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# NGA STANDARDIZATION DOCUMENT

## Portrayal Standard For Regional Topographic Data Store (RTDS) Data (2012-06-27)

### Version 1.0

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## 1 Introduction

The Regional Topographic Data Store (RTDS) data is collected in accordance with the criteria established in the RTDS Version 4.0 Entity Catalog (EC) and Extraction Guide (EG). The RTDS is focused on data collection rather than portrayal of that data. This NSG standard is intended to provide portrayal requirements for RTDS data that can be used to produce a regional derived graphic. The portrayal rules that associate geospatial feature/attribute data instances with symbol specifications are based on the RTDS Entity Catalog (EC). The symbol specifications defined in this standard provide information about symbol graphics that vendors can implement in their own systems. This NGA Portrayal Standard for RTDS Data supersedes MIL-STD-2402, Mapping, Charting, and Geodesy Symbols for Graphic Products:1995 for symbols used on the 1:250,000 scale JOG-A product.

## 2 Scope

The scope of this standard is to provide portrayal rules and graphic symbols for features in the RTDS Entity Catalog (EC). Selected attribute information on these features must also be portrayed. Portrayal information consists of portrayal rules (which associate data to symbols) and symbol specifications (that define symbols).

## 3 Conformance

This clause discusses conformance to the RTDS Symbology Standard. See Annex J for the checklist of normative conformance.

## 4 Normative references

This document references several other documents for additional information:

- a. Regional Topographic Data Store (RTDS) Entity Catalog (EC) is available from <https://nsgreg.nga.mil/doc/view?i=82081>
- b. NSG Feature Data Dictionary (NFDD)  
Copies of the document are available from <https://nsgreg.nga.mil/doc/view?i=80106>
- c. MIL-STD-2402, Mapping, Charting, and Geodesy (MC&G) Symbols for Graphic Products.
- d. MIL-STD-2410, Mapping, Charting, and Geodesy (MC&G) Reproduction and Printing
- e. MIL-J-89100, Joint Operations Graphics Series 1501A and 1501 (Jog Air/Ground)

Copies of these documents are available from: <https://assist.daps.dla.mil/quicksearch/>

f. Pantone Colors

Information on Pantone colors are available at <http://www.pantone.com>

g. U.S. Department of Defense Standard Printing Color Catalog for Mapping, Charting, Geodetic Data and Related Products.

h. NGA DBGI Color.doc; February 8, 2008.

## 5 Terms and definitions

### Area - Fill

A fill screen or pattern depicted within a surface symbol.

### Area – Pattern (AP)

A unique and continuous graphic pattern depicted within a surface symbol. Area patterns applicable to this standard are defined in MIL-STD-2410.

### Arrow

A symbol or component of a symbol indicating direction, or a vector.

### Attribute

A characteristic of a feature.

### Cased

Two parallel lines representing a linear feature.

### Centroid

The geometric center of the object's shape.

### Color

The quality of an object or substance with respect to light reflected by the object, usually determined visually by measurement of hue, saturation, and brightness of the reflected light; saturation or chroma; hue.

### Color Token

A name by which a color is known. Color tokens are associated with different colors optimized for the viewing condition, such as red light readable, or blue-green light readable.

### Dash Spacing

The distance between two consecutive dashes.

### Distance between lines/line spacing

Distance measured from closest edges of two lines.

### Feature

An abstraction of a real world phenomenon.

**Fill**

The appropriate color or pattern depicted within or overprinting the symbol.

**Label**

Labels consist of a variety of terminology and abbreviations, descriptive, or identifying, that are either free-standing (geographic names, text description), or directly associated with a graphic symbol (point, curve, surface).

**Leader line**

A line leading from a location point or symbol to the supporting information or text label.

**Lineweight**

The thickness of a line (in millimeters) measured between outside edges.

**Line Fill**

A line pattern (LP) depicted within the bounding outlines of a surface symbol.

**Line Pattern (LP)**

A unique and continuous graphic pattern depicted within a surface symbol. Line patterns applicable to this standard are defined in MIL-STD 2410.

**Line Style**

A group of parameters (e.g. lineweight, color, dash length, dash spacing) which defines the appearance of the symbology (or portion of a symbology) applied to a linear element.

**Lower case**

All letters of a word or words are in lower case text. All numbers are considered lower case text in this standard.

**Mixed case**

The first letter in the first word entry is a capital letter, followed by all lower case text.

**Open**

A paper white fill (essentially a mask) is applied to symbols to prevent the portrayal of underlying patterns and/or tints. For example, a Tower within a Built-up Area would mask out the underlying screen.

**Open circle**

A circle whose dimensions are measured across the circle, outside perimeter edge to outside perimeter edge.

**Open square**

A square whose dimensions are measured across the square, outside perimeter edge to outside perimeter edge.

**Origin (of symbol)**

The place on a symbol that corresponds to the geographic location of the object it represents.

**Perimeter**

The limits of an areal feature as centered on the peripheral edge of that feature.

Portrayal

The presentation of information to users.

Portrayal catalogue

A collection of all defined portrayals.

Portrayal rule

A rule that is applied to the feature to determine which portrayal specification to use.

Portrayal specification

A collection of operations applied to the feature instance to portray it.

Screen

A regular pattern of dots, defined by a predetermined percentage (100% being solid) used to create tones of a given color.

Shape

A unique graphic symbol with a fixed geometry and used primarily for point features. Shape specifications are defined in Annex H.

Symbol

An object that represents information.

Symbol element

A component of a symbol. A symbol can be comprised of one symbol element or multiple symbol elements.

Symbol parameter

Basic drawing instructions needed to construct the symbol graphic.

Tick

A short line located at specific intervals along a linear symbol and normally positioned perpendicular to that line.

Tick interval

Distance between the centers of each repeating tick or set of ticks along a line.

Tick spacing

Distance between the centers of each tick in a set of two or more ticks.

Type

The letters, numbers, diacritics, etc, associated with labels.

Type size

The size of type, measured in point size.

Type style

Specifications on capitalization, and appearance of the type, such as normal, light, bold, italic and condensed.

**Upper case**

All letters of a word or words are in capital letters.

**Wingtick**

A short angular tick located at the endpoint of a linear or point symbol.

## **6 Symbol Requirements**

### **6.1 RTDS Symbols**

This standard provides a listing of symbols for the portrayal of Regional Topographic Data Store (RTDS) data on regional derived graphics. The portrayal information is presented in Annex A. Subsequent Annexes provide additional supporting information and are described in the following sections. This standard also includes symbols for several features not included in the RTDS Entity Catalog (EC) and/or Extraction Guide (EG) that are required for regional derived graphics symbolization, including aeronautical information, boundaries information, elevation contours, spot elevations and maritime features.

#### **6.1.1 Symbol Information**

The Symbol Information section describes in detail the symbol graphic elements. Included is a graphic representation, descriptive name, placement instructions, an indication whether labeling is required (yes/no), element parameters including dimension information, color, etc. as well as details regarding how the symbol is constructed as a group.

The “*Apply Label to Symbol?*” field contains either a Yes or No value. A No value indicates that the symbol instance does not require any label to be placed. A Yes value indicates that this symbol is a candidate for labeling. The label information can be found by referencing the label information section provided for each symbol.

A symbol may be composed of one or more symbol elements. For each symbol element, the following information is provided.

- Element Name - A short, descriptive name for the symbol graphic.
- Element Reference – A unique element identifier for each symbol in the RTDS Symbol Standard.
- Element Type – Identifies whether the symbol is an area, line, or point symbol. The types may be further detailed as Line-Complex, Point-Simple, etc. Descriptions of these element types are provided in subsequent paragraphs.
- Description – A textual description of the element.
- Color Token – A name describing the color to apply to the symbol element.
- Parameters – The specifications for the symbol element. Specific information is dependent on what type of symbol element is involved.

The Parameters section provides the basic instructions needed to construct the symbol graphic. These parameters are specified at the element level. The following standard element parameters are used to specify the various elements of the symbol graphic.

Point – Simple

- Lineweight
- Length
- Diameter
- Headline
- Wingtick
- Orientation
- Note

Point – Shape – See Annex H for detailed drawing instructions for shapes

- Note

Point – Complex

- Point 1 Name
- Point 2 Name
- Note

Line – Simple

- Lineweight
- Note

Line – Styled

- Lineweight
- Dash Length
- Dash Spacing
- Dash2 Length
- Dash2 Spacing
- Dash3 Length
- Dash3 Spacing
- Note

Line – Complex

- Line Style
- Line Style 2
- Line Style 3
- Line Style 4
- Fix at Start
- Fix at Center
- Fix at End
- Repeating Point
- Repeating Point Interval
- Repeating Point 2
- Repeating Point 2 Interval
- Repeating Point 3
- Repeating Point 3 Interval
- Repeating Point 4
- Repeating Point 4 Interval
- Note

Area – Fill

- Screen Angle
- Note

Area – Pattern

- Color Token
- Area Pattern
- Note

Area – Complex

- Area Pattern 1
- Area Pattern 2
- Note

Many symbols are constructed by composing several different standard element parameters. Where different colored elements are overprinted to obtain the desired effect, a “painter’s model” is used to specify the symbol. In the painter’s model, the element specified first will be overwritten by elements that follow. For example, a multi-lane, cased road symbol with a median: LN\_Road\_AllWeather\_HardSurface\_Usable\_Median\_MultipleLanes is specified by a thick black line, overprinted with a less thick dark brown line, followed by another thin black line. The painter’s model in this standard is intended only to describe the symbol. A different implementation may be required for actual map production. In lithographic printing, for example, the thick black line would obscure anything else printed on top of it.

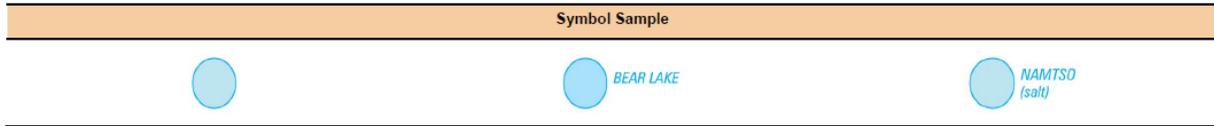
### 6.1.2 Symbol Graphic

| Symbol Information                                                                                     |                                                                                                                                                                                                                                                                                                                                       |                              |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                     | Symbol Graphic Name: LN_Road_AllWeather_HardSurface_Usable_Median_MultipleLanes                                                                                                                                                                                                                                                       |                              |
|                                                                                                        | Apply Label to Symbol: Yes                                                                                                                                                                                                                                                                                                            |                              |
|                                                                                                        | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                        |                              |
| Element Name: Road_HardSurface_Usable_Median_MultipleLanes                                             | Element Reference: L00160                                                                                                                                                                                                                                                                                                             | Element Type: Line - Complex |
| Description: Black 1.0mm Solid Line, Dk-Brown1815 0.6mm Solid Line and Black 0.1mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                       |                              |
| Color Token: Dk-Brown1815                                                                              | <b>Parameters:</b><br>Line Style: Black_1.0mmSolidLine<br>Line Style 2: Dk-Brown1815_0.6mmSolidLine<br>Line Style 3: Black_0.1mmSolidLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 1.0mm Solid Line, (2):Dk-Brown1815 0.6mm Solid Line, Top (3):Black 0.1mm Solid Line |                              |
| Element Name: Black_1.0mmSolidLine                                                                     | Element Reference: L00158                                                                                                                                                                                                                                                                                                             | Element Type: Line - Simple  |
| Description: Black 1.0mm Solid Line (1.0mm wt)                                                         |                                                                                                                                                                                                                                                                                                                                       |                              |
| Color Token: Black                                                                                     | <b>Parameters:</b><br>Lineweight: 1.0mm                                                                                                                                                                                                                                                                                               |                              |
| Element Name: Dk-Brown1815_0.6mmSolidLine                                                              | Element Reference: L00159                                                                                                                                                                                                                                                                                                             | Element Type: Line - Simple  |
| Description: Dk-Brown1815 0.6mm Solid Line (0.6mm wt)                                                  |                                                                                                                                                                                                                                                                                                                                       |                              |
| Color Token: Dk-Brown1815                                                                              | <b>Parameters:</b><br>Lineweight: 0.6mm                                                                                                                                                                                                                                                                                               |                              |
| Element Name: Black_0.1mmSolidLine                                                                     | Element Reference: L00007                                                                                                                                                                                                                                                                                                             | Element Type: Line - Simple  |
| Description: Black 0.1mm Solid Line (0.1mm wt)                                                         |                                                                                                                                                                                                                                                                                                                                       |                              |
| Color Token: Black                                                                                     | <b>Parameters:</b><br>Lineweight: 0.1mm                                                                                                                                                                                                                                                                                               |                              |

Sample Symbol Information and drawing instructions from Annex A

Each symbol in this standard is shown with a graphic. The graphic is intended to give a general representation of the symbols appearance in order to aid in understanding the drawing instructions in the symbol parameters. Many of the graphics are shown in an enlarged size compared to what would appear on a map/graphic. This enlargement was made in order to

make the components of the symbol graphic more visible. This standard also provides symbol samples at the 1:250,000 map scale. The first graphic is a sample of the basic symbol as it would appear on a map. The second and third graphics show possible label examples associated with the symbol.



### 6.1.3 Symbol Portrayal Rules

The Symbol Portrayal Rules section directly follows the Symbol Information parameters in the Annex and provides the portrayal rule information for the selection of the preceding symbol graphic. Portrayal rules are rules that indicate the condition in which the symbol is selected. They associate an instance of geospatial data with a particular symbol. Attributes included in the Criteria field are based on the RTDS EC and appear in all upper case. The Definitions of the entities and attributes in the RTDS EC are based on the NSG Feature Data Dictionary (NFDD).

| Symbol Portrayal Rules |                                           |                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                               | Criteria                                                                                                                                                                                                                                                                  |
| R003329                | Pipeline / on surface / not water (curve) | (LOC = 44 [On Surface] or LOC = -999999 [No Information]) and (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 146 [Heating Steam and/or Water] or PPO = 999 [Other] or PPO = -999999 [No Information]) |

#### Sample symbol portrayal rule from Annex A

The Criteria column is populated indicating that specific attribute conditions are required for that particular symbol to be associated with a particular feature instance. A special criteria of ALL has been created. The ALL criteria indicate that all instances of the entity class will receive the symbol.

| Symbol Portrayal Rules |                      |          |
|------------------------|----------------------|----------|
| Rule Ref               | Description          | Criteria |
| R003600                | Port / all (surface) | ALL      |

#### Sample symbol portrayal rule from Annex A (ALL Criteria column)

When an entity delineation has more than one possible symbol (e.g. linear roads, point buildings, etc.), then more than one rule will exist for the entity delineation. An entity instance should match one and only one criteria.

| Symbol Information                                                                |                                                                                                |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: LN_Cyan_River_Perennial                                                   |                             |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                             |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                             |
| Element Name: Cyan_0.2mmSolidLine                                                 | Element Reference: L00015                                                                      | Element Type: Line - Simple |
| Description: Cyan 0.2mm Solid Line (0.2mm wt)                                     |                                                                                                |                             |
| Color Token: Cyan                                                                 | Parameters:<br>Lineweight: 0.2mm                                                               |                             |

| Symbol Portrayal Rules |                           |                                                                     |
|------------------------|---------------------------|---------------------------------------------------------------------|
| Rule Ref               | Description               | Criteria                                                            |
| R003204                | River / perennial (curve) | (ZI024_HYP = 1 [Perennial] or ZI024_HYP = -999999 [No Information]) |

| Symbol Information                                                                |                                                                                                |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: LN_Cyan_River_IntermittentDry                                             |                             |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                             |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                             |
| Element Name: Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                  | Element Reference: L00041                                                                      | Element Type: Line - Styled |
| Description: Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)             |                                                                                                |                             |
| Color Token: Cyan                                                                 | Parameters:<br>Lineweight: 0.2mm      Dash Length: 2.0mm      Dash Spacing: 0.5mm              |                             |

| Symbol Portrayal Rules |                                   |                                                       |
|------------------------|-----------------------------------|-------------------------------------------------------|
| Rule Ref               | Description                       | Criteria                                              |
| R003205                | River / intermittent, dry (curve) | (ZI024_HYP = 2 [Intermittent] or ZI024_HYP = 4 [Dry]) |

Sample of multiple symbols and rules for an entity class from Annex A

The syntax utilized in the portrayal rule is based on the Structured Query Language (SQL) and thereby is easily interpreted by implementation software applications. Descriptions for the enumerated code list values have been included in brackets to assist the reader.

The symbol portrayal parameters are defined as follows:

- Rule Reference – Static Unique identifier associated with the rule. Used to link the entry to entries in other Annexes.
- Description – Textual description of the portrayal rule.
- Criteria – Attribute information that identifies the specific symbol. This combined with the feature and delineation will associate a particular symbol to an instance of RTDS geospatial data.

The Symbol Rule Criteria is based on SQL syntax. Attribute names are indicated by all upper case text such as PCF, ZI024\_HYP, FFN, etc. Operators are generally defined as follows:

|    |                       |
|----|-----------------------|
| =  | is equal              |
| <> | is not equal          |
| >  | greater than          |
| <  | less than             |
| >= | greater than or equal |
| <= | less than or equal    |

## Other syntax operators

|     |                                                          |
|-----|----------------------------------------------------------|
| ( ) | used to group like attributes or indicate precedence     |
| or  | indicates true if at least one of the conditions is true |
| and | indicates true if all conditions are true                |

## Do Not Portray

This section identifies entities in the RTDS dataset which are not intended to be portrayed on the RTDS product.

- Aircraft Hanger
- Aquifer
- Camp Site
- Caravan Park
- Crop Land
- Crossing
- Culvert
- Cut
- Depression
- Desert
- Fish Weir
- Hardened Aircraft Shelter
- Mobile Home Park
- Motor Vehicle Station
- Pipeline Crossing Point
- Prepared Watercourse Crossing
- Roadside Rest Area
- Sharp Curve
- Shed
- Steep Grade
- Stopway
- Surface Bunker
- Swimming Pool
- Transportation Block
- Trans Route Character Change
- Underground Bunker
- Vehicle Barrier
- Weigh Station

### 6.1.4 Vertical Obstructions

Any feature with a height greater than or equal to 46 meters (HGT  $\geq$  46) is symbolized as a vertical obstruction. The vertical obstruction symbols replace the normal symbol for the feature and therefore do not appear as individual symbols in Annex A.

This section identifies entities in the RTDS dataset which are only to be portrayed on the RTDS product as a vertical obstruction.

- Amusement Park Attraction
- Billboard
- Blast Furnace
- Bridge Superstructure
- Bridge Tower
- Building Superstructure
- Catalytic Cracker
- Excavating Machine
- Flagpole
- Gantry
- Grandstand
- Hopper
- Light Support Structure
- Mine Shaft Superstructure
- Mineral Pile
- Mooring Mast
- Non Building Structure
- Outdoor Theatre Screen
- Parking Garage
- Pylon
- Scoreboard
- Tethered Balloon

### 6.1.5 Color

A particular symbol may be a single color, or composed of multiple colors. Labels are generally specified in one color. Colors can be specified using several methodologies.

- U.S. Department of Defense Standard Printing Color Catalog for Mapping, Charting, Geodetic Data and Related Products, referred to as “SPC” is a methodology used in the U.S DOD to specify spot colors, which are unique mixtures of inks. MIL-STD-2402 uses SPC color specifications.
- Pantone colors – Pantone colors are commonly used in the printing industry and are based on specific mixes of inks. They are sometimes referred to as “spot” colors. Each pantone color has an identifier assigned to it.

- CMYK – Identifies the percentage of Cyan, Magenta, Yellow and Black (key) that is used to generate a specific color in process lithographic printing. Process printing allows a wide variety of colors to be produced from these three primary colors and the black.
- RGB – Red, Green, Blue is a common methodology for specifying colors on digital displays, giving the intensity of the respective color guns on a CRT monitor. Each color intensity ranges from 0 to 255. Color is additive, so 0 is no color, and 255 is maximum color.

The Color Token definitions utilized for this standard are provided in Annex C. This Annex provides a mapping from a specific color token to Pantone color names, to the MIL-STD-2402 based SPC Ink colors, to CMYK values and to RGB values. This mapping allows considerable flexibility in specifying equivalent colors in a variety of methodologies.

Color tokens are used to specify generic names of colors for symbol elements. Color tokens can be replaced with different tokens if maps for different viewing conditions are needed. For example, different viewing conditions may be red light readable, or blue/green light readable. The use of a Color Token methodology provides for the greatest degree of flexibility at implementation to provide for an easy adaptation to various color needs. It further allows for colors to be defined by the software applications as necessary to fulfill product requirements.

Colors in Annex A and Annex D are specified for each symbol element by Color Token. Annex C provides a listing of Pantone colors, CMYK values and RGB values that are applicable to the RTDS product. The color token values used in this Standard can be mapped to this table to determine the CMYK and RGB values.

When exchanging RTDS digital files of finished map products in Portable Document Format (PDF), it is important to note that specifying colors using the spot color channels in the PDF allows for much greater flexibility in the lithographic printing of the map. If colors are specified only in CMYK, then four-color process printing is the only printing option available and printing for red or green light readability may not be possible.

## 6.2 RTDS Label Information

Labeling can be used to identify or assist in identification of the meaning of symbols, and also may supply additional information about the feature being portrayed. Labeling requirements for symbols are identified in the symbol specification for each symbol.

| Label Information                                                 |                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / usable / concrete, masonry (surface)<br>(PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                            |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA]<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                    |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / usable / other (surface)<br>(PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                                             |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [MCC]<br>1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / construction / concrete, masonry (surface)<br>(PCF = 1 [Construction]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                                                  |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] *(construction)*<br>1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                     |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / construction / other (surface)<br>(PCF = 1 [Construction]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                                                                   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [MCC] *(construction)*<br>1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                             |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / concrete, masonry / not usable (surface)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] *(not usable)*<br>1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                       |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Dam / not usable / other (surface)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [MCC] *(not usable)*<br>1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                               |
| Symbol Sample                                                     |                                                                                                                                                                                                                                                                                               |
| _____                                                             | Yorkville Dam                                                                                                                                                                                                                                                                                 |
| _____                                                             | Brick                                                                                                                                                                                                                                                                                         |

Sample label information from Annex A

The labeling information is presented in the following order:

- Label Description – Textual description of the label placement rule.
- Additional Labeling Criteria – Criteria to further refine the label placement. This is in addition to the symbol portrayal rule.
- Label string – The content of the label, which can be fixed text, variable label portraying attribute, varying label derived from attribute, or a combination of these. Each label is listed in sequence.

- Characteristics – A type style code for each label in the label string in sequence. This is followed by the explanation of the code. A complete list of type characteristics codes is included in Annex D.

Labels can be of the following types:

- Fixed label – the symbol has a label, and the content of the label is fixed, for example, the label “Falls” on a Waterfall, or “Station” on a Transportation Station.
- Variable label portraying attribute – the content of the label changes, depending on attribute information being portrayed. An example would be showing the product type [ZI014\_PPO] label on a Facility / refinery, such as “petroleum”, “gas”, “sugar”, etc. Another example would be to show the name of a feature [ZI005\_FNA] as a label, for example, “Yellowstone National Park”.
- Variable label derived from attribute – the content of a label changes based on the attribute information, but the text of the label is not the attribute value. An example would be a mine type [MZN] of 8 - Peatery being labeled “Peat cuttings”.
- Combination – a series of labels of the various types listed above.

Note that in some cases, the text string may have to be modified depending on whether attribute information is portrayed. For example, if a label string is made up of a variable or attribute based element and a static element, then it wouldn't make sense to have the label “No Information” for the variable portion. In these cases, the variable portion should be omitted rather than place the label containing an attribute based portion such as “No Information” out on the product.

Note that some attributes are not intended to be labeled. These include:

- No Information
- Other
- Not applicable

If an attribute value is -999999 or “No Information”, the label is not shown. Examples of these types of attributes are ZI005\_FNA, ZI017\_GAW, HGT, LTN, ZI006\_MEM and ZVH. See “Sample Label Information from Annex A” shown above for examples.

### 6.3 Text Characteristics

The Text Characteristics table in Annex D contains information specific to the text characters. This information contains color, size, case, and style parameters. The parameters specified are as follows:

- Text Characteristic # - Reference to link the characteristics to the Label Information in Annex A.
- Color Token – Color Token for the text string.
- Font Style – Indication of Condensed, Light Condensed, or Regular.
- Style – Indication of **Bold** or *Italics*.
- Font Size – Point (PT) size of the text string.

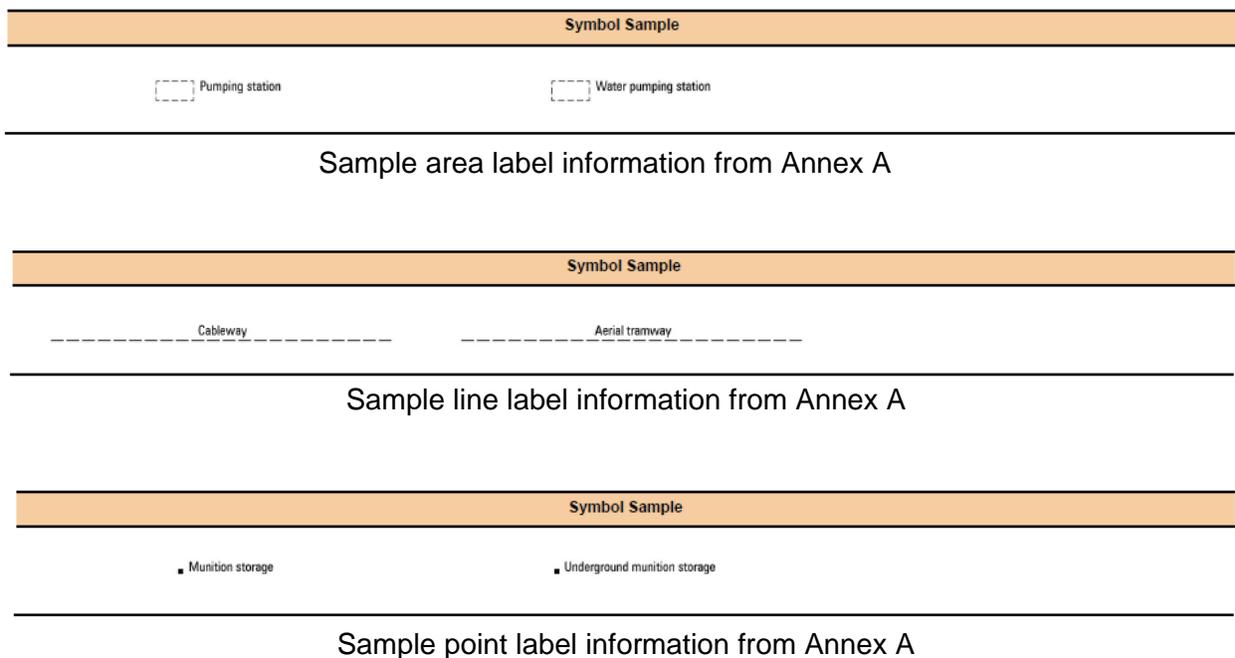
- Case – Indication of capitalization. Valid values are Upper case, Lower case, and Mixed case.

Capitalization of label information on a symbol follows the general structure below:

- The first letter is capitalized, for example, “Falls”.
- For multiple words, the first letter of the first word is capitalized, for example, “Paper mill” or “Water pumping station”.
- For names, the first letter in each word is capitalized, for example, “Yellowstone National Park”.

### 6.3.1 Type Placement

The proper selection and placement of type are of extreme importance, not only to the map user, but also because of the impact on the final appearance of the map. The sample symbols shown in Annex A provide a generic default type placement, but variation from the default may be required to resolve overprints.



See MIL-J-89100, Joint Operations Graphics (JOG) Appendix A for information on type placement typically used on JOG's.

### 6.3.2 Type Font

The TrueType Zurich font has been selected as the most appropriate font to represent the label information for the RTDS derived graphic product. The following criteria were considered in selecting the font:

- Format should be TrueType
- Must be compatible with the Windows environment
- Must be similar to Swiss742 fonts specified in the MIL-STD-2402 and MIL-STD-2410 (e.g. compatible with the colors, sizes, styles)
- Cost of the purchase of commercial fonts
- All the diacritic marks must be supported
- Extendable (must be possible to add new characters)

The analysis concluded that the standard should not be too rigid regarding the use of one or another font. Nevertheless, for avoiding problems with the diacritical marks, the best choice is to use commercial fonts of recognized brand. These have Unicode codification and, in general, support all the current idiomatic characters.

Secondly, the analysis included not only TrueType but also OpenType because to choose one font in particular would lead to extra cost depending on the national mapping work flow. Therefore, the standard should be as flexible as possible.

OpenType will likely become the standard in the near future, given that OpenType has greater capabilities in complex writings (languages), extendable and advanced typography (kerning, and so on). However, some national mapping work flows are not yet fully compatible with the OpenType fonts. An example of this is what happens with the PDF/X standard. The fonts used in the document must be embedded in it, including the metric and the codification's data. Under the 1.6 version, the OpenType fonts are not accepted by the PDF format.

The Swiss742 font is one of the "sans serif" style type. The first step was to look for any commercial font available similar to the Swiss742 being, at least, TrueType specification. The digital format of the font was not available so the MIL-STD-2410 in PDF version was utilized for comparison. The main brands like Bitstream/Corel, Monotype and Linotype were taken into account. Even though the criterion of the MIL-STD-2410 was to choose a single font, it was determined that the output for paper maps is better if a set of diverse fonts is used. These are TrueType fonts and they produce a good balance of functionality and aesthetics.

Nevertheless, on the basis of these, a set of compatible or equivalent fonts can be established, and the producers may use them at will. Conversion tables must be as flexible and extendable as possible. *Table 1 Font Mapping* provides a mapping from the Swiss742 to Zurich and Univers TrueType fonts.

**Table 1 – Font Mapping**

| Font      | Style                         | To Zurich BT | Style                         | To Univers         | Style                         |
|-----------|-------------------------------|--------------|-------------------------------|--------------------|-------------------------------|
| Swiss 742 | <i>Regular (Medium)</i>       | Zurich BT    |                               | Univers® 55        | Roman                         |
|           | <i>Italic</i>                 |              | <i>Italic</i>                 |                    | <i>Roman Oblique</i>          |
|           | <b>Bold</b>                   |              | <b>Bold</b>                   | <b>Univers® 65</b> | <b>Bold</b>                   |
|           | Condensed                     |              | Condensed                     | Univers® 57        | Condensed                     |
|           | <b>Bold Condensed</b>         |              | <b>Bold Condensed</b>         | <b>Univers® 67</b> | <b>Bold Condensed</b>         |
|           | Light Condensed               |              | Light Condensed               | Univers® 47        | Light Condensed               |
|           | <i>Light Condensed Italic</i> |              | <i>Light Condensed Italic</i> |                    | <i>Light Condensed Italic</i> |

## 6.4 Masking

In the Portrayal Standard for Regional Topographic Data Store (RTDS) Data, there are a number of symbols which could be interpreted as having "open" areas such that underlying symbols would show through the "open" portions of the symbol. Some sample symbols are the PT\_Blue072\_Navaid\_Other (Annex A), LN\_Cyan\_Aqueduct\_WithQanats (Annex A), PT\_Black\_ArcheologicalSite (Annex A), LN\_Black\_Bridge\_DrawLift (Annex A), PT\_Black\_Health\_Office (Annex A), PT\_Black\_TransportationStation (Annex A), or PT\_Cyan\_StorageTank\_Water (Annex A). This listing is not an exhaustive listing, but a small sampling of symbols. In each of the symbols listed, there is an "open" or paper-white area within the bounds of the symbol. It is intended that underlying symbology such as vegetation not show through these openings, but rather that the symbol "mask out" underlying symbols all the way down to the paper.

## **Annex A – RTDS Symbols (normative)**

### **RTDS Symbols**

RTDS symbols and portrayal rules are specified in the Annex A. This information is sorted alphabetically by Entity Name (NAS AlphaCode). A cross reference to NFDD-like Code and specific page locations are provided in the Index (see Annex L).

**RTDS Symbols**

**Administrative\_Boundary (FA000 - Boundary Data Store)**

Curve

| Symbol Information                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                 | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_AdminBoundary_International                                                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                      |  |
| <b>Element Name:</b> Dk-Brown1815-54 International-Boundary   <b>Element Reference:</b> L00124   <b>Element Type:</b> Line - Complex             |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Description:</b> Black 0.5mm Dashed Line (0.5mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps) and Dk-Brown1815-54 2.0mm Screened Line overprint |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Color Token:</b> Dk-Brown1815-54                                                                                                              | <b>Parameters:</b><br><b>Line Style:</b> Black_0.5mm-7mmDash-2x2mmDashLine<br><b>Line Style 2:</b> Dk-Brown1815-54_2.0mmScreenedLine<br><b>Note:</b> Dk-Brown1815-54 screened line is centered on Black dashed line.                                                                                                                                       |  |
| <b>Element Name:</b> Black_0.5mm-7mmDash-2x2mmDashLine   <b>Element Reference:</b> L00122   <b>Element Type:</b> Line - Styled                   |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Description:</b> Black 0.5mm Dashed Line (0.5mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps)                                                   |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm <b>Dash Length:</b> 7.0mm <b>Dash Spacing:</b> 1.0mm<br><b>Dash2 Length:</b> 2.0mm <b>Dash2 Spacing:</b> 1.0mm<br><b>Dash3 Length:</b> 2.0mm <b>Dash3 Spacing:</b> 1.0mm<br><b>Note:</b> The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats. |  |
| <b>Element Name:</b> Dk-Brown1815-54_2.0mmScreenedLine   <b>Element Reference:</b> L00123   <b>Element Type:</b> Line - Simple                   |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Description:</b> Dk-Brown1815-54 2.0mm Screened Line (2.0mm wt, 60 degree angle)                                                              |                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Color Token:</b> Dk-Brown1815-54                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 2.0mm<br><b>Screen Angle:</b> 60 degrees                                                                                                                                                                                                                                                                          |  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                    |
|----------|-------------------------------------------------|---------------------------------------------|
| R003002  | Administrative Boundary / international (curve) | (LSP = 17 [Generic International Boundary]) |

**Label Information**

|                                                                   |                                                                                                                            |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Administrative Boundary / international / definite (curve)<br>(BST = 1 [Definite] or BST = -999999 [No Information])       |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNAA]<br>[Z1005_FNAB]<br>48<br>48<br>48 (Black, Condensed, Bold, 10 pt, Upper case)                                 |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Administrative Boundary / international / indefinite, in dispute (curve)<br>(BST = 2 [Indefinite] or BST = 3 [In Dispute]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNAA] [BST]<br>[Z1005_FNAB] [BST]<br>48,48<br>48,48<br>48 (Black, Condensed, Bold, 10 pt, Upper case)               |

**Symbol Sample**



**Administrative\_Boundary (FA000 - Boundary Data Store) (continued)**

Curve

| Symbol Information                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |                                  |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                        | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_AdminBoundary_OtherLineOfSeparation                                                                                                                                                                                                                                                                                        |                                  |
|                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                      |                                  |
|                                                                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                  |                                  |
| <b>Element Name:</b> Dk-Brown1815_AdminBoundary_Other                                                   |                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00254 |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line with a Dk-Brown1815-42 2.0mm Screened Line overprint |                                                                                                                                                                                                                                                                                                                                                                        |                                  |
| <b>Color Token:</b> Dk-Brown1815-42                                                                     | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.5mm-2-1-2-1-7-1DashLine<br><b>Line Style 2:</b> Dk-Brown1815-42_2.0mmScreenedLine<br><b>Note:</b> Dk-Brown1815-42 screened line is centered on Dk-Brown1815 dashed line.                                                                                                                                       |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.5mm-2-1-2-1-7-1DashLine                                             |                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00253 |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 2-2.0mm dashes, 7.0mm dash, 1.0mm gaps)   |                                                                                                                                                                                                                                                                                                                                                                        |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm<br><b>Dash Length:</b> 2.0mm<br><b>Dash2 Length:</b> 2.0mm<br><b>Dash3 Length:</b> 7.0mm<br><b>Dash Spacing:</b> 1.0mm<br><b>Dash2 Spacing:</b> 1.0mm<br><b>Dash3 Spacing:</b> 1.0mm<br><b>Note:</b> The line style is a 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 7.0mm dash, 1.0mm gap, then the pattern repeats. |                                  |
| <b>Element Name:</b> Dk-Brown1815-42_2.0mmScreenedLine                                                  |                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00126 |
| <b>Description:</b> Dk-Brown1815-42 2.0mm Screened Line (2.0mm wt. 60 degree angle)                     |                                                                                                                                                                                                                                                                                                                                                                        |                                  |
| <b>Color Token:</b> Dk-Brown1815-42                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 2.0mm<br><b>Screen Angle:</b> 60 degrees                                                                                                                                                                                                                                                                                      |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003001  | Administrative Boundary / other (curve) | (LSP = 1 [Generic Administrative Boundary] or LSP = 2 [Provisional Administrative Line] or LSP = 4 [Line of Control] or LSP = 5 [Demarcation Line] or LSP = 6 [Line of Convenience] or LSP = 8 [Convention Line] or LSP = 9 [Claim Line] or LSP = 10 [Intercolonial Line] or LSP = 11 [Interentity Line] or LSP = 12 [Line of Adjacency] or LSP = 13 [Line of Withdrawal] or LSP = 14 [Military Disengagement Line] or LSP = 15 [Treaty Line] or LSP = 999 [Other]) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Administrative Boundary / known (curve)                                                                                                                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (LSP = 2 [Provisional Administrative Line] or LSP = 4 [Line of Control] or LSP = 5 [Demarcation Line] or LSP = 6 [Line of Convenience] or LSP = 8 [Convention Line] or LSP = 9 [Claim Line] or LSP = 10 [Intercolonial Line] or LSP = 11 [Interentity Line] or LSP = 12 [Line of Adjacency] or LSP = 13 [Line of Withdrawal] or LSP = 14 [Military Disengagement Line] or LSP = 15 [Treaty Line]) |
| <b>Label String:</b>                 | [Z1005_FNAA] [LSP]<br>[Z1005_FNAB]                                                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristics:</b>              | 48,48<br>48<br>48 (Black, Condensed, Bold, 10 pt, Upper case)                                                                                                                                                                                                                                                                                                                                     |
| <b>Label Description:</b>            | Administrative Boundary / generic (curve)                                                                                                                                                                                                                                                                                                                                                         |
| <b>Additional Labeling Criteria:</b> | (LSP = 1 [Generic Administrative Boundary])                                                                                                                                                                                                                                                                                                                                                       |
| <b>Label String:</b>                 | [Z1005_FNAA] "ADMINISTRATIVE BOUNDARY"<br>[Z1005_FNAB]                                                                                                                                                                                                                                                                                                                                            |
| <b>Characteristics:</b>              | 48,48<br>48<br>48 (Black, Condensed, Bold, 10 pt, Upper case)                                                                                                                                                                                                                                                                                                                                     |
| <b>Label Description:</b>            | Administrative Boundary / other (curve)                                                                                                                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (LSP = 999 [Other]) and (Z1006_MEM <> "No Information")                                                                                                                                                                                                                                                                                                                                           |
| <b>Label String:</b>                 | [Z1005_FNAA] [Z1006_MEM]<br>[Z1005_FNAB]                                                                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 48,48<br>48                                                                                                                                                                                                                                                                                                                                                                                       |

**Administrative\_Boundary (FA000 - Boundary Data Store) (continued)**

Curve

48 (Black, Condensed, Bold, 10 pt, Upper case)

**Symbol Sample**

**LEBANON DEMARCATION LINE**



**ISRAEL**

**Symbol Information**

|                                                                                                                         |                                                                                                                                                                                                                    |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                         | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_AdminBoundary_Armistice                                                                                                                                                |                                  |                                     |
|                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                  |                                  |                                     |
|                                                                                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                              |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815-42_ArmisticeLine-Boundary                                                             |                                                                                                                                                                                                                    | <b>Element Reference:</b> L00127 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.0mm dash, 1.0mm gap) Dk-Brown1815-42 2.0mm 60 degree overprint |                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815-42                                                                                     | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5mmLenDash-1.0mmGapLine<br><b>Line Style 2:</b> Dk-Brown1815-42_2.0mmScreenedLine<br><b>Note:</b> Dk-Brown1815-42 overprint is centered on Black dashed line. |                                  |                                     |
| <b>Element Name:</b> Black_0.3mm-5mmLenDash-1.0mmGapLine                                                                |                                                                                                                                                                                                                    | <b>Element Reference:</b> L00125 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.0mm dash, 1.0mm gap)                                           |                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.0mm <b>Dash Spacing:</b> 1.0mm                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815-42_2.0mmScreenedLine                                                                  |                                                                                                                                                                                                                    | <b>Element Reference:</b> L00126 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815-42 2.0mm Screened Line (2.0mm wt, 60 degree angle)                                     |                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815-42                                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 2.0mm<br><b>Screen Angle:</b> 60 degrees                                                                                                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                      | Criteria                   |
|----------|--------------------------------------------------|----------------------------|
| R003003  | Administrative Boundary / armistice line (curve) | (LSP = 3 [Armistice Line]) |

**Label Information**

|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>Label Description:</b>            | Administrative Boundary / armistice line (curve)              |
| <b>Additional Labeling Criteria:</b> | N/A                                                           |
| <b>Label String:</b>                 | [Z1005_FNAA] "ARMISTICE LINE"<br>[Z1005_FNAB]                 |
| <b>Characteristics:</b>              | 48,48<br>48<br>48 (Black, Condensed, Bold, 10 pt, Upper case) |

**Symbol Sample**

**NORTH KOREA ARMISTICE LINE**



**SOUTH KOREA**

**Administrative\_Boundary (FA000 - Boundary Data Store) (continued)**

Curve

| Symbol Information                                                                |                                                                                                       |                                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_AdminBoundary_CeaseFire                                          |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Black_0.25mm-6mmLenDashLine                                  |                                                                                                       | <b>Element Reference:</b> L00121 |
| <b>Element Type:</b> Line - Styled                                                |                                                                                                       |                                  |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 6.0mm dash, 1.0mm gap)   |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm <b>Dash Length:</b> 6.0mm <b>Dash Spacing:</b> 1.0mm  |                                  |

| Symbol Portrayal Rules |                                              |                             |
|------------------------|----------------------------------------------|-----------------------------|
| Rule Ref               | Description                                  | Criteria                    |
| R003004                | Administrative Boundary / cease-fire (curve) | (LSP = 7 [Cease Fire Line]) |

| Label Information                                                 |                                                                           |
|-------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Administrative Boundary / cease fire (curve)<br>N/A                       |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "CEASE-FIRE LINE"<br>48<br>48 (Black, Condensed, Bold, 10 pt, Upper case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

| Symbol Information                                                                  |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_AdminBoundary_NoDefinedBoundary                       |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> Static text label only. No Graphic Parameters. |
| LINE LABEL ONLY                                                                     |                                                                                      |

| Symbol Portrayal Rules |                                                       |                                 |
|------------------------|-------------------------------------------------------|---------------------------------|
| Rule Ref               | Description                                           | Criteria                        |
| R003450                | Administrative Boundary / no defined boundary (curve) | (BST = 4 [No Defined Boundary]) |

| Label Information                                                 |                                                                                                              |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Administrative Boundary / no defined boundary (curve)<br>N/A                                                 |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNAA]<br>"NO DEFINED BOUNDARY"<br>[ZI005_FNAB]<br>21,21,21<br>21 (Black, Condensed, 8 pt, Upper case) |

**Administrative\_Boundary (FA000 - Boundary Data Store) (continued)**

Curve

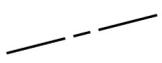
**Symbol Sample**

PAKISTAN  
NO DEFINED BOUNDARY  
INDIA

**Administrative\_Division (FA003 - Boundary Data Store)**

Surface

**Symbol Information**

|                                                                                            |                                                                                                                                                                                                                                                                           |                                  |                                    |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|           | <b>Symbol Graphic Name:</b> AR_Black_AdminDivision_Primary                                                                                                                                                                                                                |                                  |                                    |
|                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                         |                                  |                                    |
|                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. NOTE: The label is placed along the line inside the surface area aligned with the label of the adjoining surface with the same BAL attribute.             |                                  |                                    |
| <b>Element Name:</b> Black_0.3mm-7-1-2-1-2-1DashLine                                       |                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00130 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash, 2.0mm dash, 1.0mm gaps) |                                                                                                                                                                                                                                                                           |                                  |                                    |
| <b>Color Token:</b> Black                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 7.0mm <b>Dash Spacing:</b> 1.0mm<br><b>Dash2 Length:</b> 2.0mm <b>Dash2 Spacing:</b> 1.0mm<br><b>Note:</b> The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats. |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                |
|----------|---------------------------------------------|-------------------------|
| R003005  | Administrative Division / primary (surface) | (BAL = 1 [First-order]) |

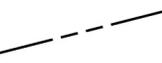
**Label Information**

**Label Description:** Administrative Division / primary (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 21  
 21 (Black, Condensed, 8 pt, Upper case)

**Symbol Sample**

----- NORTHERN TERRITORY -----  
 ----- SOUTHERN TERRITORY -----

**Symbol Information**

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                    |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|             | <b>Symbol Graphic Name:</b> AR_Black_AdminDivision_Secondary                                                                                                                                                                                                                                                                                              |                                  |                                    |
|                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                         |                                  |                                    |
|                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. NOTE: The label is placed along the line inside the surface area aligned with the label of the adjoining surface with the same BAL attribute.                                                                                             |                                  |                                    |
| <b>Element Name:</b> Black_0.3mm-7-1-2-1-2-1DashLine                                           |                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00252 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps) |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                    |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.3m <b>Dash Length:</b> 7.0mm <b>Dash Spacing:</b> 1.0mm<br><b>Dash2 Length:</b> 2.0mm <b>Dash2 Spacing:</b> 1.0mm<br><b>Dash3 Length:</b> 2.0mm <b>Dash3 Spacing:</b> 1.0mm<br><b>Note:</b> The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats. |                                  |                                    |

**Administrative\_Division (FA003 - Boundary Data Store) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                 |
|----------|-----------------------------------------------|--------------------------|
| R003006  | Administrative Division / secondary (surface) | (BAL = 2 [Second-order]) |

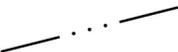
**Label Information**

**Label Description:** Administrative Division / secondary (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 21  
 21 (Black, Condensed, 8 pt, Upper case)

**Symbol Sample**

----- COBB -----  
 ----- FULTON -----

**Symbol Information**

|                                                                                                                            |                                                                                                                                                                                                                                                               |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                           | <b>Symbol Graphic Name:</b> AR_Black_AdminDivision_Tertiary                                                                                                                                                                                                   |                                  |                                     |
|                                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                             |                                  |                                     |
|                                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. NOTE: The label is placed along the line inside the surface area aligned with the label of the adjoining surface with the same BAL attribute. |                                  |                                     |
| <b>Element Name:</b> Black_AdminDivision-Tertiary                                                                          |                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00134 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash) and 0.4mm Filled Dot (repeating 3 total) each gap 1.5mm |                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                  | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-7mmLenDash<br><b>Repeating Point:</b> Black_0.4mmFilledDot<br><b>Repeating Point Interval:</b> 1.5mm<br><b>Note:</b> Repeating pattern is a 7.0mm dash followed by 3 dots with each gap 1.5mm.           |                                  |                                     |
| <b>Element Name:</b> Black_0.3mm-7mmLenDash                                                                                |                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00133 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash)                                                         |                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 7.0mm                                                                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Black_0.4mmFilledDot                                                                                  |                                                                                                                                                                                                                                                               | <b>Element Reference:</b> P00082 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.4mm diameter filled circle                                                                     |                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                  | <b>Parameters:</b><br><b>Diameter:</b> 0.4mm                                                                                                                                                                                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                  | Criteria                |
|----------|----------------------------------------------|-------------------------|
| R003007  | Administrative Division / tertiary (surface) | (BAL = 3 [Third-order]) |

**Label Information**

**Label Description:** Administrative Division / tertiary (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 21  
 21 (Black, Condensed, 8 pt, Upper case)

**Administrative\_Division (FA003 - Boundary Data Store) (continued)**

Surface

Symbol Sample



**Aerial (AT011)**

Point

Symbol Information

|                                                                                                                |                                                                                                                  |                                  |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Aerial                                                                      |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                 |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                      |                                  |
| <b>Element Name:</b> Black_Communication_Tower                                                                 |                                                                                                                  | <b>Element Reference:</b> P00155 |
| <b>Description:</b> Black communication tower                                                                  |                                                                                                                  |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Note: See Element: Black_Communication_Tower in Annex H for detailed drawing instructions. |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                      | Criteria   |
|----------|----------------------------------|------------|
| R003451  | Aerial / non-obstruction (point) | (HGT < 46) |

Symbol Sample



**Aerial\_Farm (AT012)**

Surface

Symbol Information

|                                                                                                                  |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_AerialFarm                                                                 |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                        |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003453  | Aerial Farm / all (surface) | ALL      |

Label Information

**Label Description:** Aerial Farm / all (surface)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** "Aerial farm"  
**Characteristics:** 1

**Aerial\_Farm (AT012) (continued)**

Surface

1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

| Symbol Information                                                                                             |                                                                       |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_AerialFarm                       |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Length: 0.8mm<br>Note: Square is filled         |                                  |

| Symbol Portrayal Rules |                           |          |
|------------------------|---------------------------|----------|
| Rule Ref               | Description               | Criteria |
| R003454                | Aerial Farm / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Aerial Farm / all (point)                   |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Aerial farm"                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Aerodrome\_Beacon (GB013 - Aeronautical Data Store)**

Point

| Symbol Information                                                                                               |                                                                                                       |                                  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Beacon                                                         |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                   |                                  |
| <b>Element Name:</b> Blue072_Beacon                                                                              |                                                                                                       | <b>Element Reference:</b> P00025 |
| <b>Description:</b> Blue072 5-pointed filled star with an open circle in the center                              |                                                                                                       |                                  |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br>Note: See Element: Blue072_Beacon in Annex H for detailed drawing instructions. |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Aerodrome\_Beacon (GB013 - Aeronautical Data Store) (continued)**

Point

R003679 Aerodrome Beacon / all (point) ALL

**Label Information**

**Label Description:** Aerodrome Beacon / flashing (point)  
**Additional Labeling Criteria:** (CHA = 1 [Alternating] or CHA = 4 [Ultra Quick-flashing] or CHA = 6 [Fixed and Flashing] or CHA = 8 [Flashing] or CHA = 11 [Interrupted Quick-flashing] or CHA = 12 [Interrupted Ultra Quick-flashing] or CHA = 13 [Interrupted Very Quick-flashing] or CHA = 14 [Isophase] or CHA = 15 [Long-flashing] or CHA = 16 [Morse Code] or CHA = 17 [Occulting] or CHA = 28 [Group Quick-flashing] or CHA = 29 [Group Very Quick-flashing] or CHA = 44 [Quick-flashing] or CHA = 45 [Very Quick-flashing] or CHA = 46 [Flashing with Long-flash] or CHA = 47 [Occulting Flashing] or CHA = 48 [Fixed Long-flashing] or CHA = 49 [Occulting Alternating] or CHA = 50 [Long-flashing Alternating] or CHA = 51 [Flashing Alternating] or CHA = 57 [Quick-flashing with Long-flash] or CHA = 58 [Very Quick-flashing with Long-flash] or CHA = 59 [Ultra Quick-flashing with Long-flash] or CHA = 60 [Fixed with Alternating Flashing])

**Label String:** "FL"  
**Characteristics:** 29  
 29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Aerodrome Beacon / fixed (point)  
**Additional Labeling Criteria:** (CHA = 5 [Fixed])

**Label String:** "F"  
**Characteristics:** 29  
 29 (Blue072, Condensed, 7 pt, Upper case)

**Symbol Sample**

★ FL

★ F

**Airspace (GA005 - Aeronautical Data Store)**

Surface

**Symbol Information**

|                                                                                                       |                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                    | <b>Symbol Graphic Name:</b> AR_Blue072_Airspace_ADIZ                                                                                                                                                                                                                                                            |                                  |                                     |
|                                                                                                       | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                               |                                  |                                     |
|                                                                                                       | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The AP-98 filled line is on the inside of the surface.                                                                                                                                          |                                  |                                     |
| <b>Element Name:</b> Blue072_Airspace_ADIZ                                                            |                                                                                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00278 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Blue072 0.25mm Solid Line and a 2.5mm Width AP-98 (area pattern 98) Line combined |                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                           | <b>Parameters:</b><br><b>Line Style:</b> Blue072_0.25mmSolidLine<br><b>Line Style 2:</b> Blue072_2.5mm-Width-AP-98Line<br><b>Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the AP-98 filled line is offset 0.375 mm to the inside of the surface's perimeter. |                                  |                                     |
| <b>Element Name:</b> Blue072_0.25mmSolidLine                                                          |                                                                                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00276 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072 0.25mm Solid Line (0.25mm wt)                                             |                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> Blue072_2.5mm-Width-AP-98Line                                                    |                                                                                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00277 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072 2.5mm width line filled with AP-98 (area pattern 98)                      |                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 2.5mm<br><b>Note:</b> The Blue072 2.5mm width line is filled with AP-98. See Element: Blue072_AP98_Fill in Annex I                                                                                                                                                     |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                    |
|----------|---------------------------|---------------------------------------------|
| R003019  | Airspace / ADIZ (surface) | (ATY = 1 [Air Defense Identification Zone]) |

**Airspace (GA005 - Aeronautical Data Store) (continued)**

Surface

**Label Information**

**Label Description:** Airspace / ADIZ (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [NAA] "ADIZ"  
**Characteristics:** 99,99  
 99 (Blue072, Condensed, Bold, 7-20 pt, Upper case)

**Symbol Sample**

**CONTIGUOUS U.S. ADIZ**

**Symbol Information**

|                                                                                             |                                                                                                                                                                                                                                                                                              |                                  |                                     |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|            | <b>Symbol Graphic Name:</b> AR_Blue072_Airspace_SUAS                                                                                                                                                                                                                                         |                                  |                                     |
|                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                            |                                  |                                     |
|                                                                                             | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The Blue072 31% 2.5mm screened line is on the inside of the surface.                                                                                                         |                                  |                                     |
| <b>Element Name:</b> Blue072 Airspace SUAS MOA                                              |                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00296 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Blue072 0.25mm Solid Line and a 2.5mm Blue072-31 Screened Line combined |                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                 | <b>Parameters:</b><br>Line Style: Blue072_0.25mmSolidLine<br>Line Style 2: Blue072-31_2.5mmScreenedLine<br><b>Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the screened line is offset 0.375 mm to the inside of the surface's perimeter. |                                  |                                     |
| <b>Element Name:</b> Blue072_0.25mmSolidLine                                                |                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00276 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072 0.25mm Solid Line (0.25mm wt)                                   |                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                 | <b>Parameters:</b><br>Lineweight: 0.25mm                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Blue072-31_2.5mmScreenedLine                                           |                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00181 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072-31 2.5mm Screened Line (2.5mm wt)                               |                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Blue072-31                                                              | <b>Parameters:</b><br>Lineweight: 2.5mm                                                                                                                                                                                                                                                      |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria                                                                                                                                |
|----------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| R003047  | Airspace / special use (surface) | (ATY = 3 [Alert Area] or ATY = 11 [Danger Area] or ATY = 15 [Prohibited Area] or ATY = 16 [Restricted Area] or ATY = 31 [Warning Area]) |

**Label Information**

**Label Description:** Airspace / alert area (surface)  
**Additional Labeling Criteria:** (ATY = 3 [Alert Area])  
**Label String:** [F11]/(A -"[AIA]")"  
**Characteristics:** 68,68,68,68  
 68 (Blue072, Condensed, Bold, 7-30 pt, Upper case)

**Label Description:** Airspace / danger area (surface)  
**Additional Labeling Criteria:** (ATY = 11 [Danger Area])  
**Label String:** [F11]/(D -"[AIA]")"  
**Characteristics:** 68,68,68,68  
 68 (Blue072, Condensed, Bold, 7-30 pt, Upper case)

**Label Description:** Airspace / prohibited area (surface)  
**Additional Labeling Criteria:** (ATY =15 [Prohibited Area])

**Airspace (GA005 - Aeronautical Data Store) (continued)**

Surface

|                                      |                                                                   |
|--------------------------------------|-------------------------------------------------------------------|
| <b>Label String:</b>                 | [F11]/(P -"[AIA]")"                                               |
| <b>Characteristics:</b>              | 68,68,68,68<br>68 (Blue072, Condensed, Bold, 7-30 pt, Upper case) |
| <b>Label Description:</b>            | Airspace / restricted area (surface)                              |
| <b>Additional Labeling Criteria:</b> | (ATY = 16 [Restricted Area])                                      |
| <b>Label String:</b>                 | [F11]/(R -"[AIA]")"                                               |
| <b>Characteristics:</b>              | 68,68,68,68<br>68 (Blue072, Condensed, Bold, 7-30 pt, Upper case) |
| <b>Label Description:</b>            | Airspace / warning area (surface)                                 |
| <b>Additional Labeling Criteria:</b> | (ATY = 31 [Warning Area])                                         |
| <b>Label String:</b>                 | [F11]/(W -"[AIA]")"                                               |
| <b>Characteristics:</b>              | 68,68,68,68<br>68 (Blue072, Condensed, Bold, 7-30 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                            |                                                                                                                                                                                                                                                                                                            |                                     |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Blue072_Airspace_MOA                                                                                                                                                                                                                                                        |                                     |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                          |                                     |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The Blue072 31% 2.5mm screened line is on the inside of the surface.                                                                                                                       |                                     |
| <b>Element Name:</b> Blue072_Airspace_SUAS_MOA                                                             | <b>Element Reference:</b> L00296                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Blue072 0.25mm Solid Line and a 2.5mm Blue072-31 Screened Line combined                |                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Line Style:</b> Blue072_0.25mmSolidLine<br><b>Line Style 2:</b> Blue072-31_2.5mmScreenedLine<br><b>Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the screened line is offset 0.375 mm to the inside of the surface's perimeter. |                                     |
| <b>Element Name:</b> Blue072_0.25mmSolidLine                                                               | <b>Element Reference:</b> L00276                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072 0.25mm Solid Line (0.25mm wt)                                                  |                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm                                                                                                                                                                                                                                                            |                                     |
| <b>Element Name:</b> Blue072-31_2.5mmScreenedLine                                                          | <b>Element Reference:</b> L00181                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072-31 2.5mm Screened Line (2.5mm wt)                                              |                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Blue072-31                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 2.5mm                                                                                                                                                                                                                                                             |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria                                                                                  |
|----------|--------------------------|-------------------------------------------------------------------------------------------|
| R003173  | Airspace / MOA (surface) | (ATY = 25 [Military Aerodrome Traffic Zone] or ATY = 27 [Military Terminal Control Area]) |

**Label Information**

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| <b>Label Description:</b>            | Airspace / MOA (surface)                                 |
| <b>Additional Labeling Criteria:</b> | N/A                                                      |
| <b>Label String:</b>                 | [NAA]                                                    |
| <b>Characteristics:</b>              | 68<br>68 (Blue072, Condensed, Bold, 7-30 pt, Upper case) |

**Airspace (GA005 - Aeronautical Data Store) (continued)**

Surface

Symbol Sample



**Amphitheatre (AK164)**

Point

| Symbol Information                                                                                             |                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Amphitheatre                           |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

| Symbol Portrayal Rules |                            |          |
|------------------------|----------------------------|----------|
| Rule Ref               | Description                | Criteria |
| R003458                | Amphitheatre / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Amphitheatre / all (point)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Amphitheater"                              |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

Symbol Sample



**Amusement\_Park (AK030)**

Surface

| Symbol Information                                                                                               |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_AmusementPark                                                              |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Amusement\_Park (AK030) (continued)**

Surface

R003009 Amusement Park / all (surface) ALL

**Label Information**

**Label Description:** Amusement Park / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Amusement park"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Amusement park

Point

**Symbol Information**

|                                                                                                                |                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_AmusementPark                          |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria |
|----------|------------------------------|----------|
| R003459  | Amusement Park / all (point) | ALL      |

**Label Information**

**Label Description:** Amusement Park / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Amusement park"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Amusement park

**Annotated\_Location (ZD045)**

Surface

**Annotated\_Location (ZD045) (continued)**

Surface

| Symbol Information                |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Symbol Graphic<br><br>[Z1006_MEM] | Symbol Graphic Name: AR_AnnotatedLocation_Label                                |
|                                   | Apply Label to Symbol: Yes                                                     |
|                                   | Symbol Placement Instructions: Dynamic text label only. No Graphic Parameters. |
| AREA LABEL ONLY                   |                                                                                |

| Symbol Portrayal Rules |                                           |          |
|------------------------|-------------------------------------------|----------|
| Rule Ref               | Description                               | Criteria |
| R003472                | Annotated Location / black text (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Annotated Location / black text (surface)   |
| <b>Additional Labeling Criteria:</b> | (Z1006_MEM <> "No Information")             |
| <b>Label String:</b>                 | [Z1006_MEM]                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample |  |
|---------------|--|
| Numerous rigs |  |

Curve

| Symbol Information                |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Symbol Graphic<br><br>[Z1006_MEM] | Symbol Graphic Name: LN_AnnotatedLocation_Label                                |
|                                   | Apply Label to Symbol: Yes                                                     |
|                                   | Symbol Placement Instructions: Dynamic text label only. No Graphic Parameters. |
| LINE LABEL ONLY                   |                                                                                |

| Symbol Portrayal Rules |                                         |          |
|------------------------|-----------------------------------------|----------|
| Rule Ref               | Description                             | Criteria |
| R003467                | Annotated Location / black text (curve) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Annotated Location / black text (curve)     |
| <b>Additional Labeling Criteria:</b> | (Z1006_MEM <> "No Information")             |
| <b>Label String:</b>                 | [Z1006_MEM]                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Annotated\_Location (ZD045) (continued)**

Curve

Symbol Sample

Numerous road barriers

Point

Symbol Information

|                                          |                                                                                       |
|------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br>[Z1006_MEM] | <b>Symbol Graphic Name:</b> PT_AnnotatedLocation_Label                                |
|                                          | <b>Apply Label to Symbol:</b> Yes                                                     |
|                                          | <b>Symbol Placement Instructions:</b> Dynamic text label only. No Graphic Parameters. |
| POINT LABEL ONLY                         |                                                                                       |

Symbol Portrayal Rules

| Rule Ref | Description                             | Criteria |
|----------|-----------------------------------------|----------|
| R003452  | Annotated Location / black text (point) | ALL      |

Label Information

**Label Description:** Annotated Location / black text (point)  
**Additional Labeling Criteria:** (Z1006\_MEM <> "No Information")

**Label String:** [Z1006\_MEM]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

Symbol Sample

Sinkhole

**Aqueduct (BH010)**

Curve

Symbol Information

|                                                                                                                  |                                                                                                       |                                         |                                    |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Cyan_Aqueduct_OnSurface                                                |                                         |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |                                         |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                         |                                    |
| <b>Element Name:</b> Cyan_0.3mmSolidLine                                                                         |                                                                                                       | <b>Element Reference:</b> L00016        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.3mm Solid Line (0.3mm wt)                                                             |                                                                                                       |                                         |                                    |
| <b>Color Token:</b> Cyan                                                                                         |                                                                                                       | <b>Parameters:</b><br>Lineweight: 0.3mm |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                | Criteria                              |
|----------|----------------------------|---------------------------------------|
| R003011  | Aqueduct / surface (curve) | (ATC = 5 [Surface]) and (LZN >= 1500) |

Label Information

**Aqueduct (BH010) (continued)**

Curve

**Label Description:** Aqueduct / usable / on surface (curve)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** "Aqueduct"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Aqueduct / construction / on surface (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "Aqueduct (construction)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Aqueduct / not usable / on surface (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "Aqueduct (not usable)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**

*Aqueduct*

*Aqueduct (construction)*

**Symbol Information**

|                                                                                                                      |                                                                                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                   | <b>Symbol Graphic Name:</b> LN_Cyan_Aqueduct_AboveSurface                                                                                                                                                                         |                                  |                                     |
|                                                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                 |                                  |                                     |
|                                                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Point symbols are added at each end.                                                                                        |                                  |                                     |
| <b>Element Name:</b> Cyan_Aqueduct / Penstock                                                                        |                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00106 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.3mm Solid Line with 'V' (0.3mm wt, 0.7mm long)                                            |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.3mmSolidLine<br><b>Fix at Start:</b> Cyan_0.3mm-0.9mmLenV<br><b>Fix at End:</b> Cyan_0.3mm-0.9mmLenV<br><b>Note:</b> Origin: Apex of 'V' touches line ends with ticks facing away |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mmSolidLine                                                                             |                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00016 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Cyan 0.3mm Solid Line (0.3mm wt)                                                                 |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                            |                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <span style="float: right;"><b>Length:</b> 0.9mm</span><br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees        |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                            |                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <span style="float: right;"><b>Length:</b> 0.9mm</span><br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees        |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Aqueduct (BH010) (continued)**

**Curve**

R003012 Aqueduct / raised (curve) (RLE = 1 [Raised] or SBB = 1001 [True] and (LZN >= 1500)

**Label Information**

**Label Description:** Aqueduct / usable / raised (curve)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** "Aqueduct"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Aqueduct / construction / raised (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "Aqueduct (construction)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Aqueduct / not usable / raised (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "Aqueduct (not usable)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                     |                                                                                                       |                                  |                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Aqueduct_BelowGround                                              |                                  |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                    |
| <b>Element Name:</b> Cyan_0.3mm-1mmLenDash-0.5mmGapLine                             |                                                                                                       | <b>Element Reference:</b> L00235 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Cyan 0.3mm Dashed Line (0.3mm wt, 1.0mm dash, 0.5mm gap)        |                                                                                                       |                                  |                                    |
| <b>Color Token:</b> Cyan                                                            | <b>Parameters:</b>                                                                                    | <b>Dash Length:</b> 1.0mm        | <b>Dash Spacing:</b> 0.5mm         |
|                                                                                     | <b>Lineweight:</b> 0.3mm                                                                              |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                                  |
|----------|--------------------------------|-------------------------------------------|
| R003013  | Aqueduct / underground (curve) | (ATC = 3 [Underground]) and (LZN >= 1500) |

**Label Information**

**Label Description:** Aqueduct / usable / underground (curve)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** "Aqueduct"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Aqueduct / construction / underground (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "Aqueduct (construction)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Aqueduct (BH010) (continued)**

Curve

**Label Description:** Aqueduct / not usable / underground (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** "Aqueduct (not usable)"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                                           |                                                                                                                                                                                                                                                 |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                                                                           | <b>Symbol Graphic Name:</b> LN_Cyan_Aqueduct_WithQanats                                                                                                                                                                                         |                                  |                                     |
|                                                                                                                                                                           | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                |                                  |                                     |
|                                                                                                                                                                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                           |                                  |                                     |
| <b>Element Name:</b> Cyan_Aqueduct_with_Qanats                                                                                                                            |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00249 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with repeating Cyan open circles (0.15mm wt, 1.0mm diameter, paperwhite fill) along the line |                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                  | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.2mm-1mmLenDash-0.5mmGapLine<br><b>Fix at Start:</b> Cyan_1.0mmOpenCircle<br><b>Repeating Point:</b> Cyan_1.0mmOpenCircle<br><b>Repeating Point Interval:</b> 6.0mm spacing between open circles |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-1mmLenDash-0.5mmGapLine                                                                                                                   |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00040 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)                                                                                              |                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                                                  | <b>Dash Length:</b> 1.0mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Cyan_1.0mmOpenCircle                                                                                                                                 |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> P00057 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 1.0mm diameter open circle with a 0.15mm lineweight                                                                                              |                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm<br><b>Diameter:</b> 1.0mm                                                                                                                                                                       |                                  |                                     |
| <b>Element Name:</b> Cyan_1.0mmOpenCircle                                                                                                                                 |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> P00057 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 1.0mm diameter open circle with a 0.15mm lineweight                                                                                              |                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm<br><b>Diameter:</b> 1.0mm                                                                                                                                                                       |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                            |
|----------|--------------------------------|-------------------------------------|
| R003463  | Aqueduct / with qanats (curve) | (ATC = 6 [Qanat]) and (LZN >= 1500) |

**Symbol Sample**



**Archeological\_Site (AL012)**

Surface

**Archeological\_Site (AL012) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_ArcheologicalSite                                                          |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                                    |          |
|------------------------|------------------------------------|----------|
| Rule Ref               | Description                        | Criteria |
| R003017                | Archeological Site / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Archeological Site / all (surface)          |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Archeological site"                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

Point

| Symbol Information                                                                                                                 |                                                                  |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                       | <b>Symbol Graphic Name:</b> PT_Black_ArcheologicalSite           |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot      |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                  | <b>Element Reference:</b> P00010 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                  |                                  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                  |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b>                                               |                                  |
|                                                                                                                                    | <b>Diameter:</b> 1.25mm                                          | <b>Lineweight:</b> 0.15mm        |
|                                                                                                                                    | <b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

| Symbol Portrayal Rules |                                              |            |
|------------------------|----------------------------------------------|------------|
| Rule Ref               | Description                                  | Criteria   |
| R003018                | Archeological Site / non-obstruction (point) | (HGT < 46) |

| Label Information                    |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Label Description:</b>            | Archeological Site / non-obstruction (point) |
| <b>Additional Labeling Criteria:</b> | N/A                                          |
| <b>Label String:</b>                 | "Archeological site"                         |

**Archeological\_Site (AL012) (continued)**

Point

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

○ Archeological site

**Astronomical\_Observatory (AL142)**

Surface

**Symbol Information**

|                                                                                                            |                                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_AstronomicalObservatory                                                                             |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                   |                                                                                                                                          | <b>Element Reference:</b> A00006 |
| <b>Description:</b> Black Solid Fill                                                                       |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria   |
|----------|------------------------------------------|------------|
| R003466  | Astronomical Observatory / all (surface) | (HGT < 46) |

**Label Information**

**Label Description:** Astronomical Observatory / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Astronomical observatory"  
**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Astronomical observatory

Point

**Symbol Information**

|                                                                                                              |                                                                                                                           |                                  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_AstronomicalObservatory                                                              |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                  |

**Astronomical\_Observatory (AL142) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                                        | Criteria   |
|----------|----------------------------------------------------|------------|
| R003465  | Astronomical Observatory / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Label Description:</b>            | Astronomical Observatory / non-obstruction (point) |
| <b>Additional Labeling Criteria:</b> | N/A                                                |
| <b>Label String:</b>                 | "Astronomical observatory"                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)        |

**Symbol Sample**

■ Astronomical observatory

**Bog (BH015)**

Surface

**Symbol Information**

|                                                                                    |                                                                                                                    |                                  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Cyan_Bog                                                                            |                                  |
|                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                  |                                  |
|                                                                                    | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                        |                                  |
| <b>Element Name:</b> Cyan_AP12_Fill                                                |                                                                                                                    | <b>Element Reference:</b> A00018 |
| <b>Description:</b> Cyan Bog, Marsh Fill                                           |                                                                                                                    |                                  |
| <b>Color Token:</b> Cyan                                                           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_AP12_Fill in Annex I<br><b>Note:</b> Area Pattern #12 |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description         | Criteria |
|----------|---------------------|----------|
| R003021  | Bog / all (surface) | ALL      |

**Label Information**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Bog / cranberry, peat (surface)                      |
| <b>Additional Labeling Criteria:</b> | (BOC = 7 [Cranberry Bog] or BOC = 14 [Peat Bog])     |
| <b>Label String:</b>                 | [BOC]                                                |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



**Bridge (AQ040)**

Curve

**Bridge (AQ040) (continued)**

Curve

| Symbol Information                                                                                                                               |                                                                                                                                                                                                                                                                |                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                 | <b>Symbol Graphic Name:</b> LN_Black_Bridge                                                                                                                                                                                                                    |                                  |
|                                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                              |                                  |
|                                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point outward.                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_Bridge                                                                                                                |                                                                                                                                                                                                                                                                |                                  |
| <b>Description:</b> Black 0.3mm Solid Line casing varying based upon separation; Wing Ticks (0.15mm wt, 0.75mm long)                             |                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00055 |
| <b>Element Type:</b> Line - Complex                                                                                                              |                                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidDoubleLine<br><b>Fix at Start:</b> Black_0.15mm-0.75mmLenWingTick<br><b>Fix at End:</b> Black_0.15mm-0.75mmLenWingTick<br><b>Note:</b> Tick angle depends on which end of the feature they are placed |                                  |
| <b>Element Name:</b> Black_0.3mmSolidDoubleLine                                                                                                  |                                                                                                                                                                                                                                                                |                                  |
| <b>Description:</b> Two parallel Black 0.3mm Solid Lines (0.3mm wt)                                                                              |                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00019 |
| <b>Element Type:</b> Line - Simple                                                                                                               |                                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm<br><b>Note:</b> Spacing is variable to the width of the overpassing transportation feature                                                                                                                      |                                  |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick                                                                                              |                                                                                                                                                                                                                                                                |                                  |
| <b>Description:</b> Black 0.75mm fixed length line (lineweight 0.15mm) that is angled at 45, 135, 225 or 315 to the line with which it attaches. |                                                                                                                                                                                                                                                                | <b>Element Reference:</b> P00042 |
| <b>Element Type:</b> Point - Simple                                                                                                              |                                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm<br><b>Orientation:</b> Based 45, 135, 225, and 315 degrees to line outward, from center of line ends<br><b>Note:</b> Angle depends on which end of the feature the ticks are placed.     |                                  |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick                                                                                              |                                                                                                                                                                                                                                                                |                                  |
| <b>Description:</b> Black 0.75mm fixed length line (lineweight 0.15mm) that is angled at 45, 135, 225 or 315 to the line with which it attaches. |                                                                                                                                                                                                                                                                | <b>Element Reference:</b> P00042 |
| <b>Element Type:</b> Point - Simple                                                                                                              |                                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm<br><b>Orientation:</b> Based 45, 135, 225, and 315 degrees to line outward, from center of line ends<br><b>Note:</b> Angle depends on which end of the feature the ticks are placed.     |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003130  | Bridge / fixed / non-pedestrian (curve) | (BOT = 17 [Fixed] or BOT = 999 [Other] or BOT = -999999 [No Information]) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 10 [Pipeline] or TRS = 12 [Railway] or TRS = 13 [Road] or TRS = 20 [Taxiway] or TRS = 25 [Runway] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (LZN >= 125) |

**Label Information**

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Bridge / named / usable (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information])                                         |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                  |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                  |
| <b>Label Description:</b>            | Bridge / named / construction (curve)                                                        |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | [ZI005_FNA] "(construction)"                                                                 |
| <b>Characteristics:</b>              | 1,22<br>22 (Black, Condensed, 6 pt, Lower case)                                              |
| <b>Label Description:</b>            | Bridge / named / not usable (curve)                                                          |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | [ZI005_FNA] "(not usable)"                                                                   |
| <b>Characteristics:</b>              | 1,22<br>22 (Black, Condensed, 6 pt, Lower case)                                              |

**Bridge (AQ040) (continued)**

Curve

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                   |                                  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Bridge                                                                       |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                 |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is placed at the center and aligned to the curve geometry. |                                  |
| <b>Element Name:</b> Black_PT_Bridge                                                                           |                                                                                                                   | <b>Element Reference:</b> P00188 |
| <b>Description:</b> Black point bridge (fixed)                                                                 |                                                                                                                   |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_PT_Bridge in Annex H for detailed drawing instructions      |                                  |

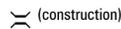
**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                                                                                                                                                                                                |
|----------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003470  | Bridge / fixed / non-pedestrian / small (curve) | (BOT = 17 [Fixed] or BOT = 999 [Other] or BOT = -999999 [No Information]) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 10 [Pipeline] or TRS = 12 [Railway] or TRS = 13 [Road] or TRS = 20 [Taxiway] or TRS = 25 [Runway] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (LZN < 125) |

**Label Information**

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Bridge / construction (curve)                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | "(construction)"                                                                             |
| <b>Characteristics:</b>              | 22<br>22 (Black, Condensed, 6 pt, Lower case)                                                |
| <b>Label Description:</b>            | Bridge / not usable (curve)                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "(not usable)"                                                                               |
| <b>Characteristics:</b>              | 22<br>22 (Black, Condensed, 6 pt, Lower case)                                                |

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_Bridge_DrawLift                                                                       |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                          |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point outward. |  |

**Bridge (AQ040) (continued)**

Curve

|                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Bridge (Draw/Lift)                                                                                                    |                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00057 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line casing varying based upon separation; Open Circle and Wing Ticks (0.15mm wt, 0.75mm long)             |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidDoubleLine <span style="float:right"><b>Fix at Center:</b> Black_0.2mmOpenCircle</span><br><b>Fix at Start:</b> Black_0.15mm-0.75mmLenWingTick<br><b>Fix at End:</b> Black_0.15mm-0.75mmLenWingTick<br><b>Note:</b> Tick angle depends on which end of the feature they are placed |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidDoubleLine                                                                                                  |                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00019 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Two parallel Black 0.3mm Solid Lines (0.3mm wt)                                                                              |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm<br><b>Note:</b> Spacing is variable to the width of the overpassing transportation feature                                                                                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick                                                                                              |                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.75mm fixed length line (lineweight 0.15mm) that is angled at 45, 135, 225 or 315 to the line with which it attaches. |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <span style="float:right"><b>Length:</b> 0.75mm</span><br><b>Orientation:</b> Based 45, 135, 225, and 315 degrees to line outward, from center of line ends<br><b>Note:</b> Angle depends on which end of the feature the ticks are placed.                                                 |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick                                                                                              |                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.75mm fixed length line (lineweight 0.15mm) that is angled at 45, 135, 225 or 315 to the line with which it attaches. |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <span style="float:right"><b>Length:</b> 0.75mm</span><br><b>Orientation:</b> Based 45, 135, 225, and 315 degrees to line outward, from center of line ends<br><b>Note:</b> Angle depends on which end of the feature the ticks are placed.                                                 |                                  |                                     |
| <b>Element Name:</b> Black_0.2mmOpenCircle                                                                                                       |                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00048 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> A 0.2mm lineweight open circle whose diameter depends upon the width of the feature.                                         |                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <span style="float:right"><b>Diameter:</b> center line of the circle matches feature width</span>                                                                                                                                                                                            |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                         |
|----------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003131  | Bridge / non-fixed / non-pedestrian (curve) | (BOT = 4 [Bascule] or BOT = 10 [Swing-bridge] or BOT = 11 [Lift-bridge] or BOT = 12 [Retractable] or BOT = 15 [Drawbridge] or BOT = 16 [Opening]) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 10 [Pipeline] or TRS = 12 [Railway] or TRS = 13 [Road] or TRS = 20 [Taxiway] or TRS = 25 [Runway] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (LZN >= 125) |

**Label Information**

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Bridge / named / usable (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information])                                         |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                  |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                  |
| <b>Label Description:</b>            | Bridge / named / construction (curve)                                                        |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | [ZI005_FNA] "(construction)"                                                                 |
| <b>Characteristics:</b>              | 1,22<br>22 (Black, Condensed, 6 pt, Lower case)                                              |
| <b>Label Description:</b>            | Bridge / named / not usable (curve)                                                          |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | [ZI005_FNA] "(not usable)"                                                                   |
| <b>Characteristics:</b>              | 1,22<br>22 (Black, Condensed, 6 pt, Lower case)                                              |

**Bridge (AQ040) (continued)**

Curve

Symbol Sample



Symbol Information

|                                                                                                                |                                                                                                                       |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Bridge_DrawLift                                                                  |                                  |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                     |                                  |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is placed at the center and aligned to the curve geometry.     |                                  |                                    |
| <b>Element Name:</b> Black_PT_Bridge_DrawLift                                                                  |                                                                                                                       | <b>Element Reference:</b> P00202 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black point bridge (draw-lift)                                                             |                                                                                                                       |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_PT_Bridge_DrawLift in Annex H for detailed drawing instructions |                                  |                                    |

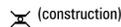
Symbol Portrayal Rules

| Rule Ref | Description                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                        |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003650  | Bridge / non-fixed / non-pedestrian / small (curve) | (BOT = 4 [Bascule] or BOT = 10 [Swing-bridge] or BOT = 11 [Lift-bridge] or BOT = 12 [Retractable] or BOT = 15 [Drawbridge] or BOT = 16 [Opening]) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 10 [Pipeline] or TRS = 12 [Railway] or TRS = 13 [Road] or TRS = 20 [Taxiway] or TRS = 25 [Runway] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (LZN < 125) |

Label Information

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Bridge / construction (curve)                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | "(construction)"                                                                             |
| <b>Characteristics:</b>              | 22<br>22 (Black, Condensed, 6 pt, Lower case)                                                |
| <b>Label Description:</b>            | Bridge / not usable (curve)                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "(not usable)"                                                                               |
| <b>Characteristics:</b>              | 22<br>22 (Black, Condensed, 6 pt, Lower case)                                                |

Symbol Sample



Symbol Information

|                                                                                                                  |                                                                                                                                                               |  |  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_Bridge_Pedestrian                                                                                                        |  |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                              |  |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Apex of 'V' touches bridge ends with ticks facing away. |  |  |

**Bridge (AQ040) (continued)**

Curve

|                                                                                                                         |                                                                                                                                                                                                                                            |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Bridge (Pedestrian)                                                                          |                                                                                                                                                                                                                                            | <b>Element Reference:</b> L00058 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with V (0.15mm wt, 0.75mm long)                                              |                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Fix at Start:</b> Black_0.15mm-0.75mmLenV<br><b>Fix at End:</b> Black_0.15mm-0.75mmLenV<br><b>Note:</b> Origin: Apex of 'V' touches bridge ends with ticks facing away |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                                                               |                                                                                                                                                                                                                                            | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                                                   |                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                             |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenV                                                                            |                                                                                                                                                                                                                                            | <b>Element Reference:</b> P00039 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black "V" length of each leg is 0.75mm with a 0.15mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                  |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenV                                                                            |                                                                                                                                                                                                                                            | <b>Element Reference:</b> P00039 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black "V" length of each leg is 0.75mm with a 0.15mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria                                |
|----------|-----------------------------|-----------------------------------------|
| R003132  | Bridge / pedestrian (curve) | (TRS = 9 [Pedestrian]) and (LZN >= 125) |

**Symbol Sample**



**Symbol Information**

|                               |                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Bridge_Pedestrian                                                            |
|                               | <b>Apply Label to Symbol:</b> No                                                                                  |
|                               | <b>Symbol Placement Instructions:</b> The point symbol is placed at the center and aligned to the curve geometry. |

**Bridge (AQ040) (continued)**

Curve

|                                                                                                                         |                                                                                                                                                                    |                                      |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Black_PT_Bridge_Pedestrian                                                                         | <b>Element Reference:</b> P00201                                                                                                                                   | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 0.75mm length line with a 0.3mm lineweight with a V attached at each end.                     |                                                                                                                                                                    |                                      |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_0.3mm-0.75LenLine<br><b>Point 2 Name:</b> Black_0.15mm-0.75mmLenV<br><b>Point 3 Name:</b> Black_0.15mm-0.75mmLenV |                                      |
| <b>Element Name:</b> Black_0.3mm-0.75LenLine                                                                            | <b>Element Reference:</b> P00203                                                                                                                                   | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black 0.3mm lineweight line that is 0.75mm long                                                     |                                                                                                                                                                    |                                      |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Length:</b> 0.75mm                                                                                               |                                      |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenV                                                                            | <b>Element Reference:</b> P00039                                                                                                                                   | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black "V" length of each leg is 0.75mm with a 0.15mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                    |                                      |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Note:</b> Angle between legs: 90 degrees                                                                                                  |                                      |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenV                                                                            | <b>Element Reference:</b> P00039                                                                                                                                   | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black "V" length of each leg is 0.75mm with a 0.15mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                    |                                      |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Note:</b> Angle between legs: 90 degrees                                                                                                  |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                               |
|----------|-------------------------------------|----------------------------------------|
| R003645  | Bridge / pedestrian / small (curve) | (TRS = 9 [Pedestrian]) and (LZN < 125) |

**Symbol Sample**



**Bridge\_Superstructure (AQ050)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                                                           |                                    |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_LinearObstruction                                                                  |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Point symbol is placed at the center of the curve geometry. Origin: Center of dot   |                                    |
| <b>Element Name:</b> Blue072_PT_LinearObstruction                                                                | <b>Element Reference:</b> P00113                                                                                          | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Blue072 linear vertical obstruction                                                          |                                                                                                                           |                                    |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_PT_LinearObstruction in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria    |
|----------|---------------------------------------------|-------------|
| R003471  | Bridge Superstructure / obstruction (curve) | (HGT >= 46) |

**Label Information**

**Label Description:** Bridge Superstructure / obstruction (curve)  
**Additional Labeling Criteria:** ZVH and HGT values are converted from meters to feet.  
**Label String:** "Bridge superstructure"  
[ZVH]  
"([HGT])"

**Bridge\_Superstructure (AQ050) (continued)**

Point

**Characteristics:** 15,46,95,95,95  
 15 (Blue072, Condensed, 6 pt, Mixed case)  
 46 (Blue072, Condensed, Bold, 6 pt, Lower case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Building (AL013)**

Surface

| Symbol Information                                                                                         |                                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Building_Generic                                                                                    |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                         |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                   | <b>Element Reference:</b> A00006                                                                                                         | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Black Solid Fill                                                                       |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

## Building (AL013) (continued)

## Surface

|         |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|---------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| R003398 | Building / generic / large area (surface) | <p>(LZN &gt;= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 2 [Agriculture] or FFN = 3 [Growing of Crops] or FFN = 9 [Raising of Animals] or FFN = 14 [Grazing] or FFN = 35 [Aquaculture] or FFN = 40 [Mining and Quarrying] or FFN = 95 [Ore Dressing] or FFN = 99 [Manufacturing] or FFN = 100 [Food Product Manufacture] or FFN = 101 [Food Processing] or FFN = 102 [Meat Processing] or FFN = 103 [Seafood Processing] or FFN = 104 [Fruit and/or Vegetable Processing] or FFN = 105 [Oil-mill] or FFN = 106 [Dairying] or FFN = 107 [Grain Milling] or FFN = 110 [Baking] or FFN = 111 [Sugar Manufacture] or FFN = 112 [Sugar Milling] or FFN = 113 [Sugar Refining] or FFN = 114 [Confection Manufacture] or FFN = 115 [Pastas Manufacture] or FFN = 116 [Prepared Meal Manufacture] or FFN = 118 [Beverage Manufacture] or FFN = 119 [Animal Feed Manufacture] or FFN = 120 [Ice Manufacture] or FFN = 121 [Spirit Distillery] or FFN = 122 [Winery] or FFN = 123 [Brewing] or FFN = 124 [Soft Drink Manufacture] or FFN = 125 [Tobacco Product Manufacture] or FFN = 129 [Textile, Apparel and Leather Manufacture] or FFN = 130 [Textile Manufacture] or FFN = 140 [Apparel Manufacture] or FFN = 150 [Leather Product Manufacture] or FFN = 155 [Footwear Manufacturing] or FFN = 160 [Wood-based Manufacturing] or FFN = 161 [Sawmilling] or FFN = 165 [Wooden Construction Product Manufacture] or FFN = 171 [Paper-mill] or FFN = 181 [Printing] or FFN = 190 [Petroleum and Coal Products Manufacturing] or FFN = 191 [Coke Manufacture] or FFN = 192 [Petroleum Refining] or FFN = 195 [Chemical Manufacture] or FFN = 210 [Medicinal Product Manufacture] or FFN = 221 [Rubber Product Manufacture] or FFN = 225 [Plastic Product Manufacture] or FFN = 230 [Nonmetallic Mineral Product Manufacturing] or FFN = 231 [Glass Product Manufacture] or FFN = 232 [Refractory Product Manufacture] or FFN = 233 [Clay Product Manufacture] or FFN = 234 [Ceramic Product Manufacture] or FFN = 235 [Cement Mill] or FFN = 236 [Cement Product Manufacture] or FFN = 237 [Stone Product Manufacture] or FFN = 240 [Primary Metal Manufacturing] or FFN = 241 [Steel Mill] or FFN = 242 [Metal Refining] or FFN = 243 [Foundry] or FFN = 250 [Metal Product Manufacturing] or FFN = 251 [Structural Metal Product Manufacture] or FFN = 255 [Munitions Manufacture] or FFN = 257 [Fabricated Metal Product Manufacture] or FFN = 260 [Electronic Equipment Manufacture] or FFN = 270 [Electrical Equipment Manufacture] or FFN = 272 [Propane Sale] or FFN = 280 [Machinery Manufacture] or FFN = 289 [Transportation Equipment Manufacturing] or FFN = 290 [Motor Vehicle Manufacture] or FFN = 301 [Ship Construction] or FFN = 304 [Railway Vehicle Manufacture] or FFN = 305 [Aircraft Manufacture] or FFN = 306 [Military Vehicle Manufacture] or FFN = 310 [Furniture Manufacture] or FFN = 320 [Miscellaneous Manufacturing] or FFN = 321 [Jewellery Manufacture] or FFN = 322 [Musical Instrument Manufacture] or FFN = 323 [Sports Goods Manufacture] or FFN = 324 [Game and/or Toy Manufacture] or FFN = 325 [Medical and/or Dental Equipment Manufacture] or FFN = 330 [General Repair] or FFN = 331 [Fabricated Metal Product Repair] or FFN = 332 [Electronic Equipment Repair] or FFN = 333 [Electrical Equipment Repair] or FFN = 334 [Machinery Repair] or FFN = 340 [Ship Repair] or FFN = 341 [Aircraft Repair] or FFN = 342 [Railway Vehicle Repair] or FFN = 343 [Motor Vehicle Repair] or FFN = 350 [Utilities] or FFN = 351 [Power Generation] or FFN = 352 [Climate Control] or FFN = 355 [Cooling] or FFN = 356 [Heating] or FFN = 360 [Water Supply] or FFN = 362 [Water Treatment] or FFN = 363 [Water Distribution] or FFN = 370 [Sewerage] or FFN = 372 [Sewerage Screening] or FFN = 382 [Restroom] or FFN = 383 [Waste Treatment and Disposal] or FFN = 385 [Materials Recovery] or FFN = 440 [Commerce] or FFN = 459 [Wholesale Merchant] or FFN = 460 [Retail Sale] or FFN = 464 [Specialized Store] or FFN = 465 [Non-specialized Store] or FFN = 466 [Convenience Store] or FFN = 470 [Petrol Sale] or FFN = 473 [Sales Yard] or FFN = 474 [Precious Metal Merchant] or FFN = 475 [Market] or FFN = 476 [Grocery] or FFN = 477 [Pharmacy] or FFN = 478 [Pet-shop] or FFN = 480 [Transport] or FFN = 481 [Terminal] or FFN = 482 [Station] or FFN = 483 [Stop] or FFN = 484 [Transfer Hub] or FFN = 486 [Signalling] or FFN = 487 [Transport System Maintenance Hub] or FFN = 488 [Navigation] or FFN = 489 [Transportation Hub] or FFN = 494 [Pedestrian Transport] or FFN = 495 [Road Transport] or FFN = 496 [Road Passenger Transport] or FFN = 497 [Road Freight Transport] or FFN = 500 [Pipeline Transport] or FFN = 501 [Pumping] or FFN = 505 [Water Transport] or FFN = 507 [Inland Waters Transport] or FFN = 508 [Canal Transport] or FFN = 510 [Port Control] or FFN = 511 [Maritime Pilotage] or FFN = 512 [Pilot Station] or FFN = 513 [Harbour Control] or FFN = 520 [Air Transport] or FFN = 525 [Air Traffic Control] or FFN = 529 [Transportation Support] or FFN = 530 [Warehousing and Storage] or FFN = 535 [Motor Vehicle Parking] or FFN = 536 [Cargo Handling] or FFN = 539 [Inspection] or FFN = 540 [Postal Activities] or FFN = 541 [Mail and Package Transport] or FFN = 545 [Courier Activities] or FFN = 548 [Short-term Accommodation] or FFN = 549 [Long-term Accommodation] or FFN = 550 [Accommodation] or FFN = 551 [Hotel] or FFN = 552 [Resort Hotel] or FFN = 553 [Motel] or FFN = 554 [Guest-house] or FFN = 555 [Hostel] or FFN = 556 [Dormitory] or FFN = 557 [Vacation Cottage] or FFN = 558 [Dependents Housing] or FFN = 563 [Residence] or FFN = 570 [Food Service] or FFN = 572 [Restaurant] or FFN = 573 [Bar] or FFN = 574 [Dining Hall] or FFN = 578 [Banquet Hall] or FFN = 579 [Convention Centre] or FFN = 580 [Publishing and Broadcasting] or FFN = 582 [Print Publishing] or FFN = 594 [Cinema] or FFN = 601 [Radio Broadcasting] or FFN = 604 [Television Broadcasting] or FFN = 610 [Telecommunications] or FFN = 612 [Retail Telecommunications] or FFN = 614 [Wired Telecommunications] or FFN = 615 [Main Telephone Exchange] or FFN = 616 [Branch Telephone Exchange] or FFN = 617 [Wired Repeater] or FFN = 620 [Wireless Telecommunications] or FFN = 621 [Mobile Phone Service] or FFN = 622 [Wireless Repeater] or FFN = 625 [Satellite Telecommunications] or FFN = 626 [Satellite Ground Control] or FFN = 632 [Information Service] or FFN = 633 [Public Records] or FFN = 640 [Financial Services] or FFN = 642 [Central Banking] or FFN = 643 [Retail Banking] or FFN = 651 [Insurance] or FFN = 662 [Financial Market Administration] or FFN = 663 [Security Brokerage] or FFN = 671 [Fund Management] or FFN = 680 [Real Estate Activities] or FFN = 681 [Professional, Scientific and Technical] or FFN = 691 [Legal Activities] or FFN = 696 [Accounting] or FFN = 701 [Head Office] or FFN = 706 [Business Management] or FFN = 711 [Architecture Consulting] or FFN = 714 [Engineering Design] or FFN = 717 [Surveying] or FFN = 720 [Scientific Research and Development] or FFN = 721 [Observation Station] or FFN = 722 [Weather Station] or FFN = 725 [Nuclear Research Centre] or FFN = 730 [Wind Tunnel] or FFN = 741 [Advertising] or FFN = 752 [Photography] or FFN = 757 [Veterinary] or FFN = 760 [Business and Personal Support Services] or FFN = 761 [Motor Vehicle Rental] or FFN = 770 [Employment Agency] or FFN = 775 [Travel</p> |
|---------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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**Building (AL013) (continued)**

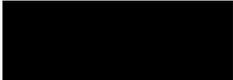
Surface

Agency] or FFN = 780 [Security Enforcement] or FFN = 781 [Guard] or FFN = 791 [Custodial Service] or FFN = 795 [Landscaping Service] or FFN = 801 [Office Administration] or FFN = 807 [Call Centre] or FFN = 809 [Headquarters] or FFN = 810 [Administration] or FFN = 821 [Polling Station] or FFN = 830 [Public Order, Safety and Security Services] or FFN = 831 [Public Order] or FFN = 832 [Safety] or FFN = 833 [Security Services] or FFN = 838 [Military Recruitment] or FFN = 839 [CBRNE Civilian Support] or FFN = 847 [Emergency Operations] or FFN = 848 [Civil Intelligence] or FFN = 864 [Human Tissue Repository] or FFN = 881 [Emergency Shelter] or FFN = 882 [Homeless Shelter] or FFN = 883 [Refugee Shelter] or FFN = 884 [Emergency Youth Shelter] or FFN = 885 [Day Care] or FFN = 887 [Social Work] or FFN = 888 [Emergency Relief Services] or FFN = 890 [Cultural, Arts and Entertainment] or FFN = 891 [Theatre] or FFN = 892 [Auditorium] or FFN = 893 [Community Centre] or FFN = 895 [Night Club] or FFN = 900 [Sports, Amusement and Recreation] or FFN = 902 [Library] or FFN = 906 [Aquarium] or FFN = 907 [Botanical and/or Zoological Reserve Activities] or FFN = 909 [Gambling] or FFN = 912 [Sports Centre] or FFN = 913 [Fitness Centre] or FFN = 914 [Shooting Range] or FFN = 919 [Animal Boarding] or FFN = 921 [Recreation] or FFN = 922 [Amusement] or FFN = 923 [Hobbies and/or Leisure Activities] or FFN = 950 [Membership Organization] or FFN = 954 [Club] or FFN = 955 [Yacht-club] or FFN = 960 [Retail Service] or FFN = 961 [Laundry] or FFN = 962 [Beauty Treatment] or FFN = 963 [Funeral Services] or FFN = 964 [Cremation] or FFN = 965 [Mortuary Services] or FFN = 966 [Adult Entertainment] or FFN = 967 [Storage of Human Remains] or FFN = 970 [Meeting Place] or FFN = 980 [Death Care Services] or FFN = 999 [Other] or FFN = -999999 [No Information]) and (HGT < 46)

**Symbol Sample**



**Symbol Information**

|                                                                                                             |                                                                                                                                          |                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Building_Important                                                                                  |                                  |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                    |                                                                                                                                          | <b>Element Reference:</b> A00006 |
| <b>Description:</b> Black Solid Fill                                                                        |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                   | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003436  | Building / important / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 27 [Forest Warden] or FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport] or FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 808 [Public Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 822 [Civil Activities] or FFN = 829 [Maritime Defense] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities] or FFN = 840 [Judicial Activities] or FFN = 841 [Law Enforcement] or FFN = 842 [Immigration Control] or FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections] or FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services] or FFN = 894 [Opera House] or FFN = 905 [Museum]) and (HGT < 46) |

**Label Information**

|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>Label Description:</b>            | Building / named (surface)                                    |
| <b>Additional Labeling Criteria:</b> | (Z1005_FNA <> "No Information")                               |
| <b>Label String:</b>                 | [Z1005_FNA]                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                   |
| <b>Label Description:</b>            | Building / forest warden (surface)                            |
| <b>Additional Labeling Criteria:</b> | (Z1005_FNA = "No Information") and (FFN = 27 [Forest Warden]) |
| <b>Label String:</b>                 | "Ranger"                                                      |
| <b>Characteristics:</b>              | 1                                                             |

**Building (AL013) (continued)**

## Surface

|                                      |                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | 1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Building / station (surface)                                                                                                                                                                                                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport])                                                                                                                                                                                                       |
| <b>Label String:</b>                 | "Station"                                                                                                                                                                                                                                                                                                           |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / checkpoint (surface)                                                                                                                                                                                                                                                                                     |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 842 [Immigration Control])                                                                                                                                                                            |
| <b>Label String:</b>                 | "Checkpoint"                                                                                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / government (surface)                                                                                                                                                                                                                                                                                     |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 808 [Public Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 822 [Civil Activities]) |
| <b>Label String:</b>                 | "Government"                                                                                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / palace, capitol, opera house, museum (surface)                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 894 [Opera House] or FFN = 905 [Museum])                                                                                                                                                                                     |
| <b>Label String:</b>                 | [FFN]                                                                                                                                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / military administration (surface)                                                                                                                                                                                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 829 [Maritime Defense] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities])                                                                                                                                                |
| <b>Label String:</b>                 | "Military"                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / judicial activities (surface)                                                                                                                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 840 [Judicial Activities])                                                                                                                                                                                                                                                |
| <b>Label String:</b>                 | "Courthouse"                                                                                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / law enforcement (surface)                                                                                                                                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 841 [Law Enforcement])                                                                                                                                                                                                                                                    |
| <b>Label String:</b>                 | "Police"                                                                                                                                                                                                                                                                                                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / prison (surface)                                                                                                                                                                                                                                                                                         |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections])                                                                                                                                                                                                                   |
| <b>Label String:</b>                 | "Prison"                                                                                                                                                                                                                                                                                                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Building / fire/rescue (surface)                                                                                                                                                                                                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services])                                                                                                                                                                                                        |
| <b>Label String:</b>                 | "Fire/Rescue"                                                                                                                                                                                                                                                                                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                         |

**Building (AL013) (continued)**

Surface

**Symbol Sample**



Prison



Metropolitan Museum of Art

**Symbol Information**

|                                                                                                            |                                                                                                                                                                                                                    |                                  |                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Church                                                                                                                                                                        |                                  |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                  |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                  |                                    |
| <b>Element Name:</b> Black_SolidAreaFill                                                                   |                                                                                                                                                                                                                    | <b>Element Reference:</b> A00006 | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill                                                                       |                                                                                                                                                                                                                    |                                  |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                      |                                  |                                    |
| <b>Element Name:</b> Black_Cross                                                                           |                                                                                                                                                                                                                    | <b>Element Reference:</b> P00013 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black cross                                                                            |                                                                                                                                                                                                                    |                                  |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cross in Annex H for detailed drawing instructions.                                                                                                          |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003404  | Building / church / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and ((ZI037_RFA = 1 [Cathedral] or ZI037_RFA = 2 [Chapel] or ZI037_RFA = 3 [Church] or ZI037_RFA = 14 [Tabernacle]) or ((ZI037_RFA = 9 [Religious Community] or ZI037_RFA = 11 [Shrine] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information]) and (ZI037_REL = 3 [Roman Catholic] or ZI037_REL = 4 [Christian] or ZI037_REL = 6 [Orthodox] or ZI037_REL = 7 [Protestant] or ZI037_REL = 12 [Nestorian] or ZI037_REL = 13 [Chaldean]))) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                    |                                  |                                    |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Mosque                                                                                                                                                                        |                                  |                                    |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                  |                                    |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                  |                                    |
| <b>Element Name:</b> Black_SolidAreaFill                                                                     |                                                                                                                                                                                                                    | <b>Element Reference:</b> A00006 | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill                                                                         |                                                                                                                                                                                                                    |                                  |                                    |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                      |                                  |                                    |
| <b>Element Name:</b> Black_Crescent                                                                          |                                                                                                                                                                                                                    | <b>Element Reference:</b> P00014 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black crescent                                                                           |                                                                                                                                                                                                                    |                                  |                                    |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.                                                                                                       |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Building (AL013) (continued)**

Surface

R003402 Building / mosque / large area (surface) (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship] or FFN = 932 [Islamic Prayer Hall]) and ((Z1037\_RFA = 4 [Marabout] or Z1037\_RFA = 5 [Minaret] or Z1037\_RFA = 7 [Mosque]) or ((Z1037\_RFA = 9 [Religious Community] or Z1037\_RFA = 11 [Shrine] or Z1037\_RFA = 999 [Other] or Z1037\_RFA = -999999 [No Information]) and (Z1037\_REL = 2 [Islam] or Z1037\_REL = 10 [Shia] or Z1037\_REL = 11 [Sunn])))) and (HGT < 46)

Symbol Sample



Symbol Information

|                                                                                                         |                                                                                                                                                                                                                    |                                  |                                    |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <p>Symbol Graphic</p>  | <p>Symbol Graphic Name: AR_Black_Pagoda</p>                                                                                                                                                                        |                                  |                                    |
|                                                                                                         | <p>Apply Label to Symbol: No</p>                                                                                                                                                                                   |                                  |                                    |
|                                                                                                         | <p>Symbol Placement Instructions: The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area.</p> |                                  |                                    |
| <p>Element Name: Black_SolidAreaFill</p>                                                                |                                                                                                                                                                                                                    | <p>Element Reference: A00006</p> | <p>Element Type: Area - Fill</p>   |
| <p>Description: Black Solid Fill</p>                                                                    |                                                                                                                                                                                                                    |                                  |                                    |
| <p>Color Token: Black</p>                                                                               | <p>Parameters:</p> <p>Note: Solid Fill</p>                                                                                                                                                                         |                                  |                                    |
| <p>Element Name: Black_Pagoda</p>                                                                       |                                                                                                                                                                                                                    | <p>Element Reference: P00019</p> | <p>Element Type: Point - Shape</p> |
| <p>Description: Black pagoda</p>                                                                        |                                                                                                                                                                                                                    |                                  |                                    |
| <p>Color Token: Black</p>                                                                               | <p>Parameters:</p> <p>Note: See Element: Black_Pagoda in Annex H for detailed drawing instructions.</p>                                                                                                            |                                  |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                             |
|----------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003405  | Building / pagoda / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (Z1037_RFA = 8 [Pagoda] or Z1037_REL = 9 [Hinduism]) and (HGT < 46) |

Symbol Sample



Symbol Information

|                                                                                                           |                                                                                                                                                                                                                    |                                  |                                    |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <p>Symbol Graphic</p>  | <p>Symbol Graphic Name: AR_Black_Stupa</p>                                                                                                                                                                         |                                  |                                    |
|                                                                                                           | <p>Apply Label to Symbol: No</p>                                                                                                                                                                                   |                                  |                                    |
|                                                                                                           | <p>Symbol Placement Instructions: The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area.</p> |                                  |                                    |
| <p>Element Name: Black_SolidAreaFill</p>                                                                  |                                                                                                                                                                                                                    | <p>Element Reference: A00006</p> | <p>Element Type: Area - Fill</p>   |
| <p>Description: Black Solid Fill</p>                                                                      |                                                                                                                                                                                                                    |                                  |                                    |
| <p>Color Token: Black</p>                                                                                 | <p>Parameters:</p> <p>Note: Solid Fill</p>                                                                                                                                                                         |                                  |                                    |
| <p>Element Name: Black_Stupa</p>                                                                          |                                                                                                                                                                                                                    | <p>Element Reference: P00031</p> | <p>Element Type: Point - Shape</p> |
| <p>Description: Black stupa</p>                                                                           |                                                                                                                                                                                                                    |                                  |                                    |
| <p>Color Token: Black</p>                                                                                 | <p>Parameters:</p> <p>Note: See Element: Black_Stupa in Annex H for detailed drawing instructions.</p>                                                                                                             |                                  |                                    |

**Building (AL013) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                             |
|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003407  | Building / stupa / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 12 [Stupa] or ZI037_REL = 1 [Buddhism]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                           |                                                                                                                                                                                                                    |                                  |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <p><b>Symbol Graphic</b></p>                                              | <b>Symbol Graphic Name:</b> AR_Black_Synagogue                                                                                                                                                                     |                                  |
|                                                                           | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                  |
|                                                                           | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                  |                                                                                                                                                                                                                    | <b>Element Reference:</b> A00006 |
| <b>Description:</b> Black Solid Fill                                      |                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Black                                                 | <b>Parameters:</b>                                                                                                                                                                                                 |                                  |
|                                                                           | <b>Note:</b> Solid Fill                                                                                                                                                                                            |                                  |
| <b>Element Name:</b> Black_Judaism                                        |                                                                                                                                                                                                                    | <b>Element Reference:</b> P00017 |
| <b>Description:</b> Black 0.2mm linewidth "T" with a 1.1mm overall height |                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Black                                                 | <b>Parameters:</b>                                                                                                                                                                                                 |                                  |
|                                                                           | <b>Lineweight:</b> 0.2mm                                                                                                                                                                                           |                                  |
|                                                                           | <b>Note:</b> Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm                                                                          |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                |
|----------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003403  | Building / synagogue / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 13 [Synagogue] or ZI037_REL = 5 [Judaism]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                              |                                                                                                                                                                                                                    |  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>Symbol Graphic</b></p> | <b>Symbol Graphic Name:</b> AR_Black_Temple                                                                                                                                                                        |  |
|                              | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |  |
|                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |  |

**Building (AL013) (continued)**

Surface

|                                          |                                                                                                            |                                    |
|------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_SolidAreaFill | <b>Element Reference:</b> A00006                                                                           | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill     |                                                                                                            |                                    |
| <b>Color Token:</b> Black                | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                              |                                    |
| <b>Element Name:</b> Black_Temple        | <b>Element Reference:</b> P00018                                                                           | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black temple         |                                                                                                            |                                    |
| <b>Color Token:</b> Black                | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Temple in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                       |
|----------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003406  | Building / temple / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 15 [Temple]) and (ZI037_REL = 1 [Buddhism] or ZI037_REL = 8 [Shinto] or ZI037_REL = 9 [Hinduism]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                             |                                                                                                                                          |                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Building_HouseOfWorship_Generic                                                                     |                                  |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                    | <b>Element Reference:</b> A00006                                                                                                         | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Black Solid Fill                                                                        |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                   | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

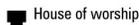
**Symbol Portrayal Rules**

| Rule Ref | Description                                                  | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003646  | Building / house of worship / generic / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 6 [Mission] or ZI037_RFA = 18 [Convent] or ZI037_RFA = 19 [Monastery] or ZI037_RFA = 20 [Noviciate] or ZI037_RFA = 21 [Hermitage] or ZI037_RFA = 22 [Retreat] or ZI037_RFA = 23 [Burial Site] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information] or ZI037_REL = 999 [Other] or ZI037_REL = -999999 [No Information]) and (HGT < 46) |

**Label Information**

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>Label Description:</b>            | Building / house of worship / generic (surface) |
| <b>Additional Labeling Criteria:</b> | N/A                                             |
| <b>Label String:</b>                 | "House of worship"                              |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |

**Symbol Sample**



**Building (AL013) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                                                                                    |                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_School                                                                                                                                                                        |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                    |
| <b>Element Name:</b> Black_SolidAreaFill                                                                   | <b>Element Reference:</b> A00006                                                                                                                                                                                   | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill                                                                       |                                                                                                                                                                                                                    |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                      |                                    |
| <b>Element Name:</b> Black_Flag                                                                            | <b>Element Reference:</b> P00016                                                                                                                                                                                   | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black flag                                                                             |                                                                                                                                                                                                                    |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Flag in Annex H for detailed drawing instructions.                                                                                                           |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                                                         |
|----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003401  | Building / school / large area (surface) | (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 850 [Education] or FFN = 851 [Primary Education] or FFN = 852 [Secondary Education] or FFN = 855 [Higher Education] or FFN = 857 [Vocational Education] or FFN = 859 [Institution] or ZI037_RFA = 10 [Seminary]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                                                                                                  |                                                                                                                                                                                                                                                                     |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br>                                                                        | <b>Symbol Graphic Name:</b> AR_Black_Building_Hospital                                                                                                                                                                                                              |                                    |
|                                                                                                                                                                                     | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                    |                                    |
|                                                                                                                                                                                     | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area.                                                  |                                    |
| <b>Element Name:</b> Black_SolidAreaFill                                                                                                                                            | <b>Element Reference:</b> A00006                                                                                                                                                                                                                                    | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill                                                                                                                                                |                                                                                                                                                                                                                                                                     |                                    |
| <b>Color Token:</b> Black                                                                                                                                                           | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                                                                       |                                    |
| <b>Element Name:</b> Black_HospitalCrossOnStem                                                                                                                                      | <b>Element Reference:</b> P00011                                                                                                                                                                                                                                    | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black 1.75mm diameter filled circle with a 1.25mm (0.25mm lineweight) paper white plus centered inside attached to a 0.6mm length stem with a 0.25mm lineweight |                                                                                                                                                                                                                                                                     |                                    |
| <b>Color Token:</b> Black                                                                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Diameter:</b> 1.75mm<br><b>Note:</b> The 1.25mm (0.25mm lineweight) paper white plus symbol is centered inside the black 1.75mm diameter filled circle and the stem is 0.6mm length with a 0.25mm lineweight. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                                                                                                                                                                                         |
|----------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003400  | Building / hospital / large area (surface) | (LZN >= 375) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 860 [Human Health Activities] or FFN = 861 [In-patient Care] or FFN = 863 [Urgent Medical Care]) and (HGT < 46) |

**Building (AL013) (continued)**

Surface

**Symbol Sample**



| Symbol Information                                                                                                                                                                         |                                                                                                                                                                                                                    |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br>                                                                             | <b>Symbol Graphic Name:</b> AR_Black_Building_HealthOffice                                                                                                                                                         |                                     |
|                                                                                                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                     |
|                                                                                                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                     |
| <b>Element Name:</b> Black_SolidAreaFill                                                                                                                                                   | <b>Element Reference:</b> A00006                                                                                                                                                                                   | <b>Element Type:</b> Area - Fill    |
| <b>Description:</b> Black Solid Fill                                                                                                                                                       |                                                                                                                                                                                                                    |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                  | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                      |                                     |
| <b>Element Name:</b> Black_CircleOpenWithPlusOnStem                                                                                                                                        | <b>Element Reference:</b> P00187                                                                                                                                                                                   | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.75mm diameter open circle with a 0.1mm lineweight and a 0.35mm lineweight plus symbol centered inside attached to a 0.6mm length stem with a 0.25mm lineweight |                                                                                                                                                                                                                    |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm<br><b>Diameter:</b> 1.75mm<br><b>Note:</b> Plus symbol centered inside is 0.35mm lineweight and the stem is 0.6mm length with a 0.25mm lineweight                   |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                                                                                                                                                                                                |
|----------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003477  | Building / health office / large area (surface) | (LZN >= 375) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 862 [Out-patient Care] or FFN = 865 [Public Health Activities] or FFN = 866 [Leprosy Care] or FFN = 871 [Intermediate Care] or FFN = 873 [Psychiatric In-patient Care] or FFN = 875 [Residential Care]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                               |                                                                                                                                                                                                                    |                                    |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Building_Diplomatic                                                                                                                                                           |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                   |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. The point shape is placed centered along the edge, aligned with the area. |                                    |
| <b>Element Name:</b> Black_SolidAreaFill                                                                         | <b>Element Reference:</b> A00006                                                                                                                                                                                   | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Black Solid Fill                                                                             |                                                                                                                                                                                                                    |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                                                                                      |                                    |
| <b>Element Name:</b> Black_OpenSquareFlag                                                                        | <b>Element Reference:</b> P00185                                                                                                                                                                                   | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black open square flag                                                                       |                                                                                                                                                                                                                    |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Note:</b> See Element: Black_OpenSquareFlag in Annex H for detailed drawing instructions.                                                                                                 |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Building (AL013) (continued)**

Surface

R003475 Building / diplomatic / large area (surface) (LZN >= 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 825 [Diplomacy] or FFN = 826 [Diplomatic Mission] or FFN = 827 [Embassy] or FFN = 828 [Consul]) and (HGT < 46)

Symbol Sample



Symbol Information

|                                                                                                                |                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_Generic                                                                     |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                          |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                           |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                                        |                                  |
|                                                                                                                | <b>Length:</b> 0.8mm                                                                                                      |                                  |
|                                                                                                                | <b>Note:</b> Square is filled                                                                                             |                                  |

Symbol Portrayal Rules

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

## Building (AL013) (continued)

## Surface

|         |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|---------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| R003724 | Building / generic / small area (surface) | <p>(LZN &gt; 124 and LZN &lt; 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 2 [Agriculture] or FFN = 3 [Growing of Crops] or FFN = 9 [Raising of Animals] or FFN = 14 [Grazing] or FFN = 35 [Aquaculture] or FFN = 40 [Mining and Quarrying] or FFN = 95 [Ore Dressing] or FFN = 99 [Manufacturing] or FFN = 100 [Food Product Manufacture] or FFN = 101 [Food Processing] or FFN = 102 [Meat Processing] or FFN = 103 [Seafood Processing] or FFN = 104 [Fruit and/or Vegetable Processing] or FFN = 105 [Oil-mill] or FFN = 106 [Dairying] or FFN = 107 [Grain Milling] or FFN = 110 [Baking] or FFN = 111 [Sugar Manufacture] or FFN = 112 [Sugar Milling] or FFN = 113 [Sugar Refining] or FFN = 114 [Confection Manufacture] or FFN = 115 [Pasta Manufacture] or FFN = 116 [Prepared Meal Manufacture] or FFN = 118 [Beverage Manufacture] or FFN = 119 [Animal Feed Manufacture] or FFN = 120 [Ice Manufacture] or FFN = 121 [Spirit Distillery] or FFN = 122 [Winery] or FFN = 123 [Brewing] or FFN = 124 [Soft Drink Manufacture] or FFN = 125 [Tobacco Product Manufacture] or FFN = 129 [Textile, Apparel and Leather Manufacture] or FFN = 130 [Textile Manufacture] or FFN = 140 [Apparel Manufacture] or FFN = 150 [Leather Product Manufacture] or FFN = 155 [Footwear Manufacturing] or FFN = 160 [Wood-based Manufacturing] or FFN = 161 [Sawmilling] or FFN = 165 [Wooden Construction Product Manufacture] or FFN = 171 [Paper-mill] or FFN = 181 [Printing] or FFN = 190 [Petroleum and Coal Products Manufacturing] or FFN = 191 [Coke Manufacture] or FFN = 192 [Petroleum Refining] or FFN = 195 [Chemical Manufacture] or FFN = 210 [Medicinal Product Manufacture] or FFN = 221 [Rubber Product Manufacture] or FFN = 225 [Plastic Product Manufacture] or FFN = 230 [Nonmetallic Mineral Product Manufacturing] or FFN = 231 [Glass Product Manufacture] or FFN = 232 [Refractory Product Manufacture] or FFN = 233 [Clay Product Manufacture] or FFN = 234 [Ceramic Product Manufacture] or FFN = 235 [Cement Mill] or FFN = 236 [Cement Product Manufacture] or FFN = 237 [Stone Product Manufacture] or FFN = 240 [Primary Metal Manufacturing] or FFN = 241 [Steel Mill] or FFN = 242 [Metal Refining] or FFN = 243 [Foundry] or FFN = 250 [Metal Product Manufacturing] or FFN = 251 [Structural Metal Product Manufacture] or FFN = 255 [Munitions Manufacture] or FFN = 257 [Fabricated Metal Product Manufacture] or FFN = 260 [Electronic Equipment Manufacture] or FFN = 270 [Electrical Equipment Manufacture] or FFN = 272 [Propane Sale] or FFN = 280 [Machinery Manufacture] or FFN = 289 [Transportation Equipment Manufacturing] or FFN = 290 [Motor Vehicle Manufacture] or FFN = 301 [Ship Construction] or FFN = 304 [Railway Vehicle Manufacture] or FFN = 305 [Aircraft Manufacture] or FFN = 306 [Military Vehicle Manufacture] or FFN = 310 [Furniture Manufacture] or FFN = 320 [Miscellaneous Manufacturing] or FFN = 321 [Jewellery Manufacture] or FFN = 322 [Musical Instrument Manufacture] or FFN = 323 [Sports Goods Manufacture] or FFN = 324 [Game and/or Toy Manufacture] or FFN = 325 [Medical and/or Dental Equipment Manufacture] or FFN = 330 [General Repair] or FFN = 331 [Fabricated Metal Product Repair] or FFN = 332 [Electronic Equipment Repair] or FFN = 333 [Electrical Equipment Repair] or FFN = 334 [Machinery Repair] or FFN = 340 [Ship Repair] or FFN = 341 [Aircraft Repair] or FFN = 342 [Railway Vehicle Repair] or FFN = 343 [Motor Vehicle Repair] or FFN = 350 [Utilities] or FFN = 351 [Power Generation] or FFN = 352 [Climate Control] or FFN = 355 [Cooling] or FFN = 356 [Heating] or FFN = 360 [Water Supply] or FFN = 362 [Water Treatment] or FFN = 363 [Water Distribution] or FFN = 370 [Sewerage] or FFN = 372 [Sewerage Screening] or FFN = 382 [Restroom] or FFN = 383 [Waste Treatment and Disposal] or FFN = 385 [Materials Recovery] or FFN = 440 [Commerce] or FFN = 459 [Wholesale Merchant] or FFN = 460 [Retail Sale] or FFN = 464 [Specialized Store] or FFN = 465 [Non-specialized Store] or FFN = 466 [Convenience Store] or FFN = 470 [Petrol Sale] or FFN = 473 [Sales Yard] or FFN = 474 [Precious Metal Merchant] or FFN = 475 [Market] or FFN = 476 [Grocery] or FFN = 477 [Pharmacy] or FFN = 478 [Pet-shop] or FFN = 480 [Transport] or FFN = 481 [Terminal] or FFN = 482 [Station] or FFN = 483 [Stop] or FFN = 484 [Transfer Hub] or FFN = 486 [Signalling] or FFN = 487 [Transport System Maintenance] or FFN = 488 [Navigation] or FFN = 489 [Transportation Hub] or FFN = 494 [Pedestrian Transport] or FFN = 495 [Road Transport] or FFN = 496 [Road Passenger Transport] or FFN = 497 [Road Freight Transport] or FFN = 500 [Pipeline Transport] or FFN = 501 [Pumping] or FFN = 505 [Water Transport] or FFN = 507 [Inland Waters Transport] or FFN = 508 [Canal Transport] or FFN = 510 [Port Control] or FFN = 511 [Maritime Pilotage] or FFN = 512 [Pilot Station] or FFN = 513 [Harbour Control] or FFN = 520 [Air Transport] or FFN = 525 [Air Traffic Control] or FFN = 529 [Transportation Support] or FFN = 530 [Warehousing and Storage] or FFN = 535 [Motor Vehicle Parking] or FFN = 536 [Cargo Handling] or FFN = 539 [Inspection] or FFN = 540 [Postal Activities] or FFN = 541 [Mail and Package Transport] or FFN = 545 [Courier Activities] or FFN = 548 [Short-term Accommodation] or FFN = 549 [Long-term Accommodation] or FFN = 550 [Accommodation] or FFN = 551 [Hotel] or FFN = 552 [Resort Hotel] or FFN = 553 [Motel] or FFN = 554 [Guest-house] or FFN = 555 [Hostel] or FFN = 556 [Dormitory] or FFN = 557 [Vacation Cottage] or FFN = 558 [Dependents Housing] or FFN = 563 [Residence] or FFN = 570 [Food Service] or FFN = 572 [Restaurant] or FFN = 573 [Bar] or FFN = 574 [Dining Hall] or FFN = 578 [Banquet Hall] or FFN = 579 [Convention Centre] or FFN = 580 [Publishing and Broadcasting] or FFN = 582 [Print Publishing] or FFN = 594 [Cinema] or FFN = 601 [Radio Broadcasting] or FFN = 604 [Television Broadcasting] or FFN = 610 [Telecommunications] or FFN = 612 [Retail Telecommunications] or FFN = 614 [Wired Telecommunications] or FFN = 615 [Main Telephone Exchange] or FFN = 616 [Branch Telephone Exchange] or FFN = 617 [Wired Repeater] or FFN = 620 [Wireless Telecommunications] or FFN = 621 [Mobile Phone Service] or FFN = 622 [Wireless Repeater] or FFN = 625 [Satellite Telecommunications] or FFN = 626 [Satellite Ground Control] or FFN = 632 [Information Service] or FFN = 633 [Public Records] or FFN = 640 [Financial Services] or FFN = 642 [Central Banking] or FFN = 643 [Retail Banking] or FFN = 651 [Insurance] or FFN = 662 [Financial Market Administration] or FFN = 663 [Security Brokerage] or FFN = 671 [Fund Management] or FFN = 680 [Real Estate Activities] or FFN = 681 [Professional, Scientific and Technical] or FFN = 691 [Legal Activities] or FFN = 696 [Accounting] or FFN = 701 [Head Office] or FFN = 706 [Business Management] or FFN = 711 [Architecture Consulting] or FFN = 714 [Engineering Design] or FFN = 717 [Surveying] or FFN = 720 [Scientific Research and Development] or FFN = 721 [Observation Station] or FFN = 722 [Weather Station] or FFN = 725 [Nuclear Research Centre] or FFN = 730 [Wind Tunnel] or FFN = 741 [Advertising] or FFN = 752 [Photography] or FFN = 757 [Veterinary] or FFN = 760 [Business and Personal Support Services] or FFN = 761 [Motor Vehicle Rental] or FFN = 770 [Employment Agency] or FFN = 775 [Travel</p> |
|---------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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**Building (AL013) (continued)**

Surface

Agency] or FFN = 780 [Security Enforcement] or FFN = 781 [Guard] or FFN = 791 [Custodial Service] or FFN = 795 [Landscaping Service] or FFN = 801 [Office Administration] or FFN = 807 [Call Centre] or FFN = 809 [Headquarters] or FFN = 810 [Administration] or FFN = 821 [Polling Station] or FFN = 830 [Public Order, Safety and Security Services] or FFN = 831 [Public Order] or FFN = 832 [Safety] or FFN = 833 [Security Services] or FFN = 838 [Military Recruitment] or FFN = 839 [CBRNE Civilian Support] or FFN = 847 [Emergency Operations] or FFN = 848 [Civil Intelligence] or FFN = 864 [Human Tissue Repository] or FFN = 881 [Emergency Shelter] or FFN = 882 [Homeless Shelter] or FFN = 883 [Refugee Shelter] or FFN = 884 [Emergency Youth Shelter] or FFN = 885 [Day Care] or FFN = 887 [Social Work] or FFN = 888 [Emergency Relief Services] or FFN = 890 [Cultural, Arts and Entertainment] or FFN = 891 [Theatre] or FFN = 892 [Auditorium] or FFN = 893 [Community Centre] or FFN = 895 [Night Club] or FFN = 900 [Sports, Amusement and Recreation] or FFN = 902 [Library] or FFN = 906 [Aquarium] or FFN = 907 [Botanical and/or Zoological Reserve Activities] or FFN = 909 [Gambling] or FFN = 912 [Sports Centre] or FFN = 913 [Fitness Centre] or FFN = 914 [Shooting Range] or FFN = 919 [Animal Boarding] or FFN = 921 [Recreation] or FFN = 922 [Amusement] or FFN = 923 [Hobbies and/or Leisure Activities] or FFN = 950 [Membership Organization] or FFN = 954 [Club] or FFN = 955 [Yacht-club] or FFN = 960 [Retail Service] or FFN = 961 [Laundry] or FFN = 962 [Beauty Treatment] or FFN = 963 [Funeral Services] or FFN = 964 [Cremation] or FFN = 965 [Mortuary Services] or FFN = 966 [Adult Entertainment] or FFN = 967 [Storage of Human Remains] or FFN = 970 [Meeting Place] or FFN = 980 [Death Care Services] or FFN = 999 [Other] or FFN = -999999 [No Information]) and (HGT < 46)

**Symbol Sample**



**Symbol Information**

|                                                                                                                 |                                                                                                                           |                                  |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_Important                                                                   |                                  |
|                                                                                                                 | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                                 | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                    |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                    |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                       | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003437  | Building / important / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 27 [Forest Warden] or FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport] or FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 808 [Public Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 822 [Civil Activities] or FFN = 829 [Maritime Defense] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities] or FFN = 840 [Judicial Activities] or FFN = 841 [Law Enforcement] or FFN = 842 [Immigration Control] or FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections] or FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services] or FFN = 894 [Opera House] or FFN = 905 [Museum]) and (HGT < 46) |

**Label Information**

|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>Label Description:</b>            | Building / named (surface)                                    |
| <b>Additional Labeling Criteria:</b> | (Z1005_FNA <> "No Information")                               |
| <b>Label String:</b>                 | [Z1005_FNA]                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                   |
| <b>Label Description:</b>            | Building / forest warden (surface)                            |
| <b>Additional Labeling Criteria:</b> | (Z1005_FNA = "No Information") and (FFN = 27 [Forest Warden]) |
| <b>Label String:</b>                 | "Ranger"                                                      |

**Building (AL013) (continued)**

## Surface

|                                                                   |                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / station (surface)<br>(ZI005_FNA = "No Information") and (FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport])                                                                                                                                                                                                          |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Station"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                               |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / checkpoint (surface)<br>(ZI005_FNA = "No Information") and (FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 842 [Immigration Control])                                                                                                                                                                            |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Checkpoint"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / government (surface)<br>(ZI005_FNA = "No Information") and (FFN = 808 [Public Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 822 [Civil Activities]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Government"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / palace, capitol, opera house, museum (surface)<br>(ZI005_FNA = "No Information") and (FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 894 [Opera House] or FFN = 905 [Museum])                                                                                                                                                           |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [FFN]<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                   |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / military administration (surface)<br>(ZI005_FNA = "No Information") and (FFN = 829 [Maritime Defense] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities])                                                                                                                                   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Military"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / judicial activities (surface)<br>(ZI005_FNA = "No Information") and (FFN = 840 [Judicial Activities])                                                                                                                                                                                                                                       |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Courthouse"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / law enforcement (surface)<br>(ZI005_FNA = "No Information") and (FFN = 841 [Law Enforcement])                                                                                                                                                                                                                                               |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Police"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Building / prison (surface)<br>(ZI005_FNA = "No Information") and (FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections])                                                                                                                                                                                                                       |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Prison"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                |

**Building (AL013) (continued)**

Surface

**Label Description:** Building / fire/rescue (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services])  
**Label String:** "Fire/Rescue"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Police

**Symbol Information**

|                                                                                          |                                                                                                                                                                                              |                                      |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|         | <b>Symbol Graphic Name:</b> PT_Black_Church                                                                                                                                                  |                                      |
|                                                                                          | <b>Apply Label to Symbol:</b> No                                                                                                                                                             |                                      |
|                                                                                          | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                    |                                      |
| <b>Element Name:</b> Black_Church_0.8mmFilledSquare                                      | <b>Element Reference:</b> P00072                                                                                                                                                             | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 0.2mm lineweight cross attached to a Black 0.8mm filled square |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Cross<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square |                                      |
| <b>Element Name:</b> Black_Cross                                                         | <b>Element Reference:</b> P00013                                                                                                                                                             | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black cross                                                          |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cross in Annex H for detailed drawing instructions.                                                                                    |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                             | <b>Element Reference:</b> P00006                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                             |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                  |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003725  | Building / church / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and ((ZI037_RFA = 1 [Cathedral] or ZI037_RFA = 2 [Chapel] or ZI037_RFA = 3 [Church] or ZI037_RFA = 14 [Tabernacle]) or ((ZI037_RFA = 9 [Religious Community] or ZI037_RFA = 11 [Shrine] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information]) and (ZI037_REL = 3 [Roman Catholic] or ZI037_REL = 4 [Christian] or ZI037_REL = 6 [Orthodox] or ZI037_REL = 7 [Protestant] or ZI037_REL = 12 [Nestorian] or ZI037_REL = 13 [Chaldean]))) and (HGT < 46) |

**Symbol Sample**

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**Building (AL013) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                                                                 |                                      |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Mosque                                                                                                                                                     |                                      |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                |                                      |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                       |                                      |
| <b>Element Name:</b> Black_Mosque_0.8mmFilledSquare                                                        | <b>Element Reference:</b> P00070                                                                                                                                                                | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black crescent with a linewidth of 0.2mm attached to a Black 0.8mm filled square.      |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Crescent<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square |                                      |
| <b>Element Name:</b> Black_Crescent                                                                        | <b>Element Reference:</b> P00014                                                                                                                                                                | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black crescent                                                                         |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.                                                                                    |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                               | <b>Element Reference:</b> P00006                                                                                                                                                                | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                               |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                     |                                      |

| Symbol Portrayal Rules |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| R003726                | Building / mosque / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship] or FFN = 932 [Islamic Prayer Hall]) and ((ZI037_RFA = 4 [Marabout] or ZI037_RFA = 5 [Minaret] or ZI037_RFA = 7 [Mosque]) or ((ZI037_RFA = 9 [Religious Community] or ZI037_RFA = 11 [Shrine] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information]) and (ZI037_REL = 2 [Islam] or ZI037_REL = 10 [Shia] or ZI037_REL = 11 [Sunni]))) and (HGT < 46) |

**Symbol Sample**

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| Symbol Information                                                                                           |                                                                                                            |                                    |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Pagoda                                                                |                                    |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                           |                                    |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of open square                                        |                                    |
| <b>Element Name:</b> Black_Pagoda                                                                            | <b>Element Reference:</b> P00019                                                                           | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black pagoda                                                                             |                                                                                                            |                                    |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Pagoda in Annex H for detailed drawing instructions. |                                    |

| Symbol Portrayal Rules |                                          |                                                                                                                                                                                                                                   |
|------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                              | Criteria                                                                                                                                                                                                                          |
| R003727                | Building / pagoda / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 8 [Pagoda] or ZI037_REL = 9 [Hinduism]) and (HGT < 46) |

**Building (AL013) (continued)**

Surface

Symbol Sample

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| Symbol Information                                                                                  |                                                                                             |                             |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------|
| Symbol Graphic<br> | Symbol Graphic Name: PT_Black_Stupa                                                         |                             |
|                                                                                                     | Apply Label to Symbol: No                                                                   |                             |
|                                                                                                     | Symbol Placement Instructions: Origin: Center of symbol                                     |                             |
| Element Name: Black_Stupa                                                                           | Element Reference: P00031                                                                   | Element Type: Point - Shape |
| Description: Black stupa                                                                            |                                                                                             |                             |
| Color Token: Black                                                                                  | Parameters:<br>Note: See Element: Black_Stupa in Annex H for detailed drawing instructions. |                             |

Symbol Portrayal Rules

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                          |
|----------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003728  | Building / stupa / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 12 [Stupa] or ZI037_REL = 1 [Buddhism]) and (HGT < 46) |

Symbol Sample

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| Symbol Information                                                                                    |                                                                                                                                                                        |                               |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Symbol Graphic<br> | Symbol Graphic Name: PT_Black_Synagogue                                                                                                                                |                               |
|                                                                                                       | Apply Label to Symbol: No                                                                                                                                              |                               |
|                                                                                                       | Symbol Placement Instructions: The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                     |                               |
| Element Name: Black_Synagogue_0.8mmFilledSquare                                                       | Element Reference: P00087                                                                                                                                              | Element Type: Point - Complex |
| Description: Black "T" with a lineweight of 0.2mm attached to a Black 0.8mm filled square.            |                                                                                                                                                                        |                               |
| Color Token: Black                                                                                    | Parameters:<br>Point 1 Name: Black_Judaism<br>Point 2 Name: Black_0.8mmFilledSquare<br>Note: Bottom of stem touches the mid-point of the edge of the filled square     |                               |
| Element Name: Black_Judaism                                                                           | Element Reference: P00017                                                                                                                                              | Element Type: Point - Shape   |
| Description: Black 0.2mm lineweight "T" with a 1.1mm overall height                                   |                                                                                                                                                                        |                               |
| Color Token: Black                                                                                    | Parameters:<br>Lineweight: 0.2mm<br>Note: Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm |                               |
| Element Name: Black_0.8mmFilledSquare                                                                 | Element Reference: P00006                                                                                                                                              | Element Type: Point - Simple  |
| Description: Black filled square with all sides 0.8mm                                                 |                                                                                                                                                                        |                               |
| Color Token: Black                                                                                    | Parameters:<br>Length: 0.8mm<br>Note: Square is filled                                                                                                                 |                               |

Symbol Portrayal Rules

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Building (AL013) (continued)**

Surface

R003729 Building / synagogue / small area (surface) (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037\_RFA = 13 [Synagogue] or ZI037\_REL = 5 [Judaism]) and (HGT < 46)

**Symbol Sample**



| Symbol Information                                                                                         |                                                                                                            |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Temple                                                                |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                           |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open rectangle                                     |                                  |
| <b>Element Name:</b> Black_Temple                                                                          |                                                                                                            | <b>Element Reference:</b> P00018 |
| <b>Description:</b> Black temple                                                                           |                                                                                                            |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Temple in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                                    |
|----------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003730  | Building / temple / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 15 [Temple]) and (ZI037_REL = 1 [Buddhism] or ZI037_REL = 8 [Shinto] or ZI037_REL = 9 [Hinduism]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                           |                                                                                                                           |                                  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_HouseOfWorship_Generic                                                      |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                  | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003731  | Building / house of worship / generic / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 6 [Mission] or ZI037_RFA = 18 [Convent] or ZI037_RFA = 19 [Monastery] or ZI037_RFA = 20 [Noviciate] or ZI037_RFA = 21 [Hermitage] or ZI037_RFA = 22 [Retreat] or ZI037_RFA = 23 [Burial Site] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information] or ZI037_REL = 999 [Other] or ZI037_REL = -999999 [No Information]) and (HGT < 46) |

**Label Information**

**Building (AL013) (continued)**

Surface

**Label Description:** Building / house of worship / generic (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "House of worship"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ House of worship

**Symbol Information**

|                                                                                                            |                                                                                                                                                                                              |                                      |  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_School                                                                                                                                                  |                                      |  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                             |                                      |  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                    |                                      |  |
| <b>Element Name:</b> Black_School_0.8mmFilledSquare                                                        | <b>Element Reference:</b> P00128                                                                                                                                                             | <b>Element Type:</b> Point - Complex |  |
| <b>Description:</b> Black flag attached to a Black 0.8mm filled square                                     |                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Flag<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square. |                                      |  |
| <b>Element Name:</b> Black_Flag                                                                            | <b>Element Reference:</b> P00016                                                                                                                                                             | <b>Element Type:</b> Point - Shape   |  |
| <b>Description:</b> Black flag                                                                             |                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Flag in Annex H for detailed drawing instructions.                                                                                     |                                      |  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                               | <b>Element Reference:</b> P00006                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                               |                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                  |                                      |  |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                                                                                                                      |
|----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003732  | Building / school / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 850 [Education] or FFN = 851 [Primary Education] or FFN = 852 [Secondary Education] or FFN = 855 [Higher Education] or FFN = 857 [Vocational Education] or FFN = 859 [Institution] or ZI037_RFA = 10 [Seminary]) and (HGT < 46) |

**Symbol Sample**

⊕

**Symbol Information**

|                                                                                                              |                                                                                                                                  |  |  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Hospital                                                                                    |  |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                 |  |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Center of cross |  |  |

**Building (AL013) (continued)**

Surface

|                                                                                                                            |                                                                                                                                                                                                               |                                    |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_HospitalCross                                                                                   | <b>Element Reference:</b> P00012                                                                                                                                                                              | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black 1.75mm diameter filled circle with a 1.25mm (0.25mm lineweight) paper white plus centered inside |                                                                                                                                                                                                               |                                    |
| <b>Color Token:</b> Black                                                                                                  | <b>Parameters:</b><br><b>Diameter:</b> 1.75mm<br><b>Lineweight:</b> 0.25mm<br><b>Note:</b> The 1.25mm (0.25mm lineweight) paper white plus symbol is centered inside the black 1.75mm diameter filled circle. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                                                                                                                                                                                                      |
|----------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003669  | Building / hospital / small area (surface) | (LZN > 124 and LZN < 375) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 860 [Human Health Activities] or FFN = 861 [In-patient Care] or FFN = 863 [Urgent Medical Care]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                            |                                                               |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Health_Office            |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                              |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of cross |

|                                                                                                                                    |                                                                                                                                            |                                     |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_CircleOpenWithPlus                                                                                      | <b>Element Reference:</b> P00134                                                                                                           | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.75mm diameter open circle with a 0.1mm lineweight and a 0.35mm lineweight plus symbol centered inside. |                                                                                                                                            |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.75mm<br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> Plus symbol centered inside is 0.35mm lineweight |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                                                                                                                                                                                                             |
|----------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003668  | Building / health office / small area (surface) | (LZN > 124 and LZN < 375) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 862 [Out-patient Care] or FFN = 865 [Public Health Activities] or FFN = 866 [Leprosy Care] or FFN = 871 [Intermediate Care] or FFN = 873 [Psychiatric In-patient Care] or FFN = 875 [Residential Care]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_Diplomatic                                                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                          |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |

**Building (AL013) (continued)**

Surface

|                                                                                                                |                                                                                                                                                                                                 |                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Black_Diplomatic_0.8mmFilledSquare                                                        | <b>Element Reference:</b> P00190                                                                                                                                                                | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black square open flag attached centered along the side of a filled square all sides 0.8mm |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_OpenSquareFlag<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the feature |                                      |
| <b>Element Name:</b> Black_OpenSquareFlag                                                                      | <b>Element Reference:</b> P00185                                                                                                                                                                | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black open square flag                                                                     |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_OpenSquareFlag in Annex H for detailed drawing instructions.                                                                              |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   | <b>Element Reference:</b> P00006                                                                                                                                                                | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                     |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                                  | Criteria                                                                                                                                                                                                     |
|----------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003733  | Building / diplomatic / small area (surface) | (LZN > 124 and LZN < 200) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 825 [Diplomacy] or FFN = 826 [Diplomatic Mission] or FFN = 827 [Embassy] or FFN = 828 [Consul]) and (HGT < 46) |

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                  |                                                                                                                           |                                     |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_Generic                                                                     |                                     |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                     |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     | <b>Element Reference:</b> P00006                                                                                          | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                                                                           |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

## Building (AL013) (continued)

## Point

|         |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|---------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| R003409 | Building / generic / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 2 [Agriculture] or FFN = 3 [Growing of Crops] or FFN = 9 [Raising of Animals] or FFN = 14 [Grazing] or FFN = 27 [Forest Warden] or FFN = 35 [Aquaculture] or FFN = 40 [Mining and Quarrying] or FFN = 95 [Ore Dressing] or FFN = 99 [Manufacturing] or FFN = 100 [Food Product Manufacture] or FFN = 101 [Food Processing] or FFN = 102 [Meat Processing] or FFN = 103 [Seafood Processing] or FFN = 104 [Fruit and/or Vegetable Processing] or FFN = 105 [Oil-mill] or FFN = 106 [Dairying] or FFN = 107 [Grain Milling] or FFN = 110 [Baking] or FFN = 111 [Sugar Manufacture] or FFN = 112 [Sugar Milling] or FFN = 113 [Sugar Refining] or FFN = 114 [Confection Manufacture] or FFN = 115 [Pasta Manufacture] or FFN = 116 [Prepared Meal Manufacture] or FFN = 118 [Beverage Manufacture] or FFN = 119 [Animal Feed Manufacture] or FFN = 120 [Ice Manufacture] or FFN = 121 [Spirit Distillery] or FFN = 122 [Winery] or FFN = 123 [Brewing] or FFN = 124 [Soft Drink Manufacture] or FFN = 125 [Tobacco Product Manufacture] or FFN = 129 [Textile, Apparel and Leather Manufacture] or FFN = 130 [Textile Manufacture] or FFN = 140 [Apparel Manufacture] or FFN = 150 [Leather Product Manufacture] or FFN = 155 [Footwear Manufacturing] or FFN = 160 [Wood-based Manufacturing] or FFN = 161 [Sawmilling] or FFN = 165 [Wooden Construction Product Manufacture] or FFN = 171 [Paper-mill] or FFN = 181 [Printing] or FFN = 190 [Petroleum and Coal Products Manufacturing] or FFN = 191 [Coke Manufacture] or FFN = 192 [Petroleum Refining] or FFN = 195 [Chemical Manufacture] or FFN = 210 [Medicinal Product Manufacture] or FFN = 221 [Rubber Product Manufacture] or FFN = 225 [Plastic Product Manufacture] or FFN = 230 [Nonmetallic Mineral Product Manufacturing] or FFN = 231 [Glass Product Manufacture] or FFN = 232 [Refractory Product Manufacture] or FFN = 233 [Clay Product Manufacture] or FFN = 234 [Ceramic Product Manufacture] or FFN = 235 [Cement Mill] or FFN = 236 [Cement Product Manufacture] or FFN = 237 [Stone Product Manufacture] or FFN = 240 [Primary Metal Manufacturing] or FFN = 241 [Steel Mill] or FFN = 242 [Metal Refining] or FFN = 243 [Foundry] or FFN = 250 [Metal Product Manufacturing] or FFN = 251 [Structural Metal Product Manufacture] or FFN = 255 [Munitions Manufacture] or FFN = 257 [Fabricated Metal Product Manufacture] or FFN = 260 [Electronic Equipment Manufacture] or FFN = 270 [Electrical Equipment Manufacture] or FFN = 272 [Propane Sale] or FFN = 280 [Machinery Manufacture] or FFN = 289 [Transportation Equipment Manufacturing] or FFN = 290 [Motor Vehicle Manufacture] or FFN = 301 [Ship Construction] or FFN = 304 [Railway Vehicle Manufacture] or FFN = 305 [Aircraft Manufacture] or FFN = 306 [Military Vehicle Manufacture] or FFN = 310 [Furniture Manufacture] or FFN = 320 [Miscellaneous Manufacturing] or FFN = 321 [Jewellery Manufacture] or FFN = 322 [Musical Instrument Manufacture] or FFN = 323 [Sports Goods Manufacture] or FFN = 324 [Game and/or Toy Manufacture] or FFN = 325 [Medical and/or Dental Equipment Manufacture] or FFN = 330 [General Repair] or FFN = 331 [Fabricated Metal Product Repair] or FFN = 332 [Electronic Equipment Repair] or FFN = 333 [Electrical Equipment Repair] or FFN = 334 [Machinery Repair] or FFN = 340 [Ship Repair] or FFN = 341 [Aircraft Repair] or FFN = 342 [Railway Vehicle Repair] or FFN = 343 [Motor Vehicle Repair] or FFN = 350 [Utilities] or FFN = 351 [Power Generation] or FFN = 352 [Climate Control] or FFN = 355 [Cooling] or FFN = 356 [Heating] or FFN = 360 [Water Supply] or FFN = 362 [Water Treatment] or FFN = 363 [Water Distribution] or FFN = 370 [Sewerage] or FFN = 372 [Sewerage Screening] or FFN = 382 [Restroom] or FFN = 383 [Waste Treatment and Disposal] or FFN = 385 [Materials Recovery] or FFN = 440 [Commerce] or FFN = 459 [Wholesale Merchant] or FFN = 460 [Retail Sale] or FFN = 464 [Specialized Store] or FFN = 465 [Non-specialized Store] or FFN = 466 [Convenience Store] or FFN = 470 [Petrol Sale] or FFN = 473 [Sales Yard] or FFN = 474 [Precious Metal Merchant] or FFN = 475 [Market] or FFN = 476 [Grocery] or FFN = 477 [Pharmacy] or FFN = 478 [Pet-shop] or FFN = 480 [Transport] or FFN = 481 [Terminal] or FFN = 482 [Station] or FFN = 483 [Stop] or FFN = 484 [Transfer Hub] or FFN = 486 [Signalling] or FFN = 487 [Transport System Maintenance] or FFN = 488 [Navigation] or FFN = 489 [Transportation Hub] or FFN = 494 [Pedestrian Transport] or FFN = 495 [Road Transport] or FFN = 496 [Road Passenger Transport] or FFN = 497 [Road Freight Transport] or FFN = 500 [Pipeline Transport] or FFN = 501 [Pumping] or FFN = 505 [Water Transport] or FFN = 507 [Inland Waters Transport] or FFN = 508 [Canal Transport] or FFN = 510 [Port Control] or FFN = 511 [Maritime Pilotage] or FFN = 512 [Pilot Station] or FFN = 513 [Harbour Control] or FFN = 520 [Air Transport] or FFN = 525 [Air Traffic Control] or FFN = 529 [Transportation Support] or FFN = 530 [Warehousing and Storage] or FFN = 535 [Motor Vehicle Parking] or FFN = 536 [Cargo Handling] or FFN = 539 [Inspection] or FFN = 540 [Postal Activities] or FFN = 541 [Mail and Package Transport] or FFN = 545 [Courier Activities] or FFN = 548 [Short-term Accommodation] or FFN = 549 [Long-term Accommodation] or FFN = 550 [Accommodation] or FFN = 551 [Hotel] or FFN = 552 [Resort Hotel] or FFN = 553 [Motel] or FFN = 554 [Guest-house] or FFN = 555 [Hostel] or FFN = 556 [Dormitory] or FFN = 557 [Vacation Cottage] or FFN = 558 [Dependents Housing] or FFN = 563 [Residence] or FFN = 570 [Food Service] or FFN = 572 [Restaurant] or FFN = 573 [Bar] or FFN = 574 [Dining Hall] or FFN = 578 [Banquet Hall] or FFN = 579 [Convention Centre] or FFN = 580 [Publishing and Broadcasting] or FFN = 582 [Print Publishing] or FFN = 594 [Cinema] or FFN = 601 [Radio Broadcasting] or FFN = 604 [Television Broadcasting] or FFN = 610 [Telecommunications] or FFN = 612 [Retail Telecommunications] or FFN = 614 [Wired Telecommunications] or FFN = 615 [Main Telephone Exchange] or FFN = 616 [Branch Telephone Exchange] or FFN = 617 [Wired Repeater] or FFN = 620 [Wireless Telecommunications] or FFN = 621 [Mobile Phone Service] or FFN = 622 [Wireless Repeater] or FFN = 625 [Satellite Telecommunications] or FFN = 626 [Satellite Ground Control] or FFN = 632 [Information Service] or FFN = 633 [Public Records] or FFN = 640 [Financial Services] or FFN = 642 [Central Banking] or FFN = 643 [Retail Banking] or FFN = 651 [Insurance] or FFN = 662 [Financial Market Administration] or FFN = 663 [Security Brokerage] or FFN = 671 [Fund Management] or FFN = 680 [Real Estate Activities] or FFN = 691 [Legal Activities] or FFN = 696 [Accounting] or FFN = 701 [Head Office] or FFN = 706 [Business Management] or FFN = 711 [Architecture Consulting] or FFN = 714 [Engineering Design] or FFN = 717 [Surveying] or FFN = 720 [Scientific Research and Development] or FFN = 721 [Observation Station] or FFN = 722 [Weather Station] or FFN = 725 [Nuclear Research Centre] or FFN = 730 [Wind Tunnel] or FFN = 741 [Advertising] or FFN = 752 [Photography] or FFN = 757 [Veterinary] or FFN = 760 [Business and Personal Support Services] or FFN = 761 [Motor Vehicle Rental] or FFN = 770 [Employment |
|---------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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## Building (AL013) (continued)

## Point

Agency] or FFN = 775 [Travel Agency] or FFN = 780 [Security Enforcement] or FFN = 781 [Guard] or FFN = 791 [Custodial Service] or FFN = 795 [Landscaping Service] or FFN = 801 [Office Administration] or FFN = 807 [Call Centre] or FFN = 808 [Public Administration] or FFN = 809 [Headquarters] or FFN = 810 [Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 821 [Polling Station] or FFN = 822 [Civil Activities] or FFN = 829 [Maritime Defense] or FFN = 830 [Public Order, Safety and Security Services] or FFN = 831 [Public Order] or FFN = 832 [Safety] or FFN = 833 [Security Services] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities] or FFN = 838 [Military Recruitment] or FFN = 839 [CBRNE Civilian Support] or FFN = 840 [Judicial Activities] or FFN = 841 [Law Enforcement] or FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections] or FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services] or FFN = 847 [Emergency Operations] or FFN = 848 [Civil Intelligence] or FFN = 864 [Human Tissue Repository] or FFN = 881 [Emergency Shelter] or FFN = 882 [Homeless Shelter] or FFN = 883 [Refugee Shelter] or FFN = 884 [Emergency Youth Shelter] or FFN = 885 [Day Care] or FFN = 887 [Social Work] or FFN = 888 [Emergency Relief Services] or FFN = 890 [Cultural, Arts and Entertainment] or FFN = 891 [Theatre] or FFN = 892 [Auditorium] or FFN = 893 [Community Centre] or FFN = 894 [Opera House] or FFN = 895 [Night Club] or FFN = 900 [Sports, Amusement and Recreation] or FFN = 902 [Library] or FFN = 905 [Museum] or FFN = 906 [Aquarium] or FFN = 907 [Botanical and/or Zoological Reserve Activities] or FFN = 909 [Gambling] or FFN = 912 [Sports Centre] or FFN = 913 [Fitness Centre] or FFN = 914 [Shooting Range] or FFN = 919 [Animal Boarding] or FFN = 921 [Recreation] or FFN = 922 [Amusement] or FFN = 923 [Hobbies and/or Leisure Activities] or FFN = 950 [Membership Organization] or FFN = 954 [Club] or FFN = 955 [Yacht-club] or FFN = 960 [Retail Service] or FFN = 961 [Laundry] or FFN = 962 [Beauty Treatment] or FFN = 963 [Funeral Services] or FFN = 964 [Cremation] or FFN = 965 [Mortuary Services] or FFN = 966 [Adult Entertainment] or FFN = 967 [Storage of Human Remains] or FFN = 970 [Meeting Place] or FFN = 980 [Death Care Services] or FFN = 999 [Other] or FFN = -999999 [No Information]) and (HGT < 46)

## Label Information

**Label Description:** Building / named (point)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information")

**Label String:** [ZI005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Building / forest warden (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 27 [Forest Warden])

**Label String:** "Ranger"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Building / government (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 808 [Public Administration] or FFN = 811 [Government] or FFN = 812 [Local Government] or FFN = 813 [Subnational Government] or FFN = 814 [National Government] or FFN = 818 [Executive Activities] or FFN = 819 [Legislative Activities] or FFN = 822 [Civil Activities])

**Label String:** "Government"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Building / palace, capitol, opera house, museum (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 815 [Palace] or FFN = 817 [Capitol] or FFN = 894 [Opera House] or FFN = 905 [Museum])

**Label String:** [FFN]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Building / military administration (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 829 [Maritime Defense] or FFN = 835 [Defence Activities] or FFN = 836 [Armory] or FFN = 837 [Military Reserve Activities])

**Label String:** "Military"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Building / courthouse (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (FFN = 840 [Judicial Activities])

**Label String:** "Courthouse"  
**Characteristics:** 1

**Building (AL013) (continued)**

**Point**

|                                      |                                                                                                              |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                      | 1 (Black, Condensed, 6 pt, Mixed case)                                                                       |
| <b>Label Description:</b>            | Building / law enforcement (point)                                                                           |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 841 [Law Enforcement])                                             |
| <b>Label String:</b>                 | "Police"                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                  |
| <b>Label Description:</b>            | Building / imprisonment (point)                                                                              |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 843 [Imprisonment] or FFN = 844 [Juvenile Corrections])            |
| <b>Label String:</b>                 | "Prison"                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                  |
| <b>Label Description:</b>            | Building / firefighting (point)                                                                              |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (FFN = 845 [Firefighting] or FFN = 846 [Rescue and Paramedical Services]) |
| <b>Label String:</b>                 | "Fire/Rescue"                                                                                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                  |

**Symbol Sample**

■ Palace

| Symbol Information                                                                       |                                                                                                                                                                                              |                                      |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|       | <b>Symbol Graphic Name:</b> PT_Black_Church                                                                                                                                                  |                                      |
|                                                                                          | <b>Apply Label to Symbol:</b> No                                                                                                                                                             |                                      |
|                                                                                          | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                    |                                      |
| <b>Element Name:</b> Black_Church_0.8mmFilledSquare                                      | <b>Element Reference:</b> P00072                                                                                                                                                             | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 0.2mm lineweight cross attached to a Black 0.8mm filled square |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Cross<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square |                                      |
| <b>Element Name:</b> Black_Cross                                                         | <b>Element Reference:</b> P00013                                                                                                                                                             | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black cross                                                          |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cross in Annex H for detailed drawing instructions.                                                                                    |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                             | <b>Element Reference:</b> P00006                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                             |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                                                | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                  |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003417  | Building / church / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and ((ZI037_RFA = 1 [Cathedral] or ZI037_RFA = 2 [Chapel] or ZI037_RFA = 3 [Church] or ZI037_RFA = 14 [Tabernacle]) or ((ZI037_RFA = 9 [Religious Community] or ZI037_RFA = 11 [Shrine] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information]) and (ZI037_REL = 3 [Roman Catholic] or ZI037_REL = 4 [Christian] or ZI037_REL = 6 [Orthodox] or ZI037_REL = 7 [Protestant] or ZI037_REL = 12 [Nestorian] or ZI037_REL = 13 [Chaldean]))) and (HGT < 46) |

**Building (AL013) (continued)**

Point

**Symbol Sample**

†

| Symbol Information                                                                                             |                                                                                                                         |                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Marabout_MuslimShrine                                                              |                                      |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                        |                                      |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of open circle |                                      |
| <b>Element Name:</b> Black_Marabout                                                                            | <b>Element Reference:</b> P00015                                                                                        | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 0.2mm crescent attached to a 0.8mm diameter open circle.                             |                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Crescent<br><b>Point 2 Name:</b> Black_0.8mmOpenCircle                 |                                      |
| <b>Element Name:</b> Black_Crescent                                                                            | <b>Element Reference:</b> P00014                                                                                        | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black crescent                                                                             |                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.            |                                      |
| <b>Element Name:</b> Black_0.8mmOpenCircle                                                                     | <b>Element Reference:</b> P00103                                                                                        | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black 0.8mm diameter open circle with a lineweight of 0.15mm                               |                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Diameter:</b> 0.8mm<br><b>Lineweight:</b> 0.15mm                                               |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                                                                                                                                                                                                          |
|----------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003415  | Building / marabout / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and ((Z1037_RFA = 4 [Marabout]) or ((Z1037_RFA = 11 [Shrine]) and (Z1037_REL = 2 [Islam] or Z1037_REL = 10 [Shia] or Z1037_REL = 11 [Sunni]))) and (HGT < 46) |

**Symbol Sample**

‡

| Symbol Information                                                                                               |                                                                                                                 |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Minaret                                                                    |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of dot |  |

**Building (AL013) (continued)**

Point

|                                                                                                                                    |                                                                                                                                                |                                      |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Black_Minaret                                                                                                 | <b>Element Reference:</b> P00184                                                                                                               | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 0.2mm crescent attached to a Black open circle with a filled dot.                                        |                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Crescent<br><b>Point 2 Name:</b> Black_OpenCircleWithDot                                      |                                      |
| <b>Element Name:</b> Black_Crescent                                                                                                | <b>Element Reference:</b> P00014                                                                                                               | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black crescent                                                                                                 |                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.                                   |                                      |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       | <b>Element Reference:</b> P00010                                                                                                               | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                           | Criteria                                                                                                                                                                                         |
|----------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003421  | Building / minaret / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (Z1037_RFA = 5 [Minaret]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                 |                                      |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Mosque                                                                                                                                                     |                                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                                                                                |                                      |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                       |                                      |
| <b>Element Name:</b> Black_Mosque_0.8mmFilledSquare                                                          | <b>Element Reference:</b> P00070                                                                                                                                                                | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black crescent with a lineweight of 0.2mm attached to a Black 0.8mm filled square.       |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Crescent<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square |                                      |
| <b>Element Name:</b> Black_Crescent                                                                          | <b>Element Reference:</b> P00014                                                                                                                                                                | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black crescent                                                                           |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.                                                                                    |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 | <b>Element Reference:</b> P00006                                                                                                                                                                | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                                                                                                                                                 |                                      |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                     |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003422  | Building / mosque / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship] or FFN = 932 [Islamic Prayer Hall]) and ((Z1037_RFA = 7 [Mosque]) or ((Z1037_RFA = 9 [Religious Community] or Z1037_RFA = 999 [Other] or Z1037_RFA = -999999 [No Information]) and (Z1037_REL = 2 [Islam] or Z1037_REL = 10 [Shia] or Z1037_REL = 11 [Sunni]))) and (HGT < 46) |

**Building (AL013) (continued)**

Point

**Symbol Sample**



| Symbol Information                                                                                         |                                                                                                            |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Pagoda                                                                |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                           |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open square                                        |                                  |
| <b>Element Name:</b> Black_Pagoda                                                                          |                                                                                                            | <b>Element Reference:</b> P00019 |
| <b>Description:</b> Black pagoda                                                                           |                                                                                                            |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Pagoda in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                    |
|----------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003418  | Building / pagoda / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 8 [Pagoda] or ZI037_REL = 9 [Hinduism]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                           |                                                                                                           |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Stupa                                                                |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                          |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of symbol                                            |                                  |
| <b>Element Name:</b> Black_Stupa                                                                             |                                                                                                           | <b>Element Reference:</b> P00031 |
| <b>Description:</b> Black stupa                                                                              |                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Stupa in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                                                                                                                                                                                                                    |
|----------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003420  | Building / stupa / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 12 [Stupa] or ZI037_REL = 1 [Buddhism]) and (HGT < 46) |

**Symbol Sample**



**Building (AL013) (continued)**

Point

| Symbol Information                                                                                         |                                                                                                                                                                                                |                                      |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Synagogue                                                                                                                                                 |                                      |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                               |                                      |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                      |                                      |
| <b>Element Name:</b> Black_Synagogue_0.8mmFilledSquare                                                     | <b>Element Reference:</b> P00087                                                                                                                                                               | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black "T" with a linewidth of 0.2mm attached to a Black 0.8mm filled square.           |                                                                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Judaism<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square |                                      |
| <b>Element Name:</b> Black_Judaism                                                                         | <b>Element Reference:</b> P00017                                                                                                                                                               | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black 0.2mm linewidth "T" with a 1.1mm overall height                                  |                                                                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm<br><b>Note:</b> Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm    |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                               | <b>Element Reference:</b> P00006                                                                                                                                                               | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                               |                                                                                                                                                                                                |                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                    |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                       |
|----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003416  | Building / synagogue / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (Z1037_RFA = 13 [Synagogue] or Z1037_REL = 5 [Judaism]) and (HGT < 46) |

**Symbol Sample**

I

| Symbol Information                                                                                           |                                                                                                            |                                    |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Temple                                                                |                                    |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                           |                                    |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of open rectangle                                     |                                    |
| <b>Element Name:</b> Black_Temple                                                                            | <b>Element Reference:</b> P00018                                                                           | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black temple                                                                             |                                                                                                            |                                    |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Temple in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                                              |
|----------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003419  | Building / temple / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (Z1037_RFA = 15 [Temple]) and (Z1037_REL = 1 [Buddhism] or Z1037_REL = 8 [Shinto] or Z1037_REL = 9 [Hinduism]) and (HGT < 46) |

**Building (AL013) (continued)**

Point

**Symbol Sample**

■

| Symbol Information                                                                                             |                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Building_HouseOfWorship_Generic                                                      |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                           |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                                        |                                  |
|                                                                                                                | <b>Length:</b> 0.8mm                                                                                                      |                                  |
|                                                                                                                | <b>Note:</b> Square is filled                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003647  | Building / house of worship / generic / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 930 [Religious Activities] or FFN = 931 [Place of Worship]) and (ZI037_RFA = 6 [Mission] or ZI037_RFA = 18 [Convent] or ZI037_RFA = 19 [Monastery] or ZI037_RFA = 20 [Noviciate] or ZI037_RFA = 21 [Hermitage] or ZI037_RFA = 22 [Retreat] or ZI037_RFA = 23 [Burial Site] or ZI037_RFA = 999 [Other] or ZI037_RFA = -999999 [No Information] or ZI037_REL = 999 [Other] or ZI037_REL = -999999 [No Information]) and (HGT < 46) |

**Label Information**

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| <b>Label Description:</b>            | Building / house of worship / generic (point) |
| <b>Additional Labeling Criteria:</b> | N/A                                           |
| <b>Label String:</b>                 | "House of worship"                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)   |

**Symbol Sample**

■ House of worship

| Symbol Information                                                                                               |                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_School                                                                               |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                          |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |

**Building (AL013) (continued)**

**Point**

|                                                                        |                                                                                                                                                                                              |                                      |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Black_School_0.8mmFilledSquare                    | <b>Element Reference:</b> P00128                                                                                                                                                             | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black flag attached to a Black 0.8mm filled square |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                              | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_Flag<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square. |                                      |
| <b>Element Name:</b> Black_Flag                                        | <b>Element Reference:</b> P00016                                                                                                                                                             | <b>Element Type:</b> Point - Shape   |
| <b>Description:</b> Black flag                                         |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                              | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Flag in Annex H for detailed drawing instructions.                                                                                     |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                           | <b>Element Reference:</b> P00006                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm           |                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Black                                              | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                  |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003414  | Building / school / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 850 [Education] or FFN = 851 [Primary Education] or FFN = 852 [Secondary Education] or FFN = 855 [Higher Education] or FFN = 857 [Vocational Education] or FFN = 859 [Institution] or ZI037_RFA = 10 [Seminary]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                            |                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br>               | <b>Symbol Graphic Name:</b> PT_Black_Hospital                                                                                                                                                                 |
|                                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                              |
|                                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of cross                                                                                                                                                 |
| <b>Element Name:</b> Black_HospitalCross                                                                                   |                                                                                                                                                                                                               |
| <b>Element Reference:</b> P00012                                                                                           |                                                                                                                                                                                                               |
| <b>Element Type:</b> Point - Shape                                                                                         |                                                                                                                                                                                                               |
| <b>Description:</b> Black 1.75mm diameter filled circle with a 1.25mm (0.25mm lineweight) paper white plus centered inside |                                                                                                                                                                                                               |
| <b>Color Token:</b> Black                                                                                                  | <b>Parameters:</b><br><b>Diameter:</b> 1.75mm<br><b>Lineweight:</b> 0.25mm<br><b>Note:</b> The 1.25mm (0.25mm lineweight) paper white plus symbol is centered inside the black 1.75mm diameter filled circle. |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                                                                                                |
|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003413  | Building / hospital / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 860 [Human Health Activities] or FFN = 861 [In-patient Care] or FFN = 863 [Urgent Medical Care]) and (HGT < 46) |

**Symbol Sample**



**Building (AL013) (continued)**

Point

| Symbol Information                                                                                                                 |                                                                                                                                            |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                         | <b>Symbol Graphic Name:</b> PT_Black_Health_Office                                                                                         |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> No                                                                                                           |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of cross                                                                              |                                  |
| <b>Element Name:</b> Black_CircleOpenWithPlus                                                                                      |                                                                                                                                            | <b>Element Reference:</b> P00134 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                                                                                            |                                  |
| <b>Description:</b> Black 1.75mm diameter open circle with a 0.1mm lineweight and a 0.35mm lineweight plus symbol centered inside. |                                                                                                                                            |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.75mm<br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> Plus symbol centered inside is 0.35mm lineweight |                                  |

| Symbol Portrayal Rules |                                             |                                                                                                                                                                                                                                                                                                                |
|------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                                 | Criteria                                                                                                                                                                                                                                                                                                       |
| R003432                | Building / health office / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 862 [Out-patient Care] or FFN = 865 [Public Health Activities] or FFN = 866 [Leprosy Care] or FFN = 871 [Intermediate Care] or FFN = 873 [Psychiatric In-patient Care] or FFN = 875 [Residential Care]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                             |                                                                                                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>   | <b>Symbol Graphic Name:</b> PT_Black_Building_Diplomatic                                                                                                                                        |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                                                                                                |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square                                                                       |                                  |
| <b>Element Name:</b> Black_Diplomatic_0.8mmFilledSquare                                                        |                                                                                                                                                                                                 | <b>Element Reference:</b> P00190 |
| <b>Element Type:</b> Point - Complex                                                                           |                                                                                                                                                                                                 |                                  |
| <b>Description:</b> Black square open flag attached centered along the side of a filled square all sides 0.8mm |                                                                                                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_OpenSquareFlag<br><b>Point 2 Name:</b> Black_0.8mmFilledSquare<br><b>Note:</b> Bottom of stem touches the mid-point of the edge of the feature |                                  |
| <b>Element Name:</b> Black_OpenSquareFlag                                                                      |                                                                                                                                                                                                 | <b>Element Reference:</b> P00185 |
| <b>Element Type:</b> Point - Shape                                                                             |                                                                                                                                                                                                 |                                  |
| <b>Description:</b> Black open square flag                                                                     |                                                                                                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_OpenSquareFlag in Annex H for detailed drawing instructions.                                                                              |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                                                                                                 | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                                                                                                 |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                     |                                  |

| Symbol Portrayal Rules |                                          |                                                                                                                                                                                                        |
|------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                              | Criteria                                                                                                                                                                                               |
| R003476                | Building / diplomatic / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 825 [Diplomacy] or FFN = 826 [Diplomatic Mission] or FFN = 827 [Embassy] or FFN = 828 [Consul]) and (HGT < 46) |

**Building (AL013) (continued)**

Point

**Symbol Sample**



| Symbol Information                                                                                         |                                                                                                                |                                    |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Customs_Checkpoint                                                        |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                               |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open rectangle                                         |                                    |
| <b>Element Name:</b> Black_Checkpoint                                                                      | <b>Element Reference:</b> P00132                                                                               | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black checkpoint                                                                       |                                                                                                                |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Checkpoint in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                      | Criteria                                                                                                                                                                                              |
|----------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003431  | Building / customs checkpoint / landmark (point) | (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 842 [Immigration Control]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                           |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br>                                                         | <b>Symbol Graphic Name:</b> PT_Black_TransportationStation                                                                                                                                                                                                                                                                |                                      |
|                                                                                                                                                                      | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                                                          |                                      |
|                                                                                                                                                                      | <b>Symbol Placement Instructions:</b> The point symbol is centered on top of and aligned with railway symbol. Origin: Center of open square                                                                                                                                                                               |                                      |
| <b>Element Name:</b> Passenger-Terminal                                                                                                                              | <b>Element Reference:</b> P00079                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> A Black 0.8mm filled square inside of a larger open square. The smaller filled square is centered along and touching one side of the open square |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_0.8mmFilledSquare<br><b>Point 2 Name:</b> Black_0.1mm-1.2mmwideSquareOpen<br><b>Note:</b> Point element "Black_SquareFilled" positioned inside the open square, touching side of open square that is parallel to railway track on the same side as the terminal building |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                                                                         | <b>Element Reference:</b> P00006                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                                                                         |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                                                                                                                                               |                                      |
| <b>Element Name:</b> Black_0.1mm-1.2mmwideSquareOpen                                                                                                                 | <b>Element Reference:</b> P00033                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black open square (0.1mm wt, 1.2mm long/wide)                                                                                                    |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Length:</b> 1.2mm<br><b>Lineweight:</b> 0.1mm                                                                                                                                                                                                                                                    |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Building (AL013) (continued)**

Point

R003479 Building / railway station / landmark (point) (LMC = 1001 [True]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport]) and (HGT < 46)

**Symbol Sample**



**Built-Up\_Area (AL020)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                                |                                    |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815-42_BUA_Dense                                                                                                       |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                    |
| <b>Element Name:</b> Dk-Brown1815-42_ScreenFill                                                            | <b>Element Reference:</b> A00005                                                                                                                               | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Dk-Brown1815-42 Area Fill (Dk-Brown1815 42% screen, 45 degree angle)                   |                                                                                                                                                                |                                    |
| <b>Color Token:</b> Dk-Brown1815-42                                                                        | <b>Parameters:</b>                                                                                                                                             |                                    |
|                                                                                                            | <b>Screen Angle:</b> 45 degrees                                                                                                                                |                                    |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                  | <b>Element Reference:</b> L00007                                                                                                                               | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                      |                                                                                                                                                                |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                                                                             |                                    |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                                                                       |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003068  | Built Up Area / all (surface) | ALL      |

**Label Information**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Built-Up Area / dense / 1st class (surface)             |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [Z1005_FNA1] "["[Z1005_FNA2]"                           |
| <b>Characteristics:</b>              | 47,47<br>47 (Black, Condensed, Bold, 14 pt, Upper case) |
| <b>Label Description:</b>            | Built-Up Area / dense / 2nd class (surface)             |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [Z1005_FNA1] "["[Z1005_FNA2]"                           |
| <b>Characteristics:</b>              | 48,48<br>48 (Black, Condensed, Bold, 10 pt, Upper case) |
| <b>Label Description:</b>            | Built-Up Area / dense / 3rd class (surface)             |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [Z1005_FNA1] "["[Z1005_FNA2]"                           |
| <b>Characteristics:</b>              | 49,49<br>49 (Black, Condensed, Bold, 10 pt, Mixed case) |
| <b>Label Description:</b>            | Built-Up Area / dense / 4th class (surface)             |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [Z1005_FNA1] "["[Z1005_FNA2]"                           |
| <b>Characteristics:</b>              | 50,50<br>50 (Black, Condensed, 10 pt, Mixed case)       |

**Built-Up\_Area (AL020) (continued)**

Surface

Symbol Sample



Point

Symbol Information

|                                                                                                            |                                                                     |                                  |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Built-upArea                         |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                   |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open circle |                                  |
| <b>Element Name:</b> Black_1.2mmOpenCircle                                                                 |                                                                     | <b>Element Reference:</b> P00210 |
| <b>Element Type:</b> Point - Simple                                                                        |                                                                     |                                  |
| <b>Description:</b> Black 1.2mm diameter open circle with a lineweight of 0.1mm                            |                                                                     |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                  |                                  |
|                                                                                                            | <b>Diameter:</b> 1.2mm                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                            |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003072  | Built Up Area / all (point) | ALL      |

Label Information

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Built-Up Area / all (point)                            |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA1] ("([Z1005_FNA2])")                        |
| <b>Characteristics:</b>              | 42,42,42,42<br>42 (Black, Condensed, 8 pt, Mixed case) |

Symbol Sample



o Monroe

**Cable (AT005)**

Curve

Symbol Information

|                                                                                                              |                                                                                                       |  |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_Cable_Other                                                      |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                      |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |

**Cable (AT005) (continued)**

Curve

|                                                                                                                                       |                                                                                                                                                           |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_0.15mmSolidLine-0.35mmDots                                                                                 | <b>Element Reference:</b> L00323                                                                                                                          | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with repeating Black 0.35mm diameter filled dots centered along the line at 5.0mm spacing |                                                                                                                                                           |                                     |
| <b>Color Token:</b> Black                                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.35mmFilledDot<br><b>Repeating Point Interval:</b> 5.0mm |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                                                            | <b>Element Reference:</b> L00008                                                                                                                          | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                                                               |                                                                                                                                                           |                                     |
| <b>Color Token:</b> Black                                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                           |                                     |
| <b>Element Name:</b> Black_0.35mmFilledDot                                                                                            | <b>Element Reference:</b> P00239                                                                                                                          | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.35mm diameter filled circle                                                                               |                                                                                                                                                           |                                     |
| <b>Color Token:</b> Black                                                                                                             | <b>Parameters:</b><br><b>Diameter:</b> 0.35mm                                                                                                             |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                                                                                                                                                       |
|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003424  | Cable / non-obstruction / other (curve) | (CAB = 3 [Telephone] or CAB = 4 [Telegraph] or CAB = 7 [Digital Communication Line] or CAB = 8 [Communication Line] or CAB = 9 [Fibre-optic] or CAB = 11 [Load Bearing] or CAB = 12 [Guide] or CAB = 13 [Barrier] or CAB = 14 [Restraining] or CAB = 15 [Towing] or CAB = 19 [Cableway] or CAB = 999 [Other] or CAB = -999999 [No Information]) and (HGT < 46) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                                                                                              |                                     |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Blue072_Cable_Powerline                                                                                                                                                                                                                                       |                                     |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                             |                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Pylon element is perpendicular to line however, may need to be rotated to ensure the bottom is facing the south neatline.                                                              |                                     |
| <b>Element Name:</b> Blue072_Powerline (Normal)                                                              | <b>Element Reference:</b> L00070                                                                                                                                                                                                                                                             | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Blue072 0.4mm Solid Line with Pylons                                                     |                                                                                                                                                                                                                                                                                              |                                     |
| <b>Color Token:</b> Blue072                                                                                  | <b>Parameters:</b><br><b>Line Style:</b> Blue072_0.4mmSolidLine<br><b>Repeating Point:</b> Blue072_Pylon<br><b>Repeating Point Interval:</b> 20mm<br><b>Note:</b> The repeating point is also positioned at points of directional change. The symbol should remain up most. Interval is 20mm |                                     |
| <b>Element Name:</b> Blue072_0.4mmSolidLine                                                                  | <b>Element Reference:</b> L00005                                                                                                                                                                                                                                                             | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Blue072 0.4mm Solid Line (0.4mm wt)                                                      |                                                                                                                                                                                                                                                                                              |                                     |
| <b>Color Token:</b> Blue072                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.4mm                                                                                                                                                                                                                                               |                                     |
| <b>Element Name:</b> Blue072_Pylon                                                                           | <b>Element Reference:</b> P00020                                                                                                                                                                                                                                                             | <b>Element Type:</b> Point - Shape  |
| <b>Description:</b> Blue072 pylon                                                                            |                                                                                                                                                                                                                                                                                              |                                     |
| <b>Color Token:</b> Blue072                                                                                  | <b>Parameters:</b><br><b>Orientation:</b> Centered at 90 degrees to the line<br><b>Note:</b> See Element: Blue072_Pylon in Annex H for detailed drawing instructions.                                                                                                                        |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                                             |
|----------|---------------------------|----------------------------------------------------------------------|
| R003425  | Cable / powerline (curve) | (CAB = 2 [Power Line] or CAB = 6 [Transmission Line]) and (HGT < 46) |

**Cable (AT005) (continued)**

Curve

Symbol Sample



Symbol Information

|                                                                                   |                                                                                                       |                                  |                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Blue072_Cable_Obstruction                                              |                                  |                                    |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                    |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                    |
| <b>Element Name:</b> Blue072_0.73mmSolidLine                                      |                                                                                                       | <b>Element Reference:</b> L00006 | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Blue072 0.73mm Solid Line (0.73mm wt)                         |                                                                                                       |                                  |                                    |
| <b>Color Token:</b> Blue072                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.73mm                                                       |                                  |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                            | Criteria                     |
|----------|----------------------------------------|------------------------------|
| R003426  | Cable / obstruction / standard (curve) | (HGT >= 46) and (LZN >= 625) |

Label Information

|                                      |                                                                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Cable / obstruction (curve)                                                                                                                                 |
| <b>Additional Labeling Criteria:</b> | ZVH and HGT values are converted from meters to feet.                                                                                                       |
| <b>Label String:</b>                 | "Cable"<br>[ZVH]<br>"([HGT])"                                                                                                                               |
| <b>Characteristics:</b>              | 15,46,95,95,95<br>15 (Blue072, Condensed, 6 pt, Mixed case)<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |

Symbol Sample

Cable  
726  
(216)



Point

Symbol Information

|                                                                                     |                                                                                                                           |                                  |                                    |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Blue072_LinearObstruction                                                                  |                                  |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> Point symbol is placed at the center of the curve geometry. Origin: Center of dot   |                                  |                                    |
| <b>Element Name:</b> Blue072_PT_LinearObstruction                                   |                                                                                                                           | <b>Element Reference:</b> P00113 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Blue072 linear vertical obstruction                             |                                                                                                                           |                                  |                                    |
| <b>Color Token:</b> Blue072                                                         | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_PT_LinearObstruction in Annex H for detailed drawing instructions |                                  |                                    |

Symbol Portrayal Rules

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Cable (AT005) (continued)**

Point

R003641 Cable / obstruction / small (curve) (HGT >= 46) and (LZN < 625)

**Label Information**

**Label Description:** Cable / obstruction (curve)  
**Additional Labeling Criteria:** ZVH and HGT values are converted from meters to feet.  
**Label String:** "Cable"  
 [ZVH]  
 "["[HGT]""]  
**Characteristics:** 15,46,95,95,95  
 15 (Blue072, Condensed, 6 pt, Mixed case)  
 46 (Blue072, Condensed, Bold, 6 pt, Lower case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Cableway (AT041)**

Curve

**Symbol Information**

|                                                                               |                                                                                                       |                                  |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                               | <b>Symbol Graphic Name:</b> LN_Black_Cableway                                                         |                                  |
|                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Black_0.2mm-2mmLenDash-0.5mmGapLine                      |                                                                                                       | <b>Element Reference:</b> L00032 |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b>                                                                                    |                                  |
|                                                                               | <b>Lineweight:</b> 0.2mm                                                                              | <b>Dash Length:</b> 2.0mm        |
|                                                                               |                                                                                                       | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria   |
|----------|------------------------------------|------------|
| R003155  | Cableway / non-obstruction (curve) | (HGT < 46) |

**Label Information**

**Label Description:** Cableway / recreational (curve)  
**Additional Labeling Criteria:** (CAT = 2 [Chair-lift] or CAT = 3 [Ski Tow] or CAT = 5 [Aerial Tramway] or CAT = 6 [Gondola Lift] or CAT = 7 [T-bar Lift] or CAT = 8 [Industrial Ropeway] or CAT = 9 [Material Tramway])  
**Label String:** [CAT]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Cableway / other (curve)  
**Additional Labeling Criteria:** (CAT = 999 [Other] or CAT = -999999 [No Information])  
**Label String:** "Cableway"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Cableway (AT041) (continued)**

Curve

Symbol Sample

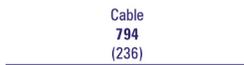


| Symbol Information                                                                |                                                                                                |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: LN_Blue072_Cableway_Obstruction                                           |                             |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                             |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                             |
| Element Name: Blue072_0.73mmSolidLine                                             | Element Reference: L00006                                                                      | Element Type: Line - Simple |
| Description: Blue072 0.73mm Solid Line (0.73mm wt)                                |                                                                                                |                             |
| Color Token: Blue072                                                              | Parameters:<br>Lineweight: 0.73mm                                                              |                             |

| Symbol Portrayal Rules |                                           |                              |
|------------------------|-------------------------------------------|------------------------------|
| Rule Ref               | Description                               | Criteria                     |
| R003158                | Cableway / obstruction / standard (curve) | (HGT >= 46) and (LZN >= 625) |

| Label Information             |                                                                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Label Description:            | Cableway / obstruction (curve)                                                                                                                              |
| Additional Labeling Criteria: | ZVH and HGT values are converted from meters to feet.                                                                                                       |
| Label String:                 | "Cable"<br>[ZVH]<br>"("[HGT]")"                                                                                                                             |
| Characteristics:              | 15,46,95,95,95<br>15 (Blue072, Condensed, 6 pt, Mixed case)<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |

Symbol Sample



Point

| Symbol Information                                                                  |                                                                                                                  |                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: PT_Blue072_LinearObstruction                                                                |                             |
|                                                                                     | Apply Label to Symbol: Yes                                                                                       |                             |
|                                                                                     | Symbol Placement Instructions: Point symbol is placed at the center of the curve geometry. Origin: Center of dot |                             |
| Element Name: Blue072_PT_LinearObstruction                                          | Element Reference: P00113                                                                                        | Element Type: Point - Shape |
| Description: Blue072 linear vertical obstruction                                    |                                                                                                                  |                             |
| Color Token: Blue072                                                                | Parameters:<br>Note: See Element: Blue072_PT_LinearObstruction in Annex H for detailed drawing instructions      |                             |

| Symbol Portrayal Rules |                                        |                             |
|------------------------|----------------------------------------|-----------------------------|
| Rule Ref               | Description                            | Criteria                    |
| R003642                | Cableway / obstruction / small (curve) | (HGT >= 46) and (LZN < 625) |

**Cableway (AT041) (continued)**

Point

**Label Information**

**Label Description:** Cableway / obstruction (curve)  
**Additional Labeling Criteria:** ZVH and HGT values are converted from meters to feet.  
**Label String:** "Cable"  
 [ZVH]  
 ("[HGT]")  
**Characteristics:** 15,46,95,95,95  
 15 (Blue072, Condensed, 6 pt, Mixed case)  
 46 (Blue072, Condensed, Bold, 6 pt, Lower case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Canal (BH020)**

Curve

**Symbol Information**

|                                                      |                                                                                                       |                                  |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                      | <b>Symbol Graphic Name:</b> LN_Cyan_Canal_Perennial                                                   |                                  |
|                                                      | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.4mmSolidLine             |                                                                                                       | <b>Element Reference:</b> L00017 |
| <b>Description:</b> Cyan 0.4mm Solid Line (0.4mm wt) |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.4mm                                                        |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                                                                                                     |
|----------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|
| R003026  | Canal / perennial (curve) | (Z1024_HYP = 1 [Perennial] or Z1024_HYP = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) |

**Label Information**

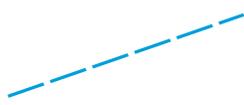
**Label Description:** Canal / all (curve)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Canal"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**

*Canal*

**Canal (BH020) (continued)**

Curve

| Symbol Information                                                                |                                                                                                       |                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Canal_IntermittentDry                                             |                                    |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                    |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Cyan_0.4mm-2mmLenDash-0.5mmGapLine                           | <b>Element Reference:</b> L00045                                                                      | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Cyan 0.4mm Dashed Line (0.4mm wt, 2.0mm dash, 0.5mm gap)      |                                                                                                       |                                    |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b>                                                                                    |                                    |
|                                                                                   | <b>Lineweight:</b> 0.4mm                                                                              | <b>Dash Length:</b> 2.0mm          |
|                                                                                   |                                                                                                       | <b>Dash Spacing:</b> 0.5mm         |

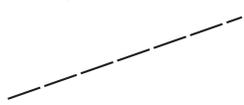
| Symbol Portrayal Rules |                                                |                                                                                                                                                                                 |
|------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                                    | Criteria                                                                                                                                                                        |
| R003027                | Canal / intermittent, dry / not usable (curve) | (Z1024_HYP = 2 [Intermittent] or Z1024_HYP = 4 [Dry]) or (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |

| Label Information                    |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Canal / construction (curve)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | "Canal (construction)"                                                                       |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                         |
| <b>Label Description:</b>            | Canal / not usable (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "Canal (not usable)"                                                                         |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                         |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

**Cart\_Track (AP010)**

Curve

| Symbol Information                                                                  |                                                                                                       |                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_CartTrack                                                        |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> No                                                                      |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Black_0.25mm-3mmLenDash-0.5mmGapLine                           | <b>Element Reference:</b> L00035                                                                      | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 3.0mm dash, 0.5mm gap)     |                                                                                                       |                                    |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b>                                                                                    |                                    |
|                                                                                     | <b>Lineweight:</b> 0.25mm                                                                             | <b>Dash Length:</b> 3.0mm          |
|                                                                                     |                                                                                                       | <b>Dash Spacing:</b> 0.5mm         |

| Symbol Portrayal Rules |                          |          |
|------------------------|--------------------------|----------|
| Rule Ref               | Description              | Criteria |
| R003128                | Cart Track / all (curve) | ALL      |

**Cart\_Track (AP010) (continued)**

Curve

Symbol Sample

-----

**Castle (AL375)**

Surface

| Symbol Information                                                                                         |                                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Castle                                                                                              |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                   |                                                                                                                                          | <b>Element Reference:</b> A00006 |
| <b>Description:</b> Black Solid Fill                                                                       |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                                                       |                                  |
|                                                                                                            | <b>Note:</b> Solid Fill                                                                                                                  |                                  |

| Symbol Portrayal Rules |                               |              |
|------------------------|-------------------------------|--------------|
| Rule Ref               | Description                   | Criteria     |
| R003434                | Castle / large area (surface) | (LZN >= 375) |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Castle / all (surface)                      |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Castle"                                    |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

Symbol Sample

■ Castle

| Symbol Information                                                                                                                                 |                                                                                       |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                       | <b>Symbol Graphic Name:</b> PT_Black_Castle                                           |                                  |
|                                                                                                                                                    | <b>Apply Label to Symbol:</b> No                                                      |                                  |
|                                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of symbol                        |                                  |
| <b>Element Name:</b> Black_Castle                                                                                                                  |                                                                                       | <b>Element Reference:</b> P00130 |
| <b>Description:</b> Black 1.1mm open square with a 0.15mm lineweight and a 0.55mm filled square on each corner. Overall height and width is 1.5mm. |                                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b>                                                                    |                                  |
|                                                                                                                                                    | <b>Length:</b> 1.5mm                                                                  | <b>Lineweight:</b> 0.15mm        |
|                                                                                                                                                    | <b>Note:</b> Four 0.55mm filled squares, one on each corner of the larger open square |                                  |

| Symbol Portrayal Rules |                               |                                          |
|------------------------|-------------------------------|------------------------------------------|
| Rule Ref               | Description                   | Criteria                                 |
| R003670                | Castle / small area (surface) | (LZN > 124 and LZN < 375) and (HGT < 46) |

**Castle (AL375) (continued)**

Surface

Symbol Sample

⌘

Point

| Symbol Information                                                                                                                                 |                                                                                                                                                               |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                         | <b>Symbol Graphic Name:</b> PT_Black_Castle                                                                                                                   |                                  |
|                                                                                                                                                    | <b>Apply Label to Symbol:</b> No                                                                                                                              |                                  |
|                                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of symbol                                                                                                |                                  |
| <b>Element Name:</b> Black_Castle                                                                                                                  |                                                                                                                                                               | <b>Element Reference:</b> P00130 |
| <b>Element Type:</b> Point - Simple                                                                                                                |                                                                                                                                                               |                                  |
| <b>Description:</b> Black 1.1mm open square with a 0.15mm lineweight and a 0.55mm filled square on each corner. Overall height and width is 1.5mm. |                                                                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b><br><b>Length:</b> 1.5mm <b>Lineweight:</b> 0.15mm<br><b>Note:</b> Four 0.55mm filled squares, one on each corner of the larger open square |                                  |

Symbol Portrayal Rules

| Rule Ref | Description          | Criteria   |
|----------|----------------------|------------|
| R003435  | Castle / all (point) | (HGT < 46) |

Symbol Sample

⌘

**Castle Complex (AL376)**

Surface

| Symbol Information                                                                                           |                                                                                                                 |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_CastleComplex                                                              |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.2mmSolidLine                                                                    |                                                                                                                 | <b>Element Reference:</b> L00009 |
| <b>Element Type:</b> Line - Simple                                                                           |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.2mm Solid Line (0.2mm wt)                                                        |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                  |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003485  | Castle Complex / all (surface) | ALL      |

Label Information

**Label Description:** Castle Complex / named (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information")  
**Label String:** [ZI005\_FNA]

**Castle\_Complex (AL376) (continued)**

Surface

|                                                                   |                                                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                          |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Castle Complex / unnamed (surface)<br>(ZI005_FNA = "No Information") |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Castle"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)              |

**Symbol Sample**

Castle
  Vilnius Castle

Point

| Symbol Information                                                                                                                                                                                                                                           |                                                                                                                                                               |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br>                                                                                                                                               | <b>Symbol Graphic Name:</b> PT_Black_CastleComplex<br><b>Apply Label to Symbol:</b> Yes<br><b>Symbol Placement Instructions:</b> Origin: Center of symbol     |  |
| <b>Element Name:</b> Black_Castle <b>Element Reference:</b> P00130 <b>Element Type:</b> Point - Simple<br><b>Description:</b> Black 1.1mm open square with a 0.15mm lineweight and a 0.55mm filled square on each corner. Overall height and width is 1.5mm. |                                                                                                                                                               |  |
| <b>Color Token:</b> Black                                                                                                                                                                                                                                    | <b>Parameters:</b><br><b>Length:</b> 1.5mm <b>Lineweight:</b> 0.15mm<br><b>Note:</b> Four 0.55mm filled squares, one on each corner of the larger open square |  |

Symbol Portrayal Rules

| Rule Ref | Description                  | Criteria |
|----------|------------------------------|----------|
| R003486  | Castle Complex / all (point) | ALL      |

Label Information

|                                                                   |                                                            |
|-------------------------------------------------------------------|------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Castle Complex / named (point)<br>N/A                      |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA]<br>1<br>1 (Black, Condensed, 6 pt, Mixed case) |

Symbol Sample

⚡
⚡ Leicester Castle

**Causeway\_Structure (AQ063)**

Curve

| Symbol Information                                       |                                                                                                                                                                                                                                          |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br><i>[ZI005_FNA] CAUSEWAY</i> | <b>Symbol Graphic Name:</b> LN_Causeway<br><b>Apply Label to Symbol:</b> Yes<br><b>Symbol Placement Instructions:</b> Dynamic text label only. No Graphic Parameters. The label is aligned with the feature listed in the TRS attribute. |



**Cave\_Mouth (DB029) (continued)**

Point

Symbol Sample

4

**Cemetery (AL030)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                              |                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Cemetery                                                                                                                |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                             |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 | <b>Element Reference:</b> L00210                                                                                                                             | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                     |                                    |
| <b>Element Name:</b> Black_Cemetery_Unknown                                                                | <b>Element Reference:</b> P00126                                                                                                                             | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black cemetery unknown                                                                 |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cemetery_Unknown in Annex H for detailed drawing instructions                                          |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                           | Criteria                                                                                      |
|----------|---------------------------------------|-----------------------------------------------------------------------------------------------|
| R003078  | Cemetery / unknown or other (surface) | (Z1037_REL = 9 [Hinduism] or Z1037_REL = 999 [Other] or Z1037_REL = -999999 [No Information]) |

Symbol Sample

5

| Symbol Information                                                                                            |                                                                                                                                                              |                                    |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br>  | <b>Symbol Graphic Name:</b> AR_Black_Cemetery_Buddhism                                                                                                       |                                    |
|                                                                                                               | <b>Apply Label to Symbol:</b> No                                                                                                                             |                                    |
|                                                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                    | <b>Element Reference:</b> L00210                                                                                                                             | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                 |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                     | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                     |                                    |
| <b>Element Name:</b> Black_Cemetery_Buddhism                                                                  | <b>Element Reference:</b> P00023                                                                                                                             | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black squared "U" shape with a 0.2mm lineweight and overall width 1.10mm and height 0.6mm |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                     | <b>Parameters:</b>                                                                                                                                           |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                   | Criteria                   |
|----------|-------------------------------|----------------------------|
| R003075  | Cemetery / buddhism (surface) | (Z1037_REL = 1 [Buddhism]) |

**Cemetery (AL030) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                                              |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Cemetery_Christian                                                                                                      |                                  |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                                                             |                                  |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                                                              | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                                                              |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                     |                                  |                                    |
| <b>Element Name:</b> Black_Cross                                                                               |                                                                                                                                                              | <b>Element Reference:</b> P00013 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black cross                                                                                |                                                                                                                                                              |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Note: See Element: Black_Cross in Annex H for detailed drawing instructions.                                                           |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                                                                                                                                                                           |
|----------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003076  | Cemetery / christian (surface) | (ZI037_REL = 3 [Roman Catholic] or ZI037_REL = 4 [Christian] or ZI037_REL = 6 [Orthodox] or ZI037_REL = 7 [Protestant] or ZI037_REL = 12 [Nestorian] or ZI037_REL = 13 [Chaldean]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                                                              |                                  |                                    |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Cemetery_Islam                                                                                                          |                                  |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                             |                                  |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                                                              | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                                                              |                                  |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                     |                                  |                                    |
| <b>Element Name:</b> Black_Crescent                                                                              |                                                                                                                                                              | <b>Element Reference:</b> P00014 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black crescent                                                                               |                                                                                                                                                              |                                  |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br>Note: See Element: Black_Crescent in Annex H for detailed drawing instructions.                                                        |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria                                                                   |
|----------|----------------------------|----------------------------------------------------------------------------|
| R003074  | Cemetery / islam (surface) | (ZI037_REL = 2 [Islam] or ZI037_REL = 10 [Shia] or ZI037_REL = 11 [Sunni]) |

**Cemetery (AL030) (continued)**

Surface

Symbol Sample



| Symbol Information                                                            |                                                                                                                                                                 |                                    |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br>                                                     | <b>Symbol Graphic Name:</b> AR_Black_Cemetery_Judaism                                                                                                           |                                    |
|                                                                               | <b>Apply Label to Symbol:</b> No                                                                                                                                |                                    |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area.    |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00210                                                                                                                                | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap) |                                                                                                                                                                 |                                    |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                        |                                    |
| <b>Element Name:</b> Black_Judaism                                            | <b>Element Reference:</b> P00017                                                                                                                                | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black 0.2mm lineweight "T" with a 1.1mm overall height    |                                                                                                                                                                 |                                    |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Note:</b> Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                  | Criteria                  |
|----------|------------------------------|---------------------------|
| R003077  | Cemetery / judaism (surface) | (Zl037_REL = 5 [Judaism]) |

Symbol Sample



| Symbol Information                                                            |                                                                                                                                                              |                                    |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br>                                                     | <b>Symbol Graphic Name:</b> AR_Black_Cemetery_Shinto                                                                                                         |                                    |
|                                                                               | <b>Apply Label to Symbol:</b> No                                                                                                                             |                                    |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00210                                                                                                                             | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap) |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                                                                     |                                    |
| <b>Element Name:</b> Black_Cemetery_Shinto                                    | <b>Element Reference:</b> P00180                                                                                                                             | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black shinto cemetery                                     |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cemetery_Shinto in Annex H for detailed drawing instructions                                           |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                 | Criteria                 |
|----------|-----------------------------|--------------------------|
| R003488  | Cemetery / shinto (surface) | (Zl037_REL = 8 [Shinto]) |

**Cemetery (AL030) (continued)**

Surface

Symbol Sample



Point

| Symbol Information                                                                                             |                                                                                                                     |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Unknown                                                               |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                    |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of symbol                                                      |                                  |
| <b>Element Name:</b> Black_Cemetery_Unknown                                                                    |                                                                                                                     | <b>Element Reference:</b> P00126 |
| <b>Description:</b> Black cemetery unknown                                                                     |                                                                                                                     |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cemetery_Unknown in Annex H for detailed drawing instructions |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                         | Criteria                                                                                      |
|----------|-------------------------------------|-----------------------------------------------------------------------------------------------|
| R003083  | Cemetery / unknown or other (point) | (Z1037_REL = 9 [Hinduism] or Z1037_REL = 999 [Other] or Z1037_REL = -999999 [No Information]) |

Symbol Sample



| Symbol Information                                                                                               |                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Buddhism               |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of symbol       |                                  |
| <b>Element Name:</b> Black_Cemetery_Buddhism                                                                     |                                                                      | <b>Element Reference:</b> P00023 |
| <b>Description:</b> Black squared "U" shape with a 0.2mm lineweight and overall width 1.10mm and height 0.6mm    |                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Length:</b> 1.10mm <b>Lineweight:</b> 0.2mm |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                 | Criteria                   |
|----------|-----------------------------|----------------------------|
| R003080  | Cemetery / buddhism (point) | (Z1037_REL = 1 [Buddhism]) |

Symbol Sample



## Cemetery (AL030) (continued)

Point

| Symbol Information                                                                                         |                                                                |                                  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Christian        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of symbol |                                  |
| <b>Element Name:</b> Black_Cross                                                                           |                                                                | <b>Element Reference:</b> P00013 |
| <b>Description:</b> Black cross                                                                            |                                                                |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                             |                                  |
| <b>Note:</b> See Element: Black_Cross in Annex H for detailed drawing instructions.                        |                                                                |                                  |

| Symbol Portrayal Rules |                              |                                                                                                                                                                                    |
|------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                  | Criteria                                                                                                                                                                           |
| R003079                | Cemetery / christian (point) | (ZI037_REL = 3 [Roman Catholic] or ZI037_REL = 4 [Christian] or ZI037_REL = 6 [Orthodox] or ZI037_REL = 7 [Protestant] or ZI037_REL = 12 [Nestorian] or ZI037_REL = 13 [Chaldean]) |

| Symbol Sample |  |  |
|---------------|--|--|
| †             |  |  |

| Symbol Information                                                                                           |                                                                |                                  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Islam            |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                               |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of symbol |                                  |
| <b>Element Name:</b> Black_Crescent                                                                          |                                                                | <b>Element Reference:</b> P00014 |
| <b>Description:</b> Black crescent                                                                           |                                                                |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                             |                                  |
| <b>Note:</b> See Element: Black_Crescent in Annex H for detailed drawing instructions.                       |                                                                |                                  |

| Symbol Portrayal Rules |                          |                                                                            |
|------------------------|--------------------------|----------------------------------------------------------------------------|
| Rule Ref               | Description              | Criteria                                                                   |
| R003081                | Cemetery / islam (point) | (ZI037_REL = 2 [Islam] or ZI037_REL = 10 [Shia] or ZI037_REL = 11 [Sunni]) |

| Symbol Sample |  |  |
|---------------|--|--|
| ☾             |  |  |

| Symbol Information                                                                                           |                                                                |  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Judaism          |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                               |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of symbol |  |

**Cemetery (AL030) (continued)**

Point

|                                                                            |                                                                                                                                                                                             |                                    |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Judaism                                         | <b>Element Reference:</b> P00017                                                                                                                                                            | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black 0.2mm lineweight "T" with a 1.1mm overall height |                                                                                                                                                                                             |                                    |
| <b>Color Token:</b> Black                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm<br><b>Note:</b> Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm |                                    |

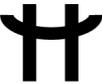
**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria                  |
|----------|----------------------------|---------------------------|
| R003082  | Cemetery / judaism (point) | (ZI037_REL = 5 [Judaism]) |

**Symbol Sample**

T

**Symbol Information**

|                                                                                                                |                                                                |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Cemetery_Shinto           |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                               |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of symbol |

|                                            |                                                                                                                    |                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Cemetery_Shinto | <b>Element Reference:</b> P00180                                                                                   | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black shinto cemetery  |                                                                                                                    |                                    |
| <b>Color Token:</b> Black                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Cemetery_Shinto in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                 |
|----------|---------------------------|--------------------------|
| R003489  | Cemetery / shinto (point) | (ZI037_REL = 8 [Shinto]) |

**Symbol Sample**

††

**Checkpoint (AH070)**

Point

**Symbol Information**

|                                                                                                                  |                                                                 |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Checkpoint                 |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of circle. |

|                                       |                                                                                                                |                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Checkpoint | <b>Element Reference:</b> P00132                                                                               | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black checkpoint  |                                                                                                                |                                    |
| <b>Color Token:</b> Black             | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Checkpoint in Annex H for detailed drawing instructions. |                                    |

**Checkpoint (AH070) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                      |
|----------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| R003033  | Checkpoint / customs / landmark (point) | (FFN = 537 [Customs Checkpoint] or FFN = 538 [Inspection Station] or FFN = 842 [Immigration Control]) and (LMC = 1001 [True]) |

**Symbol Sample**



**Cistern (BI010)**

Point

**Symbol Information**

|                                                                                                            |                                                                             |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Cyan_Cistern                                 |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                            |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Cyan_0.8mmFilledSquare                                                                |                                                                             | <b>Element Reference:</b> P00007 |
| <b>Description:</b> Cyan filled square with all sides 0.8mm                                                |                                                                             |                                  |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria            |
|----------|----------------------------|---------------------|
| R003052  | Cistern / landmark (point) | (LMC = 1001 [True]) |

**Symbol Sample**



**Conservation\_Area (FA210)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                                                 |  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_ConservationArea                                                           |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |  |

**Conservation\_Area (FA210) (continued)**

Surface

|                                                                                                                           |                                                                                                                                                                                              |                                  |                                                         |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Black_AdminBoundary                                                                                  |                                                                                                                                                                                              | <b>Element Reference:</b> L00129 | <b>Element Type:</b> Line - Complex                     |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 6.1mm dash, 2.5mm gap) with 0.25mm filled dot centered in dash gap |                                                                                                                                                                                              |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> Black_0.2mm-6.1mmLenDash-2.5mmGapLine<br><b>Repeating Point:</b> Black_0.25mmFilledDot<br><b>Repeating Point Interval:</b> Dot centered in dash gap |                                  |                                                         |
| <b>Element Name:</b> Black_0.2mm-6.1mmLenDash-2.5mmGapLine                                                                |                                                                                                                                                                                              | <b>Element Reference:</b> L00128 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 6.1mm dash, 2.5mm gap)                                             |                                                                                                                                                                                              |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                               |                                  | <b>Dash Length:</b> 6.1mm<br><b>Dash Spacing:</b> 2.5mm |
| <b>Element Name:</b> Black_0.25mmFilledDot                                                                                |                                                                                                                                                                                              | <b>Element Reference:</b> P00047 | <b>Element Type:</b> Point - Simple                     |
| <b>Description:</b> Black 0.25mm diameter filled circle                                                                   |                                                                                                                                                                                              |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Diameter:</b> 0.25mm                                                                                                                                                |                                  |                                                         |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria |
|----------|-----------------------------------|----------|
| R003490  | Conservation Area / all (surface) | ALL      |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Conservation Area / known (surface)                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (CAM = 1 [Strict Nature Reserve] or CAM = 2 [Wilderness Area] or CAM = 3 [National Park] or CAM = 4 [Natural Monument] or CAM = 5 [Habitat and/or Species Management Area] or CAM = 6 [Habitat Management Area] or CAM = 7 [Species Management Area] or CAM = 8 [Breeding Ground] or CAM = 9 [Protected Landscape or Seascape] or CAM = 10 [Managed Resource Protected Area] or CAM = 11 [Managed Forest Protected Area]) |
| <b>Label String:</b>                 | [ZI005_FNA] [CAM]                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Characteristics:</b>              | 3,3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Label Description:</b>            | Conservation Area / unknown (surface)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additional Labeling Criteria:</b> | (CAM = 999 [Other] or CAM = -999999 [No Information])                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Label String:</b>                 | [ZI005_FNA] "Conservation area"                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristics:</b>              | 3,3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                          |

**Symbol Sample**



**Control\_Point (ZB035)**

Point

| Symbol Information        |                                                              |
|---------------------------|--------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_ControlPoint_Horizontal |
|                           | <b>Apply Label to Symbol:</b> Yes                            |
|                           | <b>Symbol Placement Instructions:</b> Origin: Center of dot  |

**Control\_Point (ZB035) (continued)**

Point

|                                                                                                                              |                                                                                                                                                                                                                         |                                      |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Black_ControlPoint_Horizontal                                                                           | <b>Element Reference:</b> P00179                                                                                                                                                                                        | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Black 1.5mm equilateral triangle with a 0.1mm lineweight and a 0.3mm diameter filled dot centered inside |                                                                                                                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                                    | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_0.1mm_1.5mmEquilateralTriangle<br><b>Point 2 Name:</b> Black_0.3mmFilledDot<br><b>Note:</b> The 0.3mm diameter filled dot is centered within the equilateral triangle. |                                      |
| <b>Element Name:</b> Black_0.1mm_1.5mmEquilateralTriangle                                                                    | <b>Element Reference:</b> P00177                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black 1.5mm equilateral triangle with a 0.1mm lineweight                                                 |                                                                                                                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm<br><b>Length:</b> 1.5mm<br><b>Note:</b> A black open equilateral triangle all sides are 1.5mm with a 0.1mm lineweight                                                    |                                      |
| <b>Element Name:</b> Black_0.3mmFilledDot                                                                                    | <b>Element Reference:</b> P00178                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black 0.3mm diameter filled circle                                                                       |                                                                                                                                                                                                                         |                                      |
| <b>Color Token:</b> Black                                                                                                    | <b>Parameters:</b><br><b>Diameter:</b> 0.3mm<br><b>Note:</b> Circle is filled                                                                                                                                           |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria                                                                       |
|----------|------------------------------------|--------------------------------------------------------------------------------|
| R003491  | Control Point / horizontal (point) | (CPA = 2 [Horizontal Position] or CPA = 3 [Horizontal Position and Benchmark]) |

**Label Information**

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Control Point / horizontal, benchmark (point)                                                   |
| <b>Additional Labeling Criteria:</b> | (CPA = 3 [Horizontal Position and Benchmark])<br>BEL value is converted from meters to feet.    |
| <b>Label String:</b>                 | "BM" "["[BEL]""]                                                                                |
| <b>Characteristics:</b>              | 21,25,25,25<br>21 (Black, Condensed, 8 pt, Upper case)<br>25 (Black, Regular, 8 pt, Lower case) |

**Symbol Sample**



△ BM (8469)

**Symbol Information**

|                                                                                                                                                                                         |                                                                                                                   |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                      | <b>Symbol Graphic Name:</b> PT_Black_ControlPoint_Vertical                                                        |                                     |
|                                                                                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                 |                                     |
|                                                                                                                                                                                         | <b>Symbol Placement Instructions:</b> Origin: Center of intersection                                              |                                     |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenX                                                                                                                                              | <b>Element Reference:</b> P00205                                                                                  | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Two Black lines (each length 1.0mm with a 0.1mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments. |                                                                                                                   |                                     |
| <b>Color Token:</b> Black                                                                                                                                                               | <b>Parameters:</b><br><b>Length:</b> 1.0mm <b>Lineweight:</b> 0.1mm<br><b>Orientation:</b> Center of intersection |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria                      |
|----------|----------------------------------|-------------------------------|
| R003492  | Control Point / vertical (point) | (CPA = 5 [Vertical Position]) |

**Control\_Point (ZB035) (continued)**

Point

**Label Information**

**Label Description:** Control Point / vertical (point)  
**Additional Labeling Criteria:** BEL value is converted from meters to feet.  
**Label String:** "BM" "["[BEL]"")  
**Characteristics:** 21,25,25,25  
 21 (Black, Condensed, 8 pt, Upper case)  
 25 (Black, Regular, 8 pt, Lower case)

**Symbol Sample**

\* BM (2645)

**Control\_Tower (AQ060)**

Point

**Symbol Information**

|                                                                                                                                    |                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | <b>Symbol Graphic Name:</b> PT_Black_ControlTower                                                                                              |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                              |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                                                    |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                                                                                                |
| <b>Element Reference:</b> P00010                                                                                                   |                                                                                                                                                |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                                                                                                |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                                                                                                                                                                                             |
|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003133  | Control Tower / non-obstruction (point) | (FFN = 486 [Signalling] or FFN = 490 [Railway Transport] or FFN = 505 [Water Transport] or FFN = 507 [Inland Waters Transport] or FFN = 508 [Canal Transport] or FFN = 510 [Port Control] or FFN = 511 [Maritime Pilotage] or FFN = 513 [Harbour Control] or FFN = 847 [Emergency Operations] or FFN = 999 [Other] or FFN = -999999 [No Information]) and (HGT < 46) |

**Label Information**

**Label Description:** Control Tower / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Control tower"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

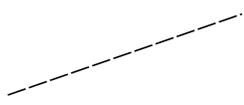
⊙ Control tower

**Conveyor (AF020)**

Curve

**Conveyor (AF020) (continued)**

Curve

| Symbol Information                                                                |                                                                                                |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: LN_Black_Conveyor                                                         |                             |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                             |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                             |
| Element Name: Black_0.2mm-2mmLenDash-0.5mmGapLine                                 | Element Reference: L00032                                                                      | Element Type: Line - Styled |
| Description: Black 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)            |                                                                                                |                             |
| Color Token: Black                                                                | Parameters:<br>Lineweight: 0.2mm      Dash Length: 2.0mm      Dash Spacing: 0.5mm              |                             |

| Symbol Portrayal Rules |                        |          |
|------------------------|------------------------|----------|
| Rule Ref               | Description            | Criteria |
| R003034                | Conveyor / all (curve) | ALL      |

| Label Information             |                                             |
|-------------------------------|---------------------------------------------|
| Label Description:            | Conveyor / all (curve)                      |
| Additional Labeling Criteria: | N/A                                         |
| Label String:                 | "Conveyor"                                  |
| Characteristics:              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |  |
|-------------------------------------------------------------------------------------|--|
|  |  |

**Cooling\_Facility (AD055)**

Surface

| Symbol Information                                                                  |                                                                                                          |                             |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: AR_Black_CoolingFacility                                                            |                             |
|                                                                                     | Apply Label to Symbol: Yes                                                                               |                             |
|                                                                                     | Symbol Placement Instructions: The linear symbology is applied to the perimeter of the surface geometry. |                             |
| Element Name: Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                 | Element Reference: L00210                                                                                | Element Type: Line - Styled |
| Description: Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)              |                                                                                                          |                             |
| Color Token: Black                                                                  | Parameters:<br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                        |                             |

| Symbol Portrayal Rules |                                  |          |
|------------------------|----------------------------------|----------|
| Rule Ref               | Description                      | Criteria |
| R003493                | Cooling Facility / all (surface) | ALL      |

| Label Information             |                                  |
|-------------------------------|----------------------------------|
| Label Description:            | Cooling Facility / all (surface) |
| Additional Labeling Criteria: | N/A                              |
| Label String:                 | "Cooling facility"               |

**Cooling\_Facility (AD055) (continued)**

Surface

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_CoolingFacility                        |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003494  | Cooling Facility / all (point) | ALL      |

**Label Information**

**Label Description:** Cooling Facility / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Cooling facility"  
**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Cooling\_Tower (AF030)**

Point

**Symbol Information**

|                                                                                                                                   |                                                                                                                                                |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                  | <b>Symbol Graphic Name:</b> PT_Black_CoolingTower                                                                                              |                                  |
|                                                                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                              |                                  |
|                                                                                                                                   | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                                                    |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                      |                                                                                                                                                | <b>Element Reference:</b> P00010 |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm linewidth and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                         | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

**Cooling\_Tower (AF030) (continued)**

Point

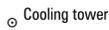
**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria   |
|----------|-----------------------------------------|------------|
| R003035  | Cooling Tower / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Cooling Tower / non-obstruction (point)     |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Cooling tower"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Crane (AF040)**

Point

**Symbol Information**

|                                                                                                                 |                                                                                                           |                                  |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Crane                                                                |                                  |
|                                                                                                                 | <b>Apply Label to Symbol:</b> No                                                                          |                                  |
|                                                                                                                 | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                       |                                  |
| <b>Element Name:</b> Black_Crane                                                                                |                                                                                                           | <b>Element Reference:</b> P00131 |
| <b>Description:</b> Black crane                                                                                 |                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                       | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Crane in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                                                                                      |
|----------|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| R003038  | Crane / on shore / non-obstruction (point) | (HGT < 46) and (SRL = 2 [Inland] or SRL = 3 [At Shoreline] or SRL = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                             |  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Crane_Offshore         |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                           |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of dot |  |

**Crane (AF040) (continued)**

Point

|                                                |                                                                                                                |                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Offshore_VO         | <b>Element Reference:</b> P00161                                                                               | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black vertical obstruction |                                                                                                                |                                    |
| <b>Color Token:</b> Black                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Offshore_VO in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                            |
|----------|--------------------------------------------|-------------------------------------|
| R003495  | Crane / offshore / non-obstruction (point) | (HGT < 46) and (SRL = 1 [Offshore]) |

**Label Information**

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Crane / non-obstruction (point)                                                                 |
| <b>Additional Labeling Criteria:</b> | HGT value is converted from meters to feet.                                                     |
| <b>Label String:</b>                 | "Crane"<br>"("[HGT]")"                                                                          |
| <b>Characteristics:</b>              | 1,22,22,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case) |

**Symbol Sample**



**Crevasse (BJ031)**

Curve

| Symbol Information |                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <b>Symbol Graphic Name:</b> LN_Cyan_Crevasse                                                                                                        |
|                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                   |
|                    | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the center of the surface geometry aligned with the length of the feature. |

|                                                        |                                                 |                                    |
|--------------------------------------------------------|-------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_0.25mmSolidLine              | <b>Element Reference:</b> L00248                | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.25mm Solid Line (0.25mm wt) |                                                 |                                    |
| <b>Color Token:</b> Cyan                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003497  | Crevasse / all (curve) | ALL      |

**Label Information**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Crevasse / all (curve)                               |
| <b>Additional Labeling Criteria:</b> | N/A                                                  |
| <b>Label String:</b>                 | "Crevasse"                                           |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Crevasse (BJ031) (continued)**

Curve

Symbol Sample

*Crevasse*



**Crevice (DB061)**

Curve

Symbol Information

|                                                                                                            |                                                                                                                                                     |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Crevice                                                                                                 |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                   |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the center of the surface geometry aligned with the length of the feature. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.25mmSolidLine                                                          |                                                                                                                                                     | <b>Element Reference:</b> L00024 |
| <b>Description:</b> Dk-Brown1815 0.25mm Solid Line (0.25mm wt)                                             |                                                                                                                                                     |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br>Lineweight: 0.25mm                                                                                                            |                                  |

Symbol Portrayal Rules

| Rule Ref | Description           | Criteria |
|----------|-----------------------|----------|
| R003499  | Crevice / all (curve) | ALL      |

Label Information

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <b>Label Description:</b>            | Crevice / all (curve)                               |
| <b>Additional Labeling Criteria:</b> | N/A                                                 |
| <b>Label String:</b>                 | "Crevice"                                           |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case) |

Symbol Sample

*Crevice*



**Cut\_Line (DB071)**

Curve

Symbol Information

|                                                                                                              |                                                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Cutline_GreaterThanContour                                                      |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                            |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |  |

**Cut\_Line (DB071) (continued)**

Curve

|                                                                                       |                                                                                                                                                                                                                                                                             |                                  |                                     |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_GreaterThanContour                                  |                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00066 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line with Ticks (0.15mm wt, 0.5mm long) |                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.15mmSolidLine<br><b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 1.5mm<br><b>Note:</b> Tick end is on and at 90 degrees to line, facing downhill. Tick Interval: 1.5mm |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mmSolidLine                                     |                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00240 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line (0.15mm wt)                        |                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                             |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick                                 |                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Dk-Brown1815 0.5mm length line with a 0.15mm lineweight           |                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                          |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                  | Criteria                |
|----------|--------------------------------------------------------------|-------------------------|
| R003244  | Cut Line / greater than or equal to contour interval (curve) | PFH >= contour interval |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Cutline_LessThanContour                                                         |
|                           | <b>Apply Label to Symbol:</b> No                                                                                            |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |

|                                                                                                                                                  |                                                                                                                                                                                                                                                                  |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_LessThanContour                                                                                                |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00261 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3mm dash, 0.5mm gap) with two Dk-Brown1815_0.15mm wt-0.5mmLenTicks on each dash. |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Two ticks are placed centered on the dash at 90 degrees spaced 1.5mm apart. |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine                                                                                 |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00242 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3.0mm dash, 0.5mm gap)                                                           |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b>                                                                                                                                                                                                                                               | <b>Dash Length:</b> 3.0mm        | <b>Dash Spacing:</b> 0.5mm          |
|                                                                                                                                                  | <b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick                                                                                            |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Dk-Brown1815 0.5mm length line with a 0.15mm lineweight                                                                      |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                               |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria               |
|----------|-----------------------------------------------|------------------------|
| R003245  | Cut Line / less than contour interval (curve) | PFH < contour interval |

**Cut\_Line (DB071) (continued)**

Curve

Symbol Sample

-----

**Dam (BI020)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Dam                                                                        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.4mmSolidLine                                                                  |                                                                                                                 | <b>Element Reference:</b> L00013 |
| <b>Element Type:</b> Line - Simple                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.4mm Solid Line (0.4mm wt)                                                      |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.4mm                                                                  |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                      | Criteria                                                                                                                                                                                                             |
|----------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003214  | Dam / not soil / large (surface) | (MCC = 9 [Brick] or MCC = 21 [Concrete] or MCC = 62 [Masonry] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) and (WID >= 500) |

Label Information

|                                      |                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Dam / usable / concrete, masonry (surface)                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA] "Dam"                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                   |
| <b>Label Description:</b>            | Dam / usable / other (surface)                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC] "dam"                                                                                                                                                                                         |
| <b>Characteristics:</b>              | 1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                     |
| <b>Label Description:</b>            | Dam / construction / concrete, masonry (surface)                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                        |
| <b>Label String:</b>                 | [ZI005_FNA] "Dam (construction)"                                                                                                                                                                                |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                   |
| <b>Label Description:</b>            | Dam / construction / other (surface)                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                             |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC] "dam (construction)"                                                                                                                                                                          |
| <b>Characteristics:</b>              | 1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                     |
| <b>Label Description:</b>            | Dam / not usable / concrete, masonry (surface)                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC =                                                                                                         |

**Dam (BI020) (continued)**

Surface

21 [Concrete] or MCC = 62 [Masonry])  
**Label String:** [ZI005\_FNA] "Dam (not usable)"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

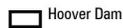
**Label Description:** Dam / not usable / other (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])

**Label String:** [ZI005\_FNA] [MCC] "dam (not usable)"  
**Characteristics:** 1,1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Symbol Sample**



Dam



Hoover Dam

**Symbol Information**

|                                                                                                            |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_Dam                                                                 |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.4mmSolidLine                                                           |                                                                                                                 | <b>Element Reference:</b> L00195 |
| <b>Description:</b> Dk-Brown1815 0.4mm Solid Line (0.4mm wt)                                               |                                                                                                                 |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br>Lineweight: 0.4mm                                                                         |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria                                                                                   |
|----------|------------------------------|--------------------------------------------------------------------------------------------|
| R003215  | Dam / soil / large (surface) | (MCC = 104 [Soil] or MCC = 999 [Other] or MCC = -999999 [No Information]) and (WID >= 500) |

**Label Information**

**Label Description:** Dam / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])  
**Label String:** [ZI005\_FNA] "Dam"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Dam / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])  
**Label String:** [ZI005\_FNA] "Dam (construction)"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Dam / not usable (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** [ZI005\_FNA] "Dam (not usable)"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Dam (BI020) (continued)**

Surface

**Symbol Sample**



Dam



Castaic Dam

**Symbol Information**

|                                                                                   |                                                                                                                                                                                                                                          |                                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_Dam_CarryingTransportation                                                                                                                                                                          |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                        |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the longest edges of the surface geometry aligned with transportation feature. A minimum space of 0.1mm on each side of the transportation feature is required. |                                  |
| <b>Element Name:</b> Black_0.3mmSolidDoubleLine                                   |                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00019 |
| <b>Element Type:</b> Line - Simple                                                |                                                                                                                                                                                                                                          |                                  |
| <b>Description:</b> Two parallel Black 0.3mm Solid Lines (0.3mm wt)               |                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b>                                                                                                                                                                                                                       |                                  |
|                                                                                   | <b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                 |                                  |
|                                                                                   | <b>Note:</b> Spacing is variable to the width of the overpassing transportation feature                                                                                                                                                  |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                 | Criteria                                                                                                                                                                                                                                                        |
|----------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003217  | Dam / not soil / transportation system / standard (surface) | (MCC = 9 [Brick] or MCC = 21 [Concrete] or MCC = 62 [Masonry] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) and (TRS = 12 [Railway] or TRS = 13 [Road]) and (WID < 500) |

**Label Information**

|                                      |                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Dam / usable / concrete, masonry (surface)                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                     |
| <b>Label Description:</b>            | Dam / usable / other (surface)                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC]                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                   |
| <b>Label Description:</b>            | Dam / construction / concrete, masonry (surface)                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                        |
| <b>Label String:</b>                 | [ZI005_FNA] "(construction)"                                                                                                                                                                                    |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                       |
| <b>Label Description:</b>            | Dam / construction / other (surface)                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                             |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC] "(construction)"                                                                                                                                                                              |
| <b>Characteristics:</b>              | 1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                     |
| <b>Label Description:</b>            | Dam / not usable / concrete, masonry (surface)                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                    |
| <b>Label String:</b>                 | [ZI005_FNA] "(not usable)"                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                  |

**Dam (BI020) (continued)**

Surface

22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Dam / not usable / other (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])

**Label String:** [ZI005\_FNA] [MCC] "(not usable)"  
**Characteristics:** 1,1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Symbol Information**

|                                                                                   |                                                                                                                                                                                                                                          |                                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Dam_CarryingTransportation                                                                                                                                                                   |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                        |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the longest edges of the surface geometry aligned with transportation feature. A minimum space of 0.1mm on each side of the transportation feature is required. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.3mmDoubleLine                                 |                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00247 |
| <b>Element Type:</b> Line - Simple                                                |                                                                                                                                                                                                                                          |                                  |
| <b>Description:</b> Two parallel Dk-Brown1815 0.3mm Solid Lines (0.3mm wt)        |                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                  | <b>Parameters:</b>                                                                                                                                                                                                                       |                                  |
|                                                                                   | <b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                 |                                  |
|                                                                                   | <b>Note:</b> Spacing is variable to the width of the overpassing transportation feature                                                                                                                                                  |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                             | Criteria                                                                                                                              |
|----------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| R003502  | Dam / soil / transportation system / standard (surface) | (MCC = 104 [Soil] or MCC = 999 [Other] or MCC = -999999 [No Information]) and (TRS = 12 [Railway] or TRS = 13 [Road]) and (WID < 500) |

**Label Information**

**Label Description:** Dam / usable / named (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** [ZI005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

---

**Label Description:** Dam / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** [ZI005\_FNA] "(construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

---

**Label Description:** Dam / not usable (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** [ZI005\_FNA] "(not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Dam (BI020) (continued)**

Surface

**Symbol Sample**



Smith Dam

**Symbol Information**

|                                                                                   |                                                                                                                                                     |                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_Dam                                                                                                            |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                   |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the center of the surface geometry aligned with the length of the feature. |                                  |
| <b>Element Name:</b> Black_0.5mmSolidLine                                         |                                                                                                                                                     | <b>Element Reference:</b> L00014 |
| <b>Element Type:</b> Line - Simple                                                |                                                                                                                                                     |                                  |
| <b>Description:</b> Black 0.5mm Solid Line (0.5mm wt)                             |                                                                                                                                                     |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b>                                                                                                                                  |                                  |
|                                                                                   | <b>Lineweight:</b> 0.5mm                                                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                    | Criteria                                                                                                                                                                                                                                                                                                                                    |
|----------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003216  | Dam / not soil / no transportation system / standard (surface) | (MCC = 9 [Brick] or MCC = 21 [Concrete] or MCC = 62 [Masonry] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) and (TRS = 8 [No Transportation System] or TRS = 9 [Pedestrian] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (WID < 500) |

**Label Information**

|                                      |                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Dam / usable / concrete, masonry (surface)                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                     |
| <b>Label Description:</b>            | Dam / usable / other (surface)                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC]                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                   |
| <b>Label Description:</b>            | Dam / construction / concrete, masonry (surface)                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                        |
| <b>Label String:</b>                 | [ZI005_FNA] "(construction)"                                                                                                                                                                                    |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                       |
| <b>Label Description:</b>            | Dam / construction / other (surface)                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                             |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC] "(construction)"                                                                                                                                                                              |
| <b>Characteristics:</b>              | 1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                     |
| <b>Label Description:</b>            | Dam / concrete, masonry / not usable (surface)                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                    |
| <b>Label String:</b>                 | [ZI005_FNA] "(not usable)"                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 1,22                                                                                                                                                                                                            |

**Dam (BI020) (continued)**

Surface

1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Dam / not usable / other (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])

**Label String:** [ZI005\_FNA] [MCC] "(not usable)"  
**Characteristics:** 1,1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Symbol Sample**

Yorkville Dam

Brick

**Symbol Information**

|                                                                                   |                                                                                                                                                     |                                  |                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Dam                                                                                                     |                                  |                                    |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                   |                                  |                                    |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the center of the surface geometry aligned with the length of the feature. |                                  |                                    |
| <b>Element Name:</b> Dk-Brown1815_0.5mmSolidLine                                  |                                                                                                                                                     | <b>Element Reference:</b> L00156 | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Dk-Brown1815 0.5mm Solid Line (0.5mm wt)                      |                                                                                                                                                     |                                  |                                    |
| <b>Color Token:</b> Dk-Brown1815                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                      |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                | Criteria                                                                                                                                                                                                          |
|----------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003429  | Dam / soil / no transportation system / standard (surface) | (MCC = 104 [Soil] or MCC = 999 [Other] or MCC = -999999 [No Information]) and (TRS = 8 [No Transportation System] or TRS = 9 [Pedestrian] or TRS = 999 [Other] or TRS = -999999 [No Information]) and (WID < 500) |

**Label Information**

**Label Description:** Dam / usable / named (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** [ZI005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Dam / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** [ZI005\_FNA] "(construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Dam / not usable (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** [ZI005\_FNA] "(not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Dam (BI020) (continued)**

Surface

**Symbol Sample**

Harbaqa Dam

| Symbol Information                                                                |                                                                                                                                                                |                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_Dam                                                                                                                       |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the surface geometry centered along the length of the feature. Origin: Center of line |                                  |
| <b>Element Name:</b> Black_0.35mm-1.5LenLine                                      |                                                                                                                                                                | <b>Element Reference:</b> P00051 |
| <b>Element Type:</b> Point - Simple                                               |                                                                                                                                                                |                                  |
| <b>Description:</b> Black 1.5mm length line with a 0.35mm lineweight              |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br><b>Length:</b> 1.5mm                                                                                                                     | <b>Lineweight:</b> 0.35mm        |

| Symbol Portrayal Rules |                                                    |                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                                        | Criteria                                                                                                                                                                                                                           |
| R003218                | Dam / not soil / non-obstruction / small (surface) | (LZN < 375) and (MCC = 9 [Brick] or MCC = 21 [Concrete] or MCC = 62 [Masonry] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) and (HGT < 46) |

| Label Information                    |                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Dam / usable / concrete, masonry (surface)                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                     |
| <b>Label Description:</b>            | Dam / usable / other (surface)                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber]) |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC]                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                   |
| <b>Label Description:</b>            | Dam / construction / concrete, masonry (surface)                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                                                                                        |
| <b>Label String:</b>                 | [ZI005_FNA] "(construction)"                                                                                                                                                                                    |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                       |
| <b>Label Description:</b>            | Dam / construction / other (surface)                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (MCC = 9 [Brick] or MCC = 64 [Metal] or MCC = 86 [Rubble] or MCC = 107 [Steel] or MCC = 108 [Stone] or MCC = 117 [Wood] or MCC = 150 [Treated Timber])                             |
| <b>Label String:</b>                 | [ZI005_FNA] [MCC] "(construction)"                                                                                                                                                                              |
| <b>Characteristics:</b>              | 1,1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                     |
| <b>Label Description:</b>            | Dam / not usable / concrete, masonry (surface)                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MCC = 21 [Concrete] or MCC = 62 [Masonry])                                                                    |
| <b>Label String:</b>                 | [ZI005_FNA] "(not usable)"                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                  |



**Dam (BI020) (continued)**

Surface

**Symbol Sample**

- Guernsey Dam

**Disposal\_Site (AB000)**

Surface

**Symbol Information**

|                                                                                                            |                                                                                                                 |                                  |                                                      |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_DisposalSite                                                               |                                  |                                                      |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                                      |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                                      |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled                   |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |                                                      |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  |                                  | <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm |

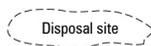
**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003278  | Disposal Site / all (surface) | ALL      |

**Label Information**

**Label Description:** Disposal Site / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Disposal site"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Distance\_Measuring\_Equipment\_(DME) (GA041 - Aeronautical Data Store)**

Point

**Symbol Information**

|                                                                                                                                                |                                                                                                                                                                                                                                                                                      |                                  |                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br>                                   | <b>Symbol Graphic Name:</b> PT_Blue072_DME                                                                                                                                                                                                                                           |                                  |                                                                            |
|                                                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |                                                                            |
|                                                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |                                                                            |
| <b>Element Name:</b> Blue072_Navaid_Other                                                                                                      |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00212 | <b>Element Type:</b> Point - Simple                                        |
| <b>Description:</b> Blue072 1.9mm diameter open circle with a 0.3mm lineweight and a Blue072 filled 0.4mm diameter filled circle in the center |                                                                                                                                                                                                                                                                                      |                                  |                                                                            |
| <b>Color Token:</b> Blue072                                                                                                                    | <b>Parameters:</b><br><b>Diameter:</b> 1.9mm<br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                             |                                  | <b>Note:</b> 0.4mm diameter filled circle in the center of the open circle |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Distance\_Measuring\_Equipment\_(DME) (GA041 - Aeronautical Data Store) (continued)**

Point

R003680 Distance Measuring Equipment (DME) (point) (HGT < 46)

**Label Information**

**Label Description:** Distance Measuring Equipment (DME) (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "DME"  
 [GA032\_NSX]  
**Characteristics:** 29,29  
 29 (Blue072, Condensed, 7 pt, Upper case)

**Symbol Sample**



**Ditch (BH030)**

Curve

**Symbol Information**

|                                                      |                                                                                                       |                                  |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                      | <b>Symbol Graphic Name:</b> LN_Cyan_Ditch_Perennial                                                   |                                  |
|                                                      | <b>Apply Label to Symbol:</b> No                                                                      |                                  |
|                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.1mmSolidLine             |                                                                                                       | <b>Element Reference:</b> L00108 |
| <b>Description:</b> Cyan 0.1mm Solid Line (0.1mm wt) |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br>Lineweight: 0.1mm                                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                                            |
|----------|---------------------------|---------------------------------------------------------------------|
| R003181  | Ditch / perennial (curve) | (Z1024_HYP = 1 [Perennial] or Z1024_HYP = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                                                                              |                                                                                                       |                                  |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                              | <b>Symbol Graphic Name:</b> LN_Cyan_Ditch_IntermittentDry                                             |                                  |
|                                                                              | <b>Apply Label to Symbol:</b> No                                                                      |                                  |
|                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.1mm-2mmLenDash-0.5mmGapLine                      |                                                                                                       | <b>Element Reference:</b> L00246 |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 2.0mm      Dash Spacing: 0.5mm              |                                  |

**Ditch (BH030) (continued)**

Curve

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria                                              |
|----------|-----------------------------------|-------------------------------------------------------|
| R003182  | Ditch / intermittent, dry (curve) | (ZI024_HYP = 2 [Intermittent] or ZI024_HYP = 4 [Dry]) |

**Symbol Sample**



**Dry\_Dock (BB090)**

Surface

**Symbol Information**

|                                                                                                            |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_DryDock                                                                    |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.2mmSolidLine                                                                  |                                                                                                                 | <b>Element Reference:</b> L00009 |
| <b>Description:</b> Black 0.2mm Solid Line (0.2mm wt)                                                      |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                  |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria        |
|----------|--------------------------|-----------------|
| R003168  | Dry Dock / all (surface) | (ARA >= 390625) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Dry Dock / all (surface)                    |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Dry dock"                                  |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Electric\_Power\_Station (AD010)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                                                 |  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_ElectricPowerStation                                                       |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |  |

**Electric\_Power\_Station (AD010) (continued)**

Surface

|                                                                               |                                  |                                    |
|-------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap) |                                  |                                    |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b>               |                                    |
|                                                                               | <b>Lineweight:</b> 0.1mm         | <b>Dash Length:</b> 1.0mm          |
|                                                                               |                                  | <b>Dash Spacing:</b> 0.5mm         |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria |
|----------|----------------------------------------|----------|
| R003293  | Electric Power Station / all (surface) | ALL      |

**Label Information**

|                                      |                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Electric Power Station / usable / known (surface)                                                                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (POS = 1 [Geothermal] or POS = 2 [Hydro-electric] or POS = 3 [Nuclear] or POS = 4 [Thermal] or POS = 5 [Tidal])                                         |
| <b>Label String:</b>                 | [POS] "power plant"                                                                                                                                                                                              |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                        |
| <b>Label Description:</b>            | Electric Power Station / usable / unknown (surface)                                                                                                                                                              |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (POS = 999 [Other] or POS = -999999 [No Information])                                                                                                   |
| <b>Label String:</b>                 | "Power plant"                                                                                                                                                                                                    |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                      |
| <b>Label Description:</b>            | Electric Power Station / construction / known (surface)                                                                                                                                                          |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (POS = 1 [Geothermal] or POS = 2 [Hydro-electric] or POS = 3 [Nuclear] or POS = 4 [Thermal] or POS = 5 [Tidal])                                                                     |
| <b>Label String:</b>                 | [POS] "power plant (construction)"                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                        |
| <b>Label Description:</b>            | Electric Power Station / construction / unknown (surface)                                                                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (POS = 999 [Other] or POS = -999999 [No Information])                                                                                                                               |
| <b>Label String:</b>                 | "Power plant (construction)"                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                      |
| <b>Label Description:</b>            | Electric Power Station / not usable / known (surface)                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (POS = 1 [Geothermal] or POS = 2 [Hydro-electric] or POS = 3 [Nuclear] or POS = 4 [Thermal] or POS = 5 [Tidal]) |
| <b>Label String:</b>                 | [POS] "power plant (not usable)"                                                                                                                                                                                 |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                        |
| <b>Label Description:</b>            | Electric Power Station / not usable / unknown (surface)                                                                                                                                                          |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (POS = 999 [Other] or POS = -999999 [No Information])                                                           |
| <b>Label String:</b>                 | "Power plant (not usable)"                                                                                                                                                                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                      |

**Electric\_Power\_Station (AD010) (continued)**

Surface

**Symbol Sample**



Power plant



Nuclear power plant

Point

**Symbol Information**

|                                                                                                                |                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_ElectricPowerStation                   |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria |
|----------|--------------------------------------|----------|
| R003294  | Electric Power Station / all (point) | ALL      |

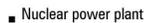
**Label Information**

|                                      |                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Electric Power Station / known / non-obstruction (point)                                                        |
| <b>Additional Labeling Criteria:</b> | (POS = 1 [Geothermal] or POS = 2 [Hydro-electric] or POS = 3 [Nuclear] or POS = 4 [Thermal] or POS = 5 [Tidal]) |
| <b>Label String:</b>                 | [POS] "power plant"                                                                                             |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                       |
| <b>Label Description:</b>            | Electric Power Station / unknown / non-obstruction (point)                                                      |
| <b>Additional Labeling Criteria:</b> | (POS = 999 [Other] or POS = -999999 [No Information])                                                           |
| <b>Label String:</b>                 | "Power plant"                                                                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                     |

**Symbol Sample**



Power plant



Nuclear power plant

**Elevation\_Contour (CA010)**

Curve

**Symbol Information**

|                                                                                                                  |                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandIndexAccurate                                 |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |

**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                                              |                                         |                                    |
|--------------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine             | <b>Element Reference:</b> L00023        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Dk-Brown1815                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                              |
|----------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| R003342  | Elevation Contour / land / index (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 1 [Index Contour] or HQC = 21 [Index Carrying Contour]) |

**Label Information**

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / land (curve)                                                                                          |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                                     |
| <b>Characteristics:</b>              | 20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / zero (curve)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                                    |
| <b>Characteristics:</b>              | 92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / minus (curve)                                                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | "MINUS' [ZVH]                                                                                                             |
| <b>Characteristics:</b>              | 92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|  |                                                                                                       |
|--|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandIndexApproximate                              |
|  | <b>Apply Label to Symbol:</b> Yes                                                                     |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                                    |                                         |                                                         |
|------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.2mm-5mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00176        | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Dk-Brown1815 0.2mm Dashed Line (0.2mm wt, 5mm dash, 0.5mm gap) |                                         |                                                         |
| <b>Color Token:</b> Dk-Brown1815                                                   | <b>Parameters:</b><br>Lineweight: 0.2mm | <b>Dash Length:</b> 5.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                          | Criteria                                                                                     |
|----------|------------------------------------------------------|----------------------------------------------------------------------------------------------|
| R003343  | Elevation Contour / land / index approximate (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 7 [Approximate Index Contour]) |

**Label Information**

|                                      |                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / land (curve)                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet. |

**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [ZVH]                                                                                                                     |
| <b>Characteristics:</b>              | 20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / zero (curve)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                                    |
| <b>Characteristics:</b>              | 92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / minus (curve)                                                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                                             |
| <b>Characteristics:</b>              | 92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



| Symbol Information                                           |                                                                                                       |                                    |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
|                                                              | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandIntermediateAccurate                          |                                    |
|                                                              | <b>Apply Label to Symbol:</b> Yes                                                                     |                                    |
|                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Dk-Brown1815_0.1mmSolidLine             | <b>Element Reference:</b> L00107                                                                      | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Dk-Brown1815 0.1mm Solid Line (0.1mm wt) |                                                                                                       |                                    |
| <b>Color Token:</b> Dk-Brown1815                             | <b>Parameters:</b><br>Lineweight: 0.1mm                                                               |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                            |
|----------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| R003346  | Elevation Contour / land / intermediate (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 2 [Intermediate Contour] or HQC = 19 [Intermediate Carrying Contour]) |

**Label Information**

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / land (curve)                                                                                          |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                                     |
| <b>Characteristics:</b>              | 20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / zero (curve)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                                    |
| <b>Characteristics:</b>              | 92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / minus (curve)                                                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                                             |
| <b>Characteristics:</b>              | 92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Elevation\_Contour (CA010) (continued)**

Curve

**Symbol Sample**

— 220 —

**Symbol Information**

|                                                                                      |                                                                                                       |                                  |                                                         |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
|     | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandIntermediateApproximate                       |                                  |                                                         |
|                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                                         |
|                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                                         |
| <b>Element Name:</b> Dk-Brown1815_0.1mm-5mmLenDash-0.5mmGapLine                      |                                                                                                       | <b>Element Reference:</b> L00177 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 5.0mm dash, 0.5mm gap) |                                                                                                       |                                  |                                                         |
| <b>Color Token:</b> Dk-Brown1815                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                        |                                  | <b>Dash Length:</b> 5.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                 | Criteria                                                                                             |
|----------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| R003347  | Elevation Contour / land / intermediate approximate (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 12 [Approximate Intermediate Contour]) |

**Label Information**

|                                                                   |                                                                                                                                            |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Elevation Contour / land (curve)<br>Contour values above the datum plane. ZVH value is converted from meters to feet.                      |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZVH]<br>20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                                      |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Elevation Contour / land / zero (curve)<br>Contour values at the datum plane.                                                              |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "ZERO"<br>92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                                     |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Elevation Contour / land / minus (curve)<br>Contour values below the datum plane. ZVH value is converted from meters to feet.              |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "MINUS" [ZVH]<br>92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**

— 220 —

**Elevation\_Contour (CA010) (continued)**

Curve

| Symbol Information                                                                   |                                                                                                       |                                  |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|     | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandHalfAuxiliary                                 |                                  |
|                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.1mm-3mmLenDashLine                               |                                                                                                       | <b>Element Reference:</b> L00109 |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) |                                                                                                       |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                     | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                      | <b>Lineweight:</b> 0.1mm                                                                              | <b>Dash Length:</b> 3.0mm        |
|                                                                                      |                                                                                                       | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                                                                                           |
|----------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| R003350  | Elevation Contour / land / half auxiliary (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 3 [Half Auxiliary Contour] or HQC = 20 [Auxiliary Carrying Contour]) |

**Label Information**

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / land (curve)                                                                                          |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                                     |
| <b>Characteristics:</b>              | 20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / zero (curve)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                                    |
| <b>Characteristics:</b>              | 92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / minus (curve)                                                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                                             |
| <b>Characteristics:</b>              | 92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**

-----10-----

| Symbol Information                                                                   |                                                                                                       |                                  |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|   | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_Land_QuarterAuxiliary                             |                                  |
|                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.1mm-1.5mmLenDashLine                             |                                                                                                       | <b>Element Reference:</b> L00117 |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 1.5mm dash, 0.5mm gap) |                                                                                                       |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                     | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                      | <b>Lineweight:</b> 0.1mm                                                                              | <b>Dash Length:</b> 1.5mm        |
|                                                                                      |                                                                                                       | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Elevation\_Contour (CA010) (continued)**

**Curve**

R003360 Elevation Contour / land / quarter auxiliary (curve) (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 14 [Quarter Auxiliary Contour])

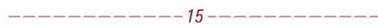
**Label Information**

**Label Description:** Elevation Contour / land (curve)  
**Additional Labeling Criteria:** Contour values above the datum plane. ZVH value is converted from meters to feet.  
**Label String:** [ZVH]  
**Characteristics:** 20  
 20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / land / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.  
**Label String:** "ZERO"  
**Characteristics:** 92  
 92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / land / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.  
**Label String:** "MINUS" [ZVH]  
**Characteristics:** 92,20  
 20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)  
 92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_Land_MoundIndex                                                                                                                                                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                        |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. Mounds within depressions are shown by ticks added to the lowest contour defining the mound. |

**Element Name:** Dk-Brown1815\_Land-MoundIndex | **Element Reference:** L00115 | **Element Type:** Line - Complex

**Description:** Dk-Brown1815 0.2mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5 long ticks (2.0mm tick interval)

|                                  |                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.2mmSolidLine<br><b>Repeating Point:</b> Dk-Brown1815_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 2.0mm |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Element Name:** Dk-Brown1815\_0.2mmSolidLine | **Element Reference:** L00023 | **Element Type:** Line - Simple

**Description:** Dk-Brown1815 0.2mm Solid Line (0.2mm wt)

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm |
|----------------------------------|------------------------------------------------|

**Element Name:** Dk-Brown1815\_0.1mm-0.5mmLenTick | **Element Reference:** P00065 | **Element Type:** Point - Simple

**Description:** Dk-Brown1815 0.1mm lineweight line that is 0.5mm long

|                                  |                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm   <b>Length:</b> 0.5mm<br><b>Orientation:</b> Based 90 degrees to line |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

R003358 Elevation Contour / land / mound index (curve) (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 8 [Mound Index Contour])



**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [ZVH]                                                                                                                     |
| <b>Characteristics:</b>              | 20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / land / zero (curve)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                                    |
| <b>Characteristics:</b>              | 92<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)                                                              |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                                             |
| <b>Characteristics:</b>              | 92,20<br>20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)<br>92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                         |                                                                                                                                                                                                                                                                          |                                  |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                                                               | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_Land_DepressionIndex                                                                                                                                                                                                 |                                  |
|                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                        |                                  |
|                                                                                                         | <b>Symbol Placement Instructions:</b> The uppermost depression contour shall have a tick interval of 3.0mm. Each successive descending contour shall have ticks at: 3.0mm, 2.0mm, 1.0mm, and 0.5mm. Ticks point downhill.                                                |                                  |
| <b>Element Name:</b> Dk-Brown1815_Land-DepressionIndex                                                  |                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00111 |
| <b>Element Type:</b> Line - Complex                                                                     |                                                                                                                                                                                                                                                                          |                                  |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5mm long ticks |                                                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                        | <b>Parameters:</b>                                                                                                                                                                                                                                                       |                                  |
|                                                                                                         | <b>Line Style:</b> Dk-Brown1815_0.2mmSolidLine                                                                                                                                                                                                                           |                                  |
|                                                                                                         | <b>Repeating Point:</b> Dk-Brown1815_0.1mm-0.5mmLenTick                                                                                                                                                                                                                  |                                  |
|                                                                                                         | <b>Repeating Point Interval:</b> Variable                                                                                                                                                                                                                                |                                  |
|                                                                                                         | <b>Note:</b> Each depression contour shall have ticks spaced equally on each descending depression contour. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by 1/2 to achieve legibility. |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine                                                        |                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00023 |
| <b>Element Type:</b> Line - Simple                                                                      |                                                                                                                                                                                                                                                                          |                                  |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line (0.2mm wt)                                            |                                                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                        | <b>Parameters:</b>                                                                                                                                                                                                                                                       |                                  |
|                                                                                                         | <b>Lineweight:</b> 0.2mm                                                                                                                                                                                                                                                 |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick                                                    |                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00065 |
| <b>Element Type:</b> Point - Simple                                                                     |                                                                                                                                                                                                                                                                          |                                  |
| <b>Description:</b> Dk-Brown1815 0.1mm lineweight line that is 0.5mm long                               |                                                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                        | <b>Parameters:</b>                                                                                                                                                                                                                                                       |                                  |
|                                                                                                         | <b>Lineweight:</b> 0.1mm                                                                                                                                                                                                                                                 | <b>Length:</b> 0.5mm             |
|                                                                                                         | <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                         | Criteria                                                                                    |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|
| R003354  | Elevation Contour / land / depression index (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 5 [Depression Index Contour]) |

**Label Information**

|                                      |                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / land (curve)                                                  |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet. |
| <b>Label String:</b>                 | [ZVH]                                                                             |





**Elevation\_Contour (CA010) (continued)**

Curve

**Additional Labeling Criteria:** Contour values above the datum plane. ZVH value is converted from meters to feet.

**Label String:** [ZVH]  
**Characteristics:** 20  
 20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / land / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.

**Label String:** "ZERO"  
**Characteristics:** 92  
 92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / land / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.

**Label String:** "MINUS" [ZVH]  
**Characteristics:** 92,20  
 20 (Dk-Brown1815, Condensed, Italic, 7 pt, Lower case)  
 92 (Dk-Brown1815, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                      |                                                                                                       |                                    |                            |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------|
|                                                                                      | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Contour_LandFormLine                                      |                                    |                            |
|                                                                                      | <b>Apply Label to Symbol:</b> No                                                                      |                                    |                            |
|                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |                            |
| <b>Element Name:</b> Dk-Brown1815_0.1mm-3mmLenDashLine                               | <b>Element Reference:</b> L00109                                                                      | <b>Element Type:</b> Line - Styled |                            |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) |                                                                                                       |                                    |                            |
| <b>Color Token:</b> Dk-Brown1815                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                        | <b>Dash Length:</b> 3.0mm          | <b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                  | Criteria                                                                     |
|----------|----------------------------------------------|------------------------------------------------------------------------------|
| R003352  | Elevation Contour / land / form line (curve) | (ESC = 1 [Land] or ESC = -999999 [No Information]) and (HQC = 4 [Form Line]) |

**Symbol Sample**



**Symbol Information**

|  |                                                                                                       |  |  |
|--|-------------------------------------------------------------------------------------------------------|--|--|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceIndexAccurate                                      |  |  |
|  | <b>Apply Label to Symbol:</b> Yes                                                                     |  |  |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |  |

**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                                      |                                         |                                    |
|------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_0.2mmSolidLine             | <b>Element Reference:</b> L00015        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                                                                                                   |
|----------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| R003344  | Elevation Contour / snow, ice / index (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 1 [Index Contour] or HQC = 21 [Index Carrying Contour]) |

**Label Information**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                                                     |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|  |                                                                                                       |
|--|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceIndexApproximate                                   |
|  | <b>Apply Label to Symbol:</b> Yes                                                                     |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                              |                                         |                                                         |
|------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Cyan_0.2mm-5mmLenDash-0.5mmGapLine                      | <b>Element Reference:</b> L00042        | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 5.0mm dash, 0.5mm gap) |                                         |                                                         |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br>Lineweight: 0.2mm | <b>Dash Length:</b> 5.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                               | Criteria                                                                          |
|----------|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| R003345  | Elevation Contour / snow, ice / index approximate (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 7 [Approximate Index Contour]) |

**Label Information**

|                                      |                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                             |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet. |

**Elevation\_Contour (CA010) (continued)**

Curve

**Label String:** [ZVH]  
**Characteristics:** 19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / snow, ice / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.

**Label String:** "ZERO"  
**Characteristics:** 90  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / snow, ice / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.

**Label String:** "MINUS" [ZVH]  
**Characteristics:** 90,19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                      |                                                                                                       |                                  |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                      | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceIntermediateAccurate                               |                                  |
|                                                      | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.1mmSolidLine             |                                                                                                       | <b>Element Reference:</b> L00108 |
| <b>Description:</b> Cyan 0.1mm Solid Line (0.1mm wt) |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br>Lineweight: 0.1mm                                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                          | Criteria                                                                                                                 |
|----------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| R003348  | Elevation Contour / snow, ice / intermediate (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 2 [Intermediate Contour] or HQC = 19 [Intermediate Carrying Contour]) |

**Label Information**

**Label Description:** Elevation Contour / snow, ice (curve)  
**Additional Labeling Criteria:** Contour values above the datum plane. ZVH value is converted from meters to feet.

**Label String:** [ZVH]  
**Characteristics:** 19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / snow, ice / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.

**Label String:** "ZERO"  
**Characteristics:** 90  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / snow, ice / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.

**Label String:** "MINUS" [ZVH]  
**Characteristics:** 90,19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)

**Elevation\_Contour (CA010) (continued)**

Curve

90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**

— 220 —

**Symbol Information**

|                                                                                   |                                                                                                       |                                  |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceIntermediateApproximate                            |                                  |                                           |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                           |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                           |
| <b>Element Name:</b> Cyan_0.1mm-5mmLenDash-0.5mmGapLine                           |                                                                                                       | <b>Element Reference:</b> L00178 | <b>Element Type:</b> Line - Styled        |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 5.0mm dash, 0.5mm gap)      |                                                                                                       |                                  |                                           |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b><br>Lineweight: 0.1mm                                                               |                                  | Dash Length: 5.0mm<br>Dash Spacing: 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                      | Criteria                                                                                  |
|----------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| R003349  | Elevation Contour / snow, ice / intermediate approximate (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 12 [Approximate Intermediate Contour]) |

**Label Information**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                                                     |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**

— 220 —

**Elevation\_Contour (CA010) (continued)**

Curve

| Symbol Information                                                                |                                                                                                       |                                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceHalfAuxiliary                                      |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.1mm-3mmLenDashLine                                    |                                                                                                       | <b>Element Reference:</b> L00110 |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap)      |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                   | <b>Lineweight:</b> 0.1mm                                                                              | <b>Dash Length:</b> 3.0mm        |
|                                                                                   |                                                                                                       | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                                                        |                                                                                                                         |
|------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                                            | Criteria                                                                                                                |
| R003351                | Elevation Contour / snow, ice / half auxiliary (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 3 [Half Auxiliary Contour] or HQC = 20 [Auxiliary Carrying Contour]) |

| Label Information                    |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                                                     |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**

-----10-----

| Symbol Information                                                                  |                                                                                                       |                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIce_QuarterAuxiliary                                  |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.1mm-1.5mmLenDash-0.5mmGapLine                           |                                                                                                       | <b>Element Reference:</b> L00118 |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 1.5mm dash, 0.5mm gap)        |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                                                            | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                     | <b>Lineweight:</b> 0.1mm                                                                              | <b>Dash Length:</b> 1.5mm        |
|                                                                                     |                                                                                                       | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Elevation\_Contour (CA010) (continued)**

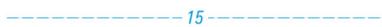
**Curve**

R003361 Elevation Contour / snow, ice / quarter auxiliary (curve) (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 14 [Quarter Auxiliary Contour])

**Label Information**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                                                     |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                             |                                                                                                                                                                                                                          |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>                                                                                   | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIce_MoundIndex                                                                                                                                                           |                                  |                                     |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                        |                                  |                                     |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. Mounds within depressions are shown by ticks added to the lowest contour defining the mound. |                                  |                                     |
| <b>Element Name:</b> Cyan_SnowIce-MoundIndex                                                                |                                                                                                                                                                                                                          | <b>Element Reference:</b> L00359 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.2mm Solid Line with repeating Cyan 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.2mmSolidLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 2.0mm                                                                |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mmSolidLine                                                                    |                                                                                                                                                                                                                          | <b>Element Reference:</b> L00015 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt)                                                        |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                           |                                  |                                     |
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick                                                                |                                                                                                                                                                                                                          | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 0.5mm length line with a 0.1mm lineweight                                          |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                       |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                         | Criteria                                                                    |
|----------|-----------------------------------------------------|-----------------------------------------------------------------------------|
| R003738  | Elevation Contour / snow, ice / mound index (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 8 [Mound Index Contour]) |

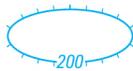
**Elevation\_Contour (CA010) (continued)**

Curve

**Label Information**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                                                     |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan Condensed, Italic, 7 pt, Upper case)                                                       |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                             |                                                                                                                                                                                                                          |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                             | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIce_MoundIntermediate                                                                                                                                                    |                                  |                                     |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                        |                                  |                                     |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. Mounds within depressions are shown by ticks added to the lowest contour defining the mound. |                                  |                                     |
| <b>Element Name:</b> Cyan_SnowIce-MoundIntermediate                                                         |                                                                                                                                                                                                                          | <b>Element Reference:</b> L00360 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.1mm Solid Line with repeating Cyan 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.1mmSolidLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 2.0mm                                                                |                                  |                                     |
| <b>Element Name:</b> Cyan_0.1mmSolidLine                                                                    |                                                                                                                                                                                                                          | <b>Element Reference:</b> L00108 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Cyan 0.1mm Solid Line (0.1mm wt)                                                        |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                                                                                                                           |                                  |                                     |
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick                                                                |                                                                                                                                                                                                                          | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 0.5mm length line with a 0.1mm lineweight                                          |                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                    | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                       |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                | Criteria                                                                           |
|----------|------------------------------------------------------------|------------------------------------------------------------------------------------|
| R003739  | Elevation Contour / snow, ice / mound intermediate (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 9 [Mound Intermediate Contour]) |

**Label Information**

|                                      |                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                             |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet. |

**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|  |                                                                                                                                                                                                                                         |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIcice_DepressionIndex                                                                                                                                                                   |
|  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                       |
|  | <b>Symbol Placement Instructions:</b> The uppermost depression contour shall have a tick interval of 3.0mm. Each successive descending depression contour shall have ticks spaced 3.0mm, 2.0mm, 1.0mm, and 0.5mm. Ticks point downhill. |

|                                                     |                                  |                                     |
|-----------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIcice-DepressionIndex | <b>Element Reference:</b> L00112 | <b>Element Type:</b> Line - Complex |
|-----------------------------------------------------|----------------------------------|-------------------------------------|

**Description:** Cyan 0.2mm Solid Line with repeating Blue 0.1mm wt 0.5mm long ticks

|                          |                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Cyan | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.2mmSolidLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Variable<br><b>Note:</b> Each depression contour shall have ticks spaced equally. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by one-half to achieve legibility. |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                          |                                  |                                    |
|------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_0.2mmSolidLine | <b>Element Reference:</b> L00015 | <b>Element Type:</b> Line - Simple |
|------------------------------------------|----------------------------------|------------------------------------|

**Description:** Cyan 0.2mm Solid Line (0.2mm wt)

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>Color Token:</b> Cyan | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm |
|--------------------------|------------------------------------------------|

|                                              |                                  |                                     |
|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|----------------------------------------------|----------------------------------|-------------------------------------|

**Description:** Cyan 0.5mm length line with a 0.1mm lineweight

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Color Token:</b> Cyan | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line |
|--------------------------|--------------------------------------------------------------------|

**Symbol Portrayal Rules**

| Rule Ref | Description                                              | Criteria                                                                         |
|----------|----------------------------------------------------------|----------------------------------------------------------------------------------|
| R003355  | Elevation Contour / snow, ice / depression index (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 5 [Depression Index Contour]) |

**Label Information**

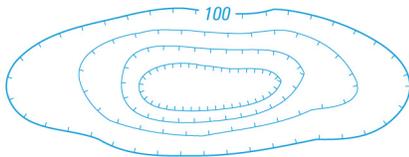
|                                      |                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Elevation Contour / snow, ice (curve)                                             |
| <b>Additional Labeling Criteria:</b> | Contour values above the datum plane. ZVH value is converted from meters to feet. |

**Elevation\_Contour (CA010) (continued)**

**Curve**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [ZVH]                                                                                                     |
| <b>Characteristics:</b>              | 19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / zero (curve)                                                              |
| <b>Additional Labeling Criteria:</b> | Contour values at the datum plane.                                                                        |
| <b>Label String:</b>                 | "ZERO"                                                                                                    |
| <b>Characteristics:</b>              | 90<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case)                                                      |
| <b>Label Description:</b>            | Elevation Contour / snow, ice / minus (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | Contour values below the datum plane. ZVH value is converted from meters to feet.                         |
| <b>Label String:</b>                 | "MINUS" [ZVH]                                                                                             |
| <b>Characteristics:</b>              | 90,19<br>19 (Cyan, Condensed, Italic, 7 pt, Lower case)<br>90 (Cyan, Condensed, Italic, 7 pt, Upper case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                                                                                                                                         | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIcice_DepressionIntermediate                                                                                                                                                                                                                                                                                                                                                    |                                     |
|                                                                                                                                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                               |                                     |
| <b>Symbol Placement Instructions:</b> The uppermost depression contour shall have a tick interval of 3.0mm. Each successive descending depression contour shall have ticks spaced 3.0mm, 2.0mm, 1.0mm, and 0.5mm. Ticks point downhill. |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Element Name:</b> Cyan_SnowIcice-DepressionIntermediate                                                                                                                                                                              | <b>Element Reference:</b> L00114                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.1mm Solid Line with repeating Blue 0.1mm wt 0.5mm long ticks                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                                                                                | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.1mmSolidLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Variable<br><b>Note:</b> Each depression contour shall have ticks spaced equally pointing into the depression. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by 1/2 to achieve legibility. |                                     |
| <b>Element Name:</b> Cyan_0.1mmSolidLine                                                                                                                                                                                                | <b>Element Reference:</b> L00108                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Cyan 0.1mm Solid Line (0.1mm wt)                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick                                                                                                                                                                                            | <b>Element Reference:</b> P00055                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 0.5mm length line with a 0.1mm lineweight                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                                                                                | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                              |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                     | Criteria                                                                                |
|----------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| R003357  | Elevation Contour / snow, ice / depression intermediate (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 6 [Depression Intermediate Contour]) |

**Label Information**

**Elevation\_Contour (CA010) (continued)**

Curve

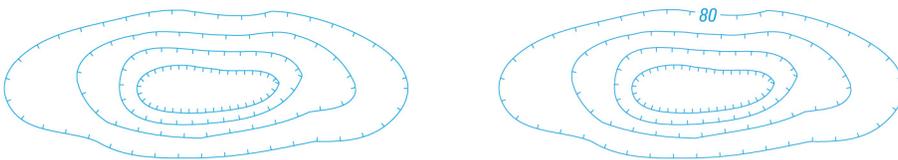
**DRAFT**

**Label Description:** Elevation Contour / snow, ice (curve)  
**Additional Labeling Criteria:** Contour values above the datum plane. ZVH value is converted from meters to feet.  
**Label String:** [ZVH]  
**Characteristics:** 19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / land / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.  
**Label String:** "ZERO"  
**Characteristics:** 90  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / land / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.  
**Label String:** "MINUS" [ZVH]  
**Characteristics:** 90,19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                          |                                                                                                                                                                                 |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                       | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIce_DepressionAuxiliary                                                                                                         |                                  |                                     |
|                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                                                                                                               |                                  |                                     |
|                                                                                                                          | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. This symbol is for one-half of the interval. Ticks point downhill.        |                                  |                                     |
| <b>Element Name:</b> Cyan_SnowIce-DepressionAuxiliary                                                                    |                                                                                                                                                                                 | <b>Element Reference:</b> L00120 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) with repeating Cyan 0.1mm wt 0.5 long ticks |                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.1mm-3mmLenDashLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Centered on each dash |                                  |                                     |
| <b>Element Name:</b> Cyan_0.1mm-3mmLenDashLine                                                                           |                                                                                                                                                                                 | <b>Element Reference:</b> L00110 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap)                                             |                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                 | <b>Lineweight:</b> 0.1mm                                                                                                                                                        | <b>Dash Length:</b> 3.0mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick                                                                             |                                                                                                                                                                                 | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 0.5mm length line with a 0.1mm lineweight                                                       |                                                                                                                                                                                 |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                 | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                              |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                  | Criteria                                                                              |
|----------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| R003363  | Elevation Contour / snow, ice / depression auxiliary (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 22 [Depression Auxiliary Contour]) |

**Elevation\_Contour (CA010) (continued)**

Curve

**Label Information**

**Label Description:** Elevation Contour / snow, ice (curve)  
**Additional Labeling Criteria:** Contour values above the datum plane. ZVH value is converted from meters to feet.

**Label String:** [ZVH]  
**Characteristics:** 19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)

**Label Description:** Elevation Contour / snow, ice / zero (curve)  
**Additional Labeling Criteria:** Contour values at the datum plane.

**Label String:** "ZERO"  
**Characteristics:** 90  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Label Description:** Elevation Contour / snow, ice / minus (curve)  
**Additional Labeling Criteria:** Contour values below the datum plane. ZVH value is converted from meters to feet.

**Label String:** "MINUS" [ZVH]  
**Characteristics:** 90,19  
 19 (Cyan, Condensed, Italic, 7 pt, Lower case)  
 90 (Cyan, Condensed, Italic, 7 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                              |                                                                                                       |                                  |                                                      |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|
|                                                                              | <b>Symbol Graphic Name:</b> LN_Cyan_Contour_SnowIceFormLine                                           |                                  |                                                      |
|                                                                              | <b>Apply Label to Symbol:</b> No                                                                      |                                  |                                                      |
|                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                                      |
| <b>Element Name:</b> Cyan_0.1mm-3mmLenDashLine                               |                                                                                                       | <b>Element Reference:</b> L00110 | <b>Element Type:</b> Line - Styled                   |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) |                                                                                                       |                                  |                                                      |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                        |                                  | <b>Dash Length:</b> 3.0mm <b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                          |
|----------|---------------------------------------------------|-------------------------------------------------------------------|
| R003353  | Elevation Contour / snow, ice / form line (curve) | (ESC = 2 [Snow Field and/or Ice-field]) and (HQC = 4 [Form Line]) |

**Symbol Sample**



**Elevation\_Tint\_Band (No Code)**

Surface

**Elevation\_Tint\_Band (No Code) (continued)**

Surface

| Symbol Information                                                                                                                    |                                                                                                    |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                            | <b>Symbol Graphic Name:</b> AR_ElevationTintBand_2                                                 |                                  |
|                                                                                                                                       | <b>Apply Label to Symbol:</b> No                                                                   |                                  |
|                                                                                                                                       | <b>Symbol Placement Instructions:</b> The area of the tint band is filled with the screened color. |                                  |
| <b>Element Name:</b> ElevationTintBand_2                                                                                              |                                                                                                    | <b>Element Reference:</b> A00118 |
| <b>Element Type:</b> Area - Fill                                                                                                      |                                                                                                    |                                  |
| <b>Description:</b> Tint Band 2 (Line Pattern 15 (LP-15) 35% coverage, 40L, 45 degree angle lines; Yellow 42% 75 degree angle screen) |                                                                                                    |                                  |
| <b>Color Token:</b> Yellow-42                                                                                                         | <b>Parameters:</b>                                                                                 |                                  |
|                                                                                                                                       | <b>Note:</b> Line Pattern #15                                                                      |                                  |

| Symbol Portrayal Rules |                                         |                                |
|------------------------|-----------------------------------------|--------------------------------|
| Rule Ref               | Description                             | Criteria                       |
| R003064                | Elevation Tint Band / tint #2 (surface) | Variable range based on region |

| Symbol Sample                                                                     |  |
|-----------------------------------------------------------------------------------|--|
|  |  |

| Symbol Information                                                                                                                      |                                                                                                    |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                            | <b>Symbol Graphic Name:</b> AR_ElevationTintBand_3                                                 |                                  |
|                                                                                                                                         | <b>Apply Label to Symbol:</b> No                                                                   |                                  |
|                                                                                                                                         | <b>Symbol Placement Instructions:</b> The area of the tint band is filled with the screened color. |                                  |
| <b>Element Name:</b> ElevationTintBand_3                                                                                                |                                                                                                    | <b>Element Reference:</b> A00119 |
| <b>Element Type:</b> Area - Fill                                                                                                        |                                                                                                    |                                  |
| <b>Description:</b> Tint Band 3 (Line Pattern 12 (LP-12) 67% coverage, 60L, 135 degree angle lines ; Yellow 42% 75 degree angle screen) |                                                                                                    |                                  |
| <b>Color Token:</b> Yellow-42                                                                                                           | <b>Parameters:</b>                                                                                 |                                  |
|                                                                                                                                         | <b>Note:</b> Line Pattern #12                                                                      |                                  |

| Symbol Portrayal Rules |                                         |                                |
|------------------------|-----------------------------------------|--------------------------------|
| Rule Ref               | Description                             | Criteria                       |
| R003089                | Elevation Tint Band / tint #3 (surface) | Variable range based on region |

| Symbol Sample                                                                       |  |
|-------------------------------------------------------------------------------------|--|
|  |  |

| Symbol Information                                                                                           |                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_ElevationTintBand_4                                                 |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                   |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The area of the tint band is filled with the screened color. |  |

**Elevation\_Tint\_Band (No Code) (continued)**

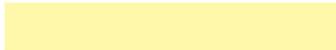
Surface

|                                                                     |                                                       |                                  |
|---------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> ElevationTintBand_4                            | <b>Element Reference:</b> A00120                      | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Tint Band 4 (Yellow 42% 75 degree angle screen) |                                                       |                                  |
| <b>Color Token:</b> Yellow-42                                       | <b>Parameters:</b><br><b>Screen Angle:</b> 75 degrees |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                       |
|----------|-----------------------------------------|--------------------------------|
| R003095  | Elevation Tint Band / tint #4 (surface) | Variable range based on region |

**Symbol Sample**



**Symbol Information**

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_ElevationTintBand_5                                                 |
|                               | <b>Apply Label to Symbol:</b> No                                                                   |
|                               | <b>Symbol Placement Instructions:</b> The area of the tint band is filled with the screened color. |

|                                                                                                                                                                                           |                                                                                                                |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> ElevationTintBand_5                                                                                                                                                  | <b>Element Reference:</b> A00121                                                                               | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Tint Band 5 (Line Pattern 15 (LP-15) 35% coverage, 40L, 45 degree angle lines; Dk-Brown 21% 75 degree angle screen coincident with Yellow 42% 15 degree angle screen) |                                                                                                                |                                  |
| <b>Color Token:</b> Dk-Brown1815-21_Yellow-42                                                                                                                                             | <b>Parameters:</b><br><b>Note:</b> Two colors are combined together to make one color tint of Line Pattern #15 |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                       |
|----------|-----------------------------------------|--------------------------------|
| R003104  | Elevation Tint Band / tint #5 (surface) | Variable range based on region |

**Symbol Sample**



**Symbol Information**

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_ElevationTintBand_6                                                 |
|                               | <b>Apply Label to Symbol:</b> No                                                                   |
|                               | <b>Symbol Placement Instructions:</b> The area of the tint band is filled with the screened color. |

|                                                                                                                                                                                         |                                                                                                               |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> ElevationTintBand_6                                                                                                                                                | <b>Element Reference:</b> A00122                                                                              | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Tint Band 6 (Line Pattern 5 (LP-5) 46% coverage, 60L, 45 degree angle lines; Dk-Brown 21% 75 degree angle screen coincident with Yellow 42% 15 degree angle screen) |                                                                                                               |                                  |
| <b>Color Token:</b> Dk-Brown1815-21_Yellow-42                                                                                                                                           | <b>Parameters:</b><br><b>Note:</b> Two colors are combined together to make one color tint of Line Pattern #5 |                                  |

**Elevation\_Tint\_Band (No Code) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                       |
|----------|-----------------------------------------|--------------------------------|
| R003107  | Elevation Tint Band / tint #6 (surface) | Variable range based on region |

**Symbol Sample**



**Embankment (DB090)**

Curve

**Symbol Information**

|  |                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Embankment_GreaterthanContourInterval                                           |
|  | <b>Apply Label to Symbol:</b> No                                                                                            |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |

|                                                      |                                  |                                     |
|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_GreaterThanContour | <b>Element Reference:</b> L00066 | <b>Element Type:</b> Line - Complex |
|------------------------------------------------------|----------------------------------|-------------------------------------|

**Description:** Dk-Brown1815 0.15mm Solid Line with Ticks (0.15mm wt, 0.5mm long)

|                                  |                                                                                                                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.15mmSolidLine<br><b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 1.5mm<br><b>Note:</b> Tick end is on and at 90 degrees to line, facing downhill. Tick Interval: 1.5mm |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                   |                                  |                                    |
|---------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.15mmSolidLine | <b>Element Reference:</b> L00240 | <b>Element Type:</b> Line - Simple |
|---------------------------------------------------|----------------------------------|------------------------------------|

**Description:** Dk-Brown1815 0.15mm Solid Line (0.15mm wt)

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm |
|----------------------------------|-------------------------------------------------|

|                                                       |                                  |                                     |
|-------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
|-------------------------------------------------------|----------------------------------|-------------------------------------|

**Description:** Dk-Brown1815 0.5mm length line with a 0.15mm lineweight

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| <b>Color Token:</b> Dk-Brown1815 | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line |
|----------------------------------|--------------------------------------------------------------------|

**Symbol Portrayal Rules**

| Rule Ref | Description                                                           | Criteria                                       |
|----------|-----------------------------------------------------------------------|------------------------------------------------|
| R003248  | Embankment / fill / greater than or equal to contour interval (curve) | (FIC = 2 [Fill]) and (PFH >= contour interval) |

**Symbol Sample**



**Symbol Information**

|  |                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Embankment_LessthanContourInterval                                              |
|  | <b>Apply Label to Symbol:</b> No                                                                                            |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |

**Embankment (DB090) (continued)**

Curve

|                                                                                                                                                  |                                                                                                                                                                                                                                                                  |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_LessThanContour                                                                                                |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00261 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3mm dash, 0.5mm gap) with two Dk-Brown1815_0.15mm wt-0.5mmLenTicks on each dash. |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Two ticks are placed centered on the dash at 90 degrees spaced 1.5mm apart. |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine                                                                                 |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00242 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3.0mm dash, 0.5mm gap)                                                           |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                  | <b>Dash Length:</b> 3.0mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick                                                                                            |                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Dk-Brown1815 0.5mm length line with a 0.15mm lineweight                                                                      |                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                 | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                               |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                            | Criteria                                      |
|----------|--------------------------------------------------------|-----------------------------------------------|
| R003249  | Embankment / fill / less than contour interval (curve) | (FIC = 2 [Fill]) and (PFH < contour interval) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                        | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Embankment_DykeWithTransportation                                                                                                                                                                                                                                        |                                  |                                     |
|                                                                                                                        | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                                                     |                                  |                                     |
|                                                                                                                        | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Distance between parallel lines is variable to overpassing symbol width (1.6mm for divided roads & railways, 1.4mm for multilane roads, 1.2mm for one lane roads, 0.8mm for pipelines, cart tracks and trails) |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_Levee                                                                                |                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00061 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line casing varying based upon separation; Ticks (0.15mm wt, 0.5mm long) |                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                       | <b>Parameters:</b><br><b>Line Style:</b> Dk-Brown1815_0.15mmSolidDoubleLines<br><b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 1.5mm<br><b>Note:</b> Tick end is on and at 90 degrees to line, facing downhill. Tick Interval: 1.5mm                                   |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mmSolidDoubleLines                                                               |                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00241 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Two parallel Dk-Brown1815 0.15mm Solid Lines (0.15mm wt)                                           |                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> Spacing is variable to the width of the overpassing feature                                                                                                                                                                                          |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick                                                                  |                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Dk-Brown1815 0.5mm length line with a 0.15mm lineweight                                            |                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                       | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                   |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Embankment (DB090) (continued)**

Curve

R003250 Embankment / with transportation (curve) (FIC = 1 [Mound] or FIC = 3 [Dyke] or FIC = 5 [Levee] or FIC = 6 [Divider] or FIC = 999 [Other] or FIC = -999999 [No Information]) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 10 [Pipeline] or TRS = 12 [Railway] or TRS = 13 [Road])

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                       |                                  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_Embankment_DykeWithoutTransportation                      |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                      |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Dk-Brown1815_Embankment (WithoutTransport)                                                |                                                                                                       | <b>Element Reference:</b> L00059 |
| <b>Element Type:</b> Line - Complex                                                                            |                                                                                                       |                                  |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line with Ticks (0.15mm wt, 0.8mm long)                          |                                                                                                       |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                               | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                                                | <b>Line Style:</b> Dk-Brown1815_0.15mmSolidLine                                                       |                                  |
|                                                                                                                | <b>Repeating Point:</b> Dk-Brown1815_0.15mm-0.8mmLenTick                                              |                                  |
|                                                                                                                | <b>Repeating Point Interval:</b> 1.5mm                                                                |                                  |
|                                                                                                                | <b>Note:</b> Tick is centered and 90 degrees to line. Tick Interval is 1.5mm                          |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.15mmSolidLine                                                              |                                                                                                       | <b>Element Reference:</b> L00240 |
| <b>Element Type:</b> Line - Simple                                                                             |                                                                                                       |                                  |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line (0.15mm wt)                                                 |                                                                                                       |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                               | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.15mm                                                                             |                                  |
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.8mmLenTick                                                          |                                                                                                       | <b>Element Reference:</b> P00067 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                       |                                  |
| <b>Description:</b> Dk-Brown1815 0.8 mm length line with a 0.15mm lineweight                                   |                                                                                                       |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                               | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                                                | <b>Orientation:</b> Centered 90 degrees to line                                                       |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                           |
|----------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003251  | Embankment / without transportation (curve) | (FIC = 1 [Mound] or FIC = 3 [Dyke] or FIC = 5 [Levee] or FIC = 6 [Divider] or FIC = 999 [Other] or FIC = -999999 [No Information]) and (TRS = 8 [No Transportation System] or TRS = 999 [Other] or TRS = -999999 [No Information]) |

**Symbol Sample**



**Engine\_Test\_Cell (AF060)**

Point

**Symbol Information**

|                                                                                                                  |                                                                       |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_EngineTestCell                   |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |  |

**Engine\_Test\_Cell (AF060) (continued)**

Point

|                                                              |                                                                             |                                     |
|--------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_0.8mmFilledSquare                 | <b>Element Reference:</b> P00006                                            | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm |                                                                             |                                     |
| <b>Color Token:</b> Black                                    | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria   |
|----------|--------------------------------------------|------------|
| R003506  | Engine Test Cell / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Engine Test Cell / non-obstruction (point)  |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Engine test cell"                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**

■ Engine test cell

**Engineered\_Earthwork (AH025)**

Curve

**Symbol Information**

|                                                                                     |                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_EngineeredEarthwork                                              |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                       |                                                |                                    |
|-------------------------------------------------------|------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_0.3mmSolidLine             | <b>Element Reference:</b> L00011               | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt) |                                                |                                    |
| <b>Color Token:</b> Black                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria |
|----------|------------------------------------|----------|
| R003508  | Engineered Earthwork / all (curve) | ALL      |

**Label Information**

|                                      |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| <b>Label Description:</b>            | Engineered Earthwork / other (curve)                          |
| <b>Additional Labeling Criteria:</b> | (EET = 1 [Battery] or EET = 4 [Rampart] or EET = 5 [Redoubt]) |
| <b>Label String:</b>                 | [EET]                                                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                   |
| <b>Label Description:</b>            | Engineered Earthwork / parapet (curve)                        |
| <b>Additional Labeling Criteria:</b> | (EET = 2 [Military Parapet])                                  |
| <b>Label String:</b>                 | "Parapet"                                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                   |

**Engineered\_Earthwork (AH025) (continued)**

Curve

**Label Description:** Engineered Earthwork / all (curve)  
**Additional Labeling Criteria:** (EET = 3 [Military Trench] or EET = 999 [Other] or EET = -999999 [No Information])  
**Label String:** "Trench"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Extraction\_Mine (AA010)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                              |                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Mine_Operational                                                                                                        |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                            |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area. |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 | <b>Element Reference:</b> L00210                                                                                                                             | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm                                                          |                                    |
| <b>Element Name:</b> Black_PickAxeShovel                                                                   | <b>Element Reference:</b> P00001                                                                                                                             | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black pickaxe and shovel                                                               |                                                                                                                                                              |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_PickAxeShovel in Annex H for detailed drawing instructions.                                            |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003266  | Extraction Mine / usable / not peat (surface) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MZN = 1 [Borrow-pit] or MZN = 3 [Opencast] or MZN = 4 [Placer] or MZN = 5 [Prospect] or MZN = 6 [Area Strip-mine] or MZN = 9 [Below Surface] or MZN = 10 [Quarry] or MZN = 11 [Contour Strip-mine] or MZN = 12 [Strip-mine] or MZN = 13 [Dredge] or MZN = 999 [Other] or MZN = -999999 [No Information]) and (FFN = 40 [Mining or Quarrying] or FFN = 50 [Solid Mineral Fuel Mining] or FFN = 70 [Metal Ore Mining] or FFN = 83 [Chemical Mining] or FFN = 85 [Salt Extraction] or FFN = 87 [Mineral Mining] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

**Label Description:** Extraction Mine / not peat (surface)  
**Additional Labeling Criteria:** (PPO = 8 [Basalt] or PPO = 9 [Bauxite] or PPO = 17 [Clay] or PPO = 18 [Coal] or PPO = 26 [Copper] or PPO = 33 [Diamond] or PPO = 34 [Diatomaceous Earth] or PPO = 35 [Dolomite] or PPO = 48 [Gold] or PPO = 50 [Granite] or PPO = 53 [Gravel] or PPO = 58 [Iron] or PPO = 59 [Lead] or PPO = 65 [Manganese] or PPO = 66 [Marble] or PPO = 85 [Porphyry] or PPO = 88 [Pumice] or PPO = 89 [Quartz] or PPO = 93 [Rock] or PPO = 95 [Salt] or PPO = 96 [Sand] or PPO = 97 [Sandstone] or PPO = 105 [Silver] or PPO = 110 [Stone] or PPO = 118 [Travertine] or PPO = 120 [Uranium] or PPO = 126 [Zinc] or PPO = 130 [Chalk] or PPO = 151 [Chromium] or PPO = 152 [Nickel] or PPO = 153 [Tin] or PPO = 173 [Fluorite] or PPO = 204 [Phosphate] or PPO = 224 [Vanadium] or PPO = 283 [Mica] or PPO = 339 [Selenium])  
**Label String:** [PPO]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Extraction\_Mine (AA010) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                                                                                 |                                    |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Mine_NotUsable                                                                                                                                                             |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                               |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The point shape is centered inside the area.                                                    |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 | <b>Element Reference:</b> L00210                                                                                                                                                                                | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                                                                                                                 |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm                                                                                                             |                                    |
| <b>Element Name:</b> Black_PickAxeShovel180                                                                | <b>Element Reference:</b> P00002                                                                                                                                                                                | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black pickaxe and shovel rotated 180 degrees                                           |                                                                                                                                                                                                                 |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Orientation:</b> Rotated 180 degrees<br><b>Note:</b> See Element: Black_PickAxeShovel (P0001) in Annex H for detailed drawing instructions. Image will need to be rotated 180 degrees. |                                    |

**Symbol Portrayal Rules**

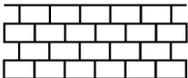
| Rule Ref | Description                                       | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003267  | Extraction Mine / not usable / not peat (surface) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MZN = 1 [Borrow-pit] or MZN = 3 [Opencast] or MZN = 4 [Placer] or MZN = 5 [Prospect] or MZN = 6 [Area Strip-mine] or MZN = 9 [Below Surface] or MZN = 10 [Quarry] or MZN = 11 [Contour Strip-mine] or MZN = 12 [Strip-mine] or MZN = 13 [Dredge] or MZN = 999 [Other] or MZN = -999999 [No Information]) and (FFN = 40 [Mining or Quarrying] or FFN = 50 [Solid Mineral Fuel Mining] or FFN = 70 [Metal Ore Mining] or FFN = 83 [Chemical Mining] or FFN = 85 [Salt Extraction] or FFN = 87 [Mineral Mining] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Extraction Mine / not peat (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (PPO = 8 [Basalt] or PPO = 9 [Bauxite] or PPO = 17 [Clay] or PPO = 18 [Coal] or PPO = 26 [Copper] or PPO = 33 [Diamond] or PPO = 34 [Diatomaceous Earth] or PPO = 35 [Dolomite] or PPO = 48 [Gold] or PPO = 50 [Granite] or PPO = 53 [Gravel] or PPO = 58 [Iron] or PPO = 59 [Lead] or PPO = 65 [Manganese] or PPO = 66 [Marble] or PPO = 85 [Porphyry] or PPO = 88 [Pumice] or PPO = 89 [Quartz] or PPO = 93 [Rock] or PPO = 95 [Salt] or PPO = 96 [Sand] or PPO = 97 [Sandstone] or PPO = 105 [Silver] or PPO = 110 [Stone] or PPO = 118 [Travertine] or PPO = 120 [Uranium] or PPO = 126 [Zinc] or PPO = 130 [Chalk] or PPO = 151 [Chromium] or PPO = 152 [Nickel] or PPO = 153 [Tin] or PPO = 173 [Fluorite] or PPO = 204 [Phosphate] or PPO = 224 [Vanadium] or PPO = 283 [Mica] or PPO = 339 [Selenium]) |
| <b>Label String:</b>                 | [PPO]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Symbol Sample**

|                                                                                     |                                                                                          |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|  |  Lead |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

| Symbol Information                                                                                           |                                                                                             |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Mine_PeatCuttings                                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                           |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |

**Extraction\_Mine (AA010) (continued)**

Surface

|                                        |                                                                                                                        |                                     |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_PeateryFill | <b>Element Reference:</b> A00001                                                                                       | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Black Peat Fill    |                                                                                                                        |                                     |
| <b>Color Token:</b> Black              | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Black_PeateryFill in Annex I<br><b>Note:</b> Area Pattern #129 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria                                                                                                   |
|----------|----------------------------------|------------------------------------------------------------------------------------------------------------|
| R003268  | Extraction Mine / peat (surface) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MZN = 8 [Peatery] or FFN = 84 [Peat Extraction]) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Extraction Mine / peat (surface)            |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Peat cuttings"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



Point

| Symbol Information                                                                  |                                                                                                                   |                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_Mine_Operational                                                             |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                 |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Intersection of handles                                             |                                    |
| <b>Element Name:</b> Black_PickAxeShovel                                            | <b>Element Reference:</b> P00001                                                                                  | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black pickaxe and shovel                                        |                                                                                                                   |                                    |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br><b>Note:</b> See Element: Black_PickAxeShovel in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003269  | Extraction Mine / usable / not peat (point) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MZN = 1 [Borrow-pit] or MZN = 3 [Opencast] or MZN = 4 [Placer] or MZN = 5 [Prospect] or MZN = 6 [Area Strip-mine] or MZN = 9 [Below Surface] or MZN = 10 [Quarry] or MZN = 11 [Contour Strip-mine] or MZN = 12 [Strip-mine] or MZN = 13 [Dredge] or MZN = 999 [Other] or MZN = -999999 [No Information]) and (FFN = 40 [Mining or Quarrying] or FFN = 50 [Solid Mineral Fuel Mining] or FFN = 70 [Metal Ore Mining] or FFN = 83 [Chemical Mining] or FFN = 85 [Salt Extraction] or FFN = 87 [Mineral Mining] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Extraction Mine / not peat (point)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Additional Labeling Criteria:</b> | (PPO = 8 [Basalt] or PPO = 9 [Bauxite] or PPO = 17 [Clay] or PPO = 18 [Coal] or PPO = 26 [Copper] or PPO = 33 [Diamond] or PPO = 34 [Diatomaceous Earth] or PPO = 35 [Dolomite] or PPO = 48 [Gold] or PPO = 50 [Granite] or PPO = 53 [Gravel] or PPO = 58 [Iron] or PPO = 59 [Lead] or PPO = 65 [Manganese] or PPO = 66 [Marble] or PPO = 85 [Porphyry] or PPO = 88 [Pumice] or PPO = 89 [Quartz] or PPO = 93 [Rock] or PPO = 95 [Salt] or PPO = 96 [Sand] or PPO = 97 [Sandstone] or PPO = 105 [Silver] or PPO = 110 [Stone] or PPO = 118 [Travertine] or PPO = 120 [Uranium] or PPO = 126 [Zinc] or PPO = 130 [Chalk] or PPO = 151 [Chromium] or PPO = 152 [Nickel] or PPO = 153 [Tin] or PPO = 173 [Fluorite] or PPO = 204 [Phosphate] or PPO = 224 [Vanadium] or PPO = 283 [Mica] or PPO = 339 [Selenium]) |
| <b>Label String:</b>                 | [PPO]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Extraction\_Mine (AA010) (continued)**

**Point**

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

✘ Coal

**Symbol Information**

|                                                                                                                |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Mine_NotUsable                                                                                                                                                             |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                               |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Intersection of handles                                                                                                                                           |
| <b>Element Name:</b> Black_PickAxeShovel180                                                                    |                                                                                                                                                                                                                 |
| <b>Element Reference:</b> P00002                                                                               |                                                                                                                                                                                                                 |
| <b>Element Type:</b> Point - Shape                                                                             |                                                                                                                                                                                                                 |
| <b>Description:</b> Black pickaxe and shovel rotated 180 degrees                                               |                                                                                                                                                                                                                 |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Orientation:</b> Rotated 180 degrees<br><b>Note:</b> See Element: Black_PickAxeShovel (P0001) in Annex H for detailed drawing instructions. Image will need to be rotated 180 degrees. |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003270  | Extraction Mine / not usable / not peat (point) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (MZN = 1 [Borrow-pit] or MZN = 3 [Opencast] or MZN = 4 [Placer] or MZN = 5 [Prospect] or MZN = 6 [Area Strip-mine] or MZN = 9 [Below Surface] or MZN = 10 [Quarry] or MZN = 11 [Contour Strip-mine] or MZN = 12 [Strip-mine] or MZN = 13 [Dredge] or MZN = 999 [Other] or MZN = -999999 [No Information]) and (FFN = 40 [Mining or Quarrying] or FFN = 50 [Solid Mineral Fuel Mining] or FFN = 70 [Metal Ore Mining] or FFN = 83 [Chemical Mining] or FFN = 85 [Salt Extraction] or FFN = 87 [Mineral Mining] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

**Label Description:** Extraction Mine / not peat (point)

**Additional Labeling Criteria:** (PPO = 8 [Basalt] or PPO = 9 [Bauxite] or PPO = 17 [Clay] or PPO = 18 [Coal] or PPO = 26 [Copper] or PPO = 33 [Diamond] or PPO = 34 [Diatomaceous Earth] or PPO = 35 [Dolomite] or PPO = 48 [Gold] or PPO = 50 [Granite] or PPO = 53 [Gravel] or PPO = 58 [Iron] or PPO = 59 [Lead] or PPO = 65 [Manganese] or PPO = 66 [Marble] or PPO = 85 [Porphyry] or PPO = 88 [Pumice] or PPO = 89 [Quartz] or PPO = 93 [Rock] or PPO = 95 [Salt] or PPO = 96 [Sand] or PPO = 97 [Sandstone] or PPO = 105 [Silver] or PPO = 110 [Stone] or PPO = 118 [Travertine] or PPO = 120 [Uranium] or PPO = 126 [Zinc] or PPO = 130 [Chalk] or PPO = 151 [Chromium] or PPO = 152 [Nickel] or PPO = 153 [Tin] or PPO = 173 [Fluorite] or PPO = 204 [Phosphate] or PPO = 224 [Vanadium] or PPO = 283 [Mica] or PPO = 339 [Selenium])

**Label String:** [PPO]

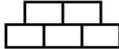
**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

✘ Iron

## Extraction\_Mine (AA010) (continued)

Point

| Symbol Information                                                                                         |                                                                                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Mine_PeatCutting                                                                                                                           |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of symbol                                                                                                                  |                                  |
| <b>Element Name:</b> Black_PeatCutting                                                                     |                                                                                                                                                                                 | <b>Element Reference:</b> P00084 |
| <b>Element Type:</b> Point - Simple                                                                        |                                                                                                                                                                                 |                                  |
| <b>Description:</b> Black peat cutting pattern                                                             |                                                                                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> Total of five 1.5mm width, 1.0mm height rectangles, two rows staggered, three on the bottom row, two on top row. |                                  |

## Symbol Portrayal Rules

| Rule Ref | Description                    | Criteria                                                                                                   |
|----------|--------------------------------|------------------------------------------------------------------------------------------------------------|
| R003271  | Extraction Mine / peat (point) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (MZN = 8 [Peatery] or FFN = 84 [Peat Extraction]) |

## Symbol Sample



## Facility (AL010)

Surface

| Symbol Information                                                                                           |                                                                                                                 |                                                      |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Facility                                                                   |                                                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |                                                      |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                                      |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                   |                                                                                                                 | <b>Element Reference:</b> L00210                     |
| <b>Element Type:</b> Line - Styled                                                                           |                                                                                                                 |                                                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                |                                                                                                                 |                                                      |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  | <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm |

## Symbol Portrayal Rules

| Rule Ref | Description                   | Criteria                                                                                                                                                                                     |
|----------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003280  | Facility / refinery (surface) | (FFN = 91 [Gas Oil Separation] or FFN = 95 [Ore Dressing] or FFN = 113 [Sugar Refining] or FFN = 192 [Petroleum Refining] or FFN = 195 [Chemical Manufacture] or FFN = 242 [Metal Refining]) |

## Label Information

## Label Description:

Facility / refinery / usable / known (surface)

## Additional Labeling Criteria:

(PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO

## Facility (AL010) (continued)

## Surface

= 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel]

**Label String:** ZI014\_PPO "refinery"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / refinery / usable / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Refinery"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Facility / refinery / construction / known (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])

**Label String:** ZI014\_PPO "refinery (construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / refinery / construction / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Refinery (construction)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Facility (AL010) (continued)**

Surface

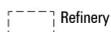
**Label Description:** Facility / refinery / not usable / known (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])

**Label String:** [ZI014\_PPO] "refinery (not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / refinery / not usable / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Refinery (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                 |                                  |                                                         |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Facility                                                                   |                                  |                                                         |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                                         |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                                         |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  |                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                                                                                                             |
|----------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| R003281  | Facility / mill (surface) | (FFN = 107 [Grain Milling] or FFN = 161 [Sawmilling] or FFN = 171 [Paper-mill] or FFN = 235 [Cement Mill] or FFN = 241 [Steel Mill]) |

**Label Information**

## Facility (AL010) (continued)

## Surface

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Facility / mill / usable / known (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014_PPO = 1 [Aircraft] or ZI014_PPO = 2 [Aluminum] or ZI014_PPO = 3 [Ammunition] or ZI014_PPO = 4 [Asphalt] or ZI014_PPO = 5 [Motor Vehicle] or ZI014_PPO = 13 [Brick] or ZI014_PPO = 15 [Cement] or ZI014_PPO = 16 [Chemical] or ZI014_PPO = 18 [Coal] or ZI014_PPO = 20 [Coffee] or ZI014_PPO = 21 [Coke] or ZI014_PPO = 23 [Concrete] or ZI014_PPO = 25 [Consumer Goods] or ZI014_PPO = 26 [Copper] or ZI014_PPO = 28 [Cotton] or ZI014_PPO = 32 [Desalinated Water] or ZI014_PPO = 37 [Electric Power] or ZI014_PPO = 38 [Explosive] or ZI014_PPO = 39 [Fish] or ZI014_PPO = 41 [Food] or ZI014_PPO = 43 [Frozen Water] or ZI014_PPO = 44 [Fruit] or ZI014_PPO = 45 [Gas] or ZI014_PPO = 46 [Petrol] or ZI014_PPO = 47 [Glass] or ZI014_PPO = 48 [Gold] or ZI014_PPO = 57 [Ice] or ZI014_PPO = 58 [Iron] or ZI014_PPO = 59 [Lead] or ZI014_PPO = 60 [Lime] or ZI014_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014_PPO = 63 [Lumber] or ZI014_PPO = 65 [Manganese] or ZI014_PPO = 69 [Metal] or ZI014_PPO = 70 [Milk] or ZI014_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014_PPO = 80 [Paper] or ZI014_PPO = 83 [Petroleum] or ZI014_PPO = 84 [Plastic] or ZI014_PPO = 87 [Prestressed Concrete] or ZI014_PPO = 90 [Radioactive Material] or ZI014_PPO = 92 [Rice] or ZI014_PPO = 94 [Rubber] or ZI014_PPO = 95 [Salt] or ZI014_PPO = 101 [Sewage] or ZI014_PPO = 105 [Silver] or ZI014_PPO = 106 [Snow] or ZI014_PPO = 109 [Steel] or ZI014_PPO = 111 [Sugar] or ZI014_PPO = 114 [Textile] or ZI014_PPO = 117 [Tobacco] or ZI014_PPO = 120 [Uranium] or ZI014_PPO = 121 [Vegetation Product] or ZI014_PPO = 122 [Water] or ZI014_PPO = 123 [Wine] or ZI014_PPO = 126 [Zinc] or ZI014_PPO = 136 [Biochemical] or ZI014_PPO = 137 [Petrochemical] or ZI014_PPO = 146 [Heating Steam and/or Water] or ZI014_PPO = 147 [Electronic Equipment] or ZI014_PPO = 148 [Electrical Equipment] or ZI014_PPO = 150 [Fertilizer] or ZI014_PPO = 154 [Munitions] or ZI014_PPO = 155 [Olive Oil] or ZI014_PPO = 156 [Whale Products] or ZI014_PPO = 157 [Petroleum and/or Natural Gas] or ZI014_PPO = 160 [Milled Grain] or ZI014_PPO = 165 [Clothing] or ZI014_PPO = 192 [Petroleum Lubricant] or ZI014_PPO = 214 [Biodiesel] or ZI014_PPO = 279 [Fluorine] or ZI014_PPO = 325 [Phosphorus] or ZI014_PPO = 435 [Nuclear Fuel]) |
| <b>Label String:</b>                 | [ZI014_PPO] "mill"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Label Description:</b>            | Facility / mill / usable / unknown (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014_PPO = 73 [No Product] or ZI014_PPO = 999 [Other] or ZI014_PPO = -999999 [No Information])                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Label String:</b>                 | "Mill"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Label Description:</b>            | Facility / mill / construction / known (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (ZI014_PPO = 1 [Aircraft] or ZI014_PPO = 2 [Aluminum] or ZI014_PPO = 3 [Ammunition] or ZI014_PPO = 4 [Asphalt] or ZI014_PPO = 5 [Motor Vehicle] or ZI014_PPO = 13 [Brick] or ZI014_PPO = 15 [Cement] or ZI014_PPO = 16 [Chemical] or ZI014_PPO = 18 [Coal] or ZI014_PPO = 20 [Coffee] or ZI014_PPO = 21 [Coke] or ZI014_PPO = 23 [Concrete] or ZI014_PPO = 25 [Consumer Goods] or ZI014_PPO = 26 [Copper] or ZI014_PPO = 28 [Cotton] or ZI014_PPO = 32 [Desalinated Water] or ZI014_PPO = 37 [Electric Power] or ZI014_PPO = 38 [Explosive] or ZI014_PPO = 39 [Fish] or ZI014_PPO = 41 [Food] or ZI014_PPO = 43 [Frozen Water] or ZI014_PPO = 44 [Fruit] or ZI014_PPO = 45 [Gas] or ZI014_PPO = 46 [Petrol] or ZI014_PPO = 47 [Glass] or ZI014_PPO = 48 [Gold] or ZI014_PPO = 57 [Ice] or ZI014_PPO = 58 [Iron] or ZI014_PPO = 59 [Lead] or ZI014_PPO = 60 [Lime] or ZI014_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014_PPO = 63 [Lumber] or ZI014_PPO = 65 [Manganese] or ZI014_PPO = 69 [Metal] or ZI014_PPO = 70 [Milk] or ZI014_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014_PPO = 80 [Paper] or ZI014_PPO = 83 [Petroleum] or ZI014_PPO = 84 [Plastic] or ZI014_PPO = 87 [Prestressed Concrete] or ZI014_PPO = 90 [Radioactive Material] or ZI014_PPO = 92 [Rice] or ZI014_PPO = 94 [Rubber] or ZI014_PPO = 95 [Salt] or ZI014_PPO = 101 [Sewage] or ZI014_PPO = 105 [Silver] or ZI014_PPO = 106 [Snow] or ZI014_PPO = 109 [Steel] or ZI014_PPO = 111 [Sugar] or ZI014_PPO = 114 [Textile] or ZI014_PPO = 117 [Tobacco] or ZI014_PPO = 120 [Uranium] or ZI014_PPO = 121 [Vegetation Product] or ZI014_PPO = 122 [Water] or ZI014_PPO = 123 [Wine] or ZI014_PPO = 126 [Zinc] or ZI014_PPO = 136 [Biochemical] or ZI014_PPO = 137 [Petrochemical] or ZI014_PPO = 146 [Heating Steam and/or Water] or ZI014_PPO = 147 [Electronic Equipment] or ZI014_PPO = 148 [Electrical Equipment] or ZI014_PPO = 150 [Fertilizer] or ZI014_PPO = 154 [Munitions] or ZI014_PPO = 155 [Olive Oil] or ZI014_PPO = 156 [Whale Products] or ZI014_PPO = 157 [Petroleum and/or Natural Gas] or ZI014_PPO = 160 [Milled Grain] or ZI014_PPO = 165 [Clothing] or ZI014_PPO = 192 [Petroleum Lubricant] or ZI014_PPO = 214 [Biodiesel] or ZI014_PPO = 279 [Fluorine] or ZI014_PPO = 325 [Phosphorus] or ZI014_PPO = 435 [Nuclear Fuel])                             |
| <b>Label String:</b>                 | [ZI014_PPO] "mill (construction)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Facility (AL010) (continued)**

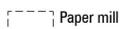
Surface

**Label Description:** Facility / mill / construction / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])  
**Label String:** "Mill (construction)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Facility / mill / not usable / known (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])  
**Label String:** [ZI014\_PPO] "mill (not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / mill / not usable / unknown(surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])  
**Label String:** "Mill (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                 |                                  |                                    |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Facility                                                                   |                                  |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |                                    |

**Facility (AL010) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| R003282  | Facility / plant (surface) | (FFN = 99 [Manufacturing] or FFN = 100 [Food Product Manufacture] or FFN = 101 [Food Processing] or FFN = 102 [Meat Processing] or FFN = 103 [Seafood Processing] or FFN = 104 [Fruit and/or Vegetable Processing] or FFN = 105 [Oil-mill] or FFN = 106 [Dairying] or FFN = 110 [Baking] or FFN = 111 [Sugar Manufacture] or FFN = 112 [Sugar Milling] or FFN = 114 [Confection Manufacture] or FFN = 115 [Pasta Manufacture] or FFN = 116 [Prepared Meal Manufacture] or FFN = 118 [Beverage Manufacture] or FFN = 119 [Animal Feed Manufacture] or FFN = 120 [Ice Manufacture] or FFN = 121 [Spirit Distillery] or FFN = 122 [Winery] or FFN = 123 [Brewing] or FFN = 124 [Soft Drink Manufacture] or FFN = 125 [Tobacco Product Manufacture] or FFN = 129 [Textile, Apparel and Leather Manufacture] or FFN = 130 [Textile Manufacture] or FFN = 140 [Apparel Manufacture] or FFN = 150 [Leather Product Manufacture] or FFN = 155 [Footwear Manufacturing] or FFN = 160 [Wood-based Manufacturing] or FFN = 165 [Wooden Construction Product Manufacture] or FFN = 181 [Printing] or FFN = 190 [Petroleum and Coal Products Manufacturing] or FFN = 191 [Coke Manufacture] or FFN = 210 [Medicinal Product Manufacture] or FFN = 221 [Rubber Product Manufacture] or FFN = 225 [Plastic Product Manufacture] or FFN = 230 [Nonmetallic Mineral Product Manufacturing] or FFN = 231 [Glass Product Manufacture] or FFN = 232 [Refractory Product Manufacture] or FFN = 233 [Clay Product Manufacture] or FFN = 234 [Ceramic Product Manufacture] or FFN = 236 [Cement Product Manufacture] or FFN = 237 [Stone Product Manufacture] or FFN = 240 [Primary Metal Manufacturing] or FFN = 243 [Foundry] or FFN = 250 [Metal Product Manufacturing] or FFN = 251 [Structural Metal Product Manufacture] or FFN = 255 [Munitions Manufacture] or FFN = 257 [Fabricated Metal Product Manufacture] or FFN = 260 [Electronic Equipment Manufacture] or FFN = 270 [Electrical Equipment Manufacture] or FFN = 280 [Machinery Manufacture] or FFN = 289 [Transportation Equipment Manufacturing] or FFN = 290 [Motor Vehicle Manufacture] or FFN = 301 [Ship Construction] or FFN = 304 [Railway Vehicle Manufacture] or FFN = 305 [Aircraft Manufacture] or FFN = 306 [Military Vehicle Manufacture] or FFN = 310 [Furniture Manufacture] or FFN = 320 [Miscellaneous Manufacturing] or FFN = 321 [Jewellery Manufacture] or FFN = 322 [Musical Instrument Manufacture] or FFN = 323 [Sports Goods Manufacture] or FFN = 324 [Game and/or Toy Manufacture] or FFN = 325 [Medical and/or Dental Equipment Manufacture] or FFN = 370 [Sewerage] or FFN = 385 [Materials Recovery]) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Label Description:</b>            | Facility / plant / usable / known (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014_PPO = 1 [Aircraft] or ZI014_PPO = 2 [Aluminum] or ZI014_PPO = 3 [Ammunition] or ZI014_PPO = 4 [Asphalt] or ZI014_PPO = 5 [Motor Vehicle] or ZI014_PPO = 13 [Brick] or ZI014_PPO = 15 [Cement] or ZI014_PPO = 16 [Chemical] or ZI014_PPO = 18 [Coal] or ZI014_PPO = 20 [Coffee] or ZI014_PPO = 21 [Coke] or ZI014_PPO = 23 [Concrete] or ZI014_PPO = 25 [Consumer Goods] or ZI014_PPO = 26 [Copper] or ZI014_PPO = 28 [Cotton] or ZI014_PPO = 32 [Desalinated Water] or ZI014_PPO = 37 [Electric Power] or ZI014_PPO = 38 [Explosive] or ZI014_PPO = 39 [Fish] or ZI014_PPO = 41 [Food] or ZI014_PPO = 43 [Frozen Water] or ZI014_PPO = 44 [Fruit] or ZI014_PPO = 45 [Gas] or ZI014_PPO = 46 [Petrol] or ZI014_PPO = 47 [Glass] or ZI014_PPO = 48 [Gold] or ZI014_PPO = 57 [Ice] or ZI014_PPO = 58 [Iron] or ZI014_PPO = 59 [Lead] or ZI014_PPO = 60 [Lime] or ZI014_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014_PPO = 63 [Lumber] or ZI014_PPO = 65 [Manganese] or ZI014_PPO = 69 [Metal] or ZI014_PPO = 70 [Milk] or ZI014_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014_PPO = 80 [Paper] or ZI014_PPO = 83 [Petroleum] or ZI014_PPO = 84 [Plastic] or ZI014_PPO = 87 [Prestressed Concrete] or ZI014_PPO = 90 [Radioactive Material] or ZI014_PPO = 92 [Rice] or ZI014_PPO = 94 [Rubber] or ZI014_PPO = 95 [Salt] or ZI014_PPO = 101 [Sewage] or ZI014_PPO = 105 [Silver] or ZI014_PPO = 106 [Snow] or ZI014_PPO = 109 [Steel] or ZI014_PPO = 111 [Sugar] or ZI014_PPO = 114 [Textile] or ZI014_PPO = 117 [Tobacco] or ZI014_PPO = 120 [Uranium] or ZI014_PPO = 121 [Vegetation Product] or ZI014_PPO = 122 [Water] or ZI014_PPO = 123 [Wine] or ZI014_PPO = 126 [Zinc] or ZI014_PPO = 136 [Biochemical] or ZI014_PPO = 137 [Petrochemical] or ZI014_PPO = 146 [Heating Steam and/or Water] or ZI014_PPO = 147 [Electronic Equipment] or ZI014_PPO = 148 [Electrical Equipment] or ZI014_PPO = 150 [Fertilizer] or ZI014_PPO = 154 [Munitions] or ZI014_PPO = 155 [Olive Oil] or ZI014_PPO = 156 [Whale Products] or ZI014_PPO = 157 [Petroleum and/or Natural Gas] or ZI014_PPO = 160 [Milled Grain] or ZI014_PPO = 165 [Clothing] or ZI014_PPO = 192 [Petroleum Lubricant] or ZI014_PPO = 214 [Biodiesel] or ZI014_PPO = 279 [Fluorine] or ZI014_PPO = 325 [Phosphorus] or ZI014_PPO = 435 [Nuclear Fuel]) |
| <b>Label String:</b>                 | [ZI014_PPO] "plant"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Label Description:</b>            | Facility / plant / usable / unknown (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014_PPO = 73 [No Product] or ZI014_PPO = 999 [Other] or ZI014_PPO = -999999 [No Information])                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Label String:</b>                 | "Plant"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Label Description:</b>            | Facility / plant / construction / known (surface)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Facility (AL010) (continued)

## Surface

**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])

**Label String:** [ZI014\_PPO] "plant (construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / plant / construction / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Plant (construction)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Facility / plant / not usable / known (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])

**Label String:** [PPO] "plant (not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Facility (AL010) (continued)**

Surface

**Label Description:** Facility / plant / not usable / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Plant (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Plant



Concrete plant

**Symbol Information**

|                                                                                   |                                                                                                                 |                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Black_Facility                                                                   |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                        |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)     |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                   | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                   |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003283  | Facility / communications (surface) | (FFN = 601 [Radio Broadcasting] or FFN = 604 [Television Broadcasting] or FFN = 610 [Telecommunications] or FFN = 612 [Retail Telecommunications] or FFN = 614 [Wired Telecommunications] or FFN = 615 [Main Telephone Exchange] or FFN = 616 [Branch Telephone Exchange] or FFN = 617 [Wired Repeater] or FFN = 620 [Wireless Telecommunications] or FFN = 621 [Mobile Phone Service] or FFN = 622 [Wireless Repeater] or FFN = 625 [Satellite Telecommunications] or FFN = 626 [Satellite Ground Control]) |

**Label Information**

**Label Description:** Facility / communications / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])

**Label String:** "Communication facility"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

---

**Label Description:** Facility / communications / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "Communication facility (construction)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

---

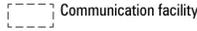
**Label Description:** Facility / communications / not usable (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "Communication facility (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Facility (AL010) (continued)**

Surface

**Symbol Sample**



Communication facility

| Symbol Information                                                                                             |                                                                                                                 |                                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Facility                                                                   |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     | <b>Element Reference:</b> L00210                                                                                | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria                                                                                     |
|----------|----------------------------|----------------------------------------------------------------------------------------------|
| R003284  | Facility / other (surface) | (FFN = 725 [Nuclear Research Centre] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

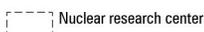
|                                      |                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Facility / nuclear research centre / usable (surface)                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (FFN = 725 [Nuclear Research Centre]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])                                                         |
| <b>Label String:</b>                 | "Nuclear research center"                                                                                                                              |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Facility / nuclear research center / construction (surface)                                                                                            |
| <b>Additional Labeling Criteria:</b> | (FFN = 725 [Nuclear Research Centre]) and (PCF = 1 [Construction])                                                                                     |
| <b>Label String:</b>                 | "Nuclear research center (construction)"                                                                                                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Facility / nuclear research center / not usable (surface)                                                                                              |
| <b>Additional Labeling Criteria:</b> | (FFN = 725 [Nuclear Research Centre]) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                 |
| <b>Label String:</b>                 | "Nuclear research center (not usable)"                                                                                                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Facility / other / usable (surface)                                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (FFN = 999 [Other] or FFN = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])                                         |
| <b>Label String:</b>                 | "Facility"                                                                                                                                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Facility / other / construction (surface)                                                                                                              |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                                                                               |
| <b>Label String:</b>                 | "Facility (construction)"                                                                                                                              |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Facility / other / not usable (surface)                                                                                                                |
| <b>Additional Labeling Criteria:</b> | (FFN = 999 [Other] or FFN = -999999 [No Information]) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |

**Facility (AL010) (continued)**

Surface

**Label String:** "Facility (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Point**

| Symbol Information                                                                                             |                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Facility                                                                             |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                         |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           |
| <b>Element Reference:</b> P00006                                                                               |                                                                                                                           |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                           |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                              |
|----------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003286  | Facility / usable / refinery (point) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 91 [Gas Oil Separation] or FFN = 95 [Ore Dressing] or FFN = 113 [Sugar Refining] or FFN = 192 [Petroleum Refining] or FFN = 195 [Chemical Manufacture] or FFN = 242 [Metal Refining]) |

**Label Information**

**Label Description:** Facility / refinery / known (point)  
**Additional Labeling Criteria:** (ZI014\_PPO = 1 [Aircraft] or ZI014\_PPO = 2 [Aluminum] or ZI014\_PPO = 3 [Ammunition] or ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 5 [Motor Vehicle] or ZI014\_PPO = 13 [Brick] or ZI014\_PPO = 15 [Cement] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 18 [Coal] or ZI014\_PPO = 20 [Coffee] or ZI014\_PPO = 21 [Coke] or ZI014\_PPO = 23 [Concrete] or ZI014\_PPO = 25 [Consumer Goods] or ZI014\_PPO = 26 [Copper] or ZI014\_PPO = 28 [Cotton] or ZI014\_PPO = 32 [Desalinated Water] or ZI014\_PPO = 37 [Electric Power] or ZI014\_PPO = 38 [Explosive] or ZI014\_PPO = 39 [Fish] or ZI014\_PPO = 41 [Food] or ZI014\_PPO = 43 [Frozen Water] or ZI014\_PPO = 44 [Fruit] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 47 [Glass] or ZI014\_PPO = 48 [Gold] or ZI014\_PPO = 57 [Ice] or ZI014\_PPO = 58 [Iron] or ZI014\_PPO = 59 [Lead] or ZI014\_PPO = 60 [Lime] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 63 [Lumber] or ZI014\_PPO = 65 [Manganese] or ZI014\_PPO = 69 [Metal] or ZI014\_PPO = 70 [Milk] or ZI014\_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014\_PPO = 80 [Paper] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 87 [Prestressed Concrete] or ZI014\_PPO = 90 [Radioactive Material] or ZI014\_PPO = 92 [Rice] or ZI014\_PPO = 94 [Rubber] or ZI014\_PPO = 95 [Salt] or ZI014\_PPO = 101 [Sewage] or ZI014\_PPO = 105 [Silver] or ZI014\_PPO = 106 [Snow] or ZI014\_PPO = 109 [Steel] or ZI014\_PPO = 111 [Sugar] or ZI014\_PPO = 114 [Textile] or ZI014\_PPO = 117 [Tobacco] or ZI014\_PPO = 120 [Uranium] or ZI014\_PPO = 121 [Vegetation Product] or ZI014\_PPO = 122 [Water] or ZI014\_PPO = 123 [Wine] or ZI014\_PPO = 126 [Zinc] or ZI014\_PPO = 136 [Biochemical] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 146 [Heating Steam and/or Water] or ZI014\_PPO = 147 [Electronic Equipment] or ZI014\_PPO = 148 [Electrical Equipment] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 154 [Munitions] or ZI014\_PPO = 155 [Olive Oil] or ZI014\_PPO = 156 [Whale Products] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 160 [Milled Grain] or ZI014\_PPO = 165 [Clothing] or ZI014\_PPO = 192 [Petroleum Lubricant] or ZI014\_PPO = 214 [Biodiesel] or ZI014\_PPO = 279 [Fluorine] or ZI014\_PPO = 325 [Phosphorus] or ZI014\_PPO = 435 [Nuclear Fuel])

**Label String:** [ZI014\_PPO] "refinery"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Facility / refinery / unknown (point)  
**Additional Labeling Criteria:** (ZI014\_PPO = 73 [No Product] or ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])



**Facility (AL010) (continued)**

**Point**

1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Mill

■ Lumber mill

| Symbol Information                                                                                             |                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Facility                                                                             |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                           |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003288  | Facility / usable / plant (point) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 99 [Manufacturing] or FFN = 100 [Food Product Manufacture] or FFN = 101 [Food Processing] or FFN = 102 [Meat Processing] or FFN = 103 [Seafood Processing] or FFN = 104 [Fruit and/or Vegetable Processing] or FFN = 105 [Oil-mill] or FFN = 106 [Dairying] or FFN = 110 [Baking] or FFN = 111 [Sugar Manufacture] or FFN = 112 [Sugar Milling] or FFN = 114 [Confection Manufacture] or FFN = 115 [Pasta Manufacture] or FFN = 116 [Prepared Meal Manufacture] or FFN = 118 [Beverage Manufacture] or FFN = 119 [Animal Feed Manufacture] or FFN = 120 [Ice Manufacture] or FFN = 121 [Spirit Distillery] or FFN = 122 [Winery] or FFN = 123 [Brewing] or FFN = 124 [Soft Drink Manufacture] or FFN = 125 [Tobacco Product Manufacture] or FFN = 129 [Textile, Apparel and Leather Manufacture] or FFN = 130 [Textile Manufacture] or FFN = 140 [Apparel Manufacture] or FFN = 150 [Leather Product Manufacture] or FFN = 155 [Footwear Manufacturing] or FFN = 160 [Wood-based Manufacturing] or FFN = 165 [Wooden Construction Product Manufacture] or FFN = 181 [Printing] or FFN = 190 [Petroleum and Coal Products Manufacturing] or FFN = 191 [Coke Manufacture] or FFN = 210 [Medicinal Product Manufacture] or FFN = 221 [Rubber Product Manufacture] or FFN = 225 [Plastic Product Manufacture] or FFN = 230 [Nonmetallic Mineral Product Manufacturing] or FFN = 231 [Glass Product Manufacture] or FFN = 232 [Refractory Product Manufacture] or FFN = 233 [Clay Product Manufacture] or FFN = 234 [Ceramic Product Manufacture] or FFN = 236 [Cement Product Manufacture] or FFN = 237 [Stone Product Manufacture] or FFN = 240 [Primary Metal Manufacturing] or FFN = 243 [Foundry] or FFN = 250 [Metal Product Manufacturing] or FFN = 251 [Structural Metal Product Manufacture] or FFN = 255 [Munitions Manufacture] or FFN = 257 [Fabricated Metal Product Manufacture] or FFN = 260 [Electronic Equipment Manufacture] or FFN = 270 [Electrical Equipment Manufacture] or FFN = 280 [Machinery Manufacture] or FFN = 289 [Transportation Equipment Manufacturing] or FFN = 290 [Motor Vehicle Manufacture] or FFN = 301 [Ship Construction] or FFN = 304 [Railway Vehicle Manufacture] or FFN = 305 [Aircraft Manufacture] or FFN = 306 [Military Vehicle Manufacture] or FFN = 310 [Furniture Manufacture] or FFN = 320 [Miscellaneous Manufacturing] or FFN = 321 [Jewellery Manufacture] or FFN = 322 [Musical Instrument Manufacture] or FFN = 323 [Sports Goods Manufacture] or FFN = 324 [Game and/or Toy Manufacture] or FFN = 325 [Medical and/or Dental Equipment Manufacture] or FFN = 370 [Sewerage] or FFN = 385 [Materials Recovery]) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Facility / plant / known (point)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (ZI014_PPO = 1 [Aircraft] or ZI014_PPO = 2 [Aluminum] or ZI014_PPO = 3 [Ammunition] or ZI014_PPO = 4 [Asphalt] or ZI014_PPO = 5 [Motor Vehicle] or ZI014_PPO = 13 [Brick] or ZI014_PPO = 15 [Cement] or ZI014_PPO = 16 [Chemical] or ZI014_PPO = 18 [Coal] or ZI014_PPO = 20 [Coffee] or ZI014_PPO = 21 [Coke] or ZI014_PPO = 23 [Concrete] or ZI014_PPO = 25 [Consumer Goods] or ZI014_PPO = 26 [Copper] or ZI014_PPO = 28 [Cotton] or ZI014_PPO = 32 [Desalinated Water] or ZI014_PPO = 37 [Electric Power] or ZI014_PPO = 38 [Explosive] or ZI014_PPO = 39 [Fish] or ZI014_PPO = 41 [Food] or ZI014_PPO = 43 [Frozen Water] or ZI014_PPO = 44 [Fruit] or ZI014_PPO = 45 [Gas] or ZI014_PPO = 46 [Petrol] or ZI014_PPO = 47 [Glass] or ZI014_PPO = 48 [Gold] or ZI014_PPO = 57 [Ice] or ZI014_PPO = 58 [Iron] or ZI014_PPO = 59 [Lead] or ZI014_PPO = 60 [Lime] or ZI014_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014_PPO = 63 [Lumber] or ZI014_PPO = 65 [Manganese] or ZI014_PPO = 69 [Metal] or ZI014_PPO = 70 [Milk] or ZI014_PPO = 74 [Non Solid Hydrocarbon Fuel] or ZI014_PPO = 80 [Paper] or ZI014_PPO = 83 [Petroleum] or ZI014_PPO = 84 [Plastic] or ZI014_PPO = 87 [Prestressed |



**Facility (AL010) (continued)**

Point

**Symbol Sample**

■ Communication facility

| Symbol Information                                                                                             |                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Facility                                                                             |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                               |                                  |

| Symbol Portrayal Rules |                                   |                                                                                                                                                       |
|------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                       | Criteria                                                                                                                                              |
| R003290                | Facility / usable / other (point) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (FFN = 725 [Nuclear Research Centre] or FFN = 999 [Other] or FFN = -999999 [No Information]) |

**Label Information**

|                                      |                                                       |
|--------------------------------------|-------------------------------------------------------|
| <b>Label Description:</b>            | Facility / nuclear research centre (point)            |
| <b>Additional Labeling Criteria:</b> | (FFN = 725 [Nuclear Research Centre])                 |
| <b>Label String:</b>                 | "Nuclear research center"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)           |
| <b>Label Description:</b>            | Facility / other (point)                              |
| <b>Additional Labeling Criteria:</b> | (FFN = 999 [Other] or FFN = -999999 [No Information]) |
| <b>Label String:</b>                 | "Facility"                                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)           |

**Symbol Sample**

■ Facility

■ Nuclear research center

**Fairground (AK090)**

Surface

| Symbol Information                                                                                               |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Fairground                                                                 |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |

**Fairground (AK090) (continued)**

Surface

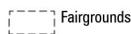
**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria        |
|----------|---------------------------------|-----------------|
| R003057  | Fairground / standard (surface) | (ARA >= 390625) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Fairground / all (surface)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Fairgrounds"                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                                                                                          |                                  |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Fairground                                                                                          |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                                          | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                              |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                               |
|----------|--------------------------------------------|----------------------------------------|
| R003510  | Fairground / small area landmark (surface) | (ARA < 390625) and (LMC = 1001 [True]) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Fairground / all (surface)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Fairgrounds"                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**

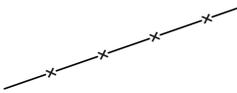


**Fence (AL070)**

Curve

**Fence (AL070) (continued)**

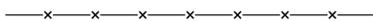
Curve

| Symbol Information                                                                                                                                                                     |                                                                                                                                                                                                                                                                               |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                                       | <b>Symbol Graphic Name:</b> LN_Black_Fence                                                                                                                                                                                                                                    |                                  |
|                                                                                                                                                                                        | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                              |                                  |
|                                                                                                                                                                                        | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                         |                                  |
| <b>Element Name:</b> Black_Fence                                                                                                                                                       |                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00062 |
| <b>Element Type:</b> Line - Complex                                                                                                                                                    |                                                                                                                                                                                                                                                                               |                                  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.0mm dash, 1.3mm gap) with 'X' (0.2mm wt, 1.3mm long)                                                                        |                                                                                                                                                                                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                                                                                              | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-5mmLenDash-1.3mmGapLine<br><b>Repeating Point:</b> Black_0.2mm-1.3mmLenX<br><b>Repeating Point Interval:</b> Centered in the space between dashes<br><b>Note:</b> The black X is centered in the gap between the dashes |                                  |
| <b>Element Name:</b> Black_0.15mm-5mmLenDash-1.3mmGapLine                                                                                                                              |                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00239 |
| <b>Element Type:</b> Line - Styled                                                                                                                                                     |                                                                                                                                                                                                                                                                               |                                  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.0mm dash, 1.3mm gap)                                                                                                        |                                                                                                                                                                                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 5.0mm <b>Dash Spacing:</b> 1.3mm                                                                                                                                                                          |                                  |
| <b>Element Name:</b> Black_0.2mm-1.3mmLenX                                                                                                                                             |                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> P00046 |
| <b>Element Type:</b> Point - Simple                                                                                                                                                    |                                                                                                                                                                                                                                                                               |                                  |
| <b>Description:</b> Two Black lines (each length 1.3mm with a 0.2mm lineweight) intersect at a 45 degree angle to form an "X". Intersection is at the center of the two line segments. |                                                                                                                                                                                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                                                                                              | <b>Parameters:</b><br><b>Orientation:</b> Center of intersection                                                                                                                                                                                                              |                                  |

**Symbol Portrayal Rules**

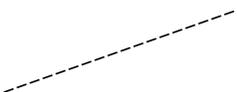
| Rule Ref | Description         | Criteria                              |
|----------|---------------------|---------------------------------------|
| R003084  | Fence / all (curve) | (LZN >= 3000) and (LMC = 1001 [True]) |

**Symbol Sample**



**Ferry\_Crossing (AQ070)**

Curve

| Symbol Information                                                                  |                                                                                                       |                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_FerryCrossing                                                    |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine                            |                                                                                                       | <b>Element Reference:</b> L00031 |
| <b>Element Type:</b> Line - Styled                                                  |                                                                                                       |                                  |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)       |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm   |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria     |
|----------|-----------------------------------|--------------|
| R003137  | Ferry Crossing / standard (curve) | (LZN >= 125) |

**Label Information**

**Ferry\_Crossing (AQ070) (continued)**

Curve

**Label Description:** Ferry Crossing / known (curve)  
**Additional Labeling Criteria:** (TRS = 9 [Pedestrian] or TRS = 12 [Railway] or TRS = 13 [Road])

**Label String:** [TRS] "ferry"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Ferry Crossing / unknown (curve)  
**Additional Labeling Criteria:** (TRS = 999 [Other] or TRS = -999999 [No Information])

**Label String:** "Ferry"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

----- Ferry ----- Pedestrian ferry -----

**Symbol Information**

|                                   |                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------|
| Symbol Graphic<br><br>[TRS] ferry | <b>Symbol Graphic Name:</b> LN_FerryCrossing                                          |
|                                   | <b>Apply Label to Symbol:</b> Yes                                                     |
|                                   | <b>Symbol Placement Instructions:</b> Dynamic text label only. No Graphic Parameters. |
| LINE LABEL ONLY                   |                                                                                       |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria    |
|----------|-------------------------------------|-------------|
| R003531  | Ferry Crossing / small line (curve) | (LZN < 125) |

**Label Information**

**Label Description:** Ferry Crossing / known (curve)  
**Additional Labeling Criteria:** (TRS = 9 [Pedestrian] or TRS = 12 [Railway] or TRS = 13 [Road])

**Label String:** [TRS] "ferry"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Ferry Crossing / unknown (curve)  
**Additional Labeling Criteria:** (TRS = 999 [Other] or TRS = -999999 [No Information])

**Label String:** "Ferry"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

Ferry Road ferry

**Ferry\_Station (AQ080)**

Surface

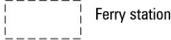
**Ferry\_Station (AQ080) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_FerryStation                                                               |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                               |          |
|------------------------|-------------------------------|----------|
| Rule Ref               | Description                   | Criteria |
| R003285                | Ferry Station / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Ferry Station / all (surface)               |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Ferry station"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

Point

| Symbol Information                                                                                           |                                                                       |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_FerryStation                     |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                    |                                  |
|                                                                                                              | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                              | <b>Note:</b> Square is filled                                         |                                  |

| Symbol Portrayal Rules |                                         |            |
|------------------------|-----------------------------------------|------------|
| Rule Ref               | Description                             | Criteria   |
| R003525                | Ferry Station / non-obstruction (point) | (HGT < 46) |

| Label Information                    |                             |
|--------------------------------------|-----------------------------|
| <b>Label Description:</b>            | Ferry Station / all (point) |
| <b>Additional Labeling Criteria:</b> | N/A                         |
| <b>Label String:</b>                 | "Ferry station"             |
| <b>Characteristics:</b>              | 1                           |

**Ferry\_Station (AQ080) (continued)**

Point

1 (Black, Condensed, 6 pt, Mixed case)

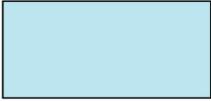
**Symbol Sample**

■ Ferry station

**Fish\_Farm\_Facility (BH051)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                                                                |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_FishFarm                                                                                                                   |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                  |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                        |                                                                                                                                                                | <b>Element Reference:</b> A00007 |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                            |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan-31                                                                                    | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                                | <b>Screen Angle:</b> 45 degrees                                                                                                                                |                                  |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                      |                                                                                                                                                                | <b>Element Reference:</b> L00007 |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                          |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                                                                       |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria |
|----------|------------------------------------|----------|
| R003184  | Fish Farm Facility / all (surface) | ALL      |

**Label Information**

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <b>Label Description:</b>            | Fish Farm / all (surface)                           |
| <b>Additional Labeling Criteria:</b> | N/A                                                 |
| <b>Label String:</b>                 | "Fish farm"                                         |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**

 Fish farm

Point

**Symbol Information**

|                                                                                                                  |                                                                       |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_FishFarm                          |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |  |

**Fish\_Farm\_Facility (BH051) (continued)**

Point

|                                                             |                                                               |                                     |
|-------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_0.8mmFilledSquare                 | <b>Element Reference:</b> P00007                              | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan filled square with all sides 0.8mm |                                                               |                                     |
| <b>Color Token:</b> Cyan                                    | <b>Parameters:</b><br>Length: 0.8mm<br>Note: Square is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria |
|----------|----------------------------------|----------|
| R003530  | Fish Farm Facility / all (point) | ALL      |

**Label Information**

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <b>Label Description:</b>            | Fish Farm / all (point)                             |
| <b>Additional Labeling Criteria:</b> | N/A                                                 |
| <b>Label String:</b>                 | "Fish farm"                                         |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



**Flare\_Pipe (AF070)**

Point

**Symbol Information**

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_FlarePipe              |
|                               | <b>Apply Label to Symbol:</b> No                            |
|                               | <b>Symbol Placement Instructions:</b> Origin: Center of dot |

|                                      |                                                                                                       |                                    |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Flarepipe | <b>Element Reference:</b> P00145                                                                      | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black flarepipe  |                                                                                                       |                                    |
| <b>Color Token:</b> Black            | <b>Parameters:</b><br>Note: See Element: Black_Flarepipe in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                      |
|----------|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| R003041  | Flare Pipe / on shore / non-obstruction (point) | (HGT < 46) and (SRL = 2 [Inland] or SRL = 3 [At Shoreline] or SRL = -999999 [No Information]) |

**Symbol Sample**



**Flare\_Pipe (AF070) (continued)**

Point

| Symbol Information                                                                                         |                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_FlarePipe_Offshore                                  |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                        |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of dot                              |                                  |
| <b>Element Name:</b> Black_Offshore_VO                                                                     |                                                                                          | <b>Element Reference:</b> P00161 |
| <b>Element Type:</b> Point - Shape                                                                         |                                                                                          |                                  |
| <b>Description:</b> Black vertical obstruction                                                             |                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                       |                                  |
|                                                                                                            | <b>Note:</b> See Element: Black_Offshore_VO in Annex H for detailed drawing instructions |                                  |

| Symbol Portrayal Rules |                                                 |                                     |
|------------------------|-------------------------------------------------|-------------------------------------|
| Rule Ref               | Description                                     | Criteria                            |
| R003526                | Flare Pipe / offshore / non-obstruction (point) | (HGT < 46) and (SRL = 1 [Offshore]) |

| Label Information                    |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Flare Pipe / non-obstruction (point)                                                            |
| <b>Additional Labeling Criteria:</b> | HGT value is converted from meters to feet.                                                     |
| <b>Label String:</b>                 | "Flare pipe"<br>"([HGT])"                                                                       |
| <b>Characteristics:</b>              | 1,22,22,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case) |

**Symbol Sample**



**Flood\_Control\_Structure (BI020)**

Point

| Symbol Information                                                                                           |                                                                                                                  |                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_FloodControlStructure                                                       |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of line |                                  |
| <b>Element Name:</b> Black_0.35mm-1.5LenLine                                                                 |                                                                                                                  | <b>Element Reference:</b> P00051 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                                                                  |                                  |
| <b>Description:</b> Black 1.5mm length line with a 0.35mm lineweight                                         |                                                                                                                  |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                                                               |                                  |
|                                                                                                              | <b>Length:</b> 1.5mm                                                                                             | <b>Lineweight:</b> 0.35mm        |

| Symbol Portrayal Rules |                                       |          |
|------------------------|---------------------------------------|----------|
| Rule Ref               | Description                           | Criteria |
| R003828                | Flood Control Structure / all (point) | ALL      |

| Label Information                    |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| <b>Label Description:</b>            | Flood Control Structure / gate (point)                                    |
| <b>Additional Labeling Criteria:</b> | (FCS = 1 [Dyke Gate] or FCS = 2 [Emergency Gate] or FCS = 3 [Flood Gate]) |

**Flood\_Control\_Structure (BI020) (continued)**

Point

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label String:</b>                 | "Gate"                                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |
| <b>Label Description:</b>            | Flood Control Structure / barrage (point)              |
| <b>Additional Labeling Criteria:</b> | (FCS = 4 [Fixed Barrage] or FCS = 5 [Movable Barrage]) |
| <b>Label String:</b>                 | "Barrage"                                              |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |

**Symbol Sample**

|        |           |
|--------|-----------|
| _ Gate | _ Barrage |
|--------|-----------|

**Ford (BH070)**

Curve

| Symbol Information                                                                                                                                                                                    |                                                                                                                                                                                         |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                      | <b>Symbol Graphic Name:</b> LN_Black_Ford                                                                                                                                               |                                     |
|                                                                                                                                                                                                       | <b>Apply Label to Symbol:</b> No                                                                                                                                                        |                                     |
|                                                                                                                                                                                                       | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Point symbols are added at each end.                                              |                                     |
| <b>Element Name:</b> Black_Ford                                                                                                                                                                       | <b>Element Reference:</b> L00197                                                                                                                                                        | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with cyan "V"s attached at the start and end of the line. The "V"s apex point inward towards the related hydrographic feature |                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine<br><b>Fix at Start:</b> Cyan_0.3mm-0.9mmLenV<br><b>Fix at End:</b> Cyan_0.3mm-0.9mmLenV                    |                                     |
| <b>Element Name:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine                                                                                                                                              | <b>Element Reference:</b> L00031                                                                                                                                                        | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)                                                                                                                         |                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm                                                                                     |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                                                                                                             | <b>Element Reference:</b> P00208                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle                                                                                  |                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Length:</b> 0.9mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                                                                                                             | <b>Element Reference:</b> P00208                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle                                                                                  |                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Cyan                                                                                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Length:</b> 0.9mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description        | Criteria |
|----------|--------------------|----------|
| R003185  | Ford / all (curve) | ALL      |

**Ford (BH070) (continued)**

Curve

Symbol Sample



Point

Symbol Information

|                                                                                                                                                                                        |                                                                                                                   |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                                                                         | <b>Symbol Graphic Name:</b> PT_Cyan_Ford                                                                          |                                  |
|                                                                                                                                                                                        | <b>Apply Label to Symbol:</b> No                                                                                  |                                  |
|                                                                                                                                                                                        | <b>Symbol Placement Instructions:</b> Origin: Center of intersection                                              |                                  |
| <b>Element Name:</b> Cyan_0.3mm-0.7mmLenX                                                                                                                                              |                                                                                                                   | <b>Element Reference:</b> P00062 |
| <b>Element Type:</b> Point - Simple                                                                                                                                                    |                                                                                                                   |                                  |
| <b>Description:</b> Two Cyan lines (each length 0.7mm with a 0.3mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments. |                                                                                                                   |                                  |
| <b>Color Token:</b> Cyan                                                                                                                                                               | <b>Parameters:</b><br><b>Length:</b> 0.7mm <b>Lineweight:</b> 0.3mm<br><b>Orientation:</b> Center of intersection |                                  |

Symbol Portrayal Rules

| Rule Ref | Description        | Criteria |
|----------|--------------------|----------|
| R003186  | Ford / all (point) | ALL      |

Symbol Sample



**Foreshore (BA023 - Maritime Data Store)**

Surface

Symbol Information

|                                                                                                                  |                                                                                                                                                                                                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_BlackCyan_Foreshore                                                                                                                                                                                                                                   |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. NOTE: This symbol is shown in conjunction with the Tidal Water symbol and should NOT mask out the Tidal Water symbol. |                                  |
| <b>Element Name:</b> CoversUncovers-Fill                                                                         |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> A00049 |
| <b>Element Type:</b> Area - Fill                                                                                 |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Description:</b> Cyan-31 ScreenFill (Area Fill) coincident with Black-12 ScreenFill-15degree (Area Fill)      |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Cyan-31_Black-12                                                                             | <b>Parameters:</b><br><b>Note:</b> The two area fills are combined as one symbol                                                                                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_Dotted-Line                                                                           |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00144 |
| <b>Element Type:</b> Line - Styled                                                                               |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Description:</b> Black 0.25mm diameter filled dots repeating with 0.75mm spacing                              |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Repeating Point:</b> Black_0.25mmFilledDot<br><b>Repeating Point Interval:</b> 0.75mm                                                                                                                                                                       |                                  |
| <b>Element Name:</b> Black_0.25mmFilledDot                                                                       |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00047 |
| <b>Element Type:</b> Point - Simple                                                                              |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Description:</b> Black 0.25mm diameter filled circle                                                          |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Diameter:</b> 0.25mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                       |                                  |

**Foreshore (BA023 - Maritime Data Store) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria |
|----------|---------------------------|----------|
| R003666  | Foreshore / all (surface) | ALL      |

**Symbol Sample**



**Forest (EC015)**

Surface

**Symbol Information**

|                                                                                                                                |                                                                                               |                                  |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                     | <b>Symbol Graphic Name:</b> AR_Lt-Green_Forest_Dense                                          |                                  |
|                                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                             |                                  |
|                                                                                                                                | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color. |                                  |
| <b>Element Name:</b> Lt-Green_ScreenedAreaFill                                                                                 |                                                                                               | <b>Element Reference:</b> A00106 |
| <b>Element Type:</b> Area - Fill                                                                                               |                                                                                               |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Screened Fill |                                                                                               |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                   | <b>Parameters:</b>                                                                            |                                  |
|                                                                                                                                | <b>Note:</b> Two colors are combined together to make one color tint                          |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                        |
|----------|-------------------------------------|---------------------------------|
| R003341  | Forest / standard / dense (surface) | (ARA >= 390625) and (DMT >= 51) |

**Label Information**

|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| <b>Label Description:</b>            | Forest / named (surface)                       |
| <b>Additional Labeling Criteria:</b> | N/A                                            |
| <b>Label String:</b>                 | [ZI005_FNA]                                    |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Lt-Green_Forest_ScatteredTrees                               |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                           |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |  |

**Forest (EC015) (continued)**

Surface

|                                                                                                                                       |                                                                                                                                 |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Lt-Green_ScatteredTreesFill                                                                                      | <b>Element Reference:</b> A00107                                                                                                | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Scattered Trees Fill |                                                                                                                                 |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                          | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Lt-Green_ScatteredTreesFill in Annex I<br><b>Note:</b> Area Pattern #44 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                 | Criteria                                     |
|----------|-------------------------------------------------------------|----------------------------------------------|
| R003340  | Forest / standard / canopy cover >= 25% and < 51% (surface) | (ARA >= 390625) and (DMT >= 25 and DMT < 51) |

**Label Information**

|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| <b>Label Description:</b>            | Forest / named (surface)                       |
| <b>Additional Labeling Criteria:</b> | N/A                                            |
| <b>Label String:</b>                 | [Z1005_FNA]                                    |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Lt-Green_Tree                                                                                                               |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                                           |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Centerline intersection of trunk and base |

|                                                                                                                       |                                                                                                          |                                    |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Lt-Green_Tree                                                                                    | <b>Element Reference:</b> P00231                                                                         | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) tree |                                                                                                          |                                    |
| <b>Color Token:</b> Lt-Green                                                                                          | <b>Parameters:</b><br><b>Note:</b> See Element: Green_Tree in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                               |
|----------|----------------------------------------|----------------------------------------|
| R003655  | Forest / small area landmark (surface) | (ARA < 390625) and (LMC = 1001 [True]) |

**Symbol Sample**



Curve

**Forest (EC015) (continued)**

Curve

| Symbol Information                                                                                                                                 |                                                                                                                                                                                                                                                      |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                                                                   | Symbol Graphic Name: LN_Lt-Green_ShelterBelt                                                                                                                                                                                                         |                              |
|                                                                                                                                                    | Apply Label to Symbol: No                                                                                                                                                                                                                            |                              |
|                                                                                                                                                    | Symbol Placement Instructions: The linear symbology is applied to the center of the surface geometry aligned with the length of the feature.                                                                                                         |                              |
| Element Name: Lt-Green_ShelterBelt                                                                                                                 | Element Reference: L00353                                                                                                                                                                                                                            | Element Type: Line - Styled  |
| Description: Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.1mm Open Circle repeating along the li |                                                                                                                                                                                                                                                      |                              |
| Color Token: Lt-Green                                                                                                                              | <b>Parameters:</b><br>Lineweight: 0.1mm<br>Repeating Point: Green362_0.5mmOpenCircle<br>Repeating Point Interval: 0.5mm<br>Note: The repeating point interval is such that the consecutive circles touch edges (centers of circles are 0.5mm apart). |                              |
| Element Name: Lt-Green_0.5mmOpenCircle                                                                                                             | Element Reference: P00232                                                                                                                                                                                                                            | Element Type: Point - Simple |
| Description: Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.5mm diameter open circle with a 0.1mm  |                                                                                                                                                                                                                                                      |                              |
| Color Token: Lt-Green                                                                                                                              | <b>Parameters:</b><br>Lineweight: 0.1mm<br>Diameter: 0.5mm                                                                                                                                                                                           |                              |

**Symbol Portrayal Rules**

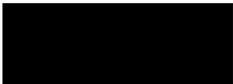
| Rule Ref | Description                   | Criteria                             |
|----------|-------------------------------|--------------------------------------|
| R003448  | Forest / shelter belt (curve) | (SBC = 1001) and (LMC = 1001 [True]) |

**Symbol Sample**



**Fortified\_Building (AH055)**

Surface

| Symbol Information                                                                  |                                                                                                                                   |                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  | Symbol Graphic Name: AR_Black_Fortification                                                                                       |                           |
|                                                                                     | Apply Label to Symbol: Yes                                                                                                        |                           |
|                                                                                     | Symbol Placement Instructions: The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                           |
| Element Name: Black_SolidAreaFill                                                   | Element Reference: A00006                                                                                                         | Element Type: Area - Fill |
| Description: Black Solid Fill                                                       |                                                                                                                                   |                           |
| Color Token: Black                                                                  | <b>Parameters:</b><br>Note: Solid Fill                                                                                            |                           |

**Symbol Portrayal Rules**

| Rule Ref | Description                               | Criteria     |
|----------|-------------------------------------------|--------------|
| R003044  | Fortified Building / large area (surface) | (LZN >= 375) |

**Label Information**

**Label Description:** Fortified Building / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information])  
**Label String:** "Fort"

**Fortified\_Building (AH055) (continued)**

Surface

|                                                                   |                                                                                                                                                                     |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                                         |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Fortified Building / not usable (surface)<br>(PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Fort (not usable)"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                  |

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                                                           |                                                                     |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br>                                                                            | <b>Symbol Graphic Name:</b> PT_Black_Fortification                  |                                     |
|                                                                                                                                                                                           | <b>Apply Label to Symbol:</b> Yes                                   |                                     |
|                                                                                                                                                                                           | <b>Symbol Placement Instructions:</b> Origin: Center of open square |                                     |
| <b>Element Name:</b> Black_Fortification                                                                                                                                                  | <b>Element Reference:</b> P00108                                    | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black open square with all sides 0.8 mm and four black 0.5mm length ticks extending out from each corner at 45, 135, 225, and 315 degrees. All lineweights are 0.1mm. |                                                                     |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                 | <b>Parameters:</b><br><b>Length:</b> 0.5mm                          | <b>Lineweight:</b> 0.1mm            |

**Symbol Portrayal Rules**

| Rule Ref | Description                               | Criteria                                 |
|----------|-------------------------------------------|------------------------------------------|
| R003671  | Fortified Building / small area (surface) | (LZN > 124 and LZN < 375) and (HGT < 46) |

**Label Information**

|                                                                   |                                                                                                                                                                     |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Fortified Building / not usable (surface)<br>(PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "(not usable)"<br>22<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                     |

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                  |                                                                     |  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Fortification                  |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                   |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of open square |  |



**Fuel\_Storage\_Facility (AM075) (continued)**

Surface

**Label Description:** Fuel Storage Facility / not usable (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** "Fuel storage (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                       |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_FuelStorageFacility              |                                  |                                     |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                     |                                  |                                     |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |                                     |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                       | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Length: 0.8mm<br>Note: Square is filled         |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria |
|----------|-------------------------------------|----------|
| R003536  | Fuel Storage Facility / all (point) | ALL      |

**Label Information**

**Label Description:** Fuel Storage Facility / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Fuel storage"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Geologic\_Fault (DB110)**

Curve

**Symbol Information**

|                                                                                                                  |                                                                                                       |  |  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_GeologicFault                                             |  |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |  |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |  |

**Geologic\_Fault (DB110) (continued)**

Curve

|                                                              |                                         |                                    |
|--------------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine             | <b>Element Reference:</b> L00023        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Dk-Brown1815                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria |
|----------|------------------------------|----------|
| R003252  | Geologic Fault / all (curve) | ALL      |

**Label Information**

**Label Description:** Geologic Fault / all (curve)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** "Fault"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Geopolitical\_Entity (FA002 - Boundary Data Store)**

Surface

**Symbol Information**

|                           |                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_GeopoliticalEntity_DMZ                                                     |
|                           | <b>Apply Label to Symbol:</b> Yes                                                                               |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |

|                                                                                 |                                                                                           |                                    |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_0.25mm-5.0mmLenDash-1.0mmGapLine                     | <b>Element Reference:</b> L00237                                                          | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 5.0mm dash, 1.0mm gap) |                                                                                           |                                    |
| <b>Color Token:</b> Black                                                       | <b>Parameters:</b><br>Lineweight: 0.25mm      Dash Length: 5.0mm      Dash Spacing: 1.0mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                        | Criteria                             |
|----------|----------------------------------------------------|--------------------------------------|
| R003537  | Geopolitical Entity / demilitarized zone (surface) | (GEC = 7 [Demilitarized Zone (DMZ)]) |

**Label Information**

**Label Description:** Geopolitical Entity / demilitarized zone (surface)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** "DEMILITARIZED ZONE"  
**Characteristics:** 48  
 48 (Black, Condensed, Bold, 10 pt, Upper case)

**Symbol Sample**



**Geopolitical\_Entity (FA002 - Boundary Data Store) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_GeopoliticalEntity_ZoneOfOccupation                                        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.25mm-2.5mmLenDash-1.0mmGapLine                                                |                                                                                                                 | <b>Element Reference:</b> L00258 |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 2.5mm dash, 1.0mm gap)                            |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 1.0mm            |                                  |

| Symbol Portrayal Rules |                                                    |                                |
|------------------------|----------------------------------------------------|--------------------------------|
| Rule Ref               | Description                                        | Criteria                       |
| R003538                | Geopolitical Entity / zone of occupation (surface) | (GEC = 8 [Zone of Occupation]) |

| Label Information                    |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Geopolitical Entity / zone of occupation (surface)      |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [ZI005_FNA] "OCCUPIED"                                  |
| <b>Characteristics:</b>              | 48,48<br>48 (Black, Condensed, Bold, 10 pt, Upper case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

| Symbol Information                                                                                                                                             |                                                                                                                                                                                                                                                                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                                   | <b>Symbol Graphic Name:</b> AR_Blue072_GeopoliticalEntity_BufferZone                                                                                                                                                                                                                                                        |                                  |
|                                                                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                           |                                  |
|                                                                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. The AP-98 filled line is on the inside of the surface.                                                                                                                                                      |                                  |
| <b>Element Name:</b> Blue072_BufferZone                                                                                                                        |                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00280 |
| <b>Description:</b> Blue072 0.25mm Solid Line with a Blue072 2.5mm Dashed Line (2.5mm width, 25mm dash, 13mm gap) filled with AP-98 (area pattern 98) combined |                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Color Token:</b> Blue072                                                                                                                                    | <b>Parameters:</b><br><b>Line Style:</b> Blue072_0.25mmSolidLine<br><b>Line Style 2:</b> Blue072_2.5mm-25mmLenDashAP-98Line<br><b>Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the AP-98 dashed filled line is offset 0.375 mm to the inside of the surface's perimeter. |                                  |
| <b>Element Name:</b> Blue072_0.25mmSolidLine                                                                                                                   |                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00276 |
| <b>Description:</b> Blue072 0.25mm Solid Line (0.25mm wt)                                                                                                      |                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Color Token:</b> Blue072                                                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm                                                                                                                                                                                                                                                                             |                                  |
| <b>Element Name:</b> Blue072_2.5mm-25mmLenDashAP-98Line                                                                                                        |                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00279 |
| <b>Description:</b> Blue072 2.5mm Dashed Line (2.5mm width, 25mm dash, 13mm gap) filled with AP-98 (area pattern 98)                                           |                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Color Token:</b> Blue072                                                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 2.5mm <b>Dash Length:</b> 25mm <b>Dash Spacing:</b> 13mm<br><b>Note:</b> Blue072 2.5mm width 25mm length dash is filled with AP-98. See Element: Blue072_AP98_Fill in Annex I                                                                                                      |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Geopolitical\_Entity (FA002 - Boundary Data Store) (continued)**

Surface

R003020 Geopolitical Entity / buffer zone (surface) (GEC = 17 [Buffer Zone])

**Label Information**

**Label Description:** Geopolitical Entity / buffer zone (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA] "BUFFER ZONE"  
**Characteristics:** 100,100  
 100 (Blue072, Condensed, Bold, Italic, 7-10pt, Upper case)

**Symbol Sample**



**Glacier (BJ030)**

Surface

**Symbol Information**

|                                                                                   |                                                                                                                                                                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Cyan_Glacier                                                                                                                       |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                 |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |

**Element Name:** Cyan\_GlacierFill **Element Reference:** A00017 **Element Type:** Area - Pattern

**Description:** Cyan Glacier Fill

**Color Token:** Cyan **Parameters:**  
**Area Pattern:** See Element: Cyan\_GlacierFill in Annex I  
**Note:** Area Pattern #104

**Element Name:** Cyan\_0.2mm-1mmLenDash-0.5mmGapLine **Element Reference:** L00040 **Element Type:** Line - Styled

**Description:** Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)

**Color Token:** Cyan **Parameters:**  
**Lineweight:** 0.2mm **Dash Length:** 1.0mm **Dash Spacing:** 0.5mm

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003228  | Glacier / all (surface) | ALL      |

**Label Information**

**Label Description:** Glacier / named (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 38  
 38 (Cyan, Condensed, Italic, 6-16 pt, Mixed case)

**Symbol Sample**



**Golf\_Course (AK100)**

Surface

**Golf\_Course (AK100) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_GolfCourse                                                                 |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                                  |                 |
|------------------------|----------------------------------|-----------------|
| Rule Ref               | Description                      | Criteria        |
| R003058                | Golf Course / standard (surface) | (ARA >= 390625) |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Golf Course / all (surface)                 |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Golf course"                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |             |
|-------------------------------------------------------------------------------------|-------------|
|  | Golf course |

| Symbol Information                                                                                                                                  |                                                                                                                                          |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                        | <b>Symbol Graphic Name:</b> PT_Lt-Green_GolfCourse                                                                                       |                                  |
|                                                                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                                                                     | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Lt-Green_0.8mmFilledSquare                                                                                                     |                                                                                                                                          | <b>Element Reference:</b> P00233 |
| <b>Element Type:</b> Point - Simple                                                                                                                 |                                                                                                                                          |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) filled square with all sides 0.8mm |                                                                                                                                          |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                                        | <b>Parameters:</b>                                                                                                                       |                                  |
|                                                                                                                                                     | <b>Length:</b> 0.8mm                                                                                                                     |                                  |
|                                                                                                                                                     | <b>Note:</b> Square is filled                                                                                                            |                                  |

| Symbol Portrayal Rules |                                             |                                        |
|------------------------|---------------------------------------------|----------------------------------------|
| Rule Ref               | Description                                 | Criteria                               |
| R003520                | Golf Course / small area landmark (surface) | (ARA < 390625) and (LMC = 1001 [True]) |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Golf Course / all (surface)                 |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Golf course"                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Golf\_Course (AK100) (continued)**

Surface

Symbol Sample

■ Golf course

**Grain\_Elevator (AM030)**

Point

| Symbol Information                                                                                                                 |                                                                                                                                                |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                         | <b>Symbol Graphic Name:</b> PT_Black_GrainElevator                                                                                             |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                              |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                                                    |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                                                                                                | <b>Element Reference:</b> P00010 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                                                                                                |                                  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                              | Criteria   |
|----------|------------------------------------------|------------|
| R003105  | Grain Elevator / non-obstruction (point) | (HGT < 46) |

Label Information

**Label Description:** Grain Elevator / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Grain elevator"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

Symbol Sample

○ Grain elevator

**Grain\_Storage\_Structure (AM020)**

Point

| Symbol Information                                                                                                                 |                                                                                                                                                |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                       | <b>Symbol Graphic Name:</b> PT_Black_GrainStorage                                                                                              |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                              |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                                                    |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                                                                                                | <b>Element Reference:</b> P00010 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                                                                                                |                                  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

**Grain\_Storage\_Structure (AM020) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria   |
|----------|---------------------------------------------------|------------|
| R003102  | Grain Storage Structure / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Grain Storage Structure / all (point)       |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Silo"                                      |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Grassland (EB010)**

Surface

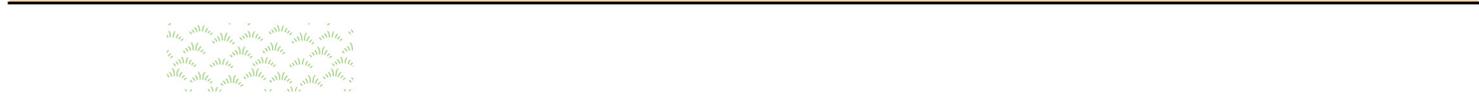
**Symbol Information**

|                                                                                                                                 |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                               | <b>Symbol Graphic Name:</b> AR_Lt-Green_Grassland                                           |
|                                                                                                                                 | <b>Apply Label to Symbol:</b> No                                                            |
|                                                                                                                                 | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |
| <b>Element Name:</b> Lt-Green_GrasslandFill                                                                                     |                                                                                             |
| <b>Element Reference:</b> A00109                                                                                                |                                                                                             |
| <b>Element Type:</b> Area - Pattern                                                                                             |                                                                                             |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Grassland Fill |                                                                                             |
| <b>Color Token:</b> Lt-Green                                                                                                    | <b>Parameters:</b>                                                                          |
|                                                                                                                                 | <b>Area Pattern:</b> See Element: Lt-Green_GrasslandFill in Annex I                         |
|                                                                                                                                 | <b>Note:</b> Area Pattern #66                                                               |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                    |
|----------|--------------------------------|-----------------------------|
| R003308  | Grassland / tropical (surface) | (VEG = 10 [Tropical Grass]) |

**Symbol Sample**



**Greenhouse (AJ110)**

Surface

**Symbol Information**

|                                                                                     |                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Lt-Green_Greenhouse                                                                                                                                                           |
|                                                                                     | <b>Apply Label to Symbol:</b> No                                                                                                                                                                             |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. A minimum plotted width of 0.5mm is required. |

**Greenhouse (AJ110) (continued)**

Surface

|                                                                                                                                |                                                                                            |                                    |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Lt-Green_ScreenedAreaFill                                                                                 | <b>Element Reference:</b> A00106                                                           | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Screened Fill |                                                                                            |                                    |
| <b>Color Token:</b> Lt-Green                                                                                                   | <b>Parameters:</b><br><b>Note:</b> Two colors are combined together to make one color tint |                                    |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                                      | <b>Element Reference:</b> L00007                                                           | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                                          |                                                                                            |                                    |
| <b>Color Token:</b> Black                                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                             |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria     |
|----------|---------------------------------|--------------|
| R003396  | Greenhouse / standard (surface) | (LZN >= 250) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                                                                             |                                                                                                                                                                                                                                                          |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br>                                                                                              | <b>Symbol Graphic Name:</b> PT_Lt-Green_Greenhouse                                                                                                                                                                                                       |                                     |
|                                                                                                                                                                                                             | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                         |                                     |
|                                                                                                                                                                                                             | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature and oriented per the AOO attribute. Origin: Center of rectangle                                                                                  |                                     |
| <b>Element Name:</b> Lt-Green_FilledRectangle_0.1mmOutline                                                                                                                                                  | <b>Element Reference:</b> P00109                                                                                                                                                                                                                         | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm x 1.0mm rectangle with a 0.1mm lineweight outline perimeter and a Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) fill inside. |                                                                                                                                                                                                                                                          |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> The 0.5mm x 1.0mm rectangle has a Black 0.1mm lineweight outline perimeter and a Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) fill inside |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria                            |
|----------|-----------------------------------|-------------------------------------|
| R003643  | Greenhouse / small area (surface) | (LZN < 250) and (LMC = 1001 [True]) |

**Symbol Sample**



**Hazardous\_Rock (BD130 - Maritime Data Store)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                                |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_HazardousRock                                             |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                               |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Where the line segments all intersect each other |

**Hazardous\_Rock (BD130 - Maritime Data Store) (continued)**

Point

|                                                                                                                                            |                                            |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Rock                                                                                                            |                                            | <b>Element Reference:</b> P00095 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Total of three 1.5mm length lines with a 0.1mm lineweight oriented 60 degrees apart, starting at 30 degrees from north |                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                  | <b>Parameters:</b><br><b>Length:</b> 1.5mm |                                  | <b>Lineweight:</b> 0.1mm            |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000658  | Hazardous Rock / not always submerged (point) | (Z1025_WLE = 1 [Partly Submerged] or Z1025_WLE = 2 [Always Dry] or Z1025_WLE = 4 [Covers and Uncovers] or Z1025_WLE = 5 [Awash at Low Water] or Z1025_WLE = 9 [Awash at Chart Datum] or Z1025_WLE = 999 [Other] or Z1025_WLE = -999999 [No Information]) |

**Symbol Sample**

\*

**Heating\_Facility (AD050)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_HeatingFacility                                                            |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |

|                                                                               |                                                |                                                         |
|-------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00210               | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap) |                                                |                                                         |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria |
|----------|----------------------------------|----------|
| R003299  | Heating Facility / all (surface) | ALL      |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Heating Facility / all (surface)            |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Heating facility"                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**

 Heating facility

Point

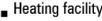
**Heating\_Facility (AD050) (continued)**

Point

| Symbol Information                                                                                             |                                                                             |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_HeatingFacility                        |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

| Symbol Portrayal Rules |                                |          |
|------------------------|--------------------------------|----------|
| Rule Ref               | Description                    | Criteria |
| R003300                | Heating Facility / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Heating Facility / all (point)              |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Heating facility"                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

**Helipad (GB030)**

Point

| Symbol Information                                                                                               |                                                                                                                                                                                                                                              |                                      |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Helipad                                                                                                                                                                                               |                                      |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                             |                                      |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                                                                                                                                                          |                                      |
| <b>Element Name:</b> Blue072_Helipad                                                                             | <b>Element Reference:</b> P00090                                                                                                                                                                                                             | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Blue072 open circle with H centered inside the circle                                        |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Point 1 Name:</b> Blue072_3.0mmOpenCircle<br><b>Point 2 Name:</b> Blue072_H<br><b>Note:</b> Open Circle with H centered inside it                                                                                   |                                      |
| <b>Element Name:</b> Blue072_3.0mmOpenCircle                                                                     | <b>Element Reference:</b> P00170                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Blue072 3.0mm diameter open circle with a 0.25mm lineweight                                  |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Diameter:</b> 3.0mm                                                                                                                                                                    |                                      |
| <b>Element Name:</b> Blue072_H                                                                                   | <b>Element Reference:</b> P00086                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Blue072 letter 'H'                                                                           |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Note:</b> Two (2) vertical lines with an overall height of 1.5mm connected by a horizontal line with an overall length of 1.2mm to form a capital letter 'H' with a 0.25mm lineweight. |                                      |

**Helipad (GB030) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                                                                                                                                                                                                                                                        |
|----------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003326  | Helipad / non-hospital (point) | (HAF = 1 [Helipad] or HAF = 2 [Land Aerodrome] or HAF = 4 [Non-hospital Building] or HAF = 6 [Rig] or HAF = 9 [Offshore Construction] or HAF = 10 [Water Aerodrome] or HAF = 11 [Military Installation] or HAF = 999 [Other] or HAF = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                            |                                                                                                                                                                                                                                              |                                      |  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Helipad_Hospital                                                                                                                                                                                      |                                      |  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                             |                                      |  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open square                                                                                                                                                                          |                                      |  |
| <b>Element Name:</b> Blue072_HospitalHelipad                                                               | <b>Element Reference:</b> P00089                                                                                                                                                                                                             | <b>Element Type:</b> Point - Complex |  |
| <b>Description:</b> Blue072 open square with H centered inside the square                                  |                                                                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Point 1 Name:</b> Blue072_0.25mm-3.0mmOpenSquare<br><b>Point 2 Name:</b> Blue072_H<br><b>Note:</b> Open Square with H centered inside it                                                                            |                                      |  |
| <b>Element Name:</b> Blue072_0.25mm-3.0mmOpenSquare                                                        | <b>Element Reference:</b> P00169                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |  |
| <b>Description:</b> Blue072 0.25mm lineweight open square with all sides 3.0mm                             |                                                                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Length:</b> 3.0mm<br><b>Note:</b> Open Square with lineweight of 0.25mm and sides of the square are 3.0mm long                                                                         |                                      |  |
| <b>Element Name:</b> Blue072_H                                                                             | <b>Element Reference:</b> P00086                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |  |
| <b>Description:</b> Blue072 letter 'H'                                                                     |                                                                                                                                                                                                                                              |                                      |  |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Note:</b> Two (2) vertical lines with an overall height of 1.5mm connected by a horizontal line with an overall length of 1.2mm to form a capital letter 'H' with a 0.25mm lineweight. |                                      |  |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria             |
|----------|----------------------------|----------------------|
| R003327  | Helipad / hospital (point) | (HAF = 3 [Hospital]) |

**Symbol Sample**



**Helipad (GB035)**

Surface

**Heliport (GB035) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Heliport                                                                   |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                          |          |
|------------------------|--------------------------|----------|
| Rule Ref               | Description              | Criteria |
| R003328                | Heliport / all (surface) | ALL      |

| Label Information                    |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Heliport / usable (surface)                                                                     |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information])                                            |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                     |
| <b>Characteristics:</b>              | 24<br>24 (Blue072, Condensed, 7 pt, Mixed case)                                                 |
| <b>Label Description:</b>            | Heliport / construction (surface)                                                               |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                        |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(construction)"                                                                 |
| <b>Characteristics:</b>              | 24,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case) |
| <b>Label Description:</b>            | Heliport / not usable (surface)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])    |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(not usable)"                                                                   |
| <b>Characteristics:</b>              | 24,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case) |

| Symbol Sample                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

Point

| Symbol Information                                                                                           |                                                                     |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Heliport                     |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                   |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of open circle |

**Heliport (GB035) (continued)**

Point

|                                                                                 |                                                                                                                                                                                                                                              |                                      |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Element Name:</b> Blue072_Helipad                                            | <b>Element Reference:</b> P00090                                                                                                                                                                                                             | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> Blue072 open circle with H centered inside the circle       |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                     | <b>Parameters:</b><br><b>Point 1 Name:</b> Blue072_3.0mmOpenCircle<br><b>Point 2 Name:</b> Blue072_H<br><b>Note:</b> Open Circle with H centered inside it                                                                                   |                                      |
| <b>Element Name:</b> Blue072_3.0mmOpenCircle                                    | <b>Element Reference:</b> P00170                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Blue072 3.0mm diameter open circle with a 0.25mm lineweight |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Diameter:</b> 3.0mm                                                                                                                                                                    |                                      |
| <b>Element Name:</b> Blue072_H                                                  | <b>Element Reference:</b> P00086                                                                                                                                                                                                             | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Blue072 letter 'H'                                          |                                                                                                                                                                                                                                              |                                      |
| <b>Color Token:</b> Blue072                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm<br><b>Note:</b> Two (2) vertical lines with an overall height of 1.5mm connected by a horizontal line with an overall length of 1.2mm to form a capital letter 'H' with a 0.25mm lineweight. |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003042  | Heliport / all (point) | ALL      |

**Label Information**

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Heliport / usable (point)                                                                       |
| <b>Additional Labeling Criteria:</b> | (PCF = 2 [Intact] or PCF = -999999 [No Information])                                            |
| <b>Label String:</b>                 | [Z1005_FNA]                                                                                     |
| <b>Characteristics:</b>              | 24<br>24 (Blue072, Condensed, 7 pt, Mixed case)                                                 |
| <b>Label Description:</b>            | Heliport / construction (point)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                        |
| <b>Label String:</b>                 | [Z1005_FNA]<br>"(construction)"                                                                 |
| <b>Characteristics:</b>              | 24,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case) |
| <b>Label Description:</b>            | Heliport / not usable (point)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])    |
| <b>Label String:</b>                 | [Z1005_FNA]<br>"(not usable)"                                                                   |
| <b>Characteristics:</b>              | 24,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case) |

**Symbol Sample**



 Charles Wood Helipad

**Hop\_Field (EA055)**

Surface

**Hop\_Field (EA055) (continued)**

Surface

| Symbol Information                                                                                                                  |                                                                                             |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                          | <b>Symbol Graphic Name:</b> AR_Lt-Green_HopField                                            |                                  |
|                                                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                           |                                  |
|                                                                                                                                     | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |                                  |
| <b>Element Name:</b> Lt-Green_VineyardHopFill                                                                                       |                                                                                             | <b>Element Reference:</b> A00111 |
| <b>Element Type:</b> Area - Pattern                                                                                                 |                                                                                             |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Vineyard/Hops Fill |                                                                                             |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                        | <b>Parameters:</b>                                                                          |                                  |
|                                                                                                                                     | <b>Area Pattern:</b> See Element: Lt-Green_VineyardHopFill in Annex I                       |                                  |
|                                                                                                                                     | <b>Note:</b> Area Pattern #77                                                               |                                  |

| Symbol Portrayal Rules |                                |                 |
|------------------------|--------------------------------|-----------------|
| Rule Ref               | Description                    | Criteria        |
| R003316                | Hop Field / standard (surface) | (ARA >= 390625) |

| Label Information                    |                                                                                                                                                                                                                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Hop Field / not terraced (surface)                                                                                                                                                                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (ZI013_FFP = 1 [Linear] or ZI013_FFP = 2 [Regular] or ZI013_FFP = 4 [Intermingled Woods] or ZI013_FFP = 5 [Intermingled Trees] or ZI013_FFP = 6 [Treeless] or ZI013_FFP = 7 [Trellised] or ZI013_FFP = 8 [Irregular] or ZI013_FFP = 999 [Other] or ZI013_FFP = -999999 [No Information]) |
| <b>Label String:</b>                 | "Hops"                                                                                                                                                                                                                                                                                   |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                           |
| <b>Label Description:</b>            | Hop Field / terraced (surface)                                                                                                                                                                                                                                                           |
| <b>Additional Labeling Criteria:</b> | (ZI013_FFP = 3 [Terraced])                                                                                                                                                                                                                                                               |
| <b>Label String:</b>                 | "Hops (terraces)"                                                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                           |

| Symbol Sample                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

**Hulk (BD181)**

Point

| Symbol Information                                                                                                                 |                                                                  |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                       | <b>Symbol Graphic Name:</b> PT_Black_Hulk                        |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot      |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                  | <b>Element Reference:</b> P00010 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                  |                                  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                  |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b>                                               |                                  |
|                                                                                                                                    | <b>Diameter:</b> 1.25mm                                          |                                  |
|                                                                                                                                    | <b>Lineweight:</b> 0.15mm                                        |                                  |
|                                                                                                                                    | <b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Hulk (BD181) (continued)**

Point

R003550 Hulk / non-obstruction / landmark (point) (HGT < 46) and (LMC = 1001 [True])

**Label Information**

**Label Description:** Hulk / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA] "Hulk"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

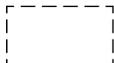
**Symbol Sample**

o Hulk o Queen Mary Hulk

**Hydrocarbon\_Products\_Facility (AC040)**

Surface

**Symbol Information**

|                                                                                                            |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_HydrocarbonProdFacility                                                    |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria |
|----------|-----------------------------------------------|----------|
| R003546  | Hydrocarbon Products Facility / all (surface) | ALL      |

**Label Information**

**Label Description:** Hydrocarbon Products Facility / usable / known (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 74 [Non-solid Hydrocarbon Fuel] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 214 [Biodiesel])  
**Label String:** [ZI014\_PPO] "facility"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Hydrocarbon Products Facility / usable / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])  
**Label String:** "Hydrocarbon facility"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Hydrocarbon Products Facility / construction / known (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62

**Hydrocarbon\_Products\_Facility (AC040) (continued)**

Surface

[Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 74 [Non-solid Hydrocarbon Fuel] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 214 [Biodiesel])

**Label String:** [ZI014\_PPO] "facility (construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Hydrocarbon Products Facility / construction / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Hydrocarbon facility (construction)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Hydrocarbon Products Facility / not usable / known (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 74 [Non-solid Hydrocarbon Fuel] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 214 [Biodiesel])

**Label String:** [ZI014\_PPO] "facility (not usable)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Hydrocarbon Products Facility / not usable / unknown (surface)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Hydrocarbon facility (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Hydrocarbon facility

 Liquefied natural gas (LNG) facility

Point

| Symbol Information                                                                                               |                                                                       |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_HydrocarbonProdFacility          |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                              |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                    |                                  |
|                                                                                                                  | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                                  | <b>Note:</b> Square is filled                                         |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria |
|----------|---------------------------------------------|----------|
| R003547  | Hydrocarbon Products Facility / all (point) | ALL      |

**Label Information**

**Hydrocarbon\_Products\_Facility (AC040) (continued)**

Point

**Label Description:** Hydrocarbon Products Facility / known (point)  
**Additional Labeling Criteria:** (ZI014\_PPO = 4 [Asphalt] or ZI014\_PPO = 16 [Chemical] or ZI014\_PPO = 45 [Gas] or ZI014\_PPO = 46 [Petrol] or ZI014\_PPO = 61 [Liquefied Natural Gas (LNG)] or ZI014\_PPO = 62 [Liquefied Petroleum Gas (LPG)] or ZI014\_PPO = 74 [Non-solid Hydrocarbon Fuel] or ZI014\_PPO = 83 [Petroleum] or ZI014\_PPO = 84 [Plastic] or ZI014\_PPO = 137 [Petrochemical] or ZI014\_PPO = 150 [Fertilizer] or ZI014\_PPO = 157 [Petroleum and/or Natural Gas] or ZI014\_PPO = 214 [Biodiesel])

**Label String:** [ZI014\_PPO] "facility"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Hydrocarbon Products Facility / unknown (point)  
**Additional Labeling Criteria:** (ZI014\_PPO = 999 [Other] or ZI014\_PPO = -999999 [No Information])

**Label String:** "Hydrocarbon facility"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Hydrocarbon facility

■ Gas facility

**Hydrocarbons\_Field (AA052)**

Surface

**Symbol Information**

|                                                                                     |                                                                                                                 |                                  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Black_HydrocarbonsField                                                          |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                          |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                  |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)       |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                     | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                     |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria |
|----------|------------------------------------|----------|
| R003548  | Hydrocarbons Field / all (surface) | ALL      |

**Label Information**

**Label Description:** Hydrocarbons Field / petroleum / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (PPO = 83 [Petroleum])

**Label String:** "Oil field"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Hydrocarbons Field / gas / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (PPO = 45 [Gas])

**Label String:** [PPO] "field"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Hydrocarbons Field / unknown / usable (surface)  
**Additional Labeling Criteria:** (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (PPO = 999 [Other] or PPO = -999999 [No Information])

**Hydrocarbons\_Field (AA052) (continued)**

Surface

|                                      |                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | "Hydrocarbons field"                                                                                                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Hydrocarbons Field / petroleum / construction (surface)                                                                                                |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (PPO = 83 [Petroleum])                                                                                                    |
| <b>Label String:</b>                 | "Oil field (construction)"                                                                                                                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Hydrocarbons Field / gas / construction (surface)                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (PPO = 45 [Gas])                                                                                                          |
| <b>Label String:</b>                 | [PPO] "field (construction)"                                                                                                                           |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Hydrocarbons Field / unknown / construction (surface)                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (PPO = 999 [Other] or PPO = -999999 [No Information])                                                                     |
| <b>Label String:</b>                 | "Hydrocarbons field (construction)"                                                                                                                    |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Hydrocarbons Field / petroleum / not usable (surface)                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (PPO = 83 [Petroleum])                                |
| <b>Label String:</b>                 | "Oil field (not usable)"                                                                                                                               |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |
| <b>Label Description:</b>            | Hydrocarbons Field / gas / not usable (surface)                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (PPO = 45 [Gas])                                      |
| <b>Label String:</b>                 | [PPO] "field (not usable)"                                                                                                                             |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                              |
| <b>Label Description:</b>            | Hydrocarbons Field / unknown / not usable (surface)                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (PPO = 999 [Other] or PPO = -999999 [No Information]) |
| <b>Label String:</b>                 | "Hydrocarbons field (not usable)"                                                                                                                      |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                            |

**Symbol Sample**

 Hydrocarbon field

 Oil field

**Ice Cap (BJ099)**

Surface

| Symbol Information                                                                  |                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Cyan_IceCap                                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                           |
|                                                                                     | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |

**Ice Cap (BJ099) (continued)**

Surface

|                                                          |                                                                                                                 |                                     |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_AP103Fill                      | <b>Element Reference:</b> A00016                                                                                | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Ice Cap, Polar Ice, Sabkha Fill |                                                                                                                 |                                     |
| <b>Color Token:</b> Cyan                                 | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_AP103 in Annex I<br><b>Note:</b> Area Pattern #103 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003672  | Ice Cap / all (surface) | ALL      |

**Label Information**

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <b>Label Description:</b>            | Ice Cap / all (surface)                             |
| <b>Additional Labeling Criteria:</b> | N/A                                                 |
| <b>Label String:</b>                 | "Ice cap"                                           |
| <b>Characteristics:</b>              | 96<br>96 (Cyan, Bold, Condensed, 10 pt, Mixed case) |

**Symbol Sample**



**Ice\_Cliff (BJ040)**

Curve

**Symbol Information**

|  |                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_IceCliff                                                                                |
|  | <b>Apply Label to Symbol:</b> No                                                                                            |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |

|                                                                                                               |                                                                                                                                                                                                                                                           |                                                         |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Cyan_IceCliff                                                                            | <b>Element Reference:</b> L00063                                                                                                                                                                                                                          | <b>Element Type:</b> Line - Complex                     |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 5.0mm dash, 0.5mm gap) with Tick (0.1mm wt, 0.5mm long) |                                                                                                                                                                                                                                                           |                                                         |
| <b>Color Token:</b> Cyan                                                                                      | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.2mm-5mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 0.5mm<br><b>Note:</b> Tick end is on and at 90 degrees to dashed line, facing downhill |                                                         |
| <b>Element Name:</b> Cyan_0.2mm-5mmLenDash-0.5mmGapLine                                                       | <b>Element Reference:</b> L00042                                                                                                                                                                                                                          | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 5.0mm dash, 0.5mm gap)                                  |                                                                                                                                                                                                                                                           |                                                         |
| <b>Color Token:</b> Cyan                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                                                            | <b>Dash Length:</b> 5.0mm<br><b>Dash Spacing:</b> 0.5mm |
| <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick                                                                  | <b>Element Reference:</b> P00055                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Simple                     |
| <b>Description:</b> Cyan 0.5mm length line with a 0.1mm lineweight                                            |                                                                                                                                                                                                                                                           |                                                         |
| <b>Color Token:</b> Cyan                                                                                      | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                        |                                                         |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003229  | Ice Cliff / all (curve) | ALL      |



**Ice\_Peak (BJ060) (continued)**

Point

Symbol Sample



**Ice\_Route (AQ075)**

Curve

Symbol Information

|                                                                               |                                                                                                       |                                  |                                                         |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
|                                                                               | <b>Symbol Graphic Name:</b> LN_Black_IceRoute                                                         |                                  |                                                         |
|                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                                         |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                                         |
| <b>Element Name:</b> Black_0.2mm-2mmLenDash-0.5mmGapLine                      |                                                                                                       | <b>Element Reference:</b> L00032 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                       |                                  |                                                         |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                        |                                  | <b>Dash Length:</b> 2.0mm<br><b>Dash Spacing:</b> 0.5mm |

Symbol Portrayal Rules

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003138  | Ice Route / all (curve) | ALL      |

Label Information

|                                      |                                                             |
|--------------------------------------|-------------------------------------------------------------|
| <b>Label Description:</b>            | Ice Route / all (curve)                                     |
| <b>Additional Labeling Criteria:</b> | N/A                                                         |
| <b>Label String:</b>                 | "ICE ROUTE"                                                 |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case) |

Symbol Sample



**Ice\_Shelf (BJ065)**

Surface

Symbol Information

|                                                                              |                                                                                                                 |                                  |                                                         |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
|                                                                              | <b>Symbol Graphic Name:</b> AR_Cyan_IceShelf                                                                    |                                  |                                                         |
|                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                                         |
|                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                                         |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                      |                                                                                                                 | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                                 |                                  |                                                         |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                  |                                  | <b>Dash Length:</b> 2.0mm<br><b>Dash Spacing:</b> 0.5mm |

Symbol Portrayal Rules

| Rule Ref | Description               | Criteria |
|----------|---------------------------|----------|
| R003551  | Ice Shelf / all (surface) | ALL      |

**Ice\_Shelf (BJ065) (continued)**

Surface

**Label Information**

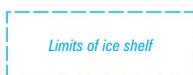
**Label Description:** Ice Shelf / named (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information")

**Label String:** [ZI005\_FNA]  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Ice Shelf / unnamed (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information")

**Label String:** "Limits of ice shelf"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Industrial\_Farm (AL270)**

Surface

**Symbol Information**

|                                                                                                                                          |                                                                                             |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------|
|                                                        | <b>Symbol Graphic Name:</b> AR_Lt-Green_IndustrialFarm                                      |                                  |
|                                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                           |                                  |
|                                                                                                                                          | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |                                  |
| <b>Element Name:</b> Lt-Green_OrchardPlantationFill                                                                                      |                                                                                             | <b>Element Reference:</b> A00112 |
| <b>Element Type:</b> Area - Pattern                                                                                                      |                                                                                             |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Orchard/Plantation Fill |                                                                                             |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                             | <b>Parameters:</b>                                                                          |                                  |
|                                                                                                                                          | <b>Area Pattern:</b> See Element: Lt-Green_OrchardPlantationFill in Annex I                 |                                  |
|                                                                                                                                          | <b>Note:</b> Area Pattern #74                                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria |
|----------|---------------------------------|----------|
| R003578  | Industrial Farm / all (surface) | ALL      |

**Label Information**

**Label Description:** Industrial Farm / known / not terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 1 [Linear] or ZI013\_FFP = 2 [Regular] or ZI013\_FFP = 4 [Intermingled Woods] or ZI013\_FFP = 5 [Intermingled Trees] or ZI013\_FFP = 6 [Treeless] or ZI013\_FFP = 7 [Trellised] or ZI013\_FFP = 8 [Irregular] or ZI013\_FFP = 999 [Other] or ZI013\_FFP = -999999 [No Information]) and (ZI013\_CSP = 8 [Cork-Oak] or ZI013\_CSP = 9 [Cacao] or ZI013\_CSP = 10 [Coffee] or ZI013\_CSP = 22 [Oil Crop] or ZI013\_CSP = 29 [Rubber] or ZI013\_CSP = 33 [Sugar Crop] or ZI013\_CSP = 34 [Tea] or ZI013\_CSP = 35 [Tobacco] or ZI013\_CSP = 41 [Banana] or ZI013\_CSP = 42 [Oil Palm] or ZI013\_CSP = 43 [Coconut] or ZI013\_CSP = 44 [Sugar Cane] or ZI013\_CSP = 45 [Cotton] or ZI013\_CSP = 46 [Bamboo] or ZI013\_CSP = 48 [Timber])

**Label String:** [ZI013\_CSP]  
**Characteristics:** 3  
 3 (Black, Condensed, 6-16 pt, Mixed case)

**Label Description:** Industrial Farm / known / terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 3 [Terraced]) and (ZI013\_CSP = 8 [Cork-Oak] or ZI013\_CSP = 9 [Cacao] or ZI013\_CSP = 10 [Coffee] or ZI013\_CSP = 22 [Oil Crop] or ZI013\_CSP = 29 [Rubber] or ZI013\_CSP = 33 [Sugar Crop] or ZI013\_CSP = 34 [Tea] or ZI013\_CSP = 35 [Tobacco] or ZI013\_CSP = 41 [Banana] or ZI013\_CSP = 42 [Oil Palm] or ZI013\_CSP = 43 [Coconut] or ZI013\_CSP = 44 [Sugar Cane] or ZI013\_CSP = 45 [Cotton] or ZI013\_CSP = 46 [Bamboo] or ZI013\_CSP = 48 [Timber])

**Industrial\_Farm (AL270) (continued)**

Surface

|                                      |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [ZI013_CSP] "(terraces)"                                                                                                                                                                                                                                                                                                                                       |
| <b>Characteristics:</b>              | 3,4<br>3 (Black, Condensed, 6-16 pt, Mixed case)<br>4 (Black, Condensed, 6-16 pt, Lower case)                                                                                                                                                                                                                                                                  |
| <b>Label Description:</b>            | Industrial Farm / unknown / not terraced (surface)                                                                                                                                                                                                                                                                                                             |
| <b>Additional Labeling Criteria:</b> | (ZI013_FFP = 1 [Linear] or ZI013_FFP = 2 [Regular] or ZI013_FFP = 4 [Intermingled Woods] or ZI013_FFP = 5 [Intermingled Trees] or ZI013_FFP = 6 [Treeless] or ZI013_FFP = 7 [Trellised] or ZI013_FFP = 8 [Irregular] or ZI013_FFP = 999 [Other] or ZI013_FFP = -999999 [No Information]) and (ZI013_CSP = 999 [Other] or ZI013_CSP = -999999 [No Information]) |
| <b>Label String:</b>                 | "Plantation"                                                                                                                                                                                                                                                                                                                                                   |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                                                                                                 |
| <b>Label Description:</b>            | Industrial Farm / unknown / terraced (surface)                                                                                                                                                                                                                                                                                                                 |
| <b>Additional Labeling Criteria:</b> | (ZI013_FFP = 3 [Terraced]) and (ZI013_CSP = 999 [Other] or ZI013_CSP = -999999 [No Information])                                                                                                                                                                                                                                                               |
| <b>Label String:</b>                 | "Plantation (terraces)"                                                                                                                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case)                                                                                                                                                                                                                                                                                                                 |

**Symbol Sample**



Point

| Symbol Information                                                                                                                                  |                                                                             |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br>                                    | <b>Symbol Graphic Name:</b> PT_Lt-Green_IndustrialFarm                      |                                     |
|                                                                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                           |                                     |
|                                                                                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                     |
| <b>Element Name:</b> Lt-Green_0.8mmFilledSquare                                                                                                     | <b>Element Reference:</b> P00233                                            | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) filled square with all sides 0.8mm |                                                                             |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                        | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003579  | Industrial Farm / all (point) | ALL      |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Industrial Farm / known (point)                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Additional Labeling Criteria:</b> | (ZI013_CSP = 8 [Cork-Oak] or ZI013_CSP = 9 [Cacao] or ZI013_CSP = 10 [Coffee] or ZI013_CSP = 22 [Oil Crop] or ZI013_CSP = 29 [Rubber] or ZI013_CSP = 33 [Sugar Crop] or ZI013_CSP = 34 [Tea] or ZI013_CSP = 35 [Tobacco] or ZI013_CSP = 41 [Banana] or ZI013_CSP = 42 [Oil Palm] or ZI013_CSP = 43 [Coconut] or ZI013_CSP = 44 [Sugar Cane] or ZI013_CSP = 45 [Cotton] or ZI013_CSP = 46 [Bamboo] or ZI013_CSP = 48 [Timber]) |
| <b>Label String:</b>                 | [ZI013_CSP] "plantation"                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                                                                                                                                                                                                                                                                                                                                     |
| <b>Label Description:</b>            | Industrial Farm / unknown (point)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Additional Labeling Criteria:</b> | (ZI013_CSP = 999 [Other] or ZI013_CSP = -999999 [No Information])                                                                                                                                                                                                                                                                                                                                                             |



**Inland\_Waterbody (BH082) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_Lake_Intermittent                                                                                                             |                                  |                                     |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                 |                                  |                                     |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |                                  |                                     |
| <b>Element Name:</b> Cyan_LP15Fill                                                                             |                                                                                                                                                                   | <b>Element Reference:</b> A00021 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Diagonal Line Fill - 35% coverage, 40L, 45 degree angle lines.                        |                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_LP15Fill in Annex I<br><b>Screen Angle:</b> 45 degrees<br><b>Note:</b> Line Pattern #15              |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                        |                                                                                                                                                                   | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                   |                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                    | <b>Dash Length:</b> 2.0mm        | <b>Dash Spacing:</b> 0.5mm          |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                   | Criteria                                                                                  |
|----------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| R003188  | Inland Waterbody / natural shoreline / intermittent (surface) | (MNS = 1000 [False] or MNS = -999999 [No Information]) and (ZI024_HYP = 2 [Intermittent]) |

**Label Information**

|                                                                   |                                                                                                                                                                               |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Inland Waterbody / fresh (surface)<br>(ZI024_SCC = 11 [Fresh] or ZI024_SCC = 998 [Not Applicable] or ZI024_SCC = -999999 [No Information])                                    |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA]<br>37<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)                                                                                                        |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Inland Waterbody / alkaline (surface)<br>(ZI024_SCC = 1 [Alkaline])                                                                                                           |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA]<br>"(alkaline)"<br>37,33<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)<br>33 (Cyan, Condensed, Italic, 7-16 pt, Lower case)                                |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Inland Waterbody / salt (surface)<br>(ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA]<br>"(salt)"<br>37,33<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)<br>33 (Cyan, Condensed, Italic, 7-16 pt, Lower case)                                    |

**Inland\_Waterbody (BH082) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_Lake_Dry                                                                                                                      |                                  |                                     |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                 |                                  |                                     |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |                                  |                                     |
| <b>Element Name:</b> Cyan_DryDrainageFill                                                                      |                                                                                                                                                                   | <b>Element Reference:</b> A00020 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Dry Drainage Fill                                                                     |                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_DryDrainageFill in Annex I<br><b>Note:</b> Area Pattern #95                                          |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                        |                                                                                                                                                                   | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                   |                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                    | <b>Dash Length:</b> 2.0mm        | <b>Dash Spacing:</b> 0.5mm          |

**Symbol Portrayal Rules**

| Rule Ref | Description                                          | Criteria                                                                         |
|----------|------------------------------------------------------|----------------------------------------------------------------------------------|
| R003189  | Inland Waterbody / natural shoreline / dry (surface) | (MNS = 1000 [False] or MNS = -999999 [No Information]) and (ZI024_HYP = 4 [Dry]) |

**Label Information**

|                                      |                                                                                                                                          |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Inland Waterbody / fresh (surface)                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 11 [Fresh] or ZI024_SCC = 998 [Not Applicable] or ZI024_SCC = -999999 [No Information])                                     |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                              |
| <b>Characteristics:</b>              | 37<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)                                                                                  |
| <b>Label Description:</b>            | Inland Waterbody / alkaline (surface)                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 1 [Alkaline])                                                                                                               |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(alkaline)"                                                                                                              |
| <b>Characteristics:</b>              | 37,33<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)<br>33 (Cyan, Condensed, Italic, 7-16 pt, Lower case)                          |
| <b>Label Description:</b>            | Inland Waterbody / salt (surface)                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(salt)"                                                                                                                  |
| <b>Characteristics:</b>              | 37,33<br>37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)<br>33 (Cyan, Condensed, Italic, 7-16 pt, Lower case)                          |

**Inland\_Waterbody (BH082) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                                                |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_Reservoir_Perennial                                                                                                        |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                  |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                        |                                                                                                                                                                | <b>Element Reference:</b> A00007 |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                            |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan-31                                                                                    | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                                | <b>Screen Angle:</b> 45 degrees                                                                                                                                |                                  |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                      |                                                                                                                                                                | <b>Element Reference:</b> L00007 |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                          |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                                                                       |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                          | Criteria                                                                                                                                             |
|----------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003190  | Inland Waterbody / man-made shoreline / perennial / usable (surface) | (MNS = 1001 [True]) and (ZI024_HYP = 1 [Perennial] or ZI024_HYP = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) |

**Label Information**

|                                      |                                                     |
|--------------------------------------|-----------------------------------------------------|
| <b>Label Description:</b>            | Inland Waterbody / named (surface)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                                 |
| <b>Label String:</b>                 | [ZI005_FNA]                                         |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                                                                   |  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_Reservoir_IntermittentDry                                                                                                     |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                 |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |  |

**Inland\_Waterbody (BH082) (continued)**

Surface

|                                                                                         |                                                                                                                                                      |                                  |                                     |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_LP15Fill                                                      |                                                                                                                                                      | <b>Element Reference:</b> A00021 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Diagonal Line Fill - 35% coverage, 40L, 45 degree angle lines. |                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_LP15Fill in Annex I<br><b>Screen Angle:</b> 45 degrees<br><b>Note:</b> Line Pattern #15 |                                  |                                     |
| <b>Element Name:</b> Black_0.1mm-2mmLenDash-0.5mmGapLine                                |                                                                                                                                                      | <b>Element Reference:</b> L00029 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 2.0mm dash, 0.5mm gap)           |                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Black                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                      | Criteria                                                                                                                                                                                              |
|----------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003191  | Inland Waterbody / man-made shoreline / intermittent, dry / not usable (surface) | (MNS = 1001 [True]) and (ZI024_HYP = 2 [Intermittent] or ZI024_HYP = 4 [Dry] or PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |

**Label Information**

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Inland Waterbody / construction (surface)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                                  |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(construction)"                                                                           |
| <b>Characteristics:</b>              | 5,35<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)<br>35 (Black, Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Inland Waterbody / not usable (surface)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])              |
| <b>Label String:</b>                 | [ZI005_FNA]<br>"(not usable)"                                                                             |
| <b>Characteristics:</b>              | 5,35<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)<br>35 (Black, Condensed, Italic, 6 pt, Lower case) |

**Symbol Sample**



**Installation (AL011)**

Surface

| Symbol Information                                                                                               |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Installation                                                               |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria |
|----------|------------------------------|----------|
| R003580  | Installation / all (surface) | ALL      |

**Installation (AL011) (continued)**

Surface

**Label Information**

**Label Description:** Installation / all (surface)  
**Additional Labeling Criteria:** N/A

**Label String:** "Installation"  
**Characteristics:** 1  
 1 (Black, Regular, 6 pt, Lower case)

**Symbol Sample**

 Installation

Point

**Symbol Information**

|                                                                                                                |                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Installation                                                                         |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                           | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                           |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                                        |                                  |
|                                                                                                                | <b>Length:</b> 0.8mm                                                                                                      |                                  |
|                                                                                                                | <b>Note:</b> Square is filled                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria |
|----------|----------------------------|----------|
| R003581  | Installation / all (point) | ALL      |

**Label Information**

**Label Description:** Installation / all (point)  
**Additional Labeling Criteria:** N/A

**Label String:** "Installation"  
**Characteristics:** 1  
 1 (Black, Regular, 6 pt, Lower case)

**Symbol Sample**

■ Installation

**International\_Date\_Line (FA110)**

Curve

**International\_Date\_Line (FA110) (continued)**

Curve

| Symbol Information                                                                |                                                     |                                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------|
|  | Symbol Graphic Name: LN_Black_InternationalDateLine |                                        |
|                                                                                   | Apply Label to Symbol: Yes                          |                                        |
|                                                                                   | Symbol Placement Instructions:                      |                                        |
| Element Name: Black_0.5mm-6mmLenDash-3.8mmGapLine                                 | Element Reference: L00137                           | Element Type: Line - Styled            |
| Description: Black 0.5mm Dash Line (0.5mm wt, 6.0mm dash, 3.8mm gap)              |                                                     |                                        |
| Color Token: Black                                                                | Parameters:                                         |                                        |
|                                                                                   | Lineweight: 0.5mm                                   | Dash Length: 6.0mm Dash Spacing: 3.8mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                           | Criteria |
|----------|---------------------------------------|----------|
| R003674  | International Date Line / all (curve) | ALL      |

**Label Information**

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Label Description:            | International Date Line / all (curve)                                                                         |
| Additional Labeling Criteria: | N/A                                                                                                           |
| Label String:                 | "INTERNATIONAL DATE LINE" "(Monday)"<br>"(Sunday)"                                                            |
| Characteristics:              | 21,42,42,42<br>42,42,42<br>21 (Black, Condensed, 8 pt, Upper case)<br>42 (Black, Condensed, 8 pt, Mixed case) |

**Symbol Sample**

INTERNATIONAL DATE LINE (Monday)  
(Sunday)

**Island (BA030)**

Surface

| Symbol Information                                                                  |                                                                                |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | Symbol Graphic Name: AR_Island                                                 |
|                                                                                     | Apply Label to Symbol: Yes                                                     |
|                                                                                     | Symbol Placement Instructions: Dynamic text label only. No Graphic Parameters. |
| AREA LABEL ONLY                                                                     |                                                                                |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003164  | Island / all (surface) | ALL      |

**Label Information**

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Label Description:            | Island / all (surface)                                 |
| Additional Labeling Criteria: | N/A                                                    |
| Label String:                 | [ZI005_FNA]                                            |
| Characteristics:              | 12<br>12 (Black, Regular, Italic 10-16 pt, Upper case) |

**Island (BA030) (continued)**

Surface

Symbol Sample

*KODIAK ISLAND*

Point

Symbol Information

|                                          |                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------|
| Symbol Graphic<br><br><i>[ZI005_FNA]</i> | Symbol Graphic Name: PT_Island                                                 |
|                                          | Apply Label to Symbol: Yes                                                     |
|                                          | Symbol Placement Instructions: Dynamic text label only. No Graphic Parameters. |
| POINT LABEL ONLY                         |                                                                                |

Symbol Portrayal Rules

| Rule Ref | Description          | Criteria |
|----------|----------------------|----------|
| R003673  | Island / all (point) | ALL      |

Label Information

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Island / all (point)                                   |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [ZI005_FNA]                                            |
| <b>Characteristics:</b>              | 6<br>6 (Black, Condensed, Italic, 6-10 pt, Mixed case) |

Symbol Sample

*Maui*

**Isogonic\_Line (No Code)**

Curve

Symbol Information

|                                                                                                           |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Symbol Graphic<br><br> | Symbol Graphic Name: LN_Blue072_IsogonicLine                                                        |
|                                                                                                           | Apply Label to Symbol: Yes                                                                          |
|                                                                                                           | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature.      |
| <b>Element Name:</b> Blue072_0.3mm-3.8mmLenDash-1.2mmGapLine                                              |                                                                                                     |
| <b>Element Reference:</b> L00324                                                                          |                                                                                                     |
| <b>Element Type:</b> Line - Styled                                                                        |                                                                                                     |
| <b>Description:</b> Blue072 Dashed Line (0.3mm wt, 3.8mm dash, 1.2mm gap)                                 |                                                                                                     |
| <b>Color Token:</b> Blue072                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 3.8mm <b>Dash Spacing:</b> 1.2mm |

Symbol Portrayal Rules

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003302  | Isogonic Line / all (curve) | ALL      |

Label Information

**Isogonic\_Line (No Code) (continued)**

Curve

**Label Description:** Isogonic Line / all (curve)  
**Additional Labeling Criteria:** N/A

**Label String:** Magnetic Variation  
**Characteristics:** 70  
 70 (Blue072, Regular, Bold, Italic, 12 pt, Upper case)

**Symbol Sample**

— — — 7°45'W — — —

**Land\_Aerodrome (GB005)**

Surface

| Symbol Information                                                                |                                                                                                                                                                |                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Blue072_LandAerodrome                                                                                                           |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                  |
| <b>Element Name:</b> Blue072-54_ScreenFill                                        |                                                                                                                                                                | <b>Element Reference:</b> A00123 |
| <b>Description:</b> Blue072-54 Area Fill (Blue072 54% screen, 90 degree angle)    |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Blue072-54                                                    | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                   | <b>Screen Angle:</b> 90 degrees                                                                                                                                |                                  |
| <b>Element Name:</b> Blue072_0.3mmSolidLine                                       |                                                                                                                                                                | <b>Element Reference:</b> L00355 |
| <b>Description:</b> Blue072 0.3mm Solid Line (0.3mm wt)                           |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Blue072                                                       | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                   | <b>Lineweight:</b> 0.3mm                                                                                                                                       |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                           |
|----------|----------------------------------------|----------------------------------------------------|
| R003317  | Land Aerodrome / large major (surface) | (ARA >= 25000000) and (GB055 [Runway].LZN >= 1220) |

**Label Information**

**Label Description:** Land Aerodrome / active (surface)  
**Additional Labeling Criteria:** (ASY = 1 [A - Active Civilian] or ASY = 2 [B - Active Joint (Civilian/Military)] or ASY = 3 [C - Active Military] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 6 [F - Highway Strip] or ASY = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** [Z1005\_FNA]  
**Characteristics:** 29  
 29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / abandoned (surface)  
**Additional Labeling Criteria:** (ASY = 5 [E - Abandoned or Closed (with usable runways or landing areas)]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** "ABANDONED"  
 [Z1005\_FNA]  
**Characteristics:** 29,29  
 29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / unusable (surface)  
**Additional Labeling Criteria:** (ASY = 7 [G - Unusable for landing or take-off] or ASY = 12 [X - Decoy]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Land\_Aerodrome (GB005) (continued)**

Surface

**Label String:** "NOT USABLE"  
[ZI005\_FNA]  
**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "CONSTRUCTION"  
[ZI005\_FNA]  
**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Symbol Sample**



Land Aerodrome with Runway info:



Land Aerodrome with Runway info:



**Symbol Information**

|                                                                                   |                                                                                                                                                                                                       |                                  |                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Blue072_Aerodrome_Major                                                                                                                                                |                                  |                                     |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                     |                                  |                                     |
|                                                                                   | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature and adjusted to match the ARP coordinate listed in the AAFIF. Origin: Center of filled circle |                                  |                                     |
| <b>Element Name:</b> Blue072_5.0mmCircleFilled                                    |                                                                                                                                                                                                       | <b>Element Reference:</b> P00217 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Blue072 5.0mm diameter filled circle                          |                                                                                                                                                                                                       |                                  |                                     |
| <b>Color Token:</b> Blue072                                                       | <b>Parameters:</b><br><b>Diameter:</b> 5.0mm<br><b>Note:</b> Circle is filled                                                                                                                         |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                                 |
|----------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| R003000  | Land Aerodrome / small major (surface) | ((ARA >= 25000000) and (GB055 [Runway].LZN >= 457 and GB055 [Runway].LZN < 1220)) or ((ARA < 25000000) and (GB055 [Runway].LZN >= 1220)) |

**Label Information**

**Label Description:** Land Aerodrome / active (surface)  
**Additional Labeling Criteria:** (ASY = 1 [A - Active Civilian] or ASY = 2 [B - Active Joint (Civilian/Military)] or ASY = 3 [C - Active Military] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 6 [F - Highway Strip] or ASY = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** [ZI005\_FNA]  
**Characteristics:** 29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / abandoned (surface)  
**Additional Labeling Criteria:** (ASY = 5 [E - Abandoned or Closed (with usable runways or landing areas)]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** "ABANDONED"  
[ZI005\_FNA]  
**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / unusable (surface)  
**Additional Labeling Criteria:** (ASY = 7 [G - Unusable for landing or take-off] or ASY = 12 [X - Decoy]) and (PCF = 2 [Intact] or PCF = 3

**Land\_Aerodrome (GB005) (continued)**

Surface

[Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** "NOT USABLE"  
[ZI005\_FNA]

**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "CONSTRUCTION"  
[ZI005\_FNA]

**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Symbol Sample**



Land Aerodrome with Runway info:  
UNCHON UP/25/s  
467

Land Aerodrome with Runway info:  
TAE TAN/82  
121

**Symbol Information**

|                                                                                                                |                                                                                                                                                                                                     |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_4.25Aerodrome_Minor                                                                                                                                          |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                   |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature and adjusted to match the ARP coordinate listed in the AAFIF. Origin: Center of open circle |                                  |
| <b>Element Name:</b> Blue072_4.25mmOpenCircle                                                                  |                                                                                                                                                                                                     | <b>Element Reference:</b> P00236 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                                                                                                     |                                  |
| <b>Description:</b> Blue072 4.25mm diameter open circle with 0.6mm lineweight                                  |                                                                                                                                                                                                     |                                  |
| <b>Color Token:</b> Blue072                                                                                    | <b>Parameters:</b>                                                                                                                                                                                  |                                  |
|                                                                                                                | <b>Diameter:</b> 4.25mm                                                                                                                                                                             |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.6mm                                                                                                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria                                                |
|----------|----------------------------------|---------------------------------------------------------|
| R003675  | Land Aerodrome / minor (surface) | (GB055 [Runway].LZN < 457) or (no GB055 [Runway] exist) |

**Label Information**

**Label Description:** Land Aerodrome / active (surface)  
**Additional Labeling Criteria:** (ASY = 1 [A - Active Civilian] or ASY = 2 [B - Active Joint (Civilian/Military)] or ASY = 3 [C - Active Military] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = 6 [F - Highway Strip] or ASY = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** [ZI005\_FNA]  
**Characteristics:** 29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / abandoned (surface)  
**Additional Labeling Criteria:** (ASY = 5 [E - Abandoned or Closed (with usable runways or landing areas)]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** "ABANDONED"  
[ZI005\_FNA]  
**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / unusable (surface)  
**Additional Labeling Criteria:** (ASY = 7 [G - Unusable for landing or take-off] or ASY = 12 [X - Decoy]) and (PCF = 2 [Intact] or PCF = 3

**Land\_Aerodrome (GB005) (continued)**

Surface

[Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])

**Label String:** "NOT USABLE"  
[ZI005\_FNA]

**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Label Description:** Land Aerodrome / construction (surface)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** "CONSTRUCTION"  
[ZI005\_FNA]

**Characteristics:** 29,29  
29 (Blue072, Condensed, 7 pt, Upper case)

**Symbol Sample**



**Land\_Subject\_To\_Inundation (BH090)**

Surface

| Symbol Information                                                                                              |                                                                                                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_LSI_Natural                                                                  |                                     |
|                                                                                                                 | <b>Apply Label to Symbol:</b> No                                                                                 |                                     |
|                                                                                                                 | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                      |                                     |
| <b>Element Name:</b> Cyan_LSIFill                                                                               | <b>Element Reference:</b> A00015                                                                                 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Land Subject to Inundation Fill                                                        |                                                                                                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                        | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_LSIFill in Annex I<br><b>Note:</b> Area Pattern #10 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                           | Criteria                                               |
|----------|-------------------------------------------------------|--------------------------------------------------------|
| R003192  | Land Subject To Inundation / not controlled (surface) | (CNS = 1000 [False] or CNS = -999999 [No Information]) |

**Symbol Sample**



| Symbol Information                                                                                               |                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_LSI_Controlled                                                                                                                |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                                                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |

**Land\_Subject\_To\_Inundation (BH090) (continued)**

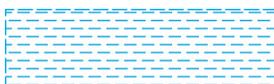
Surface

|                                                                              |                                                                                                                  |                                  |                                     |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_LSIFill                                            |                                                                                                                  | <b>Element Reference:</b> A00015 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Land Subject to Inundation Fill                     |                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_LSIFill in Annex I<br><b>Note:</b> Area Pattern #10 |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                      |                                                                                                                  | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                   | <b>Dash Length:</b> 2.0mm        | <b>Dash Spacing:</b> 0.5mm          |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria            |
|----------|---------------------------------------------------|---------------------|
| R003193  | Land Subject To Inundation / controlled (surface) | (CNS = 1001 [True]) |

**Symbol Sample**



**Land\_Water\_Boundary (BA010)**

Curve

| Symbol Information                                   |                                                                                                       |                                  |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                            | <b>Symbol Graphic Name:</b> LN_Cyan_LandWaterBoundary_Dry                                             |                                  |
|                                                      | <b>Apply Label to Symbol:</b> No                                                                      |                                  |
|                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Cyan_0.2mmSolidLine             |                                                                                                       | <b>Element Reference:</b> L00015 |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt) |                                                                                                       |                                  |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                        |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                                                                                                                                                                                                                               |
|----------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003162  | Land Water Boundary / other (curve) | (SLT = 10 [Stony] or SLT = 11 [Building Rubble] or SLT = 12 [Erosion Rubble] or SLT = 13 [Sandy] or SLT = 14 [Shingly] or SLT = 16 [Coral] or SLT = 17 [Ice] or SLT = 18 [Mud] or SLT = 999 [Other] or SLT = -999999 [No Information]) |

**Symbol Sample**



| Symbol Information        |                                                                                                       |  |
|---------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Cyan_LandWaterBoundary_Wet                                             |  |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |  |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |

**Land\_Water\_Boundary (BA010) (continued)**

Curve

|                                                                              |                                         |                                                         |
|------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                      | <b>Element Reference:</b> L00041        | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                         |                                                         |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br>Lineweight: 0.2mm | <b>Dash Length:</b> 2.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                                 |
|----------|-----------------------------------------------|------------------------------------------|
| R003163  | Land Water Boundary / mangrove, marsh (curve) | (SLT = 6 [Mangrove] or SLT = 8 [Marshy]) |

**Symbol Sample**



**Launch\_Pad (GB040)**

Point

| Symbol Information                                                                                         |                                                             |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_LaunchPad              |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                           |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of dot |

|                                                                                                                                    |                                                              |                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       | <b>Element Reference:</b> P00010                             | <b>Element Type:</b> Point - Simple                              |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                              |                                                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br>Diameter: 1.25mm<br>Lineweight: 0.15mm | <b>Note:</b> 0.3mm diameter dot in the center of the open circle |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria   |
|----------|--------------------------------------|------------|
| R003315  | Launch Pad / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Launch Pad / all (point)                    |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Launch pad"                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Light\_Vessel (BC070)**

Point

**Light\_Vessel (BC070) (continued)**

Point

| Symbol Information                                                                                         |                                                                                                                |                                  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_LightVessel                                                               |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                            |                                  |
| <b>Element Name:</b> Black_LightVessel                                                                     |                                                                                                                | <b>Element Reference:</b> P00192 |
| <b>Description:</b> Black light vessel                                                                     |                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_LightVessel in Annex H for detailed drawing instructions |                                  |

| Symbol Portrayal Rules |                                        |            |
|------------------------|----------------------------------------|------------|
| Rule Ref               | Description                            | Criteria   |
| R003582                | Light Vessel / non-obstruction (point) | (HGT < 46) |

| Symbol Sample                                                                     |  |  |
|-----------------------------------------------------------------------------------|--|--|
|  |  |  |

**Lighthouse (BC050)**

Point

| Symbol Information                                                                                           |                                                                                                                |                                  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Lighthouse                                                                |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                               |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of the dot                                                |                                  |
| <b>Element Name:</b> Black_Lighthouse                                                                        |                                                                                                                | <b>Element Reference:</b> P00135 |
| <b>Description:</b> Black lighthouse                                                                         |                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Lighthouse in Annex H for detailed drawing instructions. |                                  |

| Symbol Portrayal Rules |                                      |            |
|------------------------|--------------------------------------|------------|
| Rule Ref               | Description                          | Criteria   |
| R003171                | Lighthouse / non-obstruction (point) | (HGT < 46) |

| Symbol Sample                                                                       |  |  |
|-------------------------------------------------------------------------------------|--|--|
|  |  |  |

**Lock (BI030)**

Point

**Lock (BI030) (continued)**

Point

| Symbol Information                                                                                                                            |                                                                                                                                                                                         |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                    | <b>Symbol Graphic Name:</b> PT_Black_Lock                                                                                                                                               |                                  |
|                                                                                                                                               | <b>Apply Label to Symbol:</b> No                                                                                                                                                        |                                  |
|                                                                                                                                               | <b>Symbol Placement Instructions:</b> Apex of each "V" is centered on the drain and points upstream. Origin: Center of symbol                                                           |                                  |
| <b>Element Name:</b> Black_PT_Lock                                                                                                            |                                                                                                                                                                                         | <b>Element Reference:</b> P00035 |
| <b>Element Type:</b> Point - Shape                                                                                                            |                                                                                                                                                                                         |                                  |
| <b>Description:</b> Two black "V" spaced 0.5mm apart with length of each leg 0.8mm and a 0.1mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                         |                                  |
| <b>Color Token:</b> Black                                                                                                                     | <b>Parameters:</b><br><b>Length:</b> 0.8mm <b>Lineweight:</b> 0.1mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees |                                  |

| Symbol Portrayal Rules |                    |          |
|------------------------|--------------------|----------|
| Rule Ref               | Description        | Criteria |
| R000223                | Lock / all (point) | ALL      |

| Symbol Sample |
|---------------|
| «             |

**Maritime\_Navigation\_Light (BC040 - Maritime Data Store)**

Point

| Symbol Information                                                                                           |                                                                               |                                  |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_MarineNavigationLight                  |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                             |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle         |                                  |
| <b>Element Name:</b> Blue072_1.5mmCircleFilled                                                               |                                                                               | <b>Element Reference:</b> P00220 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                               |                                  |
| <b>Description:</b> Blue072 1.5mm diameter filled circle                                                     |                                                                               |                                  |
| <b>Color Token:</b> Blue072                                                                                  | <b>Parameters:</b><br><b>Diameter:</b> 1.5mm<br><b>Note:</b> Circle is filled |                                  |

| Symbol Portrayal Rules |                                         |          |
|------------------------|-----------------------------------------|----------|
| Rule Ref               | Description                             | Criteria |
| R003053                | Maritime Navigation Light / all (point) | ALL      |

**Label Information**

**Label Description:** Maritime Navigation Light / flashing (point)  
**Additional Labeling Criteria:** (CHA = 1 [Alternating] or CHA = 4 [Ultra Quick-flashing] or CHA = 6 [Fixed and Flashing] or CHA = 8 [Flashing] or CHA = 11 [Interrupted Quick-flashing] or CHA = 12 [Interrupted Ultra Quick-flashing] or CHA = 13 [Interrupted Very Quick-flashing] or CHA = 14 [Isophase] or CHA = 15 [Long-flashing] or CHA = 16 [Morse Code] or CHA = 17 [Occulting] or CHA = 28 [Group Quick-flashing] or CHA = 29 [Group Very Quick-flashing] or CHA = 44 [Quick-flashing] or CHA = 45 [Very Quick-flashing] or CHA = 46 [Flashing with Long-flash] or CHA = 47 [Occulting Flashing] or CHA = 48 [Fixed Long-flashing] or CHA = 49 [Occulting Alternating] or CHA = 50 [Long-flashing Alternating] or CHA = 51 [Flashing Alternating] or CHA = 57 [Quick-flashing with Long-flash] or CHA = 58 [Very Quick-flashing with Long-flash] or CHA = 59 [Ultra Quick-flashing with Long-flash] or CHA = 60 [Fixed with Alternating Flashing])

**Label String:** "FL"

**Maritime\_Navigation\_Light (BC040 - Maritime Data Store) (continued)**

Point

**Characteristics:** 29  
29 (Blue072, Condensed, 7 pt, Upper case)

---

**Label Description:** Maritime Navigation Light / fixed (point)  
**Additional Labeling Criteria:** (CHA = 5 [Fixed])

---

**Label String:** "F"  
**Characteristics:** 29  
29 (Blue072, Condensed, 7 pt, Upper case)

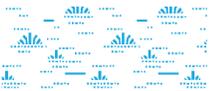
Symbol Sample



**Marsh (ED010)**

Surface

Symbol Information

|                                                                                   |                                                                                                                    |                                     |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Cyan_Marsh                                                                          |                                     |
|                                                                                   | <b>Apply Label to Symbol:</b> No                                                                                   |                                     |
|                                                                                   | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                        |                                     |
| <b>Element Name:</b> Cyan_AP12_Fill                                               | <b>Element Reference:</b> A00018                                                                                   | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Cyan Bog, Marsh Fill                                          |                                                                                                                    |                                     |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_AP12_Fill in Annex I<br><b>Note:</b> Area Pattern #12 |                                     |

Symbol Portrayal Rules

| Rule Ref | Description           | Criteria |
|----------|-----------------------|----------|
| R003312  | Marsh / all (surface) | ALL      |

Symbol Sample



**Memorial\_Monument (AL130)**

Point

Symbol Information

|                                                                                     |                                                                                                                      |                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_Monument                                                                        |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                    |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of triangle                                                     |                                    |
| <b>Element Name:</b> Black_MemorialMonument                                         | <b>Element Reference:</b> P00136                                                                                     | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black memorial monument                                         |                                                                                                                      |                                    |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br><b>Note:</b> See Element: Black_MemorialMonument in Annex H for detailed drawing instructions. |                                    |

Symbol Portrayal Rules

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Memorial\_Monument (AL130) (continued)**

Point

R003087 Memorial Monument / non-obstruction / landmark (point) (HGT < 46) and (LMC = 1001 [True])

**Label Information**

**Label Description:** Memorial Monument / named (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Military\_Installation (SU001)**

Surface

**Symbol Information**

|                                                                                   |                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Black_MilitaryInstallation                                                       |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                               |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |

|                                                                               |                                                |                                                         |
|-------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                    | <b>Element Reference:</b> L00210               | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap) |                                                |                                                         |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                           | Criteria |
|----------|---------------------------------------|----------|
| R003324  | Military Installation / all (surface) | ALL      |

**Label Information**

**Label Description:** Military Installation / named / usable (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information") and (PCF = 2 [Intact] or PCF = -999999 [No Information])  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Military Installation / unnamed / usable (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (PCF = 2 [Intact] or PCF = -999999 [No Information])  
**Label String:** "Military"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Military Installation / named / construction (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information") and (PCF = 1 [Construction])  
**Label String:** [ZI005\_FNA]  
 "(construction)"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Military\_Installation (SU001) (continued)**

Surface

**Label Description:** Military Installation / unnamed / construction (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (PCF = 1 [Construction])

**Label String:** "Military  
(construction)"

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Military Installation / named / not usable (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information") and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** [ZI005\_FNA] "(not usable)"

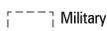
**Characteristics:** 1,22  
1 (Black, Condensed, 6 pt, Mixed case)  
22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Military Installation / unnamed / not usable (surface)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "Military (not usable)"

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

| Symbol Information                                                                                               |                                                                             |                                     |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_MilitaryInstallation                   |                                     |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                           |                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                     |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     | <b>Element Reference:</b> P00006                                            | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                             |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria |
|----------|-------------------------------------|----------|
| R003325  | Military Installation / all (point) | ALL      |

**Label Information**

**Label Description:** Military Installation / named (point)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information")

**Label String:** [ZI005\_FNA]

**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Military Installation / unnamed (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information")

**Label String:** "Military"

**Characteristics:** 1

**Military\_Installation (SU001) (continued)**

Point

1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

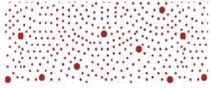
■ Military

■ Fort Johnston

**Moraine (BJ020)**

Surface

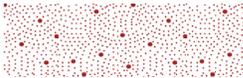
**Symbol Information**

|                                                                                   |                                                                                                                              |                                  |                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_Moraine                                                                          |                                  |                                     |
|                                                                                   | <b>Apply Label to Symbol:</b> No                                                                                             |                                  |                                     |
|                                                                                   | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                  |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_MoraineFill                                     |                                                                                                                              | <b>Element Reference:</b> A00022 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Moraine Fill                                     |                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                  | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_MoraineFill in Annex I<br><b>Note:</b> Area Pattern #99 |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003227  | Moraine / all (surface) | ALL      |

**Symbol Sample**



**Mountain\_Pass (DB150)**

Point

**Symbol Information**

|                                                                                     |                                                                                                                    |                                  |                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_MountainPass                                                                  |                                  |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                  |                                  |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of symbol |                                  |                                    |
| <b>Element Name:</b> Black_MountainPass                                             |                                                                                                                    | <b>Element Reference:</b> P00029 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black mountain pass                                             |                                                                                                                    |                                  |                                    |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br><b>Note:</b> See Element: Black_MountainPass in Annex H for detailed drawing instructions.   |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003255  | Mountain Pass / all (point) | ALL      |

**Label Information**

**Label Description:** Mountain Pass / all (point)



**Munition\_Storage\_Facility (AM065) (continued)**

**Surface**

**Label Description:** Munition Storage Facility / above ground / not usable (surface)  
**Additional Labeling Criteria:** (LUN = 1000 [False] or LUN = -999999 [No Information]) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "Munition storage (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

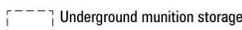
**Label Description:** Munition Storage Facility / underground / not usable (surface)  
**Additional Labeling Criteria:** (LUN = 1001 [True]) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** Underground munition storage (not usable)"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Munition storage



Underground munition storage

**Point**

| Symbol Information                                                                                             |                                                                       |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_MunitionStorageFacility          |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                    |                                  |
|                                                                                                                | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                                | <b>Note:</b> Square is filled                                         |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria |
|----------|-----------------------------------------|----------|
| R003590  | Munition Storage Facility / all (point) | ALL      |

**Label Information**

**Label Description:** Munition Storage Facility / above ground (point)  
**Additional Labeling Criteria:** (LUN = 1000 [False] or LUN = -999999 [No Information])

**Label String:** "Munition storage"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Munition Storage Facility / underground (point)  
**Additional Labeling Criteria:** (LUN = 1001 [True])

**Label String:** "Underground munition storage"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Munition\_Storage\_Facility (AM065) (continued)**

Point

**Symbol Sample**

- Munition storage
- Underground munition storage

**Named\_Location (ZD040)**

Point

**Symbol Information**

|                                                                                                         |                                                                                |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Symbol Graphic<br><br> | Symbol Graphic Name: PT_NamedLocation                                          |
|                                                                                                         | Apply Label to Symbol: Yes                                                     |
|                                                                                                         | Symbol Placement Instructions: Dynamic text label only. No Graphic Parameters. |

POINT LABEL ONLY

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria                                                                                                            |
|----------|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| R003323  | Named Location / all (point) | (NLT = 1 [Area] or NLT = 2 [Locality] or NLT = 3 [Region] or NLT = 4 [Arctic Land] or NLT = 5 [Populated Locality]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Named Location / all (point)                           |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [ZI005_FNA]                                            |
| <b>Characteristics:</b>              | 45<br>45 (Black, Light Condensed, 6-16 pt, Upper case) |

**Symbol Sample**

BADLANDS

**Natural\_Pool (BH170)**

Point

**Symbol Information**

|                                                                                                           |                                                                |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Symbol Graphic<br><br> | Symbol Graphic Name: PT_Cyan_NaturalPool_Perennial             |
|                                                                                                           | Apply Label to Symbol: Yes                                     |
|                                                                                                           | Symbol Placement Instructions: Origin: Center of filled circle |

|                                           |                                  |                                    |
|-------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_SpringPerennial | <b>Element Reference:</b> P00026 | <b>Element Type:</b> Point - Shape |
|-------------------------------------------|----------------------------------|------------------------------------|

**Description:** Cyan spring (perennial)

|                          |                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Cyan | <b>Parameters:</b><br>Orientation: Tail of feature is downstream to drainage or to the lines of latitude when drain is not present<br>Note: See Element: Cyan_SpringPerennial in Annex H for detailed drawing instructions. |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Symbol Portrayal Rules**

| Rule Ref | Description                                 | Criteria                                                                                    |
|----------|---------------------------------------------|---------------------------------------------------------------------------------------------|
| R003210  | Natural Pool / perennial / landmark (point) | (ZI024_HYP = 1 [Perennial] or ZI024_HYP = -999999 [No Information]) and (LMC = 1001 [True]) |

**Natural\_Pool (BH170) (continued)**

**Point**

**Label Information**

**Label Description:** Natural Pool / alkaline (point)  
**Additional Labeling Criteria:** (ZI024\_SCC = 1 [Alkaline])

**Label String:** "Alkaline"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Natural Pool / salt (point)  
**Additional Labeling Criteria:** (ZI024\_SCC = 4 [Mineral] or ZI024\_SCC = 10 [Saline] or ZI024\_SCC = 12 [Brackish] or ZI024\_SCC = 13 [Seawater] or ZI024\_SCC = 14 [Brine])

**Label String:** "Salt"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                                                                                                                              |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_NaturalPool_IntermittentDry                                                                                                                                                                              |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                            |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                                                                                                                                                          |                                  |
| <b>Element Name:</b> Cyan_SpringIntermittent                                                                   |                                                                                                                                                                                                                                              | <b>Element Reference:</b> P00032 |
| <b>Description:</b> Cyan spring (intermittent)                                                                 |                                                                                                                                                                                                                                              |                                  |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Orientation:</b> Tail of feature is downstream to drainage or to the lines of latitude when drain is not present<br><b>Note:</b> See Element: Cyan_SpringIntermittent in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                         | Criteria                                                                      |
|----------|-----------------------------------------------------|-------------------------------------------------------------------------------|
| R003211  | Natural Pool / intermittent, dry / landmark (point) | (ZI024_HYP = 2 [Intermittent] or ZI024_HYP = 4 [Dry]) and (LMC = 1001 [True]) |

**Label Information**

**Label Description:** Natural Pool / alkaline (point)  
**Additional Labeling Criteria:** (ZI024\_SCC = 1 [Alkaline])

**Label String:** "Alkaline"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Natural Pool / salt (point)  
**Additional Labeling Criteria:** (ZI024\_SCC = 4 [Mineral] or ZI024\_SCC = 10 [Saline] or ZI024\_SCC = 12 [Brackish] or ZI024\_SCC = 13 [Seawater] or ZI024\_SCC = 14 [Brine])

**Label String:** "Salt"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Natural\_Pool (BH170) (continued)**

Point

**Symbol Sample**



**Non-Directional\_Radio\_Beacon\_(NDB) (GA038 - Aeronautical Data Store)**

Point

| Symbol Information                                                                                                                            |                                                                                                                                                                                                                                                                                      |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                                | <b>Symbol Graphic Name:</b> PT_Blue072_NDB                                                                                                                                                                                                                                           |                                  |
|                                                                                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |
|                                                                                                                                               | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |
| <b>Element Name:</b> Blue072_Navaid_Other                                                                                                     |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00212 |
| <b>Element Type:</b> Point - Simple                                                                                                           |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Description:</b> Blue072 1.9mm diameter open circle with a 0.3mm linewidth and a Blue072 filled 0.4mm diameter filled circle in the center |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Blue072                                                                                                                   | <b>Parameters:</b><br><b>Diameter:</b> 1.9mm<br><b>Lineweight:</b> 0.3mm<br><b>Note:</b> 0.4mm diameter filled circle in the center of the open circle                                                                                                                               |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria   |
|----------|--------------------------------------------|------------|
| R003829  | Non-Directional Radio Beacon (NDB) (point) | (HGT < 46) |

**Label Information**

|                                      |                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Non-Directional Radio Beacon (NDB) (point)                                       |
| <b>Additional Labeling Criteria:</b> | N/A                                                                              |
| <b>Label String:</b>                 | "NDB"<br>[GA032_NSX]                                                             |
| <b>Characteristics:</b>              | 29,29<br>29 (Blue072, Condensed, 7 pt, Upper case)                               |
| <b>Label Description:</b>            | Non-Directional Radio Beacon with Distance Measuring Equipment (NDB/DME) (point) |
| <b>Additional Labeling Criteria:</b> | Used when in conjunction with DME (GA041)                                        |
| <b>Label String:</b>                 | "NDB/DME"<br>[GA032_NSX]                                                         |
| <b>Characteristics:</b>              | 29,29<br>29 (Blue072, Condensed, 7 pt, Upper case)                               |

**Symbol Sample**



**Non-water\_Well (AA054)**

Point

**Non-water\_Well (AA054) (continued)**

Point

| Symbol Information                                                                                         |                                                                           |                                  |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Well_Notwater                        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                         |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of open circle       |                                  |
| <b>Element Name:</b> Black_1.0mmOpenCircle                                                                 |                                                                           | <b>Element Reference:</b> P00009 |
| <b>Element Type:</b> Point - Simple                                                                        |                                                                           |                                  |
| <b>Description:</b> Black 1.0mm diameter open circle with a linewidth of 0.15mm                            |                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Diameter:</b> 1.0mm<br><b>Lineweight:</b> 0.15mm |                                  |

| Symbol Portrayal Rules |                                   |                     |
|------------------------|-----------------------------------|---------------------|
| Rule Ref               | Description                       | Criteria            |
| R003277                | Non Water Well / landmark (point) | (LMC = 1001 [True]) |

| Label Information                    |                                                                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Non Water Well / gas (point)                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PPO = 45 [Gas] or PPO = 62 [Liquefied Petroleum Gas (LPG)] or PPO = 161 [Coalbed Methane] or PPO = 162 [Natural Gas Condensate] or PPO = 163 [Helium]) |
| <b>Label String:</b>                 | "Gas"                                                                                                                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                             |
| <b>Label Description:</b>            | Non Water Well / oil (point)                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (PPO = 83 [Petroleum])                                                                                                                                  |
| <b>Label String:</b>                 | "Oil"                                                                                                                                                   |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                                                             |

| Symbol Sample |       |       |
|---------------|-------|-------|
| o             | o Oil | o Gas |

**Nuclear\_Reactor\_Containment (AD041)**

Surface

| Symbol Information                                                                                           |                                                                                                                                          |                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_NuclearReactorContainment                                                                           |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                     |                                                                                                                                          | <b>Element Reference:</b> A00006 |
| <b>Element Type:</b> Area - Fill                                                                             |                                                                                                                                          |                                  |
| <b>Description:</b> Black Solid Fill                                                                         |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Nuclear\_Reactor\_Containment (AD041) (continued)**

Surface

R003591 Nuclear Reactor Containment / all (surface) ALL

**Label Information**

**Label Description:** Nuclear Reactor Containment / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Containment structure"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Containment structure

Point

**Symbol Information**

|                                                                                                            |                                                                       |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_NuclearReactorContainment        |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                     |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                               |                                                                       |
| <b>Element Reference:</b> P00006                                                                           |                                                                       |
| <b>Element Type:</b> Point - Simple                                                                        |                                                                       |
| <b>Description:</b> Black filled square with all sides 0.8mm                                               |                                                                       |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                    |
|                                                                                                            | <b>Length:</b> 0.8mm                                                  |
|                                                                                                            | <b>Note:</b> Square is filled                                         |

**Symbol Portrayal Rules**

| Rule Ref | Description                                           | Criteria   |
|----------|-------------------------------------------------------|------------|
| R003592  | Nuclear Reactor Containment / non-obstruction (point) | (HGT < 46) |

**Label Information**

**Label Description:** Nuclear Reactor Containment / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Containment structure"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Containment structure

**Oasis (EC020)**

Surface

Oasis (EC020) (continued)

Surface

| Symbol Information                                                                                                                           |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                   | <b>Symbol Graphic Name:</b> AR_Lt-Green_Oasis                                                                   |                                  |
|                                                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Lt-Green_0.2mmSolidLine                                                                                                 |                                                                                                                 | <b>Element Reference:</b> L00354 |
| <b>Element Type:</b> Line - Simple                                                                                                           |                                                                                                                 |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.2mm Solid Line (0.2mm wt) |                                                                                                                 |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                  |                                  |

| Symbol Portrayal Rules |                       |          |
|------------------------|-----------------------|----------|
| Rule Ref               | Description           | Criteria |
| R003310                | Oasis / all (surface) | ALL      |

| Label Information                    |                                                |
|--------------------------------------|------------------------------------------------|
| <b>Label Description:</b>            | Oasis / all (surface)                          |
| <b>Additional Labeling Criteria:</b> | N/A                                            |
| <b>Label String:</b>                 | "Oasis"                                        |
| <b>Characteristics:</b>              | 3<br>3 (Black, Condensed, 6-16 pt, Mixed case) |

| Symbol Sample                                                                       |       |
|-------------------------------------------------------------------------------------|-------|
|  | Oasis |

Point

| Symbol Information                                                                                                                             |                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                   | <b>Symbol Graphic Name:</b> PT_Lt-Green_Oasis                                 |                                  |
|                                                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                             |                                  |
|                                                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle         |                                  |
| <b>Element Name:</b> Lt-Green_1.0mmFilledCircle                                                                                                |                                                                               | <b>Element Reference:</b> P00250 |
| <b>Element Type:</b> Point - Simple                                                                                                            |                                                                               |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 1.0mm diameter filled circle. |                                                                               |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                                   | <b>Parameters:</b><br><b>Diameter:</b> 1.0mm<br><b>Note:</b> Circle is filled |                                  |

| Symbol Portrayal Rules |                     |          |
|------------------------|---------------------|----------|
| Rule Ref               | Description         | Criteria |
| R003654                | Oasis / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Oasis / all (point)                         |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Oasis"                                     |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Oasis (EC020) (continued)**

Point

**Symbol Sample**

● Oasis

**Offshore\_Construction (BD115)**

Point

**Symbol Information**

|                                                                                                                                             |                                                                                                                          |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                              | <b>Symbol Graphic Name:</b> PT_Black_OffshorePlatform                                                                    |                                  |
|                                                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                        |                                  |
|                                                                                                                                             | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of dot          |                                  |
| <b>Element Name:</b> Black_OffshorePlatform                                                                                                 |                                                                                                                          | <b>Element Reference:</b> P00163 |
| <b>Element Type:</b> Point - Simple                                                                                                         |                                                                                                                          |                                  |
| <b>Description:</b> Black open square with all sides 1.2mm with a 0.1mm lineweight and a black filled 0.2mm diameter circle centered inside |                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> 0.2mm diameter dot in the center of the 1.2mm open square |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                | Criteria                            |
|----------|------------------------------------------------------------|-------------------------------------|
| R003176  | Offshore Construction / platform / non-obstruction (point) | (OCS = 1 [Platform]) and (HGT < 46) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Offshore Construction / all (point)         |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Platform"                                  |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**

□ Platform

**Orchard (EA040)**

Surface

**Symbol Information**

|                                                                                                                                          |                                                                                                                                    |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                         | <b>Symbol Graphic Name:</b> AR_Lt-Green_Orchard                                                                                    |                                  |
|                                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                                                                  |                                  |
|                                                                                                                                          | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                        |                                  |
| <b>Element Name:</b> Lt-Green_OrchardPlantationFill                                                                                      |                                                                                                                                    | <b>Element Reference:</b> A00112 |
| <b>Element Type:</b> Area - Pattern                                                                                                      |                                                                                                                                    |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Orchard/Plantation Fill |                                                                                                                                    |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                             | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Lt-Green_OrchardPlantationFill in Annex I<br><b>Note:</b> Area Pattern #74 |                                  |

**Orchard (EA040) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description                  | Criteria        |
|----------|------------------------------|-----------------|
| R003305  | Orchard / standard (surface) | (ARA >= 390625) |

**Label Information**

**Label Description:** Orchard / terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 3 [Terraced])  
**Label String:** "Terraces"  
**Characteristics:** 3  
 3 (Black, Condensed, 6-16 pt, Mixed case)

**Symbol Sample**



**Park (AK120)**

Surface

**Symbol Information**

|                                                                                                             |                                                                                                                 |                                  |                                    |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Park                                                                       |                                  |                                    |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                    |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                  |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                               |                                                                                                                 |                                  |                                    |
| <b>Color Token:</b> Black                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria        |
|----------|---------------------------|-----------------|
| R003059  | Park / standard (surface) | (ARA >= 390625) |

**Label Information**

**Label Description:** Park / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Park"  
**Characteristics:** 3  
 3 (Black, Condensed, 6-16 pt, Mixed case)

**Symbol Sample**



**Particle\_Accelerator (AL140)**

Curve

**Particle\_Accelerator (AL140) (continued)**

Curve

| Symbol Information                                                                |                                                                                                |                           |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|
|  | Symbol Graphic Name: LN_Black_ParticleAccelerator                                              |                           |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                           |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                           |
| Element Name: Black_0.5mmSolidLine                                                |                                                                                                | Element Reference: L00014 |
| Element Type: Line - Simple                                                       |                                                                                                |                           |
| Description: Black 0.5mm Solid Line (0.5mm wt)                                    |                                                                                                |                           |
| Color Token: Black                                                                | Parameters:<br>Lineweight: 0.5mm                                                               |                           |

| Symbol Portrayal Rules |                                    |          |
|------------------------|------------------------------------|----------|
| Rule Ref               | Description                        | Criteria |
| R003597                | Particle Accelerator / all (curve) | ALL      |

| Label Information             |                                             |
|-------------------------------|---------------------------------------------|
| Label Description:            | Particle Accelerator / all (curve)          |
| Additional Labeling Criteria: | N/A                                         |
| Label String:                 | "Particle accelerator"                      |
| Characteristics:              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample               |
|-----------------------------|
| <u>Particle accelerator</u> |

**Penstock (BH110)**

Curve

| Symbol Information                                                                  |                                                                                                |                           |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|
|  | Symbol Graphic Name: LN_Cyan_Penstock_OnSurface                                                |                           |
|                                                                                     | Apply Label to Symbol: Yes                                                                     |                           |
|                                                                                     | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                           |
| Element Name: Cyan_0.3mmSolidLine                                                   |                                                                                                | Element Reference: L00016 |
| Element Type: Line - Simple                                                         |                                                                                                |                           |
| Description: Cyan 0.3mm Solid Line (0.3mm wt)                                       |                                                                                                |                           |
| Color Token: Cyan                                                                   | Parameters:<br>Lineweight: 0.3mm                                                               |                           |

| Symbol Portrayal Rules |                               |                                                           |
|------------------------|-------------------------------|-----------------------------------------------------------|
| Rule Ref               | Description                   | Criteria                                                  |
| R003194                | Penstock / on surface (curve) | (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

| Label Information             |                                                      |
|-------------------------------|------------------------------------------------------|
| Label Description:            | Penstock / on surface (curve)                        |
| Additional Labeling Criteria: | N/A                                                  |
| Label String:                 | "Penstock"                                           |
| Characteristics:              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Penstock (BH110) (continued)**

Curve

**Symbol Sample**

*Penstock*

**Symbol Information**

|                                                                                   |                                                                                                       |                                  |                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Penstock_BelowSurface                                             |                                  |                                                         |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                                         |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                                         |
| <b>Element Name:</b> Cyan_0.3mm-1mmLenDash-0.5mmGapLine                           |                                                                                                       | <b>Element Reference:</b> L00235 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Cyan 0.3mm Dashed Line (0.3mm wt, 1.0mm dash, 0.5mm gap)      |                                                                                                       |                                  |                                                         |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                        |                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                          |
|----------|-----------------------------------------|-----------------------------------|
| R003195  | Penstock / below ground surface (curve) | (LOC = 40 [Below Ground Surface]) |

**Label Information**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Penstock / below ground surface (curve)              |
| <b>Additional Labeling Criteria:</b> | N/A                                                  |
| <b>Label String:</b>                 | "Penstock"                                           |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**

*Penstock*

**Symbol Information**

|                                                                                     |                                                                                                                                            |  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Penstock_AboveSurface                                                                                  |  |  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                                          |  |  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Point symbols are added at each end. |  |  |

**Penstock (BH110) (continued)**

Curve

|                                                                                                                      |                                                                                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Aqueduct / Penstock                                                                        |                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00106 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.3mm Solid Line with "V" (0.3mm wt, 0.7mm long)                                            |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.3mmSolidLine<br><b>Fix at Start:</b> Cyan_0.3mm-0.9mmLenV<br><b>Fix at End:</b> Cyan_0.3mm-0.9mmLenV<br><b>Note:</b> Origin: Apex of 'V' touches line ends with ticks facing away |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mmSolidLine                                                                             |                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00016 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Cyan 0.3mm Solid Line (0.3mm wt)                                                                 |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                            |                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Length:</b> 0.9mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                           |                                  |                                     |
| <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                                                                            |                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Length:</b> 0.9mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                           |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                      | Criteria                   |
|----------|----------------------------------|----------------------------|
| R003196  | Penstock / above surface (curve) | (LOC = 45 [Above Surface]) |

**Label Information**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Penstock / above surface (curve)                     |
| <b>Additional Labeling Criteria:</b> | N/A                                                  |
| <b>Label String:</b>                 | "Penstock"                                           |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



**Pipeline (AQ113)**

Curve

**Symbol Information**

|                                                         |                                                                                                       |                                  |                                    |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br>                               | <b>Symbol Graphic Name:</b> LN_Black_Pipeline_NotWaterOnSurface                                       |                                  |                                    |
|                                                         | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |                                    |
|                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |                                    |
| <b>Element Name:</b> Black_0.15mmSolidLine              |                                                                                                       | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt) |                                                                                                       |                                  |                                    |
| <b>Color Token:</b> Black                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                       |                                  |                                    |

**Pipeline (AQ113) (continued)**

Curve

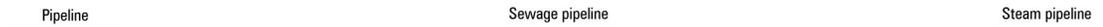
**Symbol Portrayal Rules**

| Rule Ref | Description                               | Criteria                                                                                                                                                                                                                                                                  |
|----------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003329  | Pipeline / on surface / not water (curve) | (LOC = 44 [On Surface] or LOC = -999999 [No Information]) and (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 146 [Heating Steam and/or Water] or PPO = 999 [Other] or PPO = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Pipeline / on surface / not water (curve)                                                                  |
| <b>Additional Labeling Criteria:</b> | (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage]) |
| <b>Label String:</b>                 | [PPO] "pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                  |
| <b>Label Description:</b>            | Pipeline / on surface / steam (curve)                                                                      |
| <b>Additional Labeling Criteria:</b> | (PPO = 146 [Heating Steam and/or Water])                                                                   |
| <b>Label String:</b>                 | "Steam pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |
| <b>Label Description:</b>            | Pipeline / on surface / other (curve)                                                                      |
| <b>Additional Labeling Criteria:</b> | (PPO = 999 [Other] or PPO = -999999 [No Information])                                                      |
| <b>Label String:</b>                 | "Pipeline"                                                                                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |

**Symbol Sample**



**Symbol Information**

|                                                                                     |                                                                                                       |                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Pipeline_WaterOnSurface                                           |                                    |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |                                    |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Cyan_0.15mmSolidLine                                           | <b>Element Reference:</b> L00245                                                                      | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.15mm Solid Line (0.15mm wt)                              |                                                                                                       |                                    |
| <b>Color Token:</b> Cyan                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                       |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                           | Criteria                                                                          |
|----------|---------------------------------------|-----------------------------------------------------------------------------------|
| R003330  | Pipeline / on surface / water (curve) | (LOC = 44 [On Surface] or LOC = -999999 [No Information]) and (PPO = 122 [Water]) |

**Label Information**

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Label Description:</b>            | Pipeline / on surface / water (curve)        |
| <b>Additional Labeling Criteria:</b> | N/A                                          |
| <b>Label String:</b>                 | "Pipeline"                                   |
| <b>Characteristics:</b>              | 14<br>14 (Cyan, Condensed, 6 pt, Mixed case) |

**Pipeline (AQ113) (continued)**

Curve

**Symbol Sample**

Pipeline

| Symbol Information                                                                |                                                                                                       |                                    |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_Pipeline_NotWaterBelowSurface                                    |                                    |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                     |                                    |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Black_0.15mm-1.0mmLenDash-0.5mmGapLine                       | <b>Element Reference:</b> L00257                                                                      | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 1.0mm dash, 0.5mm gap)   |                                                                                                       |                                    |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b>                                                                                    |                                    |
|                                                                                   | <b>Lineweight:</b> 0.15mm                                                                             | <b>Dash Length:</b> 1.0mm          |
|                                                                                   |                                                                                                       | <b>Dash Spacing:</b> 0.5mm         |

**Symbol Portrayal Rules**

| Rule Ref | Description                                         | Criteria                                                                                                                                                                                                                                          |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003331  | Pipeline / below ground surface / not water (curve) | (LOC = 40 [Below Ground Surface]) and (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 146 [Heating Steam and/or Water] or PPO = 999 [Other] or PPO = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Pipeline / below surface / not water (curve)                                                               |
| <b>Additional Labeling Criteria:</b> | (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage]) |
| <b>Label String:</b>                 | [PPO] "pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                  |
| <b>Label Description:</b>            | Pipeline / below surface / steam (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PPO = 146 [Heating Steam and/or Water])                                                                   |
| <b>Label String:</b>                 | "Steam pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |
| <b>Label Description:</b>            | Pipeline / below surface / other (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PPO = 999 [Other] or PPO = -999999 [No Information])                                                      |
| <b>Label String:</b>                 | "Pipeline"                                                                                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |

**Symbol Sample**

Pipeline

Gas pipeline

**Pipeline (AQ113) (continued)**

Curve

| Symbol Information                                                                                         |                                                                                                       |                                                      |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Cyan_Pipeline_WaterBelowSurface                                        |                                                      |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                     |                                                      |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                                      |
| <b>Element Name:</b> Cyan_0.15mm-1mmLenDash-0.5mmGapLine                                                   | <b>Element Reference:</b> L00234                                                                      | <b>Element Type:</b> Line - Styled                   |
| <b>Description:</b> Cyan 0.15mm Dashed Line (0.15mm wt, 1.0mm dash, 0.5mm gap)                             |                                                                                                       |                                                      |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b>                                                                                    |                                                      |
|                                                                                                            | <b>Lineweight:</b> 0.15mm                                                                             | <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm |

| Symbol Portrayal Rules |                                                 |                                                            |
|------------------------|-------------------------------------------------|------------------------------------------------------------|
| Rule Ref               | Description                                     | Criteria                                                   |
| R003332                | Pipeline / below ground surface / water (curve) | (LOC = 40 [Below Ground Surface]) and (PPO = 122 [ Water]) |

| Label Information                    |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Label Description:</b>            | Pipeline / below surface / water (curve)     |
| <b>Additional Labeling Criteria:</b> | N/A                                          |
| <b>Label String:</b>                 | "Pipeline"                                   |
| <b>Characteristics:</b>              | 14<br>14 (Cyan, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

| Symbol Information                                                                                           |                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_Pipeline_NotWaterElevated                                                                             |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                          |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Point symbols are added at each end. |

**Pipeline (AQ113) (continued)**

Curve

|                                                                                                                       |                                                                                                                                                                                                                                                   |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Pipeline (Other)                                                                           |                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00068 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with 'V' (0.2mm wt, 0.7mm long)                                           |                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Fix at Start:</b> Black_0.2mm-0.7mmLenV<br><b>Fix at End:</b> Black_0.2mm-0.7mmLenV<br><b>Note:</b> Origin: Apex of 'V' touches pipeline ends with "legs" of "V" facing away |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                                            |                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                                               |                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Black_0.2mm-0.7mmLenV                                                                            |                                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00045 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Length:</b> 0.7mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                           |                                  |                                     |
| <b>Element Name:</b> Black_0.2mm-0.7mmLenV                                                                            |                                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00045 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Length:</b> 0.7mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                           |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                  | Criteria                                                                                                                                                                                                                                   |
|----------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003333  | Pipeline / above surface / not water (curve) | (LOC = 45 [Above Surface]) and (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 146 [Heating Steam and/or Water] or PPO = 999 [Other] or PPO = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                            |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Pipeline / above surface / not water (curve)                                                               |
| <b>Additional Labeling Criteria:</b> | (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage]) |
| <b>Label String:</b>                 | "[PPO] pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)                  |
| <b>Label Description:</b>            | Pipeline / above surface / steam (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PPO = 146 [Heating Steam and/or Water])                                                                   |
| <b>Label String:</b>                 | "Steam pipeline"                                                                                           |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |
| <b>Label Description:</b>            | Pipeline / above surface / other (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PPO = 999 [Other] or PPO = -999999 [No Information])                                                      |
| <b>Label String:</b>                 | "Pipeline"                                                                                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                                                                |

**Symbol Sample**

↔ Pipeline ↔

↔ Sewage pipeline ↔

**Pipeline (AQ113) (continued)**

Curve

| Symbol Information                                                                                                   |                                                                                                                                                                                                                                                |                                  |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                     | <b>Symbol Graphic Name:</b> LN_Cyan_Pipeline_WaterElevated                                                                                                                                                                                     |                                  |
|                                                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                              |                                  |
|                                                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Point symbols are added at each end.                                                                                                     |                                  |
| <b>Element Name:</b> Cyan_Pipeline (Water)                                                                           |                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00069 |
| <b>Description:</b> Cyan 0.15mm Solid Line with 'V' (0.2mm wt, 0.7mm long)                                           |                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.15mmSolidLine<br><b>Fix at Start:</b> Cyan_0.2mm-0.7mmLenV<br><b>Fix at End:</b> Cyan_0.2mm-0.7mmLenV<br><b>Note:</b> Origin: Apex of 'V' touches pipeline ends with "legs" of "V" facing away |                                  |
| <b>Element Name:</b> Cyan_0.15mmSolidLine                                                                            |                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00245 |
| <b>Description:</b> Cyan 0.15mm Solid Line (0.15mm wt)                                                               |                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                |                                  |
| <b>Element Name:</b> Cyan_0.2mm-0.7mmLenV                                                                            |                                                                                                                                                                                                                                                | <b>Element Reference:</b> P00058 |
| <b>Description:</b> Cyan "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Length:</b> 0.7mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                        |                                  |
| <b>Element Name:</b> Cyan_0.2mm-0.7mmLenV                                                                            |                                                                                                                                                                                                                                                | <b>Element Reference:</b> P00058 |
| <b>Description:</b> Cyan "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle |                                                                                                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan                                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Length:</b> 0.7mm<br><b>Orientation:</b> Apex is where the lines connect to form a "V"<br><b>Note:</b> Angle between legs: 90 degrees                                                        |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                            |
|----------|------------------------------------------|-----------------------------------------------------|
| R003334  | Pipeline / above surface / water (curve) | (LOC = 45 [Above Surface]) and (PPO = 122 [ Water]) |

**Label Information**

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Label Description:</b>            | Pipeline / above surface / water (curve)     |
| <b>Additional Labeling Criteria:</b> | N/A                                          |
| <b>Label String:</b>                 | "Pipeline"                                   |
| <b>Characteristics:</b>              | 14<br>14 (Cyan, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Point\_Of\_Change (No Code)**

Point



**Polar\_Ice (BJ080) (continued)**

Surface

Symbol Sample



**Port (BB009)**

Surface

Symbol Information

|                                                                                                                |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Port                                                                       |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                        |                                  |

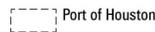
Symbol Portrayal Rules

| Rule Ref | Description          | Criteria |
|----------|----------------------|----------|
| R003600  | Port / all (surface) | ALL      |

Label Information

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| <b>Label Description:</b>            | Port / all (surface)                          |
| <b>Additional Labeling Criteria:</b> | N/A                                           |
| <b>Label String:</b>                 | [Z1005_FNA] "Port"                            |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case) |

Symbol Sample



Point

Symbol Information

|                                                                                                                  |                                                                       |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Port                             |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br>Length: 0.8mm<br>Note: Square is filled         |                                  |

Symbol Portrayal Rules

| Rule Ref | Description        | Criteria |
|----------|--------------------|----------|
| R003601  | Port / all (point) | ALL      |

**Port (BB009) (continued)**

Point

**Label Information**

**Label Description:** Port / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Port"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Port

**Power\_Substation (AD030)**

Point

**Symbol Information**

|                                                                                   |                                                                                                              |                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_PowerSubstation                                                         |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> No                                                                             |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> Origin: Center of open square                                          |                                  |
| <b>Element Name:</b> Black_PowerSubstation                                        |                                                                                                              | <b>Element Reference:</b> P00138 |
| <b>Description:</b> Black power substation                                        |                                                                                                              |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Note: See Element: Black_PowerSubstation in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003298  | Power Substation / all (point) | ALL      |

**Symbol Sample**

⚡

**Pumping\_Station (AQ116)**

Surface

**Symbol Information**

|                                                                                     |                                                                                                                 |                                  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Black_PumpingStation                                                             |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                          |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)       |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                        |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Pumping\_Station (AQ116) (continued)**

Surface

R003142 Pumping Station / all (surface) ALL

**Label Information**

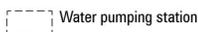
**Label Description:** Pumping Station / known (surface)  
**Additional Labeling Criteria:** (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 122 [Water])

**Label String:** [PPO] "pumping station"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Pumping Station / unknown (surface)  
**Additional Labeling Criteria:** (PPO = 999 [Other] or PPO = -999999 [No Information])

**Label String:** "Pumping station"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                  |                                                                             |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_PumpingStation                         |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                           |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                             | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                             |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003143  | Pumping Station / all (point) | ALL      |

**Label Information**

**Label Description:** Pumping Station / known (point)  
**Additional Labeling Criteria:** (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 83 [Petroleum] or PPO = 101 [Sewage] or PPO = 122 [Water])

**Label String:** [PPO] "pumping station"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Pumping Station / unknown (point)  
**Additional Labeling Criteria:** (PPO = 999 [Other] or PPO = -999999 [No Information])

**Label String:** "Pumping station"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Pumping\_Station (AQ116) (continued)**

Point

**Symbol Sample**

■ Pumping station

■ Sewage pumping station

**Pylon (AT042)**

Point

| Symbol Information                                                                                             |                                                                                                                   |                                  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Pylon_VO                                                                   |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                 |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                       |                                  |
| <b>Element Name:</b> Blue072_Obstruction                                                                       |                                                                                                                   | <b>Element Reference:</b> P00008 |
| <b>Description:</b> Blue072 vertical obstruction                                                               |                                                                                                                   |                                  |
| <b>Color Token:</b> Blue072                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Obstruction in Annex H for detailed drawing instructions. |                                  |

| Symbol Portrayal Rules |                                      |             |
|------------------------|--------------------------------------|-------------|
| Rule Ref               | Description                          | Criteria    |
| R003140                | Pylon / obstruction / single (point) | (HGT >= 46) |

| Label Information                    |                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Pylon / obstruction / single / onshore (point)                                                              |
| <b>Additional Labeling Criteria:</b> | ZVH and HGT values are converted from meters to feet.                                                       |
| <b>Label String:</b>                 | [ZVH]<br>"([HGT])"                                                                                          |
| <b>Characteristics:</b>              | 46,95,95,95<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |
| <b>Label Description:</b>            | Pylon / obstruction / single / offshore (point)                                                             |
| <b>Additional Labeling Criteria:</b> | HGT value is converted from meters to feet.                                                                 |
| <b>Label String:</b>                 | "([HGT])"                                                                                                   |
| <b>Characteristics:</b>              | 95,95,95<br>95 (Blue072, Condensed, 6 pt, Lower case)                                                       |

**Symbol Sample**

 374  
(361)

 (361)

| Symbol Information                                                                                               |                                                                                        |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Pylon_Multiple_VO                               |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                      |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of dot of highest object in group |

**Pylon (AT042) (continued)**

Point

|                                                           |                                                                                                                     |                                    |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_Multiple_VO's                | <b>Element Reference:</b> P00101                                                                                    | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Blue072 multiple vertical obstruction |                                                                                                                     |                                    |
| <b>Color Token:</b> Blue072                               | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Multiple_VO's in Annex H for detailed drawing instructions. |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                  |
|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| R003141  | Pylon / obstruction / multiple (point) | Use this symbol to replace a group of single Pylon vertical obstruction symbols that are overprinting in congested areas. |

**Label Information**

|                                      |                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Pylon / obstruction / multiple / onshore (point)                                                            |
| <b>Additional Labeling Criteria:</b> | ZVH and HGT values are converted from meters to feet.                                                       |
| <b>Label String:</b>                 | [ZVH]<br>"("[HGT]")"                                                                                        |
| <b>Characteristics:</b>              | 46,95,95,95<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |
| <b>Label Description:</b>            | Pylon / obstruction / multiple / offshore (point)                                                           |
| <b>Additional Labeling Criteria:</b> | HGT value is converted from meters to feet.                                                                 |
| <b>Label String:</b>                 | "("[HGT]")"                                                                                                 |
| <b>Characteristics:</b>              | 95,95,95<br>95 (Blue072, Condensed, 6 pt, Lower case)                                                       |

**Symbol Sample**



**Racetrack (AK130)**

Curve

| Symbol Information                                                                                               |                                                                                                       |                                    |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_Racetrack                                                        |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                    |
| <b>Element Name:</b> Black_0.4mmSolidLine                                                                        | <b>Element Reference:</b> L00013                                                                      | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.4mm Solid Line (0.4mm wt)                                                            |                                                                                                       |                                    |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.4mm                                                        |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria      |
|----------|-------------------------|---------------|
| R003060  | Racetrack / all (curve) | (LZN >= 1500) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Racetrack / all (curve)                     |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Racetrack"                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Racetrack (AK130) (continued)**

Curve

**Symbol Sample**



Racetrack

**Radar\_Station (AT045)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_RadarStation                                                               |                                  |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                              |                                  |                                    |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        | <b>Dash Spacing:</b> 0.5mm         |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003603  | Radar Station / all (surface) | ALL      |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Radar Station / all (surface)               |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Radar station"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



Radar station

Point

**Symbol Information**

|                                                                                                                  |                                                                       |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RadarStation                     |                                  |                                     |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |                                  |                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |                                     |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                       | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                    |                                  |                                     |
|                                                                                                                  | <b>Length:</b> 0.8mm                                                  | <b>Note:</b> Square is filled    |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Radar\_Station (AT045) (continued)**

Point

R003159 Radar Station / (HGT < 46)  
non-obstruction (point)

**Label Information**

**Label Description:** Radar Station / non-obstruction (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Radar station"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Radar station

**Railway (AN010)**

Curve

| Symbol Information                                                                                      |                                                                                                       |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <p>Symbol Graphic</p>  | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNormalGauge_Electric                               |
|                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway (AN010) (continued)**

Curve

|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeElectric)                                                      | <b>Element Reference:</b> L00074                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 1.5mm long, 6.4mm interval) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point 4:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset 3.7mm after that 6.4mm<br><b>Repeating Point Interval 3:</b> Initial offset: 2.8mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track.<br><b>Repeating Point Interval 4:</b> Initial offset: 4.1mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track.<br><b>Note:</b> Ticks are centered and 90 degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line. |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                                                           | <b>Element Reference:</b> L00011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                      | <b>Element Reference:</b> P00044                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                      | <b>Element Reference:</b> P00044                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                           | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                           | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Color Token:</b> Black                                                                                           | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000383  | Railway / usable / broad, standard / electrified / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / usable / broad / electrified / multiple (curve)                                                                        |
| <b>Additional Labeling Criteria:</b> | (ZI017_RGC = 1 [Broad]) and (LTN > 2)                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA] [LTN] "TRACKS" [ZI017_GAW] "m"                                                                                       |
| <b>Characteristics:</b>              | 27,28,27,28,28<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Railway / usable / broad / electrified / double (curve)                                                                          |
| <b>Additional Labeling Criteria:</b> | (ZI017_RGC = 1 [Broad]) and (LTN = 2)                                                                                            |
| <b>Label String:</b>                 | [ZI005_FNA] [ZI017_GAW] "m"                                                                                                      |
| <b>Characteristics:</b>              | 27,28,28<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)       |

**Railway (AN010) (continued)**

Curve

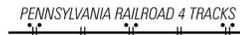
**Label Description:** Railway / usable / standard / electrified / multiple (curve)  
**Additional Labeling Criteria:** (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (LTN > 2)

**Label String:** [ZI005\_FNA] [LTN] "TRACKS"  
**Characteristics:** 27,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / usable / standard / electrified / double (curve)  
**Additional Labeling Criteria:** (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (LTN = 2)

**Label String:** [ZI005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNormalGauge_Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeElectric)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00088 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 1.5mm long)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Line Style: Black_0.3mmSolidLine<br>Repeating Point: Black_0.15mm-1.5mmLenTick<br>Repeating Point 2: Black_0.5mmFilledDot<br>Repeating Point 3: Black_0.5mmFilledDot<br>Repeating Point Interval: Initial offset: 3.2mm after that 6.4mm<br>Repeating Point Interval 2: Initial offset: 2.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track.<br>Repeating Point Interval 3: Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track.<br>Note: Ticks are centered 90 and degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Lineweight: 0.3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Lineweight: 0.15mm      Length: 1.5mm      Orientation: Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Diameter: 0.5mm<br>Note: Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br>Diameter: 0.5mm<br>Note: Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                     |

**Railway (AN010) (continued)**

Curve

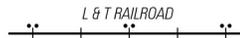
**Symbol Portrayal Rules**

| Rule Ref | Description                                                       | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000382  | Railway / usable / broad, standard / electrified / single (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 1 [Broad] or Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 1 [Electrified Track] or Z1017_RRA = 3 [Overhead Electrified]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / usable / broad / electrified / single (curve)                                                                    |
| <b>Additional Labeling Criteria:</b> | (Z1017_RGC = 1 [Broad])                                                                                                    |
| <b>Label String:</b>                 | [Z1005_FNA] [Z1017_GAW] "m"                                                                                                |
| <b>Characteristics:</b>              | 27,28,28<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Railway / usable / standard / electrified / single (curve)                                                                 |
| <b>Additional Labeling Criteria:</b> | (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information])                                                         |
| <b>Label String:</b>                 | [Z1005_FNA]                                                                                                                |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNarrowGauge_Electric                               |
|                           | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway (AN010) (continued)**

Curve

|                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeElectric)                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00076 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point 4:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset 3.7mm after that 6.4mm<br><b>Repeating Point Interval 3:</b> Initial offset: 2.8mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides.<br><b>Repeating Point Interval 4:</b> Initial offset: 4.1mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides.<br><b>Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                            | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000385  | Railway / usable / narrow / electrified / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / usable / narrow / electrified / multiple (curve)                                                                 |
| <b>Additional Labeling Criteria:</b> | (LTN > 2)                                                                                                                  |
| <b>Label String:</b>                 | [ZI005_FNA] [LTN] "TRACKS"                                                                                                 |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Railway / usable / narrow / electrified / double (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (LTN = 2)                                                                                                                  |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                |

**Railway (AN010) (continued)**

Curve

**Symbol Sample**



**Symbol Information**

|                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                               | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNarrowGauge_Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
|                                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |
|                                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeElectric)                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00075 |
| <b>Element Type:</b> Line - Complex                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides<br><b>Repeating Point Interval 3:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides.<br><b>Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                  |
| <b>Element Name:</b> Black_0.3mmSolidLine                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00011 |
| <b>Element Type:</b> Line - Simple                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00038 |
| <b>Element Type:</b> Point - Simple                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000384  | Railway / usable / narrow / electrified / single (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 2 [Narrow]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 1 [Electrified Track] or Z1017_RRA = 3 [Overhead Electrified]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                             |
|--------------------------------------|-------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / usable / narrow / electrified / single (curve)    |
| <b>Additional Labeling Criteria:</b> | N/A                                                         |
| <b>Label String:</b>                 | [Z1005_FNA]                                                 |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case) |

**Railway (AN010) (continued)**

Curve

**Symbol Sample**



**Symbol Information**

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                      | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNormalGauge_Non-Electric                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
|                                                                                      | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                            |                                  |                                     |
|                                                                                      | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeNon-electric)                   |                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00072 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 1.5mm long) |                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 3.7mm after that 6.4mm<br><b>Note:</b> Ticks are centered and 90 degrees to line. |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                            |                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                |                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                       |                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                 |                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                       |                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                 |                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                         |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                             | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000378  | Railway / usable / broad, standard / non-electrified / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                                                   |                                                                                                                                                                                |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / usable / broad / non-electrified / multiple (curve)<br>(ZI017_RGC = 1 [Broad]) and (LTN > 2)                                                                         |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [LTN] "TRACKS" [ZI017_GAW] "m"<br>27,28,27,28,28<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / usable / broad / non-electrified / double (curve)<br>(ZI017_RGC = 1 [Broad]) and (LTN = 2)                                                                           |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [ZI017_GAW] "m"<br>27,28,28<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                      |

**Railway (AN010) (continued)**

**Curve**

**Label Description:** Railway / usable / standard / non-electrified / multiple (curve)  
**Additional Labeling Criteria:** (Z1017\_RGC = 3 [Standard] or Z1017\_RGC = -999999 [No Information]) and (LTN > 2)

**Label String:** [Z1005\_FNA] [LTN] "TRACKS"  
**Characteristics:** 27,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / usable / standard / non-electrified / double (curve)  
**Additional Labeling Criteria:** (Z1017\_RGC = 3 [Standard] or Z1017\_RGC = -999999 [No Information]) and (LTN = 2)

**Label String:** [Z1005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                               |                                                                                                                                                                                                                                                         |                                  |                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                               | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNormalGauge_Non-Electric                                                                                                                                                                             |                                  |                                     |
|                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                       |                                  |                                     |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeNon-electric)            |                                                                                                                                                                                                                                                         | <b>Element Reference:</b> L00093 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 1.5mm long) |                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Note:</b> Ticks are centered and 90 degrees to line |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                     |                                                                                                                                                                                                                                                         | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                         |                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                          |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                |                                                                                                                                                                                                                                                         | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight          |                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                   |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                           | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000377  | Railway / usable / broad, standard / non-electrified / single (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 1 [Broad] or Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 4 [Non-electrified] or Z1017_RRA = 999 [Other] or Z1017_RRA = -999999 [No Information]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / usable / broad / non-electrified / single (curve)  
**Additional Labeling Criteria:** (Z1017\_RGC = 1 [Broad])

**Label String:** [Z1005\_FNA] [Z1017\_GAW] "m"  
**Characteristics:** 27,28,28  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Railway (AN010) (continued)**

Curve

**Label Description:** Railway / usable / standard / non-electrified / single (curve)  
**Additional Labeling Criteria:** (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information])  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                       | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNarrowGauge_Non-Electric                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
|                                                                                                       | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
|                                                                                                       | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeNon-electric)                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Element Reference:</b> L00073 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 0.75mm long, 6.4mm interval) |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                             | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 3.7mm after that 6.4mm<br><b>Note:</b> Ticks are 90 degrees to line and tick pairs alternate on either side of the line. |                                  |                                     |
| <b>Element Name:</b> Black_0.3mmSolidLine                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Color Token:</b> Black                                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                    |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000395  | Railway / usable / narrow / non-electric / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / usable / narrow / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (LTN > 2)  
**Label String:** [ZI005\_FNA] [LTN] "TRACKS"  
**Characteristics:** 27,28,27  
 27 (Black, Light Condensed, Italic 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / usable / narrow / non-electric / double (curve)

**Railway (AN010) (continued)**

Curve

**Additional Labeling Criteria:** (LTN = 2)  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                |                                                                                                       |                                  |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNarrowGauge_Non-Electric                           |                                  |
|                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                     |                                  |
|                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                  |
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeNon-electric)             |                                                                                                       | <b>Element Reference:</b> L00087 |
| <b>Element Type:</b> Line - Complex                                            |                                                                                                       |                                  |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 0.75mm long) |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                      | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                | <b>Line Style:</b> Black_0.3mmSolidLine                                                               |                                  |
|                                                                                | <b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick                                                    |                                  |
|                                                                                | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                               |                                  |
|                                                                                | <b>Note:</b> Ticks are 90 degrees to line and alternate on either side of the line.                   |                                  |
| <b>Element Name:</b> Black_0.3mmSolidLine                                      |                                                                                                       | <b>Element Reference:</b> L00011 |
| <b>Element Type:</b> Line - Simple                                             |                                                                                                       |                                  |
| <b>Description:</b> Black 0.3mm Solid Line (0.3mm wt)                          |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                      | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                | <b>Lineweight:</b> 0.3mm                                                                              |                                  |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                |                                                                                                       | <b>Element Reference:</b> P00038 |
| <b>Element Type:</b> Point - Simple                                            |                                                                                                       |                                  |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long           |                                                                                                       |                                  |
| <b>Color Token:</b> Black                                                      | <b>Parameters:</b>                                                                                    |                                  |
|                                                                                | <b>Orientation:</b> Based 90 degrees to line                                                          |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                               | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000394  | Railway / usable / narrow / non-electric / single (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 2 [Narrow]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 4 [Non-electrified] or Z1017_RRA = 999 [Other] or Z1017_RRA = -999999 [No Information]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / usable / narrow / non-electric / single (curve)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**





**Railway (AN010) (continued)**

Curve

|                                                                   |                                                                                                                                                                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   | 27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                                                                         |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / broad / electrified / multiple (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 1 [Broad]) and (LTN > 2)                                               |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] [LTN] "TRACKS" [Z1017_GAW] "m" "NOT USABLE"<br>27,28,27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)         |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / standard / electrified / multiple (curve)<br>(PCF = 1 [Construction]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (LTN > 2)                    |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] [LTN] "TRACKS CONSTRUCTION"<br>27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                  |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / standard / electrified / multiple (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (LTN > 2) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] [LTN] "TRACKS NOT USABLE"<br>27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                    |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / broad / electrified / double (curve)<br>(PCF = 1 [Construction]) and (Z1017_RGC = 1 [Broad]) and (LTN = 2)                                                                    |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] [Z1017_GAW] "m" "CONSTRUCTION"<br>27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                            |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / broad / electrified / double (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 1 [Broad]) and (LTN = 2)                                                 |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] [Z1017_GAW] "m" "NOT USABLE"<br>27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                              |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / standard / electrified / double (curve)<br>(PCF = 1 [Construction]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (LTN = 2)                      |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] "CONSTRUCTION"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                                                           |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / standard / electrified / double (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (LTN = 2)   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] "NOT USABLE"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                                                             |

**Symbol Sample**



**Railway (AN010) (continued)**

Curve

| Symbol Information                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                 | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNormalGauge_Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |
|                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |
|                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeElectricNon-use)                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00085 |
| <b>Element Type:</b> Line - Complex                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Repeating Point Interval 3:</b> Initial offset: 3.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Note:</b> Tick is centered in dash and 90 degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                  |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00039 |
| <b>Element Type:</b> Line - Styled                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.9mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00044 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                         | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000390  | Railway / construction, not usable / broad, standard / electrified / single (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 1 [Broad] or Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 1 [Electrified Track] or Z1017_RRA = 3 [Overhead Electrified]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / construction / broad / electrified / single (curve)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (Z1017_RGC = 1 [Broad])                                                                          |
| <b>Label String:</b>                 | [Z1005_FNA] [Z1017_GAW] "m" "CONSTRUCTION"                                                                                    |
| <b>Characteristics:</b>              | 27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Railway / not usable / broad / electrified / single (curve)                                                                   |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 1 [Broad])                                                     |
| <b>Label String:</b>                 | [Z1005_FNA] [Z1017_GAW] "m" "NOT USABLE"                                                                                      |

**Railway (AN010) (continued)**

Curve

|                                                                   |                                                                                                                                                                                        |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                                          |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / standard / electrified / single (curve)<br>(PCF = 1 [Construction]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information])                    |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] "CONSTRUCTION"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                                           |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / standard / electrified / single (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (Z1017_RGC = 3 [Standard] or Z1017_RGC = -999999 [No Information]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] "NOT USABLE"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                                             |

**Symbol Sample**



| Symbol Information                                                                                              |                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNarrowGauge_Electric_NotInUse                      |
|                                                                                                                 | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                                 | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway (AN010) (continued)**

Curve

|                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNarrowGauge ElectricNon-use)                                                                  | <b>Element Reference:</b> L00084                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point 4:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 3:</b> Initial offset: 2.3mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides<br><b>Repeating Point Interval 4:</b> Initial offset: 3.6mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides<br><b>Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                     |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                              | <b>Element Reference:</b> L00039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.9mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                         | <b>Element Reference:</b> P00038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                         | <b>Element Reference:</b> P00038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                               | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                               | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                                               | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                  | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000393  | Railway / construction, not usable / narrow / electrified / multiple (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (Z1017_RGC = 2 [Narrow]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (Z1017_RRA = 1 [Electrified Track] or Z1017_RRA = 3 [Overhead Electrified]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / construction / narrow / electrified / multiple (curve)                                                           |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction]) and (LTN > 2)                                                                                     |
| <b>Label String:</b>                 | [Z1005_FNA] [LTN] "TRACKS CONSTRUCTION"                                                                                    |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Railway / not usable / narrow / electrified / multiple (curve)                                                             |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (LTN > 2)                                                                |
| <b>Label String:</b>                 | [Z1005_FNA] [LTN] "TRACKS NOT USABLE"                                                                                      |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |

**Railway (AN010) (continued)**

Curve

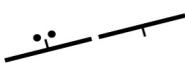
**Label Description:** Railway / construction / narrow / electrified / double (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (LTN = 2)  
**Label String:** [ZI005\_FNA] "CONSTRUCTION"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Railway / not usable / narrow / electrified / double (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (LTN = 2)  
**Label String:** [ZI005\_FNA] "NOT USABLE"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                 | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNarrowGauge_Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |
|                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |
|                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeElectricNon-use)                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00083 |
| <b>Element Type:</b> Line - Complex                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Repeating Point Interval 3:</b> Initial offset: 3.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is 0.75mm from the center of the line style line |                                  |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00039 |
| <b>Element Type:</b> Line - Styled                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.9mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00038 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00049 |
| <b>Element Type:</b> Point - Simple                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Railway (AN010) (continued)**

Curve

R000392 Railway / construction, (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 not usable / narrow / electrified / single (curve) [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017\_RGC = 2 [Narrow]) and (ZI017\_RIR = 1000 [False] or ZI017\_RIR = -999999 [No Information]) and (ZI017\_RRA = 1 [Electrified Track] or ZI017\_RRA = 3 [Overhead Electrified]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information])

**Label Information**

**Label Description:** Railway / construction / narrow / electrified / single (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])  
**Label String:** [ZI005\_FNA] "CONSTRUCTION"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Railway / not usable / narrow / electrified / single (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged])  
**Label String:** [ZI005\_FNA] "NOT USABLE"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                      | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNormalGauge_Non-Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|                                                                                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                 |  |
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeNon-electricNon-use)                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Reference:</b> L00077                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Type:</b> Line - Complex                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 1.5mm long) |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset 3.2mm after that 6.4mm<br><b>Note:</b> Tick pair (0.5mm gap between each tick) is centered in dash and 90 degrees to line. |  |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Reference:</b> L00039                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Type:</b> Line - Styled                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.9mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                   |  |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Reference:</b> P00044                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Type:</b> Point - Simple                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Reference:</b> P00044                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Element Type:</b> Point - Simple                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                  |  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

## Railway (AN010) (continued)

## Curve

R000387 Railway / construction, not usable / broad, standard / non-electric / multiple (curve) (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017\_RGC = 1 [Broad] or ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (ZI017\_RIR = 1000 [False] or ZI017\_RIR = -999999 [No Information]) and (ZI017\_RRA = 4 [Non-electrified] or ZI017\_RRA = 999 [Other] or ZI017\_RRA = -999999 [No Information]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information])

## Label Information

**Label Description:** Railway / construction / broad / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI017\_RGC = 1 [Broad]) and (LTN > 2)

**Label String:** [ZI005\_FNA] [LTN] "TRACKS" [ZI017\_GAW] "m" "CONSTRUCTION"  
**Characteristics:** 27,28,27,28,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / not usable / broad / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 1 [Broad]) and (LTN > 2)

**Label String:** [ZI005\_FNA] [LTN] "TRACKS" [ZI017\_GAW] "m" "NOT USABLE"  
**Characteristics:** 27,28,27,28,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / construction / standard / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (LTN > 2)

**Label String:** [ZI005\_FNA] [LTN] "TRACKS CONSTRUCTION"  
**Characteristics:** 27,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / not usable / standard / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (LTN > 2)

**Label String:** [ZI005\_FNA] [LTN] "TRACKS NOT USABLE"  
**Characteristics:** 27,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / construction / broad / non-electric / double (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI017\_RGC = 1 [Broad]) and (LTN = 2)

**Label String:** [ZI005\_FNA] [ZI017\_GAW] "m" "CONSTRUCTION"  
**Characteristics:** 27,28,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / not usable / broad / non-electric / double (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 1 [Broad]) and (LTN = 2)

**Label String:** [ZI005\_FNA] [ZI017\_GAW] "m" "NOT USABLE"  
**Characteristics:** 27,28,28,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)  
 28 (Black, Light Condensed, Italic, 6 pt, Lower case)

**Label Description:** Railway / construction / standard / non-electric / double (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information]) and (LTN = 2)

**Label String:** [ZI005\_FNA] "CONSTRUCTION"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Railway / not usable / standard / non-electric / double (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 3 [Standard]) or ZI017\_RGC = -999999 [No Information] and (LTN = 2)

**Railway (AN010) (continued)**

Curve

**Label String:** [ZI005\_FNA] "NOT USABLE"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                                                                                                                                                                                  |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                  | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNormalGauge_Non-Electric_NotInUse                                                                                                                                                                                             |                                  |                                     |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                |                                  |                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                            |                                  |                                     |
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeNon-electricNon-use)                                        |                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00078 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 1.5mm long) |                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm<br><b>Note:</b> Tick is centered in dash and 90 degrees to line. |                                  |                                     |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                       |                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                    |                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                   | <b>Dash Length:</b> 5.9mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                   |                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                             |                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                            |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                          | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000386  | Railway / construction, not usable / broad, standard / non-electric / single (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                                                   |                                                                                                                                                                             |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / broad / non-electric / single (curve)<br>(PCF = 1 [Construction]) and (ZI017_RGC = 1 [Broad])                                                      |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [ZI017_GAW] "m" "CONSTRUCTION"<br>27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / broad / non-electric / single (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017_RGC = 1 [Broad])                                   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [ZI017_GAW] "m" "NOT USABLE"<br>27,28,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)   |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / standard / non-electric / single (curve)<br>(PCF = 1 [Construction]) and (ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information])        |

**Railway (AN010) (continued)**

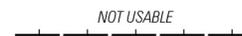
Curve

**Label String:** [ZI005\_FNA] "CONSTRUCTION"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Railway / not usable / standard / non-electric / single (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 3 [Standard] or ZI017\_RGC = -999999 [No Information])

**Label String:** [ZI005\_FNA] "NOT USABLE"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                          | <b>Symbol Graphic Name:</b> LN_Black_Railway_DoubleNarrowGauge_Non-Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
|                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
|                                                                                                                          | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeNon-electricNon-use)                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00080 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 0.75mm long) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset 3.2mm after that 6.4mm<br><b>Note:</b> Tick pair (0.5mm gap between each tick) is centered in dash and 90 degrees to line. Tick pairs alternate on either side of the line. |                                  |                                     |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Dash Length:</b> 5.9mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                   | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000389  | Railway / construction, not usable / narrow / non-electric / multiple (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LTN >= 2) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / construction / narrow / non-electric / multiple (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction]) and (LTN > 2)

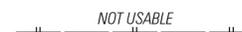
**Label String:** [ZI005\_FNA] [LTN] "TRACKS CONSTRUCTION"

**Railway (AN010) (continued)**

**Curve**

|                                                                   |                                                                                                                                                                     |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                          |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / narrow / non-electric / multiple (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (LTN > 2)                                      |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] [LTN] "TRACKS NOT USABLE"<br>27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / construction / narrow / non-electric / double (curve)<br>(PCF = 1 [Construction]) and (LTN = 2)                                                           |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] "CONSTRUCTION"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                        |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway / not usable / narrow / non-electric / double (curve)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (LTN = 2)                                        |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [ZI005_FNA] "NOT USABLE"<br>27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                          |

**Symbol Sample**



| Symbol Information                                                                                                |                                                                                                                                                                                                                                                                                                                                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                   | <b>Symbol Graphic Name:</b> LN_Black_Railway_SingleNarrowGauge_Non-Electric_NotInUse                                                                                                                                                                                                                                                             |                                     |
|                                                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                            |                                     |
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeNon-electricNon-use)                                         | <b>Element Reference:</b> L00079                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) |                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                         | <b>Parameters:</b><br><b>Line Style:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm<br><b>Note:</b> Ticks are based 90 degrees to line and alternate on either side of the line. Ticks are centered along the dash. |                                     |
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                        | <b>Element Reference:</b> L00039                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap)                                     |                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 5.9mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                              |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                   | <b>Element Reference:</b> P00038                                                                                                                                                                                                                                                                                                                 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                              |                                                                                                                                                                                                                                                                                                                                                  |                                     |
| <b>Color Token:</b> Black                                                                                         | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                               |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000388  | Railway / construction, not usable / narrow / non-electric / single (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 8 [Logging] or RRC = 11 [Rail Rapid Transit] or RRC = 33 [Long-haul] or RRC = 999 [Other] or RRC = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LTN = 1) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |



**Railway (AN010) (continued)**

Curve

**Label Information**

**Label Description:** Railway / in road (curve)  
**Additional Labeling Criteria:** N/A

**Label String:** [ZI005\_FNA]  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------|
|                                                                                                                           | <b>Symbol Graphic Name:</b> LN_Black_Railway_In_Road_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                              |
|                                                                                                                           | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                              |
|                                                                                                                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                              |
| <b>Element Name:</b> Black_RailwayInRoad (Non-use)                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00204 | <b>Element Type:</b> Line - Complex          |
| <b>Description:</b> Black 0.15mm Cased Dashed Line (0.75mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> Black_0.75mm-5.9mmLenDash-0.5mmGapLine<br><b>Line Style 2:</b> PaperWhite_0.45mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm<br><b>Note:</b> The complex line is a combination of 2 lines. Display Level: Bottom (1):Black 0.75mm dashed line, (2):PaperWhite 0.45mm solid line with repeating Black 0.15mm (0.75mm length) ticks on top and centered at 90 degrees to the lines. |                                  |                                              |
| <b>Element Name:</b> Black_0.75mm-5.9mmLenDash-0.5mmGapLine                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00230 | <b>Element Type:</b> Line - Styled           |
| <b>Description:</b> Black 0.75mm Dashed Line (0.75mm wt, 5.9mm dash, 0.5mm gap)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.75mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Dash Length:</b> 5.9mm        | <b>Dash Spacing:</b> 0.5mm                   |
| <b>Element Name:</b> PaperWhite_0.45mmSolidLine                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple           |
| <b>Description:</b> PaperWhite 0.45mm Solid Line (0.45mm wt)                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
| <b>Color Token:</b> PaperWhite                                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.45mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple          |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                              |
| <b>Color Token:</b> Black                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Length:</b> 0.75mm            | <b>Orientation:</b> Based 90 degrees to line |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                  | Criteria                                                                                                                                                            |
|----------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000439  | Railway / construction, not usable / railway in road (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017_RIR = 1001 [True]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / construction (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])

**Label String:** [ZI005\_FNA] "CONSTRUCTION"  
**Characteristics:** 27,27

**Railway (AN010) (continued)**

Curve

27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Railway / not usable (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged])  
**Label String:** [Z1005\_FNA] "NOT USABLE"  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                |                                                                                                                                                                                                                                                                                            |                                  |                                     |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|               | <b>Symbol Graphic Name:</b> LN_Black_Car-Line                                                                                                                                                                                                                                              |                                  |                                     |
|                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                          |                                  |                                     |
|                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Black_Car-Line                                                            |                                                                                                                                                                                                                                                                                            | <b>Element Reference:</b> L00081 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 1.5mm long, 3.8mm interval) |                                                                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 1.9mm after that 3.8mm<br><b>Note:</b> Ticks are centered and 90 degrees to line. Tick length extends across road. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                     |                                                                                                                                                                                                                                                                                            | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                        |                                                                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                 |                                                                                                                                                                                                                                                                                            | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                           |                                                                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                      |                                  |                                     |

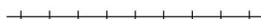
**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria                                                                                                                                                                                                                                                                                                                                                 |
|----------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000380  | Railway / usable / carline (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (RRC = 2 [Carline] or RRC = 13 [Marine Railway] or RRC = 14 [Tramway] or RRC = 15 [Funicular] or RRC = 24 [Museum] or RRC = 32 [Automated Transit System]) and (Z1017_RIR = 1000 [False] or Z1017_RIR = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

**Label Description:** Railway / carline (curve)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA] [RRC]  
**Characteristics:** 27,27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Railway (AN010) (continued)**

Curve

| Symbol Information                                                                                                 |                                                                                                                                                                                                                 |                                     |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>         | <b>Symbol Graphic Name:</b> LN_Black_Car-Line_NotInUse                                                                                                                                                          |                                     |
|                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                               |                                     |
|                                                                                                                    | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                           |                                     |
| <b>Element Name:</b> Black_Car-Line (Non-use)                                                                      | <b>Element Reference:</b> L00199                                                                                                                                                                                | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 3.3mm dash, 0.5mm gap) with Ticks (0.15mm wt, 1.5mm long) |                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-3.3mmLenDash-0.5mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset:1.65mm after that 3.8mm |                                     |
| <b>Element Name:</b> Black_0.15mm-3.3mmLenDash-0.5mmGapLine                                                        | <b>Element Reference:</b> L00198                                                                                                                                                                                | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 3.3mm dash, 0.5mm gap)                                    |                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 3.3mm <b>Dash Spacing:</b> 0.5mm                                                                                                            |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                     | <b>Element Reference:</b> P00044                                                                                                                                                                                | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                               |                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                           |                                     |

**Symbol Portrayal Rules**

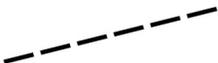
| Rule Ref | Description                                          | Criteria                                                                                                                                                                                                                                                                                                                                                                    |
|----------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000438  | Railway / construction, not usable / carline (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (RRC = 2 [Carline] or RRC = 13 [Marine Railway] or RRC = 14 [Tramway] or RRC = 15 [Funicular] or RRC = 24 [Museum] or RRC = 32 [Automated Transit System]) and (ZI017_RIR = 1000 [False] or ZI017_RIR = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Label Information**

|                                      |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / carline / under construction (curve)                 |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                       |
| <b>Label String:</b>                 | [ZI005_FNA] [RRC] "CONSTRUCTION"                               |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case) |
| <b>Label Description:</b>            | Railway / carline / not usable (curve)                         |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged])                  |
| <b>Label String:</b>                 | [ZI005_FNA] [RRC] "NOT USABLE"                                 |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case) |

**Symbol Sample**

*CONSTRUCTION*  
+ + + + + + + + + + + +
*DUBAI METRO ELEVATED AUTOMATED TRANSIT SYSTEM CONSTRUCTION*  
+ + + + + + + + + + + +
*NOT USABLE*  
+ + + + + + + + + + + +

| Symbol Information                                                                                           |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_Railway_DismantledDestroyed                                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway (AN010) (continued)**

Curve

|                                                                               |                                         |                                                         |
|-------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Black_0.3mm-2mmLenDash-0.5mmGapLine                      | <b>Element Reference:</b> L00036        | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 2.0mm dash, 0.5mm gap) |                                         |                                                         |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br>Lineweight: 0.3mm | <b>Dash Length:</b> 2.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                      |
|----------|-----------------------------------------|-----------------------------------------------|
| R000381  | Railway / dismantled, destroyed (curve) | (PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |

**Label Information**

|                                      |                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Railway / dismantled, destroyed (curve)                                                                                 |
| <b>Additional Labeling Criteria:</b> | N/A                                                                                                                     |
| <b>Label String:</b>                 | [PCF] "railway"                                                                                                         |
| <b>Characteristics:</b>              | 10,28<br>10 (Black, Light Condensed, Italic, 6 pt, Mixed case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |

**Symbol Sample**



**Railway\_Sidetrack (AN050)**

Curve

| Symbol Information                                                                                               |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NormalGauge_Electric                            |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                      |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway\_Sidetrack (AN050) (continued)**

**Curve**

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeElectric)                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00092 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 1.5mm long ) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track.<br><b>Repeating Point Interval 3:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track.<br><b>Note:</b> Tick is centered and 90 degrees to line. Bottom of Dot is 0.75mm from the center of the line |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                            | Criteria                                                                                                                                                                                                                                                                                           |
|----------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000124  | Railway Sidetrack / broad, standard / electric (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NarrowGauge_Electric                            |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway\_Sidetrack (AN050) (continued)**

**Curve**

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeElectric)                                   | <b>Element Reference:</b> L00090                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides<br><b>Repeating Point Interval 3:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track.<br><b>Note:</b> Tick is based 90 degrees to line and set alternate on either side of the line. Bottom of Dot is 0.75mm from the center of the line |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                     | <b>Element Reference:</b> L00008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                | <b>Element Reference:</b> P00038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                      | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                      | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |
| <b>Color Token:</b> Black                                                                      | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                   | Criteria                                                                                                                                                                                                                        |
|----------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000125  | Railway Sidetrack / narrow / electric (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NormalGauge_Non-Electric                        |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway\_Sidetrack (AN050) (continued)**

Curve

|                                                                                               |                                                                                                                                                                                                                                                           |                                  |                                     |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeNon-electric)                              |                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00141 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with repeating Black 0.15mm wt 1.5mm length ticks |                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Note:</b> Ticks are centered and 90 degrees to line. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                    |                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                       |                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                           |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                |                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                          |                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Black                                                                     | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                     |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                | Criteria                                                                                                                                                                                                                                                                                                                    |
|----------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000122  | Railway Sidetrack / broad, standard / non-electric (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NarrowGauge_Non-Electric                        |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                                 |                                                                                                                                                                                                                                                                                                  |                                  |                                     |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeNon-electric)                |                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00091 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 0.75mm long) |                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                       | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm<br><b>Note:</b> Tick is based 90 degrees to line and ticks alternate on either side of the line. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                      |                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                         |                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                 |                                                                                                                                                                                                                                                                                                  | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long            |                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Color Token:</b> Black                                                       | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                               |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000123  | Railway Sidetrack / narrow / non-electric (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Railway\_Sidetrack (AN050) (continued)**

Curve

Symbol Sample



Symbol Information

|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                                    | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NormalGauge_Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeElectricNon-use)                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00207 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 1.5mm long ) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Repeating Point Interval 3:</b> Initial offset: 3.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Note:</b> Tick is centered and 90 degrees to line. Bottom of Dot is 0.75mm from the center of the line |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 5.4mm <b>Dash Spacing:</b> 1.0mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 1.5mm <b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                                       | Criteria                                                                                                                                                                                                                                                                                                              |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000442  | Railway Sidetrack / construction, not usable / broad, standard / electric (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

Symbol Sample



**Railway\_Sidetrack (AN050) (continued)**

Curve

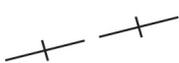
| Symbol Information                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>                          | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NarrowGauge_Electric_NotInUse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |
|                                                                                                                                     | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeElectricNon-use)                                                                 | <b>Element Reference:</b> L00208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 0.75mm long ) and 0.5mm Dots |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point 2:</b> Black_0.5mmFilledDot<br><b>Repeating Point 3:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Repeating Point Interval 2:</b> Initial offset: 2.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Repeating Point Interval 3:</b> Initial offset: 3.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track<br><b>Note:</b> Tick is based 90 degrees to line and set alternate on either side of the line. Bottom of Dot is 0.75mm from the center of the line |                                     |
| <b>Element Name:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                                         | <b>Element Reference:</b> L00205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap)                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 5.4mm <b>Dash Spacing:</b> 1.0mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                     | <b>Element Reference:</b> P00038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Length:</b> 0.75mm <b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                           | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |
| <b>Element Name:</b> Black_0.5mmFilledDot                                                                                           | <b>Element Reference:</b> P00049                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.5mm diameter filled circle                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Diameter:</b> 0.5mm<br><b>Note:</b> Circle is filled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                              | Criteria                                                                                                                                                                                                                                           |
|----------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000443  | Railway Sidetrack / construction, not usable / narrow / electric (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017_RGC = 2 [Narrow]) and (ZI017_RRA = 1 [Electrified Track] or ZI017_RRA = 3 [Overhead Electrified]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Symbol Sample**



| Symbol Information                                                                                           |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NormalGauge_Non-Electric_NotInUse               |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                      |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Railway\_Sidetrack (AN050) (continued)**

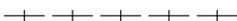
Curve

|                                                                                                                                |                                                                                                                                                                                                                                                                                                          |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeNon-electricNon-use)                                                        |                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00206 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Black 0.15mm wt 1.5mm long tick repeating |                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Note:</b> Ticks are centered and 90 degrees to line and centered with in the dash. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                                    |                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap)                                                |                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 5.4mm <b>Dash Spacing:</b> 1.0mm                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                                 |                                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.5mm length line with a 0.15mm lineweight                                                           |                                                                                                                                                                                                                                                                                                          |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                      | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                                                                    |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                           | Criteria                                                                                                                                                                                                                                                                                                                                       |
|----------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R000440  | Railway Sidetrack / construction, not usable / broad, standard / non-electric (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017_RGC = 1 [Broad] or ZI017_RGC = 3 [Standard] or ZI017_RGC = -999999 [No Information]) and (ZI017_RRA = 4 [Non-electrified] or ZI017_RRA = 999 [Other] or ZI017_RRA = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Black_RailwaySidetrack_NarrowGauge_Non-Electric_NotInUse               |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                                                                      |                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeNon-electricNon-use)                                              |                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00209 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 0.75mm long ) |                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                            | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine<br><b>Repeating Point:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm<br><b>Note:</b> Tick is based 90 degrees to line and ticks alternate on either side of the line. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                          |                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap)                                      |                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm <b>Dash Length:</b> 5.4mm <b>Dash Spacing:</b> 1.0mm                                                                                                                                                                                                              |                                  |                                     |
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                      |                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long                                                 |                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                            | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                                                                |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Railway\_Sidetrack (AN050) (continued)**

Curve

R000441 Railway Sidetrack / construction, not usable / narrow / non-electric (curve) (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged]) and (ZI017\_RGC = 2 [Narrow]) and (ZI017\_RRA = 4 [Non-electrified] or ZI017\_RRA = 999 [Other] or ZI017\_RRA = -999999 [No Information]) and (LOC = 44 [On Surface] or LOC = -999999 [No Information])

**Symbol Sample**



**Railway\_Yard (AN060)**

Surface

**Symbol Information**

|                                                                                                                                                                 |                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                 | <b>Symbol Graphic Name:</b> AR_Black_RailwayYard                                                                                                                                                                                                     |
|                                                                                                                                                                 | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                    |
|                                                                                                                                                                 | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and to the interior lines. Interior lines are added parallel to the longest axis of the feature with 0.4mm spacing between each line. |
| <b>Element Name:</b> Black_0.15mmRailway-Yard                                                                                                                   |                                                                                                                                                                                                                                                      |
| <b>Element Reference:</b> L00358                                                                                                                                |                                                                                                                                                                                                                                                      |
| <b>Element Type:</b> Line - Complex                                                                                                                             |                                                                                                                                                                                                                                                      |
| <b>Description:</b> Black 0.15mm Solid Line with Black Ticks (0.15mm wt, 1.0mm long) as a perimeter, with the same symbol running through the area spaced 0.4mm |                                                                                                                                                                                                                                                      |
| <b>Color Token:</b> Black                                                                                                                                       | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.15mm-1.0mmLenTick<br><b>Repeating Point Interval:</b> 6.4mm<br><b>Note:</b> Tick is centered and 90 degrees to line                                |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                                                                                      |                                                                                                                                                                                                                                                      |
| <b>Element Reference:</b> L00008                                                                                                                                |                                                                                                                                                                                                                                                      |
| <b>Element Type:</b> Line - Simple                                                                                                                              |                                                                                                                                                                                                                                                      |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                                                                                         |                                                                                                                                                                                                                                                      |
| <b>Color Token:</b> Black                                                                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                      |
| <b>Element Name:</b> Black_0.15mm-1.0mmLenTick                                                                                                                  |                                                                                                                                                                                                                                                      |
| <b>Element Reference:</b> P00043                                                                                                                                |                                                                                                                                                                                                                                                      |
| <b>Element Type:</b> Point - Simple                                                                                                                             |                                                                                                                                                                                                                                                      |
| <b>Description:</b> Black 1.0mm length line with a 0.15mm lineweight                                                                                            |                                                                                                                                                                                                                                                      |
| <b>Color Token:</b> Black                                                                                                                                       | <b>Parameters:</b><br><b>Orientation:</b> Centered 90 degrees to line                                                                                                                                                                                |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria        |
|----------|-------------------------------------|-----------------|
| R003126  | Railway Yard / large area (surface) | (ARA >= 390625) |

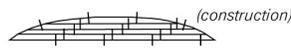
**Label Information**

|                                                                   |                                                                                                                                     |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway Yard / construction (surface)<br>(PCF = 1 [Construction])                                                                   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "(construction)"<br>28<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                                     |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway Yard / not usable (surface)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "(not usable)"<br>28<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case)                                                       |

**Railway\_Yard (AN060) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                                          |                                  |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RailwayYard                                                                                         |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                                                                                          | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                                                                                          |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                              |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria       |
|----------|-------------------------------------|----------------|
| R003735  | Railway Yard / small area (surface) | (ARA < 390625) |

**Label Information**

|                                                                   |                                                                                                                                     |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway Yard / usable (surface)<br>(PCF = 2 [Intact] or PCF = -999999 [No Information])                                             |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Railway yard"<br>10<br>10 (Black, Light Condensed, Italic, 6 pt, Mixed case)                                                       |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway Yard / construction (surface)<br>(PCF = 1 [Construction])                                                                   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Railway yard (construction)"<br>10<br>10 (Black, Light Condensed, Italic, 6 pt, Mixed case)                                        |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Railway Yard / not usable (surface)<br>(PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Railway yard (not usable)"<br>10<br>10 (Black, Light Condensed, Italic, 6 pt, Mixed case)                                          |

**Symbol Sample**



**Rapids (BH120)**

Surface

**Rapids (BH120) (continued)**

Surface

| Symbol Information                                                                                                      |                                                                                                                                                                        |                                  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>          | <b>Symbol Graphic Name:</b> PT_Cyan_Rapids                                                                                                                             |                                  |
|                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                      |                                  |
|                                                                                                                         | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. The two parallel cyan lines are perpendicular to watercourse. |                                  |
| <b>Element Name:</b> Cyan_0.2mm_1.3mmCasedLine                                                                          |                                                                                                                                                                        | <b>Element Reference:</b> P00195 |
| <b>Element Type:</b> Point - Simple                                                                                     |                                                                                                                                                                        |                                  |
| <b>Description:</b> Two Cyan 1.3mm length lines with a 0.2mm lineweight parallel with a 0.5mm spacing between the lines |                                                                                                                                                                        |                                  |
| <b>Color Token:</b> Cyan                                                                                                | <b>Parameters:</b>                                                                                                                                                     |                                  |
|                                                                                                                         | <b>Length:</b> 1.3mm                                                                                                                                                   | <b>Lineweight:</b> 0.2mm         |
|                                                                                                                         | <b>Note:</b> Spacing between lines is 0.5mm                                                                                                                            |                                  |

| Symbol Portrayal Rules |                        |          |
|------------------------|------------------------|----------|
| Rule Ref               | Description            | Criteria |
| R003197                | Rapids / all (surface) | ALL      |

| Label Information                    |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Rapids / all (surface)                               |
| <b>Additional Labeling Criteria:</b> | N/A                                                  |
| <b>Label String:</b>                 | "Rapids"                                             |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

| Symbol Sample                                                                       |  |
|-------------------------------------------------------------------------------------|--|
|  |  |

Curve

| Symbol Information                                                                                                      |                                                                                                                                                          |                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>        | <b>Symbol Graphic Name:</b> PT_Cyan_Rapids                                                                                                               |                                  |
|                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                        |                                  |
|                                                                                                                         | <b>Symbol Placement Instructions:</b> The point symbol is centered on the linear geometry. The two parallel cyan lines are perpendicular to watercourse. |                                  |
| <b>Element Name:</b> Cyan_0.2mm_1.3mmCasedLine                                                                          |                                                                                                                                                          | <b>Element Reference:</b> P00195 |
| <b>Element Type:</b> Point - Simple                                                                                     |                                                                                                                                                          |                                  |
| <b>Description:</b> Two Cyan 1.3mm length lines with a 0.2mm lineweight parallel with a 0.5mm spacing between the lines |                                                                                                                                                          |                                  |
| <b>Color Token:</b> Cyan                                                                                                | <b>Parameters:</b>                                                                                                                                       |                                  |
|                                                                                                                         | <b>Length:</b> 1.3mm                                                                                                                                     | <b>Lineweight:</b> 0.2mm         |
|                                                                                                                         | <b>Note:</b> Spacing between lines is 0.5mm                                                                                                              |                                  |

| Symbol Portrayal Rules |                      |          |
|------------------------|----------------------|----------|
| Rule Ref               | Description          | Criteria |
| R003198                | Rapids / all (curve) | ALL      |

| Label Information                    |                      |
|--------------------------------------|----------------------|
| <b>Label Description:</b>            | Rapids / all (curve) |
| <b>Additional Labeling Criteria:</b> | N/A                  |
| <b>Label String:</b>                 | "Rapids"             |

**Rapids (BH120) (continued)**

Curve

**Characteristics:** 16  
16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**

= Rapids

**Recycling\_Site (AB010)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |                                                         |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_RecyclingSite                                                              |                                  |                                                         |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                                         |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                                         |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  |                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003279  | Recycling Site / all (surface) | ALL      |

**Label Information**

**Label Description:** Recycling Site / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Recycling site"  
**Characteristics:** 1  
1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Recycling site

**Reef (BD120 - Maritime Data Store)**

Surface

**Symbol Information**

|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_BlackCyan_Reef                                                                                                                                                                                                                                                                                                                       |  |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                   |  |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry with the open ended part of the symbol directed towards the inside of the reef and the area is filled with the screened color. NOTE: This symbol is shown in conjunction with the Tidal Water symbol and should NOT mask out the Tidal Water symbol. |  |  |

**Reef (BD120 - Maritime Data Store) (continued)**

Surface

|                                                                                                                                                          |                                                                                                                                            |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> CoversUncovers-Fill                                                                                                                 |                                                                                                                                            | <b>Element Reference:</b> A00049 | <b>Element Type:</b> Area - Fill    |
| <b>Description:</b> Cyan-31 ScreenFill (Area Fill) coincident with Black-12 ScreenFill-15degree (Area Fill)                                              |                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Cyan-31_Black-12                                                                                                                     | <b>Parameters:</b><br><b>Note:</b> The two area fills are combined as one symbol                                                           |                                  |                                     |
| <b>Element Name:</b> Black_Reef                                                                                                                          |                                                                                                                                            | <b>Element Reference:</b> L00260 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black reef arc in a repeating pattern.                                                                                               |                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Repeating Point:</b> Black_ReefArc<br><b>Repeating Point Interval:</b> Point shapes connect together at each end. |                                  |                                     |
| <b>Element Name:</b> Black_ReefArc                                                                                                                       |                                                                                                                                            | <b>Element Reference:</b> P00207 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black arc with a 0.78 diameter with a 0.55mm line extending from each end (190 degrees and 170 degrees). All lineweights are 0.13mm. |                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Diameter:</b> 0.78mm<br><b>Note:</b> Overall height 0.8mm and width 0.86mm                                        |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria        |
|----------|---------------------------|-----------------|
| R003663  | Reef / standard (surface) | (ARA >= 390625) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Reef / all (surface)                                   |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 12<br>12 (Black, Regular, Italic 10-16 pt, Upper case) |

**Symbol Sample**



HERON REEF

Curve

| Symbol Information                                                                                                                                       |                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                          | <b>Symbol Graphic Name:</b> LN_Black_Reef                                                                                                                                            |
|                                                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                    |
|                                                                                                                                                          | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature with the open ended part of the symbol directed towards the inside of the reef. |
| <b>Element Name:</b> Black_Reef                                                                                                                          |                                                                                                                                                                                      |
| <b>Element Reference:</b> L00260                                                                                                                         |                                                                                                                                                                                      |
| <b>Element Type:</b> Line - Styled                                                                                                                       |                                                                                                                                                                                      |
| <b>Description:</b> Black reef arc in a repeating pattern.                                                                                               |                                                                                                                                                                                      |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.13mm<br><b>Repeating Point:</b> Black_ReefArc<br><b>Repeating Point Interval:</b> Point shapes connect together at each end.              |
| <b>Element Name:</b> Black_ReefArc                                                                                                                       |                                                                                                                                                                                      |
| <b>Element Reference:</b> P00207                                                                                                                         |                                                                                                                                                                                      |
| <b>Element Type:</b> Point - Simple                                                                                                                      |                                                                                                                                                                                      |
| <b>Description:</b> Black arc with a 0.78 diameter with a 0.55mm line extending from each end (190 degrees and 170 degrees). All lineweights are 0.13mm. |                                                                                                                                                                                      |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.13mm<br><b>Diameter:</b> 0.78mm<br><b>Note:</b> Overall height 0.8mm and width 0.86mm                                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Reef (BD120 - Maritime Data Store) (continued)**

Curve

R003662 Reef / all (curve) (LZN >= 625)

**Label Information**

**Label Description:** Reef / all (curve)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 6  
 6 (Black, Condensed, Italic 6-10 pt, Mixed case)

**Symbol Sample**



**Rice\_Field (BH135)**

Surface

**Symbol Information**

|                                    |                                                                                                                  |                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>          | <b>Symbol Graphic Name:</b> AR_Cyan_Rice                                                                         |                                  |
|                                    | <b>Apply Label to Symbol:</b> Yes                                                                                |                                  |
|                                    | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                      |                                  |
| <b>Element Name:</b> Cyan_RiceFill |                                                                                                                  | <b>Element Reference:</b> A00019 |
| <b>Description:</b> Cyan Rice Fill |                                                                                                                  |                                  |
| <b>Color Token:</b> Cyan           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_RiceFill in Annex I<br><b>Note:</b> Area Pattern #4 |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria |
|----------|----------------------------|----------|
| R003200  | Rice Field / all (surface) | ALL      |

**Label Information**

**Label Description:** Rice Field / terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 3 [Terraced])  
**Label String:** "Terraces"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Rig (AA040)**

Point

**Rig (AA040) (continued)**

Point

| Symbol Information                                                                                         |                                                             |                                  |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Rig_Inland             |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                           |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of dot |                                  |
| <b>Element Name:</b> Black_Rig_Inland                                                                      |                                                             | <b>Element Reference:</b> P00162 |
| <b>Element Type:</b> Point - Shape                                                                         |                                                             |                                  |
| <b>Description:</b> Black rig inland                                                                       |                                                             |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                          |                                  |
| <b>Note:</b> See Element: Black_Rig_Inland in Annex H for detailed drawing instructions                    |                                                             |                                  |

| Symbol Portrayal Rules |                                          |                                                                                               |
|------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------|
| Rule Ref               | Description                              | Criteria                                                                                      |
| R003272                | Rig / on shore / non-obstruction (point) | (HGT < 46) and (SRL = 2 [Inland] or SRL = 3 [At Shoreline] or SRL = -999999 [No Information]) |

| Label Information                    |                                                            |
|--------------------------------------|------------------------------------------------------------|
| <b>Label Description:</b>            | Rig / gas, water, brine / non-obstruction (point)          |
| <b>Additional Labeling Criteria:</b> | (PPO = 45 [Gas] or PPO = 122 [Water] or PPO = 149 [Brine]) |
| <b>Label String:</b>                 | [PPO]                                                      |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                |
| <b>Label Description:</b>            | Rig / oil / non-obstruction (point)                        |
| <b>Additional Labeling Criteria:</b> | (PPO = 83 [Petroleum])                                     |
| <b>Label String:</b>                 | "Oil"                                                      |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                |

| Symbol Sample                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

| Symbol Information                                                                                           |                                                             |                                  |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Rig_Offshore           |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                           |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of dot |                                  |
| <b>Element Name:</b> Black_Offshore_VO                                                                       |                                                             | <b>Element Reference:</b> P00161 |
| <b>Element Type:</b> Point - Shape                                                                           |                                                             |                                  |
| <b>Description:</b> Black vertical obstruction                                                               |                                                             |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                          |                                  |
| <b>Note:</b> See Element: Black_Offshore_VO in Annex H for detailed drawing instructions                     |                                                             |                                  |

| Symbol Portrayal Rules |                                          |                                     |
|------------------------|------------------------------------------|-------------------------------------|
| Rule Ref               | Description                              | Criteria                            |
| R003612                | Rig / offshore / non-obstruction (point) | (HGT < 46) and (SRL = 1 [Offshore]) |

| Label Information |  |
|-------------------|--|
|-------------------|--|

**Rig (AA040) (continued)**

Point

|                                      |                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Rig / oil / non-obstruction (point)                                                                               |
| <b>Additional Labeling Criteria:</b> | (PPO = 83 [Petroleum])<br>HGT value is converted from meters to feet.                                             |
| <b>Label String:</b>                 | "Oil rig"                                                                                                         |
| <b>Characteristics:</b>              | "("[HGT]")"<br>1,22,22,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)    |
| <b>Label Description:</b>            | Rig / gas, water, brine / non-obstruction (point)                                                                 |
| <b>Additional Labeling Criteria:</b> | (PPO = 45 [Gas] or PPO = 122 [Water] or PPO = 149 [Brine])<br>HGT value is converted from meters to feet.         |
| <b>Label String:</b>                 | [PPO] "rig"                                                                                                       |
| <b>Characteristics:</b>              | "("[HGT]")"<br>1,22,22,22,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case) |
| <b>Label Description:</b>            | Rig / unknown / non-obstruction (point)                                                                           |
| <b>Additional Labeling Criteria:</b> | (PPO= 999 [Other] or PPO = -999999 [No Information])<br>HGT value is converted from meters to feet.               |
| <b>Label String:</b>                 | "Rig"                                                                                                             |
| <b>Characteristics:</b>              | "("[HGT]")"<br>1,22,22,22<br>1 (Black, Condensed, 6 pt, Mixed case)<br>22 (Black, Condensed, 6 pt, Lower case)    |

**Symbol Sample**



**River (BH140)**

Surface

| Symbol Information                                                                                               |                                                                                                                                                                                                                                              |                                    |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_River_Perennial                                                                                                                                                                                          |                                    |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                            |                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. The linear symbology is masked where the edges of two water features overlap. |                                    |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                          | <b>Element Reference:</b> A00007                                                                                                                                                                                                             | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                              |                                                                                                                                                                                                                                              |                                    |
| <b>Color Token:</b> Cyan-31                                                                                      | <b>Parameters:</b><br><b>Screen Angle:</b> 45 degrees                                                                                                                                                                                        |                                    |
| <b>Element Name:</b> Cyan_0.2mmSolidLine                                                                         | <b>Element Reference:</b> L00015                                                                                                                                                                                                             | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt)                                                             |                                                                                                                                                                                                                                              |                                    |
| <b>Color Token:</b> Cyan                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                                               |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria                                                            |
|----------|-----------------------------|---------------------------------------------------------------------|
| R003202  | River / perennial (surface) | (Z1024_HYP = 1 [Perennial] or Z1024_HYP = -999999 [No Information]) |

**Label Information**

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>Label Description:</b>            | River / perennial / named (surface) |
| <b>Additional Labeling Criteria:</b> | N/A                                 |

**River (BH140) (continued)**  
Surface

**Label String:** [Z1005\_FNA]  
**Characteristics:** 37  
 37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                   |                                                                                                                                                                                                                                                 |                                                         |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Cyan_River_IntermittentDry                                                                                                                                                                                       |                                                         |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                               |                                                         |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. The linear symbology is masked where the edges of two water features overlap. |                                                         |
| <b>Element Name:</b> Cyan_DryDrainageFill                                         |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> A00020                        |
| <b>Description:</b> Cyan Dry Drainage Fill                                        |                                                                                                                                                                                                                                                 |                                                         |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_DryDrainageFill in Annex I<br><b>Note:</b> Area Pattern #95                                                                                                                        |                                                         |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                           |                                                                                                                                                                                                                                                 | <b>Element Reference:</b> L00041                        |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)      |                                                                                                                                                                                                                                                 |                                                         |
| <b>Color Token:</b> Cyan                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                                                  | <b>Dash Length:</b> 2.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                         | Criteria                                              |
|----------|-------------------------------------|-------------------------------------------------------|
| R003203  | River / intermittent, dry (surface) | (Z1024_HYP = 2 [Intermittent] or Z1024_HYP = 4 [Dry]) |

**Label Information**

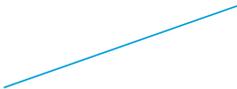
**Label Description:** River / non-perennial / named (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 37  
 37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)

**Symbol Sample**



**Curve**

**Symbol Information**

|                                                                                     |                                                                                                       |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_River_Perennial                                                   |  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |  |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |  |

**River (BH140) (continued)**

Curve

|                                                      |                                         |                                    |
|------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_0.2mmSolidLine             | <b>Element Reference:</b> L00015        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria                                                            |
|----------|---------------------------|---------------------------------------------------------------------|
| R003204  | River / perennial (curve) | (Z1024_HYP = 1 [Perennial] or Z1024_HYP = -999999 [No Information]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | River / perennial / named (curve)                      |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 58<br>58 (Cyan, Condensed, Italic, 7-9 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Cyan_River_IntermittentDry                                             |
|                           | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                              |                                         |                                                      |
|------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                      | <b>Element Reference:</b> L00041        | <b>Element Type:</b> Line - Styled                   |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                         |                                                      |
| <b>Color Token:</b> Cyan                                                     | <b>Parameters:</b><br>Lineweight: 0.2mm | <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria                                              |
|----------|-----------------------------------|-------------------------------------------------------|
| R003205  | River / intermittent, dry (curve) | (Z1024_HYP = 2 [Intermittent] or Z1024_HYP = 4 [Dry]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | River / non-perennial / named (curve)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 58<br>58 (Cyan, Condensed, Italic, 7-9 pt, Mixed case) |

**Symbol Sample**



**River Flow Arrow (No Code)**

Point

**River\_Flow\_Arrow (No Code) (continued)**

Point

| Symbol Information                                                                                         |                                                                                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Cyan_FlowArrow                                                                                                 |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                              |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The symbol is manually placed inside river areas or parallel to linear rivers. Origin: Center of symbol |                                  |
| <b>Element Name:</b> Cyan_FlowArrow                                                                        |                                                                                                                                               | <b>Element Reference:</b> P00200 |
| <b>Description:</b> Cyan flow arrow                                                                        |                                                                                                                                               |                                  |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b><br><b>Note:</b> See Element: Cyan_FlowArrow in Annex H for detailed drawing instructions                                   |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria                                            |
|----------|--------------------------|-----------------------------------------------------|
| R003649  | River Flow Arrow (point) | Portray when the direction of flow is not apparent. |

**Symbol Sample**



**Road (AP030)**

Curve

| Symbol Information                                                                                           |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_Usable_WideMedian__MultipleLanes           |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Road (AP030) (continued)**

Curve

|                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_AWHS_WideMedian_Usable                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00223 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 1.45mm Solid Line, Dk-Brown1815 1.15mm Solid Line, Black 0.55mm Solid Line, and PaperWhite 0.25mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                | <b>Parameters:</b><br><b>Line Style:</b> Black_1.45mmSolidLine<br><b>Line Style 2:</b> Dk-Brown1815_1.15mmSolidLine<br><b>Line Style 3:</b> Black_0.55mmSolidLine<br><b>Line Style 4:</b> PaperWhite_0.25mmSolidLine<br><b>Note:</b> Total of 4 lines combined together form the double cased line. Display Level: Bottom (1):Black 1.45mm Solid Line, (2):Dk-Brown1815 1.15mm Solid Line, (3):Black 0.55m Solid Line, Top (4):PaperWhite 0.25mm Solid Line. |                                  |                                     |
| <b>Element Name:</b> Black_1.45mmSolidLine                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00219 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 1.45mm Solid Line (1.45mm wt)                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 1.45mm                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_1.15mmSolidLine                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00220 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 1.15mm Solid Line (1.15mm wt)                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 1.15mm                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Element Name:</b> Black_0.55mmSolidLine                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00221 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.55mm Solid Line (0.55mm wt)                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.55mm                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.25mmSolidLine                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Element Reference:</b> L00222 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.25mm Solid Line (0.25mm wt)                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003570  | Road / wide median / usable / all weather / hard surface / multiple (curve) | (MWG > 250) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1001 [True]) or (MES = 1001 [True])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 2) |

**Label Information**

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / named / lanes (curve)                                                                                               |
| <b>Additional Labeling Criteria:</b> | (LTN > 4)                                                                                                                  |
| <b>Label String:</b>                 | [ZI005_FNA] [LTN] "LANES"                                                                                                  |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / named (curve)                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4)                                                                                                                 |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                |

**Symbol Sample**



Road (AP030) (continued)

Curve

| Symbol Information                                                                                            |                                                                                                                                                                                                                                                                                                                                                            |                                     |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                              | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_Usable_Median_MultipleLanes                                                                                                                                                                                                                                                                     |                                     |
|                                                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                          |                                     |
|                                                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                      |                                     |
| <b>Element Name:</b> Road_HardSurface_Usable_Median_MultipleLanes                                             | <b>Element Reference:</b> L00160                                                                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 1.0mm Solid Line, Dk-Brown1815 0.6mm Solid Line and Black 0.1mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                              | <b>Parameters:</b><br><b>Line Style:</b> Black_1.0mmSolidLine<br><b>Line Style 2:</b> Dk-Brown1815_0.6mmSolidLine<br><b>Line Style 3:</b> Black_0.1mmSolidLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 1.0mm Solid Line, (2):Dk-Brown1815 0.6mm Solid Line, Top (3):Black 0.1mm Solid Line |                                     |
| <b>Element Name:</b> Black_1.0mmSolidLine                                                                     | <b>Element Reference:</b> L00158                                                                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 1.0mm Solid Line (1.0mm wt)                                                         |                                                                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Black                                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 1.0mm                                                                                                                                                                                                                                                                                                             |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.6mmSolidLine                                                              | <b>Element Reference:</b> L00159                                                                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 0.6mm Solid Line (0.6mm wt)                                                  |                                                                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm                                                                                                                                                                                                                                                                                                             |                                     |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                     | <b>Element Reference:</b> L00007                                                                                                                                                                                                                                                                                                                           | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                         |                                                                                                                                                                                                                                                                                                                                                            |                                     |
| <b>Color Token:</b> Black                                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                                                                                                                                                                                                                                                             |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                                   | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003369  | Road / narrow median / usable / all weather / hard surface / multiple (curve) | (MWG <= 250) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1001 [True]) or (MES = 1001 [True])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 2) |

Label Information

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / named / lanes (curve)                                                                                               |
| <b>Additional Labeling Criteria:</b> | (LTN > 4)                                                                                                                  |
| <b>Label String:</b>                 | [ZI005_FNA] [LTN] "LANES"                                                                                                  |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / named (curve)                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4)                                                                                                                 |
| <b>Label String:</b>                 | [ZI005_FNA]                                                                                                                |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                |

Symbol Sample



Road (AP030) (continued)

Curve

| Symbol Information                                                                    |                                                                                                                                                                                                                                                                                    |                                     |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|      | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_Usable_NoMedian_MultipleLanes                                                                                                                                                                                           |                                     |
|                                                                                       | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                  |                                     |
|                                                                                       | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                              |                                     |
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_MultipleLanes                   | <b>Element Reference:</b> L00157                                                                                                                                                                                                                                                   | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.8mm Solid Line and Dk-Brown1815 0.5mm Solid Line combined |                                                                                                                                                                                                                                                                                    |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.8mmSolidLine<br><b>Line Style 2:</b> Dk-Brown1815_0.5mmSolidLine<br><b>Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.8mm Solid Line, Top (2):Dk-Brown1815 0.5mm Solid Line. |                                     |
| <b>Element Name:</b> Black_0.8mmSolidLine                                             | <b>Element Reference:</b> L00155                                                                                                                                                                                                                                                   | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.8mm Solid Line (0.8mm wt)                                 |                                                                                                                                                                                                                                                                                    |                                     |
| <b>Color Token:</b> Black                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.8mm                                                                                                                                                                                                                                     |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.5mmSolidLine                                      | <b>Element Reference:</b> L00156                                                                                                                                                                                                                                                   | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 0.5mm Solid Line (0.5mm wt)                          |                                                                                                                                                                                                                                                                                    |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                                                                                                                                                     |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                               | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003368  | Road / usable / no median / all weather / hard surface / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (Z1016_WTC = 1 [All-weather] or Z1016_WTC = 4 [Limited All-weather] or Z1016_WTC = 5 [Closed in Winter]) and (Z1016_ROC = 7 [Rigid Pavement] or Z1016_ROC = 8 [Concrete] or Z1016_ROC = 9 [Asphalt] or Z1016_ROC = 10 [Asphalt over Concrete] or Z1016_ROC = 11 [Cobble-stone] or Z1016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 3) |

**Label Information**

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / named / lanes (curve)                                                                                               |
| <b>Additional Labeling Criteria:</b> | (LTN > 4)                                                                                                                  |
| <b>Label String:</b>                 | [Z1005_FNA] [LTN] "LANES"                                                                                                  |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / named (curve)                                                                                                       |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4)                                                                                                                 |
| <b>Label String:</b>                 | [Z1005_FNA]                                                                                                                |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                                |

**Symbol Sample**



Road (AP030) (continued)

Curve

| Symbol Information                                                                                         |                                                                                                                                                                                                                                                                                        |                                     |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_Usable_NoMedian_2Lane                                                                                                                                                                                                       |                                     |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                       |                                     |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                  |                                     |
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_2Lane                                                | <b>Element Reference:</b> L00343                                                                                                                                                                                                                                                       | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.65mm Solid Line and Dk-Brown1815 0.45mm Solid Line combined                    |                                                                                                                                                                                                                                                                                        |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br><b>Line Style:</b> Black_0.65mmSolidLine<br><b>Line Style 2:</b> Dk-Brown1815_0.45mmSolidLine<br><b>Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.65mm Solid Line, Top (2):Dk-Brown1815 0.45mm Solid Line. |                                     |
| <b>Element Name:</b> Black_0.65mmSolidLine                                                                 | <b>Element Reference:</b> L00341                                                                                                                                                                                                                                                       | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.65mm Solid Line (0.65mm wt)                                                    |                                                                                                                                                                                                                                                                                        |                                     |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.65mm                                                                                                                                                                                                                                        |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.45mmSolidLine                                                          | <b>Element Reference:</b> L00342                                                                                                                                                                                                                                                       | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 0.45mm Solid Line (0.45mm wt)                                             |                                                                                                                                                                                                                                                                                        |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.45mm                                                                                                                                                                                                                                        |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                             | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003720  | Road / usable / no median / all weather / hard surface / 2 lane (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 2) |

**Symbol Sample**



| Symbol Information                                                                                           |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_Usable_NoMedian_1Lane                      |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                      |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                       |                                                                                                                                                                                                                                                                                     |                                  |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_1Lane                           |                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00154 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.5mm Solid Line and Dk-Brown1815 0.3mm Solid Line combined |                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Line Style:</b> Black_0.5mmSolidLine<br><b>Line Style 2:</b> Dk-Brown1815_0.3mmSolidLine<br><b>Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.5mm Solid Line, Top (2): Dk-Brown1815 0.3mm Solid Line. |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmSolidLine                                             |                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00014 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.5mm Solid Line (0.5mm wt)                                 |                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                             | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.3mmSolidLine                                      |                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00105 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 0.3mm Solid Line (0.3mm wt)                          |                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                      |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                             | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003367  | Road / usable / no median / all weather / hard surface / 1 lane (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 1) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_LooseSurface_Usable_NoMedian_MultipleLanes             |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_Usable_NoMedian_MultipleLanes                                                                |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00162 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.8mm Solid Line, PaperWhite 0.5mm Solid Line and Dk-Brown1815 0.5mm 3mm Len Dash 1.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                    | <b>Parameters:</b><br><b>Line Style:</b> Black_0.8mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.5mmSolidLine<br><b>Line Style 3:</b> Dk-Brown1815_0.5mm-3.0mmLenDash-1.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.8mm Solid Line, (2):PaperWhite 0.5mm Solid Line, Top (3):Dk-Brown1815 0.3mm-3mm Len Dash-1.5mm Gap Line |                                  |                                     |
| <b>Element Name:</b> Black_0.8mmSolidLine                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00155 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.8mm Solid Line (0.8mm wt)                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.8mm                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.5mmSolidLine                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00186 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.5mm Solid Line (0.5mm wt)                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.5mm-3.0mmLenDash-1.5mmGapLine                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00192 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 3.0mm dash, 1.5mm gap)                                                |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm <b>Dash Length:</b> 3.0mm <b>Dash Spacing:</b> 1.5mm                                                                                                                                                                                                                                                                                                    |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                                | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003371  | Road / usable / no median / all weather / loose surface / multiple (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (Z1016_WTC = 1 [All-weather] or Z1016_WTC = 4 [Limited All-weather] or Z1016_WTC = 5 [Closed in Winter]) and (Z1016_ROC = 1 [Unimproved] or Z1016_ROC = 2 [Stabilized Earth] or Z1016_ROC = 3 [Flexible Pavement] or Z1016_ROC = 4 [Aggregate] or Z1016_ROC = 5 [Macadam] or Z1016_ROC = 6 [Bound Surface] or Z1016_ROC = 13 [Metal] or Z1016_ROC = 14 [Wood] or Z1016_ROC = 15 [Corduroy] or Z1016_ROC = 16 [Wood Plank] or Z1016_ROC = 999 [Other] or Z1016_ROC = -999999 [No Information]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 3) |

Label Information

|                                      |                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / lanes (curve)                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (LTN > 4)                                                                                                               |
| <b>Label String:</b>                 | [LTN] "LANES"                                                                                                           |
| <b>Characteristics:</b>              | 28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |

Symbol Sample



Symbol Information

|  |                                                                                                       |
|--|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_LooseSurface_Usable_NoMedian_2Lane                     |
|  | <b>Apply Label to Symbol:</b> No                                                                      |
|  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_Usable_NoMedian_2Lane                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00345 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.65mm Solid Line, PaperWhite 0.45mm Solid Line and Dk-Brown1815 0.45mm 3.0mm Len Dash 1.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                         | <b>Parameters:</b><br><b>Line Style:</b> Black_0.65mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.45mmSolidLine<br><b>Line Style 3:</b> Dk-Brown1815_0.45mm-3.0mmLenDash-1.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.65mm Solid Line, (2):PaperWhite 0.45mm Solid Line, Top (3):Dk-Brown1815 0.45mm-3.0mm Len Dash-1.5mm Gap Line |                                  |                                     |
| <b>Element Name:</b> Black_0.65mmSolidLine                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00341 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.65mm Solid Line (0.65mm wt)                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.65mm                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.45mmSolidLine                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.45mm Solid Line (0.45mm wt)                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.45mm                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.45mm-3.0mmLenDash-1.5mmGapLine                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00344 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.45mm Dashed Line (0.45mm wt, 3.0mm dash, 1.5mm gap)                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.45mm <b>Dash Length:</b> 3.0mm <b>Dash Spacing:</b> 1.5mm                                                                                                                                                                                                                                                                                                           |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003721  | Road / usable / no median / all weather / loose surface / 2 lane (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (Z1016_WTC = 1 [All-weather] or Z1016_WTC = 4 [Limited All-weather] or Z1016_WTC = 5 [Closed in Winter]) and (Z1016_ROC = 1 [Unimproved] or Z1016_ROC = 2 [Stabilized Earth] or Z1016_ROC = 3 [Flexible Pavement] or Z1016_ROC = 4 [Aggregate] or Z1016_ROC = 5 [Macadam] or Z1016_ROC = 6 [Bound Surface] or Z1016_ROC = 13 [Metal] or Z1016_ROC = 14 [Wood] or Z1016_ROC = 15 [Corduroy] or Z1016_ROC = 16 [Wood Plank] or Z1016_ROC = 999 [Other] or Z1016_ROC = -999999 [No Information]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 2) |

Symbol Sample



Symbol Information

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_LooseSurface_Usable_NoMedian_1Lane                     |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_Usable_NoMedian_1Lane                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00161 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.5mm Solid Line, PaperWhite 0.3mm Solid Line and Dk-Brown1815 0.3mm 3mm Len Dash 1.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                    | <b>Parameters:</b><br><b>Line Style:</b> Black_0.5mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.3mmSolidLine<br><b>Line Style 3:</b> Dk-Brown1815_0.3mm-3.0mmLenDash-1.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.5mm Solid Line, (2):PaperWhite 0.3mm Solid Line, Top (3):Dk-Brown1815 0.3mm-3mm Len Dash-1.5mm Gap Line |                                  |                                     |
| <b>Element Name:</b> Black_0.5mmSolidLine                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00014 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.5mm Solid Line (0.5mm wt)                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.3mmSolidLine                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.3mm Solid Line (0.3mm wt)                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.3mm-3.0mmLenDash-1.5mmGapLine                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00191 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.3mm Dashed Line (0.3mm wt, 3.0mm dash, 1.5mm gap)                                                |                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 3.0mm <b>Dash Spacing:</b> 1.5mm                                                                                                                                                                                                                                                                                                    |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                              | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003370  | Road / usable / no median / all weather / loose surface / 1 lane (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 1 [Unimproved] or ZI016_ROC = 2 [Stabilized Earth] or ZI016_ROC = 3 [Flexible Pavement] or ZI016_ROC = 4 [Aggregate] or ZI016_ROC = 5 [Macadam] or ZI016_ROC = 6 [Bound Surface] or ZI016_ROC = 13 [Metal] or ZI016_ROC = 14 [Wood] or ZI016_ROC = 15 [Corduroy] or ZI016_ROC = 16 [Wood Plank] or ZI016_ROC = 999 [Other] or ZI016_ROC = -999999 [No Information]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 1) |

Symbol Sample



Symbol Information

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_FairWeather_Usable                                                |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                      |                                                                                                                                                                                                                                                                                |                                  |                                     |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Road_CasedLine                                            |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00167 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.6mm Solid Line and PaperWhite 0.3mm Solid Line combined. |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Line Style:</b> Black_0.6mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.3mmSolidLine<br><b>Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.6mm Solid Line, Top (2):PaperWhite 0.3mm Solid Line. |                                  |                                     |
| <b>Element Name:</b> Black_0.6mmSolidLine                                            |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00153 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.6mm Solid Line (0.6mm wt)                                |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.3mmSolidLine                                       |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.3mm Solid Line (0.3mm wt)                           |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                 |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003366  | Road / usable / fair-weather / unimproved (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (ZI016_WTC = 2 [Fair-weather] or ZI016_WTC = 3 [Winter Only] or ZI016_WTC = 999 [Other] or ZI016_WTC = -999999 [No Information]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Road_Street_Usable                                                     |
|                           | <b>Apply Label to Symbol:</b> No                                                                      |
|                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

|                                                                                      |                                                                                                                                                                                                                                                                                |                                  |                                     |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Road_CasedLine                                            |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00167 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.6mm Solid Line and PaperWhite 0.3mm Solid Line combined. |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Line Style:</b> Black_0.6mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.3mmSolidLine<br><b>Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.6mm Solid Line, Top (2):PaperWhite 0.3mm Solid Line. |                                  |                                     |
| <b>Element Name:</b> Black_0.6mmSolidLine                                            |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00153 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.6mm Solid Line (0.6mm wt)                                |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> Black                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.3mmSolidLine                                       |                                                                                                                                                                                                                                                                                | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.3mm Solid Line (0.3mm wt)                           |                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                       | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                 |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                        | Criteria                                                                                                                                |
|----------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| R003573  | Road / usable / street / not through route (curve) | (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (TYP = 33 [Street]) and (THR = 1000 [False] or THR = -999999 [No Information]) |

Road (AP030) (continued)

Curve

Symbol Sample



| Symbol Information                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                                                 | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_NotUsable_WideMedian_MultipleLanes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|                                                                                                                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
|                                                                                                                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                     |
| <b>Element Name:</b> Road_AWHS_WideMedian_NotUsable                                                                                                                                                                              | <b>Element Reference:</b> L00228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 1.45mm Solid Line, Black 1.45mm 2.5mm Dashed 0.5mm Gap Line, Dk-Brown1815 1.15mm 2.5mm Dashed 0.5mm Gap Line, Black 0.55mm 2.5mm Dashed 0.5mm Gap Line, and PaperWhite 0.25mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                                                                                                 | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_1.45mmSolidLine<br><b>Line Style 2:</b> Black_1.45mm_2.5mmDashed-0.5mmGapLine<br><b>Line Style 3:</b> Dk-Brown1815_1.15mm_2.5mmDashed-0.5mmGapLine<br><b>Line Style 4:</b> Black_0.55mm_2.5mmDashed-0.5mmGapLine<br><b>Line Style 5:</b> PaperWhite_0.25mmSolidLine<br><b>Note:</b> Total of 5 lines combined together form the double cased line. Display Level: Bottom<br>(1):PaperWhite 1.45mm Line, (2):Black_1.45mm_2.5mmDashedLine,<br>(3):Dk-Brown1815_1.15mm_2.5mmDashedLine, (4):Black_0.55mm_2.5mmDashedLine, Top<br>(5):PaperWhite 0.25mm Line. |                                     |
| <b>Element Name:</b> PaperWhite_1.45mmSolidLine                                                                                                                                                                                  | <b>Element Reference:</b> L00224                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 1.45mm Solid Line (1.45mm wt)                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 1.45mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Element Name:</b> Black_1.45mm_2.5mmDashed-0.5mmGapLine                                                                                                                                                                       | <b>Element Reference:</b> L00225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black Dashed Line (1.45mm wt, 2.5mm dash, 0.5mm gap)                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 1.45mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| <b>Element Name:</b> Dk-Brown1815_1.15mm_2.5mmDashed-0.5mmGapLine                                                                                                                                                                | <b>Element Reference:</b> L00226                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Dk-Brown1815 Dashed Line (1.15mm wt, 2.5mm dash, 0.5mm gap)                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 1.15mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| <b>Element Name:</b> Black_0.55mm_2.5mmDashed-0.5mmGapLine                                                                                                                                                                       | <b>Element Reference:</b> L00227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black Dashed Line (0.55mm wt, 2.5mm dash, 0.5mm gap)                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.55mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
| <b>Element Name:</b> PaperWhite_0.25mmSolidLine                                                                                                                                                                                  | <b>Element Reference:</b> L00222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.25mm Solid Line (0.25mm wt)                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                                     | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003571  | Road / wide median / not usable / all weather / hard surface / multiple (curve) | (MWG > 250) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and ((SEP = 1001 [True]) or (MES = 1001 [True])) and (Z1016_WTC = 1 [All-weather] or Z1016_WTC = 4 [Limited All-weather] or Z1016_WTC = 5 [Closed in Winter]) and (Z1016_ROC = 7 [Rigid Pavement] or Z1016_ROC = 8 [Concrete] or Z1016_ROC = 9 [Asphalt] or Z1016_ROC = 10 [Asphalt over Concrete] or Z1016_ROC = 11 [Cobble-stone] or Z1016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 2) |

Label Information

**Road (AP030) (continued)**

Curve

|                                      |                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / lanes / construction (curve)                                                                                     |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 1 [Construction])                                                                                  |
| <b>Label String:</b>                 | LTN] "LANES CONSTRUCTION"                                                                                               |
| <b>Characteristics:</b>              | 28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / lanes / not usable (curve)                                                                                       |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])              |
| <b>Label String:</b>                 | [LTN] "LANES NOT USABLE"                                                                                                |
| <b>Characteristics:</b>              | 28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / construction (curve)                                                                                             |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 1 [Construction])                                                                                 |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                                                          |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |
| <b>Label Description:</b>            | Road / not usable (curve)                                                                                               |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])             |
| <b>Label String:</b>                 | "NOT USABLE"                                                                                                            |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |

**Symbol Sample**



| Symbol Information            |                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_NotUsable_Median_MultipleLanes             |
|                               | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_HardSurface_NotUsable_Median_MultipleLanes                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00171 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 1.0mm Solid Line, Black 1.0mm-2.5mmLenDash-0.5mmGapLine, Dk-Brown1815 0.6mm-2.5mmLenDash-0.5mmGapLine, and Black 0.1mm-2.5mmLenDash-0.5mmGapLine combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_1.0mmSolidLine<br><b>Line Style 2:</b> Black_1.0mm-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> Dk-Brown1815_0.6mm-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 4:</b> Black_0.1mm-2.5mmLenDash-0.5mmGapLine<br><b>Note:</b> Total of 4 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 1.0mm Line, (2):Black_1.0mm-2.5mmLenDash-0.5mmLine, (3):Dk-Brown1815_0.6mm-2.5mmLenDash-0.5mmLine, Top (4):Black_0.1mm-2.5mmLenDash-0.5mmLine. Gaps are coincident |                                  |                                     |
| <b>Element Name:</b> PaperWhite_1.0mmSolidLine                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00184 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 1.0mm Solid Line (1.0mm wt)                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 1.0mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Black_1.0mm-2.5mmLenDash-0.5mmGapLine                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00168 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 1.0mm Dashed Line (1.0mm wt, 2.5mm dash, 0.5mm gap)                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 1.0mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.6mm-2.5mmLenDash-0.5mmGapLine                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00169 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.6mm Dashed Line (0.6mm wt, 2.5mm dash, 0.5mm gap)                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
| <b>Element Name:</b> Black_0.1mm-2.5mmLenDash-0.5mmGapLine                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00170 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 2.5mm dash, 0.5mm gap)                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                                                                       | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003374  | Road / narrow median / not usable / all weather / hard surface / multiple (curve) | (MWG <= 250) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and ((SEP = 1001 [True]) or (MES = 1001 [True])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 2) |

Label Information

|                                      |                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / lanes / construction (curve)                                                                                     |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 1 [Construction])                                                                                  |
| <b>Label String:</b>                 | [LTN] "LANES CONSTRUCTION"                                                                                              |
| <b>Characteristics:</b>              | 28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / lanes / not usable (curve)                                                                                       |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])              |
| <b>Label String:</b>                 | [LTN] "LANES NOT USABLE"                                                                                                |
| <b>Characteristics:</b>              | 28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / construction (curve)                                                                                             |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 1 [Construction])                                                                                 |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                                                          |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |

**Road (AP030) (continued)**

**Curve**

**Label Description:** Road / not usable (curve)  
**Additional Labeling Criteria:** (LTN <= 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])

**Label String:** "NOT USABLE"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                         | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_NotUsable_NoMedian_MultipleLanes                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                     |
|                                                                                                                                                          | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
|                                                                                                                                                          | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
| <b>Element Name:</b> Road_HardSurface_NotUsable_NoMedian_MultipleLanes                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00174 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 0.8mm Solid Line, Black 0.8mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.5mm 2.5mm Len Dash 0.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                         | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_0.8mmSolidLine<br><b>Line Style 2:</b> Black_0.8-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> Dk-Brown1815_0.5mm-2.5mmLenDash-0.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.8mm Solid Line, (2):Black_0.8mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815_0.5mm-2.5mmLenDash-0.5mmGapLine. The gaps are coincident between the two lines. |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.8mmSolidLine                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00183 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.8mm Solid Line (0.8mm wt)                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.8mm                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.8-2.5mmLenDash-0.5mmGapLine                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00172 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.8mm Dashed Line (0.8mm wt, 2.5mm dash, 0.5mm gap)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.8mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.5mm-2.5mmLenDash-0.5mmGapLine                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00173 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 2.5mm dash, 0.5mm gap)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                   | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003373  | Road / not usable / no median / all weather / hard surface / multiple (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN >= 3) |

**Label Information**

**Label Description:** Road / lanes / construction (curve)  
**Additional Labeling Criteria:** (LTN > 4) and (PCF = 1 [Construction])

Road (AP030) (continued)

Curve

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label String:</b>                 | [LTN] "LANES CONSTRUCTION"                                                                                                 |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / lanes / not usable (curve)                                                                                          |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                 |
| <b>Label String:</b>                 | [LTN] "LANES NOT USABLE"                                                                                                   |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / construction (curve)                                                                                                |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 1 [Construction])                                                                                    |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                                                             |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |
| <b>Label Description:</b>            | Road / not usable (curve)                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                |
| <b>Label String:</b>                 | "NOT USABLE"                                                                                                               |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |

Symbol Sample



Symbol Information

|                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                                                             | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_NotUsable_NoMedian_2Lane                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
|                                                                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
|                                                                                                                                                             | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> Road_HardSurface_NotUsable_NoMedian_2Lane                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00349 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 0.65mm Solid Line, Black 0.65mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.45mm 2.5mm Len Dash 0.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                            | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_0.65mmSolidLine<br><b>Line Style 2:</b> Black_0.65-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level:Bottom (1):PaperWhite 0.65mm Solid Line, (2):Black_0.65mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine. Gaps are coincident between the two lines. |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.65mmSolidLine                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00346 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.65mm Solid Line (0.65mm wt)                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.65mm                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Element Name:</b> Black_0.65-2.5mmLenDash-0.5mmGapLine                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00347 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.65mm Dashed Line (0.65mm wt, 2.5mm dash, 0.5mm gap)                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.65mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Element Reference:</b> L00348 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.45mm Dashed Line (0.45mm wt, 2.5mm dash, 0.5mm gap)                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                            | <b>Parameters:</b><br><b>Lineweight:</b> 0.45mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     |

**Road (AP030) (continued)**

Curve

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003722  | Road / not usable / no median / all weather / hard surface / 2 lane (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 2) |

**Label Information**

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / construction (curve)                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                               |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                  |
| <b>Label Description:</b>            | Road / not usable (curve)                                                                    |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "NOT USABLE"                                                                                 |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                  |

**Symbol Sample**

*CONSTRUCTION*



*NOT USABLE*



**Symbol Information**

|                                                                                                                  |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_HardSurface_NotUsable_NoMedian_1Lane                   |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

Road (AP030) (continued)

Curve

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Road_HardSurface_NotUsable_NoMedian_1Lane                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00165 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 0.5mm Solid Line, Black_0.5mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.3mm 2.5mm Len Dash 0.5mm Gap Line combined |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                         | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_0.5mmSolidLine<br><b>Line Style 2:</b> Black_0.5mm-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> Dk-Brown1815_0.3mm-2.5mmLenDash-0.5mmGapLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.5mm Solid Line, (2):Black_0.5mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815_0.3mm-2.5mmLenDash-0.5mmGapLine. The gaps are coincident between the two lines. |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.5mmSolidLine                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00186 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.5mm Solid Line (0.5mm wt)                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                                           | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Element Name:</b> Black_0.5mm-2.5mmLenDash-0.5mmGapLine                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00340 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.5mm Dashed Line (0.5mm wt, 2.5mm dash, 0.5mm gap)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                                | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_0.3mm-2.5mmLenDash-0.5mmGapLine                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> L00164 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Dk-Brown1815 0.3mm Dashed Line (0.3mm wt, 2.5mm dash, 0.5mm gap)                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                                 | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003372  | Road / not usable / no median / all weather / hard surface / 1 lane (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and ((SEP = 1000 [False] or SEP = -999999 [No Information]) or (MES = 1000 [False] or MES = -999999 [No Information])) and (ZI016_WTC = 1 [All-weather] or ZI016_WTC = 4 [Limited All-weather] or ZI016_WTC = 5 [Closed in Winter]) and (ZI016_ROC = 7 [Rigid Pavement] or ZI016_ROC = 8 [Concrete] or ZI016_ROC = 9 [Asphalt] or ZI016_ROC = 10 [Asphalt over Concrete] or ZI016_ROC = 11 [Cobble-stone] or ZI016_ROC = 12 [Brick]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) and (LTN = 1) |

**Label Information**

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / construction (curve)                                                                  |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])                                                                     |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                               |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                  |
| <b>Label Description:</b>            | Road / not usable (curve)                                                                    |
| <b>Additional Labeling Criteria:</b> | (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "NOT USABLE"                                                                                 |
| <b>Characteristics:</b>              | 27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                  |

**Symbol Sample**

----- CONSTRUCTION -----

----- NOT USABLE -----



**Road (AP030) (continued)**

Curve

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Road / lanes / not usable (curve)                                                                                          |
| <b>Additional Labeling Criteria:</b> | (LTN > 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                 |
| <b>Label String:</b>                 | [LTN] "LANES NOT USABLE"                                                                                                   |
| <b>Characteristics:</b>              | 27,28,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)<br>28 (Black, Light Condensed, Italic, 6 pt, Lower case) |
| <b>Label Description:</b>            | Road / construction (curve)                                                                                                |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 1 [Construction])                                                                                    |
| <b>Label String:</b>                 | "CONSTRUCTION"                                                                                                             |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |
| <b>Label Description:</b>            | Road / not usable (curve)                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (LTN <= 4) and (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                |
| <b>Label String:</b>                 | "NOT USABLE"                                                                                                               |
| <b>Characteristics:</b>              | 27,27<br>27 (Black, Light Condensed, Italic, 6 pt, Upper case)                                                             |

**Symbol Sample**



| Symbol Information                                                                  |                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Road_AllWeather_LooseSurface_NotUsable_NoMedian_2Lane                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |





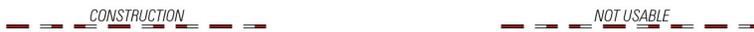
**Road (AP030) (continued)**

**Curve**

**Label Description:** Road / construction (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])  
**Label String:** "CONSTRUCTION"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Road / not usable (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** "NOT USABLE"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                                                                  | <b>Symbol Graphic Name:</b> LN_Road_FairWeather_NotUsable                                                                                                                                                                                                                                                                                                                                         |                                  |
|                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                 |                                  |
|                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                             |                                  |
| <b>Element Name:</b> Black_0.6mm_2.5mmDashed-0.5mmGap_CasedLine                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00229 |
| <b>Description:</b> PaperWhite 0.6mm Solid Line, Black 0.6mm 2.5mm Len Dash 0.5mm Gap Line, PaperWhite 0.3mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_0.6mmSolidLine<br><b>Line Style 2:</b> Black_0.6mm-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> PaperWhite_0.3mmSolidLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.6mm Solid Line, (2):Black_0.6mm-2.5mmLenDash-0.5mmGapLine, Top (3):PaperWhite 0.3mm Solid Line. |                                  |
| <b>Element Name:</b> PaperWhite_0.6mmSolidLine                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00182 |
| <b>Description:</b> PaperWhite 0.6mm Solid Line (0.6mm wt)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| <b>Color Token:</b> PaperWhite                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm                                                                                                                                                                                                                                                                                                                                                    |                                  |
| <b>Element Name:</b> Black_0.6mm-2.5mmLenDash-0.5mmGapLine                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00163 |
| <b>Description:</b> Black 0.6mm Dashed Line (0.6mm wt, 2.5mm dash, 0.5mm gap)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                               |                                  |
| <b>Element Name:</b> PaperWhite_0.3mmSolidLine                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00166 |
| <b>Description:</b> PaperWhite 0.3mm Solid Line (0.3mm wt)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |
| <b>Color Token:</b> PaperWhite                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                    |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                           | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003572  | Road / not usable / fair-weather / unimproved (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (ZI016_WTC = 2 [Fair-weather] or ZI016_WTC = 3 [Winter Only] or ZI016_WTC = 999 [Other] or ZI016_WTC = -999999 [No Information]) and (TYP = 1 [Road] or TYP = 5 [Boulevard] or TYP = 9 [Avenue] or TYP = 13 [Drive] or TYP = 17 [Circle] or TYP = 21 [Close] or TYP = 25 [Parkway] or TYP = 29 [Lane] or TYP = 37 [Terrace] or TYP = 41 [Motorway] or TYP = 45 [Place] or TYP = 47 [Limited Access Motorway] or TYP = 999 [Other] or TYP = -999999 [No Information]) |

**Label Information**

**Road (AP030) (continued)**

**Curve**

**Label Description:** Road / construction (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])  
**Label String:** "CONSTRUCTION"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Road / not usable (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** "NOT USABLE"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**

=====*CONSTRUCTION*=====

=====*NOT USABLE*=====

**Symbol Information**

|                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                 | <b>Symbol Graphic Name:</b> LN_Road_Street_NotUsable                                                                                                                                                                                                                                                                                                                                              |                                  |                                     |
|                                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                     |
|                                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                                                             |                                  |                                     |
| <b>Element Name:</b> Black_0.6mm_2.5mmDashed-0.5mmGap_CasedLine                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00229 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> PaperWhite 0.6mm Solid Line, Black 0.6mm 2.5mm Len Dash 0.5mm Gap Line, PaperWhite 0.3mm Solid Line combined |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Line Style:</b> PaperWhite_0.6mmSolidLine<br><b>Line Style 2:</b> Black_0.6mm-2.5mmLenDash-0.5mmGapLine<br><b>Line Style 3:</b> PaperWhite_0.3mmSolidLine<br><b>Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.6mm Solid Line, (2):Black_0.6mm-2.5mmLenDash-0.5mmGapLine, Top (3):PaperWhite 0.3mm Solid Line. |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.6mmSolidLine                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00182 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.6mm Solid Line (0.6mm wt)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Black_0.6mm-2.5mmLenDash-0.5mmGapLine                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00163 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.6mm Dashed Line (0.6mm wt, 2.5mm dash, 0.5mm gap)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                        | <b>Parameters:</b><br><b>Lineweight:</b> 0.6mm <b>Dash Length:</b> 2.5mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Element Name:</b> PaperWhite_0.3mmSolidLine                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> PaperWhite 0.3mm Solid Line (0.3mm wt)                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                     |
| <b>Color Token:</b> PaperWhite                                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.3mm                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                            | Criteria                                                                                                                                                                                                  |
|----------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003574  | Road / not usable / street / not through route (curve) | (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) and (TYP = 33 [Street]) and (THR = 1000 [False] or THR = -999999 [No Information]) |

**Label Information**

**Label Description:** Road / construction (curve)  
**Additional Labeling Criteria:** (PCF = 1 [Construction])  
**Label String:** "CONSTRUCTION"  
**Characteristics:** 27

**Road (AP030) (continued)**

Curve

27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Label Description:** Road / not usable (curve)  
**Additional Labeling Criteria:** (PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])  
**Label String:** "NOT USABLE"  
**Characteristics:** 27  
 27 (Black, Light Condensed, Italic, 6 pt, Upper case)

**Symbol Sample**

===== CONSTRUCTION =====

===== NOT USABLE =====

**Road\_Interchange (AP020)**

Point

**Symbol Information**

|                                                                                                                |                                                                            |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RoadInterchange                       |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                           |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of square             |                                  |
| <b>Element Name:</b> Black_0.2mm_1.0mmOpenSquare                                                               |                                                                            | <b>Element Reference:</b> P00237 |
| <b>Description:</b> Black 0.2mm lineweight open square with all sides 1.0mm                                    |                                                                            |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Length: 1.0mm                      Lineweight: 0.2mm |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003734  | Road Interchange / all (point) | ALL      |

**Symbol Sample**

□

**Road\_Route\_Marker (No Code)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RouteMarker_International                                                       |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                    |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The symbol is manually placed on the road feature. Origin: Center of rectangle |                                  |
| <b>Element Name:</b> Black_4.5mm_by_2.25mm_Rectangle                                                             |                                                                                                                      | <b>Element Reference:</b> P00158 |
| <b>Description:</b> Black 4.5mm length by 2.25mm width open rectangle with a lineweight of 0.1mm                 |                                                                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br>Length: 4.5mm long;<br>2.25mm wide                      Lineweight: 0.1mm                      |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Road\_Route\_Marker (No Code) (continued)**

**Point**

R003638 Route Marker / international (point) (Road (AP030) feature (curve) with attribute (RTN\_ROI = 1 [International]) and (RTN <> "No Information"))

**Label Information**

**Label Description:** Route Marker / international (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** [RTN]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                                          |                                  |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RouteMarker_NationalMotorway                                                        |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                        |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The symbol is manually placed on the road feature. Origin: Center of symbol        |                                  |
| <b>Element Name:</b> Black_RouteMarker_NationalMotorway                                                        |                                                                                                                          | <b>Element Reference:</b> P00139 |
| <b>Description:</b> Black national motorway route marker                                                       |                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br>Note: See Element: Black_RouteMarker_NationalMotorway in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                      |
|----------|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| R003623  | Route Marker / national motorway (point) | (Road (AP030) feature (curve) with attribute (RTN_ROI = 2 [National Motorway]) and (RTN <> "No Information")) |

**Label Information**

**Label Description:** Route Marker / national motorway (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** [RTN]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                   |  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RouteMarker_National                                                         |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                 |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The symbol is manually placed on the road feature. Origin: Center of symbol |  |

**Road\_Route\_Marker (No Code) (continued)**

Point

|                                                 |                                                                                                                         |                                    |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_RouteMarker_National | <b>Element Reference:</b> P00159                                                                                        | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black national route marker |                                                                                                                         |                                    |
| <b>Color Token:</b> Black                       | <b>Parameters:</b><br><b>Note:</b> See Element: Black_RouteMarker_National in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria                                                                                             |
|----------|---------------------------------|------------------------------------------------------------------------------------------------------|
| R003639  | Route Marker / national (point) | (Road (AP030) feature (curve) with attribute (RTN_ROI = 3 [National]) and (RTN <> "No Information")) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Route Marker / national (point)             |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | [RTN]                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                  |                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_RouteMarker_State                                                                 |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                      |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The symbol is manually placed on the road feature. Origin: Center of open circle |

|                                                                                 |                                                                          |                                     |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_3.8mmOpenCircle                                      | <b>Element Reference:</b> P00160                                         | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 3.8mm diameter open circle with a lineweight of 0.1mm |                                                                          |                                     |
| <b>Color Token:</b> Black                                                       | <b>Parameters:</b><br><b>Diameter:</b> 3.8mm<br><b>Lineweight:</b> 0.1mm |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                                                                                                                                                    |
|----------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003640  | Route Marker / secondary, local (point) | (Road (AP030) feature (curve) with attribute (RTN_ROI = 4 [Secondary] or RTN_ROI = 5 [Local] or RTN_ROI = 999 [Other] or RTN_ROI = -999999 [No Information]) and (RTN <> "No Information")) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Route Marker / secondary, local (point)     |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | [RTN]                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Rock\_Formation (DB160)**



**Roundhouse (AN076) (continued)**

Point

**Label String:** "Roundhouse"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

• Roundhouse

**Ruins (AL200)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |                                                         |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Ruins                                                                      |                                  |                                                         |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                                         |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                                         |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |                                                         |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  |                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description           | Criteria |
|----------|-----------------------|----------|
| R003092  | Ruins / all (surface) | ALL      |

**Label Information**

**Label Description:** Ruins / all (surface)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** [ZI005\_FNA] "Ruins"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Ruins                       Lehigh Valley Roundhouse Ruins

Point

**Symbol Information**

|                                                                                                                  |                                                                     |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Ruins                          |                                  |                                     |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                    |                                  |                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of open square |                                  |                                     |
| <b>Element Name:</b> Black_0.8mmOpenSquare                                                                       |                                                                     | <b>Element Reference:</b> P00024 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.1mm lineweight open square with all sides 0.8mm                                      |                                                                     |                                  |                                     |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Length:</b> 0.8mm                          |                                  | <b>Lineweight:</b> 0.1mm            |

**Ruins (AL200) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria   |
|----------|---------------------------------|------------|
| R003093  | Ruins / non-obstruction (point) | (HGT < 46) |

**Symbol Sample**

□

**Runway (GB055)**

Surface

**Symbol Information**

|                                                                                   |                                                                                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> AR_Blue072_Runway_Major                                                                                                 |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                   |
|                                                                                   | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the center of the surface geometry aligned with the length of the feature. |

|                                     |                                  |                                     |
|-------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Blue072_Runway | <b>Element Reference:</b> L00150 | <b>Element Type:</b> Line - Complex |
|-------------------------------------|----------------------------------|-------------------------------------|

**Description:** Blue072 0.85mm Solid Line (0.85mm wt) with a PaperWhite 0.25mm Solid Line (0.25mm wt) centered inside

|                             |                                                                                                                                                                                                                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color Token:</b> Blue072 | <b>Parameters:</b><br><b>Line Style:</b> Blue072_0.85mmSolidLine<br><b>Line Style 2:</b> PaperWhite_0.25mmSolidLine<br><b>Note:</b> The Blue072 0.85mm solid line combined with the 0.25mm width paper white line placed inside form a 0.3mm lineweight outline with a total width of 0.85mm |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                              |                                  |                                    |
|----------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_0.85mmSolidLine | <b>Element Reference:</b> L00298 | <b>Element Type:</b> Line - Simple |
|----------------------------------------------|----------------------------------|------------------------------------|

**Description:** Blue072 0.85mm Solid Line (0.85mm wt)

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| <b>Color Token:</b> Blue072 | <b>Parameters:</b><br><b>Lineweight:</b> 0.85mm |
|-----------------------------|-------------------------------------------------|

|                                                 |                                  |                                    |
|-------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> PaperWhite_0.25mmSolidLine | <b>Element Reference:</b> L00222 | <b>Element Type:</b> Line - Simple |
|-------------------------------------------------|----------------------------------|------------------------------------|

**Description:** PaperWhite 0.25mm Solid Line (0.25mm wt)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>Color Token:</b> PaperWhite | <b>Parameters:</b><br><b>Lineweight:</b> 0.25mm |
|--------------------------------|-------------------------------------------------|

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria      |
|----------|--------------------------|---------------|
| R003428  | Runway / major (surface) | (LZN >= 1220) |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Runway / hard surface (surface)                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Additional Labeling Criteria:</b> | (ZI019_ASU = 1 [Asphalt] or ZI019_ASU = 2 [Bituminous Mix] or ZI019_ASU = 3 [Brick] or ZI019_ASU = 5 [Concrete] or ZI019_ASU = 9 [Ice] or ZI019_ASU = 10 [Landing Mat] or ZI019_ASU = 15 [Pierced Steel Planking] or ZI019_ASU = 20 [Wood] or ZI019_ASU = 21 [Asphalt Over Concrete])<br>LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number. |
| <b>Label String:</b>                 | [LZN]<br>[ZVH]                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Characteristics:</b>              | 66,62<br>66 (Blue072, Condensed, 8 pt, Lower case)<br>62 (Blue072, Condensed, Bold, 7 pt, Lower case)                                                                                                                                                                                                                                                                                                                                      |

|                                      |                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Runway / soft surface (surface)                                                                                                                                                                                                                                                                               |
| <b>Additional Labeling Criteria:</b> | (ZI019_ASU = 4 [Clay] or ZI019_ASU = 6 [Coral] or ZI019_ASU = 7 [Earthen] or ZI019_ASU = 8 [Gravel] or ZI019_ASU = 11 [Laterite] or ZI019_ASU = 12 [Macadam] or ZI019_ASU = 13 [Membrane] or ZI019_ASU = 14 [Non-bituminous Mix] or ZI019_ASU = 16 [Sand] or ZI019_ASU = 17 [Snow] or ZI019_ASU = 18 [Stone]) |

**Runway (GB055) (continued)**

Surface

LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number.

**Label String:** [LZN] "/ s"  
[ZVH]  
**Characteristics:** 26,26,62  
26 (Blue072, Condensed, 7 pt, Lower case)  
62 (Blue072, Condensed, Bold, 7 pt, Lower case)

**Label Description:** Runway / unknown surface (surface)  
**Additional Labeling Criteria:** (ZI019\_ASU = -999999 [No Information])  
LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number.

**Label String:** [LZN] "/ u"  
[ZVH]  
**Characteristics:** 26,26,62  
26 (Blue072, Condensed, 7 pt, Lower case)  
62 (Blue072, Condensed, Bold, 7 pt, Lower case)

**Symbol Sample**



Land Aerodrome with Runway info:



Land Aerodrome with Runway info:



**Symbol Information**

|                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                  | <b>Symbol Graphic Name:</b> PT_Blue072_Runway                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     |
|                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                     |
|                                                                                                     | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. The Runway symbol is then interactively moved and centered within the Land Aerodrome solid circle symbol. Orientation is coincident with the direction of surface Runway delineation. The Runway symbol will suppress the Land Aerodrome point symbol.<br>Origin: Center of the rectangle |                                  |                                     |
| <b>Element Name:</b> Blue072_Runway_Minor                                                           |                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> P00098 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Blue072 0.4mm x 4.2mm open rectangle with a 0.05mm lineweight outline perimeter |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Blue072                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.05mm<br><b>Note:</b> The 0.4mm x 4.2mm open rectangle has a Blue072 0.05mm lineweight outline perimeter                                                                                                                                                                                                                                                 |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria                    |
|----------|--------------------------|-----------------------------|
| R003691  | Runway / minor (surface) | (LZN >= 457 and LZN < 1220) |

**Label Information**

**Label Description:** Runway / hard surface (surface)  
**Additional Labeling Criteria:** (ZI019\_ASU = 1 [Asphalt] or ZI019\_ASU = 2 [Bituminous Mix] or ZI019\_ASU = 3 [Brick] or ZI019\_ASU = 5 [Concrete] or ZI019\_ASU = 9 [Ice] or ZI019\_ASU = 10 [Landing Mat] or ZI019\_ASU = 15 [Pierced Steel Planking] or ZI019\_ASU = 20 [Wood] or ZI019\_ASU = 21 [Asphalt Over Concrete])  
LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number.

**Label String:** [LZN]  
[ZVH]  
**Characteristics:** 66,62  
66 (Blue072, Condensed, 8 pt, Lower case)  
62 (Blue072, Condensed, Bold, 7 pt, Lower case)

**Label Description:** Runway / soft surface (surface)

**Runway (GB055) (continued)**

Surface

**Additional Labeling Criteria:** (ZI019\_ASU = 4 [Clay] or ZI019\_ASU = 6 [Coral] or ZI019\_ASU = 7 [Earthen] or ZI019\_ASU = 8 [Gravel] or ZI019\_ASU = 11 [Laterite] or ZI019\_ASU = 12 [Macadam] or ZI019\_ASU = 13 [Membrane] or ZI019\_ASU = 14 [Non-bituminous Mix] or ZI019\_ASU = 16 [Sand] or ZI019\_ASU = 17 [Snow] or ZI019\_ASU = 18 [Stone])  
LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number.

**Label String:** [LZN] "/ s"  
[ZVH]

**Characteristics:** 26,26,62  
26 (Blue072, Condensed, 7 pt, Lower case)  
62 (Blue072, Condensed, Bold, 7 pt, Lower case)

**Label Description:** Runway / unknown surface (surface)  
**Additional Labeling Criteria:** (ZI019\_ASU = -999999 [No Information])  
LZN and ZVH values are converted from meters to feet. LZN [hundred feet] is LZN multiplied by 3.28, divided by 100 and rounded to a whole number.

**Label String:** [LZN] "/ u"  
[ZVH]

**Characteristics:** 26,26,62  
26 (Blue072, Condensed, 7 pt, Lower case)  
62 (Blue072, Condensed, Bold, 7 pt, Lower case)

**Symbol Sample**



Land Aerodrome with Runway info:  
 UNCHON UP/25/s  
467

**Sabkha (BH160)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                                                  |                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Cyan_Sabkha                                                                       |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                      |                                  |
| <b>Element Name:</b> Cyan_AP103Fill                                                                          |                                                                                                                  | <b>Element Reference:</b> A00016 |
| <b>Description:</b> Cyan Ice Cap, Polar Ice, Sabkha Fill                                                     |                                                                                                                  |                                  |
| <b>Color Token:</b> Cyan                                                                                     | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_ AP103 in Annex I<br><b>Note:</b> Area Pattern #103 |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003209  | Sabkha / all (surface) | ALL      |

**Label Information**

**Label Description:** Sabkha / named (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 37  
37 (Cyan, Condensed, Italic, 7-16 pt, Upper case)



**Salt\_Evaporator (BH155) (continued)**

Surface

**Label String:** "Salt evaporator"  
**Characteristics:** 16  
 16 (Cyan, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**

 Salt evaporator

**Salt\_Flat (BH150)**

Surface

**Symbol Information**

|                                                                                                            |                                                                                                                                                                   |                                  |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Cyan_SaltFlat                                                                                                                      |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                 |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the specified pattern. |                                  |
| <b>Element Name:</b> Cyan_SaltFlat_Fill                                                                    |                                                                                                                                                                   | <b>Element Reference:</b> A00058 |
| <b>Description:</b> Cyan Salt Flat Fill                                                                    |                                                                                                                                                                   |                                  |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Cyan_SaltFlat_Fill in Annex I<br><b>Note:</b> Area Pattern #95                                            |                                  |
| <b>Element Name:</b> Cyan_0.2mmSolidLine                                                                   |                                                                                                                                                                   | <b>Element Reference:</b> L00015 |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt)                                                       |                                                                                                                                                                   |                                  |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                    |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description               | Criteria |
|----------|---------------------------|----------|
| R003608  | Salt Flat / all (surface) | ALL      |

**Label Information**

**Label Description:** Salt Flat / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA] "Salt flat"  
**Characteristics:** 38,38  
 38 (Cyan, Condensed, Italic, 6-16 pt, Mixed case)

**Symbol Sample**



**Sand\_Dunes (DB170)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Unknown                               |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                           |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |  |

**Sand\_Dunes (DB170) (continued)**

Surface

|                                            |                                                                                                                           |                                     |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_SandFill | <b>Element Reference:</b> A00035                                                                                          | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Sand Fill |                                                                                                                           |                                     |
| <b>Color Token:</b> Dk-Brown1815           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_SandFill in Annex I<br><b>Note:</b> Area Pattern #95 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                                                                   |
|----------|--------------------------------|----------------------------------------------------------------------------|
| R003258  | Sand Dunes / unknown (surface) | (ARA >= 1562500) and (SDT = 999 [Other] or SDT = -999999 [No Information]) |

**Label Information**

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| <b>Label Description:</b>            | Sand Dunes / unknown (surface)                           |
| <b>Additional Labeling Criteria:</b> | N/A                                                      |
| <b>Label String:</b>                 | [Z1005_FNA] "Dunes"                                      |
| <b>Characteristics:</b>              | 7,7<br>7 (Black, Condensed, Italic, 7-10 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                           |                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Crescent                                                                                                                                                                                                                           |
|                           | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                        |
|                           | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. The black arrow in the symbol graphic represents the wind direction for the pattern and is not part of the symbol (for reference purposes). Rotate pattern based upon sand dune orientation. |

|                                                           |                                                                                                                                     |                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_CrescentDunesFill       | <b>Element Reference:</b> A00031                                                                                                    | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Crescent Sand Dunes Fill |                                                                                                                                     |                                     |
| <b>Color Token:</b> Dk-Brown1815                          | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_CrescentDunesFill in Annex I<br><b>Note:</b> Area Pattern #108 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria                                                         |
|----------|---------------------------------|------------------------------------------------------------------|
| R003259  | Sand Dunes / crescent (surface) | (ARA >= 1562500) and (SDT = 1 [Crescent] or SDT = 5 [Parabolic]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Sand Dunes / crescent / named (surface)                |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 7<br>7 (Black, Condensed, Italic, 7-10 pt, Mixed case) |

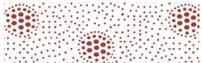
**Sand\_Dunes (DB170) (continued)**

Surface

**Symbol Sample**



**Symbol Information**

|                                                                                                            |                                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Dome                                                                      |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                     |                                  |
| <b>Element Name:</b> Dk-Brown1815_DomeDunesFill                                                            |                                                                                                                                 | <b>Element Reference:</b> A00042 |
| <b>Description:</b> Dk-Brown1815 Dome Sand Dunes Fill                                                      |                                                                                                                                 |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_DomeDunesFill in Annex I<br><b>Note:</b> Area Pattern #126 |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria                              |
|----------|-----------------------------|---------------------------------------|
| R003264  | Sand Dunes / dome (surface) | (ARA >= 1562500) and (SDT = 2 [Dome]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Sand Dunes / dome / named (surface)                    |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 7<br>7 (Black, Condensed, Italic, 7-10 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                                                                                          |                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Transverse                                                                                                                                                                                                                         |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                        |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. The black arrow in the symbol graphic represents the wind direction for the pattern and is not part of the symbol (for reference purposes). Rotate pattern based upon sand dune orientation. |                                  |
| <b>Element Name:</b> Dk-Brown1815_TransverseDunesFill                                                        |                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> A00034 |
| <b>Description:</b> Dk-Brown1815 Transverse Sand Dunes Fill                                                  |                                                                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                             | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_TransverseDunesFill in Annex I<br><b>Note:</b> Area Pattern #127                                                                                                                                                    |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                            | Criteria                                                                     |
|----------|--------------------------------------------------------|------------------------------------------------------------------------------|
| R003260  | Sand Dunes / transverse, dome and transverse (surface) | (ARA >= 1562500) and (SDT = 3 [Transverse] or SDT = 8 [Dome and Transverse]) |

**Sand\_Dunes (DB170) (continued)**

Surface

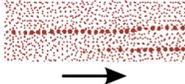
**Label Information**

**Label Description:** Sand Dunes / transverse / named (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 7  
 7 (Black, Condensed, Italic, 7-10 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                            |                                                                                                                                                                                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Linear                                                                                                                                                                                                                             |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                        |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. The black arrow in the symbol graphic represents the wind direction for the pattern and is not part of the symbol (for reference purposes). Rotate pattern based upon sand dune orientation. |                                  |
| <b>Element Name:</b> Dk-Brown1815_LinearDunesFill                                                          |                                                                                                                                                                                                                                                                                          | <b>Element Reference:</b> A00043 |
| <b>Description:</b> DK-Brown1815 Linear Sand Dunes Fill                                                    |                                                                                                                                                                                                                                                                                          |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_LinearDunesFill in Annex I<br><b>Note:</b> Area Pattern #118                                                                                                                                                        |                                  |

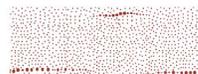
**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria                                |
|----------|-------------------------------|-----------------------------------------|
| R003261  | Sand Dunes / linear (surface) | (ARA >= 1562500) and (SDT = 4 [Linear]) |

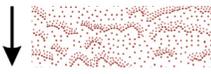
**Label Information**

**Label Description:** Sand Dunes / linear / named (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** [Z1005\_FNA]  
**Characteristics:** 7  
 7 (Black, Condensed, Italic, 7-10 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                                                                                          |  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Ripple                                                                                                                                                                                                                             |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                        |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. The black arrow in the symbol graphic represents the wind direction for the pattern and is not part of the symbol (for reference purposes). Rotate pattern based upon sand dune orientation. |  |

**Sand\_Dunes (DB170) (continued)**

Surface

|                                                         |                                                                                                                                   |                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_RippleDunesFill       | <b>Element Reference:</b> A00032                                                                                                  | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Ripple Sand Dunes Fill |                                                                                                                                   |                                     |
| <b>Color Token:</b> Dk-Brown1815                        | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_RippleDunesFill in Annex I<br><b>Note:</b> Area Pattern #112 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria                                |
|----------|-------------------------------|-----------------------------------------|
| R003262  | Sand Dunes / ripple (surface) | (ARA >= 1562500) and (SDT = 6 [Ripple]) |

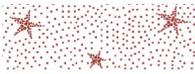
**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Sand Dunes / ripple / named (surface)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 7<br>7 (Black, Condensed, Italic, 7-10 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                             |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SandDunes_Star                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                           |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |

|                                                       |                                                                                                                                 |                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_StarDunesFill       | <b>Element Reference:</b> A00033                                                                                                | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Star Sand Dunes Fill |                                                                                                                                 |                                     |
| <b>Color Token:</b> Dk-Brown1815                      | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_StarDunesFill in Annex I<br><b>Note:</b> Area Pattern #120 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria                              |
|----------|-----------------------------|---------------------------------------|
| R003263  | Sand Dunes / star (surface) | (ARA >= 1562500) and (SDT = 7 [Star]) |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Sand Dunes / star / named (surface)                    |
| <b>Additional Labeling Criteria:</b> | N/A                                                    |
| <b>Label String:</b>                 | [Z1005_FNA]                                            |
| <b>Characteristics:</b>              | 7<br>7 (Black, Condensed, Italic, 7-10 pt, Mixed case) |

**Symbol Sample**



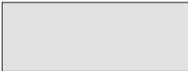
**Settlement (AL105)**

Surface

| Symbol Information                                                                                         |                                                                                                                                                                |                                  |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Settlement                                                                                                                |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                  |
| <b>Element Name:</b> Black-12_ScreenFill                                                                   |                                                                                                                                                                | <b>Element Reference:</b> A00003 |
| <b>Description:</b> Black-12 Area Fill (Black 12% screen, 45 degree angle)                                 |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black-12                                                                               | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                            | <b>Screen Angle:</b> 45 degrees                                                                                                                                |                                  |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                  |                                                                                                                                                                | <b>Element Reference:</b> L00007 |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                      |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                                                                             |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                                                                       |                                  |

| Symbol Portrayal Rules |                            |          |
|------------------------|----------------------------|----------|
| Rule Ref               | Description                | Criteria |
| R003085                | Settlement / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Settlement / named (surface)                |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | [Z1005_FNA]                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

Point

| Symbol Information                                                                                           |                                                                     |                                  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Settlement                           |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                   |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of open circle |                                  |
| <b>Element Name:</b> Black_1.2mmOpenCircle                                                                   |                                                                     | <b>Element Reference:</b> P00210 |
| <b>Description:</b> Black 1.2mm diameter open circle with a lineweight of 0.1mm                              |                                                                     |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                  |                                  |
|                                                                                                              | <b>Diameter:</b> 1.2mm                                              |                                  |
|                                                                                                              | <b>Lineweight:</b> 0.1mm                                            |                                  |

| Symbol Portrayal Rules |                               |                     |
|------------------------|-------------------------------|---------------------|
| Rule Ref               | Description                   | Criteria            |
| R003086                | Settlement / landmark (point) | (LMC = 1001 [True]) |

| Label Information                    |                            |
|--------------------------------------|----------------------------|
| <b>Label Description:</b>            | Settlement / named (point) |
| <b>Additional Labeling Criteria:</b> | N/A                        |

**Settlement (AL105) (continued)**

Point

**Label String:** [Z1005\_FNA]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

○ Letanovce

**Sewage Treatment Plant (AC507)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_SewageTreatmentPlant                                                       |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                             |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                                |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria |
|----------|----------------------------------------|----------|
| R003610  | Sewage Treatment Plant / all (surface) | ALL      |

**Label Information**

**Label Description:** Sewage Treatment Plant / all (surface)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** "Sewage plant"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Sewage plant

Point

**Symbol Information**

|                                                                                                                  |                                                                       |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_SewageTreatmentPlant             |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                              |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                    |                                  |
|                                                                                                                  | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                                  | <b>Note:</b> Square is filled                                         |                                  |

**Sewage\_Treatment\_Plant (AC507) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria |
|----------|--------------------------------------|----------|
| R003611  | Sewage Treatment Plant / all (point) | ALL      |

**Label Information**

**Label Description:** Sewage Treatment Plant / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Sewage plant"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Sewage plant

**Shaded\_Relief (No Code)**

Surface

**Symbol Information**

|                                                                            |                                                                                               |                                                |                                  |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b>                                                      | <b>Symbol Graphic Name:</b> AR_Black_ShadedRelief                                             |                                                |                                  |
|                                                                            | <b>Apply Label to Symbol:</b> No                                                              |                                                |                                  |
|                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color. |                                                |                                  |
| <b>Element Name:</b> Black-31_ScreenFill                                   |                                                                                               | <b>Element Reference:</b> A00357               | <b>Element Type:</b> Area - Fill |
| <b>Description:</b> Black-31 Area Fill (Black 31% screen, 27 degree angle) |                                                                                               |                                                |                                  |
| <b>Color Token:</b> Black-31                                               |                                                                                               | <b>Parameters:</b><br>Screen Angle: 27 degrees |                                  |

**Symbol Portrayal Rules**

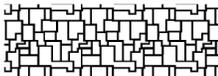
| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003831  | Shaded Relief / all (surface) | ALL      |

**Symbol Sample**

**Shanty\_Town (AL208)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                             |  |  |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_BUA_ShantyTown                                         |  |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                           |  |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern. |  |  |

**Shanty\_Town (AL208) (continued)**

Surface

|                                           |                                                                                                                           |                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_ShantyTownFill | <b>Element Reference:</b> A00014                                                                                          | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Black Shantytown Fill |                                                                                                                           |                                     |
| <b>Color Token:</b> Black                 | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Black_ShantyTownFill in Annex I<br><b>Note:</b> Area Pattern #132 |                                     |

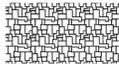
**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria        |
|----------|-----------------------------|-----------------|
| R003071  | Shanty Town / all (surface) | (ARA >= 390625) |

**Label Information**

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| <b>Label Description:</b>            | Shanty Town / named (surface)                    |
| <b>Additional Labeling Criteria:</b> | N/A                                              |
| <b>Label String:</b>                 | [ZI005_FNA]                                      |
| <b>Characteristics:</b>              | 41<br>41 (Black, Condensed, 6-12 pt, Mixed case) |

**Symbol Sample**



**Ship\_Elevator (BI006)**

Curve

| Symbol Information                                                            |                                                                                                       |                                                      |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Symbol Graphic</b><br>                                                     | <b>Symbol Graphic Name:</b> LN_Black_ShipElevator                                                     |                                                      |
|                                                                               | <b>Apply Label to Symbol:</b> Yes                                                                     |                                                      |
|                                                                               | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |                                                      |
| <b>Element Name:</b> Black_0.2mm-2mmLenDash-0.5mmGapLine                      | <b>Element Reference:</b> L00032                                                                      | <b>Element Type:</b> Line - Styled                   |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                                                                                                       |                                                      |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                        | <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003617  | Ship Elevator / all (curve) | ALL      |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Ship Elevator / all (curve)                 |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Ship elevator"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Ship\_Elevator (BI006) (continued)**

Curve

**Symbol Sample**

-----  
Ship elevator

Point

**Symbol Information**

|                                                                                                                                    |                                                                  |                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                     | <b>Symbol Graphic Name:</b> PT_Black_ShipElevator                |                                  |
|                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                |                                  |
|                                                                                                                                    | <b>Symbol Placement Instructions:</b> Origin: Center of dot      |                                  |
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       |                                                                  | <b>Element Reference:</b> P00010 |
| <b>Element Type:</b> Point - Simple                                                                                                |                                                                  |                                  |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                  |                                  |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b>                                               |                                  |
|                                                                                                                                    | <b>Diameter:</b> 1.25mm                                          |                                  |
|                                                                                                                                    | <b>Lineweight:</b> 0.15mm                                        |                                  |
|                                                                                                                                    | <b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria   |
|----------|-----------------------------------------|------------|
| R003618  | Ship Elevator / non-obstruction (point) | (HGT < 46) |

**Label Information**

**Label Description:** Ship Elevator / all (point)  
**Additional Labeling Criteria:** N/A  
  
**Label String:** "Ship elevator"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

○ Ship elevator

**Shipyard (BB241)**

Surface

**Symbol Information**

|                                                                                                                  |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_Shipyard                                                                   |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                       |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                               |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                    |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                                  | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                                  |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description              | Criteria |
|----------|--------------------------|----------|
| R003619  | Shipyard / all (surface) | ALL      |

**Shipyard (BB241) (continued)**

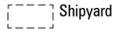
Surface

**Label Information**

**Label Description:** Shipyard / all (surface)  
**Additional Labeling Criteria:** N/A

**Label String:** "Shipyard"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Shipyard                               |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             |
| <b>Element Reference:</b> P00006                                                                               |                                                                             |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                             |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003620  | Shipyard / all (point) | ALL      |

**Label Information**

**Label Description:** Shipyard / all (point)  
**Additional Labeling Criteria:** N/A

**Label String:** "Shipyard"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Shoreline\_Construction (BB081)**

Surface

**Shoreline\_Construction (BB081) (continued)**  
 Surface

| Symbol Information                                                                                         |                                                                                                                                                         |                                    |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_ShorelineConstruction_Dry                                                                                          |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                       |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with paper white. |                                    |
| <b>Element Name:</b> Paper-White_Fill                                                                      | <b>Element Reference:</b> A00046                                                                                                                        | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Paper-White Solid Fill                                                                 |                                                                                                                                                         |                                    |
| <b>Color Token:</b> Paper-White                                                                            | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                                           |                                    |
| <b>Element Name:</b> Black_0.1mmSolidLine                                                                  | <b>Element Reference:</b> L00007                                                                                                                        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.1mm Solid Line (0.1mm wt)                                                      |                                                                                                                                                         |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                                                          |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                                                                                                                                                                                                                                                                |
|----------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003066  | Shoreline Construction / dry (surface) | (PWC = 1 [Pier] or PWC = 2 [Wharf] or PWC = 3 [Quay] or PWC = 7 [Recreational Pier] or PWC = 11 [Seawall] or PWC = 18 [Promenade] or PWC = 999 [Other] or PWC = -999999 [No Information]) or ((PWC = 4 [Breakwater] or PWC = 5 [Groin] or PWC = 6 [Mole] or PWC = 8 [Training Wall]) and (WLE = 2 [Always Dry] or WLE = 999 [Other] or WLE = -999999 [No Information])) |

**Label Information**

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>Label Description:</b>            | Shoreline Construction / pier (surface)         |
| <b>Additional Labeling Criteria:</b> | (PWC = 1 [Pier] or PWC = 7 [Recreational Pier]) |
| <b>Label String:</b>                 | "Pier"                                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / wharf (surface)        |
| <b>Additional Labeling Criteria:</b> | (PWC = 2 [Wharf] or PWC = 3 [Quay])             |
| <b>Label String:</b>                 | "Wharf"                                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / breakwater (surface)   |
| <b>Additional Labeling Criteria:</b> | (PWC = 4 [Breakwater] or PWC = 6 [Mole])        |
| <b>Label String:</b>                 | "Breakwater"                                    |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / groin (surface)        |
| <b>Additional Labeling Criteria:</b> | (PWC = 5 [Groin] or PWC = 8 [Training Wall])    |
| <b>Label String:</b>                 | "Groin"                                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / seawall (surface)      |
| <b>Additional Labeling Criteria:</b> | (PWC = 11 [Seawall] or PWC = 18 [Promenade])    |
| <b>Label String:</b>                 | "Seawall"                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |

**Shoreline\_Construction (BB081) (continued)**

Surface

**Symbol Sample**



Pier



Breakwater

**Symbol Information**

|                                                                                                                |                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_BlackCyan_ShorelineConstruction_NotDry                                                                                                                                                                                                                |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. NOTE: This symbol is shown in conjunction with the Tidal Water symbol and should NOT mask out the Tidal Water symbol. |

|                                                                                                             |                                                                                                     |                                    |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> CoversUncovers-Fill                                                                    | <b>Element Reference:</b> A00049                                                                    | <b>Element Type:</b> Area - Fill   |
| <b>Description:</b> Cyan-31 ScreenFill (Area Fill) coincident with Black-12 ScreenFill-15degree (Area Fill) |                                                                                                     |                                    |
| <b>Color Token:</b> Cyan-31_Black-12                                                                        | <b>Parameters:</b><br><b>Note:</b> The two area fills are combined as one symbol                    |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                  | <b>Element Reference:</b> L00210                                                                    | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                               |                                                                                                     |                                    |
| <b>Color Token:</b> Black                                                                                   | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                                | Criteria                                                                                                                                                                                                                               |
|----------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003166  | Shoreline Construction / not dry (surface) | (PWC = 4 [Breakwater] or PWC = 5 [Groin] or PWC = 8 [Training Wall]) and (WLE = 1 [Partly Submerged] or WLE = 3 [Always Submerged] or WLE = 4 [Covers and Uncovers] or WLE = 5 [Awash at Low Water] or WLE = 9 [Awash at Chart Datum]) |

**Label Information**

|                                                                   |                                                                                          |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Shoreline Construction / breakwater (surface)<br>(PWC = 4 [Breakwater])                  |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Breakwater"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                              |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Shoreline Construction / groin (surface)<br>(PWC = 5 [Groin] or PWC = 8 [Training Wall]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Groin"<br>1<br>1 (Black, Condensed, 6 pt, Mixed case)                                   |

**Symbol Sample**



Breakwater



Groin

Curve

**Symbol Information**

|                                                                                                                  |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Black_ShorelineConstruction_Dry                                        |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Shoreline\_Construction (BB081) (continued)**

Curve

|                                                       |                                         |                                    |
|-------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_0.2mmSolidLine             | <b>Element Reference:</b> L00009        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Black                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                                                                                                                                |
|----------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003067  | Shoreline Construction / dry (curve) | (PWC = 1 [Pier] or PWC = 2 [Wharf] or PWC = 3 [Quay] or PWC = 7 [Recreational Pier] or PWC = 11 [Seawall] or PWC = 18 [Promenade] or PWC = 999 [Other] or PWC = -999999 [No Information]) or ((PWC = 4 [Breakwater] or PWC = 5 [Groin] or PWC = 6 [Mole] or PWC = 8 [Training Wall]) and (WLE = 2 [Always Dry] or WLE = 999 [Other] or WLE = -999999 [No Information])) |

**Label Information**

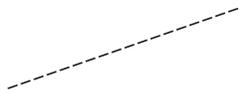
|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>Label Description:</b>            | Shoreline Construction / pier (curve)           |
| <b>Additional Labeling Criteria:</b> | (PWC = 1 [Pier] or PWC = 7 [Recreational Pier]) |
| <b>Label String:</b>                 | "Pier"                                          |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / wharf (curve)          |
| <b>Additional Labeling Criteria:</b> | (PWC = 2 [Wharf] or PWC = 3 [Quay])             |
| <b>Label String:</b>                 | "Wharf"                                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / breakwater (curve)     |
| <b>Additional Labeling Criteria:</b> | (PWC = 4 [Breakwater] or PWC = 6 [Mole])        |
| <b>Label String:</b>                 | "Breakwater"                                    |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / groin (curve)          |
| <b>Additional Labeling Criteria:</b> | (PWC = 5 [Groin] or PWC = 8 [Training Wall])    |
| <b>Label String:</b>                 | "Groin"                                         |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |
| <b>Label Description:</b>            | Shoreline Construction / seawall (curve)        |
| <b>Additional Labeling Criteria:</b> | (PWC = 11 [Seawall] or PWC = 18 [Promenade])    |
| <b>Label String:</b>                 | "Seawall"                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)     |

**Symbol Sample**

Pier

Breakwater

**Symbol Information**

|                                                                                     |                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Black_ShorelineConstruction_NotDry                                     |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Shoreline\_Construction (BB081) (continued)**

Curve

|                                                                               |                                                |                                  |                                                         |
|-------------------------------------------------------------------------------|------------------------------------------------|----------------------------------|---------------------------------------------------------|
| <b>Element Name:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine                      |                                                | <b>Element Reference:</b> L00031 | <b>Element Type:</b> Line - Styled                      |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) |                                                |                                  |                                                         |
| <b>Color Token:</b> Black                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm |                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                                                                                                                                                                               |
|----------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003167  | Shoreline Construction / not dry (curve) | (PWC = 4 [Breakwater] or PWC = 5 [Groin] or PWC = 8 [Training Wall]) and (WLE = 1 [Partly Submerged] or WLE = 3 [Always Submerged] or WLE = 4 [Covers and Uncovers] or WLE = 5 [Awash at Low Water] or WLE = 9 [Awash at Chart Datum]) |

**Label Information**

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| <b>Label Description:</b>            | Shoreline Construction / breakwater (curve)  |
| <b>Additional Labeling Criteria:</b> | (PWC = 4 [Breakwater])                       |
| <b>Label String:</b>                 | "Breakwater"                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)  |
| <b>Label Description:</b>            | Shoreline Construction / groin (curve)       |
| <b>Additional Labeling Criteria:</b> | (PWC = 5 [Groin] or PWC = 8 [Training Wall]) |
| <b>Label String:</b>                 | "Groin"                                      |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)  |

**Symbol Sample**

Breakwater  
-----

Groin  
-----

**Ski\_Jump (AK150)**

Point

**Symbol Information**

|                                                                                     |                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_SkiJump                |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                           |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of dot |

|                                                                                                                                    |                                                                                                                                                |                                     |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_OpenCircleWithDot                                                                                       | <b>Element Reference:</b> P00010                                                                                                               | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center |                                                                                                                                                |                                     |
| <b>Color Token:</b> Black                                                                                                          | <b>Parameters:</b><br><b>Diameter:</b> 1.25mm<br><b>Lineweight:</b> 0.15mm<br><b>Note:</b> 0.3mm diameter dot in the center of the open circle |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria   |
|----------|------------------------------------|------------|
| R003626  | Ski Jump / non-obstruction (point) | (HGT < 46) |

**Label Information**

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Label Description:</b>            | Ski Jump / all (point) |
| <b>Additional Labeling Criteria:</b> | N/A                    |
| <b>Label String:</b>                 | "Ski jump"             |
| <b>Characteristics:</b>              | 1                      |

**Ski\_Jump (AK150) (continued)**

Point

1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

o Ski jump

**Smokestack (AF010)**

Point

| Symbol Information                                                                                             |                                                                                                               |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Smokestack                                                               |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                              |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                   |                                  |
| <b>Element Name:</b> Black_Smokestack                                                                          |                                                                                                               | <b>Element Reference:</b> P00140 |
| <b>Description:</b> Black smokestack                                                                           |                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Smokestack in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria   |
|----------|--------------------------------------|------------|
| R003301  | Smokestack / non-obstruction (point) | (HGT < 46) |

**Symbol Sample**

f

**Snow\_Field\_and/or\_Ice-field (BJ100)**

Surface

| Symbol Information                                                                                               |                                                                                                                                                                |                                  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Cyan_SnowIceField                                                                                                               |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                              |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry and the area is filled with the screened color. |                                  |
| <b>Element Name:</b> Cyan-4_ScreenFill                                                                           |                                                                                                                                                                | <b>Element Reference:</b> A00008 |
| <b>Description:</b> Cyan-4 area fill (Cyan 4% screen, 45 degree angle)                                           |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan-4                                                                                       | <b>Parameters:</b><br><b>Screen Angle:</b> 45 degrees                                                                                                          |                                  |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                          |                                                                                                                                                                | <b>Element Reference:</b> L00041 |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                     |                                                                                                                                                                |                                  |
| <b>Color Token:</b> Cyan                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                 | <b>Dash Length:</b> 2.0mm        |
|                                                                                                                  |                                                                                                                                                                | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003232  | Snow Ice Field / all (surface) | ALL      |

**Snow\_Field\_and/or\_Ice-field (BJ100) (continued)**

Surface

**Label Information**

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| <b>Label Description:</b>            | Snow Ice Field / named (surface)                         |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA <> "No Information")                          |
| <b>Label String:</b>                 | [ZI005_FNA]                                              |
| <b>Characteristics:</b>              | 38<br>38 (Cyan, Condensed, Italic, 6-16 pt, Mixed case)  |
| <b>Label Description:</b>            | Snow Ice Field / snow / unnamed (surface)                |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (SIC = 1 [Snowfield]) |
| <b>Label String:</b>                 | "Snow"                                                   |
| <b>Characteristics:</b>              | 38<br>38 (Cyan, Condensed, Italic, 6-16 pt, Mixed case)  |
| <b>Label Description:</b>            | Snow Ice Field / ice / unnamed (surface)                 |
| <b>Additional Labeling Criteria:</b> | (ZI005_FNA = "No Information") and (SIC = 2 [Ice-field]) |
| <b>Label String:</b>                 | "Ice"                                                    |
| <b>Characteristics:</b>              | 38<br>38 (Cyan, Condensed, Italic, 6-16 pt, Mixed case)  |

**Symbol Sample**



**Soil\_Surface\_Region (DA010)**

Surface

**Symbol Information**

|                                                                                                              |                                                                                                                                        |                                     |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SoilSurface_DistortedSurface                                                               |                                     |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                      |                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                            |                                     |
| <b>Element Name:</b> Dk-Brown1815_DistortedSurfaceFill                                                       | <b>Element Reference:</b> A00030                                                                                                       | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Distorted Surface Fill                                                      |                                                                                                                                        |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                             | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_DistortedSurfaceFill in Annex I<br><b>Note:</b> Area Pattern #103 |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                               | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003235  | Soil Surface Region / small / distorted surface (surface) | (ARA < 9000000) and (SRD = 11 [Numerous Cobbles and Boulders] or SRD = 12 [Stony Areas] or SRD = 13 [Stony Soil with Surface Rock] or SRD = 14 [Stony Soil with scattered Boulders] or SRD = 15 [Stony Soil with numerous Boulders] or SRD = 16 [Numerous Boulders] or SRD = 17 [Numerous Rock Outcrops] or SRD = 18 [Scattered Boulders] or SRD = 19 [Talus] or SRD = 20 [Boulder Field] or SRD = 31 [Highly Fractured Rock] or SRD = 32 [Weathered Lava] or SRD = 33 [Unweathered Lava] or SRD = 34 [Stony Soil with numerous Rock Outcrops] or SRD = 35 [Irregular with deep Foliation Fractures] or SRD = 36 [Rugged with numerous Rock Outcrops] or SRD = 37 [Rugged Bedrock] or SRD = 43 [Highly Distorted with sharp Rocky Ridges] or SRD = 51 [Stony Soil with numerous Gullies] or SRD = 52 [Moderately Dissected] or SRD = 53 [Moderately Dissected with scattered Rock Outcrops] or SRD = 54 [Dissected Floodplain] or SRD = 55 [Highly Dissected] or SRD = 56 [Deep Erosional Gullies] or SRD = 57 [Steep Rugged Dissected with narrow Gullies] or SRD = 58 [Karst with numerous Sinkholes and Solution Valleys] or SRD = 59 [Karst with numerous Sinkholes] or SRD = 60 [Hummocky Karst with Large Hills] or SRD = 61 [Hummocky Karst with Low Mounds] or TSM = 9 [Loess]) |

**Label Information**

|                                      |                                                                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Soil Surface Region / small / boulders (surface)                                                                                                                                                               |
| <b>Additional Labeling Criteria:</b> | (SRD = 11 [Numerous Cobbles and Boulders] or SRD = 14 [Stony Soil with scattered Boulders] or SRD = 15 [Stony Soil with numerous Boulders] or SRD = 16 [Numerous Boulders] or SRD = 18 [Scattered Boulders] or |

**Soil\_Surface\_Region (DA010) (continued)**

Surface

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | SRD = 20 [Boulder Field])                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Label String:</b>                 | "Boulders"                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Soil Surface Region / small / rocky (surface)                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (SRD = 12 [Stony Areas] or SRD = 13 [Stony Soil with Surface Rock] or SRD = 17 [Numerous Rock Outcrops] or SRD = 19 [Talus] or SRD = 31 [Highly Fractured Rock] or SRD = 34 [Stony Soil with numerous Rock Outcrops] or SRD = 35 [Irregular with deep Foliation Fractures] or SRD = 36 [Rugged with numerous Rock Outcrops] or SRD = 37 [Rugged Bedrock] or SRD = 43 [Highly Distorted with sharp Rocky Ridges]) |
| <b>Label String:</b>                 | "Rocky"                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Soil Surface Region / small / lava (surface)                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additional Labeling Criteria:</b> | (SRD = 32 [Weathered Lava] or SRD = 33 [Unweathered Lava])                                                                                                                                                                                                                                                                                                                                                       |
| <b>Label String:</b>                 | "Lava"                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Soil Surface Region / small / dissected terrain (surface)                                                                                                                                                                                                                                                                                                                                                        |
| <b>Additional Labeling Criteria:</b> | (SRD = 51 [Stony Soil with numerous Gullies] or SRD = 52 [Moderately Dissected] or SRD = 53 [Moderately Dissected with scattered Rock Outcrops] or SRD = 54 [Dissected Floodplain] or SRD = 55 [Highly Dissected] or SRD = 56 [Deep Erosional Gullies] or SRD = 57 [Steep Rugged Dissected with narrow Gullies])                                                                                                 |
| <b>Label String:</b>                 | "Dissected terrain"                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Soil Surface Region / small / karst (surface)                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (SRD = 58 [Karst with numerous Sinkholes and Solution Valleys] or SRD = 59 [Karst with numerous Sinkholes] or SRD = 60 [Hummocky Karst with Large Hills] or SRD = 61 [Hummocky Karst with Low Mounds])                                                                                                                                                                                                           |
| <b>Label String:</b>                 | "Karst"                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Label Description:</b>            | Soil Surface Region / small / loess (surface)                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Additional Labeling Criteria:</b> | (TSM = 9 [Loess])                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Label String:</b>                 | "Loess"                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                              |

**Symbol Sample**



| Symbol Information |                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label only</b>  | <b>Symbol Graphic Name:</b> AR_SoilSurface_DistortedSurface-Large                                                                                                  |
|                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                                  |
|                    | <b>Symbol Placement Instructions:</b> Dynamic text label only, repeated as necessary to properly define the limits of the surface geometry. No Graphic Parameters. |
| AREA LABEL ONLY    |                                                                                                                                                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

## Soil\_Surface\_Region (DA010) (continued)

## Surface

R003236 Soil Surface Region / large / distorted surface (surface) (ARA >= 9000000) and (SRD = 11 [Numerous Cobbles and Boulders] or SRD = 12 [Stony Areas] or SRD = 13 [Stony Soil with Surface Rock] or SRD = 14 [Stony Soil with scattered Boulders] or SRD = 15 [Stony Soil with numerous Boulders] or SRD = 16 [Numerous Boulders] or SRD = 17 [Numerous Rock Outcrops] or SRD = 18 [Scattered Boulders] or SRD = 19 [Talus] or SRD = 20 [Boulder Field] or SRD = 31 [Highly Fractured Rock] or SRD = 32 [Weathered Lava] or SRD = 33 [Unweathered Lava] or SRD = 34 [Stony Soil with numerous Rock Outcrops] or SRD = 35 [Irregular with deep Foliation Fractures] or SRD = 36 [Rugged with numerous Rock Outcrops] or SRD = 37 [Rugged Bedrock] or SRD = 43 [Highly Distorted with sharp Rocky Ridges] or SRD = 51 [Stony Soil with numerous Gullies] or SRD = 52 [Moderately Dissected] or SRD = 53 [Moderately Dissected with scattered Rock Outcrops] or SRD = 54 [Dissected Floodplain] or SRD = 55 [Highly Dissected] or SRD = 56 [Deep Erosional Gullies] or SRD = 57 [Steep Rugged Dissected with narrow Gullies] or SRD = 58 [Karst with numerous Sinkholes and Solution Valleys] or SRD = 59 [Karst with numerous Sinkholes] or SRD = 60 [Hummocky Karst with Large Hills] or SRD = 61 [Hummocky Karst with Low Mounds] or TSM = 9 [Loess])

## Label Information

**Label Description:** Soil Surface Region / large / boulders (surface)  
**Additional Labeling Criteria:** (SRD = 11 [Numerous Cobbles and Boulders] or SRD = 14 [Stony Soil with scattered Boulders] or SRD = 15 [Stony Soil with numerous Boulders] or SRD = 16 [Numerous Boulders] or SRD = 18 [Scattered Boulders] or SRD = 20 [Boulder Field])

**Label String:** "Boulders"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / large / rocky (surface)  
**Additional Labeling Criteria:** (SRD = 12 [Stony Areas] or SRD = 13 [Stony Soil with Surface Rock] or SRD = 17 [Numerous Rock Outcrops] or SRD = 19 [Talus] or SRD = 31 [Highly Fractured Rock] or SRD = 34 [Stony Soil with numerous Rock Outcrops] or SRD = 35 [Irregular with deep Foliation Fractures] or SRD = 36 [Rugged with numerous Rock Outcrops] or SRD = 37 [Rugged Bedrock] or SRD = 43 [Highly Distorted with sharp Rocky Ridges])

**Label String:** "Rocky"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / large / lava (surface)  
**Additional Labeling Criteria:** (SRD = 32 [Weathered Lava] or SRD = 33 [Unweathered Lava])

**Label String:** "Lava"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / large / dissected terrain (surface)  
**Additional Labeling Criteria:** (SRD = 51 [Stony Soil with numerous Gullies] or SRD = 52 [Moderately Dissected] or SRD = 53 [Moderately Dissected with scattered Rock Outcrops] or SRD = 54 [Dissected Floodplain] or SRD = 55 [Highly Dissected] or SRD = 56 [Deep Erosional Gullies] or SRD = 57 [Steep Rugged Dissected with narrow Gullies])

**Label String:** "Dissected terrain"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / large / karst (surface)  
**Additional Labeling Criteria:** (SRD = 58 [Karst with numerous Sinkholes and Solution Valleys] or SRD = 59 [Karst with numerous Sinkholes] or SRD = 60 [Hummocky Karst with Large Hills] or SRD = 61 [Hummocky Karst with Low Mounds])

**Label String:** "Karst"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / large / loess (surface)  
**Additional Labeling Criteria:** (TSM = 9 [Loess])

**Label String:** "Loess"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Soil\_Surface\_Region (DA010) (continued)**

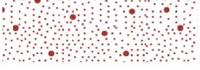
Surface

**Symbol Sample**

*Rocky*

*Boulders*

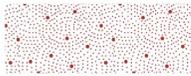
**Symbol Information**

|                                                                                                            |                                                                                                                                    |                                  |                                     |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SoilSurface_SandandGravel                                                              |                                  |                                     |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                                                   |                                  |                                     |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                        |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_SandandGravelFill                                                        |                                                                                                                                    | <b>Element Reference:</b> A00036 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Sand and Gravel Fill                                                      |                                                                                                                                    |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                           | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_SandandGravelFill in Annex I<br><b>Note:</b> Area Pattern #99 |                                  |                                     |

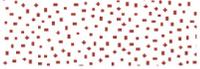
**Symbol Portrayal Rules**

| Rule Ref | Description                                               | Criteria                                                                                                 |
|----------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| R003237  | Soil Surface Region / gravel or sand and gravel (surface) | (TSM = 7 [Gravel]) or (TSM = 13 [Sand] and TSM2 = 7 [Gravel]) or (TSM = 7 [Gravel] and TSM2 = 13 [Sand]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                              |                                                                                                                           |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Dk-Brown1815_SoilSurface_Sand                                                              |                                  |                                     |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                         |                                  |                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                               |                                  |                                     |
| <b>Element Name:</b> Dk-Brown1815_SandFill                                                                   |                                                                                                                           | <b>Element Reference:</b> A00035 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Dk-Brown1815 Sand Fill                                                                   |                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Dk-Brown1815                                                                             | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Dk-Brown1815_SandFill in Annex I<br><b>Note:</b> Area Pattern #95 |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                               | Criteria                                                                                                                                                                                      |
|----------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003238  | Soil Surface Region / sand, and mud or boulders (surface) | (TSM = 13 [Sand]) or (TSM = 13 [Sand] and TSM2 = 10 [Mud]) or (TSM = 13 [Sand] and TSM2 = 3 [Boulders]) or (TSM = 3 [Boulders] and TSM2 = 13 [Sand]) or (TSM = 10 [Mud] and TSM2 = 13 [Sand]) |

**Label Information**

|                                      |                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Soil Surface Region / sand and boulders (surface)                                      |
| <b>Additional Labeling Criteria:</b> | (TSM = 13 [Sand] and TSM2 = 3 [Boulders]) or (TSM = 3 [Boulders] and TSM2 = 13 [Sand]) |
| <b>Label String:</b>                 | "Sand and boulders"                                                                    |
| <b>Characteristics:</b>              | 5<br>5 (Black, Condensed, Italic, 6 pt, Mixed case)                                    |

**Soil\_Surface\_Region (DA010) (continued)**

Surface

**Label Description:** Soil Surface Region / sand and mud (surface)  
**Additional Labeling Criteria:** (TSM = 13 [Sand] and TSM2 = 10 [Mud]) or (TSM = 10 [Mud] and TSM2 = 13 [Sand])  
**Label String:** "Sand and mud"  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**



**Symbol Information**

|                                                |                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br><i>Label only</i> | <b>Symbol Graphic Name:</b> AR_SoilSurface_Other                                                                                                                   |
|                                                | <b>Apply Label to Symbol:</b> Yes                                                                                                                                  |
|                                                | <b>Symbol Placement Instructions:</b> Dynamic text label only, repeated as necessary to properly define the limits of the surface geometry. No Graphic Parameters. |

AREA LABEL ONLY

**Symbol Portrayal Rules**

| Rule Ref | Description                                     | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003239  | Soil Surface Region / numerous, other (surface) | (SRD = 69 [Numerous Small Lakes and Ponds] or SRD = 70 [Numerous Crevasses] or SRD = 81 [Numerous Terraces] or SRD = 86 [Mine Tailing(s)] or SRD = 88 [Numerous Dykes] or SRD = 89 [Numerous Dyked Fields] or SRD = 90 [Numerous Fences] or SRD = 91 [Numerous Stone Walls] or SRD = 92 [Numerous Man-made Drainage] or SRD = 93 [Numerous Terraced Fields] or SRD = 94 [Parallel Earthen Rows] or SRD = 95 [Numerous Hedgerows] or SRD = 999 [Other]) |

**Label Information**

**Label Description:** Soil Surface Region / numerous (surface)  
**Additional Labeling Criteria:** (SRD = 69 [Numerous Small Lakes and Ponds] or SRD = 70 [Numerous Crevasses] or SRD = 81 [Numerous Terraces] or SRD = 86 [Mine Tailing(s)] or SRD = 88 [Numerous Dykes] or SRD = 89 [Numerous Dyked Fields] or SRD = 90 [Numerous Fences] or SRD = 91 [Numerous Stone Walls] or SRD = 92 [Numerous Man-made Drainage] or SRD = 93 [Numerous Terraced Fields] or SRD = 94 [Parallel Earthen Rows] or SRD = 95 [Numerous Hedgerows])  
**Label String:** [SRD]  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Label Description:** Soil Surface Region / other (surface)  
**Additional Labeling Criteria:** (SRD = 999 [Other]) and (Z1006\_MEM <> "No Information")  
**Label String:** [Z1006\_MEM]  
**Characteristics:** 5  
 5 (Black, Condensed, Italic, 6 pt, Mixed case)

**Symbol Sample**

*Numerous fences*

*Numerous small lakes and ponds*

**Solar\_Farm (AD025)**

Surface

**Solar\_Farm (AD025) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_SolarFarm                                                                  |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                            |          |
|------------------------|----------------------------|----------|
| Rule Ref               | Description                | Criteria |
| R003295                | Solar Farm / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Solar Farm / all (surface)                  |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Solar farm"                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |            |
|-------------------------------------------------------------------------------------|------------|
|  | Solar farm |

Point

| Symbol Information                                                                                           |                                                                       |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_SolarFarm                        |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                    |                                  |
|                                                                                                              | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                              | <b>Note:</b> Square is filled                                         |                                  |

| Symbol Portrayal Rules |                          |          |
|------------------------|--------------------------|----------|
| Rule Ref               | Description              | Criteria |
| R003296                | Solar Farm / all (point) | ALL      |

| Label Information                    |                          |
|--------------------------------------|--------------------------|
| <b>Label Description:</b>            | Solar Farm / all (point) |
| <b>Additional Labeling Criteria:</b> | N/A                      |
| <b>Label String:</b>                 | "Solar farm"             |
| <b>Characteristics:</b>              | 1                        |

**Solar\_Farm (AD025) (continued)**

Point

1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Solar farm

**Space\_Facility (AL351)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_SpaceFacility                                                              |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                                |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria |
|----------|--------------------------------|----------|
| R003627  | Space Facility / all (surface) | ALL      |

**Label Information**

**Label Description:** Space Facility / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Space facility"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Space facility

Point

**Symbol Information**

|                                                                                                                  |                                                                       |                                  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_SpaceFacility                    |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                    |                                  |
|                                                                                                                  | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                                  | <b>Note:</b> Square is filled                                         |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Space\_Facility (AL351) (continued)**

Point

R003628 Space Facility / all (point) ALL

**Label Information**

**Label Description:** Space Facility / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Space facility"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Space facility

**Sports\_Ground (AK040)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_SportsGround                                                               |                                  |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003631  | Sports Ground / all (surface) | ALL      |

**Label Information**

**Label Description:** Sports Ground / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Sports ground"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

 Sports ground

Point

**Sports\_Ground (AK040) (continued)**

Point

| Symbol Information                                                                                                                                  |                                                                       |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                                      | <b>Symbol Graphic Name:</b> PT_Lt-Green_SportsGround                  |                                  |
|                                                                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Lt-Green_0.8mmFilledSquare                                                                                                     |                                                                       | <b>Element Reference:</b> P00233 |
| <b>Element Type:</b> Point - Simple                                                                                                                 |                                                                       |                                  |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) filled square with all sides 0.8mm |                                                                       |                                  |
| <b>Color Token:</b> Lt-Green                                                                                                                        | <b>Parameters:</b>                                                    |                                  |
|                                                                                                                                                     | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                                                                     | <b>Note:</b> Square is filled                                         |                                  |

| Symbol Portrayal Rules |                             |          |
|------------------------|-----------------------------|----------|
| Rule Ref               | Description                 | Criteria |
| R003632                | Sports Ground / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Sports Ground / all (surface)               |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Sports ground"                             |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

**Spot\_Elevation (CA030)**

Point

| Symbol Information                                                                                                                                                                      |                                                                      |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                                                                        | <b>Symbol Graphic Name:</b> PT_Black_SpotElevation_Earthen           |                                  |
|                                                                                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                    |                                  |
|                                                                                                                                                                                         | <b>Symbol Placement Instructions:</b> Origin: Center of intersection |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenX                                                                                                                                              |                                                                      | <b>Element Reference:</b> P00205 |
| <b>Element Type:</b> Point - Simple                                                                                                                                                     |                                                                      |                                  |
| <b>Description:</b> Two Black lines (each length 1.0mm with a 0.1mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments. |                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                                                                                               | <b>Parameters:</b>                                                   |                                  |
|                                                                                                                                                                                         | <b>Length:</b> 1.0mm                                                 | <b>Lineweight:</b> 0.1mm         |
|                                                                                                                                                                                         | <b>Orientation:</b> Center of intersection                           |                                  |

| Symbol Portrayal Rules |                                  |                  |
|------------------------|----------------------------------|------------------|
| Rule Ref               | Description                      | Criteria         |
| R003322                | Spot Elevation / earthen (point) | (ESC = 1 [Land]) |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Spot Elevation / land / normal (point)      |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet. |

**Spot\_Elevation (CA030) (continued)**

**Point**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label String:</b>                 | [ZVH]                                                |
| <b>Characteristics:</b>              | 97<br>97 (Black, Condensed, Bold, 8 pt, Lower case)  |
| <b>Label Description:</b>            | Spot Elevation / land / critical (point)             |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet.          |
| <b>Label String:</b>                 | [ZVH]                                                |
| <b>Characteristics:</b>              | 11<br>11 (Black, Condensed, Bold, 10 pt, Lower case) |
| <b>Label Description:</b>            | Spot Elevation / land / highest on sheet (point)     |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet.          |
| <b>Label String:</b>                 | [ZVH]                                                |
| <b>Characteristics:</b>              | 98<br>98 (Black, Condensed, Bold, 12 pt, Lower case) |

**Symbol Sample**

|        |        |         |
|--------|--------|---------|
| * 1005 | * 6973 | * 12770 |
|--------|--------|---------|

**Symbol Information**

|                                                                                                                                                                                         |                                                                      |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------|
|                                                                                                        | <b>Symbol Graphic Name:</b> PT_Black_SpotElevation_Snow/Ice          |                                  |
|                                                                                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                    |                                  |
|                                                                                                                                                                                         | <b>Symbol Placement Instructions:</b> Origin: Center of intersection |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenX                                                                                                                                              |                                                                      | <b>Element Reference:</b> P00205 |
| <b>Element Type:</b> Point - Simple                                                                                                                                                     |                                                                      |                                  |
| <b>Description:</b> Two Black lines (each length 1.0mm with a 0.1mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments. |                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                                                                                               | <b>Parameters:</b>                                                   |                                  |
|                                                                                                                                                                                         | <b>Length:</b> 1.0mm                                                 | <b>Lineweight:</b> 0.1mm         |
|                                                                                                                                                                                         | <b>Orientation:</b> Center of intersection                           |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria                                |
|----------|-----------------------------------|-----------------------------------------|
| R003685  | Spot Elevation / snow,ice (point) | (ESC = 2 [Snow Field and/or Ice-field]) |

**Label Information**

|                                      |                                                       |
|--------------------------------------|-------------------------------------------------------|
| <b>Label Description:</b>            | Spot Elevation / snow, ice / normal (point)           |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet.           |
| <b>Label String:</b>                 | [ZVH]                                                 |
| <b>Characteristics:</b>              | 102<br>102 (Cyan, Condensed, Bold, 8 pt, Lower case)  |
| <b>Label Description:</b>            | Spot Elevation / snow, ice / critical (point)         |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet.           |
| <b>Label String:</b>                 | [ZVH]                                                 |
| <b>Characteristics:</b>              | 31<br>31 (Cyan, Condensed, Bold, 10 pt, Lower case)   |
| <b>Label Description:</b>            | Spot Elevation / snow, ice / highest on sheet (point) |
| <b>Additional Labeling Criteria:</b> | ZVH value is converted from meters to feet.           |
| <b>Label String:</b>                 | [ZVH]                                                 |
| <b>Characteristics:</b>              | 101                                                   |

**Spot\_Elevation (CA030) (continued)**

Point

101 (Cyan, Condensed, Bold, 12 pt, Lower case)

**Symbol Sample**

× 2625

× 9186

× 12284

**Symbol Information**

|                                                                                                         |                                                                                       |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Symbol Graphic<br><br> | <b>Symbol Graphic Name:</b> PT_SpotElevation_Water                                    |
|                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                     |
|                                                                                                         | <b>Symbol Placement Instructions:</b> Dynamic text label only. No Graphic Parameters. |
| POINT LABEL ONLY                                                                                        |                                                                                       |

**Symbol Portrayal Rules**

| Rule Ref | Description                    | Criteria                                    |
|----------|--------------------------------|---------------------------------------------|
| R003613  | Spot Elevation / water (point) | (ESC = 3 [Water] or ESC = 5 [Inland Water]) |

**Label Information**

**Label Description:** Spot Elevation / water (point)  
**Additional Labeling Criteria:** ZVH value is converted from meters to feet.  
  
**Label String:** [ZVH]  
**Characteristics:** 30  
 30 (Cyan, Regular, 8 pt, Lower case)

**Symbol Sample**

210

**Stadium (AK160)**

Surface

**Symbol Information**

|                                                                                                           |                                                                                                                 |                                                |                                    |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------|
| Symbol Graphic<br><br> | <b>Symbol Graphic Name:</b> AR_Black_Stadium                                                                    |                                                |                                    |
|                                                                                                           | <b>Apply Label to Symbol:</b> Yes                                                                               |                                                |                                    |
|                                                                                                           | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                                |                                    |
| <b>Element Name:</b> Black_0.5mmSolidLine                                                                 |                                                                                                                 | <b>Element Reference:</b> L00014               | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Black 0.5mm Solid Line (0.5mm wt)                                                     |                                                                                                                 |                                                |                                    |
| <b>Color Token:</b> Black                                                                                 |                                                                                                                 | <b>Parameters:</b><br><b>Lineweight:</b> 0.5mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003061  | Stadium / all (surface) | ALL      |

**Stadium (AK160) (continued)**

Surface

**Label Information**

**Label Description:** Stadium / all (surface)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Stadium"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Stadium                                |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             |
| <b>Element Reference:</b> P00006                                                                               |                                                                             |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                             |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |

**Symbol Portrayal Rules**

| Rule Ref | Description                       | Criteria   |
|----------|-----------------------------------|------------|
| R003062  | Stadium / non-obstruction (point) | (HGT < 46) |

**Label Information**

**Label Description:** Stadium / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Stadium"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Steep\_Terrain\_Face (DB010)**

Curve

**Symbol Information**

|                                                                                                                  |                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> LN_Dk-Brown1815_SteepTerrainFace_EqualOrGreaterThanContour                                      |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                                            |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. Ticks point downhill. |



**Steep\_Terrain\_Face (DB010) (continued)**

Curve

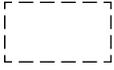
**Symbol Sample**

-----

**Storage\_Depot (AM010)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_StorageDepot                                                               |                                  |                                    |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |                                    |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |                                    |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 | <b>Element Type:</b> Line - Styled |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |                                    |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria |
|----------|-------------------------------|----------|
| R003100  | Storage Depot / all (surface) | ALL      |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Storage Depot / above surface (surface)                |
| <b>Additional Labeling Criteria:</b> | (LUN = 1000 [False] or LUN = -999999 [No Information]) |
| <b>Label String:</b>                 | "Storage depot"                                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |
| <b>Label Description:</b>            | Storage Depot / underground (surface)                  |
| <b>Additional Labeling Criteria:</b> | (LUN = 1001 [True])                                    |
| <b>Label String:</b>                 | "Underground storage depot"                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |

**Symbol Sample**

 Storage depot

 Underground storage depot

Point

**Symbol Information**

|                                                                                                                  |                                                                       |  |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_StorageDepot                     |  |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                     |  |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |  |  |

**Storage\_Depot (AM010) (continued)**

Point

|                                                              |                                                                             |                                     |
|--------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_0.8mmFilledSquare                 | <b>Element Reference:</b> P00006                                            | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black filled square with all sides 0.8mm |                                                                             |                                     |
| <b>Color Token:</b> Black                                    | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003634  | Storage Depot / all (point) | ALL      |

**Label Information**

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| <b>Label Description:</b>            | Storage Depot / above surface (point)                  |
| <b>Additional Labeling Criteria:</b> | (LUN = 1000 [False] or LUN = -999999 [No Information]) |
| <b>Label String:</b>                 | "Storage depot"                                        |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |
| <b>Label Description:</b>            | Storage Depot / underground (point)                    |
| <b>Additional Labeling Criteria:</b> | (LUN = 1001 [True])                                    |
| <b>Label String:</b>                 | "Underground storage depot"                            |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)            |

**Symbol Sample**

- Storage depot
- Underground storage depot

**Storage\_Tank (AM070)**

Point

| Symbol Information                                                                  |                                                                |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_StorageTank               |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                              |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of circle |

|                                                        |                                                                               |                                     |
|--------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_0.8mmFilledCircle           | <b>Element Reference:</b> P00053                                              | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.8mm diameter filled circle |                                                                               |                                     |
| <b>Color Token:</b> Black                              | <b>Parameters:</b><br><b>Diameter:</b> 0.8mm<br><b>Note:</b> Circle is filled |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                    | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003116  | Storage Tank / non-obstruction / other (point) | (HGT < 46) and (((PPO = 122 [Water]) and (SSC = 2 [Horizontal Capped Cylindrical] or SSC = 4 [Vertical Capped Cylindrical] or SSC = 12 [Pyramidal] or SSC = 17 [Spherical] or SSC = 59 [Cylindrical with Framework] or SSC = 65 [Cylindrical with Flat Top] or SSC = 66 [Cylindrical with Domed Top] or SSC = 71 [Cylindrical with Conical Top] or SSC = 87 [Domed] or SSC = 91 [Vertical Cylindrical] or SSC = 92 [Cubic] or SSC = 94 [Board-like Prism] or SSC = 99 [Horizontal Cylindrical] or SSC = 100 [Rectangular Prism] or SSC = 101 [Square Prism] or SSC = 999 [Other] or SSC = -999999 [No Information])) or (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 61 [Liquefied Natural Gas (LNG)] or PPO = 62 [Liquefied Petroleum Gas (LPG)] or PPO = 83 [Petroleum] or PPO = 90 [Radioactive Material] or PPO = 101 [Sewage] or PPO = 214 [Biodiesel] or PPO = 999 [Other] or PPO = -999999 [No Information])) |

**Label Information**

**Storage\_Tank (AM070) (continued)**

Point

**DRAFT**

**Label Description:** Storage Tank / known (point)  
**Additional Labeling Criteria:** (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 61 [Liquefied Natural Gas (LNG)] or PPO = 62 [Liquefied Petroleum Gas (LPG)] or PPO = 83 [Petroleum] or PPO = 90 [Radioactive Material] or PPO = 101 [Sewage] or PPO = 122 [Water] or PPO = 214 [Biodiesel])  
**Label String:** [PPO]  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

• Water • Gas

| Symbol Information                                                                                         |                                                                                                        |                                  |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Cyan_StorageTank_Water                                                  |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                       |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                            |                                  |
| <b>Element Name:</b> Cyan_WaterTower                                                                       |                                                                                                        | <b>Element Reference:</b> P00142 |
| <b>Description:</b> Cyan water tower                                                                       |                                                                                                        |                                  |
| <b>Color Token:</b> Cyan                                                                                   | <b>Parameters:</b><br>Note: See Element: Cyan_Water_Tower in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                          | Criteria                                                                                                   |
|----------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| R003614  | Storage Tank / non-obstruction / water tower (point) | (HGT < 46) and (PPO = 122 [Water]) and (SSC = 88 [Spherical on Column] or SSC = 89 [Cylindrical on Tower]) |

**Symbol Sample**

ⓘ

**Swamp (ED020)**

Surface

| Symbol Information                                                                                           |                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Lt-Green_Swamp                                                                           |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                        |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color and area pattern combined. |

**Swamp (ED020) (continued)**

Surface

|                                                                                                                                       |                                                                                                                                                                                            |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Lt-Green_Swamp                                                                                                   |                                                                                                                                                                                            | <b>Element Reference:</b> A00113 | <b>Element Type:</b> Area - Complex |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_ScatteredTreesFill (area pattern)                         |                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                          | <b>Parameters:</b><br><b>Area Fill/Pattern 1:</b> Cyan-31_ScreenFill<br><b>Area Fill/Pattern 2:</b> Green_ScatteredTreesFill<br><b>Note:</b> The two area fills are combined as one symbol |                                  |                                     |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                                               |                                                                                                                                                                                            | <b>Element Reference:</b> A00007 | <b>Element Type:</b> Area - Fill    |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                                                   |                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Cyan-31                                                                                                           | <b>Parameters:</b><br><b>Screen Angle:</b> 45 degrees                                                                                                                                      |                                  |                                     |
| <b>Element Name:</b> Lt-Green_ScatteredTreesFill                                                                                      |                                                                                                                                                                                            | <b>Element Reference:</b> A00107 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Scattered Trees Fill |                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                          | <b>Parameters:</b><br><b>Note:</b> Area Pattern #44                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                                               |                                                                                                                                                                                            | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                                          |                                                                                                                                                                                            |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                              | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm                                                                                        |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                              | Criteria                                                                   |
|----------|------------------------------------------|----------------------------------------------------------------------------|
| R003313  | Swamp / not nipa, not mangrove (surface) | (VSP = 8 [Cypress] or VSP = 999 [Other] or VSP = -999999 [No Information]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                                              |                                                                                                                                                                                      |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>                                                                                                                    | <b>Symbol Graphic Name:</b> AR_Lt-Green_NipaPalm                                                                                                                                     |                                  |                                     |
|                                                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                                                                                                     |                                  |                                     |
|                                                                                                                                              | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color and area pattern combined.                                                              |                                  |                                     |
| <b>Element Name:</b> Lt-Green_NipaPalm                                                                                                       |                                                                                                                                                                                      | <b>Element Reference:</b> A00114 | <b>Element Type:</b> Area - Complex |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_NipaPalmFill (area pattern)                                      |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                 | <b>Parameters:</b><br><b>Area Fill/Pattern 1:</b> Cyan-31_ScreenFill<br><b>Area Fill/Pattern 2:</b> Green_NipaPalmFill<br><b>Note:</b> The two area fills are combined as one symbol |                                  |                                     |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                                                      |                                                                                                                                                                                      | <b>Element Reference:</b> A00007 | <b>Element Type:</b> Area - Fill    |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                                                          |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Cyan-31                                                                                                                  | <b>Parameters:</b><br><b>Screen Angle:</b> 45 degrees                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Lt-Green_NipaPalmFill                                                                                                   |                                                                                                                                                                                      | <b>Element Reference:</b> A00108 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Nipa Palm Fill area pattern |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                 | <b>Parameters:</b><br><b>Note:</b> Area Pattern #7                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                                                      |                                                                                                                                                                                      | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                                                 |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                     | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm                                                                                  |                                  |                                     |

**Swamp (ED020) (continued)**

Surface

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria          |
|----------|------------------------|-------------------|
| R003335  | Swamp / nipa (surface) | (VSP = 22 [Nipa]) |

**Symbol Sample**



**Symbol Information**

|                                                                                                                                             |                                                                                                                                                                                      |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>                                  | <b>Symbol Graphic Name:</b> AR_Lt-Green_Mangrove                                                                                                                                     |                                  |                                     |
|                                                                                                                                             | <b>Apply Label to Symbol:</b> No                                                                                                                                                     |                                  |                                     |
|                                                                                                                                             | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color and area pattern combined.                                                              |                                  |                                     |
| <b>Element Name:</b> Lt-Green_Mangrove                                                                                                      |                                                                                                                                                                                      | <b>Element Reference:</b> A00116 | <b>Element Type:</b> Area - Complex |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_MangroveFill (area pattern)                                     |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                | <b>Parameters:</b><br><b>Area Fill/Pattern 1:</b> Cyan-31_ScreenFill<br><b>Area Fill/Pattern 2:</b> Green_MangroveFill<br><b>Note:</b> The two area fills are combined as one symbol |                                  |                                     |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                                                     |                                                                                                                                                                                      | <b>Element Reference:</b> A00007 | <b>Element Type:</b> Area - Fill    |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                                                         |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Cyan-31                                                                                                                 | <b>Parameters:</b><br><b>Screen Angle:</b> 45 degrees                                                                                                                                |                                  |                                     |
| <b>Element Name:</b> Lt-Green_MangroveFill                                                                                                  |                                                                                                                                                                                      | <b>Element Reference:</b> A00115 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Mangrove Fill area pattern |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                                | <b>Parameters:</b><br><b>Note:</b> Area Pattern #8                                                                                                                                   |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                                                                                     |                                                                                                                                                                                      | <b>Element Reference:</b> L00041 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap)                                                                |                                                                                                                                                                                      |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 2.0mm <b>Dash Spacing:</b> 0.5mm                                                                                  |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria              |
|----------|----------------------------|-----------------------|
| R003336  | Swamp / mangrove (surface) | (VSP = 19 [Mangrove]) |

**Symbol Sample**



**Tactical Air Navigation Aid (TACAN) Beacon (GA037 - Aeronautical Data Store)**

Point

**Tactical\_Air\_Navigation\_Aid\_(TACAN)\_Beacon (GA037 - Aeronautical Data Store) (continued)**

Point

| Symbol Information                                                                                         |                                                                                                                                                                                                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Navaid_TACAN                                                                                                                                                                                                                                  |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |
| <b>Element Name:</b> Blue072_Navaid_TACAN                                                                  |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00215 |
| <b>Description:</b> Blue072 navaid tacan                                                                   |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Navaid_TACAN in Annex H for detailed drawing instructions.                                                                                                                                                                   |                                  |

| Symbol Portrayal Rules |                                                    |            |
|------------------------|----------------------------------------------------|------------|
| Rule Ref               | Description                                        | Criteria   |
| R003683                | Tactical Air Navigation Aid (TACAN) Beacon (point) | (HGT < 46) |

| Label Information                    |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Label Description:</b>            | Tactical Air Navigation Aid (TACAN) Beacon (point) |
| <b>Additional Labeling Criteria:</b> | N/A                                                |
| <b>Label String:</b>                 | [GA032_NSX]<br>[GA037_TAC]                         |
| <b>Characteristics:</b>              | 29,29<br>29 (Blue072, Condensed, 7 pt, Upper case) |

| Symbol Sample                                                                       |  |
|-------------------------------------------------------------------------------------|--|
|  |  |

**Tank\_Farm (AM071)**

Surface

| Symbol Information                                                                                           |                                                                                                                 |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_TankFarm                                                                   |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                   |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm             |                                  |

| Symbol Portrayal Rules |                           |          |
|------------------------|---------------------------|----------|
| Rule Ref               | Description               | Criteria |
| R003564                | Tank Farm / all (surface) | ALL      |

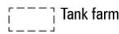
| Label Information                    |                           |
|--------------------------------------|---------------------------|
| <b>Label Description:</b>            | Tank Farm / all (surface) |
| <b>Additional Labeling Criteria:</b> | N/A                       |

**Tank\_Farm (AM071) (continued)**

Surface

**Label String:** "Tank farm"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_TankFarm                               |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             |
| <b>Element Reference:</b> P00006                                                                               |                                                                             |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                             |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003565  | Tank Farm / all (point) | ALL      |

**Label Information**

**Label Description:** Tank Farm / known (point)  
**Additional Labeling Criteria:** (PPO = 16 [Chemical] or PPO = 45 [Gas] or PPO = 46 [Petrol] or PPO = 61 [Liquefied Natural Gas (LNG)] or PPO = 62 [Liquefied Petroleum Gas (LPG)] or PPO = 83 [Petroleum] or PPO = 214 [Biodiesel])

**Label String:** [PPO] "tank farm"  
**Characteristics:** 1,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Label Description:** Tank Farm / unknown (point)  
**Additional Labeling Criteria:** (PPO = 999 [Other] or PPO = -999999 [No Information])

**Label String:** "Tank farm"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Tidal\_Water (BA040)**

Surface

**Tidal\_Water (BA040) (continued)**

Surface

| Symbol Information                                                                                         |                                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Cyan_TidalWater                                                |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                             |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the screened color. |                                  |
| <b>Element Name:</b> Cyan-31_ScreenFill                                                                    |                                                                                               | <b>Element Reference:</b> A00007 |
| <b>Description:</b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle)                        |                                                                                               |                                  |
| <b>Color Token:</b> Cyan-31                                                                                | <b>Parameters:</b><br>Screen Angle: 45 degrees                                                |                                  |

| Symbol Portrayal Rules |                             |          |
|------------------------|-----------------------------|----------|
| Rule Ref               | Description                 | Criteria |
| R003165                | Tidal Water / all (surface) | ALL      |

| Label Information                    |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Tidal Water / large area (surface)                      |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [ZI005_FNA]                                             |
| <b>Characteristics:</b>              | 59<br>59 (Cyan, Condensed, Italic, 8-18 pt, Upper case) |
| <b>Label Description:</b>            | Tidal Water / small area (surface)                      |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [ZI005_FNA]                                             |
| <b>Characteristics:</b>              | 57<br>57 (Cyan, Condensed, Italic, 7-10 pt, Mixed case) |

| Symbol Sample                                                                       |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |

**Tower (AL241)**

Point

| Symbol Information                                                                                           |                                                                                                          |                                  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Tower                                                               |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> No                                                                         |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of dot.                                             |                                  |
| <b>Element Name:</b> Black_Tower                                                                             |                                                                                                          | <b>Element Reference:</b> P00141 |
| <b>Description:</b> Black tower                                                                              |                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Tower in Annex H for detailed drawing instructions |                                  |

| Symbol Portrayal Rules |                                 |                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                     | Criteria                                                                                                                                                                                                                                                                    |
| R003096                | Tower / non-obstruction (point) | (TTC = 2 [Observation Tower] or TTC = 10 [Lookout Tower] or TTC = 12 [Fire Tower] or TTC = 21 [Guard Tower] or TTC = 22 [ Industrial Tower] or TTC = 23 [Drop Tower] or TTC = 24 [Solar Power Tower] or TTC = 999 [Other] or TTC = -999999 [No Information]) and (HGT < 46) |

**Tower (AL241) (continued)**

Point

**Symbol Sample**



| Symbol Information                                                                                             |                                                                                                                         |                                  |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_Tower_Communication                                                                |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                        |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                             |                                  |
| <b>Element Name:</b> Black_Communication_Tower                                                                 |                                                                                                                         | <b>Element Reference:</b> P00155 |
| <b>Description:</b> Black communication tower                                                                  |                                                                                                                         |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Communication_Tower in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                   | Criteria                                            |
|----------|-------------------------------|-----------------------------------------------------|
| R003561  | Tower / communication (point) | (TTC = 20 [Telecommunication Tower]) and (HGT < 46) |

**Symbol Sample**



| Symbol Information                                                                                               |                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Tower_VO                                                                          |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                        |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Use this symbol to replace any point feature with HGT >= 46. Origin: Center of dot |                                  |
| <b>Element Name:</b> Blue072_Obstruction                                                                         |                                                                                                                          | <b>Element Reference:</b> P00008 |
| <b>Description:</b> Blue072 vertical obstruction                                                                 |                                                                                                                          |                                  |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Obstruction in Annex H for detailed drawing instructions.        |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria    |
|----------|--------------------------------------|-------------|
| R003689  | Tower / obstruction / single (point) | (HGT >= 46) |

**Label Information**

|                                      |                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Tower / obstruction / single / onshore (point)                                                              |
| <b>Additional Labeling Criteria:</b> | ZVH and HGT values are converted from meters to feet.                                                       |
| <b>Label String:</b>                 | [ZVH]<br>"("[HGT]")"                                                                                        |
| <b>Characteristics:</b>              | 46,95,95,95<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |

**Tower (AL241) (continued)**

**Point**

**Label Description:** Tower / obstruction / single / offshore (point)  
**Additional Labeling Criteria:** HGT value is converted from meters to feet.

**Label String:** "[[HGT]]"  
**Characteristics:** 95,95,95  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Symbol Information**

|                                                                                                                |                                                                                                            |                                  |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_Tower_Multiple_VO                                                   |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                          |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot of highest object in group                     |                                  |
| <b>Element Name:</b> Blue072_Multiple_VO                                                                       |                                                                                                            | <b>Element Reference:</b> P00101 |
| <b>Description:</b> Blue072 multiple vertical obstruction                                                      |                                                                                                            |                                  |
| <b>Color Token:</b> Blue072                                                                                    | <b>Parameters:</b><br>Note: See Element: Blue072_Multiple_VO in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                                                                                                  |
|----------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| R003690  | Tower / obstruction / multiple (point) | Use this symbol to replace a group of single Tower vertical obstruction symbols that are overprinting in congested areas. |

**Label Information**

**Label Description:** Tower / obstruction / multiple / onshore (point)  
**Additional Labeling Criteria:** ZVH and HGT values are converted from meters to feet.

**Label String:** [ZVH]  
 "[[HGT]]"

**Characteristics:** 46,95,95,95  
 46 (Blue072, Condensed, Bold, 6 pt, Lower case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Label Description:** Tower / obstruction / multiple / offshore (point)  
**Additional Labeling Criteria:** HGT value is converted from meters to feet.

**Label String:** "[[HGT]]"  
**Characteristics:** 95,95,95  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Trail (AP050)**

**Curve**

**Trail (AP050) (continued)**

Curve

| Symbol Information                                                                |                                                                                                |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: LN_Black_Trail                                                            |                             |
|                                                                                   | Apply Label to Symbol: Yes                                                                     |                             |
|                                                                                   | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature. |                             |
| Element Name: Black_0.2mm-1mmLenDash-0.5mmGapLine                                 | Element Reference: L00031                                                                      | Element Type: Line - Styled |
| Description: Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)            |                                                                                                |                             |
| Color Token: Black                                                                | Parameters:<br>Lineweight: 0.2mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm              |                             |

| Symbol Portrayal Rules |                     |          |
|------------------------|---------------------|----------|
| Rule Ref               | Description         | Criteria |
| R003129                | Trail / all (curve) | ALL      |

| Label Information             |                                                             |
|-------------------------------|-------------------------------------------------------------|
| Label Description:            | Trail / winter (curve)                                      |
| Additional Labeling Criteria: | (ZI016_WTC = 3 [Winter Only])                               |
| Label String:                 | "Winter only"                                               |
| Characteristics:              | 10<br>10 (Black, Light Condensed, Italic, 6 pt, Mixed case) |

| Symbol Sample |                                |
|---------------|--------------------------------|
| -----         | ----- <i>Winter only</i> ----- |

**Training\_Site (FA165)**

Surface

| Symbol Information                                                                  |                                                                                                          |                             |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|
|  | Symbol Graphic Name: AR_Black_TrainingSite                                                               |                             |
|                                                                                     | Apply Label to Symbol: Yes                                                                               |                             |
|                                                                                     | Symbol Placement Instructions: The linear symbology is applied to the perimeter of the surface geometry. |                             |
| Element Name: Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                 | Element Reference: L00210                                                                                | Element Type: Line - Styled |
| Description: Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)              |                                                                                                          |                             |
| Color Token: Black                                                                  | Parameters:<br>Lineweight: 0.1mm      Dash Length: 1.0mm      Dash Spacing: 0.5mm                        |                             |

| Symbol Portrayal Rules |                               |          |
|------------------------|-------------------------------|----------|
| Rule Ref               | Description                   | Criteria |
| R003559                | Training Site / all (surface) | ALL      |

| Label Information             |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Label Description:            | Training Site / military (surface)                            |
| Additional Labeling Criteria: | (CAA = 5 [Military] or CAA = 7 [Joint Military and Civilian]) |
| Label String:                 | [ZI005_FNA] "Military training site"                          |
| Characteristics:              | 1,1                                                           |

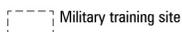
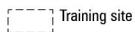
**Training\_Site (FA165) (continued)**

Surface

1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Training Site / other (surface)  
**Additional Labeling Criteria:** (CAA = 3 [Private] or CAA = 16 [Civilian] or CAA = 17 [Public] or CAA = 999 [Other] or CAA = -999999 [No Information])  
**Label String:** [Z1005\_FNA] "Training site"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                |                                                                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_TrainingSite                           |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                           |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of filled square       |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                   |                                                                             |
| <b>Element Reference:</b> P00006                                                                               |                                                                             |
| <b>Element Type:</b> Point - Simple                                                                            |                                                                             |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                   |                                                                             |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled |

**Symbol Portrayal Rules**

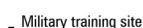
| Rule Ref | Description                 | Criteria |
|----------|-----------------------------|----------|
| R003560  | Training Site / all (point) | ALL      |

**Label Information**

**Label Description:** Training Site / military (point)  
**Additional Labeling Criteria:** (CAA = 5 [Military] or CAA = 7 [Joint Military and Civilian])  
**Label String:** [Z1005\_FNA] "Military training site"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Label Description:** Training Site / other (point)  
**Additional Labeling Criteria:** (CAA = 3 [Private] or CAA = 16 [Civilian] or CAA = 17 [Public] or CAA = 999 [Other] or CAA = -999999 [No Information])  
**Label String:** [Z1005\_FNA] "Training site"  
**Characteristics:** 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Transportation\_Route\_Protection\_Structure (AL211)**

Curve

**Transportation\_Route\_Protection\_Structure (AL211) (continued)**

**Curve**

| Symbol Information                                                                                                 |                                                                                                                                                                                                                                                                                    |                                  |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>     | <b>Symbol Graphic Name:</b> LN_Black_TransRouteProtectStruct                                                                                                                                                                                                                       |                                  |
|                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                  |                                  |
|                                                                                                                    | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                              |                                  |
| <b>Element Name:</b> Black_ProtectionStructure                                                                     |                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00357 |
| <b>Description:</b> Black 1.5mm Solid Line (1.5mm wt) with a Black 1.1mm (1.1mm wt) LP15 Fill Line centered inside |                                                                                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Line Style:</b> Black_1.5mmSolidLine<br><b>Line Style 2:</b> Black_1.1mm_LP15FillLine<br><b>Note:</b> The Black 1.5mm solid line combined with the 1.1mm width LP15 filled line placed inside form a 0.2mm lineweight outline with a total width of 1.5mm |                                  |
| <b>Element Name:</b> Black_1.5mmSolidLine                                                                          |                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00365 |
| <b>Description:</b> Black 1.5mm Solid Line (1.5mm wt)                                                              |                                                                                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 1.5mm                                                                                                                                                                                                                                     |                                  |
| <b>Element Name:</b> Black_1.1mm_LP15FillLine                                                                      |                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> L00356 |
| <b>Description:</b> Black 1.1mm width Solid Line (1.1mm wt) filled with LP-15 (line pattern 15)                    |                                                                                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Black                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 1.1mm<br><b>Note:</b> 1.1mm width line filled with Black LP-15. See Element: Black_LP15_Fill in Annex I                                                                                                                                   |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                             | Criteria |
|----------|---------------------------------------------------------|----------|
| R003736  | Transportation Route Protection Structure / all (curve) | ALL      |

**Label Information**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Transportation Route Protection Structure / all (curve) |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | "Protection shed"                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)             |

**Symbol Sample**



**Point**

| Symbol Information                                                                                                                |                                                                                                                                                                                                                 |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br>                  | <b>Symbol Graphic Name:</b> PT_Black_TransRouteProtectStruct                                                                                                                                                    |                                  |
|                                                                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                               |                                  |
|                                                                                                                                   | <b>Symbol Placement Instructions:</b> The point symbol is oriented per the AOO attribute. Origin: Center of rectangle                                                                                           |                                  |
| <b>Element Name:</b> Black_PT_TransRouteProtectStruct                                                                             |                                                                                                                                                                                                                 | <b>Element Reference:</b> P00152 |
| <b>Description:</b> Black 1.5mm x 2.5mm rectangle with a 0.2mm lineweight outline perimeter and filled with the line pattern LP15 |                                                                                                                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                                         | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm<br><b>Note:</b> Black 1.5mm x 2.5mm rectangle has a 0.2mm lineweight outline perimeter and is filled with a line pattern. See Element: Black_LP15Fill in Annex I |                                  |

**Transportation\_Route\_Protection\_Structure (AL211) (continued)**

Point

**Symbol Portrayal Rules**

| Rule Ref | Description                                             | Criteria |
|----------|---------------------------------------------------------|----------|
| R003556  | Transportation Route Protection Structure / all (point) | ALL      |

**Label Information**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Transportation Route Protection Structure / all (point) |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | "Protection shed"                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)             |

**Symbol Sample**



**Transportation\_Station (AQ125)**

Surface

**Symbol Information**

|                                                                                                             |                                                                                                                                          |                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_TransportationStation                                                                               |                                  |
|                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                             | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the solid color. A minimum plotted width of 0.5mm is required. |                                  |
| <b>Element Name:</b> Black_SolidAreaFill                                                                    |                                                                                                                                          | <b>Element Reference:</b> A00006 |
| <b>Description:</b> Black Solid Fill                                                                        |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                   | <b>Parameters:</b><br><b>Note:</b> Solid Fill                                                                                            |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                         | Criteria                                                                                                                                                     |
|----------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003144  | Transportation Station / railway / usable (surface) | (FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport]) and (TRS = 12 [Railway]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) |

**Label Information**

|                                      |                                               |
|--------------------------------------|-----------------------------------------------|
| <b>Label Description:</b>            | Transportation Station / all (surface)        |
| <b>Additional Labeling Criteria:</b> | N/A                                           |
| <b>Label String:</b>                 | "Station"                                     |
| <b>Characteristics:</b>              | 1,1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



Point

**Transportation\_Station (AQ125) (continued)**

Point

| Symbol Information                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                           |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Symbol Graphic</b><br><br>                                                       | <b>Symbol Graphic Name:</b> PT_Black_TransportationStation                                                                                                                                                                                                                                                                |                                      |
|                                                                                                                                                                      | <b>Apply Label to Symbol:</b> No                                                                                                                                                                                                                                                                                          |                                      |
|                                                                                                                                                                      | <b>Symbol Placement Instructions:</b> The point symbol is centered on top of and aligned with railway symbol. Origin: Center of open square                                                                                                                                                                               |                                      |
| <b>Element Name:</b> Passenger-Terminal                                                                                                                              | <b>Element Reference:</b> P00079                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Complex |
| <b>Description:</b> A Black 0.8mm filled square inside of a larger open square. The smaller filled square is centered along and touching one side of the open square |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Point 1 Name:</b> Black_0.8mmFilledSquare<br><b>Point 2 Name:</b> Black_0.1mm-1.2mmwideSquareOpen<br><b>Note:</b> Point element "Black_SquareFilled" positioned inside the open square, touching side of open square that is parallel to railway track on the same side as the terminal building |                                      |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                                                                         | <b>Element Reference:</b> P00006                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                                                                         |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Length:</b> 0.8mm<br><b>Note:</b> Square is filled                                                                                                                                                                                                                                               |                                      |
| <b>Element Name:</b> Black_0.1mm-1.2mmwideSquareOpen                                                                                                                 | <b>Element Reference:</b> P00033                                                                                                                                                                                                                                                                                          | <b>Element Type:</b> Point - Simple  |
| <b>Description:</b> Black open square (0.1mm wt, 1.2mm long/wide)                                                                                                    |                                                                                                                                                                                                                                                                                                                           |                                      |
| <b>Color Token:</b> Black                                                                                                                                            | <b>Parameters:</b><br><b>Length:</b> 1.2mm<br><b>Lineweight:</b> 0.1mm                                                                                                                                                                                                                                                    |                                      |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                                                                                                                                    |
|----------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003408  | Transportation Station / railway / usable (point) | (FFN = 490 [Railway Transport] or FFN = 491 [Railway Passenger Transport]) and (TRS = 12 [Railway]) and (PCF = 2 [Intact] or PCF = -999999 [No Information]) and (HGT < 46) |

**Symbol Sample**



**Tundra (BJ110)**

Surface

| Symbol Information                         |                                                                                      |  |
|--------------------------------------------|--------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br><i>TUNDRA</i> | <b>Symbol Graphic Name:</b> AR_Tundra                                                |  |
|                                            | <b>Apply Label to Symbol:</b> Yes                                                    |  |
|                                            | <b>Symbol Placement Instructions:</b> Static text label only. No Graphic Parameters. |  |
| AREA LABEL ONLY                            |                                                                                      |  |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria |
|----------|------------------------|----------|
| R003233  | Tundra / all (surface) | ALL      |

**Label Information**

**Label Description:** Tundra / all (surface)  
**Additional Labeling Criteria:** N/A

**Tundra (BJ110) (continued)**

Surface

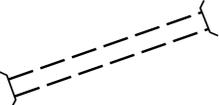
Label String: "TUNDRA"  
 Characteristics: 39  
 39 (Black, Condensed, Italic, 7-16 pt, Upper case)

Symbol Sample

TUNDRA

**Tunnel (AQ130)**

Curve

| Symbol Information                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                                                            | Symbol Graphic Name: LN_Black_Tunnel_Road                                                                                                                                                                                                                                                                                              |                              |
|                                                                                                                                             | Apply Label to Symbol: Yes                                                                                                                                                                                                                                                                                                             |                              |
|                                                                                                                                             | Symbol Placement Instructions: The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                         |                              |
| Element Name: Black_Tunnel (Road)                                                                                                           | Element Reference: L00097                                                                                                                                                                                                                                                                                                              | Element Type: Line - Complex |
| Description: Cased Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Black 0.2mm Tick Entrance/Exit at each end              |                                                                                                                                                                                                                                                                                                                                        |                              |
| Color Token: Black                                                                                                                          | <b>Parameters:</b><br>Line Style: Cased_Black_0.2mm_1mmDashed-0.5mmGapLine<br>Fix at Start: Black_0.2mmTick-Entrance/Exit<br>Fix at End: Black_0.2mmTick-Entrance/Exit<br>Note: A Black Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                              |
| Element Name: Cased_Black_0.2mm_1mmDashed-0.5mmGapLine                                                                                      | Element Reference: L00213                                                                                                                                                                                                                                                                                                              | Element Type: Line - Styled  |
| Description: Black 0.2mm Cased Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)                                                                |                                                                                                                                                                                                                                                                                                                                        |                              |
| Color Token: Black                                                                                                                          | <b>Parameters:</b><br>Lineweight: 0.2mm                      Dash Length: 1.0mm                      Dash Spacing: 0.5mm<br>Note: Cased spacing is 1.3mm (spacing between dashed lines)                                                                                                                                                |                              |
| Element Name: Black_0.2mmTick-Entrance/Exit                                                                                                 | Element Reference: P00073                                                                                                                                                                                                                                                                                                              | Element Type: Point - Simple |
| Description: Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                        |                              |
| Color Token: Black                                                                                                                          | <b>Parameters:</b><br>Headline: Lineweight: 0.2mm Length: 2.0mm<br>Wingtick: Lineweight: 0.2mm Length: 0.6mm<br>Note: Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                      |                              |
| Element Name: Black_0.2mmTick-Entrance/Exit                                                                                                 | Element Reference: P00073                                                                                                                                                                                                                                                                                                              | Element Type: Point - Simple |
| Description: Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                        |                              |
| Color Token: Black                                                                                                                          | <b>Parameters:</b><br>Headline: Lineweight: 0.2mm Length: 2.0mm<br>Wingtick: Lineweight: 0.2mm Length: 0.6mm<br>Note: Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                      |                              |

Symbol Portrayal Rules

| Rule Ref | Description           | Criteria                           |
|----------|-----------------------|------------------------------------|
| R003149  | Tunnel / road (curve) | (LZN >= 500) and (TRS = 13 [Road]) |

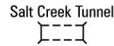
Label Information

Label Description: Tunnel / road / all (curve)  
 Additional Labeling Criteria: N/A  
 Label String: [ZI005\_FNA] "Tunnel"  
 Characteristics: 1,1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Tunnel (AQ130) (continued)**

Curve

**Symbol Sample**



**Symbol Information**

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                                                                                                                                    | <b>Symbol Graphic Name:</b> LN_Black_Tunnel_Rail                                                                                                                                                                                                                                                                                                              |                                  |                                     |
|                                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                             |                                  |                                     |
|                                                                                                                                                    | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                                                                                                         |                                  |                                     |
| <b>Element Name:</b> Black_Tunnel (Rail)                                                                                                           |                                                                                                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00096 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Black 0.2mm Tick Entrance/Exit at each end                    |                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b><br><b>Line Style:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine<br><b>Fix at Start:</b> Black_0.2mmTick-Entrance/Exit<br><b>Fix at End:</b> Black_0.2mmTick-Entrance/Exit<br><b>Note:</b> A Black Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                  |                                     |
| <b>Element Name:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine                                                                                           |                                                                                                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> L00031 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)                                                                      |                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm                                                                                                                                                                                                                                                                                                                | <b>Dash Length:</b> 1.0mm        | <b>Dash Spacing:</b> 0.5mm          |
| <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b><br><b>Headline:</b> Lineweight: 0.2mm Length: 2.0mm<br><b>Wingtick:</b> Lineweight: 0.2mm Length: 0.6mm<br><b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                                               |                                  |                                     |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b><br><b>Headline:</b> Lineweight: 0.2mm Length: 2.0mm<br><b>Wingtick:</b> Lineweight: 0.2mm Length: 0.6mm<br><b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                        |                                  |                                     |

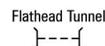
**Symbol Portrayal Rules**

| Rule Ref | Description                                            | Criteria                                                                                                                                                  |
|----------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003146  | Tunnel / pedestrian, railway, road and railway (curve) | (LZN >= 500) and ((TRS = 9 [Pedestrian] or TRS = 12 [Railway]) or (TRS = 12 [Railway] and TRS2 = 13 [Road]) or (TRS = 13 [Road] and TRS2 = 12 [Railway])) |

**Label Information**

|                                                                   |                                                                       |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Tunnel / pedestrian, railway, road and railway / all (curve)<br>N/A   |
| <b>Label String:</b><br><b>Characteristics:</b>                   | [Z1005_FNA] "Tunnel"<br>1,1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Tunnel (AQ130) (continued)**

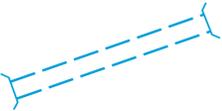
Curve

| Symbol Information                                                                                         |                                                                                                                                                                                     |                                    |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Tunnel                                                                                                                                         |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                   |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The point symbol is placed at the center and aligned to the curve geometry. Origin: Center of symbol (centered in the gap between the dashes) |                                    |
| <b>Element Name:</b> Black_PT_Tunnel                                                                       | <b>Element Reference:</b> P00151                                                                                                                                                    | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black point tunnel                                                                     |                                                                                                                                                                                     |                                    |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Black_PT_Tunnel in Annex H for detailed drawing instructions                                                                        |                                    |

| Symbol Portrayal Rules |                                                                |                                                                                                                                                                             |
|------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                                                    | Criteria                                                                                                                                                                    |
| R003566                | Tunnel / pedestrian, railway, road and railway / small (curve) | (LZN < 500) and ((TRS = 9 [Pedestrian] or TRS = 12 [Railway] or TRS = 13 [Road]) or (TRS = 12 [Railway] and TRS2 = 13 [Road]) or (TRS = 13 [Road] and TRS2 = 12 [Railway])) |

| Label Information                    |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| <b>Label Description:</b>            | Tunnel / pedestrian, railway, road and railway / small (curve) |
| <b>Additional Labeling Criteria:</b> | N/A                                                            |
| <b>Label String:</b>                 | "Tunnel"                                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case)                    |

| Symbol Sample                                                                       |
|-------------------------------------------------------------------------------------|
|  |

| Symbol Information                                                                                           |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> LN_Cyan_Tunnel_Aqueduct                                                   |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                                              | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |



**Tunnel (AQ130) (continued)**

Curve

|                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Tunnel (Canal)                                                                                                          |                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00095 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Cyan 0.2mm Tick Entrance/Exit at each end                     |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                          | <b>Parameters:</b><br><b>Line Style:</b> Cyan_0.2mm-1mmLenDash-0.5mmGapLine<br><b>Fix at Start:</b> Cyan_0.2mmTick-Entrance/Exit<br><b>Fix at End:</b> Cyan_0.2mmTick-Entrance/Exit<br><b>Note:</b> A Cyan Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mm-1mmLenDash-0.5mmGapLine                                                                                           |                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> L00040 | <b>Element Type:</b> Line - Styled  |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap)                                                                      |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                          | <b>Parameters:</b><br><b>Lineweight:</b> 0.2mm <b>Dash Length:</b> 1.0mm <b>Dash Spacing:</b> 0.5mm                                                                                                                                                                                                                                                       |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                          | <b>Parameters:</b><br><b>Headline:</b> Lineweight: 0.2mm Length: 2.0mm<br><b>Wingtick:</b> Lineweight: 0.2mm Length: 0.6mm<br><b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                    |                                  |                                     |
| <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                                                                                           |                                  |                                     |
| <b>Color Token:</b> Cyan                                                                                                                          | <b>Parameters:</b><br><b>Headline:</b> Lineweight: 0.2mm Length: 2.0mm<br><b>Wingtick:</b> Lineweight: 0.2mm Length: 0.6mm<br><b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                                                                                                    |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                             | Criteria                                                         |
|----------|-----------------------------------------|------------------------------------------------------------------|
| R003148  | Tunnel / canal, inland waterway (curve) | (LZN >= 500) and (TRS = 5 [Canal] or TRS = 17 [Inland Waterway]) |

**Label Information**

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>Label Description:</b>            | Tunnel / canal, inland waterway / all (curve)   |
| <b>Additional Labeling Criteria:</b> | N/A                                             |
| <b>Label String:</b>                 | [Z1005_FNA] "Tunnel"                            |
| <b>Characteristics:</b>              | 14,14<br>14 (Cyan, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Symbol Information**

|                                       |                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br>             | <b>Symbol Graphic Name:</b> PT_Cyan_Tunnel                                                                                                                                          |
|                                       | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                   |
|                                       | <b>Symbol Placement Instructions:</b> The point symbol is placed at the center and aligned to the curve geometry. Origin: Center of symbol (centered in the gap between the dashes) |
| <b>Element Name:</b> Cyan_PT_Tunnel   |                                                                                                                                                                                     |
| <b>Element Reference:</b> P00150      |                                                                                                                                                                                     |
| <b>Element Type:</b> Point - Shape    |                                                                                                                                                                                     |
| <b>Description:</b> Cyan point tunnel |                                                                                                                                                                                     |
| <b>Color Token:</b> Cyan              | <b>Parameters:</b><br><b>Note:</b> See Element: Cyan_PT_Tunnel in Annex H for detailed drawing instructions                                                                         |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Tunnel (AQ130) (continued)**

Curve

R003567 Tunnel / aqueduct, canal, inland waterway (curve) (LZN < 500) and (TRS = 2 [Aqueduct] or TRS = 5 [Canal] or TRS = 17 [Inland Waterway])

**Label Information**

**Label Description:** Tunnel / aqueduct, canal, inland waterway / small (curve)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Tunnel"  
**Characteristics:** 14  
 14 (Cyan, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Tunnel\_Mouth (AQ095)**

Point

**Symbol Information**

|                                                                                                                                                    |                                                                                                                                                                                                                                                                                        |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br>                                                                                                                          | <b>Symbol Graphic Name:</b> PT_Black_TunnelMouth                                                                                                                                                                                                                                       |                                  |
|                                                                                                                                                    | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                      |                                  |
|                                                                                                                                                    | <b>Symbol Placement Instructions:</b> Use this symbol ONLY when there is not an associated Tunnel feature. The baseline of the symbol is placed at right angles to the coinciding transportation feature and the Wingticks are placed away from the tunnel. Origin: Center of baseline |                                  |
| <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit                                                                                                 |                                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> P00073 |
| <b>Element Type:</b> Point - Simple                                                                                                                |                                                                                                                                                                                                                                                                                        |                                  |
| <b>Description:</b> Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                                                                                                                                                                                                                                                        |                                  |
| <b>Color Token:</b> Black                                                                                                                          | <b>Parameters:</b>                                                                                                                                                                                                                                                                     |                                  |
| <b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                           |                                                                                                                                                                                                                                                                                        |                                  |

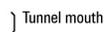
**Symbol Portrayal Rules**

| Rule Ref | Description                | Criteria |
|----------|----------------------------|----------|
| R003737  | Tunnel Mouth / all (point) | ALL      |

**Label Information**

**Label Description:** Tunnel Mouth / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Tunnel mouth"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**



**Vanishing\_Point (BH145)**

Point



**Vertical\_Obstruction (No Code) (continued)**

Point

| Symbol Information                                                                |                                                                                                                    |                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Blue072_VO                                                                          |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> Yes                                                                                  |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> Use this symbol to replace any feature with HGT >= 46. Origin: Center of dot |                                  |
| <b>Element Name:</b> Blue072_Obstruction                                          |                                                                                                                    | <b>Element Reference:</b> P00008 |
| <b>Description:</b> Blue072 vertical obstruction                                  |                                                                                                                    |                                  |
| <b>Color Token:</b> Blue072                                                       | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Obstruction in Annex H for detailed drawing instructions.  |                                  |

| Symbol Portrayal Rules |                                       |                                                                                                                                     |
|------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Rule Ref               | Description                           | Criteria                                                                                                                            |
| R003512                | Vertical Obstruction / single (point) | (Feature <> AL241 [Tower] and Feature <> AT005 [Cable] and Feature <> AT041 [Cableway] and Feature <> AT042 [Pylon] and (HGT >= 46) |

| Label Information                    |                                                                                                                                                             |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Vertical Obstruction (excluding Tower & Pylon) / onshore / single (point)                                                                                   |
| <b>Additional Labeling Criteria:</b> | Structures that are located onshore. ZVH and HGT values are converted from meters to feet.                                                                  |
| <b>Label String:</b>                 | [Feature Name]<br>[ZVH]<br>("[HGT]")                                                                                                                        |
| <b>Characteristics:</b>              | 15,46,95,95,95<br>15 (Blue072, Condensed, 6 pt, Mixed case)<br>46 (Blue072, Condensed, Bold, 6 pt, Lower case)<br>95 (Blue072, Condensed, 6 pt, Lower case) |
| <b>Label Description:</b>            | Vertical Obstruction (excluding Tower & Pylon) / offshore / single (point)                                                                                  |
| <b>Additional Labeling Criteria:</b> | Structures that are located onshore. HGT values are converted from meters to feet.                                                                          |
| <b>Label String:</b>                 | [Feature Name]<br>("[HGT]")                                                                                                                                 |
| <b>Characteristics:</b>              | 15,95,95,95<br>15 (Blue072, Condensed, 6 pt, Mixed case)<br>95 (Blue072, Condensed, 6 pt, Lower case)                                                       |

**Symbol Sample**



| Symbol Information                                                                  |                                                                                                                   |                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Blue072_Multiple_VO                                                                |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                 |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of dot of highest object in group                            |                                  |
| <b>Element Name:</b> Blue072_Multiple_VO                                            |                                                                                                                   | <b>Element Reference:</b> P00101 |
| <b>Description:</b> Blue072 multiple vertical obstruction                           |                                                                                                                   |                                  |
| <b>Color Token:</b> Blue072                                                         | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Multiple_VO in Annex H for detailed drawing instructions. |                                  |

| Symbol Portrayal Rules |             |          |
|------------------------|-------------|----------|
| Rule Ref               | Description | Criteria |

**Vertical Obstruction (No Code) (continued)**

Point

R003513 Vertical Obstruction / multiple (point) Use this symbol to replace a group of single vertical obstruction symbols that are overprinting in congested areas and normally have the same feature class.

**Label Information**

**Label Description:** Vertical Obstruction (excluding Tower & Pylon) / onshore / multiple (point)  
**Additional Labeling Criteria:** Structures that are located onshore. ZVH and HGT values are converted from meters to feet.

**Label String:** [Feature Name]"s"  
 [ZVH]  
 "["[HGT]""]

**Characteristics:** 15,95,46,95,95,95  
 15 (Blue072, Condensed, 6 pt, Mixed case)  
 46 (Blue072, Condensed, Bold, 6 pt, Lower case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Label Description:** Vertical Obstruction (excluding Tower & Pylon) / offshore / multiple (point)  
**Additional Labeling Criteria:** Structures that are located onshore. HGT values are converted from meters to feet.

**Label String:** [Feature Name]"s"  
 "["[HGT]""]

**Characteristics:** 15,95,95,95,95,  
 15 (Blue072, Condensed, 6 pt, Mixed case)  
 95 (Blue072, Condensed, 6 pt, Lower case)

**Symbol Sample**



**VHF Omnidirectional Radio (VOR) Beacon (GA036 - Aeronautical Data Store)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                                                                                                                                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Blue072_VOR_Beacon                                                                                                                                                                                                                                    |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |
| <b>Element Name:</b> Blue072_Navaid_VOR                                                                          |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00213 |
| <b>Description:</b> Blue072 navaid vor                                                                           |                                                                                                                                                                                                                                                                                      |                                  |
| <b>Color Token:</b> Blue072                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Navaid_VOR in Annex H for detailed drawing instructions.                                                                                                                                                                     |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                    | Criteria   |
|----------|------------------------------------------------|------------|
| R003681  | VHF Omnidirectional Radio (VOR) Beacon (point) | (HGT < 46) |

**Label Information**

**Label Description:** VHF Omnidirectional Radio (VOR) Beacon (point)  
**Additional Labeling Criteria:** N/A

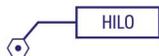
**Label String:** [GA032\_NSX]

**Characteristics:** 29  
 29 (Blue072, Condensed, 7 pt, Upper case)

VHF\_Omnidirectional\_Radio\_(VOR)\_Beacon (GA036 - Aeronautical Data Store) (continued)

Point

Symbol Sample



Symbol Information

|                                                                                                            |                                                                                                                                                                                                                                                                                      |                                  |                                    |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_VORTAC_Beacon                                                                                                                                                                                                                                 |                                  |                                    |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |                                    |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |                                    |
| <b>Element Name:</b> Blue072_Navaid_VORTAC                                                                 |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00214 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Blue072 navaid vortac                                                                  |                                                                                                                                                                                                                                                                                      |                                  |                                    |
| <b>Color Token:</b> Blue072                                                                                | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Navaid_VORTAC in Annex H for detailed drawing instructions.                                                                                                                                                                  |                                  |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                                       | Criteria                                                                    |
|----------|---------------------------------------------------|-----------------------------------------------------------------------------|
| R003682  | VHF Omnidirectional Radio (VORTAC) Beacon (point) | Used in conjunction with Tactical Air Navigation Aid (TACAN) and (HGT < 46) |

Label Information

|                                      |                                                    |
|--------------------------------------|----------------------------------------------------|
| <b>Label Description:</b>            | VHF Omnidirectional Radio (VORTAC) Beacon (point)  |
| <b>Additional Labeling Criteria:</b> | N/A                                                |
| <b>Label String:</b>                 | [GA032_NSX]<br>[GA037_TAC]                         |
| <b>Characteristics:</b>              | 29,29<br>29 (Blue072, Condensed, 7 pt, Upper case) |

Symbol Sample



Symbol Information

|                                                                                                              |                                                                                                                                                                                                                                                                                      |                                  |                                    |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_VOR_DME_Beacon                                                                                                                                                                                                                                |                                  |                                    |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                    |                                  |                                    |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |                                  |                                    |
| <b>Element Name:</b> Blue072_Navaid_VOR_DME                                                                  |                                                                                                                                                                                                                                                                                      | <b>Element Reference:</b> P00216 | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Blue072 navaid vor dme                                                                   |                                                                                                                                                                                                                                                                                      |                                  |                                    |
| <b>Color Token:</b> Blue072                                                                                  | <b>Parameters:</b><br><b>Note:</b> See Element: Blue072_Navaid_VOR_DME in Annex H for detailed drawing instructions.                                                                                                                                                                 |                                  |                                    |

Symbol Portrayal Rules

| Rule Ref | Description                                        | Criteria                                                                           |
|----------|----------------------------------------------------|------------------------------------------------------------------------------------|
| R003684  | VHF Omnidirectional Radio (VOR DME) Beacon (point) | Used in conjunction with GA041 [Distance Measuring Equipment (DME)] and (HGT < 46) |

VHF\_Omnidirectional\_Radio\_(VOR)\_Beacon (GA036 - Aeronautical Data Store) (continued)

Point

Label Information

**Label Description:** VHF Omnidirectional Radio (VOR DME) Beacon (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** [GA032\_NSX]  
**Characteristics:** 29  
 29 (Blue072, Condensed, 7 pt, Upper case)

Symbol Sample



Vineyard (EA050)

Surface

Symbol Information

|                                                                                                                                     |                                                                                                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Symbol Graphic</b><br>                          | <b>Symbol Graphic Name:</b> AR_Lt-Green_Vineyard                                                                             |                                  |                                     |
|                                                                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                                            |                                  |                                     |
|                                                                                                                                     | <b>Symbol Placement Instructions:</b> The surface geometry is filled with the area pattern.                                  |                                  |                                     |
| <b>Element Name:</b> Lt-Green_VineyardHopFill                                                                                       |                                                                                                                              | <b>Element Reference:</b> A00111 | <b>Element Type:</b> Area - Pattern |
| <b>Description:</b> Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Vineyard/Hops Fill |                                                                                                                              |                                  |                                     |
| <b>Color Token:</b> Lt-Green                                                                                                        | <b>Parameters:</b><br><b>Area Pattern:</b> See Element: Lt-Green_VineyardHopFill in Annex I<br><b>Note:</b> Area Pattern #77 |                                  |                                     |

Symbol Portrayal Rules

| Rule Ref | Description                   | Criteria        |
|----------|-------------------------------|-----------------|
| R003306  | Vineyard / standard (surface) | (ARA >= 390625) |

Label Information

**Label Description:** Vineyard / named / not terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 1 [Linear] or ZI013\_FFP = 2 [Regular] or ZI013\_FFP = 4 [Intermingled Woods] or ZI013\_FFP = 5 [Intermingled Trees] or ZI013\_FFP = 6 [Treeless] or ZI013\_FFP = 7 [Trellised] or ZI013\_FFP = 8 [Irregular] or ZI013\_FFP = 999 [Other] or ZI013\_FFP = -999999 [No Information])  
**Label String:** [ZI005\_FNA]  
**Characteristics:** 3  
 3 (Black, Condensed, 6-16 pt, Mixed case)

---

**Label Description:** Vineyard / named / terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 3 [Terraced]) and (ZI005\_FNA <> "No Information")  
**Label String:** [ZI005\_FNA] "(terraces)"  
**Characteristics:** 3,4  
 3 (Black, Condensed, 6-16 pt, Mixed case)  
 4 (Black, Condensed, 6-16 pt, Lower case)

---

**Label Description:** Vineyard / unnamed / terraced (surface)  
**Additional Labeling Criteria:** (ZI013\_FFP = 3 [Terraced]) and (ZI005\_FNA = "No Information")  
**Label String:** "Terraces"  
**Characteristics:** 3  
 3 (Black, Condensed, 6-16 pt, Mixed case)

**Vineyard (EA050) (continued)**

Surface

**Symbol Sample**



**Void\_Collection\_Area (ZD020)**

Surface

**Symbol Information**

|                                                                                                                |                                                                                                                 |                                                         |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_VoidCollectionArea                                                         |                                                         |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                                         |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                                         |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210                        |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                                         |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  | <b>Dash Length:</b> 1.0mm<br><b>Dash Spacing:</b> 0.5mm |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                           |
|----------|--------------------------------------|--------------------------------------------------------------------|
| R003319  | Void Collection Area / all (surface) | (ARA >= 25000000) and (VCT = 1 [Hypsography] or VCT = 999 [Other]) |

**Label Information**

|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| <b>Label Description:</b>            | Void Collection Area / all (surface)             |
| <b>Additional Labeling Criteria:</b> | N/A                                              |
| <b>Label String:</b>                 | "DATA INCOMPLETE"                                |
| <b>Characteristics:</b>              | 40<br>40 (Black, Condensed, 6-16 pt, Upper case) |

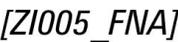
**Symbol Sample**



**Volcano (DB180)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Volcano                                                |  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                     |  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Dynamic text label only. No Graphic Parameters. |  |
| POINT LABEL ONLY                                                                                                 |                                                                                       |  |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria                                                                                         |
|----------|-------------------------|--------------------------------------------------------------------------------------------------|
| R003667  | Volcano / other (point) | (VGT = 3 [Shield] or VGT = 4 [Caldera] or VGT = 5 [Composite] or VGT = -999999 [No Information]) |

**Label Information**

**Volcano (DB180) (continued)**

Point

**DRAFT**

**Label Description:** Volcano / named (point)  
**Additional Labeling Criteria:** (ZI005\_FNA <> "No Information")

**Label String:** [ZI005\_FNA]  
**Characteristics:** 7  
 7 (Black, Condensed, Italic 7-10 pt, Mixed case)

**Label Description:** Volcano / unnamed / other (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (VGT = 3 [Shield] or VGT = 5 [Composite] or VGT = -999999 [No Information])

**Label String:** Volcano  
**Characteristics:** 7  
 7 (Black, Condensed, Italic 7-10 pt, Mixed case)

**Label Description:** Volcano / unnamed / caldera (point)  
**Additional Labeling Criteria:** (ZI005\_FNA = "No Information") and (VGT = 4 [Caldera])

**Label String:** [VGT]  
**Characteristics:** 7  
 7 (Black, Condensed, Italic 7-10 pt, Mixed case)

**Symbol Sample**

*Volcano*

*Mount Rainier*

**Symbol Information**

|                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                          | <b>Symbol Graphic Name:</b> PT_Dk-Brown1815_Volcano                                                                                                                                                                                                                                                                                                                                                |                                  |
|                                                                                                                                                                             | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                                                                                                                                                  |                                  |
|                                                                                                                                                                             | <b>Symbol Placement Instructions:</b> Origin: Center of open circle                                                                                                                                                                                                                                                                                                                                |                                  |
| <b>Element Name:</b> Dk-Brown1815_1.0mmOpenCirclewithTicks                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Element Reference:</b> P00064 |
| <b>Element Type:</b> Point - Simple                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |
| <b>Description:</b> Dk-Brown1815 1.0mm diameter open circle with alternating (1.0mm long and 0.5mm short) ticks extending out every 45 degrees all with a 0.1mm lineweight. |                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |
| <b>Color Token:</b> Dk-Brown1815                                                                                                                                            | <b>Parameters:</b><br><b>Diameter:</b> 1.0mm (circle)<br><b>Length:</b> Long Tick: 1.0mm; Short Tick: 0.5mm<br><b>Lineweight:</b> 0.1mm<br><b>Note:</b> Ticks alternate in length (short tick 0.5mm length, long tick 1.0mm length) starting with a long tick at the top, each at a 45 degree angle increment from the last. Each tick connects with the outside of the circle radiating outwards. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description            | Criteria                                  |
|----------|------------------------|-------------------------------------------|
| R003265  | Volcano / cone (point) | (VGT = 1 [Cone] or VGT = 2 [Cinder Cone]) |

**Label Information**

**Label Description:** Volcano / cone (point)  
**Additional Labeling Criteria:** N/A

**Label String:** [ZI005\_FNA]  
**Characteristics:** 7  
 7 (Black, Condensed, Italic 7-10 pt, Mixed case)

**Volcano (DB180) (continued)**

Point

**Symbol Sample**



*Pu'u ka Pele*

**Wall (AL260)**

Curve

**Symbol Information**

|                                                                                                                         |                                                                                                                                                                                                                                                                        |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
|                                        | <b>Symbol Graphic Name:</b> LN_Black_Wall                                                                                                                                                                                                                              |                                  |                                     |
|                                                                                                                         | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                      |                                  |                                     |
|                                                                                                                         | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature.                                                                                                                                                                  |                                  |                                     |
| <b>Element Name:</b> Black_Wall                                                                                         |                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00212 | <b>Element Type:</b> Line - Complex |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt) with Black 0.45mm wt 0.35mm long tick repeating along the line. |                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Line Style:</b> Black_0.15mmSolidLine<br><b>Repeating Point:</b> Black_0.45mm-0.35mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 1.0mm after that 2.0mm spacing between ticks.<br><b>Note:</b> Ticks are centered on the line. |                                  |                                     |
| <b>Element Name:</b> Black_0.15mmSolidLine                                                                              |                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt)                                                                 |                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Lineweight:</b> 0.15mm                                                                                                                                                                                                                        |                                  |                                     |
| <b>Element Name:</b> Black_0.45mm-0.35mmLenTick                                                                         |                                                                                                                                                                                                                                                                        | <b>Element Reference:</b> P00149 | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Black 0.45mm lineweight line that is 0.35mm long                                                    |                                                                                                                                                                                                                                                                        |                                  |                                     |
| <b>Color Token:</b> Black                                                                                               | <b>Parameters:</b><br><b>Orientation:</b> Based 90 degrees to line                                                                                                                                                                                                     |                                  |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description        | Criteria                              |
|----------|--------------------|---------------------------------------|
| R003099  | Wall / all (curve) | (LZN >= 3000) and (LMC = 1001 [True]) |

**Label Information**

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Wall / named (curve)                        |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | [Z1005_FNA]                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**



**Water\_Aerodrome (GB065)**

Surface

**Water\_Aerodrome (GB065) (continued)**

Surface

| Symbol Information                                                                                             |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Blue072_WaterAerodrome                                                           |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Blue072_0.1mmSolidLine                                                                    |                                                                                                                 | <b>Element Reference:</b> L00217 |
| <b>Element Type:</b> Line - Simple                                                                             |                                                                                                                 |                                  |
| <b>Description:</b> Blue072 0.1mm Solid Line (0.1mm wt)                                                        |                                                                                                                 |                                  |
| <b>Color Token:</b> Blue072                                                                                    | <b>Parameters:</b><br><b>Lineweight:</b> 0.1mm                                                                  |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                     | Criteria |
|----------|---------------------------------|----------|
| R003569  | Water Aerodrome / all (surface) | ALL      |

**Label Information**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Water Aerodrome / active (surface)                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Additional Labeling Criteria:</b> | (ASY = 1 [A - Active Civilian] or ASY = 2 [B - Active Joint (Civilian/Military)] or ASY = 3 [C - Active Military] or ASY = 4 [D - Active (with less than the minimum facilities)] or ASY = -999999 [No Information]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])<br>ZVA value is converted from meters to feet. |
| <b>Label String:</b>                 | [Z1005_FNA] "Seaplane base"<br>[ZVA]                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Characteristics:</b>              | 24,24,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case)                                                                                                                                                                                                                                                                                                                         |
| <b>Label Description:</b>            | Water Aerodrome / abandoned (surface)                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Additional Labeling Criteria:</b> | (ASY = 5 [E - Abandoned or Closed (with usable runways or landing areas)]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])<br>ZVA value is converted from meters to feet.                                                                                                                                           |
| <b>Label String:</b>                 | [Z1005_FNA] "Seaplane base"<br>"(abandoned)"<br>[ZVA]                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 24,24,26,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case)                                                                                                                                                                                                                                                                                                                      |
| <b>Label Description:</b>            | Water Aerodrome / not usable (surface)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additional Labeling Criteria:</b> | (ASY = 7 [G - Unusable for landing or take-off] or ASY = 12 [X - Decoy]) and (PCF = 2 [Intact] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed] or PCF = -999999 [No Information])<br>ZVA value is converted from meters to feet.                                                                                                                                             |
| <b>Label String:</b>                 | [Z1005_FNA] "Seaplane base"<br>"(not usable)"<br>[ZVA]                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Characteristics:</b>              | 24,24,26,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)<br>26 (Blue072, Condensed, 7 pt, Lower case)                                                                                                                                                                                                                                                                                                                      |
| <b>Label Description:</b>            | Water Aerodrome / construction (surface)                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Additional Labeling Criteria:</b> | (PCF = 1 [Construction])<br>ZVA value is converted from meters to feet.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Label String:</b>                 | [Z1005_FNA] "Seaplane base"<br>"(construction)"<br>[ZVA]                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Characteristics:</b>              | 24,24,26,26<br>24 (Blue072, Condensed, 7 pt, Mixed case)                                                                                                                                                                                                                                                                                                                                                                   |

**Water\_Aerodrome (GB065) (continued)**

Surface

26 (Blue072, Condensed, 7 pt, Lower case)

**Symbol Sample**



**Water\_Intake\_Tower (BI050)**

Point

**Symbol Information**

|                                                                                                                |                                                                                                                      |                                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_WaterIntakeTower                                                                |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                                     |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                          |                                  |
| <b>Element Name:</b> Black_WaterIntakeTower                                                                    |                                                                                                                      | <b>Element Reference:</b> P00148 |
| <b>Description:</b> Black water intake tower                                                                   |                                                                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b><br><b>Note:</b> See Element: Black_WaterIntakeTower in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                  | Criteria   |
|----------|----------------------------------------------|------------|
| R003226  | Water Intake Tower / non-obstruction (point) | (HGT < 46) |

**Symbol Sample**



**Water\_Mill (AJ055)**

Point

**Symbol Information**

|                                                                                                                  |                                                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_WaterMill                                                                |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> No                                                                              |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of the symbol                                            |                                  |
| <b>Element Name:</b> Black_WaterMill                                                                             |                                                                                                               | <b>Element Reference:</b> P00147 |
| <b>Description:</b> Black water mill                                                                             |                                                                                                               |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b><br><b>Note:</b> See Element: Black_WaterMill in Annex H for detailed drawing instructions. |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria   |
|----------|--------------------------------------|------------|
| R003447  | Water Mill / non-obstruction (point) | (HGT < 46) |

**Water\_Mill (AJ055) (continued)**

Point

Symbol Sample



**Water\_Tower (AM080)**

Point

Symbol Information

|                                                                                                                |                                                                                                               |                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_WaterTower                                                                |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> No                                                                              |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                   |                                  |
| <b>Element Name:</b> Cyan_WaterTower                                                                           |                                                                                                               | <b>Element Reference:</b> P00142 |
| <b>Description:</b> Cyan water tower                                                                           |                                                                                                               |                                  |
| <b>Color Token:</b> Cyan                                                                                       | <b>Parameters:</b><br><b>Note:</b> See Element: Cyan_Water_Tower in Annex H for detailed drawing instructions |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                           | Criteria   |
|----------|---------------------------------------|------------|
| R003119  | Water Tower / non-obstruction (point) | (HGT < 46) |

Symbol Sample



**Water\_Well (BH230)**

Point

Symbol Information

|                                                                                                                  |                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_WaterWell_Perennial                       |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                             |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of filled circle         |                                  |
| <b>Element Name:</b> Cyan_0.8mmFilledCircle                                                                      |                                                                               | <b>Element Reference:</b> P00041 |
| <b>Description:</b> Cyan 0.8mm diameter filled circle                                                            |                                                                               |                                  |
| <b>Color Token:</b> Cyan                                                                                         | <b>Parameters:</b><br><b>Diameter:</b> 0.8mm<br><b>Note:</b> Circle is filled |                                  |

Symbol Portrayal Rules

| Rule Ref | Description                    | Criteria                                                            |
|----------|--------------------------------|---------------------------------------------------------------------|
| R003275  | Water Well / perennial (point) | (ZI024_HYP = 1 [Perennial] or ZI024_HYP = -999999 [No Information]) |

Label Information

**Label Description:** Water Well / alkaline / usable (point)  
**Additional Labeling Criteria:** (ZI024\_SCC = 1 [Alkaline]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])  
**Label String:** "Alkaline"

**Water\_Well (BH230) (continued)**

**Point**

|                                                                   |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics:</b>                                           | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                          |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Water Well / salt / usable (point)<br>(ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])                                                                       |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Salt"<br>16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                                                |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Water Well / fresh / not usable (point)<br>(ZI024_SCC = 11 [Fresh] or ZI024_SCC = 998 [Not Applicable] or ZI024_SCC = -999999 [No Information]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                                    |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "(not usable)"<br>16,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                                                   |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Water Well / alkaline / not usable (point)<br>(ZI024_SCC = 1 [Alkaline]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                                                                                                           |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Alkaline"<br>"(not usable)"<br>16,23,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                                  |
| <b>Label Description:</b><br><b>Additional Labeling Criteria:</b> | Water Well / salt / not usable (point)<br>(ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b><br><b>Characteristics:</b>                   | "Salt"<br>"(not usable)"<br>16,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                                         |

**Symbol Sample**

• (not usable)

| Symbol Information                                                                                               |                                                                     |                                  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_WaterWell_IntermittentDry       |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                   |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Origin: Center of open circle |                                  |
| <b>Element Name:</b> Cyan_1.0mmCircleOpen                                                                        |                                                                     | <b>Element Reference:</b> P00040 |
| <b>Element Type:</b> Point - Simple                                                                              |                                                                     |                                  |
| <b>Description:</b> Cyan 1.0mm diameter open circle with a 0.15mm lineweight                                     |                                                                     |                                  |
| <b>Color Token:</b> Cyan                                                                                         | <b>Parameters:</b>                                                  |                                  |
|                                                                                                                  | <b>Diameter:</b> 1.0mm                                              |                                  |
|                                                                                                                  | <b>Lineweight:</b> 0.15mm                                           |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                            | Criteria                                              |
|----------|----------------------------------------|-------------------------------------------------------|
| R003276  | Water Well / intermittent, dry (point) | (ZI024_HYP = 2 [Intermittent] or ZI024_HYP = 4 [Dry]) |

**Water\_Well (BH230) (continued)**

Point

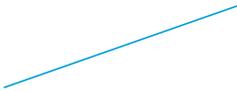
| Label Information                    |                                                                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Water Well / alkaline / usable (point)                                                                                                                                                                                                                              |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 1 [Alkaline]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])                                                                                                                                                                                 |
| <b>Label String:</b>                 | "Alkaline"                                                                                                                                                                                                                                                          |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                |
| <b>Label Description:</b>            | Water Well / salt / usable (point)                                                                                                                                                                                                                                  |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) and (PCF = 2 [Intact] or PCF = -999999 [No Information])                                                                   |
| <b>Label String:</b>                 | "Salt"                                                                                                                                                                                                                                                              |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)                                                                                                                                                                                                                |
| <b>Label Description:</b>            | Water Well / fresh / not usable (point)                                                                                                                                                                                                                             |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 11 [Fresh] or ZI024_SCC = 998 [Not Applicable] or ZI024_SCC = -999999 [No Information]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                                     |
| <b>Label String:</b>                 | "(not usable)"                                                                                                                                                                                                                                                      |
| <b>Characteristics:</b>              | 16,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                           |
| <b>Label Description:</b>            | Water Well / alkaline / not usable (point)                                                                                                                                                                                                                          |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 1 [Alkaline]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed])                                                                                                               |
| <b>Label String:</b>                 | "Alkaline"<br>"(not usable)"                                                                                                                                                                                                                                        |
| <b>Characteristics:</b>              | 16,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                           |
| <b>Label Description:</b>            | Water Well / salt / not usable (point)                                                                                                                                                                                                                              |
| <b>Additional Labeling Criteria:</b> | (ZI024_SCC = 4 [Mineral] or ZI024_SCC = 10 [Saline] or ZI024_SCC = 12 [Brackish] or ZI024_SCC = 13 [Seawater] or ZI024_SCC = 14 [Brine]) and (PCF = 1 [Construction] or PCF = 3 [Unmaintained] or PCF = 4 [Damaged] or PCF = 5 [Dismantled] or PCF = 6 [Destroyed]) |
| <b>Label String:</b>                 | "Salt"<br>"(not usable)"                                                                                                                                                                                                                                            |
| <b>Characteristics:</b>              | 16,23<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case)<br>23 (Cyan, Condensed, Italic, 6 pt, Lower case)                                                                                                                                                           |

**Symbol Sample**

o (not usable)

**Waterfall (BH180)**

Curve

| Symbol Information                                                                  |                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  | <b>Symbol Graphic Name:</b> LN_Cyan_Waterfall                                                         |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                     |
|                                                                                     | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the geometry of the feature. |

**Waterfall (BH180) (continued)**

Curve

|                                                      |                                         |                                    |
|------------------------------------------------------|-----------------------------------------|------------------------------------|
| <b>Element Name:</b> Cyan_0.2mmSolidLine             | <b>Element Reference:</b> L00015        | <b>Element Type:</b> Line - Simple |
| <b>Description:</b> Cyan 0.2mm Solid Line (0.2mm wt) |                                         |                                    |
| <b>Color Token:</b> Cyan                             | <b>Parameters:</b><br>Lineweight: 0.2mm |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003212  | Waterfall / all (curve) | ALL      |

**Label Information**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| <b>Label Description:</b>            | Waterfall / all (curve)                                 |
| <b>Additional Labeling Criteria:</b> | N/A                                                     |
| <b>Label String:</b>                 | [Z1005_FNA] "Falls"                                     |
| <b>Characteristics:</b>              | 16,16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



Point

**Symbol Information**

|                                                                                                                  |                                                                                      |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Cyan_Waterfall                                        |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                    |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> Perpendicular to drain. Origin: Center of line |

|                                                                    |                                                                                                        |                                     |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_0.2mm-1.5mmLenLine                       | <b>Element Reference:</b> P00061                                                                       | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Cyan 1.5mm length line with a 0.2mm lineweight |                                                                                                        |                                     |
| <b>Color Token:</b> Cyan                                           | <b>Parameters:</b><br>Length: 1.5mm      Lineweight: 0.2mm<br>Orientation: Centered 90 degrees to line |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description             | Criteria |
|----------|-------------------------|----------|
| R003213  | Waterfall / all (point) | ALL      |

**Label Information**

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>Label Description:</b>            | Waterfall / all (point)                              |
| <b>Additional Labeling Criteria:</b> | N/A                                                  |
| <b>Label String:</b>                 | "Falls"                                              |
| <b>Characteristics:</b>              | 16<br>16 (Cyan, Condensed, Italic, 6 pt, Mixed case) |

**Symbol Sample**



**Waterwork (BH220)**

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Waterwork                                                                  |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                           |          |
|------------------------|---------------------------|----------|
| Rule Ref               | Description               | Criteria |
| R003518                | Waterwork / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Waterwork / all (surface)                   |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Waterworks"                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |            |
|-------------------------------------------------------------------------------------|------------|
|  | Waterworks |

Point

| Symbol Information                                                                                           |                                                                       |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Waterwork                        |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                    |                                  |
|                                                                                                              | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                              | <b>Note:</b> Square is filled                                         |                                  |

| Symbol Portrayal Rules |                         |          |
|------------------------|-------------------------|----------|
| Rule Ref               | Description             | Criteria |
| R003519                | Waterwork / all (point) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Waterwork / all (point)                     |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Waterworks"                                |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Waterwork (BH220) (continued)**

Point

**Symbol Sample**

■ Waterworks

**Wind\_Farm (AD060)**

Surface

| Symbol Information                                                                                             |                                                                                                                 |                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> AR_Black_WindFarm                                                                   |                                  |
|                                                                                                                | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                                | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                     |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                             |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                                  |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                      | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                                | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                                |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                           |          |
|------------------------|---------------------------|----------|
| Rule Ref               | Description               | Criteria |
| R003514                | Wind Farm / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Wind Farm / all (surface)                   |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Wind farm"                                 |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

**Symbol Sample**

 Wind farm

Point

| Symbol Information                                                                                               |                                                                                                                                          |                                  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br><br> | <b>Symbol Graphic Name:</b> PT_Black_WindFarm                                                                                            |                                  |
|                                                                                                                  | <b>Apply Label to Symbol:</b> Yes                                                                                                        |                                  |
|                                                                                                                  | <b>Symbol Placement Instructions:</b> The point symbol is placed on the centroid of the surface feature. Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                     |                                                                                                                                          | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                              |                                                                                                                                          |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                     |                                                                                                                                          |                                  |
| <b>Color Token:</b> Black                                                                                        | <b>Parameters:</b>                                                                                                                       |                                  |
|                                                                                                                  | <b>Length:</b> 0.8mm                                                                                                                     |                                  |
|                                                                                                                  | <b>Note:</b> Square is filled                                                                                                            |                                  |

| Symbol Portrayal Rules |                         |          |
|------------------------|-------------------------|----------|
| Rule Ref               | Description             | Criteria |
| R003515                | Wind Farm / all (point) | ALL      |

**Wind\_Farm (AD060) (continued)**

Point

**Label Information**

**Label Description:** Wind Farm / all (point)  
**Additional Labeling Criteria:** N/A  
**Label String:** "Wind farm"  
**Characteristics:** 1  
 1 (Black, Condensed, 6 pt, Mixed case)

**Symbol Sample**

■ Wind farm

**Wind\_Turbine (AJ051)**

Point

**Symbol Information**

|                                                                                   |                                                                                                                |                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_Windturbine_OnShore                                                       |                                  |
|                                                                                   | <b>Apply Label to Symbol:</b> No                                                                               |                                  |
|                                                                                   | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                    |                                  |
| <b>Element Name:</b> Black_WindTurbine                                            |                                                                                                                | <b>Element Reference:</b> P00143 |
| <b>Description:</b> Black wind turbine                                            |                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                         | <b>Parameters:</b><br><b>Note:</b> See Element: Black_WindTurbine in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                                       | Criteria                                                                                      |
|----------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|
| R003054  | Wind Turbine / on shore / non-obstruction (point) | (HGT < 46) and (SRL = 2 [Inland] or SRL = 3 [At Shoreline] or SRL = -999999 [No Information]) |

**Symbol Sample**

†

**Symbol Information**

|                                                                                     |                                                                                                                |                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------|
|  | <b>Symbol Graphic Name:</b> PT_Black_WindTurbine_Offshore                                                      |                                  |
|                                                                                     | <b>Apply Label to Symbol:</b> Yes                                                                              |                                  |
|                                                                                     | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                                    |                                  |
| <b>Element Name:</b> Black_Offshore_VO                                              |                                                                                                                | <b>Element Reference:</b> P00161 |
| <b>Description:</b> Black vertical obstruction                                      |                                                                                                                |                                  |
| <b>Color Token:</b> Black                                                           | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Offshore_VO in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description | Criteria |
|----------|-------------|----------|
|----------|-------------|----------|

**Wind\_Turbine (AJ051) (continued)**

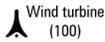
Point

R003644 Wind Turbine / offshore / non-obstruction (point) (HGT < 46) and (SRL = 1 [Offshore])

**Label Information**

**Label Description:** Wind Turbine / non-obstruction (point)  
**Additional Labeling Criteria:** HGT value is converted from meters to feet.  
**Label String:** "Wind turbine"  
 "[HGT]"  
**Characteristics:** 1,22,22,22  
 1 (Black, Condensed, 6 pt, Mixed case)  
 22 (Black, Condensed, 6 pt, Lower case)

**Symbol Sample**



**Windmill (AJ050)**

Point

**Symbol Information**

|                                                                                                            |                                                                                                      |                                  |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Windmill                                                        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> No                                                                     |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> Origin: Center of dot                                          |                                  |
| <b>Element Name:</b> Black_Windmill                                                                        |                                                                                                      | <b>Element Reference:</b> P00144 |
| <b>Description:</b> Black windmill                                                                         |                                                                                                      |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b><br>Note: See Element: Black_Windmill in Annex H for detailed drawing instructions |                                  |

**Symbol Portrayal Rules**

| Rule Ref | Description                        | Criteria   |
|----------|------------------------------------|------------|
| R003049  | Windmill / non-obstruction (point) | (HGT < 46) |

**Symbol Sample**



**Wireless\_Telecommunication\_Information (ZI018 - Aeronautical Data Store)**

Point

**Symbol Information**

|                                                                                                              |                                                                                                                                                                                                                                                                            |  |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Blue072_WirelessTelecomInfo                                                                                                                                                                                                                 |  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                                                                                                                                                                                                                          |  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of dot. A box (Blue072 solid line 0.3mm wt) with a minimum length of 11.0mm and minimum width of 4.0mm is placed around the label string and attached to the symbol with a leader line (Blue072 solid line 0.3mm wt). |  |

**Wireless\_Telecommunication\_Information (ZI018 - Aeronautical Data Store) (continued)**

Point

|                                                                                                                                               |                                                                                                                                                        |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Blue072_Navaid_Other                                                                                                     | <b>Element Reference:</b> P00212                                                                                                                       | <b>Element Type:</b> Point - Simple |
| <b>Description:</b> Blue072 1.9mm diameter open circle with a 0.3mm linewidth and a Blue072 filled 0.4mm diameter filled circle in the center |                                                                                                                                                        |                                     |
| <b>Color Token:</b> Blue072                                                                                                                   | <b>Parameters:</b><br><b>Diameter:</b> 1.9mm<br><b>Lineweight:</b> 0.3mm<br><b>Note:</b> 0.4mm diameter filled circle in the center of the open circle |                                     |

**Symbol Portrayal Rules**

| Rule Ref | Description                                                     | Criteria                                   |
|----------|-----------------------------------------------------------------|--------------------------------------------|
| R003687  | Wireless Telecommunicaton Information / non-obstruction (point) | (HGT < 46) and (WIT = 4 [Radio Broadcast]) |

**Label Information**

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Label Description:</b>            | Wireless Telecommunicaton Information / all (point)                                             |
| <b>Additional Labeling Criteria:</b> | N/A                                                                                             |
| <b>Label String:</b>                 | [ZI005_FNA]<br>[BRF]                                                                            |
| <b>Characteristics:</b>              | 29,26<br>29 (Blue072, Condensed, 7 pt, Upper case)<br>26 (Blue072, Condensed, 7 pt, Lower case) |

**Symbol Sample**



**Wreck (BD180 - Maritime Data Store)**

Point

**Symbol Information**

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Wreck                          |
|                           | <b>Apply Label to Symbol:</b> No                                    |
|                           | <b>Symbol Placement Instructions:</b> Origin: Center of open circle |

|                                  |                                                                                                          |                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Element Name:</b> Black_Wreck | <b>Element Reference:</b> P00206                                                                         | <b>Element Type:</b> Point - Shape |
| <b>Description:</b> Black wreck  |                                                                                                          |                                    |
| <b>Color Token:</b> Black        | <b>Parameters:</b><br><b>Note:</b> See Element: Black_Wreck in Annex H for detailed drawing instructions |                                    |

**Symbol Portrayal Rules**

| Rule Ref | Description                          | Criteria                                                                                                                                                                                                                                                 |
|----------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R003659  | Wreck / not always submerged (point) | (ZI025_WLE = 1 [Partly Submerged] or ZI025_WLE = 2 [Always Dry] or ZI025_WLE = 4 [Covers and Uncovers] or ZI025_WLE = 5 [Awash at Low Water] or ZI025_WLE = 9 [Awash at Chart Datum] or ZI025_WLE = 999 [Other] or ZI025_WLE = -999999 [No Information]) |

**Symbol Sample**



**Zoo (AK180)**

Surface

Zoo (AK180) (continued)

Surface

| Symbol Information                                                                                         |                                                                                                                 |                                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> AR_Black_Zoo                                                                        |                                  |
|                                                                                                            | <b>Apply Label to Symbol:</b> Yes                                                                               |                                  |
|                                                                                                            | <b>Symbol Placement Instructions:</b> The linear symbology is applied to the perimeter of the surface geometry. |                                  |
| <b>Element Name:</b> Black_0.1mm-1.0mmLenDash-0.5mmGapLine                                                 |                                                                                                                 | <b>Element Reference:</b> L00210 |
| <b>Element Type:</b> Line - Styled                                                                         |                                                                                                                 |                                  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)                              |                                                                                                                 |                                  |
| <b>Color Token:</b> Black                                                                                  | <b>Parameters:</b>                                                                                              |                                  |
|                                                                                                            | <b>Lineweight:</b> 0.1mm                                                                                        | <b>Dash Length:</b> 1.0mm        |
|                                                                                                            |                                                                                                                 | <b>Dash Spacing:</b> 0.5mm       |

| Symbol Portrayal Rules |                     |          |
|------------------------|---------------------|----------|
| Rule Ref               | Description         | Criteria |
| R003065                | Zoo / all (surface) | ALL      |

| Label Information                    |                                             |
|--------------------------------------|---------------------------------------------|
| <b>Label Description:</b>            | Zoo / all (surface)                         |
| <b>Additional Labeling Criteria:</b> | N/A                                         |
| <b>Label String:</b>                 | "Zoo"                                       |
| <b>Characteristics:</b>              | 1<br>1 (Black, Condensed, 6 pt, Mixed case) |

| Symbol Sample                                                                       |  |
|-------------------------------------------------------------------------------------|--|
|  |  |

Point

| Symbol Information                                                                                           |                                                                       |                                  |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|
| <b>Symbol Graphic</b><br> | <b>Symbol Graphic Name:</b> PT_Black_Zoo                              |                                  |
|                                                                                                              | <b>Apply Label to Symbol:</b> Yes                                     |                                  |
|                                                                                                              | <b>Symbol Placement Instructions:</b> Origin: Center of filled square |                                  |
| <b>Element Name:</b> Black_0.8mmFilledSquare                                                                 |                                                                       | <b>Element Reference:</b> P00006 |
| <b>Element Type:</b> Point - Simple                                                                          |                                                                       |                                  |
| <b>Description:</b> Black filled square with all sides 0.8mm                                                 |                                                                       |                                  |
| <b>Color Token:</b> Black                                                                                    | <b>Parameters:</b>                                                    |                                  |
|                                                                                                              | <b>Length:</b> 0.8mm                                                  |                                  |
|                                                                                                              | <b>Note:</b> Square is filled                                         |                                  |

| Symbol Portrayal Rules |                   |          |
|------------------------|-------------------|----------|
| Rule Ref               | Description       | Criteria |
| R003511                | Zoo / all (point) | ALL      |

| Label Information                    |                   |
|--------------------------------------|-------------------|
| <b>Label Description:</b>            | Zoo / all (point) |
| <b>Additional Labeling Criteria:</b> | N/A               |
| <b>Label String:</b>                 | "Zoo"             |
| <b>Characteristics:</b>              | 1                 |

**Zoo (AK180) (continued)**

Point

1 (Black, Condensed, 6 pt, Mixed case)

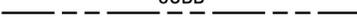
**Symbol Sample**

■ Zoo

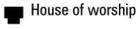
## **Annex B – Symbol Quick Reference Guide**

### **Symbol Quick Reference Guide**

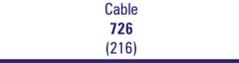
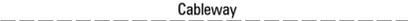
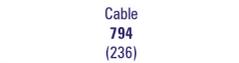
Symbol graphics in this Annex are examples only and may not show every instance of potential labeling. Representative labels are shown only for those symbols which always require labeling. Some symbols may require varying descriptive labels based on attribution (i.e. "Gas" or "Oil" for the PPO attribute on Non-Water Well), and/or proper names when available. See Annex A for specific portrayal and labeling rules.

| Description                                           | Feature code | Symbol                                                                                                                                        | Page   |
|-------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Administrative Boundary / international (curve)       | FA000        | <b>CANADA</b><br><br><b>UNITED STATES OF AMERICA</b>        | A - 2  |
| Administrative Boundary / other (curve)               | FA000        | <b>LEBANON DEMARCATION LINE</b><br><br><b>ISRAEL</b>        | A - 3  |
| Administrative Boundary / armistice line (curve)      | FA000        | <b>NORTH KOREA ARMISTICE LINE</b><br><br><b>SOUTH KOREA</b> | A - 4  |
| Administrative Boundary / cease-fire (curve)          | FA000        | <b>CEASE-FIRE LINE</b><br>                                  | A - 5  |
| Administrative Boundary / no defined boundary (curve) | FA000        | PAKISTAN<br>NO DEFINED BOUNDARY<br>INDIA                                                                                                      | A - 5  |
| Administrative Division / primary (surface)           | FA003        | NORTHERN TERRITORY<br>SOUTHERN TERRITORY<br>                | A - 6  |
| Administrative Division / secondary (surface)         | FA003        | COBB<br>FULTON<br>                                          | A - 6  |
| Administrative Division / tertiary (surface)          | FA003        | HARRISON<br>CONCORD<br>                                     | A - 7  |
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| Aerodrome Beacon / all (point)                        | GB013        | ★ FL                                                                                                                                          | A - 9  |
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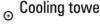
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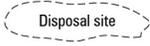
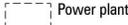
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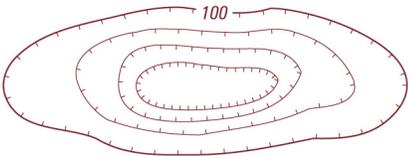
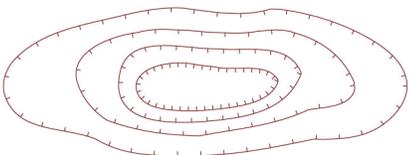
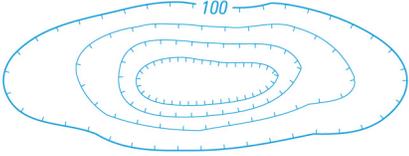
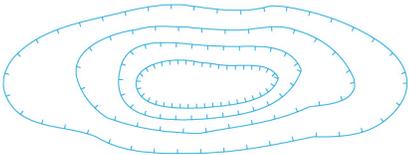
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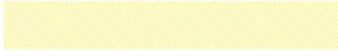
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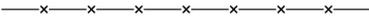
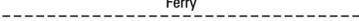
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| Cemetery / unknown or other (point)     | AL030        | Ⓜ                  | A - 76 |
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| Elevation Contour / land / index approximate (curve)           | CA010        |   | A - 102 |
| Elevation Contour / land / intermediate (curve)                | CA010        |   | A - 103 |
| Elevation Contour / land / intermediate approximate (curve)    | CA010        |   | A - 104 |
| Elevation Contour / land / half auxiliary (curve)              | CA010        |   | A - 105 |
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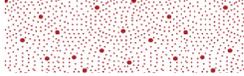
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| Elevation Tint Band / tint #2 (surface)                               | No Code      |                      | A - 122 |
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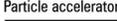
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| Fairground / small area landmark (surface)      | AK090        |  Fairgrounds          | A - 146 |
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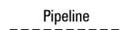
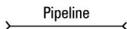
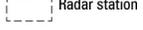
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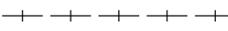
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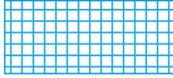
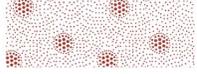
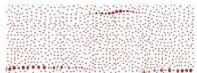
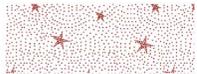
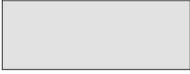
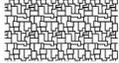
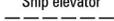
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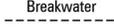
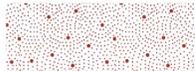
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| Railway / usable / narrow / non-electric / multiple (curve)                            | AN010        |        | A - 236 |
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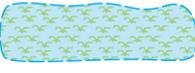
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| Railway / construction, not usable / carline (curve)                                  | AN010        |    | A - 252 |
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| Road / usable / street / not through route (curve)                                | AP030        |  | A - 279 |
| Road / wide median / not usable / all weather / hard surface / multiple (curve)   | AP030        |  | A - 280 |
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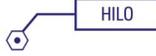
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| Road / not usable / fair-weather / unimproved (curve)                          | AP030        |    | A - 291 |
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| Shoreline Construction / not dry (curve)                  | BB081        |  Breakwater       | A - 315 |
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| Storage Depot / all (point)                                | AM010        | ■ Storage depot                                                                                   | A - 331 |
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| Swamp / mangrove (surface)                                 | ED020        |              | A - 335 |
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| Tower / obstruction / single (point)                           | AL241        |                  | A - 339 |
| Tower / obstruction / multiple (point)                         | AT045        |                  | A - 340 |
| Trail / all (curve)                                            | AP050        | -----                                                                                               | A - 341 |
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| Training Site / all (point)                                    | FA165        | ■ Training site                                                                                     | A - 342 |
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| Transportation Station / railway / usable (point)              | AQ125        | ■                                                                                                   | A - 345 |
| Tundra / all (surface)                                         | BJ110        | <i>TUNDRA</i>                                                                                       | A - 345 |
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| Tunnel / pedestrian, railway, road and railway (curve)         | AQ130        |                | A - 347 |
| Tunnel / pedestrian, railway, road and railway / small (curve) | AQ130        |  Tunnel        | A - 348 |
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| Tunnel / aqueduct, canal, inland waterway (curve)              | AQ130        |  Tunnel        | A - 350 |
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| Vanishing Point / disappearing (point)                         | BH145        | ●                                                                                                   | A - 352 |

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| Vertical Obstruction / single (point)              | No Code      |    | A - 353 |
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| VHF Omnidirectional Radio (VORTAC) Beacon (point)  | GA036        |    | A - 355 |
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| Vineyard / standard (surface)                      | EA050        |    | A - 356 |
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| Volcano / other (point)                            | DB180        | <i>Volcano</i>                                                                        | A - 357 |
| Volcano / cone (point)                             | DB180        |  | A - 358 |
| Wall / all (curve)                                 | AL260        |   | A - 359 |
| Water Aerodrome / all (surface)                    | GB065        |  | A - 360 |
| Water Intake Tower / non-obstruction (point)       | BI050        |  | A - 361 |
| Water Mill / non-obstruction (point)               | AJ055        |  | A - 361 |
| Water Tower / non-obstruction (point)              | AM080        |  | A - 362 |
| Water Well / perennial (point)                     | BH230        |  | A - 362 |
| Water Well / intermittent, dry (point)             | BH230        |  | A - 363 |
| Waterfall / all (curve)                            | BH180        |  | A - 364 |

| Description                                                     | Feature code | Symbol                                                                                                    | Page    |
|-----------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------|---------|
| Waterfall / all (point)                                         | BH180        |  Falls                 | A - 365 |
| Waterwork / all (surface)                                       | BH220        |  Waterworks            | A - 366 |
| Waterwork / all (point)                                         | BH220        |  Waterworks            | A - 366 |
| Wind Farm / all (surface)                                       | AD060        |  Wind farm             | A - 367 |
| Wind Farm / all (point)                                         | AD060        |  Wind farm             | A - 367 |
| Wind Turbine / on shore / non-obstruction (point)               | AJ051        |                        | A - 368 |
| Wind Turbine / offshore / non-obstruction (point)               | AJ051        |  Wind turbine<br>(100) | A - 368 |
| Windmill / non-obstruction (point)                              | AJ050        |                        | A - 369 |
| Wireless Telecommunicaton Information / non-obstruction (point) | ZI018        |                       | A - 369 |
| Wreck / not always submerged (point)                            | BD180        |                      | A - 370 |
| Zoo / all (surface)                                             | AK180        |  Zoo                 | A - 371 |
| Zoo / all (point)                                               | AK180        |  Zoo                 | A - 371 |

## Annex C – Color

### Color

This Annex provides a mapping from a specific color token to Pantone color names, the MIL-STD-2402 based SPC Ink colors, CMYK and RGB values. This mapping allows considerable flexibility in specifying equivalent colors in a variety of methodologies. The color token name provides a link to Annexes A and C.

The Pantone Colors are normative/required, but the CMYK and RGB values in the color tables are informative and may be altered as necessary by the various vendors/implementers.

The colors specified in each row of the table are approximately equivalent. For lithographic printing, the Pantone or SPC inks are normative because they provide the best consistency. CYMK colors are provided as an alternative, but red and blue/green light readability cannot be assured when using process printing. RGB is provided for digital display of symbols, but color consistency on a digital display cannot be assured because monitors may be calibrated differently or have different parameter settings.

| <u>Color Token</u>        | <u>Description</u>    | <u>Pantone Ink Number</u> | <u>C</u> | <u>M</u> | <u>Y</u> | <u>K</u> | <u>R</u> | <u>G</u> | <u>B</u> | <u>SPC #</u>  |
|---------------------------|-----------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|---------------|
| Black                     | Black                 | Process Black U           | 0        | 0        | 0        | 100      | 0        | 0        | 0        | 58600         |
| Black-12                  | Black12%              | Process Black U           | 0        | 0        | 0        | 12       | 224      | 224      | 224      | 58600         |
| Black-31                  | Black31%              | Process Black U           | 0        | 0        | 0        | 31       | 186      | 188      | 190      | 58600         |
| Blue072                   | Blue                  | Blue 072 U                | 75       | 70       | 1        | 0        | 65       | 77       | 252      | 46351         |
| Blue072-31                | Blue31%               | Blue072 U                 | 23       | 22       | 0        | 0        | 196      | 199      | 255      | 46351         |
| Blue072-54                | Blue54%               | Blue072 U                 | 40       | 38       | 1        | 0        | 153      | 158      | 252      | 46351         |
| Cyan                      | Cyan                  | Process Cyan U            | 100      | 0        | 0        | 0        | 0        | 255      | 255      | 48253         |
| Cyan-4                    | Cyan4%                | Process Cyan U            | 4        | 0        | 0        | 0        | 245      | 255      | 255      | 48253         |
| Cyan-31                   | Cyan31%               | Process Cyan U            | 31       | 0        | 0        | 0        | 176      | 255      | 255      | 48253         |
| Cyan-31_Black-12          | Cyan31% Black12%      | Process Cyan U / Black U  | 8        | 1        | 0        | 14       | 201      | 213      | 221      | 48253 / 58600 |
| Lt-Green                  | Cyan31% Yellow79%     | Process Cyan U / Yellow U | 31       | 0        | 79       | 0        | 176      | 255      | 54       | 48253 / 57377 |
| Dk-Brown1815              | Dark Brown            | 1815 U                    | 40       | 100      | 100      | 0        | 153      | 0        | 0        | 61121         |
| Dk-Brown1815-42           | Dark Brown42%         | 1815 U                    | 17       | 42       | 42       | 0        | 212      | 148      | 148      | 61121         |
| Dk-Brown1815-54           | Dark Brown54%         | 1815 U                    | 22       | 54       | 54       | 0        | 200      | 117      | 117      | 61121         |
| Dk-Brown1815-21_Yellow-42 | Dk-Brown21% Yellow42% | 1815 U / Process Yellow U | 8        | 21       | 63       | 0        | 235      | 201      | 94       | 61121 / 57377 |
| Paper-White               | Paper White           | None                      | 0        | 0        | 0        | 0        | 255      | 255      | 255      | 0             |
| Yellow-42                 | Yellow42%             | Process Yellow U          | 0        | 0        | 42       | 0        | 255      | 242      | 0        | 57377         |

## **Annex D – Text Characteristics (normative)**

### **Text Characteristics**

The Text Characteristics associated with the label information provided in Annex A is detailed in this Annex. The Characteristic ID provides the link to Annex A Label Information. The Color token name provides the link to Annex C Color information.

## Text Characteristics

| Text Characteristic # | Color Token  | Font Style      | Bold        | Italic        | Font Size | Case       | Sample usage(s)                                  |
|-----------------------|--------------|-----------------|-------------|---------------|-----------|------------|--------------------------------------------------|
| 1                     | Black        | Condensed       |             |               | 6         | Mixed case | point features (descriptive), pass               |
| 3                     | Black        | Condensed       |             |               | 6-16      | Mixed case | forest, vegetation                               |
| 4                     | Black        | Condensed       |             |               | 6-16      | Lower case | forest, vegetation                               |
| 5                     | Black        | Condensed       |             | <i>Italic</i> | 6         | Mixed case | rock, man made features                          |
| 6                     | Black        | Condensed       |             | <i>Italic</i> | 6-10      | Mixed case | crevice, small island, reef (curve)              |
| 7                     | Black        | Condensed       |             | <i>Italic</i> | 7-10      | Mixed case | sand dunes, volcano (large)                      |
| 10                    | Black        | Light Condensed |             | <i>Italic</i> | 6         | Mixed case | trail, RR turntable                              |
| 11                    | Black        | Condensed       | <b>Bold</b> |               | 10        | Lower case | land spot elev critical                          |
| 12                    | Black        | Regular         |             | <i>Italic</i> | 10-16     | Upper case | large island, reef (surface)                     |
| 14                    | Cyan         | Condensed       |             |               | 6         | Mixed case | pipeline, tunnel (water)                         |
| 15                    | Blue072      | Condensed       |             |               | 6         | Mixed case | vo                                               |
| 16                    | Cyan         | Condensed       |             | <i>Italic</i> | 6         | Mixed case | named water features (blue)                      |
| 19                    | Cyan         | Condensed       |             | <i>Italic</i> | 7         | Lower case | snow contour                                     |
| 20                    | Dk-Brown1815 | Condensed       |             | <i>Italic</i> | 7         | Lower case | land contour                                     |
| 21                    | Black        | Condensed       |             |               | 8         | Upper case | administrative                                   |
| 22                    | Black        | Condensed       |             |               | 6         | Lower case | point feature descriptive                        |
| 23                    | Cyan         | Condensed       |             | <i>Italic</i> | 6         | Lower case | water features (descriptive)                     |
| 24                    | Blue072      | Condensed       |             |               | 7         | Mixed case | aero blue, heliport                              |
| 25                    | Black        | Regular         |             |               | 8         | Lower case | control pt                                       |
| 26                    | Blue072      | Condensed       |             |               | 7         | Lower case | aero blue, heliport,channel                      |
| 27                    | Black        | Light Condensed |             | <i>Italic</i> | 6         | Upper case | RR, road                                         |
| 28                    | Black        | Light Condensed |             | <i>Italic</i> | 6         | Lower case | trail, RR (gauges, turntable & yard) descriptive |
| 29                    | Blue072      | Condensed       |             |               | 7         | Upper case | aero blue, airfield, nav aids                    |
| 30                    | Cyan         | Regular         |             |               | 8         | Lower case | snow, water spot elev normal                     |
| 31                    | Cyan         | Condensed       | <b>Bold</b> |               | 10        | Lower case | ice cap, polar ice, critical/highest snow spot   |
| 33                    | Cyan         | Condensed       |             | <i>Italic</i> | 7-16      | Lower case | inland water descriptive                         |
| 35                    | Black        | Condensed       |             | <i>Italic</i> | 6         | Lower case | inland water descriptive (man-made)              |
| 37                    | Cyan         | Condensed       |             | <i>Italic</i> | 7-16      | Upper case | river & inland water (surface)                   |
| 38                    | Cyan         | Condensed       |             | <i>Italic</i> | 6-16      | Mixed case | other water areas                                |
| 39                    | Black        | Condensed       |             | <i>Italic</i> | 7-16      | Upper case | tundra                                           |
| 40                    | Black        | Condensed       |             |               | 6-16      | Upper case | data incomplete                                  |
| 41                    | Black        | Condensed       |             |               | 6-12      | Mixed case | shanty town                                      |
| 42                    | Black        | Condensed       |             |               | 8         | Mixed case | bua 5th class                                    |
| 45                    | Black        | Light Condensed |             |               | 6-16      | Upper case | named location                                   |
| 46                    | Blue072      | Condensed       | <b>Bold</b> |               | 6         | Lower case | vo (ZVH)                                         |

| Text Characteristic # | Color Token  | Font Style | Bold        | Italic        | Font Size | Case       | Sample usage(s)                             |
|-----------------------|--------------|------------|-------------|---------------|-----------|------------|---------------------------------------------|
| 47                    | Black        | Condensed  | <b>Bold</b> |               | 14        | Upper case | bua 1st class                               |
| 48                    | Black        | Condensed  | <b>Bold</b> |               | 10        | Upper case | administrative boundary, bua 1st class      |
| 49                    | Black        | Condensed  | <b>Bold</b> |               | 10        | Mixed case | bua 3rd class                               |
| 50                    | Black        | Condensed  |             |               | 10        | Mixed case | bua 4th class                               |
| 57                    | Cyan         | Condensed  |             | <i>Italic</i> | 7-10      | Mixed case | tidal water (small)                         |
| 58                    | Cyan         | Condensed  |             | <i>Italic</i> | 7-9       | Mixed case | river (curve)                               |
| 59                    | Cyan         | Condensed  |             | <i>Italic</i> | 8-18      | Upper case | tidal water (large)                         |
| 62                    | Blue072      | Condensed  | <b>Bold</b> |               | 7         | Lower case | vo normal (HGT), runway elev & soft surface |
| 66                    | Blue072      | Condensed  |             |               | 8         | Lower case | runway length & unk surface                 |
| 68                    | Blue072      | Condensed  | <b>Bold</b> |               | 7-30      | Upper case | SUAS, MOA                                   |
| 70                    | Blue072      | Regular    | <b>Bold</b> | <i>Italic</i> | 12        | Upper case | isogonic lines                              |
| 90                    | Cyan         | Condensed  |             | <i>Italic</i> | 7         | Upper case | snow contour                                |
| 92                    | Dk-Brown1815 | Condensed  |             | <i>Italic</i> | 7         | Upper case | land contour                                |
| 95                    | Blue072      | Condensed  |             |               | 6         | Lower case | vo (HGT)                                    |
| 96                    | Cyan         | Condensed  | <b>Bold</b> |               | 10        | Mixed case | ice cap, polar ice                          |
| 97                    | Black        | Condensed  | <b>Bold</b> |               | 8         | Lower case | land spot elev normal                       |
| 98                    | Black        | Condensed  | <b>Bold</b> |               | 12        | Lower case | land spot elev highest                      |
| 99                    | Blue072      | Condensed  | <b>Bold</b> |               | 7-20      | Upper case | ADIZ                                        |
| 100                   | Blue072      | Condensed  | <b>Bold</b> | <i>Italic</i> | 7-10      | Upper case | buffer zone                                 |
| 101                   | Cyan         | Condensed  | <b>Bold</b> |               | 12        | Lower case | snow spot elev highest                      |
| 102                   | Cyan         | Condensed  | <b>Bold</b> |               | 8         | Lower case | snow spot elev normal                       |

## **Annex E – Surface Elements**

### **Surface Elements**

Each of the Surface elements used in Annex A – RTDS Symbols have been listed only one time in this Annex.

**Surface Elements**

**Area - Complex**

**A00113**

|                                                                                                               |                   |                                                 |                      |
|---------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------|----------------------|
| <b>Element Name:</b> Lt-Green_Swamp                                                                           |                   | <b>Color Token:</b> Lt-Green                    |                      |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_ScatteredTreesFill (area pattern) |                   |                                                 |                      |
| <b>Note:</b> The two area fills are combined as one symbol                                                    |                   |                                                 |                      |
| <b>Area Pattern 1:</b>                                                                                        | Reference: A00007 | <b>Area Pattern 2:</b> Green_ScatteredTreesFill | Reference: A00107    |
| Name: Cyan-31_ScreenFill                                                                                      | Type: Area - Fill | Name: Green_ScatteredTreesFill                  | Type: Area - Pattern |

**A00114**

|                                                                                                         |                   |                                           |                      |
|---------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|----------------------|
| <b>Element Name:</b> Lt-Green_NipaPalm                                                                  |                   | <b>Color Token:</b> Lt-Green              |                      |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_NipaPalmFill (area pattern) |                   |                                           |                      |
| <b>Note:</b> The two area fills are combined as one symbol                                              |                   |                                           |                      |
| <b>Area Pattern 1:</b>                                                                                  | Reference: A00007 | <b>Area Pattern 2:</b> Green_NipaPalmFill | Reference: A00108    |
| Name: Cyan-31_ScreenFill                                                                                | Type: Area - Fill | Name: Green_NipaPalmFill                  | Type: Area - Pattern |

**A00116**

|                                                                                                         |                   |                                           |                      |
|---------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|----------------------|
| <b>Element Name:</b> Lt-Green_Mangrove                                                                  |                   | <b>Color Token:</b> Lt-Green              |                      |
| <b>Description:</b> Cyan-31_ScreenFill (area fill) coincident with Lt-Green_MangroveFill (area pattern) |                   |                                           |                      |
| <b>Note:</b> The two area fills are combined as one symbol                                              |                   |                                           |                      |
| <b>Area Pattern 1:</b>                                                                                  | Reference: A00007 | <b>Area Pattern 2:</b> Green_MangroveFill | Reference: A00115    |
| Name: Cyan-31_ScreenFill                                                                                | Type: Area - Fill | Name: Green_MangroveFill                  | Type: Area - Pattern |

## Area - Fill

## A00003

|                                                                                   |                                     |                                       |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|
| <b><u>Element Name:</u></b> Black-12_ScreenFill                                   | <b><u>Color Token:</u></b> Black-12 | <b><u>Screen :</u></b> 45 degrees 12% |
| <b><u>Description:</u></b> Black-12 Area Fill (Black 12% screen, 45 degree angle) |                                     |                                       |

## A00005

|                                                                                                 |                                            |                                       |
|-------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|
| <b><u>Element Name:</u></b> Dk-Brown1815-42_ScreenFill                                          | <b><u>Color Token:</u></b> Dk-Brown1815-42 | <b><u>Screen :</u></b> 45 degrees 54% |
| <b><u>Description:</u></b> Dk-Brown1815-42 Area Fill (Dk-Brown1815 42% screen, 45 degree angle) |                                            |                                       |

## A00006

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| <b><u>Element Name:</u></b> Black_SolidAreaFill | <b><u>Color Token:</u></b> Black |
| <b><u>Description:</u></b> Black Solid Fill     |                                  |
| <b><u>Note:</u></b> Solid Fill                  |                                  |

## A00007

|                                                                                            |                                    |                                       |
|--------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------|
| <b><u>Element Name:</u></b> Cyan-31_ScreenFill                                             | <b><u>Color Token:</u></b> Cyan-31 | <b><u>Screen :</u></b> 45 degrees 31% |
| <b><u>Description:</u></b> Cyan-31_ScreenFill area fill (Cyan 31% screen, 45 degree angle) |                                    |                                       |

## A00008

|                                                                               |                                   |                                      |
|-------------------------------------------------------------------------------|-----------------------------------|--------------------------------------|
| <b><u>Element Name:</u></b> Cyan-4_ScreenFill                                 | <b><u>Color Token:</u></b> Cyan-4 | <b><u>Screen :</u></b> 45 degrees 4% |
| <b><u>Description:</u></b> Cyan-4 area fill (Cyan 4% screen, 45 degree angle) |                                   |                                      |

## A00046

|                                                   |                                        |
|---------------------------------------------------|----------------------------------------|
| <b><u>Element Name:</u></b> Paper-White_Fill      | <b><u>Color Token:</u></b> Paper-White |
| <b><u>Description:</u></b> Paper-White Solid Fill |                                        |
| <b><u>Note:</u></b> Solid Fill                    |                                        |

## A00049

|                                                                                                                    |                                             |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b><u>Element Name:</u></b> CoversUncovers-Fill                                                                    | <b><u>Color Token:</u></b> Cyan-31_Black-12 |
| <b><u>Description:</u></b> Cyan-31 ScreenFill (Area Fill) coincident with Black-12 ScreenFill-15degree (Area Fill) |                                             |
| <b><u>Note:</u></b> The two area fills are combined as one symbol                                                  |                                             |

**A00106**

**Element Name:** Lt-Green\_ScreenedAreaFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Screened Fill  
**Note:** Two colors are combined together to make one color tint

**A00118**

**Element Name:** ElevationTintBand\_2 **Color Token:** Yellow-42  
**Description:** Tint Band 2 (Line Pattern 15 (LP-15) 35% coverage, 40L, 45 degree angle lines; Yellow 42% 75 degree angle screen)  
**Note:** Line Pattern #15

**A00119**

**Element Name:** ElevationTintBand\_3 **Color Token:** Yellow-42  
**Description:** Tint Band 3 (Line Pattern 12 (LP-12) 67% coverage, 60L, 135 degree angle lines ; Yellow 42% 75 degree angle screen)  
**Note:** Line Pattern #12

**A00120**

**Element Name:** ElevationTintBand\_4 **Color Token:** Yellow-42 **Screen :** 75 degrees 42%  
**Description:** Tint Band 4 (Yellow 42% 75 degree angle screen)

**A00121**

**Element Name:** ElevationTintBand\_5 **Color Token:** Dk-Brown1815-21\_  
**Description:** Tint Band 5 (Line Pattern 15 (LP-15) 35% coverage, 40L, 45 degree angle lines; Dk-Brown 21% 75 degree angle screen coincident with Yellow 42% 15 degree angle screen)  
**Note:** Two colors are combined together to make one color tint of Line Pattern #15

**A00122**

**Element Name:** ElevationTintBand\_6 **Color Token:** Dk-Brown1815-21\_  
**Description:** Tint Band 6 (Line Pattern 5 (LP-5) 46% coverage, 60L, 45 degree angle lines; Dk-Brown 21% 75 degree angle screen coincident with Yellow 42% 15 degree angle screen)  
**Note:** Two colors are combined together to make one color tint of Line Pattern #5

**A00123**

**Element Name:** Blue072-54\_ScreenFill **Color Token:** Blue072-54 **Screen :** 90 degrees 54%  
**Description:** Blue072-54 Area Fill (Blue072 54% screen, 90 degree angle)

**A00357**

|                                                                                   |                                     |                                       |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|
| <b><u>Element Name:</u></b> Black-31_ScreenFill                                   | <b><u>Color Token:</u></b> Black-31 | <b><u>Screen :</u></b> 27 degrees 31% |
| <b><u>Description:</u></b> Black-31 Area Fill (Black 31% screen, 27 degree angle) |                                     |                                       |

## Area - Pattern

### A00001

|                                                                                                                                                                                                                                  |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <p><b><u>Element Name:</u></b> Black_PeateryFill</p> <p><b><u>Description:</u></b> Black Peat Fill</p> <p><b><u>Note:</u></b> Area Pattern #129</p> <p><b><u>Area Pattern:</u></b> See Element: Black_PeateryFill in Annex I</p> | <p><b><u>Color Token:</u></b> Black</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|

### A00014

|                                                                                                                                                                                                                                              |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <p><b><u>Element Name:</u></b> Black_ShantyTownFill</p> <p><b><u>Description:</u></b> Black Shantytown Fill</p> <p><b><u>Note:</u></b> Area Pattern #132</p> <p><b><u>Area Pattern:</u></b> See Element: Black_ShantyTownFill in Annex I</p> | <p><b><u>Color Token:</u></b> Black</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|

### A00015

|                                                                                                                                                                                                                                            |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p><b><u>Element Name:</u></b> Cyan_LSIFill</p> <p><b><u>Description:</u></b> Cyan Land Subject to Inundation Fill</p> <p><b><u>Note:</u></b> Area Pattern #10</p> <p><b><u>Area Pattern:</u></b> See Element: Cyan_LSIFill in Annex I</p> | <p><b><u>Color Token:</u></b> Cyan</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|

### A00016

|                                                                                                                                                                                                                                             |                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p><b><u>Element Name:</u></b> Cyan_AP103Fill</p> <p><b><u>Description:</u></b> Cyan Ice Cap, Polar Ice, Sabkha Fill</p> <p><b><u>Note:</u></b> Area Pattern #103</p> <p><b><u>Area Pattern:</u></b> See Element: Cyan_AP103 in Annex I</p> | <p><b><u>Color Token:</u></b> Cyan</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|

### A00017

|                                                                                                                                                                                                                                  |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <p><b><u>Element Name:</u></b> Cyan_GlacierFill</p> <p><b><u>Description:</u></b> Cyan Glacier Fill</p> <p><b><u>Note:</u></b> Area Pattern #104</p> <p><b><u>Area Pattern:</u></b> See Element: Cyan_GlacierFill in Annex I</p> | <p><b><u>Color Token:</u></b> Cyan</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|

**A00018**

**Element Name:** Cyan\_AP12\_Fill **Color Token:** Cyan  
**Description:** Cyan Bog, Marsh Fill  
**Note:** Area Pattern #12  
**Area Pattern:** See Element: Cyan\_AP12\_Fill in Annex I

**A00019**

**Element Name:** Cyan\_RiceFill **Color Token:** Cyan  
**Description:** Cyan Rice Fill  
**Note:** Area Pattern #4  
**Area Pattern:** See Element: Cyan\_RiceFill in Annex I

**A00020**

**Element Name:** Cyan\_DryDrainageFill **Color Token:** Cyan  
**Description:** Cyan Dry Drainage Fill  
**Note:** Area Pattern #95  
**Area Pattern:** See Element: Cyan\_DryDrainageFill in Annex I

**A00021**

**Element Name:** Cyan\_LP15Fill **Color Token:** Cyan **Screen :** 45 degrees 35%  
**Description:** Cyan Diagonal Line Fill - 35% coverage, 40L, 45 degree angle lines.  
**Note:** Line Pattern #15  
**Area Pattern:** See Element: Cyan\_LP15Fill in Annex I

**A00022**

**Element Name:** Dk-Brown1815\_MoraineFill **Color Token:** Dk-Brown1815  
**Description:** Dk-Brown1815 Moraine Fill  
**Note:** Area Pattern #99  
**Area Pattern:** See Element: Dk-Brown1815\_MoraineFill in Annex I

**A00030**

**Element Name:** Dk-Brown1815\_DistortedSurfaceFill **Color Token:** Dk-Brown1815  
**Description:** Dk-Brown1815 Distorted Surface Fill  
**Note:** Area Pattern #103  
**Area Pattern:** See Element: Dk-Brown1815\_DistortedSurfaceFill in Annex I

**A00031****Element Name:** Dk-Brown1815\_CrescentDunesFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Crescent Sand Dunes Fill**Note:** Area Pattern #108**Area Pattern:** See Element: Dk-Brown1815\_CrescentDunesFill in Annex I**A00032****Element Name:** Dk-Brown1815\_RippleDunesFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Ripple Sand Dunes Fill**Note:** Area Pattern #112**Area Pattern:** See Element: Dk-Brown1815\_RippleDunesFill in Annex I**A00033****Element Name:** Dk-Brown1815\_StarDunesFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Star Sand Dunes Fill**Note:** Area Pattern #120**Area Pattern:** See Element: Dk-Brown1815\_StarDunesFill in Annex I**A00034****Element Name:** Dk-Brown1815\_TransverseDunesFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Transverse Sand Dunes Fill**Note:** Area Pattern #127**Area Pattern:** See Element: Dk-Brown1815\_TransverseDunesFill in Annex I**A00035****Element Name:** Dk-Brown1815\_SandFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Sand Fill**Note:** Area Pattern #95**Area Pattern:** See Element: Dk-Brown1815\_SandFill in Annex I**A00036****Element Name:** Dk-Brown1815\_SandandGravelFill**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 Sand and Gravel Fill**Note:** Area Pattern #99**Area Pattern:** See Element: Dk-Brown1815\_SandandGravelFill in Annex I

**A00042**

**Element Name:** Dk-Brown1815\_DomeDunesFill **Color Token:** Dk-Brown1815  
**Description:** Dk-Brown1815 Dome Sand Dunes Fill  
**Note:** Area Pattern #126  
**Area Pattern:** See Element: Dk-Brown1815\_DomeDunesFill in Annex I

**A00043**

**Element Name:** Dk-Brown1815\_LinearDunesFill **Color Token:** Dk-Brown1815  
**Description:** DK-Brown1815 Linear Sand Dunes Fill  
**Note:** Area Pattern #118  
**Area Pattern:** See Element: Dk-Brown1815\_LinearDunesFill in Annex I

**A00044**

**Element Name:** Cyan\_SaltEvaporatorFill **Color Token:** Cyan  
**Description:** A grid pattern comprised of 1.5mm x 1.5mm squares. Grid alignment is parallel to longest axis of the perimeter line and centered.  
**Note:** Lineweight: 0.2mm; Length: 1.5mm; Grid squares: 1.5mm x 1.5mm; Grid alignment parallel to longest axis of perimeter line and centered

**A00058**

**Element Name:** Cyan\_SaltFlat\_Fill **Color Token:** Cyan  
**Description:** Cyan Salt Flat Fill  
**Note:** Area Pattern #95  
**Area Pattern:** See Element: Cyan\_SaltFlat\_Fill in Annex I

**A00107**

**Element Name:** Lt-Green\_ScatteredTreesFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Scattered Trees Fill  
**Note:** Area Pattern #44  
**Area Pattern:** See Element: Lt-Green\_ScatteredTreesFill in Annex I

**A00108**

**Element Name:** Lt-Green\_NipaPalmFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Nipa Palm Fill area pattern  
**Note:** Area Pattern #7  
**Area Pattern:** See Element: Lt-Green\_NipaPalmFill in Annex I

**A00109**

**Element Name:** Lt-Green\_GrasslandFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Grassland Fill  
**Note:** Area Pattern #66  
**Area Pattern:** See Element: Lt-Green\_GrasslandFill in Annex I

**A00111**

**Element Name:** Lt-Green\_VineyardHopFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Vineyard/Hops Fill  
**Note:** Area Pattern #77  
**Area Pattern:** See Element: Lt-Green\_VineyardHopFill in Annex I

**A00112**

**Element Name:** Lt-Green\_OrchardPlantationFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Orchard/Plantation Fill  
**Note:** Area Pattern #74  
**Area Pattern:** See Element: Lt-Green\_OrchardPlantationFill in Annex I

**A00115**

**Element Name:** Lt-Green\_MangroveFill **Color Token:** Lt-Green  
**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Mangrove Fill area pattern  
**Note:** Area Pattern #8  
**Area Pattern:** See Element: Lt-Green\_MangroveFill in Annex I

## **Annex F – Curve Elements**

### **Curve Elements**

Each of the curve elements used in Annex A – RTDS Symbols have been listed only one time in this Annex.

**Curve Elements**

**Line - Complex**

**L00055**

|                                                                                                                      |                                                     |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Bridge                                                                                    |                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line casing varying based upon separation; Wing Ticks (0.15mm wt, 0.75mm long) |                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick angle depends on which end of the feature they are placed                            |                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                   | <b>Element Name:</b> Black_0.3mmSolidDoubleLine     | <b>Element Reference:</b> L00019 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                                                   |                                                     |                                  |                                     |
|                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                     |                                                     |                                  |                                     |
|                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |

**L00057**

|                                                                                                                                      |                                                     |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Bridge (Draw/Lift)                                                                                        |                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line casing varying based upon separation; Open Circle and Wing Ticks (0.15mm wt, 0.75mm long) |                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick angle depends on which end of the feature they are placed                                            |                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                                   | <b>Element Name:</b> Black_0.3mmSolidDoubleLine     | <b>Element Reference:</b> L00019 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                                                                   |                                                     |                                  |                                     |
|                                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at Centre of Line:</b>                                                                                                  |                                                     |                                  |                                     |
|                                                                                                                                      | <b>Element Name:</b> Black_0.2mmOpenCircle          | <b>Element Reference:</b> P00048 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                     |                                                     |                                  |                                     |
|                                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenWingTick | <b>Element Reference:</b> P00042 | <b>Element Type:</b> Point - Simple |

**L00058**

|                                                                                           |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Bridge (Pedestrian)                                            |                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with V (0.15mm wt, 0.75mm long)                |                                              |                                  |                                     |
| <b>Miscellaneous Note:</b> Origin: Apex of 'V' touches bridge ends with ticks facing away |                                              |                                  |                                     |
| <b>Line Style:</b>                                                                        | <b>Element Name:</b> Black_0.3mmSolidLine    | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                        |                                              |                                  |                                     |
|                                                                                           | <b>Element Name:</b> Black_0.15mm-0.75mmLenV | <b>Element Reference:</b> P00039 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                          |                                              |                                  |                                     |
|                                                                                           | <b>Element Name:</b> Black_0.15mm-0.75mmLenV | <b>Element Reference:</b> P00039 | <b>Element Type:</b> Point - Simple |

**L00059**

|                                                                                            |                                                       |                                  |                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Embankment (WithoutTransport)                            |                                                       | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line with Ticks (0.15mm wt, 0.8mm long)      |                                                       |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is centered and 90 degrees to line. Tick Interval is 1.5mm |                                                       |                                  |                                     |
| <b>Line Style:</b>                                                                         | <b>Element Name:</b> Dk-Brown1815_0.15mmSolidLine     | <b>Element Reference:</b> L00240 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                    | <b>Element Name:</b> Dk-Brown1815_0.15mm-0.8mmLenTick | <b>Element Reference:</b> P00067 | <b>Element Type:</b> Point - Simple |
|                                                                                            | <b>Repeating Point Interval:</b> 1.5mm                |                                  |                                     |

**L00061**

|                                                                                                                        |                                                          |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Levee                                                                                |                                                          | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line casing varying based upon separation; Ticks (0.15mm wt, 0.5mm long) |                                                          |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick end is on and at 90 degrees to line, facing downhill. Tick Interval: 1.5mm             |                                                          |                                  |                                     |
| <b>Line Style:</b>                                                                                                     | <b>Element Name:</b> Dk-Brown1815_0.15mmSolidDoubleLines | <b>Element Reference:</b> L00241 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                | <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick    | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
|                                                                                                                        | <b>Repeating Point Interval:</b> 1.5mm                   |                                  |                                     |

**L00062**

|                                                                                                                 |                                                                                                                     |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Fence                                                                                |                                                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.0mm dash, 1.3mm gap) with 'X' (0.2mm wt, 1.3mm long) |                                                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> The black X is centered in the gap between the dashes                                |                                                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                              | <b>Element Name:</b><br>Black_0.15mm-5mmLenDash-1.3mmGapLine                                                        | <b>Element Reference:</b> L00239 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                         | <b>Element Name:</b> Black_0.2mm-1.3mmLenX<br><b>Repeating Point Interval:</b> Centered in the space between dashes | <b>Element Reference:</b> P00046 | <b>Element Type:</b> Point - Simple |

**L00063**

|                                                                                                               |                                                                                        |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_IceCliff                                                                            |                                                                                        | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 5.0mm dash, 0.5mm gap) with Tick (0.1mm wt, 0.5mm long) |                                                                                        |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick end is on and at 90 degrees to dashed line, facing downhill                   |                                                                                        |                                  |                                     |
| <b>Line Style:</b>                                                                                            | <b>Element Name:</b><br>Cyan_0.2mm-5mmLenDash-0.5mmGapLine                             | <b>Element Reference:</b> L00042 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                       | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 0.5mm | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |

**L00064**

|                                                                                      |                                                                                                |                                  |                                     |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Cliff (High)                                       |                                                                                                | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line with Ticks (0.1mm wt, 0.5mm long)  |                                                                                                |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick end is on and at 90 degrees to line, facing downhill |                                                                                                |                                  |                                     |
| <b>Line Style:</b>                                                                   | <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine                                               | <b>Element Reference:</b> L00023 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                              | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> 0.5mm | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |

**L00066**

|                                                                                                            |                                                       |                                  |                                     |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_GreaterThanContour                                                       |                                                       | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.15mm Solid Line with Ticks (0.15mm wt, 0.5mm long)                      |                                                       |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick end is on and at 90 degrees to line, facing downhill. Tick Interval: 1.5mm |                                                       |                                  |                                     |
| <b>Line Style:</b>                                                                                         | <b>Element Name:</b> Dk-Brown1815_0.15mmSolidLine     | <b>Element Reference:</b> L00240 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                    | <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |
|                                                                                                            | <b>Repeating Point Interval:</b> 1.5mm                |                                  |                                     |

**L00068**

|                                                                                                     |                                            |                                  |                                     |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Pipeline (Other)                                                         |                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line with 'V' (0.2mm wt, 0.7mm long)                         |                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> Origin: Apex of 'V' touches pipeline ends with "legs" of "V" facing away |                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                  | <b>Element Name:</b> Black_0.15mmSolidLine | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                                  |                                            |                                  |                                     |
|                                                                                                     | <b>Element Name:</b> Black_0.2mm-0.7mmLenV | <b>Element Reference:</b> P00045 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                    |                                            |                                  |                                     |
|                                                                                                     | <b>Element Name:</b> Black_0.2mm-0.7mmLenV | <b>Element Reference:</b> P00045 | <b>Element Type:</b> Point - Simple |

**L00069**

|                                                                                                     |                                           |                                  |                                     |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Pipeline (Water)                                                          |                                           | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.15mm Solid Line with 'V' (0.2mm wt, 0.7mm long)                          |                                           |                                  |                                     |
| <b>Miscellaneous Note:</b> Origin: Apex of 'V' touches pipeline ends with "legs" of "V" facing away |                                           |                                  |                                     |
| <b>Line Style:</b>                                                                                  | <b>Element Name:</b> Cyan_0.15mmSolidLine | <b>Element Reference:</b> L00245 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                                  |                                           |                                  |                                     |
|                                                                                                     | <b>Element Name:</b> Cyan_0.2mm-0.7mmLenV | <b>Element Reference:</b> P00058 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                    |                                           |                                  |                                     |
|                                                                                                     | <b>Element Name:</b> Cyan_0.2mm-0.7mmLenV | <b>Element Reference:</b> P00058 | <b>Element Type:</b> Point - Simple |

**L00070**

|                                                                                                                                                       |                                             |                                  |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_Powerline (Normal)                                                                                                       |                                             | <b>Color Token:</b> Blue072      |                                    |
| <b>Description:</b> Blue072 0.4mm Solid Line with Pylons                                                                                              |                                             |                                  |                                    |
| <b>Miscellaneous Note:</b> The repeating point is also positioned at points of directional change. The symbol should remain up most. Interval is 20mm |                                             |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                    | <b>Element Name:</b> Blue072_0.4mmSolidLine | <b>Element Reference:</b> L00005 | <b>Element Type:</b> Line - Simple |
| <b>Repeating Point:</b>                                                                                                                               | <b>Element Name:</b> Blue072_Pylon          | <b>Element Reference:</b> P00020 | <b>Element Type:</b> Point - Shape |
|                                                                                                                                                       | <b>Repeating Point Interval:</b> 20mm       |                                  |                                    |

**L00072**

|                                                                                      |                                                                         |                                  |                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeNon-electric)                   |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 1.5mm long) |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line.                |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                   | <b>Element Name:</b> Black_0.3mmSolidLine                               | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                              | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                      | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                          | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                      | <b>Repeating Point Interval:</b> Initial offset: 3.7mm after that 6.4mm |                                  |                                     |

**L00073**

|                                                                                                              |                                                                         |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeNon-electric)                                           |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 0.75mm long, 6.4mm interval)        |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are 90 degrees to line and tick pairs alternate on either side of the line. |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                           | <b>Element Name:</b> Black_0.3mmSolidLine                               | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                              | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                                                  | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                              | <b>Repeating Point Interval:</b> Initial offset: 3.7mm after that 6.4mm |                                  |                                     |

**L00074**

|                                                                                                                                                   |                                                                                                                                                                                                               |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeElectric)                                                                                    |                                                                                                                                                                                                               | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 1.5mm long, 6.4mm interval) and 0.5mm Dots                               |                                                                                                                                                                                                               |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line. |                                                                                                                                                                                                               |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                | <b>Element Name:</b> Black_0.3mmSolidLine                                                                                                                                                                     | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                           | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                     | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                       | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset 3.7mm after that 6.4mm                                                                                      | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                       | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.8mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track. | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>4th Repeating Point:</b>                                                                                                                       | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 4.1mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track. | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00075**

**Element Name:** Black\_Railway (SingleNarrowGaugeElectric)

**Color Token:** Black

**Description:** Black 0.3mm Solid Line with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots

**Miscellaneous Note:** Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line

**Line Style:** **Element Name:** Black\_0.3mmSolidLine **Element Reference:** L00011 **Element Type:** Line - Simple

**Repeating Point:** **Element Name:** Black\_0.15mm-0.75mmLenTick **Element Reference:** P00038 **Element Type:** Point - Simple  
**Repeating Point Interval:** Initial offset: 3.2mm after that 6.4mm

**2nd Repeating Point:** **Element Name:** Black\_0.5mmFilledDot **Element Reference:** P00049 **Element Type:** Point - Simple  
**Repeating Point Interval:** Initial offset: 2.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides

**3rd Repeating Point:** **Element Name:** Black\_0.5mmFilledDot **Element Reference:** P00049 **Element Type:** Point - Simple  
**Repeating Point Interval:** Initial offset: 3.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides.

**L00076**

|                                                                                                                                                                              |                                                                                                                                                                                                                                     |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeElectric)                                                                                                               |                                                                                                                                                                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Double Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                                                                         |                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                                                                                                                                                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                           | <b>Element Name:</b> Black_0.3mmSolidLine                                                                                                                                                                                           | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                                          | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset 3.7mm after that 6.4mm                                                                                                           | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.8mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides. | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>4th Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 4.1mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides. | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00077**

|                                                                                                                         |                                                                                                                           |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeNon-electricNon-use)                                               |                                                                                                                           | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 1.5mm long) |                                                                                                                           |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick pair (0.5mm gap between each tick) is centered in dash and 90 degrees to line.          |                                                                                                                           |                                  |                                     |
| <b>Line Style:</b>                                                                                                      | <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                 | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                             | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset 3.2mm after that 6.4mm  | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |

**L00078**

|                                                                                                                  |                                                                                                                            |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeNon-electricNon-use)                                        |                                                                                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 1.5mm long) |                                                                                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is centered in dash and 90 degrees to line.                                      |                                                                                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                               | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                              | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                          | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |

**L00079**

|                                                                                                                                            |                                                                                                                             |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeNon-electricNon-use)                                                                  |                                                                                                                             | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long)                          |                                                                                                                             |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are based 90 degrees to line and alternate on either side of the line. Ticks are centered along the dash. |                                                                                                                             |                                  |                                     |
| <b>Line Style:</b>                                                                                                                         | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                               | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                    | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |

**L00080**

|                                                                                                                                                                 |                                                                                                                            |                                  |                                     |
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| <b>Element Name:</b> Black_Railway (DoubleNarrowGaugeNon-electricNon-use)                                                                                       |                                                                                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 0.75mm long)                                        |                                                                                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick pair (0.5mm gap between each tick) is centered in dash and 90 degrees to line. Tick pairs alternate on either side of the line. |                                                                                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                              | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                              | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                         | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                                     | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset 3.2mm after that 6.4mm  | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |

**L00081**

|                                                                                                        |                                                                         |                                  |                                     |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Car-Line                                                                    |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 1.5mm long, 3.8mm interval)         |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line. Tick length extends across road. |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                     | <b>Element Name:</b> Black_0.15mmSolidLine                              | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                                        | <b>Repeating Point Interval:</b> Initial offset: 1.9mm after that 3.8mm |                                  |                                     |

**L00083**

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeElectricNon-use)                                                                                                 |                                                                                                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                                      |                                                                                                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is 0.75mm from the center of the line style line |                                                                                                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                    | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                                           | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                               | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                       | <b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm                                                                                |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                                                                                                           | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                               | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                       | <b>Repeating Point Interval:</b> Initial offset: 2.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track |                                  |                                     |
| <b>3rd Repeating Point:</b>                                                                                                                                           | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                               | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                       | <b>Repeating Point Interval:</b> Initial offset: 3.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track |                                  |                                     |

**L00084**

|                                                                                                                                                                              |                                                                                                                                                                                                                                    |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNarrowGauge ElectricNon-use)                                                                                                       |                                                                                                                                                                                                                                    | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                                      |                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                                                                                                                                                                                                                    |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                           | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                                                                                                                      | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                                      | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm                                                                                                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.3mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>4th Repeating Point:</b>                                                                                                                                                  | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.6mm after that 12.8mm. Dots are placed on every pair of ticks on the north/west most side of the track since ticks alternate sides | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00085**

|                                                                                                                                                        |                                                                                                                                                                                                      |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeElectricNon-use)                                                                                  |                                                                                                                                                                                                      | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                       |                                                                                                                                                                                                      |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is centered in dash and 90 degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                                                                                                                                                                                      |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                     | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                                                                                        | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm                                                                           | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                            | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                            | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.45mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00086**

|                                                                                                                                                                                           |                                                                                                                                                                                                     |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (DoubleNormalGaugeElectricNon-use)                                                                                                                     |                                                                                                                                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) with Double Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                                                   |                                                                                                                                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick pair (0.5mm gap between each tick) is centered in dash and 90 degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                                                                                                                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                        | <b>Element Name:</b><br>Black_0.3mm-5.9mmLenDash-0.5mmGapLine                                                                                                                                       | <b>Element Reference:</b> L00039 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                                                   | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm                                                                           | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                                                               | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                           | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                                                               | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.3mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>4th Repeating Point:</b>                                                                                                                                                               | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.6mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00087**

|                                                                                                   |                                                                                                                            |                                  |                                     |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNarrowGaugeNon-electric)                                |                                                                                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 0.75mm long)                    |                                                                                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are 90 degrees to line and alternate on either side of the line. |                                                                                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                | <b>Element Name:</b> Black_0.3mmSolidLine                                                                                  | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                           | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |

**L00088**

|                                                                                                                                                  |                                                                                                                                                                  |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeElectric)                                                                                   |                                                                                                                                                                  | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 1.5mm long)                                                                    |                                                                                                                                                                  |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered 90 and degrees to line. Bottom of each dot is offset 0.75mm from the center of the line style line |                                                                                                                                                                  |                                  |                                     |
| <b>Line Style:</b>                                                                                                                               | <b>Element Name:</b> Black_0.3mmSolidLine                                                                                                                        | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                          | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                                                                   | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                  | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                          |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                                                                                      | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                        | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                  | <b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track. |                                  |                                     |
| <b>3rd Repeating Point:</b>                                                                                                                      | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                        | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                  | <b>Repeating Point Interval:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track. |                                  |                                     |

**L00090**

|                                                                                                                                                               |                                                                                                                                                                              |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeElectric)                                                                                                  |                                                                                                                                                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 0.75mm long) and 0.5mm Dots                                                                |                                                                                                                                                                              |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is based 90 degrees to line and set alternate on either side of the line. Bottom of Dot is 0.75mm from the center of the line |                                                                                                                                                                              |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                            | <b>Element Name:</b> Black_0.15mmSolidLine                                                                                                                                   | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                       | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                                                                                                                              | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                               | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                                      |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                                                                                                   | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                                    | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                               | <b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every tick on the north/west most side of the track since ticks alternate sides |                                  |                                     |
| <b>3rd Repeating Point:</b>                                                                                                                                   | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                                    | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                               | <b>Repeating Point Interval:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track.                      |                                  |                                     |

**L00091**

|                                                                                                             |                                                                         |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeNon-electric)                                            |                                                                         |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 0.75mm long)                             |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is based 90 degrees to line and ticks alternate on either side of the line. |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                          | <b>Element Name:</b> Black_0.15mmSolidLine                              | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                     | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                         | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                             | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm |                                  |                                     |

**L00092**

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|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeElectric)                                                            |                                                                                                                                                                  |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> Black 0.15mm Solid Line with Ticks (0.15mm wt, 1.5mm long ) and 0.5mm Dots                          |                                                                                                                                                                  |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is centered and 90 degrees to line. Bottom of Dot is 0.75mm from the center of the line |                                                                                                                                                                  |                                  |                                     |
| <b>Line Style:</b>                                                                                                      | <b>Element Name:</b> Black_0.15mmSolidLine                                                                                                                       | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                 | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                                                                                                                   | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                                                         | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm                                                                                          |                                  |                                     |
| <b>2nd Repeating Point:</b>                                                                                             | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                        | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                         | <b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 12.8mm. Dots are placed on every other pair of ticks on the north/west most side of the track. |                                  |                                     |
| <b>3rd Repeating Point:</b>                                                                                             | <b>Element Name:</b> Black_0.5mmFilledDot                                                                                                                        | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
|                                                                                                                         | <b>Repeating Point Interval:</b> Initial offset: 3.7mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track.          |                                  |                                     |

**L00093**

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|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Railway (SingleNormalGaugeNon-electric)            |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Solid Line with Ticks (0.15mm wt, 1.5mm long) |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line          |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                            | <b>Element Name:</b> Black_0.3mmSolidLine                               | <b>Element Reference:</b> L00011 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                       | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                               | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm |                                  |                                     |

**L00094**

|                                                                                                                                                                                  |                                                                 |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Tunnel (Aqueduct)                                                                                                                                      |                                                                 | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cased Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Cyan 0.2mm Tick Entrance/Exit at each end                                              |                                                                 |                                  |                                     |
| <b>Miscellaneous Note:</b> A Cyan Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                                                 |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                               | <b>Element Name:</b><br>Cased_Cyan_0.2mm_1mmDashed-0.5mmGapLine | <b>Element Reference:</b> L00214 | <b>Element Type:</b> Line - Styled  |
| <b>Fix Point at Start of Line:</b>                                                                                                                                               | <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit               | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                                                                 | <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit               | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |

**L00095**

|                                                                                                                                                                                  |                                                            |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Tunnel (Canal)                                                                                                                                         |                                                            | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Cyan 0.2mm Tick Entrance/Exit at each end                                                    |                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> A Cyan Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                               | <b>Element Name:</b><br>Cyan_0.2mm-1mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00040 | <b>Element Type:</b> Line - Styled  |
| <b>Fix Point at Start of Line:</b>                                                                                                                                               |                                                            |                                  |                                     |
|                                                                                                                                                                                  | <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit          | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                                                                 |                                                            |                                  |                                     |
|                                                                                                                                                                                  | <b>Element Name:</b> Cyan_0.2mmTick-Entrance/Exit          | <b>Element Reference:</b> P00074 | <b>Element Type:</b> Point - Simple |

**L00096**

|                                                                                                                                                                                   |                                                             |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Tunnel (Rail)                                                                                                                                          |                                                             | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Black 0.2mm Tick Entrance/Exit at each end                                                   |                                                             |                                  |                                     |
| <b>Miscellaneous Note:</b> A Black Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                                             |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                | <b>Element Name:</b><br>Black_0.2mm-1mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00031 | <b>Element Type:</b> Line - Styled  |
| <b>Fix Point at Start of Line:</b>                                                                                                                                                |                                                             |                                  |                                     |
|                                                                                                                                                                                   | <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit          | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                                                                  |                                                             |                                  |                                     |
|                                                                                                                                                                                   | <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit          | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |

**L00097**

|                                                                                                                                                                                   |                                                                  |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Tunnel (Road)                                                                                                                                          |                                                                  | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Cased Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with a Black 0.2mm Tick Entrance/Exit at each end                                             |                                                                  |                                  |                                     |
| <b>Miscellaneous Note:</b> A Black Entrance/Exit point symbol is placed centered at each end of the tunnel line at 90 degrees. Wing ticks always point away from the tunnel line. |                                                                  |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                | <b>Element Name:</b><br>Cased_Black_0.2mm_1mmDashed-0.5mmGapLine | <b>Element Reference:</b> L00213 | <b>Element Type:</b> Line - Styled  |
| <b>Fix Point at Start of Line:</b>                                                                                                                                                |                                                                  |                                  |                                     |
|                                                                                                                                                                                   | <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit               | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                                                                  |                                                                  |                                  |                                     |
|                                                                                                                                                                                   | <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit               | <b>Element Reference:</b> P00073 | <b>Element Type:</b> Point - Simple |

**L00106**

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|-----------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Aqueduct / Penstock                                           |                                           | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.3mm Solid Line with 'V' (0.3mm wt, 0.7mm long)               |                                           |                                  |                                     |
| <b>Miscellaneous Note:</b> Origin: Apex of 'V' touches line ends with ticks facing away |                                           |                                  |                                     |
| <b>Line Style:</b>                                                                      | <b>Element Name:</b> Cyan_0.3mmSolidLine  | <b>Element Reference:</b> L00016 | <b>Element Type:</b> Line - Simple  |
| <b>Fix Point at Start of Line:</b>                                                      |                                           |                                  |                                     |
|                                                                                         | <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                        |                                           |                                  |                                     |
|                                                                                         | <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |

**L00111**

|                                                                                                                                                                                                                                                                                        |                                                      |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Land-DepressionIndex                                                                                                                                                                                                                                 |                                                      | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5mm long ticks                                                                                                                                                                                |                                                      |                                  |                                     |
| <b>Miscellaneous Note:</b> Each depression contour shall have ticks spaced equally on each descending depression contour. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by 1/2 to achieve legibility. |                                                      |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                                                     | <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine     | <b>Element Reference:</b> L00023 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                                                                | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                                                                                                                                        | <b>Repeating Point Interval:</b> Variable            |                                  |                                     |

**L00112**

|                                                                                                                                                                                                                                                       |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIce-DepressionIndex                                                                                                                                                                                                     |                                              | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.2mm Solid Line with repeating Blue 0.1mm wt 0.5mm long ticks                                                                                                                                                               |                                              |                                  |                                     |
| <b>Miscellaneous Note:</b> Each depression contour shall have ticks spaced equally. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by one-half to achieve legibility. |                                              |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                    | <b>Element Name:</b> Cyan_0.2mmSolidLine     | <b>Element Reference:</b> L00015 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                               | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                                                                                                       | <b>Repeating Point Interval:</b> Variable    |                                  |                                     |

**L00113**

|                                                                                                                                                                                                                                                                                         |                                                      |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Land-DepressionIntermediate                                                                                                                                                                                                                           |                                                      | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.1mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5mm long ticks                                                                                                                                                                                 |                                                      |                                  |                                     |
| <b>Miscellaneous Note:</b> Depression contours shall have ticks spaced equally on each descending depression contour line. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by 1/2 to achieve legibility. |                                                      |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                                                      | <b>Element Name:</b> Dk-Brown1815_0.1mmSolidLine     | <b>Element Reference:</b> L00107 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                                                                 | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                                                                                                                                         | <b>Repeating Point Interval:</b> Variable            |                                  |                                     |

**L00114**

|                                                                                                                                                                                                                                                                               |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIce-DepressionIntermediate                                                                                                                                                                                                                      |                                              | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.1mm Solid Line with repeating Blue 0.1mm wt 0.5mm long ticks                                                                                                                                                                                       |                                              |                                  |                                     |
| <b>Miscellaneous Note:</b> Each depression contour shall have ticks spaced equally pointing into the depression. Where the slope of a depression is such that the contours become very close, the length of the depression ticks may be reduced by 1/2 to achieve legibility. |                                              |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                                            | <b>Element Name:</b> Cyan_0.1mmSolidLine     | <b>Element Reference:</b> L00108 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                                                       | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                                                                                                                               | <b>Repeating Point Interval:</b> Variable    |                                  |                                     |

**L00115**

|                                                                                                                             |                                                      |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Land-MoundIndex                                                                           |                                                      | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.2mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                                      |                                  |                                     |
| <b>Line Style:</b>                                                                                                          | <b>Element Name:</b> Dk-Brown1815_0.2mmSolidLine     | <b>Element Reference:</b> L00023 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                     | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
|                                                                                                                             | <b>Repeating Point Interval:</b> 2.0mm               |                                  |                                     |

**L00116**

|                                                                                                                             |                                                      |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Land-MoundIntermediate                                                                    |                                                      | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.1mm Solid Line with repeating Dk-Brown1815 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                                      |                                  |                                     |
| <b>Line Style:</b>                                                                                                          | <b>Element Name:</b> Dk-Brown1815_0.1mmSolidLine     | <b>Element Reference:</b> L00107 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                     | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
|                                                                                                                             | <b>Repeating Point Interval:</b> 2.0mm               |                                  |                                     |

**L00119**

|                                                                                                                                          |                                                        |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_Land-DepressionAuxiliary                                                                               |                                                        | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) with repeating Dk-Brown1815 0.1mm wt 0.5 long ticks |                                                        |                                  |                                     |
| <b>Line Style:</b>                                                                                                                       | <b>Element Name:</b> Dk-Brown1815_0.1mm-3mmLenDashLine | <b>Element Reference:</b> L00109 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                  | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick   | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                          | <b>Repeating Point Interval:</b> Centered on each dash |                                  |                                     |

**L00120**

|                                                                                                                          |                                                        |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIce-DepressionAuxiliary                                                                    |                                                        | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) with repeating Cyan 0.1mm wt 0.5 long ticks |                                                        |                                  |                                     |
| <b>Line Style:</b>                                                                                                       | <b>Element Name:</b> Cyan_0.1mm-3mmLenDashLine         | <b>Element Reference:</b> L00110 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                  | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick           | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|                                                                                                                          | <b>Repeating Point Interval:</b> Centered on each dash |                                  |                                     |

**L00124**

|                                                                                                                                                  |                                                        |                                     |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815-54_International-Boundary                                                                                      |                                                        | <b>Color Token:</b> Dk-Brown1815-54 |                                    |
| <b>Description:</b> Black 0.5mm Dashed Line (0.5mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps) and Dk-Brown1815-54 2.0mm Screened Line overprint |                                                        |                                     |                                    |
| <b>Miscellaneous Note:</b> Dk-Brown1815-54 screened line is centered on Black dashed line.                                                       |                                                        |                                     |                                    |
| <b>Line Style:</b>                                                                                                                               | <b>Element Name:</b> Black_0.5mm-7mmDash-2x2mmDashLine | <b>Element Reference:</b> L00122    | <b>Element Type:</b> Line - Styled |
| <b>2nd Line Style:</b>                                                                                                                           | <b>Element Name:</b> Dk-Brown1815-54_2.0mmScreenedLine | <b>Element Reference:</b> L00123    | <b>Element Type:</b> Line - Simple |

**L00127**

|                                                                                                                         |                                                             |                                     |                                    |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815-42_ArmisticeLine-Boundary                                                             |                                                             | <b>Color Token:</b> Dk-Brown1815-42 |                                    |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.0mm dash, 1.0mm gap) Dk-Brown1815-42 2.0mm 60 degree overprint |                                                             |                                     |                                    |
| <b>Miscellaneous Note:</b> Dk-Brown1815-42 overprint is centered on Black dashed line.                                  |                                                             |                                     |                                    |
| <b>Line Style:</b>                                                                                                      | <b>Element Name:</b><br>Black_0.3mm-5mmLenDash-1.0mmGapLine | <b>Element Reference:</b> L00125    | <b>Element Type:</b> Line - Styled |
| <b>2nd Line Style:</b>                                                                                                  | <b>Element Name:</b> Dk-Brown1815-42_2.0mmScreenedLine      | <b>Element Reference:</b> L00126    | <b>Element Type:</b> Line - Simple |

**L00129**

|                                                                                                                           |                                                                                                         |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_AdminBoundary                                                                                  |                                                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 6.1mm dash, 2.5mm gap) with 0.25mm filled dot centered in dash gap |                                                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                                        | <b>Element Name:</b><br>Black_0.2mm-6.1mmLenDash-2.5mmGapLine                                           | <b>Element Reference:</b> L00128 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                   | <b>Element Name:</b> Black_0.25mmFilledDot<br><b>Repeating Point Interval:</b> Dot centered in dash gap | <b>Element Reference:</b> P00047 | <b>Element Type:</b> Point - Simple |

**L00134**

|                                                                                                                            |                                                                                     |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_AdminDivision-Tertiary                                                                          |                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash) and 0.4mm Filled Dot (repeating 3 total) each gap 1.5mm |                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Repeating pattern is a 7.0mm dash followed by 3 dots with each gap 1.5mm.                       |                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                         | <b>Element Name:</b> Black_0.3mm-7mmLenDash                                         | <b>Element Reference:</b> L00133 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                    | <b>Element Name:</b> Black_0.4mmFilledDot<br><b>Repeating Point Interval:</b> 1.5mm | <b>Element Reference:</b> P00082 | <b>Element Type:</b> Point - Simple |

**L00140**

|                                                                                                                                                                                                                                                                |                                                                                                                            |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwayInRoad                                                                                                                                                                                                                       |                                                                                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.75mm Solid Line, PaperWhite 0.45mm Solid Line with repeating Black 0.15mm wt 0.75mm length ticks                                                                                                                                   |                                                                                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> The complex line is a combination of 2 lines. Display Level: Bottom (1):Black 0.75mm solid line, (2):PaperWhite 0.45mm solid line with repeating Black 0.15mm (0.75mm length) ticks on top and centered at 90 degrees to the lines. |                                                                                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                             | <b>Element Name:</b> Black_0.75mmSolidLine                                                                                 | <b>Element Reference:</b> L00232 | <b>Element Type:</b> Line - Simple  |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                         | <b>Element Name:</b> PaperWhite_0.45mmSolidLine                                                                            | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                                        | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |

**L00141**

|                                                                                               |                                                                         |                                  |                                     |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeNon-electric)                              |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line with repeating Black 0.15mm wt 1.5mm length ticks |                                                                         |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line.                         |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                            | <b>Element Name:</b> Black_0.15mmSolidLine                              | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                       | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                               | <b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 6.4mm |                                  |                                     |

**L00150**

|                                                                                                                                                                                     |                                                 |                                  |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_Runway                                                                                                                                                 |                                                 | <b>Color Token:</b> Blue072      |                                    |
| <b>Description:</b> Blue072 0.85mm Solid Line (0.85mm wt) with a PaperWhite 0.25mm Solid Line (0.25mm wt) centered inside                                                           |                                                 |                                  |                                    |
| <b>Miscellaneous Note:</b> The Blue072 0.85mm solid line combined with the 0.25mm width paper white line placed inside form a 0.3mm lineweight outline with a total width of 0.85mm |                                                 |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                  | <b>Element Name:</b> Blue072_0.85mmSolidLine    | <b>Element Reference:</b> L00298 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                              | <b>Element Name:</b> PaperWhite_0.25mmSolidLine | <b>Element Reference:</b> L00222 | <b>Element Type:</b> Line - Simple |

**L00154**

|                                                                                                                                                                              |                                                  |                                  |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_1Lane                                                                                                                  |                                                  | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 0.5mm Solid Line and Dk-Brown1815 0.3mm Solid Line combined                                                                                        |                                                  |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.5mm Solid Line, Top (2): Dk-Brown1815 0.3mm Solid Line. |                                                  |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                           | <b>Element Name:</b> Black_0.5mmSolidLine        | <b>Element Reference:</b> L00014 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                       | <b>Element Name:</b> Dk-Brown1815_0.3mmSolidLine | <b>Element Reference:</b> L00105 | <b>Element Type:</b> Line - Simple |

**L00157**

|                                                                                                                                                                             |                                                  |                                  |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_MultipleLanes                                                                                                         |                                                  | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 0.8mm Solid Line and Dk-Brown1815 0.5mm Solid Line combined                                                                                       |                                                  |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.8mm Solid Line, Top (2):Dk-Brown1815 0.5mm Solid Line. |                                                  |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                          | <b>Element Name:</b> Black_0.8mmSolidLine        | <b>Element Reference:</b> L00155 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                      | <b>Element Name:</b> Dk-Brown1815_0.5mmSolidLine | <b>Element Reference:</b> L00156 | <b>Element Type:</b> Line - Simple |

**L00160**

|                                                                                                                                                                                                        |                                                  |                                  |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_Usable_Median_MultipleLanes                                                                                                                                      |                                                  | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 1.0mm Solid Line, Dk-Brown1815 0.6mm Solid Line and Black 0.1mm Solid Line combined                                                                                          |                                                  |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 1.0mm Solid Line, (2):Dk-Brown1815 0.6mm Solid Line, Top (3):Black 0.1mm Solid Line |                                                  |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                     | <b>Element Name:</b> Black_1.0mmSolidLine        | <b>Element Reference:</b> L00158 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                 | <b>Element Name:</b> Dk-Brown1815_0.6mmSolidLine | <b>Element Reference:</b> L00159 | <b>Element Type:</b> Line - Simple |
| <b>3rd Line Style:</b>                                                                                                                                                                                 | <b>Element Name:</b> Black_0.1mmSolidLine        | <b>Element Reference:</b> L00007 | <b>Element Type:</b> Line - Simple |

**L00161**

|                                                                                                                                                                                                                              |                                                                   |                                  |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_Usable_NoMedian_1Lane                                                                                                                                                                 |                                                                   | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 0.5mm Solid Line, PaperWhite 0.3mm Solid Line and Dk-Brown1815 0.3mm 3mm Len Dash 1.5mm Gap Line combined                                                                                          |                                                                   |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.5mm Solid Line, (2):PaperWhite 0.3mm Solid Line, Top (3):Dk-Brown1815 0.3mm-3mm Len Dash-1.5mm Gap Line |                                                                   |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                           | <b>Element Name:</b> Black_0.5mmSolidLine                         | <b>Element Reference:</b> L00014 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                       | <b>Element Name:</b> PaperWhite_0.3mmSolidLine                    | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple |
| <b>3rd Line Style:</b>                                                                                                                                                                                                       | <b>Element Name:</b> Dk-Brown1815_0.3mm-3.0mmLenDash-1.5mmGapLine | <b>Element Reference:</b> L00191 | <b>Element Type:</b> Line - Styled |

**L00162**

**Element Name:** Road\_LooseSurface\_Usable\_NoMedian\_MultipleLanes **Color Token:** Dk-Brown1815

**Description:** Black 0.8mm Solid Line, PaperWhite 0.5mm Solid Line and Dk-Brown1815 0.5mm 3mm Len Dash 1.5mm Gap Line combined

**Miscellaneous Note:** Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.8mm Solid Line, (2):PaperWhite 0.5mm Solid Line, Top (3):Dk-Brown1815 0.3mm-3mm Len Dash-1.5mm Gap Line

**Line Style:** **Element Name:** Black\_0.8mmSolidLine **Element Reference:** L00155 **Element Type:** Line - Simple

**2nd Line Style:** **Element Name:** PaperWhite\_0.5mmSolidLine **Element Reference:** L00186 **Element Type:** Line - Simple

**3rd Line Style:** **Element Name:** Dk-Brown1815\_0.5mm-3.0mmLenDash-1.5mmGapLine **Element Reference:** L00192 **Element Type:** Line - Styled

**L00165**

**Element Name:** Road\_HardSurface\_NotUsable\_NoMedian\_1Lane **Color Token:** Dk-Brown1815

**Description:** PaperWhite 0.5mm Solid Line, Black\_0.5mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.3mm 2.5mm Len Dash 0.5mm Gap Line combined

**Miscellaneous Note:** Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.5mm Solid Line, (2):Black\_0.5mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815\_0.3mm-2.5mmLenDash-0.5mmGapLine. The gaps are coincident between the two lines.

**Line Style:** **Element Name:** PaperWhite\_0.5mmSolidLine **Element Reference:** L00186 **Element Type:** Line - Simple

**2nd Line Style:** **Element Name:** Black\_0.5mm-2.5mmLenDash-0.5mmGapLine **Element Reference:** L00340 **Element Type:** Line - Styled

**3rd Line Style:** **Element Name:** Dk-Brown1815\_0.3mm-2.5mmLenDash-0.5mmGapLine **Element Reference:** L00164 **Element Type:** Line - Styled

**L00167**

**Element Name:** Black\_Road\_CasedLine **Color Token:** Black

**Description:** Black 0.6mm Solid Line and PaperWhite 0.3mm Solid Line combined.

**Miscellaneous Note:** Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.6mm Solid Line, Top (2):PaperWhite 0.3mm Solid Line.

**Line Style:** **Element Name:** Black\_0.6mmSolidLine **Element Reference:** L00153 **Element Type:** Line - Simple

**2nd Line Style:** **Element Name:** PaperWhite\_0.3mmSolidLine **Element Reference:** L00166 **Element Type:** Line - Simple

**L00171**

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_NotUsable_Median_MultipleLanes                                                                                                                                                                                                                       |                                                                   | <b>Color Token:</b> Black        |                                    |
| <b>Description:</b> PaperWhite 1.0mm Solid Line, Black 1.0mm-2.5mmLenDash-0.5mmGapLine, Dk-Brown1815 0.6mm-2.5mmLenDash-0.5mmGapLine, and Black 0.1mm-2.5mmLenDash-0.5mmGapLine combined                                                                                                   |                                                                   |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 4 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 1.0mm Line, (2):Black_1.0mm-2.5mmLenDash-0.5mmLine, (3):Dk-Brown1815_0.6mm-2.5mmLenDash-0.5mmLine, Top (4):Black_0.1mm-2.5mmLenDash-0.5mmLine. Gaps are coincident |                                                                   |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                                                         | <b>Element Name:</b> PaperWhite_1.0mmSolidLine                    | <b>Element Reference:</b> L00184 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                                                     | <b>Element Name:</b> Black_1.0mm-2.5mmLenDash-0.5mmGapLine        | <b>Element Reference:</b> L00168 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                                                                     | <b>Element Name:</b> Dk-Brown1815_0.6mm-2.5mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00169 | <b>Element Type:</b> Line - Styled |
| <b>4th Line Style:</b>                                                                                                                                                                                                                                                                     | <b>Element Name:</b> Black_0.1mm-2.5mmLenDash-0.5mmGapLine        | <b>Element Reference:</b> L00170 | <b>Element Type:</b> Line - Styled |

**L00174**

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_NotUsable_NoMedian_MultipleLanes                                                                                                                                                                                                                    |                                                                   | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> PaperWhite 0.8mm Solid Line, Black 0.8mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.5mm 2.5mm Len Dash 0.5mm Gap Line combined                                                                                                                                  |                                                                   |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.8mm Solid Line, (2):Black_0.8mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815_0.5mm-2.5mmLenDash-0.5mmGapLine. The gaps are coincident between the two lines. |                                                                   |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                                                        | <b>Element Name:</b> PaperWhite_0.8mmSolidLine                    | <b>Element Reference:</b> L00183 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                                                    | <b>Element Name:</b> Black_0.8-2.5mmLenDash-0.5mmGapLine          | <b>Element Reference:</b> L00172 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                                                                    | <b>Element Name:</b> Dk-Brown1815_0.5mm-2.5mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00173 | <b>Element Type:</b> Line - Styled |

**L00189**

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_NotUsable_NoMedian_1Lane                                                                                                                                                                                                  |                                                               | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> PaperWhite 0.5mm Solid Line, Black 0.5mm 3.0mm Len Dash 1.5mm Gap Line, PaperWhite 0.3mm Solid Line, and Dk-Brown1815 0.3mm-3-3-1.5-1.5-3mm Dashed Line combined                                                                             |                                                               |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 4 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.5mm Solid Line (2):Black_0.5mm-3.0mmLenDash-1.5mmGapLine, (3):PaperWhite 0.3mm Line, Top (4):Dk-Brown1815_0.3mm-3-3-1.5-1.5-3DashLine. |                                                               |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                               | <b>Element Name:</b> PaperWhite_0.5mmSolidLine                | <b>Element Reference:</b> L00186 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                           | <b>Element Name:</b> Black_0.5mm-3.0mmLenDash-1.5mmGapLine    | <b>Element Reference:</b> L00175 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                                           | <b>Element Name:</b> PaperWhite_0.3mmSolidLine                | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple |
| <b>4th Line Style:</b>                                                                                                                                                                                                                                           | <b>Element Name:</b> Dk-Brown1815_0.3mm-3-3-1.5-1.5-3DashLine | <b>Element Reference:</b> L00187 | <b>Element Type:</b> Line - Styled |

**L00190**

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_NotUsable_NoMedian_MultipleLanes                                                                                                                                                                                           |                                                               | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> PaperWhite 0.8mm Solid Line, Black 0.8mm 3.0mm Len Dash 1.5mm Gap Line, PaperWhite 0.5mm Solid Line, and Dk-Brown1815 0.5mm-3-3-1.5-1.5-3mm Dashed Line combined                                                                              |                                                               |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 4 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.8mm Solid Line, (2):Black_0.8mm-3.0mmLenDash-1.5mmGapLine, (3):PaperWhite 0.5mm Line, Top (4):Dk-Brown1815_0.5mm-3-3-1.5-1.5-3DashLine. |                                                               |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                                | <b>Element Name:</b> PaperWhite_0.8mmSolidLine                | <b>Element Reference:</b> L00183 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                            | <b>Element Name:</b> Black_0.8mm-3.0mmLenDash-1.5mmGapLine    | <b>Element Reference:</b> L00188 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                                            | <b>Element Name:</b> PaperWhite_0.5mmSolidLine                | <b>Element Reference:</b> L00186 | <b>Element Type:</b> Line - Simple |
| <b>4th Line Style:</b>                                                                                                                                                                                                                                            | <b>Element Name:</b> Dk-Brown1815_0.5mm-3-3-1.5-1.5-3DashLine | <b>Element Reference:</b> L00185 | <b>Element Type:</b> Line - Styled |

**L00197**

|                                                                                                                                                                                                       |                                                             |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Ford                                                                                                                                                                       |                                                             | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with cyan "V"s attached at the start and end of the line. The "V"s apex point inward towards the related hydrographic feature |                                                             |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                    | <b>Element Name:</b><br>Black_0.2mm-1mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00031 | <b>Element Type:</b> Line - Styled  |
| <b>Fix Point at Start of Line:</b>                                                                                                                                                                    |                                                             |                                  |                                     |
|                                                                                                                                                                                                       | <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at End of Line:</b>                                                                                                                                                                      |                                                             |                                  |                                     |
|                                                                                                                                                                                                       | <b>Element Name:</b> Cyan_0.3mm-0.9mmLenV                   | <b>Element Reference:</b> P00208 | <b>Element Type:</b> Point - Simple |

**L00199**

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|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Car-Line (Non-use)                                                                      |                                                                         | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 3.3mm dash, 0.5mm gap) with Ticks (0.15mm wt, 1.5mm long) |                                                                         |                                  |                                     |
| <b>Line Style:</b>                                                                                                 | <b>Element Name:</b><br>Black_0.15mm-3.3mmLenDash-0.5mmGapLine          | <b>Element Reference:</b> L00198 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                            | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick                          | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
|                                                                                                                    | <b>Repeating Point Interval:</b> Initial offset:1.65mm after that 3.8mm |                                  |                                     |

**L00204**

|                                                                                                                                                                                                                                                                 |                                                                          |                                  |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwayInRoad (Non-use)                                                                                                                                                                                                              |                                                                          | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Cased Dashed Line (0.75mm wt, 5.9mm dash, 0.5mm gap) with Ticks (0.15mm wt, 0.75mm long)                                                                                                                                       |                                                                          |                                  |                                     |
| <b>Miscellaneous Note:</b> The complex line is a combination of 2 lines. Display Level: Bottom (1):Black 0.75mm dashed line, (2):PaperWhite 0.45mm solid line with repeating Black 0.15mm (0.75mm length) ticks on top and centered at 90 degrees to the lines. |                                                                          |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                                                                                                              | <b>Element Name:</b><br>Black_0.75mm-5.9mmLenDash-0.5mmGapLine           | <b>Element Reference:</b> L00230 | <b>Element Type:</b> Line - Styled  |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                          | <b>Element Name:</b> PaperWhite_0.45mmSolidLine                          | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                                                                                                                                                         | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                          | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                                                                                                                                                 | <b>Repeating Point Interval:</b> Initial offset: 2.95mm after that 6.4mm |                                  |                                     |

**L00206**

|                                                                                                                                |                                                                                                                           |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeNon-electricNon-use)                                                        |                                                                                                                           | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Black 0.15mm wt 1.5mm long tick repeating |                                                                                                                           |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered and 90 degrees to line and centered with in the dash.                            |                                                                                                                           |                                  |                                     |
| <b>Line Style:</b>                                                                                                             | <b>Element Name:</b><br>Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                            | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                        | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |

**L00207**

|                                                                                                                                    |                                                                                                                                                                                                     |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NormalGaugeElectricNon-use)                                                                |                                                                                                                                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 1.5mm long ) and 0.5mm Dots |                                                                                                                                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is centered and 90 degrees to line. Bottom of Dot is 0.75mm from the center of the line            |                                                                                                                                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                                 | <b>Element Name:</b><br>Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                                                                                                      | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                            | <b>Element Name:</b> Black_0.15mm-1.5mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm                                                                           | <b>Element Reference:</b> P00044 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                        | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                        | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00208**

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeElectricNon-use)                                                                                           |                                                                                                                                                                                                     | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 0.75mm long ) and 0.5mm Dots                           |                                                                                                                                                                                                     |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is based 90 degrees to line and set alternate on either side of the line. Bottom of Dot is 0.75mm from the center of the line |                                                                                                                                                                                                     |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                            | <b>Element Name:</b><br>Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                                                                                                      | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                       | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm                                                                          | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |
| <b>2nd Repeating Point:</b>                                                                                                                                   | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 2.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |
| <b>3rd Repeating Point:</b>                                                                                                                                   | <b>Element Name:</b> Black_0.5mmFilledDot<br><b>Repeating Point Interval:</b> Initial offset: 3.2mm after that 12.8mm. Dots are placed on every other tick on the north/west most side of the track | <b>Element Reference:</b> P00049 | <b>Element Type:</b> Point - Simple |

**L00209**

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|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_RailwaySpur (NarrowGaugeNon-electricNon-use)                                              |                                                                                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap) with Ticks (0.15mm wt, 0.75mm long ) |                                                                                                                            |                                  |                                     |
| <b>Miscellaneous Note:</b> Tick is based 90 degrees to line and ticks alternate on either side of the line.          |                                                                                                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                                   | <b>Element Name:</b><br>Black_0.15mm-5.4mmLenDash-1.0mmGapLine                                                             | <b>Element Reference:</b> L00205 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                              | <b>Element Name:</b> Black_0.15mm-0.75mmLenTick<br><b>Repeating Point Interval:</b> Initial offset: 2.7mm after that 6.4mm | <b>Element Reference:</b> P00038 | <b>Element Type:</b> Point - Simple |

**L00212**

|                                                                                                                         |                                                 |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Wall                                                                                         |                                                 | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line (0.15mm wt) with Black 0.45mm wt 0.35mm long tick repeating along the line. |                                                 |                                  |                                     |
| <b>Miscellaneous Note:</b> Ticks are centered on the line.                                                              |                                                 |                                  |                                     |
| <b>Line Style:</b>                                                                                                      | <b>Element Name:</b> Black_0.15mmSolidLine      | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                 | <b>Element Name:</b> Black_0.45mm-0.35mmLenTick | <b>Element Reference:</b> P00149 | <b>Element Type:</b> Point - Simple |
| <b>Repeating Point Interval:</b> Initial offset: 1.0mm after that 2.0mm spacing between ticks.                          |                                                 |                                  |                                     |

**L00216**

|                                                                                                                                                |                                                                    |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_SteepTerrain_LessThanContour                                                                                 |                                                                    | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.2mm Dashed Line (0.2mm wt, 3mm dash, 0.5mm gap) with five Dk-Brown1815_0.1mm wt-0.5mmLenTicks on each dash. |                                                                    |                                  |                                     |
| <b>Line Style:</b>                                                                                                                             | <b>Element Name:</b><br>Dk-Brown1815_0.2mm-3mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00215 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                        | <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick               | <b>Element Reference:</b> P00065 | <b>Element Type:</b> Point - Simple |
| <b>Repeating Point Interval:</b> Total of five ticks are placed 90 degrees on each dash spaced at 0.5mm, 1.0mm, 1.5 mm, 2.0mm, 2.5mm.          |                                                                    |                                  |                                     |

**L00223**

|                                                                                                                                                                                                                                                    |                                                   |                                  |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_AWHS_WideMedian_Usable                                                                                                                                                                                                   |                                                   | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 1.45mm Solid Line, Dk-Brown1815 1.15mm Solid Line, Black 0.55mm Solid Line, and PaperWhite 0.25mm Solid Line combined                                                                                                    |                                                   |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 4 lines combined together form the double cased line. Display Level: Bottom (1):Black 1.45mm Solid Line, (2):Dk-Brown1815 1.15mm Solid Line, (3):Black 0.55m Solid Line, Top (4):PaperWhite 0.25mm Solid Line. |                                                   |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                 | <b>Element Name:</b> Black_1.45mmSolidLine        | <b>Element Reference:</b> L00219 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                             | <b>Element Name:</b> Dk-Brown1815_1.15mmSolidLine | <b>Element Reference:</b> L00220 | <b>Element Type:</b> Line - Simple |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                             | <b>Element Name:</b> Black_0.55mmSolidLine        | <b>Element Reference:</b> L00221 | <b>Element Type:</b> Line - Simple |
| <b>4th Line Style:</b>                                                                                                                                                                                                                             | <b>Element Name:</b> PaperWhite_0.25mmSolidLine   | <b>Element Reference:</b> L00222 | <b>Element Type:</b> Line - Simple |

**L00228**

**Element Name:** Road\_AWHS\_WideMedian\_NotUsable **Color Token:** Dk-Brown1815

**Description:** PaperWhite 1.45mm Solid Line, Black 1.45mm 2.5mm Dashed 0.5mm Gap Line, Dk-Brown1815 1.15mm 2.5mm Dashed 0.5mm Gap Line, Black 0.55mm 2.5mm Dashed 0.5mm Gap Line, and PaperWhite 0.25mm Solid Line combined

**Miscellaneous Note:** Total of 5 lines combined together form the double cased line. Display Level: Bottom (1):PaperWhite 1.45mm Line, (2):Black\_1.45mm\_2.5mmDashedLine, (3):Dk-Brown1815\_1.15mm\_2.5mmDashedLine, (4):Black\_0.55m\_2.5mmDashedLine, Top (5):PaperWhite 0.25mm Line.

|                        |                                                                      |                                  |                                    |
|------------------------|----------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Line Style:</b>     | <b>Element Name:</b> PaperWhite_1.45mmSolidLine                      | <b>Element Reference:</b> L00224 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b> | <b>Element Name:</b><br>Black_1.45mm_2.5mmDashed-0.5mmGapLine        | <b>Element Reference:</b> L00225 | <b>Element Type:</b> Line - Simple |
| <b>3rd Line Style:</b> | <b>Element Name:</b><br>Dk-Brown1815_1.15mm_2.5mmDashed-0.5mmGapLine | <b>Element Reference:</b> L00226 | <b>Element Type:</b> Line - Simple |
| <b>4th Line Style:</b> | <b>Element Name:</b><br>Black_0.55mm_2.5mmDashed-0.5mmGapLine        | <b>Element Reference:</b> L00227 | <b>Element Type:</b> Line - Simple |

**L00229**

**Element Name:** Black\_0.6mm\_2.5mmDashed-0.5mmGap\_CasedLine **Color Token:** Black

**Description:** PaperWhite 0.6mm Solid Line, Black 0.6mm 2.5mm Len Dash 0.5mm Gap Line, PaperWhite 0.3mm Solid Line combined

**Miscellaneous Note:** Total of 3 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.6mm Solid Line, (2):Black\_0.6mm-2.5mmLenDash-0.5mmGapLine, Top (3):PaperWhite 0.3mm Solid Line.

|                        |                                                               |                                  |                                    |
|------------------------|---------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Line Style:</b>     | <b>Element Name:</b> PaperWhite_0.6mmSolidLine                | <b>Element Reference:</b> L00182 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b> | <b>Element Name:</b><br>Black_0.6mm-2.5mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00163 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b> | <b>Element Name:</b> PaperWhite_0.3mmSolidLine                | <b>Element Reference:</b> L00166 | <b>Element Type:</b> Line - Simple |

**L00249**

|                                                                                                                                                                           |                                                                                                                  |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_Aqueduct_with_Qanats                                                                                                                            |                                                                                                                  | <b>Color Token:</b> Cyan         |                                     |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) with repeating Cyan open circles (0.15mm wt, 1.0mm diameter, paperwhite fill) along the line |                                                                                                                  |                                  |                                     |
| <b>Line Style:</b>                                                                                                                                                        | <b>Element Name:</b><br>Cyan_0.2mm-1mmLenDash-0.5mmGapLine                                                       | <b>Element Reference:</b> L00040 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                                                   | <b>Element Name:</b> Cyan_1.0mmOpenCircle<br><b>Repeating Point Interval:</b> 6.0mm spacing between open circles | <b>Element Reference:</b> P00057 | <b>Element Type:</b> Point - Simple |
| <b>Fix Point at Start of Line:</b>                                                                                                                                        | <b>Element Name:</b> Cyan_1.0mmOpenCircle                                                                        | <b>Element Reference:</b> P00057 | <b>Element Type:</b> Point - Simple |

**L00254**

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|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------|------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_AdminBoundary_Other                                                   |                                                                | <b>Color Token:</b> Dk-Brown1815-42 |                                    |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line with a Dk-Brown1815-42 2.0mm Screened Line overprint |                                                                |                                     |                                    |
| <b>Miscellaneous Note:</b> Dk-Brown1815-42 screened line is centered on Dk-Brown1815 dashed line.       |                                                                |                                     |                                    |
| <b>Line Style:</b>                                                                                      | <b>Element Name:</b><br>Dk-Brown1815_0.5mm-2-1-2-1-7-1DashLine | <b>Element Reference:</b> L00253    | <b>Element Type:</b> Line - Styled |
| <b>2nd Line Style:</b>                                                                                  | <b>Element Name:</b> Dk-Brown1815-42_2.0mmScreenedLine         | <b>Element Reference:</b> L00126    | <b>Element Type:</b> Line - Simple |

**L00261**

|                                                                                                                                                  |                                                                                                                                                                       |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Dk-Brown1815_LessThanContour                                                                                                |                                                                                                                                                                       | <b>Color Token:</b> Dk-Brown1815 |                                     |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3mm dash, 0.5mm gap) with two Dk-Brown1815_0.15mm wt-0.5mmLenTicks on each dash. |                                                                                                                                                                       |                                  |                                     |
| <b>Line Style:</b>                                                                                                                               | <b>Element Name:</b><br>Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine                                                                                                   | <b>Element Reference:</b> L00242 | <b>Element Type:</b> Line - Styled  |
| <b>Repeating Point:</b>                                                                                                                          | <b>Element Name:</b> Dk-Brown1815_0.15mm-0.5mmLenTick<br><b>Repeating Point Interval:</b> Two ticks are placed centered on the dash at 90 degrees spaced 1.5mm apart. | <b>Element Reference:</b> P00174 | <b>Element Type:</b> Point - Simple |

**L00278**

|                                                                                                                                                                                                     |                                                    |                                  |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_Airspace_ADIZ                                                                                                                                                          |                                                    | <b>Color Token:</b> Blue072      |                                    |
| <b>Description:</b> Blue072 0.25mm Solid Line and a 2.5mm Width AP-98 (area pattern 98) Line combined                                                                                               |                                                    |                                  |                                    |
| <b>Miscellaneous Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the AP-98 filled line is offset 0.375 mm to the inside of the surface's perimeter. |                                                    |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                  | <b>Element Name:</b> Blue072_0.25mmSolidLine       | <b>Element Reference:</b> L00276 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                              | <b>Element Name:</b> Blue072_2.5mm-Width-AP-98Line | <b>Element Reference:</b> L00277 | <b>Element Type:</b> Line - Simple |

**L00280**

|                                                                                                                                                                                                            |                                                         |                                  |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Blue072_BufferZone                                                                                                                                                                    |                                                         | <b>Color Token:</b> Blue072      |                                    |
| <b>Description:</b> Blue072 0.25mm Solid Line with a Blue072 2.5mm Dashed Line (2.5mm width, 25mm dash, 13mm gap) filled with AP-98 (area pattern 98) combined                                             |                                                         |                                  |                                    |
| <b>Miscellaneous Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the AP-98 dashed filled line is offset 0.375 mm to the inside of the surface's perimeter. |                                                         |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                         | <b>Element Name:</b> Blue072_0.25mmSolidLine            | <b>Element Reference:</b> L00276 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                     | <b>Element Name:</b> Blue072_2.5mm-25mmLenDashAP-98Line | <b>Element Reference:</b> L00279 | <b>Element Type:</b> Line - Simple |

**L00296**

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|
| <b>Element Name:</b> Blue072_Airspace_SUAS_MOA                                                                                                                                                  |  | <b>Color Token:</b> Blue072 |  |
| <b>Description:</b> Blue072 0.25mm Solid Line and a 2.5mm Blue072-31 Screened Line combined                                                                                                     |  |                             |  |
| <b>Miscellaneous Note:</b> The solid line is centered on the perimeter of the surface geometry and the center of the screened line is offset 0.375 mm to the inside of the surface's perimeter. |  |                             |  |

**L00323**

|                                                                                                                                       |                                            |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_0.15mmSolidLine-0.35mmDots                                                                                 |                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.15mm Solid Line with repeating Black 0.35mm diameter filled dots centered along the line at 5.0mm spacing |                                            |                                  |                                     |
| <b>Line Style:</b>                                                                                                                    | <b>Element Name:</b> Black_0.15mmSolidLine | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                                               | <b>Element Name:</b> Black_0.35mmFilledDot | <b>Element Reference:</b> P00239 | <b>Element Type:</b> Point - Simple |
|                                                                                                                                       | <b>Repeating Point Interval:</b> 5.0mm     |                                  |                                     |

**L00343**

|                                                                                                                                                                               |                                                   |                                  |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_Usable_NoMedian_2Lane                                                                                                                   |                                                   | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 0.65mm Solid Line and Dk-Brown1815 0.45mm Solid Line combined                                                                                       |                                                   |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 2 lines combined together form the cased line. Display Level: Bottom (1):Black 0.65mm Solid Line, Top (2):Dk-Brown1815 0.45mm Solid Line. |                                                   |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                            | <b>Element Name:</b> Black_0.65mmSolidLine        | <b>Element Reference:</b> L00341 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                        | <b>Element Name:</b> Dk-Brown1815_0.45mmSolidLine | <b>Element Reference:</b> L00342 | <b>Element Type:</b> Line - Simple |

**L00345**

|                                                                                                                                                                                                                                   |                                                                    |                                  |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_LooseSurface_Usable_NoMedian_2Lane                                                                                                                                                                      |                                                                    | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> Black 0.65mm Solid Line, PaperWhite 0.45mm Solid Line and Dk-Brown1815 0.45mm 3.0mm Len Dash 1.5mm Gap Line combined                                                                                          |                                                                    |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 3 lines combined together form the cased line. Display Level: Bottom (1):Black 0.65mm Solid Line, (2):PaperWhite 0.45mm Solid Line, Top (3):Dk-Brown1815 0.45mm-3.0mm Len Dash-1.5mm Gap Line |                                                                    |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                | <b>Element Name:</b> Black_0.65mmSolidLine                         | <b>Element Reference:</b> L00341 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                            | <b>Element Name:</b> PaperWhite_0.45mmSolidLine                    | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple |
| <b>3rd Line Style:</b>                                                                                                                                                                                                            | <b>Element Name:</b> Dk-Brown1815_0.45mm-3.0mmLenDash-1.5mmGapLine | <b>Element Reference:</b> L00344 | <b>Element Type:</b> Line - Styled |

**L00349**

|                                                                                                                                                                                                                                                                                         |                                                                    |                                  |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Element Name:</b> Road_HardSurface_NotUsable_NoMedian_2Lane                                                                                                                                                                                                                          |                                                                    | <b>Color Token:</b> Dk-Brown1815 |                                    |
| <b>Description:</b> PaperWhite 0.65mm Solid Line, Black 0.65mm 2.5mm Len Dash 0.5mm Gap Line and Dk-Brown1815 0.45mm 2.5mm Len Dash 0.5mm Gap Line combined                                                                                                                             |                                                                    |                                  |                                    |
| <b>Miscellaneous Note:</b> Total of 3 lines combined together form the cased line. Display Level:Bottom (1):PaperWhite 0.65mm Solid Line, (2):Black_0.65mm-2.5mmLenDash-0.5mmGapLine, Top (3):Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine. Gaps are coincident between the two lines. |                                                                    |                                  |                                    |
| <b>Line Style:</b>                                                                                                                                                                                                                                                                      | <b>Element Name:</b> PaperWhite_0.65mmSolidLine                    | <b>Element Reference:</b> L00346 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b>                                                                                                                                                                                                                                                                  | <b>Element Name:</b> Black_0.65-2.5mmLenDash-0.5mmGapLine          | <b>Element Reference:</b> L00347 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b>                                                                                                                                                                                                                                                                  | <b>Element Name:</b> Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine | <b>Element Reference:</b> L00348 | <b>Element Type:</b> Line - Styled |

**L00352**

**Element Name:** Road\_LooseSurface\_NotUsable\_NoMedian\_2Lane **Color Token:** Dk-Brown1815

**Description:** PaperWhite 0.65mm Solid Line, Black 0.65mm 3.0mm Len Dash 1.5mm Gap Line, PaperWhite 0.45mm Solid Line, and Dk-Brown1815 0.45mm-3-3-1.5-1.5-1.5-3mm Dashed Line combined

**Miscellaneous Note:** Total of 4 lines combined together form the cased line. Display Level: Bottom (1):PaperWhite 0.8mm Solid Line, (2):Black\_0.8mm-3.0mmLenDash-1.5mmGapLine, (3):PaperWhite 0.5mm Line, Top (4):Dk-Brown1815\_0.5mm-3-3-1.5-1.5-1.5-3DashLine.

|                        |                                                                    |                                  |                                    |
|------------------------|--------------------------------------------------------------------|----------------------------------|------------------------------------|
| <b>Line Style:</b>     | <b>Element Name:</b> PaperWhite_0.65mmSolidLine                    | <b>Element Reference:</b> L00346 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b> | <b>Element Name:</b> Black_0.65mm-3.0mmLenDash-1.5mmGapLine        | <b>Element Reference:</b> L00350 | <b>Element Type:</b> Line - Styled |
| <b>3rd Line Style:</b> | <b>Element Name:</b> PaperWhite_0.45mmSolidLine                    | <b>Element Reference:</b> L00231 | <b>Element Type:</b> Line - Simple |
| <b>4th Line Style:</b> | <b>Element Name:</b> Dk-Brown1815_0.45mm-3-3-1.5-1.5-1.5-3DashLine | <b>Element Reference:</b> L00351 | <b>Element Type:</b> Line - Styled |

**L00357**

**Element Name:** Black\_ProtectionStructure **Color Token:** Black

**Description:** Black 1.5mm Solid Line (1.5mm wt) with a Black 1.1mm (1.1mm wt) LP15 Fill Line centered inside

**Miscellaneous Note:** The Black 1.5mm solid line combined with the 1.1mm width LP15 filled line placed inside form a 0.2mm lineweight outline with a total width of 1.5mm

|                        |                                               |                                  |                                    |
|------------------------|-----------------------------------------------|----------------------------------|------------------------------------|
| <b>Line Style:</b>     | <b>Element Name:</b> Black_1.5mmSolidLine     | <b>Element Reference:</b> L00365 | <b>Element Type:</b> Line - Simple |
| <b>2nd Line Style:</b> | <b>Element Name:</b> Black_1.1mm_LP15FillLine | <b>Element Reference:</b> L00356 | <b>Element Type:</b> Line - Simple |

**L00358**

**Element Name:** Black\_0.15mmRailway-Yard **Color Token:** Black

**Description:** Black 0.15mm Solid Line with Black Ticks (0.15mm wt, 1.0mm long) as a perimeter, with the same symbol running through the area spaced 0.4mm

**Miscellaneous Note:** Tick is centered and 90 degrees to line

|                         |                                                |                                  |                                     |
|-------------------------|------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Line Style:</b>      | <b>Element Name:</b> Black_0.15mmSolidLine     | <b>Element Reference:</b> L00008 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b> | <b>Element Name:</b> Black_0.15mm-1.0mmLenTick | <b>Element Reference:</b> P00043 | <b>Element Type:</b> Point - Simple |
|                         | <b>Repeating Point Interval:</b> 6.4mm         |                                  |                                     |

**L00359**

|                                                                                                             |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIce-MoundIndex                                                                |                                              |                                  | <b>Color Token:</b> Cyan            |
| <b>Description:</b> Cyan 0.2mm Solid Line with repeating Cyan 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                              |                                  |                                     |
| <b>Line Style:</b>                                                                                          | <b>Element Name:</b> Cyan_0.2mmSolidLine     | <b>Element Reference:</b> L00015 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                     | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|                                                                                                             | <b>Repeating Point Interval:</b> 2.0mm       |                                  |                                     |

**L00360**

|                                                                                                             |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Cyan_SnowIce-MoundIntermediate                                                         |                                              |                                  | <b>Color Token:</b> Cyan            |
| <b>Description:</b> Cyan 0.1mm Solid Line with repeating Cyan 0.1mm wt 0.5 long ticks (2.0mm tick interval) |                                              |                                  |                                     |
| <b>Line Style:</b>                                                                                          | <b>Element Name:</b> Cyan_0.1mmSolidLine     | <b>Element Reference:</b> L00108 | <b>Element Type:</b> Line - Simple  |
| <b>Repeating Point:</b>                                                                                     | <b>Element Name:</b> Cyan_0.1mm-0.5mmLenTick | <b>Element Reference:</b> P00055 | <b>Element Type:</b> Point - Simple |
|                                                                                                             | <b>Repeating Point Interval:</b> 2.0mm       |                                  |                                     |

**Line - Simple****L00005****Element Name:** Blue072\_0.4mmSolidLine**Color Token:** Blue072**Description:** Blue072 0.4mm Solid Line (0.4mm wt)**Line Weight:** 0.4mm**L00006****Element Name:** Blue072\_0.73mmSolidLine**Color Token:** Blue072**Description:** Blue072 0.73mm Solid Line (0.73mm wt)**Line Weight:** 0.73mm**L00007****Element Name:** Black\_0.1mmSolidLine**Color Token:** Black**Description:** Black 0.1mm Solid Line (0.1mm wt)**Line Weight:** 0.1mm**L00008****Element Name:** Black\_0.15mmSolidLine**Color Token:** Black**Description:** Black 0.15mm Solid Line (0.15mm wt)**Line Weight:** 0.15mm**L00009****Element Name:** Black\_0.2mmSolidLine**Color Token:** Black**Description:** Black 0.2mm Solid Line (0.2mm wt)**Line Weight:** 0.2mm**L00011****Element Name:** Black\_0.3mmSolidLine**Color Token:** Black**Description:** Black 0.3mm Solid Line (0.3mm wt)**Line Weight:** 0.3mm

**L00013****Element Name:** Black\_0.4mmSolidLine**Color Token:** Black**Description:** Black 0.4mm Solid Line (0.4mm wt)**Line Weight:** 0.4mm**L00014****Element Name:** Black\_0.5mmSolidLine**Color Token:** Black**Description:** Black 0.5mm Solid Line (0.5mm wt)**Line Weight:** 0.5mm**L00015****Element Name:** Cyan\_0.2mmSolidLine**Color Token:** Cyan**Description:** Cyan 0.2mm Solid Line (0.2mm wt)**Line Weight:** 0.2mm**L00016****Element Name:** Cyan\_0.3mmSolidLine**Color Token:** Cyan**Description:** Cyan 0.3mm Solid Line (0.3mm wt)**Line Weight:** 0.3mm**L00017****Element Name:** Cyan\_0.4mmSolidLine**Color Token:** Cyan**Description:** Cyan 0.4mm Solid Line (0.4mm wt)**Line Weight:** 0.4mm**L00019****Element Name:** Black\_0.3mmSolidDoubleLine**Color Token:** Black**Description:** Two parallel Black 0.3mm Solid Lines (0.3mm wt)**Miscellaneous Note:** Spacing is variable to the width of the overpassing transportation feature**Line Weight:** 0.3mm

**L00023**

**Element Name:** Dk-Brown1815\_0.2mmSolidLine  
**Description:** Dk-Brown1815 0.2mm Solid Line (0.2mm wt)  
**Line Weight:** 0.2mm

**Color Token:** Dk-Brown1815

**L00024**

**Element Name:** Dk-Brown1815\_0.25mmSolidLine  
**Description:** Dk-Brown1815 0.25mm Solid Line (0.25mm wt)  
**Line Weight:** 0.25mm

**Color Token:** Dk-Brown1815

**L00105**

**Element Name:** Dk-Brown1815\_0.3mmSolidLine  
**Description:** Dk-Brown1815 0.3mm Solid Line (0.3mm wt)  
**Line Weight:** 0.3mm

**Color Token:** Dk-Brown1815

**L00107**

**Element Name:** Dk-Brown1815\_0.1mmSolidLine  
**Description:** Dk-Brown1815 0.1mm Solid Line (0.1mm wt)  
**Line Weight:** 0.1mm

**Color Token:** Dk-Brown1815

**L00108**

**Element Name:** Cyan\_0.1mmSolidLine  
**Description:** Cyan 0.1mm Solid Line (0.1mm wt)  
**Line Weight:** 0.1mm

**Color Token:** Cyan

**L00123**

**Element Name:** Dk-Brown1815-54\_2.0mmScreenedLine  
**Description:** Dk-Brown1815-54 2.0mm Screened Line (2.0mm wt. 60 degree angle)  
**Line Weight:** 2.0mm

**Color Token:** Dk-Brown1815-54

**L00126**

**Element Name:** Dk-Brown1815-42\_2.0mmScreenedLine  
**Description:** Dk-Brown1815-42 2.0mm Screened Line (2.0mm wt. 60 degree angle)  
**Line Weight:** 2.0mm

**Color Token:** Dk-Brown1815-42

**L00153**

**Element Name:** Black\_0.6mmSolidLine  
**Description:** Black 0.6mm Solid Line (0.6mm wt)  
**Line Weight:** 0.6mm

**Color Token:** Black

**L00155**

**Element Name:** Black\_0.8mmSolidLine  
**Description:** Black 0.8mm Solid Line (0.8mm wt)  
**Line Weight:** 0.8mm

**Color Token:** Black

**L00156**

**Element Name:** Dk-Brown1815\_0.5mmSolidLine  
**Description:** Dk-Brown1815 0.5mm Solid Line (0.5mm wt)  
**Line Weight:** 0.5mm

**Color Token:** Dk-Brown1815

**L00158**

**Element Name:** Black\_1.0mmSolidLine  
**Description:** Black 1.0mm Solid Line (1.0mm wt)  
**Line Weight:** 1.0mm

**Color Token:** Black

**L00159**

**Element Name:** Dk-Brown1815\_0.6mmSolidLine  
**Description:** Dk-Brown1815 0.6mm Solid Line (0.6mm wt)  
**Line Weight:** 0.6mm

**Color Token:** Dk-Brown1815

**L00166**

**Element Name:** PaperWhite\_0.3mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 0.3mm Solid Line (0.3mm wt)

**Line Weight:** 0.3mm

**L00181**

**Element Name:** Blue072-31\_2.5mmScreenedLine

**Color Token:** Blue072-31

**Description:** Blue072-31 2.5mm Screened Line (2.5mm wt)

**Line Weight:** 2.5mm

**L00182**

**Element Name:** PaperWhite\_0.6mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 0.6mm Solid Line (0.6mm wt)

**Line Weight:** 0.6mm

**L00183**

**Element Name:** PaperWhite\_0.8mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 0.8mm Solid Line (0.8mm wt)

**Line Weight:** 0.8mm

**L00184**

**Element Name:** PaperWhite\_1.0mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 1.0mm Solid Line (1.0mm wt)

**Line Weight:** 1.0mm

**L00186**

**Element Name:** PaperWhite\_0.5mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 0.5mm Solid Line (0.5mm wt)

**Line Weight:** 0.5mm

**L00195**

**Element Name:** Dk-Brown1815\_0.4mmSolidLine  
**Description:** Dk-Brown1815 0.4mm Solid Line (0.4mm wt)  
**Line Weight:** 0.4mm

**Color Token:** Dk-Brown1815

**L00217**

**Element Name:** Blue072\_0.1mmSolidLine  
**Description:** Blue072 0.1mm Solid Line (0.1mm wt)  
**Line Weight:** 0.1mm

**Color Token:** Blue072

**L00219**

**Element Name:** Black\_1.45mmSolidLine  
**Description:** Black 1.45mm Solid Line (1.45mm wt)  
**Line Weight:** 1.45mm

**Color Token:** Black

**L00220**

**Element Name:** Dk-Brown1815\_1.15mmSolidLine  
**Description:** Dk-Brown1815 1.15mm Solid Line (1.15mm wt)  
**Line Weight:** 1.15mm

**Color Token:** Dk-Brown1815

**L00221**

**Element Name:** Black\_0.55mmSolidLine  
**Description:** Black 0.55mm Solid Line (0.55mm wt)  
**Line Weight:** 0.55mm

**Color Token:** Black

**L00222**

**Element Name:** PaperWhite\_0.25mmSolidLine  
**Description:** PaperWhite 0.25mm Solid Line (0.25mm wt)  
**Line Weight:** 0.25mm

**Color Token:** PaperWhite

**L00224**

**Element Name:** PaperWhite\_1.45mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 1.45mm Solid Line (1.45mm wt)

**Line Weight:** 1.45mm

**L00225**

**Element Name:** Black\_1.45mm\_2.5mmDashed-0.5mmGapLine

**Color Token:** Black

**Description:** Black Dashed Line (1.45mm wt, 2.5mm dash, 0.5mm gap)

**Line Weight:** 1.45mm

**L00226**

**Element Name:** Dk-Brown1815\_1.15mm\_2.5mmDashed-0.5mmGapLine

**Color Token:** Dk-Brown1815

**Description:** Dk-Brown1815 Dashed Line (1.15mm wt, 2.5mm dash, 0.5mm gap)

**Line Weight:** 1.15mm

**L00227**

**Element Name:** Black\_0.55mm\_2.5mmDashed-0.5mmGapLine

**Color Token:** Black

**Description:** Black Dashed Line (0.55mm wt, 2.5mm dash, 0.5mm gap)

**Line Weight:** 0.55mm

**L00231**

**Element Name:** PaperWhite\_0.45mmSolidLine

**Color Token:** PaperWhite

**Description:** PaperWhite 0.45mm Solid Line (0.45mm wt)

**Line Weight:** 0.45mm

**L00232**

**Element Name:** Black\_0.75mmSolidLine

**Color Token:** Black

**Description:** Black 0.75mm Solid Line (0.75mm wt)

**Line Weight:** 0.75mm

**L00240**

**Element Name:** Dk-Brown1815\_0.15mmSolidLine  
**Description:** Dk-Brown1815 0.15mm Solid Line (0.15mm wt)  
**Line Weight:** 0.15mm

**Color Token:** Dk-Brown1815

**L00241**

**Element Name:** Dk-Brown1815\_0.15mmSolidDoubleLines  
**Description:** Two parallel Dk-Brown1815 0.15mm Solid Lines (0.15mm wt)  
**Miscellaneous Note:** Spacing is variable to the width of the overpassing feature  
**Line Weight:** 0.15mm

**Color Token:** Dk-Brown1815

**L00245**

**Element Name:** Cyan\_0.15mmSolidLine  
**Description:** Cyan 0.15mm Solid Line (0.15mm wt)  
**Line Weight:** 0.15mm

**Color Token:** Cyan

**L00247**

**Element Name:** Dk-Brown1815\_0.3mmDoubleLine  
**Description:** Two parallel Dk-Brown1815 0.3mm Solid Lines (0.3mm wt)  
**Miscellaneous Note:** Spacing is variable to the width of the overpassing transportation feature  
**Line Weight:** 0.3mm

**Color Token:** Dk-Brown1815

**L00248**

**Element Name:** Cyan\_0.25mmSolidLine  
**Description:** Cyan 0.25mm Solid Line (0.25mm wt)  
**Line Weight:** 0.25mm

**Color Token:** Cyan

**L00276**

**Element Name:** Blue072\_0.25mmSolidLine  
**Description:** Blue072 0.25mm Solid Line (0.25mm wt)  
**Line Weight:** 0.25mm

**Color Token:** Blue072

**L00277****Element Name:** Blue072\_2.5mm-Width-AP-98Line**Color Token:** Blue072**Description:** Blue072 2.5mm width line filled with AP-98 (area pattern 98)**Miscellaneous Note:** The Blue072 2.5mm width line is filled with AP-98. See Element: Blue072\_AP98\_Fill in Annex I**Line Weight:** 2.5mm**L00279****Element Name:** Blue072\_2.5mm-25mmLenDashAP-98Line**Color Token:** Blue072**Description:** Blue072 2.5mm Dashed Line (2.5mm width, 25mm dash, 13mm gap) filled with AP-98 (area pattern 98)**Miscellaneous Note:** Blue072 2.5mm width 25mm length dash is filled with AP-98. See Element: Blue072\_AP98\_Fill in Annex I**Line Weight:** 2.5mm**L00298****Element Name:** Blue072\_0.85mmSolidLine**Color Token:** Blue072**Description:** Blue072 0.85mm Solid Line (0.85mm wt)**Line Weight:** 0.85mm**L00341****Element Name:** Black\_0.65mmSolidLine**Color Token:** Black**Description:** Black 0.65mm Solid Line (0.65mm wt)**Line Weight:** 0.65mm**L00342****Element Name:** Dk-Brown1815\_0.45mmSolidLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.45mm Solid Line (0.45mm wt)**Line Weight:** 0.45mm**L00346****Element Name:** PaperWhite\_0.65mmSolidLine**Color Token:** PaperWhite**Description:** PaperWhite 0.65mm Solid Line (0.65mm wt)**Line Weight:** 0.65mm

**L00354**

**Element Name:** Lt-Green\_0.2mmSolidLine

**Color Token:** Lt-Green

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.2mm Solid Line (0.2mm wt)

**Line Weight:** 0.2mm

**L00355**

**Element Name:** Blue072\_0.3mmSolidLine

**Color Token:** Blue072

**Description:** Blue072 0.3mm Solid Line (0.3mm wt)

**Line Weight:** 0.3mm

**L00356**

**Element Name:** Black\_1.1mm\_LP15FillLine

**Color Token:** Black

**Description:** Black 1.1mm width Solid Line (1.1mm wt) filled with LP-15 (line pattern 15)

**Miscellaneous Note:** 1.1mm width line filled with Black LP-15. See Element: Black\_LP15\_Fill in Annex I

**Line Weight:** 1.1mm

**L00365**

**Element Name:** Black\_1.5mmSolidLine

**Color Token:** Black

**Description:** Black 1.5mm Solid Line (1.5mm wt)

**Line Weight:** 1.5mm

**Line - Styled**

**L00029**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.1mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.1mm Dashed Line (0.1mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.1mm                                                     | <b>Dash Length:</b> 2.0mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00031**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.2mm-1mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.2mm                                                     | <b>Dash Length:</b> 1.0mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00032**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.2mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.2mm                                                     | <b>Dash Length:</b> 2.0mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00035**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.25mm-3mmLenDash-0.5mmGapLine                       | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 3.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.25mm                                                      | <b>Dash Length:</b> 3.0mm  |
|                                                                                 | <b>Dash Spacing:</b> 0.5mm |

**L00036**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.3mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.3mm                                                     | <b>Dash Length:</b> 2.0mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00039**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.3mm-5.9mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 5.9mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.3mm                                                     | <b>Dash Length:</b> 5.9mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00040**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.2mm-1mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.2mm                                                    | <b>Dash Length:</b> 1.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00041**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.2mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.2mm                                                    | <b>Dash Length:</b> 2.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00042**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.2mm-5mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.2mm Dashed Line (0.2mm wt, 5.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.2mm                                                    | <b>Dash Length:</b> 5.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00045**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.4mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.4mm Dashed Line (0.4mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.4mm                                                    | <b>Dash Length:</b> 2.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00109**

|                                                                                      |                                  |
|--------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.1mm-3mmLenDashLine                               | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.1mm                                                            | <b>Dash Length:</b> 3.0mm        |
|                                                                                      | <b>Dash Spacing:</b> 0.5mm       |

**L00110**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.1mm-3mmLenDashLine                               | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 3.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.1mm                                                    | <b>Dash Length:</b> 3.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

## L00117

**Element Name:** Dk-Brown1815\_0.1mm-1.5mmLenDashLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 1.5mm dash, 0.5mm gap)**Line Weight:** 0.1mm**Dash Length:** 1.5mm**Dash Spacing:** 0.5mm

## L00118

**Element Name:** Cyan\_0.1mm-1.5mmLenDash-0.5mmGapLine**Color Token:** Cyan**Description:** Cyan 0.1mm Dashed Line (0.1mm wt, 1.5mm dash, 0.5mm gap)**Line Weight:** 0.1mm**Dash Length:** 1.5mm**Dash Spacing:** 0.5mm

## L00121

**Element Name:** Black\_0.25mm-6mmLenDashLine**Color Token:** Black**Description:** Black 0.25mm Dashed Line (0.25mm wt, 6.0mm dash, 1.0mm gap)**Line Weight:** 0.25mm**Dash Length:** 6.0mm**Dash Spacing:** 1.0mm

## L00122

**Element Name:** Black\_0.5mm-7mmDash-2x2mmDashLine**Color Token:** Black**Description:** Black 0.5mm Dashed Line (0.5mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps)**Miscellaneous Note:** The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats.**Line Weight:** 0.5mm**Dash Length:** 7.0mm**Dash Spacing:** 1.0mm**2nd Dash Length:** 2.0mm**2nd Dash Spacing:** 1.0mm**3rd Dash Length:** 2.0mm**3rd Dash Spacing:** 1.0mm

## L00125

**Element Name:** Black\_0.3mm-5mmLenDash-1.0mmGapLine**Color Token:** Black**Description:** Black 0.3mm Dashed Line (0.3mm wt, 5.0mm dash, 1.0mm gap)**Line Weight:** 0.3mm**Dash Length:** 5.0mm**Dash Spacing:** 1.0mm

## L00128

**Element Name:** Black\_0.2mm-6.1mmLenDash-2.5mmGapLine**Color Token:** Black**Description:** Black 0.2mm Dashed Line (0.2mm wt, 6.1mm dash, 2.5mm gap)**Line Weight:** 0.2mm**Dash Length:** 6.1mm**Dash Spacing:** 2.5mm

**L00130**

|                                                                                                                        |                                |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Element Name:</b> Black_0.3mm-7-1-2-1DashLine                                                                       | <b>Color Token:</b> Black      |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash, 2.0mm dash, 1.0mm gaps)                             |                                |
| <b>Miscellaneous Note:</b> The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats. |                                |
| <b>Line Weight:</b> 0.3mm                                                                                              | <b>Dash Length:</b> 7.0mm      |
|                                                                                                                        | <b>Dash Spacing:</b> 1.0mm     |
|                                                                                                                        | <b>2nd Dash Length:</b> 2.0mm  |
|                                                                                                                        | <b>2nd Dash Spacing:</b> 1.0mm |

**L00133**

|                                                                    |                           |
|--------------------------------------------------------------------|---------------------------|
| <b>Element Name:</b> Black_0.3mm-7mmLenDash                        | <b>Color Token:</b> Black |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash) |                           |
| <b>Line Weight:</b> 0.3mm                                          | <b>Dash Length:</b> 7.0mm |
|                                                                    | <b>Dash Spacing:</b>      |

**L00144**

|                                                                                     |                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Element Name:</b> Black_Dotted-Line                                              | <b>Color Token:</b> Black                  |
| <b>Description:</b> Black 0.25mm diameter filled dots repeating with 0.75mm spacing |                                            |
| <b>Line Weight:</b>                                                                 | <b>Dash Length:</b>                        |
| -----                                                                               |                                            |
| <b>Repeating Point:</b>                                                             | <b>Element Name:</b> Black_0.25mmFilledDot |
|                                                                                     | <b>Element Reference:</b> P00047           |
|                                                                                     | <b>Element Type:</b> Point - Simple        |

**L00163**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.6mm-2.5mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.6mm Dashed Line (0.6mm wt, 2.5mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.6mm                                                     | <b>Dash Length:</b> 2.5mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00164**

|                                                                                      |                                  |
|--------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.3mm-2.5mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.3mm Dashed Line (0.3mm wt, 2.5mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.3mm                                                            | <b>Dash Length:</b> 2.5mm        |
|                                                                                      | <b>Dash Spacing:</b> 0.5mm       |

**L00168****Element Name:** Black\_1.0mm-2.5mmLenDash-0.5mmGapLine**Color Token:** Black**Description:** Black 1.0mm Dashed Line (1.0mm wt, 2.5mm dash, 0.5mm gap)**Line Weight:** 1.0mm**Dash Length:** 2.5mm**Dash Spacing:** 0.5mm**L00169****Element Name:** Dk-Brown1815\_0.6mm-2.5mmLenDash-0.5mmGapLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.6mm Dashed Line (0.6mm wt, 2.5mm dash, 0.5mm gap)**Line Weight:** 0.6mm**Dash Length:** 2.5mm**Dash Spacing:** 0.5mm**L00170****Element Name:** Black\_0.1mm-2.5mmLenDash-0.5mmGapLine**Color Token:** Black**Description:** Black 0.1mm Dashed Line (0.1mm wt, 2.5mm dash, 0.5mm gap)**Line Weight:** 0.1mm**Dash Length:** 2.5mm**Dash Spacing:** 0.5mm**L00172****Element Name:** Black\_0.8-2.5mmLenDash-0.5mmGapLine**Color Token:** Black**Description:** Black 0.8mm Dashed Line (0.8mm wt, 2.5mm dash, 0.5mm gap)**Line Weight:** 0.8mm**Dash Length:** 2.5mm**Dash Spacing:** 0.5mm**L00173****Element Name:** Dk-Brown1815\_0.5mm-2.5mmLenDash-0.5mmGapLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 2.5mm dash, 0.5mm gap)**Line Weight:** 0.5mm**Dash Length:** 2.5mm**Dash Spacing:** 0.5mm**L00175****Element Name:** Black\_0.5mm-3.0mmLenDash-1.5mmGapLine**Color Token:** Black**Description:** Black 0.5mm Dashed Line (0.5mm wt, 3.0mm dash, 1.5mm gap)**Line Weight:** 0.5mm**Dash Length:** 3.0mm**Dash Spacing:** 1.5mm

**L00176**

|                                                                                    |                                  |
|------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.2mm-5mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.2mm Dashed Line (0.2mm wt, 5mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.2mm                                                          | <b>Dash Length:</b> 5.0mm        |
|                                                                                    | <b>Dash Spacing:</b> 0.5mm       |

**L00177**

|                                                                                      |                                  |
|--------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.1mm-5mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.1mm Dashed Line (0.1mm wt, 5.0mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.1mm                                                            | <b>Dash Length:</b> 5.0mm        |
|                                                                                      | <b>Dash Spacing:</b> 0.5mm       |

**L00178**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.1mm-5mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 5.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.1mm                                                    | <b>Dash Length:</b> 5.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00185**

|                                                                                                                                               |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.5mm-3-3-1.5-1.5-3DashLine                                                                                 | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line (0.5mm wt; Dash1: 3.0mm Gap1: 3.0mm; Dash2:1.5mm Gap2: 1.5mm; Dash3: 1.5mm Gap3: 3.0mm)    |                                  |
| <b>Miscellaneous Note:</b> The line style is a 3.0mm dash, 3.0mm gap, 1.5mm dash, 1.5mm gap, 1.5mm dash, 3.0mm gap, then the pattern repeats. |                                  |
| <b>Line Weight:</b> 0.5mm                                                                                                                     | <b>Dash Length:</b> 3.0mm        |
|                                                                                                                                               | <b>Dash Spacing:</b> 3.0mm       |
|                                                                                                                                               | <b>2nd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>2nd Dash Spacing:</b> 1.5mm   |
|                                                                                                                                               | <b>3rd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>3rd Dash Spacing:</b> 3.0mm   |

**L00187**

|                                                                                                                                               |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.3mm-3-3-1.5-1.5-3DashLine                                                                                 | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.3mm Dashed Line (0.3mm wt; Dash1: 3.0mm Gap1: 3.0mm; Dash2: 1.5mm Gap2: 1.5mm; Dash3: 1.5mm Gap3: 3.0mm)   |                                  |
| <b>Miscellaneous Note:</b> The line style is a 3.0mm dash, 3.0mm gap, 1.5mm dash, 1.5mm gap, 1.5mm dash, 3.0mm gap, then the pattern repeats. |                                  |
| <b>Line Weight:</b> 0.3mm                                                                                                                     | <b>Dash Length:</b> 3.0mm        |
|                                                                                                                                               | <b>Dash Spacing:</b> 3.0mm       |
|                                                                                                                                               | <b>2nd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>2nd Dash Spacing:</b> 1.5mm   |
|                                                                                                                                               | <b>3rd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>3rd Dash Spacing:</b> 3.0mm   |

**L00188****Element Name:** Black\_0.8mm-3.0mmLenDash-1.5mmGapLine**Color Token:** Black**Description:** Black 0.8mm Dashed Line (0.8mm wt, 3.0mm dash, 1.5mm gap)**Line Weight:** 0.8mm**Dash Length:** 3.0mm**Dash Spacing:** 1.5mm**L00191****Element Name:** Dk-Brown1815\_0.3mm-3.0mmLenDash-1.5mmGapLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.3mm Dashed Line (0.3mm wt, 3.0mm dash, 1.5mm gap)**Line Weight:** 0.3mm**Dash Length:** 3.0mm**Dash Spacing:** 1.5mm**L00192****Element Name:** Dk-Brown1815\_0.5mm-3.0mmLenDash-1.5mmGapLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 3.0mm dash, 1.5mm gap)**Line Weight:** 0.5mm**Dash Length:** 3.0mm**Dash Spacing:** 1.5mm**L00198****Element Name:** Black\_0.15mm-3.3mmLenDash-0.5mmGapLine**Color Token:** Black**Description:** Black 0.15mm Dashed Line (0.15mm wt, 3.3mm dash, 0.5mm gap)**Line Weight:** 0.15mm**Dash Length:** 3.3mm**Dash Spacing:** 0.5mm**L00205****Element Name:** Black\_0.15mm-5.4mmLenDash-1.0mmGapLine**Color Token:** Black**Description:** Black 0.15mm Dashed Line (0.15mm wt, 5.4mm dash, 1.0mm gap)**Line Weight:** 0.15mm**Dash Length:** 5.4mm**Dash Spacing:** 1.0mm**L00210****Element Name:** Black\_0.1mm-1.0mmLenDash-0.5mmGapLine**Color Token:** Black**Description:** Black 0.1mm Dashed Line (0.1mm wt, 1.0mm dash, 0.5mm gap)**Line Weight:** 0.1mm**Dash Length:** 1.0mm**Dash Spacing:** 0.5mm

**L00213**

|                                                                                     |                            |
|-------------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cased_Black_0.2mm_1mmDashed-0.5mmGapLine                       | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.2mm Cased Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Miscellaneous Note:</b> Cased spacing is 1.3mm (spacing between dashed lines)    |                            |
| <b>Line Weight:</b> 0.2mm                                                           | <b>Dash Length:</b> 1.0mm  |
|                                                                                     | <b>Dash Spacing:</b> 0.5mm |

**L00214**

|                                                                                    |                            |
|------------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cased_Cyan_0.2mm_1mmDashed-0.5mmGapLine                       | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.2mm Cased Dashed Line (0.2mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Miscellaneous Note:</b> Cased spacing is 1.3mm (spacing between dashed lines)   |                            |
| <b>Line Weight:</b> 0.2mm                                                          | <b>Dash Length:</b> 1.0mm  |
|                                                                                    | <b>Dash Spacing:</b> 0.5mm |

**L00215**

|                                                                                    |                                  |
|------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.2mm-3mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.2mm Dashed Line (0.2mm wt, 3mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.2mm                                                          | <b>Dash Length:</b> 3.0mm        |
|                                                                                    | <b>Dash Spacing:</b> 0.5mm       |

**L00230**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.75mm-5.9mmLenDash-0.5mmGapLine                     | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.75mm Dashed Line (0.75mm wt, 5.9mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.75mm                                                      | <b>Dash Length:</b> 5.9mm  |
|                                                                                 | <b>Dash Spacing:</b> 0.5mm |

**L00234**

|                                                                                |                            |
|--------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.15mm-1mmLenDash-0.5mmGapLine                       | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.15mm Dashed Line (0.15mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.15mm                                                     | <b>Dash Length:</b> 1.0mm  |
|                                                                                | <b>Dash Spacing:</b> 0.5mm |

**L00235**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.3mm-1mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.3mm Dashed Line (0.3mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.3mm                                                    | <b>Dash Length:</b> 1.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00237**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.25mm-5.0mmLenDash-1.0mmGapLine                     | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 5.0mm dash, 1.0mm gap) |                            |
| <b>Line Weight:</b> 0.25mm                                                      | <b>Dash Length:</b> 5.0mm  |
|                                                                                 | <b>Dash Spacing:</b> 1.0mm |

**L00239**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.15mm-5mmLenDash-1.3mmGapLine                       | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 5.0mm dash, 1.3mm gap) |                            |
| <b>Line Weight:</b> 0.15mm                                                      | <b>Dash Length:</b> 5.0mm  |
|                                                                                 | <b>Dash Spacing:</b> 1.3mm |

**L00242**

|                                                                                        |                                  |
|----------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.15mm-3mmLenDash-0.5mmGapLine                       | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.15mm Dashed Line (0.15mm wt, 3.0mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.15mm                                                             | <b>Dash Length:</b> 3.0mm        |
|                                                                                        | <b>Dash Spacing:</b> 0.5mm       |

**L00246**

|                                                                              |                            |
|------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Cyan_0.1mm-2mmLenDash-0.5mmGapLine                      | <b>Color Token:</b> Cyan   |
| <b>Description:</b> Cyan 0.1mm Dashed Line (0.1mm wt, 2.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.1mm                                                    | <b>Dash Length:</b> 2.0mm  |
|                                                                              | <b>Dash Spacing:</b> 0.5mm |

**L00252**

|                                                                                                                                               |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Element Name:</b> Black_0.3mm-7-1-2-1-2-1DashLine                                                                                          | <b>Color Token:</b> Black      |
| <b>Description:</b> Black 0.3mm Dashed Line (0.3mm wt, 7.0mm dash, 2-2.0mm dashes, 1.0mm gaps)                                                |                                |
| <b>Miscellaneous Note:</b> The line style is a 7.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, then the pattern repeats. |                                |
| <b>Line Weight:</b> 0.3m                                                                                                                      | <b>Dash Length:</b> 7.0mm      |
|                                                                                                                                               | <b>Dash Spacing:</b> 1.0mm     |
|                                                                                                                                               | <b>2nd Dash Length:</b> 2.0mm  |
|                                                                                                                                               | <b>2nd Dash Spacing:</b> 1.0mm |
|                                                                                                                                               | <b>3rd Dash Length:</b> 2.0mm  |
|                                                                                                                                               | <b>3rd Dash Spacing:</b> 1.0mm |

**L00253**

|                                                                                                                                               |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.5mm-2-1-2-1-7-1DashLine                                                                                   | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.5mm Dashed Line (0.5mm wt, 2-2.0mm dashes, 7.0mm dash, 1.0mm gaps)                                         |                                  |
| <b>Miscellaneous Note:</b> The line style is a 2.0mm dash, 1.0mm gap, 2.0mm dash, 1.0mm gap, 7.0mm dash, 1.0mm gap, then the pattern repeats. |                                  |
| <b>Line Weight:</b> 0.5mm                                                                                                                     | <b>Dash Length:</b> 2.0mm        |
|                                                                                                                                               | <b>Dash Spacing:</b> 1.0mm       |
|                                                                                                                                               | <b>2nd Dash Length:</b> 2.0mm    |
|                                                                                                                                               | <b>2nd Dash Spacing:</b> 1.0mm   |
|                                                                                                                                               | <b>3rd Dash Length:</b> 7.0mm    |
|                                                                                                                                               | <b>3rd Dash Spacing:</b> 1.0mm   |

**L00257**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.15mm-1.0mmLenDash-0.5mmGapLine                     | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.15mm Dashed Line (0.15mm wt, 1.0mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.15mm                                                      | <b>Dash Length:</b> 1.0mm  |
|                                                                                 | <b>Dash Spacing:</b> 0.5mm |

**L00258**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.25mm-2.5mmLenDash-1.0mmGapLine                     | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.25mm Dashed Line (0.25mm wt, 2.5mm dash, 1.0mm gap) |                            |
| <b>Line Weight:</b> 0.25mm                                                      | <b>Dash Length:</b> 2.5mm  |
|                                                                                 | <b>Dash Spacing:</b> 1.0mm |

**L00260**

|                                                            |                                     |
|------------------------------------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Reef                            | <b>Color Token:</b> Black           |
| <b>Description:</b> Black reef arc in a repeating pattern. |                                     |
| <b>Line Weight:</b>                                        | <b>Dash Length:</b>                 |
|                                                            | <b>Dash Spacing:</b>                |
| <b>Repeating Point:</b>                                    | <b>Element Name:</b> Black_ReefArc  |
|                                                            | <b>Element Reference:</b> P00207    |
|                                                            | <b>Element Type:</b> Point - Simple |

**L00324**

|                                                                           |                             |
|---------------------------------------------------------------------------|-----------------------------|
| <b>Element Name:</b> Blue072_0.3mm-3.8mmLenDash-1.2mmGapLine              | <b>Color Token:</b> Blue072 |
| <b>Description:</b> Blue072 Dashed Line (0.3mm wt, 3.8mm dash, 1.2mm gap) |                             |
| <b>Line Weight:</b> 0.3mm                                                 | <b>Dash Length:</b> 3.8mm   |
|                                                                           | <b>Dash Spacing:</b> 1.2mm  |

**L00340**

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.5mm-2.5mmLenDash-0.5mmGapLine                    | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.5mm Dashed Line (0.5mm wt, 2.5mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.5mm                                                     | <b>Dash Length:</b> 2.5mm  |
|                                                                               | <b>Dash Spacing:</b> 0.5mm |

**L00344**

|                                                                                        |                                  |
|----------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.45mm-3.0mmLenDash-1.5mmGapLine                     | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.45mm Dashed Line (0.45mm wt, 3.0mm dash, 1.5mm gap) |                                  |
| <b>Line Weight:</b> 0.45mm                                                             | <b>Dash Length:</b> 3.0mm        |
|                                                                                        | <b>Dash Spacing:</b> 1.5mm       |

**L00347**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.65-2.5mmLenDash-0.5mmGapLine                       | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.65mm Dashed Line (0.65mm wt, 2.5mm dash, 0.5mm gap) |                            |
| <b>Line Weight:</b> 0.65mm                                                      | <b>Dash Length:</b> 2.5mm  |
|                                                                                 | <b>Dash Spacing:</b> 0.5mm |

**L00348**

|                                                                                        |                                  |
|----------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.45mm-2.5mmLenDash-0.5mmGapLine                     | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.45mm Dashed Line (0.45mm wt, 2.5mm dash, 0.5mm gap) |                                  |
| <b>Line Weight:</b> 0.45mm                                                             | <b>Dash Length:</b> 2.5mm        |
|                                                                                        | <b>Dash Spacing:</b> 0.5mm       |

**L00350**

|                                                                                 |                            |
|---------------------------------------------------------------------------------|----------------------------|
| <b>Element Name:</b> Black_0.65mm-3.0mmLenDash-1.5mmGapLine                     | <b>Color Token:</b> Black  |
| <b>Description:</b> Black 0.65mm Dashed Line (0.65mm wt, 3.0mm dash, 1.5mm gap) |                            |
| <b>Line Weight:</b> 0.65mm                                                      | <b>Dash Length:</b> 3.0mm  |
|                                                                                 | <b>Dash Spacing:</b> 1.5mm |

**L00351**

|                                                                                                                                               |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.45mm-3-3-1.5-1.5-1.5-3DashLine                                                                            | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.45mm Dashed Line (0.5mm wt; Dash1: 3.0mm Gap1: 3.0mm; Dash2:1.5mm Gap2: 1.5mm; Dash3: 1.5mm Gap3: 3.0mm)   |                                  |
| <b>Miscellaneous Note:</b> The line style is a 3.0mm dash, 3.0mm gap, 1.5mm dash, 1.5mm gap, 1.5mm dash, 3.0mm gap, then the pattern repeats. |                                  |
| <b>Line Weight:</b> 0.45mm                                                                                                                    | <b>Dash Length:</b> 3.0mm        |
|                                                                                                                                               | <b>Dash Spacing:</b> 3.0mm       |
|                                                                                                                                               | <b>2nd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>2nd Dash Spacing:</b> 1.5mm   |
|                                                                                                                                               | <b>3rd Dash Length:</b> 1.5mm    |
|                                                                                                                                               | <b>3rd Dash Spacing:</b> 3.0mm   |

**L00353**

**Element Name:** Lt-Green\_ShelterBelt

**Color Token:** Lt-Green

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.1mm Open Circle repeating along the linear feature.

**Miscellaneous Note:** The repeating point interval is such that the consecutive circles touch edges (centers of circles are 0.5mm apart).

**Line Weight:**

**Dash Length:**

**Dash Spacing:**

**Repeating Point:**

**Element Name:** Lt-Green\_0.5mmOpenCircle

**Element Reference:** P00232

**Element Type:** Point - Simple

## **Annex G – Point Elements**

### **Point Elements**

Each of the point elements used in Annex A – RTDS Symbols have been listed only one time in this Annex.

**Point Elements**

**Point - Complex**

**P00015**

|                                                                                    |                                            |                                  |                                     |
|------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Marabout                                                |                                            |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> Black 0.2mm crescent attached to a 0.8mm diameter open circle. |                                            |                                  |                                     |
| <b>Shape:</b>                                                                      | <b>Element Name:</b> Black_Crescent        | <b>Element Reference:</b> P00014 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                               | <b>Element Name:</b> Black_0.8mmOpenCircle | <b>Element Reference:</b> P00103 | <b>Element Type:</b> Point - Simple |

**P00070**

|                                                                                                        |                                              |                                  |                                     |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Mosque_0.8mmFilledSquare                                                    |                                              |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> Black crescent with a lineweight of 0.2mm attached to a Black 0.8mm filled square. |                                              |                                  |                                     |
| <b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square                     |                                              |                                  |                                     |
| <b>Shape:</b>                                                                                          | <b>Element Name:</b> Black_Crescent          | <b>Element Reference:</b> P00014 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                                                   | <b>Element Name:</b> Black_0.8mmFilledSquare | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |

**P00072**

|                                                                                          |                                              |                                  |                                     |
|------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Church_0.8mmFilledSquare                                      |                                              |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> Black 0.2mm lineweight cross attached to a Black 0.8mm filled square |                                              |                                  |                                     |
| <b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square       |                                              |                                  |                                     |
| <b>Shape:</b>                                                                            | <b>Element Name:</b> Black_Cross             | <b>Element Reference:</b> P00013 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                                     | <b>Element Name:</b> Black_0.8mmFilledSquare | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |

**P00079**

|                                                                                                                                                                                             |                                                      |                                  |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Passenger-Terminal                                                                                                                                                     |                                                      |                                  | <b>Color Token:</b> Black           |
| <b>Description:</b> A Black 0.8mm filled square inside of a larger open square. The smaller filled square is centered along and touching one side of the open square                        |                                                      |                                  |                                     |
| <b>Note:</b> Point element "Black_SquareFilled" positioned inside the open square, touching side of open square that is parallel to railway track on the same side as the terminal building |                                                      |                                  |                                     |
| <b>Shape:</b>                                                                                                                                                                               | <b>Element Name:</b> Black_0.8mmFilledSquare         | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |
| <b>Simple Point:</b>                                                                                                                                                                        | <b>Element Name:</b> Black_0.1mm-1.2mmwideSquareOpen | <b>Element Reference:</b> P00033 | <b>Element Type:</b> Point - Simple |

**P00087**

|                                                                                                  |                                              |                                  |                                     |
|--------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Synagogue_0.8mmFilledSquare                                           |                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black "T" with a linewidth of 0.2mm attached to a Black 0.8mm filled square. |                                              |                                  |                                     |
| <b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square               |                                              |                                  |                                     |
| <b>Shape:</b>                                                                                    | <b>Element Name:</b> Black_Judaism           | <b>Element Reference:</b> P00017 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                                             | <b>Element Name:</b> Black_0.8mmFilledSquare | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |

**P00089**

|                                                                           |                                                        |                                  |                                     |
|---------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Blue072_HospitalHelipad                              |                                                        | <b>Color Token:</b> Blue072      |                                     |
| <b>Description:</b> Blue072 open square with H centered inside the square |                                                        |                                  |                                     |
| <b>Note:</b> Open Square with H centered inside it                        |                                                        |                                  |                                     |
| <b>Simple Point:</b>                                                      | <b>Element Name:</b><br>Blue072_0.25mm-3.0mmOpenSquare | <b>Element Reference:</b> P00169 | <b>Element Type:</b> Point - Simple |
| <b>2nd Simple Point:</b>                                                  | <b>Element Name:</b> Blue072_H                         | <b>Element Reference:</b> P00086 | <b>Element Type:</b> Point - Simple |

**P00090**

|                                                                           |                                              |                                  |                                     |
|---------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Blue072_Helipad                                      |                                              | <b>Color Token:</b> Blue072      |                                     |
| <b>Description:</b> Blue072 open circle with H centered inside the circle |                                              |                                  |                                     |
| <b>Note:</b> Open Circle with H centered inside it                        |                                              |                                  |                                     |
| <b>Simple Point:</b>                                                      | <b>Element Name:</b> Blue072_3.0mmOpenCircle | <b>Element Reference:</b> P00170 | <b>Element Type:</b> Point - Simple |
| <b>2nd Simple Point:</b>                                                  | <b>Element Name:</b> Blue072_H               | <b>Element Reference:</b> P00086 | <b>Element Type:</b> Point - Simple |

**P00128**

|                                                                                     |                                              |                                  |                                     |
|-------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_School_0.8mmFilledSquare                                 |                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black flag attached to a Black 0.8mm filled square              |                                              |                                  |                                     |
| <b>Note:</b> Bottom of stem touches the mid-point of the edge of the filled square. |                                              |                                  |                                     |
| <b>Shape:</b>                                                                       | <b>Element Name:</b> Black_Flag              | <b>Element Reference:</b> P00016 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                                | <b>Element Name:</b> Black_0.8mmFilledSquare | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |

**P00179**

|                                                                                                                              |                                                              |                                  |                                     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_ControlPoint_Horizontal                                                                           |                                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 1.5mm equilateral triangle with a 0.1mm lineweight and a 0.3mm diameter filled dot centered inside |                                                              |                                  |                                     |
| <b>Note:</b> The 0.3mm diameter filled dot is centered within the equilateral triangle.                                      |                                                              |                                  |                                     |
| <b>Simple Point:</b>                                                                                                         | <b>Element Name:</b><br>Black_0.1mm_1.5mmEquilateralTriangle | <b>Element Reference:</b> P00177 | <b>Element Type:</b> Point - Simple |
| <b>2nd Simple Point:</b>                                                                                                     | <b>Element Name:</b> Black_0.3mmFilledDot                    | <b>Element Reference:</b> P00178 | <b>Element Type:</b> Point - Simple |

**P00183**

|                                                                                                                                                                                                                                |                                                            |                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_CaveMouth                                                                                                                                                                                           |                                                            | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 1.5mm length line and an open triangle attached at one end with all lineweights 0.1mm                                                                                                                |                                                            |                                  |                                     |
| <b>Note:</b> The Black 0.1mm 1.5mm long dash has the point of the 0.8mm sides open triangle attached on one end. The triangle is attached at the point/vertex created by the 90 degree angle between the two 0.8mm long sides. |                                                            |                                  |                                     |
| <b>Simple Point:</b>                                                                                                                                                                                                           | <b>Element Name:</b><br>Black_0.1mm_0.8mmsidesOpenTriangle | <b>Element Reference:</b> P00181 | <b>Element Type:</b> Point - Simple |
| <b>2nd Simple Point:</b>                                                                                                                                                                                                       | <b>Element Name:</b> Black_0.1mm_1.5mmDash                 | <b>Element Reference:</b> P00182 | <b>Element Type:</b> Point - Simple |

**P00184**

|                                                                                             |                                              |                                  |                                     |
|---------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Minaret                                                          |                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black 0.2mm crescent attached to a Black open circle with a filled dot. |                                              |                                  |                                     |
| <b>Simple Point:</b>                                                                        | <b>Element Name:</b> Black_Crescent          | <b>Element Reference:</b> P00014 | <b>Element Type:</b> Point - Shape  |
| <b>2nd Simple Point:</b>                                                                    | <b>Element Name:</b> Black_OpenCircleWithDot | <b>Element Reference:</b> P00010 | <b>Element Type:</b> Point - Simple |

**P00190**

|                                                                                                                |                                              |                                  |                                     |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------|
| <b>Element Name:</b> Black_Diplomatic_0.8mmFilledSquare                                                        |                                              | <b>Color Token:</b> Black        |                                     |
| <b>Description:</b> Black square open flag attached centered along the side of a filled square all sides 0.8mm |                                              |                                  |                                     |
| <b>Note:</b> Bottom of stem touches the mid-point of the edge of the feature                                   |                                              |                                  |                                     |
| <b>Shape:</b>                                                                                                  | <b>Element Name:</b> Black_OpenSquareFlag    | <b>Element Reference:</b> P00185 | <b>Element Type:</b> Point - Shape  |
| <b>Simple Point:</b>                                                                                           | <b>Element Name:</b> Black_0.8mmFilledSquare | <b>Element Reference:</b> P00006 | <b>Element Type:</b> Point - Simple |

**P00201**

**Element Name:** Black\_PT\_Bridge\_Pedestrian

**Color Token:** Black

**Description:** Black 0.75mm length line with a 0.3mm lineweight with a V attached at each end.

**Simple Point:**                      **Element Name:** Black\_0.3mm-0.75LenLine                      **Element Reference:** P00203                      **Element Type:** Point - Simple

**2nd Simple Point:**                      **Element Name:** Black\_0.15mm-0.75mmLenV                      **Element Reference:** P00039                      **Element Type:** Point - Simple

**3rd Simple Point:**                      **Element Name:** Black\_0.15mm-0.75mmLenV                      **Element Reference:** P00039                      **Element Type:** Point - Simple

## Point - Shape

### P00001

**Element Name:** Black\_PickAxeShovel

**Color Token:** Black

**Description:** Black pickaxe and shovel

**Note:** See Element: Black\_PickAxeShovel in Annex H for detailed drawing instructions.

### P00002

**Element Name:** Black\_PickAxeShovel180

**Color Token:** Black

**Description:** Black pickaxe and shovel rotated 180 degrees

**Note:** See Element: Black\_PickAxeShovel (P0001) in Annex H for detailed drawing instructions. Image will need to be rotated 180 degrees.

**Orientation:** Rotated 180 degrees

### P00008

**Element Name:** Blue072\_Obstruction

**Color Token:** Blue072

**Description:** Blue072 vertical obstruction

**Note:** See Element: Blue072\_Obstruction in Annex H for detailed drawing instructions.

### P00011

**Element Name:** Black\_HospitalCrossOnStem

**Color Token:** Black

**Description:** Black 1.75mm diameter filled circle with a 1.25mm (0.25mm lineweight) paper white plus centered inside attached to a 0.6mm length stem with a 0.25mm lineweight

**Note:** The 1.25mm (0.25mm lineweight) paper white plus symbol is centered inside the black 1.75mm diameter filled circle and the stem is 0.6mm length with a 0.25mm lineweight.

**Diameter:** 1.75mm

**Lineweight:** 0.25mm

### P00012

**Element Name:** Black\_HospitalCross

**Color Token:** Black

**Description:** Black 1.75mm diameter filled circle with a 1.25mm (0.25mm lineweight) paper white plus centered inside

**Note:** The 1.25mm (0.25mm lineweight) paper white plus symbol is centered inside the black 1.75mm diameter filled circle.

**Diameter:** 1.75mm

**Lineweight:** 0.25mm

**P00013****Element Name:** Black\_Cross**Color Token:** Black**Description:** Black cross**Note:** See Element: Black\_Cross in Annex H for detailed drawing instructions.**P00014****Element Name:** Black\_Crescent**Color Token:** Black**Description:** Black crescent**Note:** See Element: Black\_Crescent in Annex H for detailed drawing instructions.**P00016****Element Name:** Black\_Flag**Color Token:** Black**Description:** Black flag**Note:** See Element: Black\_Flag in Annex H for detailed drawing instructions.**P00017****Element Name:** Black\_Judaism**Color Token:** Black**Description:** Black 0.2mm lineweight "T" with a 1.1mm overall height**Note:** Black 0.8mm horizontal line and a 0.9mm vertical line extending down from the center forms the "T" with a total height 1.1mm**Lineweight:** 0.2mm**P00018****Element Name:** Black\_Temple**Color Token:** Black**Description:** Black temple**Note:** See Element: Black\_Temple in Annex H for detailed drawing instructions.**P00019****Element Name:** Black\_Pagoda**Color Token:** Black**Description:** Black pagoda**Note:** See Element: Black\_Pagoda in Annex H for detailed drawing instructions.

**P00020****Element Name:** Blue072\_Pylon**Color Token:** Blue072**Description:** Blue072 pylon**Note:** See Element: Blue072\_Pylon in Annex H for detailed drawing instructions.**Orientation:** Centered at 90 degrees to the line**P00023****Element Name:** Black\_Cemetery\_Buddhism**Color Token:** Black**Description:** Black squared "U" shape with a 0.2mm lineweight and overall width 1.10mm and height 0.6mm**Lineweight:** 0.2mm**Length:** 1.10mm**P00025****Element Name:** Blue072\_Beacon**Color Token:** Blue072**Description:** Blue072 5-pointed filled star with an open circle in the center**Note:** See Element: Blue072\_Beacon in Annex H for detailed drawing instructions.**P00026****Element Name:** Cyan\_SpringPerennial**Color Token:** Cyan**Description:** Cyan spring (perennial)**Note:** See Element: Cyan\_SpringPerennial in Annex H for detailed drawing instructions.**Orientation:** Tail of feature is downstream to drainage or to the lines of latitude when drain is not present**P00028****Element Name:** Cyan\_VanishingPoint**Color Token:** Cyan**Description:** Cyan vanishing point**Note:** See Element: Cyan\_VanishingPoint in Annex H for detailed drawing instructions.**P00029****Element Name:** Black\_MountainPass**Color Token:** Black**Description:** Black mountain pass**Note:** See Element: Black\_MountainPass in Annex H for detailed drawing instructions.

**P00031****Element Name:** Black\_Stupa**Color Token:** Black**Description:** Black stupa**Note:** See Element: Black\_Stupa in Annex H for detailed drawing instructions.**P00032****Element Name:** Cyan\_SpringIntermittent**Color Token:** Cyan**Description:** Cyan spring (intermittent)**Note:** See Element: Cyan\_SpringIntermittent in Annex H for detailed drawing instructions.**Orientation:** Tail of feature is downstream to drainage or to the lines of latitude when drain is not present**P00035****Element Name:** Black\_PT\_Lock**Color Token:** Black**Description:** Two black "V" spaced 0.5mm apart with length of each leg 0.8mm and a 0.1mm lineweight that intersect at a 90 degree angle**Note:** Angle between legs: 90 degrees**Orientation:** Apex is where the lines connect to form a "V"**Lineweight:** 0.1mm**Length:** 0.8mm**P00101****Element Name:** Blue072\_Multiple\_VOs**Color Token:** Blue072**Description:** Blue072 multiple vertical obstruction**Note:** See Element: Blue072\_Multiple\_VOs in Annex H for detailed drawing instructions.**P00113****Element Name:** Blue072\_PT\_LinearObstruction**Color Token:** Blue072**Description:** Blue072 linear vertical obstruction**Note:** See Element: Blue072\_PT\_LinearObstruction in Annex H for detailed drawing instructions**P00126****Element Name:** Black\_Cemetery\_Unknown**Color Token:** Black**Description:** Black cemetery unknown**Note:** See Element: Black\_Cemetery\_Unknown in Annex H for detailed drawing instructions

**P00131****Element Name:** Black\_Crane**Color Token:** Black**Description:** Black crane**Note:** See Element: Black\_Crane in Annex H for detailed drawing instructions.**P00132****Element Name:** Black\_Checkpoint**Color Token:** Black**Description:** Black checkpoint**Note:** See Element: Black\_Checkpoint in Annex H for detailed drawing instructions.**P00135****Element Name:** Black\_Lighthouse**Color Token:** Black**Description:** Black lighthouse**Note:** See Element: Black\_Lighthouse in Annex H for detailed drawing instructions.**P00136****Element Name:** Black\_MemorialMonument**Color Token:** Black**Description:** Black memorial monument**Note:** See Element: Black\_MemorialMonument in Annex H for detailed drawing instructions.**P00138****Element Name:** Black\_PowerSubstation**Color Token:** Black**Description:** Black power substation**Note:** See Element: Black\_PowerSubstation in Annex H for detailed drawing instructions.**P00139****Element Name:** Black\_RouteMarker\_NationalMotorway**Color Token:** Black**Description:** Black national motorway route marker**Note:** See Element: Black\_RouteMarker\_NationalMotorway in Annex H for detailed drawing instructions**P00140****Element Name:** Black\_Smokestack**Color Token:** Black**Description:** Black smokestack**Note:** See Element: Black\_Smokestack in Annex H for detailed drawing instructions

**P00141**

**Element Name:** Black\_Tower

**Color Token:** Black

**Description:** Black tower

**Note:** See Element: Black\_Tower in Annex H for detailed drawing instructions

**P00142**

**Element Name:** Cyan\_WaterTower

**Color Token:** Cyan

**Description:** Cyan water tower

**Note:** See Element: Cyan\_Water\_Tower in Annex H for detailed drawing instructions

**P00143**

**Element Name:** Black\_WindTurbine

**Color Token:** Black

**Description:** Black wind turbine

**Note:** See Element: Black\_WindTurbine in Annex H for detailed drawing instructions

**P00144**

**Element Name:** Black\_Windmill

**Color Token:** Black

**Description:** Black windmill

**Note:** See Element: Black\_Windmill in Annex H for detailed drawing instructions

**P00145**

**Element Name:** Black\_Flarepipe

**Color Token:** Black

**Description:** Black flarepipe

**Note:** See Element: Black\_Flarepipe in Annex H for detailed drawing instructions

**P00147**

**Element Name:** Black\_WaterMill

**Color Token:** Black

**Description:** Black water mill

**Note:** See Element: Black\_WaterMill in Annex H for detailed drawing instructions.

**P00148**

**Element Name:** Black\_WaterIntakeTower

**Color Token:** Black

**Description:** Black water intake tower

**Note:** See Element: Black\_WaterIntakeTower in Annex H for detailed drawing instructions.

**P00150****Element Name:** Cyan\_PT\_Tunnel**Color Token:** Cyan**Description:** Cyan point tunnel**Note:** See Element: Cyan\_PT\_Tunnel in Annex H for detailed drawing instructions**P00151****Element Name:** Black\_PT\_Tunnel**Color Token:** Black**Description:** Black point tunnel**Note:** See Element: Black\_PT\_Tunnel in Annex H for detailed drawing instructions**P00155****Element Name:** Black\_Communication\_Tower**Color Token:** Black**Description:** Black communication tower**Note:** See Element: Black\_Communication\_Tower in Annex H for detailed drawing instructions.**P00159****Element Name:** Black\_RouteMarker\_National**Color Token:** Black**Description:** Black national route marker**Note:** See Element: Black\_RouteMarker\_National in Annex H for detailed drawing instructions**P00161****Element Name:** Black\_Offshore\_VO**Color Token:** Black**Description:** Black vertical obstruction**Note:** See Element: Black\_Offshore\_VO in Annex H for detailed drawing instructions**P00162****Element Name:** Black\_Rig\_Inland**Color Token:** Black**Description:** Black rig inland**Note:** See Element: Black\_Rig\_Inland in Annex H for detailed drawing instructions**P00180****Element Name:** Black\_Cemetery\_Shinto**Color Token:** Black**Description:** Black shinto cemetery**Note:** See Element: Black\_Cemetery\_Shinto in Annex H for detailed drawing instructions

**P00185****Element Name:** Black\_OpenSquareFlag**Color Token:** Black**Description:** Black open square flag**Note:** See Element: Black\_OpenSquareFlag in Annex H for detailed drawing instructions.**P00188****Element Name:** Black\_PT\_Bridge**Color Token:** Black**Description:** Black point bridge (fixed)**Note:** See Element: Black\_PT\_Bridge in Annex H for detailed drawing instructions**P00192****Element Name:** Black\_LightVessel**Color Token:** Black**Description:** Black light vessel**Note:** See Element: Black\_LightVessel in Annex H for detailed drawing instructions**P00200****Element Name:** Cyan\_FlowArrow**Color Token:** Cyan**Description:** Cyan flow arrow**Note:** See Element: Cyan\_FlowArrow in Annex H for detailed drawing instructions**P00202****Element Name:** Black\_PT\_Bridge\_DrawLift**Color Token:** Black**Description:** Black point bridge (draw-lift)**Note:** See Element: Black\_PT\_Bridge\_DrawLift in Annex H for detailed drawing instructions**P00206****Element Name:** Black\_Wreck**Color Token:** Black**Description:** Black wreck**Note:** See Element: Black\_Wreck in Annex H for detailed drawing instructions**P00213****Element Name:** Blue072\_Navaid\_VOR**Color Token:** Blue072**Description:** Blue072 navaid vor**Note:** See Element: Blue072\_Navaid\_VOR in Annex H for detailed drawing instructions.

**P00214**

**Element Name:** Blue072\_Navaid\_VORTAC

**Color Token:** Blue072

**Description:** Blue072 navaid vortac

**Note:** See Element: Blue072\_Navaid\_VORTAC in Annex H for detailed drawing instructions.

**P00215**

**Element Name:** Blue072\_Navaid\_TACAN

**Color Token:** Blue072

**Description:** Blue072 navaid tacan

**Note:** See Element: Blue072\_Navaid\_TACAN in Annex H for detailed drawing instructions.

**P00216**

**Element Name:** Blue072\_Navaid\_VOR\_DME

**Color Token:** Blue072

**Description:** Blue072 navaid vor dme

**Note:** See Element: Blue072\_Navaid\_VOR\_DME in Annex H for detailed drawing instructions.

**P00231**

**Element Name:** Lt-Green\_Tree

**Color Token:** Green362-31

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) tree

**Note:** See Element: Green\_Tree in Annex H for detailed drawing instructions.

## Point - Simple

### P00006

**Element Name:** Black\_0.8mmFilledSquare

**Color Token:** Black

**Description:** Black filled square with all sides 0.8mm

**Note:** Square is filled

**Length:** 0.8mm

### P00007

**Element Name:** Cyan\_0.8mmFilledSquare

**Color Token:** Cyan

**Description:** Cyan filled square with all sides 0.8mm

**Note:** Square is filled

**Length:** 0.8mm

### P00009

**Element Name:** Black\_1.0mmOpenCircle

**Color Token:** Black

**Description:** Black 1.0mm diameter open circle with a lineweight of 0.15mm

**Diameter:** 1.0mm

**Lineweight:** 0.15mm

### P00010

**Element Name:** Black\_OpenCircleWithDot

**Color Token:** Black

**Description:** Black 1.25mm diameter open circle with a 0.15mm lineweight and a black filled 0.3mm diameter dot in the center

**Note:** 0.3mm diameter dot in the center of the open circle

**Diameter:** 1.25mm

**Lineweight:** 0.15mm

### P00024

**Element Name:** Black\_0.8mmOpenSquare

**Color Token:** Black

**Description:** Black 0.1mm lineweight open square with all sides 0.8mm

**Lineweight:** 0.1mm

**Length:** 0.8mm

**P00033**

|                                                                   |                           |
|-------------------------------------------------------------------|---------------------------|
| <b>Element Name:</b> Black_0.1mm-1.2mmwideSquareOpen              | <b>Color Token:</b> Black |
| <b>Description:</b> Black open square (0.1mm wt, 1.2mm long/wide) |                           |
| <b>Lineweight:</b> 0.1mm                                          | <b>Length:</b> 1.2mm      |

**P00038**

|                                                                      |                           |
|----------------------------------------------------------------------|---------------------------|
| <b>Element Name:</b> Black_0.15mm-0.75mmLenTick                      | <b>Color Token:</b> Black |
| <b>Description:</b> Black 0.15mm lineweight line that is 0.75mm long |                           |
| <b>Orientation:</b> Based 90 degrees to line                         |                           |
| <b>Lineweight:</b> 0.15mm                                            | <b>Length:</b> 0.75mm     |

**P00039**

|                                                                                                                         |                           |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Element Name:</b> Black_0.15mm-0.75mmLenV                                                                            | <b>Color Token:</b> Black |
| <b>Description:</b> Black "V" length of each leg is 0.75mm with a 0.15mm lineweight that intersect at a 90 degree angle |                           |
| <b>Note:</b> Angle between legs: 90 degrees                                                                             |                           |
| <b>Orientation:</b> Apex is where the lines connect to form a "V"                                                       |                           |
| <b>Lineweight:</b> 0.15mm                                                                                               | <b>Length:</b> 0.75mm     |

**P00040**

|                                                                              |                          |
|------------------------------------------------------------------------------|--------------------------|
| <b>Element Name:</b> Cyan_1.0mmCircleOpen                                    | <b>Color Token:</b> Cyan |
| <b>Description:</b> Cyan 1.0mm diameter open circle with a 0.15mm lineweight |                          |
| <b>Diameter:</b> 1.0mm                                                       |                          |
| <b>Lineweight:</b> 0.15mm                                                    |                          |

**P00041**

|                                                       |                          |
|-------------------------------------------------------|--------------------------|
| <b>Element Name:</b> Cyan_0.8mmFilledCircle           | <b>Color Token:</b> Cyan |
| <b>Description:</b> Cyan 0.8mm diameter filled circle |                          |
| <b>Note:</b> Circle is filled                         |                          |
| <b>Diameter:</b> 0.8mm                                |                          |

**P00042**

**Element Name:** Black\_0.15mm-0.75mmLenWingTick **Color Token:** Black  
**Description:** Black 0.75mm fixed length line (lineweight 0.15mm) that is angled at 45, 135, 225 or 315 to the line with which it attaches.  
**Note:** Angle depends on which end of the feature the ticks are placed.  
**Orientation:** Based 45, 135, 225, and 315 degrees to line outward, from center of line ends  
**Lineweight:** 0.15mm **Length:** 0.75mm

**P00043**

**Element Name:** Black\_0.15mm-1.0mmLenTick **Color Token:** Black  
**Description:** Black 1.0mm length line with a 0.15mm lineweight  
**Orientation:** Centered 90 degrees to line  
**Lineweight:** 0.15mm **Length:** 1.0mm

**P00044**

**Element Name:** Black\_0.15mm-1.5mmLenTick **Color Token:** Black  
**Description:** Black 1.5mm length line with a 0.15mm lineweight  
**Orientation:** Centered 90 degrees to line  
**Lineweight:** 0.15mm **Length:** 1.5mm

**P00045**

**Element Name:** Black\_0.2mm-0.7mmLenV **Color Token:** Black  
**Description:** Black "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle  
**Note:** Angle between legs: 90 degrees  
**Orientation:** Apex is where the lines connect to form a "V"  
**Lineweight:** 0.2mm **Length:** 0.7mm

**P00046**

**Element Name:** Black\_0.2mm-1.3mmLenX **Color Token:** Black  
**Description:** Two Black lines (each length 1.3mm with a 0.2mm lineweight) intersect at a 45 degree angle to form an "X". Intersection is at the center of the two line segments.  
**Orientation:** Center of intersection  
**Lineweight:** 0.2mm **Length:** 1.3mm

**P00047**

**Element Name:** Black\_0.25mmFilledDot

**Color Token:** Black

**Description:** Black 0.25mm diameter filled circle

**Note:** Circle is filled

**Diameter:** 0.25mm

**P00048**

**Element Name:** Black\_0.2mmOpenCircle

**Color Token:** Black

**Description:** A 0.2mm lineweight open circle whose diameter depends upon the width of the feature.

**Diameter:** center line of the circle matches  
feature width

**Lineweight:** 0.2mm

**P00049**

**Element Name:** Black\_0.5mmFilledDot

**Color Token:** Black

**Description:** Black 0.5mm diameter filled circle

**Note:** Circle is filled

**Diameter:** 0.5mm

**P00051**

**Element Name:** Black\_0.35mm-1.5LenLine

**Color Token:** Black

**Description:** Black 1.5mm length line with a 0.35mm lineweight

**Lineweight:** 0.35mm

**Length:** 1.5mm

**P00053**

**Element Name:** Black\_0.8mmFilledCircle

**Color Token:** Black

**Description:** Black 0.8mm diameter filled circle

**Note:** Circle is filled

**Diameter:** 0.8mm

**P00055****Element Name:** Cyan\_0.1mm-0.5mmLenTick**Color Token:** Cyan**Description:** Cyan 0.5mm length line with a 0.1mm lineweight**Orientation:** Based 90 degrees to line**Lineweight:** 0.1mm**Length:** 0.5mm**P00056****Element Name:** Cyan\_0.15mm-0.6mmLenTickCircle**Color Token:** Cyan**Description:** Total of eight Cyan 0.6mm length ticks with a 0.15mm lineweight extending out from an imaginary 1.5mm diameter circle.**Note:** Center circle diameter: 1.5mm Tick placement: 45 degree increments clockwise starting at 0 degrees from North.**Orientation:** Ticks are oriented 45 degrees from each other starting at 0 degrees**Lineweight:** 0.15mm**Length:** 0.6mm**P00057****Element Name:** Cyan\_1.0mmOpenCircle**Color Token:** Cyan**Description:** Cyan 1.0mm diameter open circle with a 0.15mm lineweight**Diameter:** 1.0mm**Lineweight:** 0.15mm**P00058****Element Name:** Cyan\_0.2mm-0.7mmLenV**Color Token:** Cyan**Description:** Cyan "V" length of each leg is 0.7mm with a 0.2mm lineweight that intersect at a 90 degree angle**Note:** Angle between legs: 90 degrees**Orientation:** Apex is where the lines connect to form a "V"**Lineweight:** 0.2mm**Length:** 0.7mm

**P00059****Element Name:** Cyan\_0.2mm-1mmLenV**Color Token:** Cyan**Description:** Cyan "V" length of each leg is 1.0mm with a 0.2mm lineweight that intersect at a 90 degree angle**Note:** Angle between stems: 90 degrees**Orientation:** Apex is where the lines connect to form a "V"**Lineweight:** 0.2mm**Length:** 1.0mm**P00061****Element Name:** Cyan\_0.2mm-1.5mmLenLine**Color Token:** Cyan**Description:** Cyan 1.5mm length line with a 0.2mm lineweight**Orientation:** Centered 90 degrees to line**Lineweight:** 0.2mm**Length:** 1.5mm**P00062****Element Name:** Cyan\_0.3mm-0.7mmLenX**Color Token:** Cyan**Description:** Two Cyan lines (each length 0.7mm with a 0.3mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments.**Orientation:** Center of intersection**Lineweight:** 0.3mm**Length:** 0.7mm**P00064****Element Name:** Dk-Brown1815\_1.0mmOpenCirclewithTicks**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 1.0mm diameter open circle with alternating (1.0mm long and 0.5mm short) ticks extending out every 45 degrees all with a 0.1mm lineweight.**Note:** Ticks alternate in length (short tick 0.5mm length, long tick 1.0mm length) starting with a long tick at the top, each at a 45 degree angle increment from the last. Each tick connects with the outside of the circle radiating outwards.**Diameter:** 1.0mm (circle)**Lineweight:** 0.1mm**Length:** Long Tick: 1.0mm; Short Tick: 0.5mm

**P00065**

|                                                                           |                                  |
|---------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.1mm-0.5mmLenTick                      | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.1mm lineweight line that is 0.5mm long |                                  |
| <b>Orientation:</b> Based 90 degrees to line                              |                                  |
| <b>Lineweight:</b> 0.1mm                                                  | <b>Length:</b> 0.5mm             |

**P00066**

|                                                                                                                                                    |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.15mmTickCircle                                                                                                 | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Total of eight Dk-Brown1815 0.6mm length ticks with a 0.15mm lineweight extending out from an imaginary 1.5mm diameter circle. |                                  |
| <b>Note:</b> Center circle diameter: 1.5mm Tick placement: 45 degree increments clockwise starting at 0 degrees from North.                        |                                  |
| <b>Orientation:</b> Ticks are oriented 45 degrees from each other starting at 0 degrees                                                            |                                  |
| <b>Lineweight:</b> 0.15mm                                                                                                                          | <b>Length:</b> 0.6mm             |

**P00067**

|                                                                              |                                  |
|------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.15mm-0.8mmLenTick                        | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Dk-Brown1815 0.8 mm length line with a 0.15mm lineweight |                                  |
| <b>Orientation:</b> Centered 90 degrees to line                              |                                  |
| <b>Lineweight:</b> 0.15mm                                                    | <b>Length:</b> 0.8mm             |

**P00071**

|                                                                                                                                                              |                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Element Name:</b> Dk-Brown1815_0.25mmTickCircle                                                                                                           | <b>Color Token:</b> Dk-Brown1815 |
| <b>Description:</b> Total of six Dk-Brown1815 0.6mm length ticks with a 0.25mm lineweight extending out from an imaginary 0.244mm diameter circle.           |                                  |
| <b>Note:</b> Center circle diameter: 0.244mm Tick placement: 60 degree increments clockwise starting at 30 degrees from North. Overall tick diameter: 1.44mm |                                  |
| <b>Orientation:</b> Ticks are oriented 60 degrees from each other starting at 30 degrees                                                                     |                                  |
| <b>Lineweight:</b> 0.25mm                                                                                                                                    | <b>Length:</b> 0.6mm             |

**P00073**

|                                                                                                                                                    |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Element Name:</b> Black_0.2mmTick-Entrance/Exit                                                                                                 | <b>Color Token:</b> Black                         |
| <b>Description:</b> Black 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm |                                                   |
| <b>Note:</b> Wing tick placed at 45 degree angle outward from center of the headline end                                                           |                                                   |
| <b>Headline:</b> Lineweight: 0.2mm Length: 2.0mm                                                                                                   | <b>Wing Tick:</b> Lineweight: 0.2mm Length: 0.6mm |

**P00074**

**Element Name:** Cyan\_0.2mmTick-Entrance/Exit **Color Token:** Cyan  
**Description:** Cyan 2.0mm length line with 0.6mm length wing ticks attached at a 45 degree angle at each endpoint. All lineweights are 0.2mm  
**Note:** Wing tick placed at 45 degree angle outward from center of the headline end  
**Headline:** Lineweight: 0.2mm Length: 2.0mm **Wing Tick:** Lineweight: 0.2mm Length: 0.6mm

**P00082**

**Element Name:** Black\_0.4mmFilledDot **Color Token:** Black  
**Description:** Black 0.4mm diameter filled circle  
**Note:** Circle is filled  
**Diameter:** 0.4mm

**P00084**

**Element Name:** Black\_PeatCutting **Color Token:** Black  
**Description:** Black peat cutting pattern  
**Note:** Total of five 1.5mm width, 1.0mm height rectangles, two rows staggered, three on the bottom row, two on top row.  
**Lineweight:** 0.1mm

**P00086**

**Element Name:** Blue072\_H **Color Token:** Blue072  
**Description:** Blue072 letter 'H'  
**Note:** Two (2) vertical lines with an overall height of 1.5mm connected by a horizontal line with an overall length of 1.2mm to form a capital letter 'H' with a 0.25mm lineweight.  
**Lineweight:** 0.25mm

**P00095**

**Element Name:** Black\_Rock **Color Token:** Black  
**Description:** Total of three 1.5mm length lines with a 0.1mm lineweight oriented 60 degrees apart, starting at 30 degrees from north  
**Lineweight:** 0.1mm **Length:** 1.5mm

**P00098****Element Name:** Blue072\_Runway\_Minor**Color Token:** Blue072**Description:** Blue072 0.4mm x 4.2mm open rectangle with a 0.05mm lineweight outline perimeter**Note:** The 0.4mm x 4.2mm open rectangle has a Blue072 0.05mm lineweight outline perimeter**Lineweight:** 0.05mm**P00103****Element Name:** Black\_0.8mmOpenCircle**Color Token:** Black**Description:** Black 0.8mm diameter open circle with a lineweight of 0.15mm**Diameter:** 0.8mm**Lineweight:** 0.15mm**P00108****Element Name:** Black\_Fortification**Color Token:** Black**Description:** Black open square with all sides 0.8 mm and four black 0.5mm length ticks extending out from each corner at 45, 135, 225, and 315 degrees. All lineweights are 0.1mm.**Lineweight:** 0.1mm**Length:** 0.5mm**P00109****Element Name:** Lt-Green\_FilledRectangle\_0.1mmOutline**Color Token:****Description:** Black 0.5mm x 1.0mm rectangle with a 0.1mm lineweight outline perimeter and a Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) fill inside.**Note:** The 0.5mm x 1.0mm rectangle has a Black 0.1mm lineweight outline perimeter and a Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) fill inside**Lineweight:** 0.1mm**P00129****Element Name:** Dk-Brown1815\_0.35mm-1.5LenLine**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 1.5mm length line with a 0.35mm lineweight**Lineweight:** 0.35mm**Length:** 1.5mm

**P00130**

**Element Name:** Black\_Castle **Color Token:** Black  
**Description:** Black 1.1mm open square with a 0.15mm lineweight and a 0.55mm filled square on each corner. Overall height and width is 1.5mm.  
**Note:** Four 0.55mm filled squares, one on each corner of the larger open square  
**Lineweight:** 0.15mm **Length:** 1.5mm

**P00134**

**Element Name:** Black\_CircleOpenWithPlus **Color Token:** Black  
**Description:** Black 1.75mm diameter open circle with a 0.1mm lineweight and a 0.35mm lineweight plus symbol centered inside.  
**Note:** Plus symbol centered inside is 0.35mm lineweight  
**Diameter:** 1.75mm  
**Lineweight:** 0.1mm

**P00149**

**Element Name:** Black\_0.45mm-0.35mmLenTick **Color Token:** Black  
**Description:** Black 0.45mm lineweight line that is 0.35mm long  
**Orientation:** Based 90 degrees to line  
**Lineweight:** 0.45mm **Length:** 0.35mm

**P00152**

**Element Name:** Black\_PT\_TransRouteProtectStruct **Color Token:** Black  
**Description:** Black 1.5mm x 2.5mm rectangle with a 0.2mm lineweight outline perimeter and filled with the line pattern LP15  
**Note:** Black 1.5mm x 2.5mm rectangle has a 0.2mm lineweight outline perimeter and is filled with a line pattern. See Element: Black\_LP15Fill in Annex I  
**Lineweight:** 0.2mm

**P00153**

**Element Name:** Black\_0.15mm-2mmLenLine **Color Token:** Black  
**Description:** Black 2.0mm length line with a 0.15mm lineweight  
**Orientation:** Line is placed 90 degrees to linear feature  
**Lineweight:** 0.15mm **Length:** 2.0mm

**P00154****Element Name:** Cyan\_0.15mm-2mmLenLine**Color Token:** Cyan**Description:** Cyan 2.0mm length line with a 0.15mm lineweight**Orientation:** Line is placed 90 degrees to linear feature**Lineweight:** 0.15mm**Length:** 2.0mm**P00157****Element Name:** Cyan\_1.5mmOpenSquare**Color Token:** Cyan**Description:** Cyan 1.5mm open square with a 0.2 mm lineweight**Lineweight:** 0.2mm**Length:** 1.5mm**P00158****Element Name:** Black\_4.5mm\_by\_2.25mm\_Rectangle**Color Token:** Black**Description:** Black 4.5mm length by 2.25mm width open rectangle with a lineweight of 0.1mm**Lineweight:** 0.1mm**Length:** 4.5mm long;  
2.25mm wide**P00160****Element Name:** Black\_3.8mmOpenCircle**Color Token:** Black**Description:** Black 3.8mm diameter open circle with a lineweight of 0.1mm**Diameter:** 3.8mm**Lineweight:** 0.1mm**P00163****Element Name:** Black\_OffshorePlatform**Color Token:** Black**Description:** Black open square with all sides 1.2mm with a 0.1mm lineweight and a black filled 0.2mm diameter circle centered inside**Note:** 0.2mm diameter dot in the center of the 1.2mm open square**Lineweight:** 0.1mm

**P00169****Element Name:** Blue072\_0.25mm-3.0mmOpenSquare**Color Token:** Blue072**Description:** Blue072 0.25mm lineweight open square with all sides 3.0mm**Note:** Open Square with lineweight of 0.25mm and sides of the square are 3.0mm long**Lineweight:** 0.25mm**Length:** 3.0mm**P00170****Element Name:** Blue072\_3.0mmOpenCircle**Color Token:** Blue072**Description:** Blue072 3.0mm diameter open circle with a 0.25mm lineweight**Diameter:** 3.0mm**Lineweight:** 0.25mm**P00172****Element Name:** Black\_PT\_Gate**Color Token:** Black**Description:** Four Black lines (0.2mm wt) which connect to form a "bow tie". Two outer vertical edges with a height of 1.5mm and 2.3mm apart. A "bow tie" is formed by connecting opposite "ends". Overall width of symbol is 2.5mm.**Lineweight:** 0.2mm**Length:** 2.5mm**P00174****Element Name:** Dk-Brown1815\_0.15mm-0.5mmLenTick**Color Token:** Dk-Brown1815**Description:** Dk-Brown1815 0.5mm length line with a 0.15mm lineweight**Orientation:** Based 90 degrees to line**Lineweight:** 0.15mm**Length:** 0.5mm**P00177****Element Name:** Black\_0.1mm\_1.5mmEquilateralTriangle**Color Token:** Black**Description:** Black 1.5mm equilateral triangle with a 0.1mm lineweight**Note:** A black open equilateral triangle all sides are 1.5mm with a 0.1mm lineweight**Lineweight:** 0.1mm**Length:** 1.5mm

**P00178****Element Name:** Black\_0.3mmFilledDot**Color Token:** Black**Description:** Black 0.3mm diameter filled circle**Note:** Circle is filled**Diameter:** 0.3mm**P00181****Element Name:** Black\_0.1mm\_0.8mmsidesOpenTriangle**Color Token:** Black**Description:** Black open triangle (2 sides are 0.8mm length with a 90 degree angle and the base is 1.131mm length) 0.1mm lineweight**Lineweight:** 0.1mm**Length:** 0.8mm (2 sides)  
1.131mm (Base of triangle)**P00182****Element Name:** Black\_0.1mm\_1.5mmDash**Color Token:** Black**Description:** Black 1.5mm length line with a 0.1mm lineweight**Lineweight:** 0.1mm**Length:** 1.5mm**P00187****Element Name:** Black\_CircleOpenWithPlusOnStem**Color Token:** Black**Description:** Black 1.75mm diameter open circle with a 0.1mm lineweight and a 0.35mm lineweight plus symbol centered inside attached to a 0.6mm length stem with a 0.25mm lineweight**Note:** Plus symbol centered inside is 0.35mm lineweight and the stem is 0.6mm length with a 0.25mm lineweight**Diameter:** 1.75mm**Lineweight:** 0.1mm**P00195****Element Name:** Cyan\_0.2mm\_1.3mmCasedLine**Color Token:** Cyan**Description:** Two Cyan 1.3mm length lines with a 0.2mm lineweight parallel with a 0.5mm spacing between the lines**Note:** Spacing between lines is 0.5mm**Lineweight:** 0.2mm**Length:** 1.3mm

**P00203****Element Name:** Black\_0.3mm-0.75LenLine**Color Token:** Black**Description:** Black 0.3mm lineweight line that is 0.75mm long**Lineweight:** 0.3mm**Length:** 0.75mm**P00205****Element Name:** Black\_0.1mm-1.0mmLenX**Color Token:** Black**Description:** Two Black lines (each length 1.0mm with a 0.1mm lineweight) intersect at a 45 degree angles to form an "X". Intersection is at the center of the two line segments.**Orientation:** Center of intersection**Lineweight:** 0.1mm**Length:** 1.0mm**P00207****Element Name:** Black\_ReefArc**Color Token:** Black**Description:** Black arc with a 0.78 diameter with a 0.55mm line extending from each end (190 degrees and 170 degrees). All lineweights are 0.13mm.**Note:** Overall height 0.8mm and width 0.86mm**Diameter:** 0.78mm**Lineweight:** 0.13mm**P00208****Element Name:** Cyan\_0.3mm-0.9mmLenV**Color Token:** Cyan**Description:** Cyan "V" length of each leg is 0.9mm with a 0.3mm lineweight that intersect at a 90 degree angle**Note:** Angle between legs: 90 degrees**Orientation:** Apex is where the lines connect to form a "V"**Lineweight:** 0.3mm**Length:** 0.9mm**P00210****Element Name:** Black\_1.2mmOpenCircle**Color Token:** Black**Description:** Black 1.2mm diameter open circle with a lineweight of 0.1mm**Diameter:** 1.2mm**Lineweight:** 0.1mm

**P00212****Element Name:** Blue072\_Navid\_Other**Color Token:** Blue072**Description:** Blue072 1.9mm diameter open circle with a 0.3mm lineweight and a Blue072 filled 0.4mm diameter filled circle in the center**Note:** 0.4mm diameter filled circle in the center of the open circle**Diameter:** 1.9mm**Lineweight:** 0.3mm**P00217****Element Name:** Blue072\_5.0mmCircleFilled**Color Token:** Blue072**Description:** Blue072 5.0mm diameter filled circle**Note:** Circle is filled**Diameter:** 5.0mm**P00220****Element Name:** Blue072\_1.5mmCircleFilled**Color Token:** Blue072**Description:** Blue072 1.5mm diameter filled circle**Note:** Circle is filled**Diameter:** 1.5mm**P00232****Element Name:** Lt-Green\_0.5mmOpenCircle**Color Token:** Green362-31**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 0.5mm diameter open circle with a 0.1mm lineweight**Diameter:** 0.5mm**Lineweight:** 0.1mm**P00233****Element Name:** Lt-Green\_0.8mmFilledSquare**Color Token:** Green362-31**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) filled square with all sides 0.8mm**Note:** Square is filled**Length:** 0.8mm

**P00236****Element Name:** Blue072\_4.25mmOpenCircle**Color Token:** Blue072**Description:** Blue072 4.25mm diameter open circle with 0.6mm lineweight**Diameter:** 4.25mm**Lineweight:** 0.6mm**P00237****Element Name:** Black\_0.2mm\_1.0mmOpenSquare**Color Token:** Black**Description:** Black 0.2mm lineweight open square with all sides 1.0mm**Lineweight:** 0.2mm**Length:** 1.0mm**P00238****Element Name:** Black\_Railway\_Turntable**Color Token:** Black**Description:** Black 1.5mm diameter open circle with a 45 degree line in the center and 0.15mm lineweights**Note:** Interior line orientation is 45 degrees to South neatline centered in the circle.**Diameter:** 1.5mm**Lineweight:** 0.15mm**P00239****Element Name:** Black\_0.35mmFilledDot**Color Token:** Black**Description:** Black 0.35mm diameter filled circle**Note:** Circle is filled**Diameter:** 0.35mm**P00250****Element Name:** Lt-Green\_1.0mmFilledCircle**Color Token:** Green362-31**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) 1.0mm diameter filled circle.**Note:** Circle is filled**Diameter:** 1.0mm

## **Annex H – Detailed Drawing Instructions (normative)**

### **Detailed Drawing Instructions**

This Annex contains detailed drawing instructions for the point elements used in Annex A – RTDS Symbols that could not be readily explained in a small set of parameters. The pictures shown in this Annex are not to scale, but have been enlarged to make it easier to view the drawing.

In the Portrayal Standard for Regional Topographic Data Store (RTDS) Data, there are a number of symbols which could be interpreted as having "open" areas such that underlying symbols would show through the "open" portions of the symbol. Some sample symbols are the PT\_Black\_Aerial (Annex A), PT\_Blue072\_Navaid\_VOR\_DME (Annex A), PT\_Black\_ArcheologicalSite (Annex A), PT\_Black\_Bridge\_DrawLift (Annex A), or PT\_Black\_Monument (Annex A), PT\_Cyan\_StorageTank\_Water (Annex A). This listing is not an exhaustive listing, but a small sampling of symbols. In each of the symbols listed, there is an "open" or paper-white area within the bounds of the symbol. It is intended that underlying symbology such as vegetation not show through these openings, but rather that the symbol "mask out" underlying symbols all the way down to the paper.

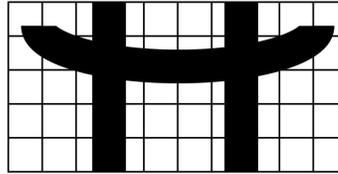
---

**Element Name:** Black\_Cemetery\_Shinto

**Element Reference:** P00180

**Element Type:** Point - Shape

**Description:** Black shinto cemetery



Grid squares: 0.2 mm x 0.2 mm  
Overall height: 1.0 mm  
Overall width: 1.85 mm  
Lineweight: 0.2 mm  
Origin: center of symbol

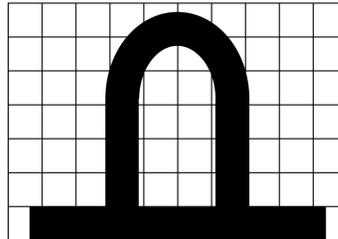
---

**Element Name:** Black\_Cemetery\_Unknown

**Element Reference:** P00126

**Element Type:** Point - Shape

**Description:** Black cemetery unknown

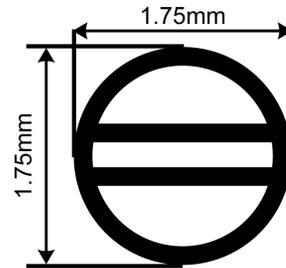


Grid squares: 0.2 mm x 0.2 mm  
Overall height: 1.35 mm  
Overall width: 1.75 mm  
Lineweight: 0.2 mm  
Base line extends 0.5 mm out on each side

Top of tombstone is the upper part of an ellipse 0.85 mm wide by 1.0 mm high  
Origin: center of base

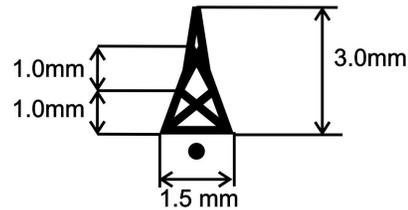
---

**Element Name:** Black\_Checkpoint  
**Element Reference:** P00132  
**Element Type:** Point - Shape  
**Description:** Black checkpoint



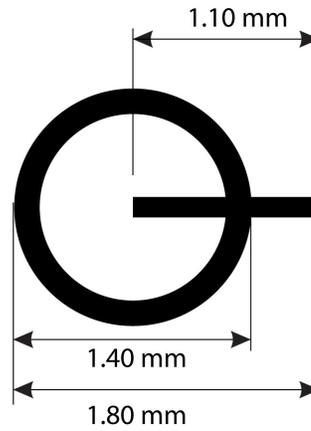
All lineweights : 0.15 mm  
 Horizontal bars are centered in the circle and spaced 0.20 mm apart  
 Origin: Center of circle

**Element Name:** Black\_Communication\_Tower  
**Element Reference:** P00155  
**Element Type:** Point - Shape  
**Description:** Black communication tower



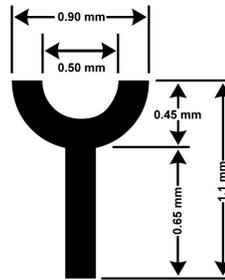
Lineweight (all): 0.20mm  
 Dot 0.4mm circle with a gap of 0.2mm between edge of dot and edge of tower base.  
 Lattice:  
 Bottom corner to 1.0 mm up along edge  
 1.0 mm up edge to 2.0 mm up along edge  
 Angles:  
 Base to "Mid": 70 degrees  
 "Mid" to "Top": 81.5 degrees  
 Origin: Center of dot

**Element Name:** Black\_Crane  
**Element Reference:** P00131  
**Element Type:** Point - Shape  
**Description:** Black crane



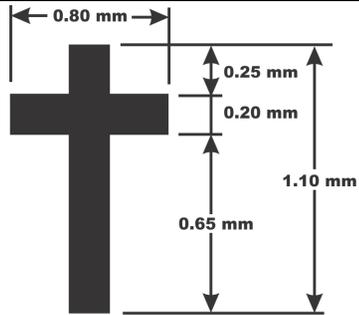
All lineweights: 0.15 mm  
 Origin: center of circle

**Element Name:** Black\_Crescent  
**Element Reference:** P00014  
**Element Type:** Point - Shape  
**Description:** Black crescent



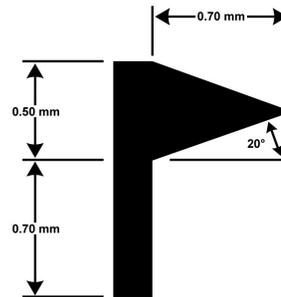
All Lineweights: 0.20 mm  
 Half circle is centered on staff  
 Origin: Base of staff

**Element Name:** Black\_Cross  
**Element Reference:** P00013  
**Element Type:** Point - Shape  
**Description:** Black cross



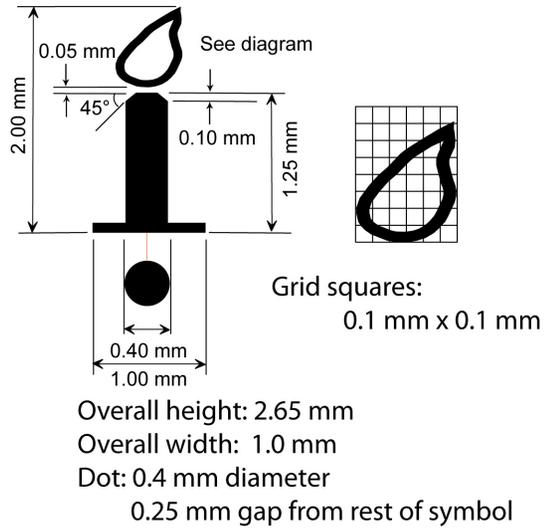
Cross linewidths : 0.20 mm  
 Origin : Base of cross

**Element Name:** Black\_Flag  
**Element Reference:** P00016  
**Element Type:** Point - Shape  
**Description:** Black flag

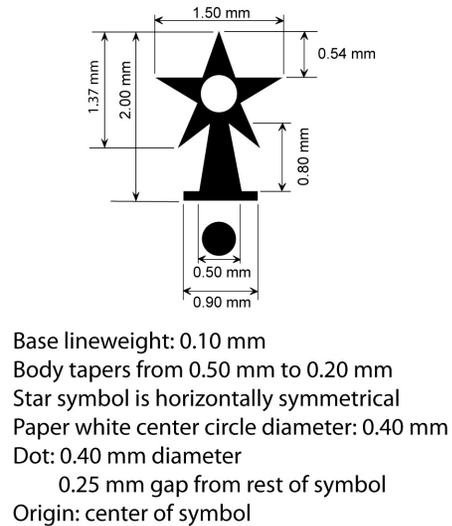


Staff linewidth: 0.2 mm  
 Origin: Bottom - center of staff

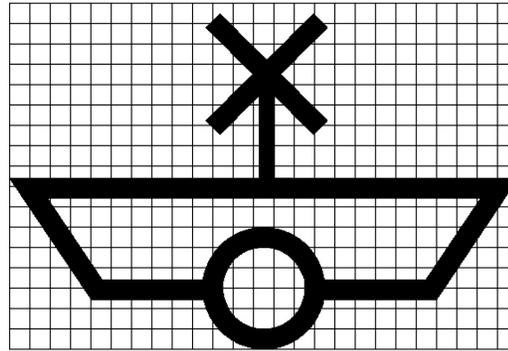
**Element Name:** Black\_Flarepipe  
**Element Reference:** P00145  
**Element Type:** Point - Shape  
**Description:** Black flarepipe



**Element Name:** Black\_Lighthouse  
**Element Reference:** P00135  
**Element Type:** Point - Shape  
**Description:** Black lighthouse

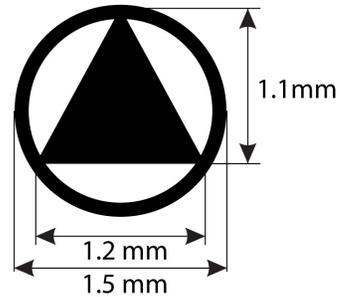


**Element Name:** Black\_LightVessel  
**Element Reference:** P00192  
**Element Type:** Point - Shape  
**Description:** Black light vessel



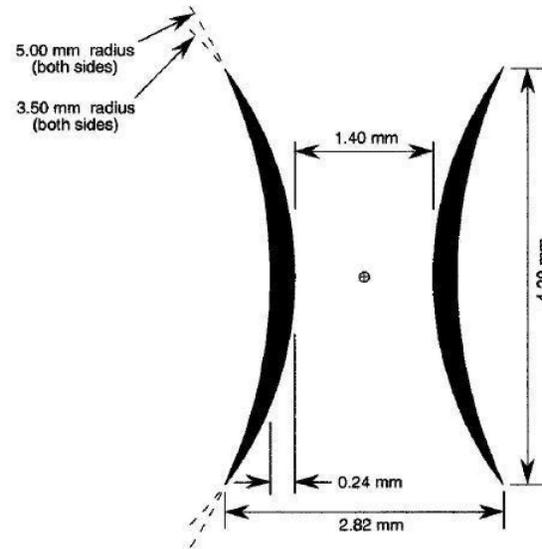
Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 3.3 mm  
 Overall width: 5.0 mm  
 Origin: center of circle

**Element Name:** Black\_MemorialMonument  
**Element Reference:** P00136  
**Element Type:** Point - Shape  
**Description:** Black memorial monument



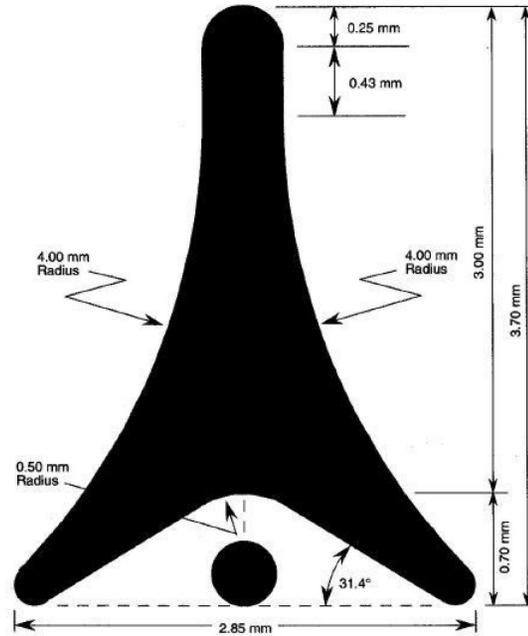
Open circle lineweight: 0.1 mm  
 Triangle fits within open circle  
 and is 1.2 mm wide by 1.1 mm high  
 Origin: center of circle

**Element Name:** Black\_MountainPass  
**Element Reference:** P00029  
**Element Type:** Point - Shape  
**Description:** Black mountain pass



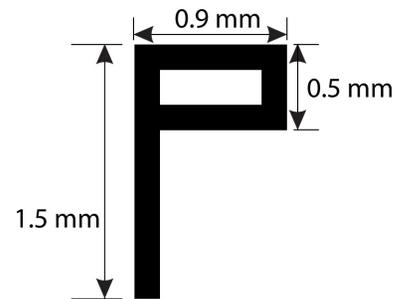
Space between inner and outer arc radii forms the symbol.  
Inner arc radii: 3.50 mm Outer arc radii: 5.00 mm  
Symbol is horizontally and vertically symmetrical.  
Origin: Center of symbol, indicated by: ⊕

**Element Name:** Black\_Offshore\_VO  
**Element Reference:** P00161  
**Element Type:** Point - Shape  
**Description:** Black vertical obstruction



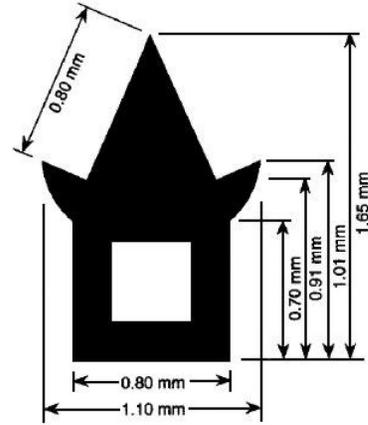
Base Dot: 0.40 mm diameter centered between legs.  
 Base Leg End Radii: 0.125 mm. Tip Radius: 0.25 mm  
 Origin: Center of base dot.

**Element Name:** Black\_OpenSquareFlag  
**Element Reference:** P00185  
**Element Type:** Point - Shape  
**Description:** Black open square flag



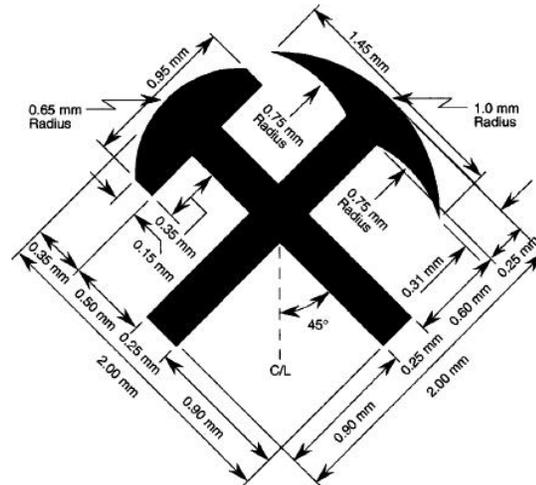
Lineweights: 0.15 mm  
 Origin: bottom center of staff

**Element Name:** Black\_Pagoda  
**Element Reference:** P00019  
**Element Type:** Point - Shape  
**Description:** Black pagoda



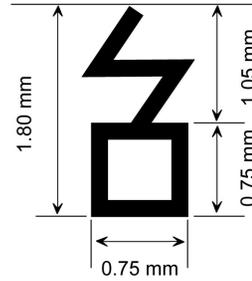
Box lineweight: 0.20 mm  
 Arc radii: 0.44 mm  
 Top is horizontally symmetrical  
 Origin: Center of open square

**Element Name:** Black\_PickAxeShovel  
**Element Reference:** P00001  
**Element Type:** Point - Shape  
**Description:** Black pickaxe and shovel



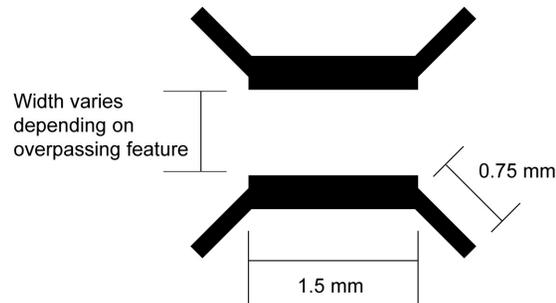
Lineweights : 0.25 mm  
 Origin : Intersection of handles

**Element Name:** Black\_PowerSubstation  
**Element Reference:** P00138  
**Element Type:** Point - Shape  
**Description:** Black power substation



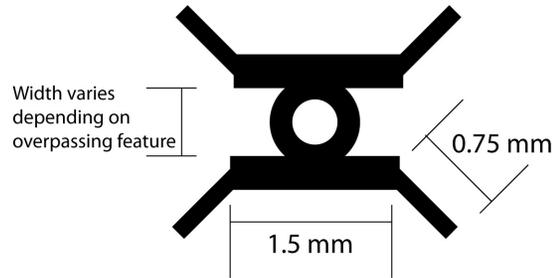
All lineweights: 0.15 mm  
 Top section is made of a  
 0.60 mm line at 59 degrees  
 0.70 mm line at 180 degrees  
 0.60 mm line at 59 degrees  
 centered on the box  
 Origin: center of symbol

**Element Name:** Black\_PT\_Bridge  
**Element Reference:** P00188  
**Element Type:** Point - Shape  
**Description:** Black point bridge (fixed)



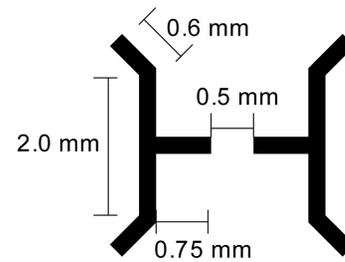
Lineweight for horizontal bridge line: 0.3 mm  
 Lineweight for 45 degree wingtick: 0.15 mm  
 Width varies depending on overpassing feature  
 Origin: center of symbol

**Element Name:** Black\_PT\_Bridge\_DrawLift  
**Element Reference:** P00202  
**Element Type:** Point - Shape  
**Description:** Black point bridge (draw-lift)



Lineweight for horizontal bridge line: 0.3 mm  
 Lineweight for 45 degree wingtick: 0.15 mm  
 Lineweight for circle: 0.2 mm  
 Width varies depending on overpassing feature  
 Origin: center of symbol

**Element Name:** Black\_PT\_Tunnel  
**Element Reference:** P00151  
**Element Type:** Point - Shape  
**Description:** Black point tunnel



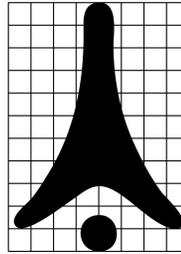
All lineweights: 0.2 mm  
 All headline lengths: 2.0 mm  
 All wingtick lengths: 0.6 mm  
 All wingticks connected at a multiple of 45 degrees to headline  
 Gap distance: 0.5 mm

**Element Name:** Black\_Rig\_Inland

**Element Reference:** P00162

**Element Type:** Point - Shape

**Description:** Black rig inland



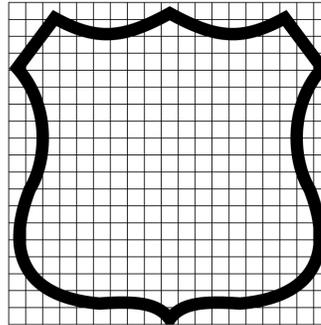
Base dot : 0.32 mm diameter  
centered with the symbol  
Base leg end radius : 0.10 mm  
Tip radius : 0.25 mm  
Symbol overall dimensions:  
Height : 2.20 mm, Width : 1.50  
Symbol should closely approximate  
the shape as indicated  
Symbol is horizontally symmetrical  
Grid squares : 0.20 mm x 0.20 m  
Origin : Center of base dot

**Element Name:** Black\_RouteMarker\_National

**Element Reference:** P00159

**Element Type:** Point - Shape

**Description:** Black national route marker



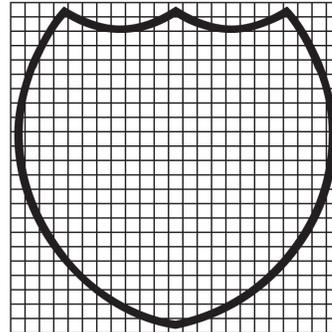
Symbol is horizontally symmetrical and should  
closely approximate the shape as indicated above  
Grid squares: 0.2 mm x 0.2 mm  
Lineweight: 0.15 mm  
Overall dimensions: 3.75 mm x 3.75 mm  
Origin: center of symbol

**Element Name:** Black\_RouteMarker\_NationalMotorway

**Element Reference:** P00139

**Element Type:** Point - Shape

**Description:** Black national motorway route marker



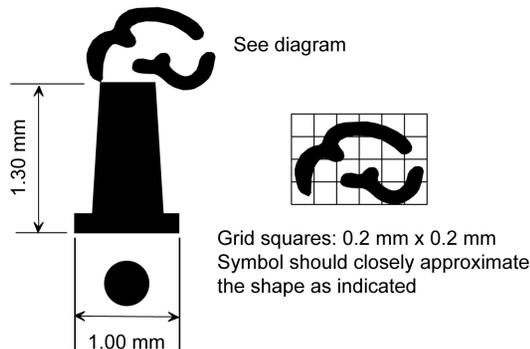
Symbol is horizontally symmetrical and should closely approximate the shape as indicated above  
 Grid squares: 0.2 mm x 0.2 mm  
 Lineweight: 0.10 mm  
 Overall dimensions: 4.5 mm x 4.5 mm  
 Origin: center of symbol

**Element Name:** Black\_Smokestack

**Element Reference:** P00140

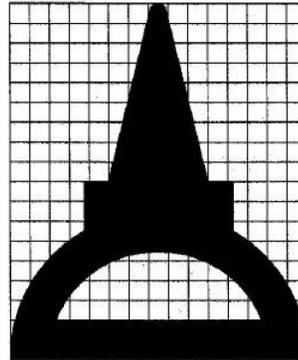
**Element Type:** Point - Shape

**Description:** Black smokestack



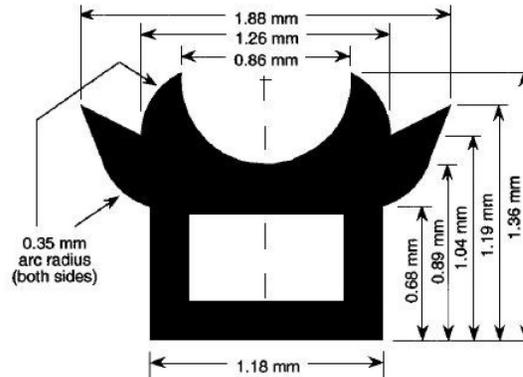
Base lineweight : 0.20 mm  
 Overall width: 1.25 mm  
 Overall height: 2.65 mm  
 Dot: 0.4 mm diameter with a 0.25 mm gap from rest of symbol  
 Origin: center of dot

**Element Name:** Black\_Stupa  
**Element Reference:** P00031  
**Element Type:** Point - Shape  
**Description:** Black stupa



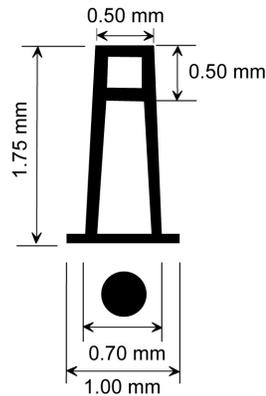
Semi-circle and base lineweights: 0.20 mm  
 Steeple top radius: 0.04 mm  
 Symbol overall dimensions:  
 Height: 1.80 mm, Width: 1.50 mm  
 Symbol should closely approximate the shape as indicated.  
 Grid squares: 0.10 mm x 0.10 mm  
 Origin: Center of circle

**Element Name:** Black\_Temple  
**Element Reference:** P00018  
**Element Type:** Point - Shape  
**Description:** Black temple



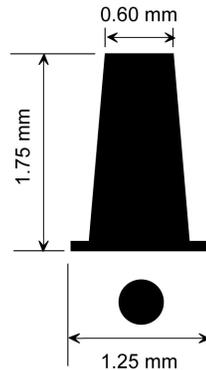
Box lineweight: 0.20 mm  
 Small arc radii: 0.35 mm  
 Large arc radius: 0.43 mm  
 Top is horizontally symmetrical  
 Origin: Center of open rectangle

**Element Name:** Black\_Tower  
**Element Reference:** P00141  
**Element Type:** Point - Shape  
**Description:** Black tower



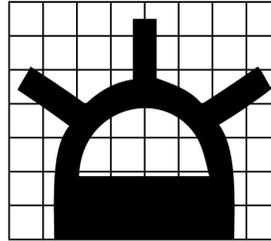
Base lineweight : 0.10 mm  
 All other lineweights: 0.15 mm  
 Dot: 0.4 mm diameter with a  
 0.25 mm gap from rest of symbol  
 Origin: center of dot

**Element Name:** Black\_WaterIntakeTower  
**Element Reference:** P00148  
**Element Type:** Point - Shape  
**Description:** Black water intake tower



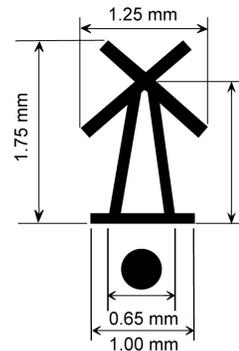
Base lineweight : 0.10 mm  
 Body tapers from 0.6 mm to 0.8 mm  
 Dot: 0.4 mm diameter with a 0.25 mm  
 gap from rest of symbol  
 Origin: center of dot

**Element Name:** Black\_WaterMill  
**Element Reference:** P00147  
**Element Type:** Point - Shape  
**Description:** Black water mill



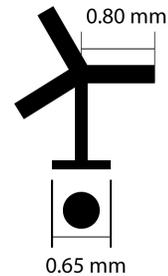
Grid squares: 0.2 mm x 0.2 mm  
 Overall height: 1.3 mm  
 Overall width: 1.5 mm  
 Origin: center of symbol

**Element Name:** Black\_Windmill  
**Element Reference:** P00144  
**Element Type:** Point - Shape  
**Description:** Black windmill



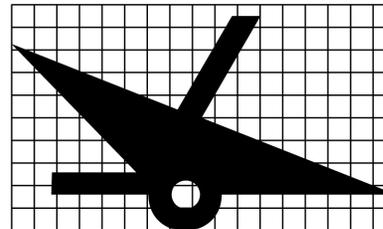
"X" lineweight : 0.12 mm  
 All other lineweights: 0.1 mm  
 Body tapers from 0.65 mm to 0.3 mm  
 Dot: 0.4 mm diameter with a 0.25 mm  
 gap from rest of symbol  
 Origin: center of dot

**Element Name:** Black\_WindTurbine  
**Element Reference:** P00143  
**Element Type:** Point - Shape  
**Description:** Black wind turbine



Lineweights: Base: 0.1 mm; Staff: 0.15 mm  
Blades: lineweight: 0.2 mm; lengths: 0.80 mm  
connected to staff at 0, 120, and 212 degrees  
Dot: 0.4 mm diameter with a gap of 0.25 mm  
from rest of symbol  
Overall height: 2.4 mm Overall width: 1.5 mm  
Origin: center of dot

**Element Name:** Black\_Wreck  
**Element Reference:** P00206  
**Element Type:** Point - Shape  
**Description:** Black wreck



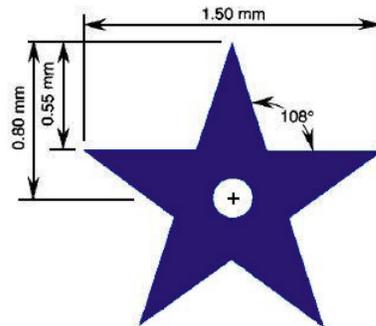
Grid squares: 0.2 mm x 0.2 mm  
Symbol should closely approximate  
the shape as indicated above  
Origin: center of open circle

**Element Name:** Blue072\_Beacon

**Element Reference:** P00025

**Element Type:** Point - Shape

**Description:** Blue072 5-pointed filled star with an open circle in the center



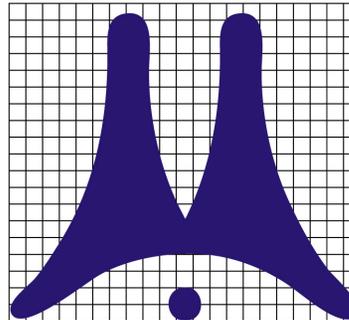
Symbol is horizontally symmetrical  
Open circle diameter: 0.25 mm  
Origin: Center of circle

**Element Name:** Blue072\_Multiple\_VO

**Element Reference:** P00101

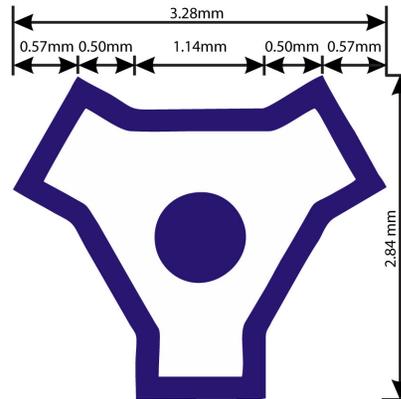
**Element Type:** Point - Shape

**Description:** Blue072 multiple vertical obstruction



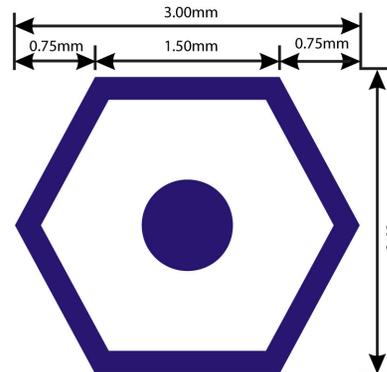
Dot diameter: 0.50 mm  
Bottom arc radius: 1.85 mm  
Symbol overall dimensions:  
Height: 3.70 mm, Width: 4.16 mm  
Symbol should closely approximate the shape as indicated. Dot is aligned to vertical centerline. Symbol is horizontally symmetrical.  
Grid squares: 0.20 mm x 0.20 mm  
Origin: Center of dot

**Element Name:** Blue072\_Navaid\_TACAN  
**Element Reference:** P00215  
**Element Type:** Point - Shape  
**Description:** Blue072 navaid tacan



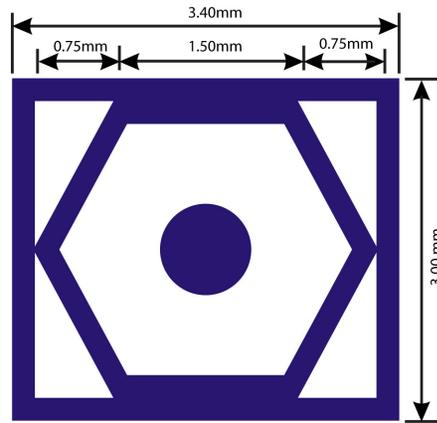
Posicut is equilaterally symmetrical  
 All interior angles: 120  
 Inner dot diameter: 0.80 mm  
 Outside lineweight: 0.20 mm  
 Origin: Center of dot

**Element Name:** Blue072\_Navaid\_VOR  
**Element Reference:** P00213  
**Element Type:** Point - Shape  
**Description:** Blue072 navaid vor



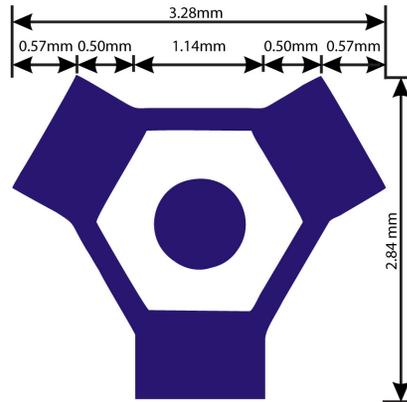
Posicut is equilaterally symmetrical  
 All interior angles: 120  
 Inner dot diameter: 0.80 mm  
 Hexagon lineweight: 0.20 mm  
 Origin: Center of dot

**Element Name:** Blue072\_Navaid\_VOR\_DME  
**Element Reference:** P00216  
**Element Type:** Point - Shape  
**Description:** Blue072 navaid vor dme



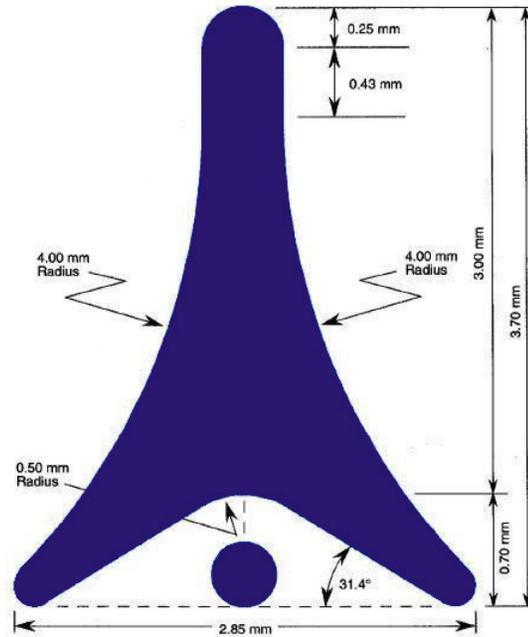
Hexagon/dot dimensions same as Blue072\_Navaid\_VOR.  
 Inner edge of rectangle is tangent with outer hexagon perimeter.  
 All lineweights : 0.20 mm Origin : Center of dot

**Element Name:** Blue072\_Navaid\_VORTAC  
**Element Reference:** P00214  
**Element Type:** Point - Shape  
**Description:** Blue072 navaid vortac



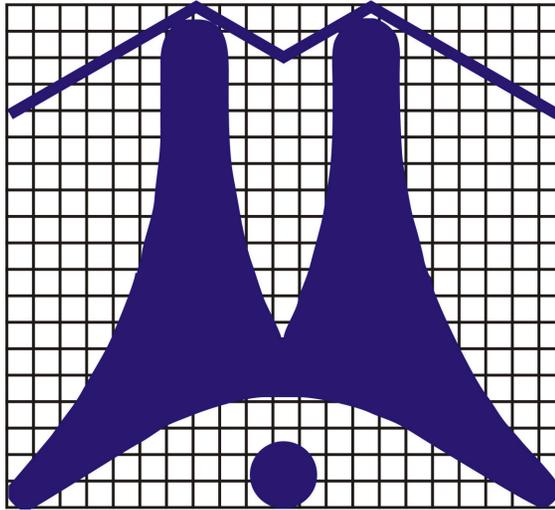
Posicut is equilaterally symmetrical  
 All interior angles: 120  
 Inner dot diameter: 0.80 mm  
 Hexagon lineweight: 0.20 mm  
 Origin: Center of dot

**Element Name:** Blue072\_Obstruction  
**Element Reference:** P00008  
**Element Type:** Point - Shape  
**Description:** Blue072 vertical obstruction



Base Dot: 0.40 mm diameter centered between legs.  
 Base Leg End Radii: 0.125 mm. Tip Radius: 0.25 mm  
 Origin: Center of base dot.

**Element Name:** Blue072\_PT\_LinearObstruction  
**Element Reference:** P00113  
**Element Type:** Point - Shape  
**Description:** Blue072 linear vertical obstruction

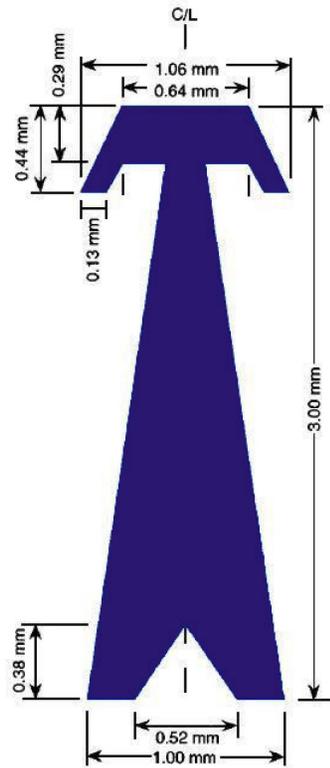


Dot diameter: 0.50 mm  
Bottom arc radius: 1.85 mm  
Multiple Vertical Obstruction  
Symbol overall dimensions:  
Height: 3.70 mm, Width: 4.16 mm  
Linear zigzag top:  
Lineweight: 0.40 mm  
Segments 1 and 4: 1.60 mm  
Segments 2 and 3: 0.75 mm  
Segments oriented 30 degrees  
from horizontal.

Symbol should closely approximate the shape as indicated. Dot is aligned to vertical centerline. Symbol is horizontally symmetrical.

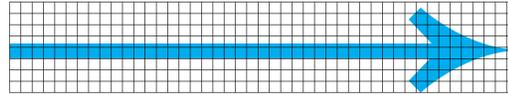
Grid squares: 0.20 mm x 0.20 mm  
Origin: Center of dot

**Element Name:** Blue072\_Pylon  
**Element Reference:** P00020  
**Element Type:** Point - Shape  
**Description:** Blue072 pylon



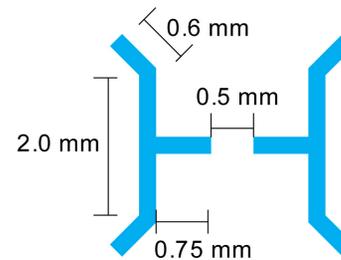
Origin: Bottom center of pylon

**Element Name:** Cyan\_FlowArrow  
**Element Reference:** P00200  
**Element Type:** Point - Shape  
**Description:** Cyan flow arrow



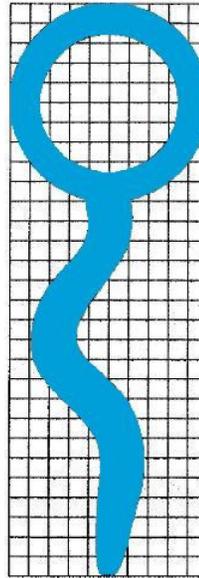
Grid squares: 0.2 mm x 0.2 mm  
Symbol should closely approximate the  
shape as indicated above  
Overall height: 1.5 mm  
Overall length: 9.0 mm  
Origin: center of symbol

**Element Name:** Cyan\_PT\_Tunnel  
**Element Reference:** P00150  
**Element Type:** Point - Shape  
**Description:** Cyan point tunnel



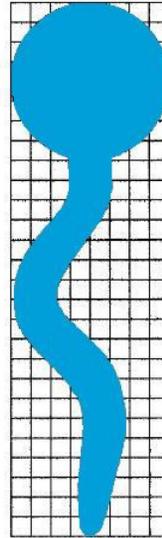
All lineweights: 0.2 mm  
All headline lengths: 2.0 mm  
All wingtick lengths: 0.6 mm  
All wingticks connected at a  
multiple of 45 degrees  
to headline  
Gap distance: 0.5 mm

**Element Name:** Cyan\_SpringIntermittent  
**Element Reference:** P00032  
**Element Type:** Point - Shape  
**Description:** Cyan spring (intermittent)



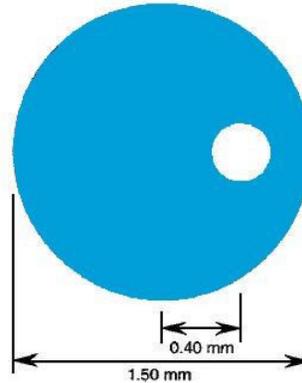
Symbol overall dimensions:  
Height: 2.90 mm, Width: 1.00 mm  
Symbol's tail should closely approximate  
the free-form shape as indicated above.  
Grid squares: 0.10 mm x 0.10 mm  
Origin: Center of circle

**Element Name:** Cyan\_SpringPerennial  
**Element Reference:** P00026  
**Element Type:** Point - Shape  
**Description:** Cyan spring (perennial)



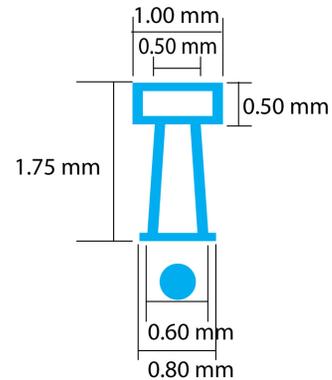
Symbol overall dimensions:  
Height: 2.70 mm, Width: 0.80 mm  
Symbol's tail should closely approximate  
the free-form shape as indicated above.  
Grid squares: 0.10 mm x 0.10 mm  
Origin: Center of dot

**Element Name:** Cyan\_VanishingPoint  
**Element Reference:** P00028  
**Element Type:** Point - Shape  
**Description:** Cyan vanishing point



Open circle diameter: 0.35 mm  
 Open circle is offset 0.40 mm  
 to the right of symbol center.  
 Origin: Center of symbol

**Element Name:** Cyan\_WaterTower  
**Element Reference:** P00142  
**Element Type:** Point - Shape  
**Description:** Cyan water tower



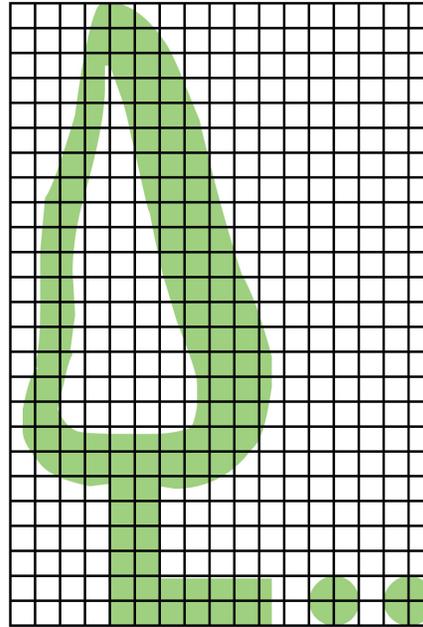
Overall height: 2.35 mm width: 1.0 mm  
 Lineweight: 0.1mm  
 Dot: 0.4 mm diameter with a  
 0.25 mm gap from rest of symbol  
 Origin: center of dot

**Element Name:** Lt-Green\_Tree

**Element Reference:** P00231

**Element Type:** Point - Shape

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) tree



Base/Trunk lineweights: 0.20 mm  
Dot diameter: 0.20 mm  
Symbol overall dimensions: Height: 2.50 mm  
Width: 1.65 mm. Symbol should closely approximate the free-form shape as indicated above. Grid squares: 0.10 mm x 0.10 mm  
Origin: Centerline intersection of trunk and base

## Annex I – Patterns

### Patterns

Samples of the Patterns referenced in the RTDS Symbology Standard Annex A are provided in this annex. The Element Name and Element Reference provide the link to Annex A – RTDS Symbols. Since the surface patterns were inherited from the MIL-STD-2410 document, a historical reference has been made in the document for each of the patterns in Annex I to identify its original pattern number in the MIL-STD-2410 document. For example, the field “*MIL-STD-2402 Reference: Area Pattern #108*” means that the area pattern was originally AP-108 in the MIL-STD-2410 document dated 31 January 1995. The reader may wish to reference the listed area pattern in the MIL-STD-2410 dated 31 January 1995, for additional information.

All pattern samples provided in Annex I are shown in their standard (default) orientation. Some area patterns will require rotation to correctly portray the depicted features with ground truth (for example Sand Dunes).

## Patterns

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**Element Name:** Black\_LP15Fill

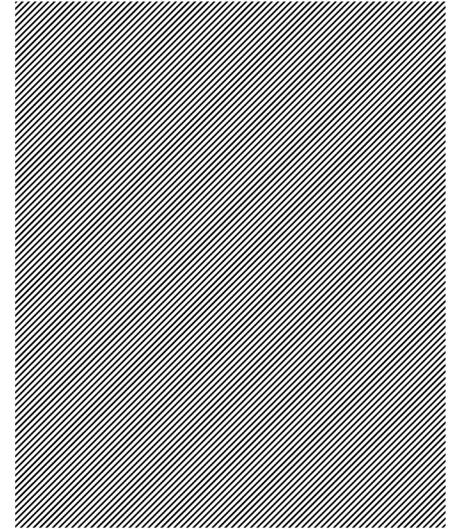
**Element Reference:** L00356

**Element Type:** Area - Pattern

**Description:** Black Diagonal Line Fill - 35% coverage, 40L, 45 degree angle lines.

**MIL-STD-2410**

**Reference:** Line Pattern #15



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**Element Name:** Black\_PeateryFill

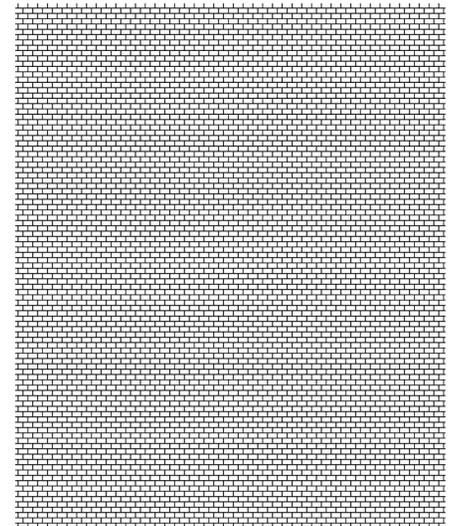
**Element Reference:** A00001

**Element Type:** Area - Pattern

**Description:** Black Peat Fill

**MIL-STD-2410**

**Reference:** Area Pattern #129



## Patterns

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**Element Name:** Black\_ShantyTownFill

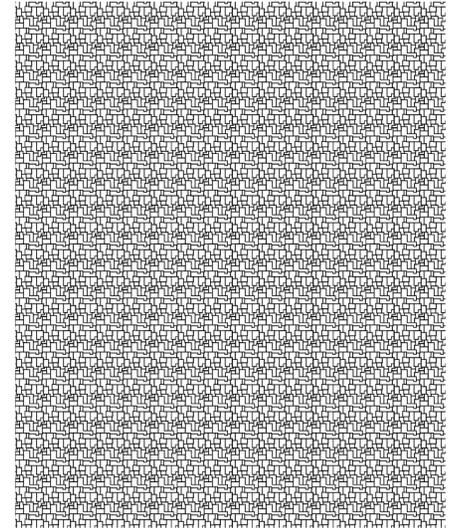
**Element Reference:** A00014

**Element Type:** Area - Pattern

**Description:** Black Shantytown Fill

**MIL-STD-2410**

**Reference:** Area Pattern #132



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**Element Name:** Blue072\_AP98Fill

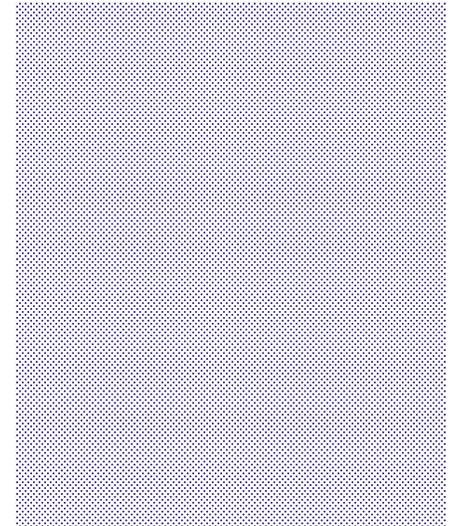
**Element Reference:** L00277

**Element Type:** Area - Pattern

**Description:** Blue072 ADIZ, Buffer Zone Fill

**MIL-STD-2410**

**Reference:** Area Pattern #98



## Patterns

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**Element Name:** Cyan\_AP103Fill

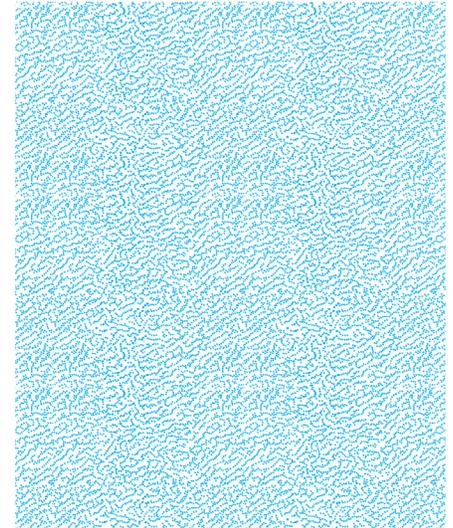
**Element Reference:** A00016

**Element Type:** Area - Pattern

**Description:** Cyan Ice Cap, Polar Ice, Sabkha Fill

**MIL-STD-2410**

**Reference:** Area Pattern #103



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**Element Name:** Cyan\_AP12\_Fill

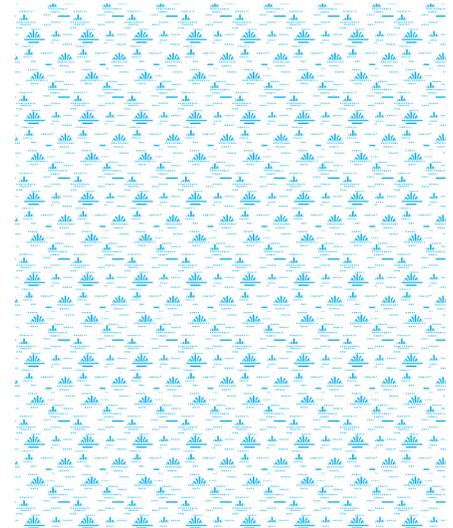
**Element Reference:** A00018

**Element Type:** Area - Pattern

**Description:** Cyan Bog, Marsh Fill

**MIL-STD-2410**

**Reference:** Area Pattern #12



## Patterns

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**Element Name:** Cyan\_DryDrainageFill

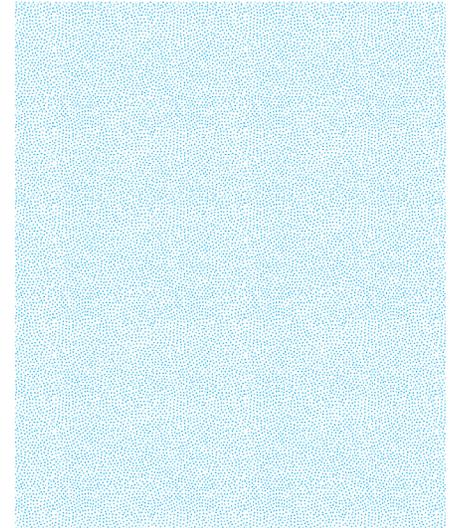
**Element Reference:** A00020

**Element Type:** Area - Pattern

**Description:** Cyan Dry Drainage Fill

**MIL-STD-2410**

**Reference:** Area Pattern #95



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**Element Name:** Cyan\_GlacierFill

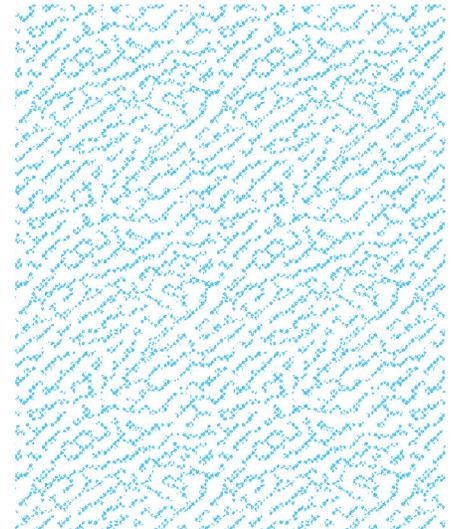
**Element Reference:** A00017

**Element Type:** Area - Pattern

**Description:** Cyan Glacier Fill

**MIL-STD-2410**

**Reference:** Area Pattern #104



## Patterns

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**Element Name:** Cyan\_LP15Fill

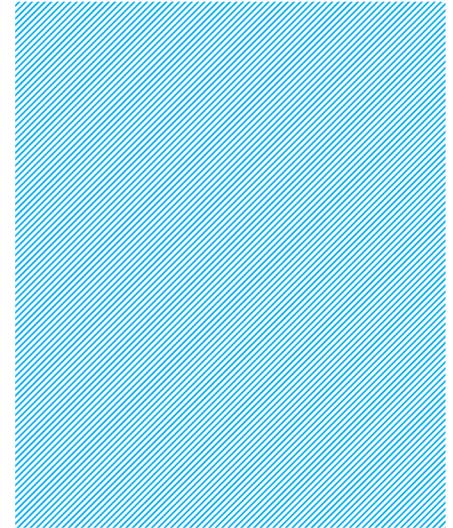
**Element Reference:** A00021

**Element Type:** Area - Pattern

**Description:** Cyan Diagonal Line Fill - 35% coverage, 40L, 45 degree angle lines.

**MIL-STD-2410**

**Reference:** Line Pattern #15



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**Element Name:** Cyan\_LSIFill

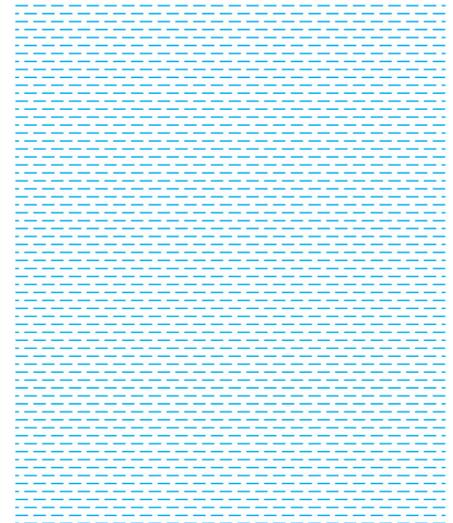
**Element Reference:** A00015

**Element Type:** Area - Pattern

**Description:** Cyan Land Subject to Inundation Fill

**MIL-STD-2410**

**Reference:** Area Pattern #10



## Patterns

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**Element Name:** Cyan\_RiceFill

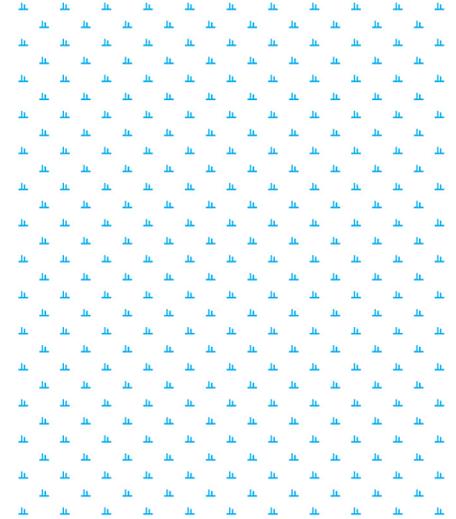
**Element Reference:** A00019

**Element Type:** Area - Pattern

**Description:** Cyan Rice Fill

**MIL-STD-2410**

**Reference:** Area Pattern #4



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**Element Name:** Cyan\_SaltFlat\_Fill

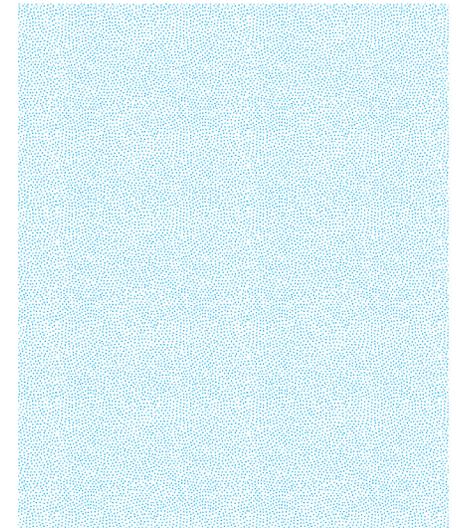
**Element Reference:** A00058

**Element Type:** Area - Pattern

**Description:** Cyan Salt Flat Fill

**MIL-STD-2410**

**Reference:** Area Pattern #95



## Patterns

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**Element Name:** Dk-Brown1815\_CrescentDunesFill

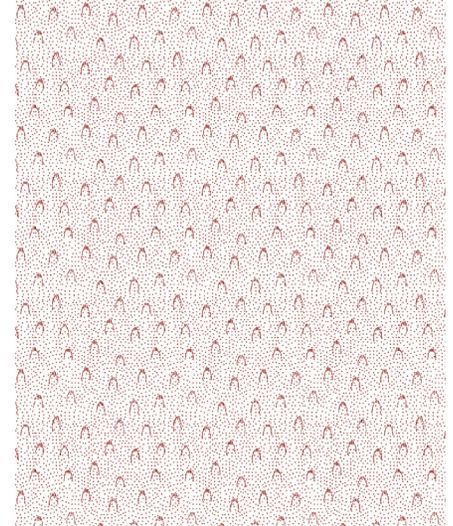
**Element Reference:** A00031

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Crescent Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #108



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**Element Name:** Dk-Brown1815\_DistortedSurfaceFill

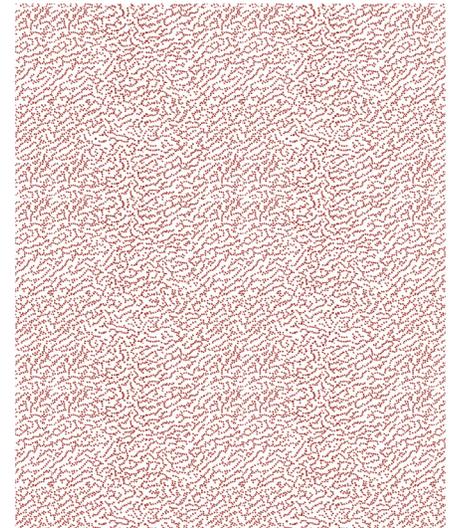
**Element Reference:** A00030

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Distorted Surface Fill

**MIL-STD-2410**

**Reference:** Area Pattern #103



## Patterns

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**Element Name:** Dk-Brown1815\_DomeDunesFill

**Element Reference:** A00042

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Dome Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #126



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**Element Name:** Dk-Brown1815\_LinearDunesFill

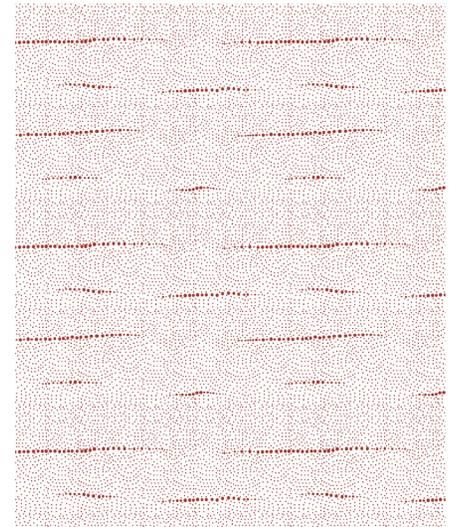
**Element Reference:** A00043

**Element Type:** Area - Pattern

**Description:** DK-Brown1815 Linear Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #118



## Patterns

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**Element Name:** Dk-Brown1815\_MoraineFill

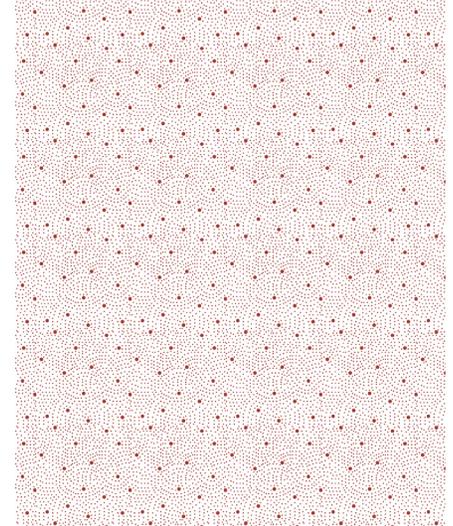
**Element Reference:** A00022

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Moraine Fill

**MIL-STD-2410**

**Reference:** Area Pattern #99



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**Element Name:** Dk-Brown1815\_RippleDunesFill

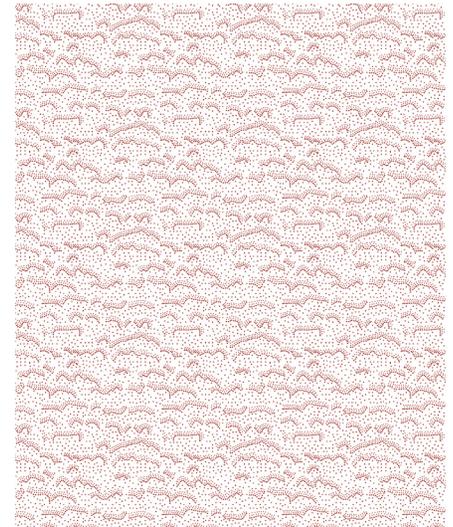
**Element Reference:** A00032

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Ripple Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #112

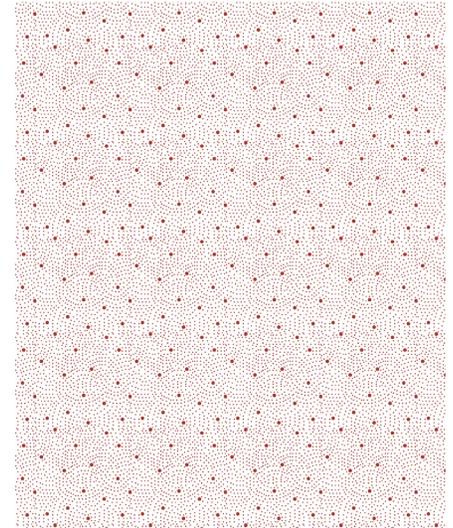


## Patterns

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**Element Name:** Dk-Brown1815\_SandandGravelFill  
**Element Reference:** A00036  
**Element Type:** Area - Pattern  
**Description:** Dk-Brown1815 Sand and Gravel Fill

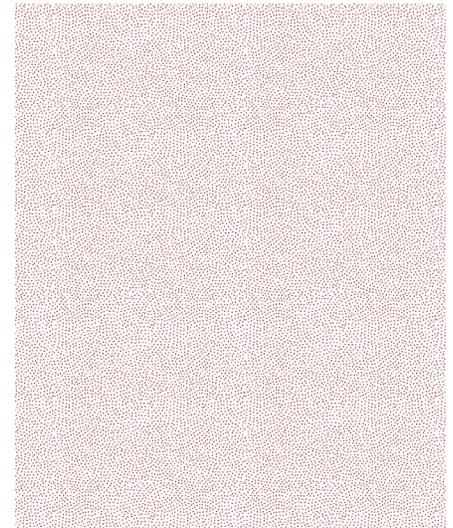
**MIL-STD-2410**  
**Reference:** Area Pattern #99



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**Element Name:** Dk-Brown1815\_SandFill  
**Element Reference:** A00035  
**Element Type:** Area - Pattern  
**Description:** Dk-Brown1815 Sand Fill

**MIL-STD-2410**  
**Reference:** Area Pattern #95



## Patterns

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**Element Name:** Dk-Brown1815\_StarDunesFill

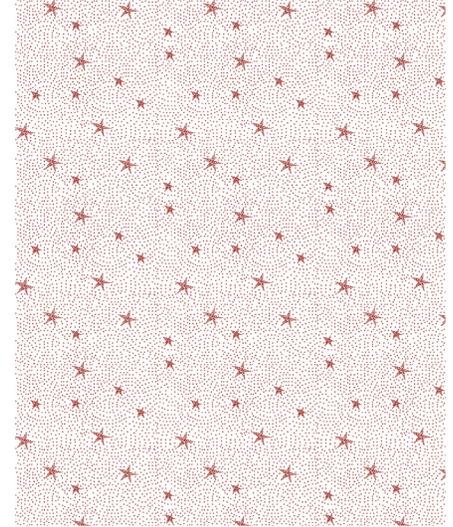
**Element Reference:** A00033

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Star Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #120



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**Element Name:** Dk-Brown1815\_TransverseDunesFill

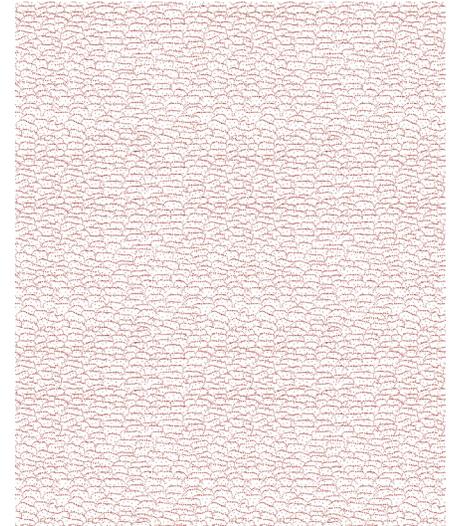
**Element Reference:** A00034

**Element Type:** Area - Pattern

**Description:** Dk-Brown1815 Transverse Sand Dunes Fill

**MIL-STD-2410**

**Reference:** Area Pattern #127



## Patterns

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**Element Name:** Lt-Green\_GrasslandFill

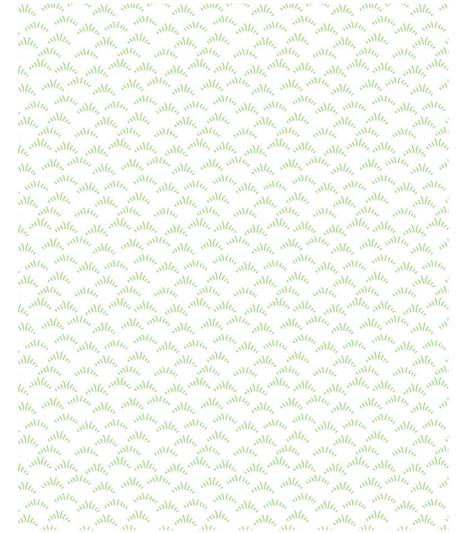
**Element Reference:** A00109

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Grassland Fill

**MIL-STD-2410**

**Reference:** Area Pattern #66



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**Element Name:** Lt-Green\_MangroveFill

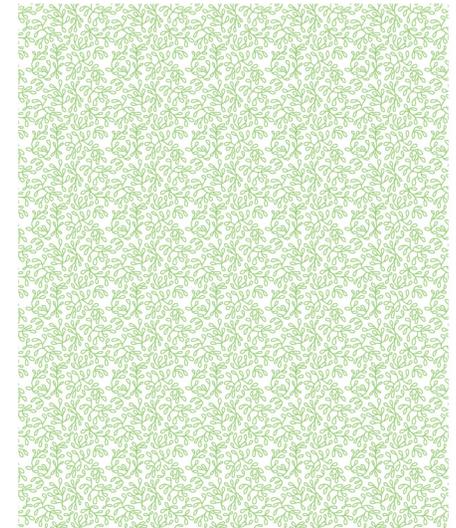
**Element Reference:** A00115

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Mangrove Fill area pattern

**MIL-STD-2410**

**Reference:** Area Pattern #8



## Patterns

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**Element Name:** Lt-Green\_NipaPalmFill

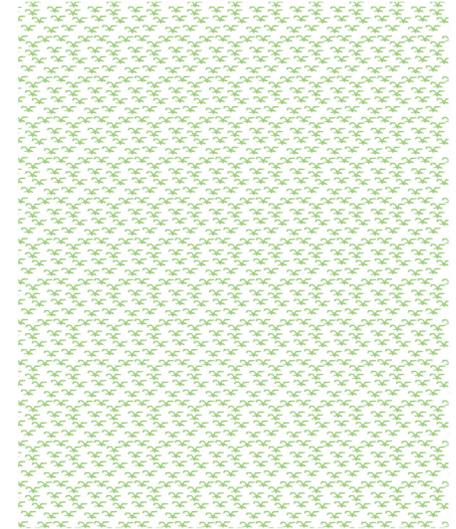
**Element Reference:** A00108

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Nipa Palm Fill area pattern

**MIL-STD-2410**

**Reference:** Area Pattern #7



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**Element Name:** Lt-Green\_OrchardPlantationFill

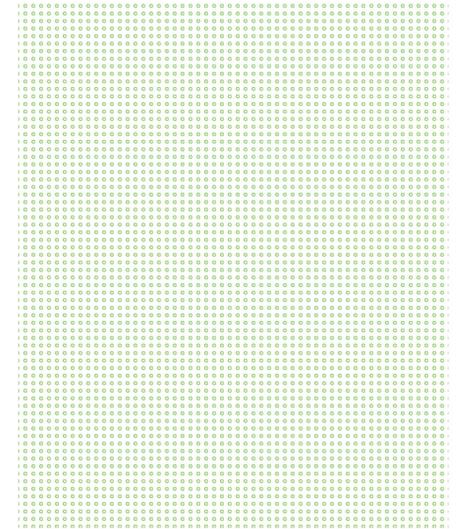
**Element Reference:** A00112

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Orchard/Plantation Fill

**MIL-STD-2410**

**Reference:** Area Pattern #74



**Patterns**

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**Element Name:** Lt-Green\_ScatteredTreesFill

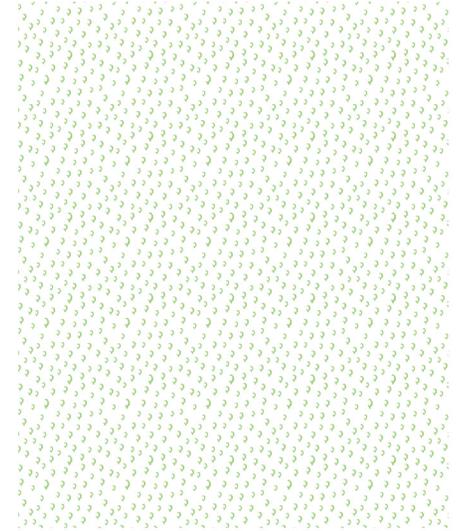
**Element Reference:** A00107

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Scattered Trees Fill

**MIL-STD-2410**

**Reference:** Area Pattern #44



**Element Name:** Lt-Green\_VineyardHopFill

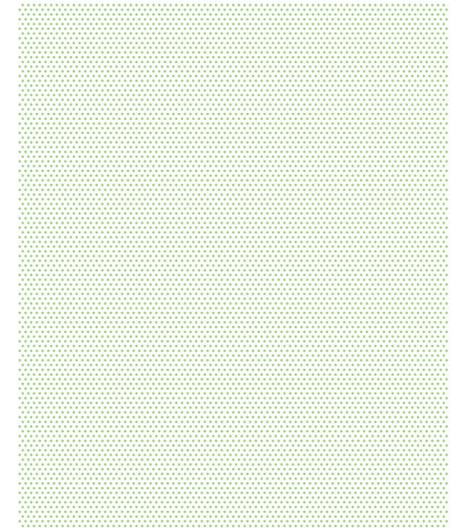
**Element Reference:** A00111

**Element Type:** Area - Pattern

**Description:** Lt-Green (Cyan 31% 75 degree angle screen coincident with Yellow 79% 30 degree angle screen) Vineyard/Hops Fill

**MIL-STD-2410**

**Reference:** Area Pattern #77



## **Annex J - Conformance (normative)**

### **Conformance**

For symbols to conform to this standard they must meet the following criteria.

- Symbols shall be “visually equivalent” to those symbol graphics in the standard. Visually equivalent symbols are those that would be recognized by users as representing the same entity or information. Symbols on actual maps shall conform to the delineation of the geospatial feature (surface, curve, point). Shapes shown in this standard are representative examples only. All labels shall be shown in accordance with this standard. Conditional attribute labels will be filled in with the applicable information associated with the entity instance rather than the generic attribute labels shown in the standard.
- Colors on printed maps shall be in accordance with Annex C – Color.

## **Annex K – Additional Information**

### **Additional Information**

This portrayal standard was prepared by the National Center for Geospatial Intelligence Standards (NCGIS) for Regional Topographic Data Store (RTDS) producers, and other NSG members who intend to generate map products from RTDS data.

Comments, suggestions or questions on this document should be addressed to the National Geospatial-Intelligence Agency, National Center for Geospatial Intelligence Standards (NCGIS), Mail Stop N32-OCIOCE, 7500 GEOINT Drive, Springfield, VA 22151, or emailed to [ncgis-mail@nga.mil](mailto:ncgis-mail@nga.mil).

## **Annex L – Index**

### **Index**

The features symbolized in Annex A are listed here based on three different sort orders. First the items are sorted based upon RTDS Feature Name. Second the items are sorted by Feature Code. Finally, a list of “former” names by which NGA and related community may know the feature/symbol is used as a sort order. The text in the following Index pages have been linked with the location in Annex A where the given feature class / symbol information begins. If there is more than one symbol for the selected feature class, the reader may have to scroll down through the document to locate the symbol which he/she is interested in reviewing.

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The National Geospatial-Intelligence Agency (NGA) and related community have used various names over the years to identify features and/or feature instances. This section of Annex L (Index) "maps" some of the more common former names into the Regional Topographic Data Store schema.

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| Dike/Dyke                   | Flood_Control_Structure   | BI044       | A - 152     |
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| Distorted Surface           | Soil_Surface_Region       | DA010       | A - 318     |
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| Railway Station           | Transportation_Station          | AQ125              | A - 344            |
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| Viaduct                     | Bridge                                    | AQ040              | A - 22             |
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| Weir                        | Dam                                       | BI020              | A - 89             |
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