METRIC
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SUPERSEDING
See Section 6.3

DETAIL SPECIFICATION GEOSPATIAL SYMBOLS FOR DIGITAL DISPLAYS (GeoSym®)

This specification is for use by all departments and agencies of the Department of Defense.

1. SCOPE

- 1.1 Scope. This detail specification defines the content and format for the National Geospatial-Intelligence Agency (NGA) Geospatial Symbols for Digital Displays (GeoSym). Although the GeoSym development was undertaken specifically to support the display of Vector Product Format (VPFTM) data encoded with the Feature and Attribute Coding Catalogue (FACC), the graphic files and symbol assignment files which make up GeoSym may be used with data which is not encoded in FACC if a mapping from the native encoding scheme to the FACC equivalent can be made.
- 1.2 <u>Purpose.</u> This detail specification defines the format and content of the symbol assignment files that comprise the GeoSym product. For the format and content of the symbol files, refer to the Symbols and Annotation for Maps and Imagery or the Military Handbook, Geospatial Symbols for Digital Displays. Symbols and symbol assignment files are provided to support the display of the following VPF products:

Digital Nautical Chart (DNC®)
Digital Topographic Data (DTOPTM)
Foundation Feature Data (FFDTM)
Tactical Oceanic Data Level 0 (TODTM)
Tactical Oceanic Data Level 1 (TODTM)
Tactical Oceanic Data Level 2 (TODTM)
Tactical Oceanic Data Level 4 (TODTM)
Tactical Oceanic Data Level 4 (TODTM4)
Urban Vector Map (UVMapTM)
Vector Product Interim Terrain Data (VITDTM)
Vector Map Level 0 (VmapTM0)
Vector Map Level 1 (VmapTM1)
Vector Smart Map Level 2 (VmapTM2)
World Vector Shoreline Plus (WVSPlus®)

Comments, suggestions or questions on this document should be addressed to the National Geospatial-Intelligence Agency's National Center for Geospatial Intelligence Standards (NCGIS), Mail Stop P-24, 12310 Sunrise Valley Drive, Reston, VA 20191-3449, or emailed to ncgis-mail@nga.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at www.dodssp.daps.mil.

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2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this specification. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this specification whether or not they are listed.

2.2 Government documents.

2.2.1 <u>Specifications</u>, <u>standards</u>, <u>and handbooks</u>. The following specifications, standards, and handbooks form part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-PRF-89023	Digital Nautical Chart, 19 Dec 1997	
	Amendment 1, 23 Feb 1999	
MIL-PRF-89037A	Digital Topographic Data, 1 August 2002	
MIL-PRF-89049/10	Tactical Ocean Data Level O	
MIL-PRF-89049/11	Tactical Ocean Data Level 1	
MIL-PRF-89049/12	Tactical Ocean Data Level 2	
MIL-PRF-89049/14	Tactical Ocean Data Level 4, 21 Mar 2002	
MIL-PRF-89035A	Urban Vector Map, 1 August 2002	
MIL-PRF-89033	Vector Map Level 1, 1 June 1995	
	Amendment 1, 27 May 1998	
MIL-PRF-89039	Vector Map Level 0, 9 Feb 1995	
	Amendment 2, 27 June 2002	
MIL-PRF-89040A	Vector Product Interim Terrain Data,	
	8 May 1996,	
	Interim Amendment 1, 23 May 2000	
MIL-PRF-0089049 (NIMA)	VPF Products, General Specification	
	24 Nov 1998	
MIL-PRF-0089012A(NIMA)	World Vector Shoreline Plus, 24 Aug 1999	

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-2402	Mapping, Charting and Geodesy
	Symbols for Graphic Products
MIL-STD-2407	Interface Standard for Vector Product
	Format

Change Notice 1, 26 October 1999

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-857 Department of Defense Handbook, Geospatial Symbols for Digital Displays

(Copies of these documents are available online at http://assist.daps.dla.mil/quicksearch/ or www.dodssp.daps.mil, or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. Copies of draft documents can be obtained from the National Geospatial-Intelligence Agency's National Center for Geospatial Intelligence Standards (NCGIS), Mail Stop P-24, 12310 Sunrise Valley Drive,

Reston, VA 20191-3449, or at http://www.nga.mil/cda/article/0,2311,3104 12141 115326,00.html, or request by email to ncgis-mail@nga.mil.)

2.2.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DMA PRODUCT SPECIFICATIONS

PS/2BD/040	DMA Product Specifications for Bottom
	Contour Charts (All Series), 4th Edition, March
	1985
PS/2DA/013	DMA Product Specifications for Hull
	Integrity Test Site (HITS) Charts, 2nd Edition,
	December 1984
PS/2DA/010	DMA Product Specifications for Navy
	Operating Area (OPAREA) Charts, 1st Edition,
	December 1984

(Copies of ex-DMA Product Specifications are available from the National Geospatial-Intelligence Agency's National Center for Geospatial Intelligence Standards (NCGIS), Mail Stop P-24, 12310 Sunrise Valley Drive, Reston, VA 20191-3449, or request by email to ncgis-mail@nga.mil.)

Symbology and Annotation for Maps and Imagery (SAMI) CGM profile of the ISO/IEC 8632-1 CGM Standard.

(Copies of this standard are available from ISO, and from NGA at http://www.nga.mil/cda/article/0,2311,3104 12141 115326,00.html.)

Digital Geographic Information Exchange Standard, Part 4: Feature and Attribute Coding Catalogue (FACC).

(Copies of this document are available from www.digest.org)

NGA Feature Data Catalog

Draft MIL-PRF-89049/1	Foundation Feature Data, 30 Nov 1998
Draft MIL-PRF-89049/10A	Tactical Ocean Data Level 0 (RFC N01-
	0220)
Draft MIL-PRF-89049/11A	Tactical Ocean Data Level 1 (RFC N01-
	0220)
Draft MIL-PRF-89049/12A	Tactical Ocean Data Level 2 (RFC N01-
	0220)
Draft MIL-V-89032	Vector Smart Map Level 2, 30 Sept 1993
	Amendment 1, 14 Jan 1994
	Amendment 2, 16 Sept 1994
	Amendment 3, 22 Dec 1994

(Copies of these documents are available from the National Geospatial-Intelligence Agency's National Center for Geospatial Intelligence Standards (NCGIS), Mail Stop P-24, 12310 Sunrise Valley Drive, Reston, VA 20191-3449, or request by email to ncgis-mail@nga.mil.)

2.3 <u>Non-Government publications.</u> The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

ISO/IEC 8632-1:1999(E). Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 1:Functional Specification- Second edition, 1999-12-15.

ISO/IEC 8632-3:1999(E). Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 3:Binary encoding - Second edition, 1999-12-15.

ISO/IEC 8632-4:1999(E). Information technology - Computer graphics - Metafile for the storage and transfer of picture description information - Part 4:Clear text encoding- Second edition, 1999-12-01.

ISO 9660. 1988 (E). International Organization for Standardization Information Processing-Volume and File Structure of CD-ROM for Information Interchange. First edition, 1988.

(Copies of these documents are available from the American National Standards Institute (ANSI) at http://webstore.ansi.org)

IHO S52. 1996. International Hydrographic Organization Specifications for Chart Content and Display Aspects of ECDIS. Special Publication No. 52. 5th Edition, December 1996.

IHO S52 Appendix 2. Colour & Symbol Specifications for ECDIS. Special Publication No. 52, APPENDIX 2, 4th Edition, July 1997.

IHO S52 Appendix 2, Annex A. IHO ECDIS Presentation Library Users' Manual. Special Publication No. 52, ANNEX A of APPENDIX 2, Edition/revision 3.1, January 1999. Note: GeoSym is compliant up to and including C&S Maintenance Document 1.

IHO S57. International Hydrographic Organization Transfer Standard for Digital Hydrographic Data. Edition 3.

(Copies of these documents are available from the International Hydrographic Organization (IHO) at http://www.iho.shom.fr)

(Non-government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other information services.)

2.4 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

- 3. REQUIREMENTS.
- 3.1 Accuracy.
- 3.1.1 <u>Displaced feature symbols.</u> The maximum displacement of symbology due to display-time processing shall not exceed the accuracy tolerances of the digital product being displayed.
- $3.2~\underline{\text{Units of measure.}}$ Units of measurement in this specification are given in the metric system, as is the coordinate space defined within the Computer Graphic Metafiles.
- 3.3 <u>GeoSym Specification Description</u>. This section provides information about the GeoSym directory structure implemented to support the VPF products defined in section 1.2.
- 3.3.1 <u>Sources.</u> This GeoSym specification is based on the complete feature content of the VPF product specifications listed in paragraph 2.2.1.a above and the graphic symbology specified in IHO S-52, IHO S-57, MIL-STD-2402, and other standard symbology efforts.
- 3.3.2 <u>Directory Structure Design</u>. This specification contains the directory structure design and the symbology content to support VPF product display systems.
- 3.3.3 Feature Coding Scheme. This GeoSym Specification utilizes the NIMA Profile of the Digital Geographic Information Exchange Standard (DIGEST), Part 4, Feature and Attribute Coding Catalogue (FACC) developed by the Digital Geographic Information Working Group (DGIWG). Symbols and symbol assignments have been included for some candidate FACC features, attributes, and attribute values that have been implemented in VPF products, but have yet to be approved for inclusion in the DIGEST FACC. These non-FACC encodings are identified in the NIMA Profile of the DIGEST FACC.
- 3.3.4 <u>Digital Marginalia</u>. The symbology for legends, grid lines and other cartographic constructs that are normally considered to be part of the marginalia, is not defined in this specification.
 - 3.4 CD-ROM Labeling and Packaging.
- 3.4.1 <u>CD-ROM Labeling.</u> Each CD-ROM label shall indicate the NGA stock number and the date.
- 3.4.2 <u>CD-ROM Cases.</u> The CD-ROM disc or discs shall be distributed in 100% recyclable cardboard sleeves.
- 3.4.3 <u>Distribution Medium.</u> This specification is distributed on CD-ROM discs, each of which contains the entire GeoSym directory structure as defined in section 3.5. The format of the CD-ROM discs conforms to ISO Standard 9660, Level 1.
- 3.4.4 <u>Minimum Hardware Specification.</u> GeoSym may be accessed by any hardware system that includes a CD-ROM reader and supports the ISO 9660 interface.
- 3.4.5 Operating System. The GeoSym directories utilize the standard DOS system disc directory structure and file-naming conventions. However, GeoSym is intended to be utilized by the Windows NT 4.0 or the Windows 2000

operating systems. GeoSym will not function as designed in the Windows 9x operating systems due to the area patterns being 32x32 in size.

3.5 Geospatial Symbols for Digital Displays (GeoSym).

3.5.1 GeoSym Directory Structure Scheme. The GeoSym consists of three top-level directories that contain the CGM symbols, the symbol assignment files, and documentation respectively. The GeoSym directory structure is depicted in Figure 1 below. Subsequent paragraphs describe the contents of each of the top-level directories.

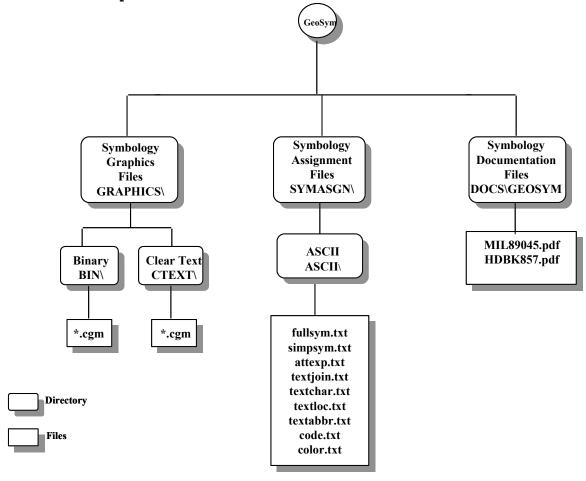


FIGURE 1. Implementation of GeoSym directory structure

3.5.2 GeoSym Graphics Files Directory. All of the GeoSym symbol graphics files are contained under the directory called "GRAPHICS". A unique symbol graphic in CGM format has been created for any FACC feature/attribute combination where individual feature characteristics warrant separate symbology. In most cases the level of detail found on a 1:50,000-scale map or chart has been used to develop this symbology set. Symbology has been developed only for FACC features and attributes which have been implemented in one of the Vector Product Format (VPF) products being produced by the National Geospatial-Intelligence Agency (see section 1.2). The CGMs and the feature/attribute value combinations that they portray are presented in Appendix A.

The CGMs conform to the Symbology and Annotation for Maps and Imagery (SAMI) CGM profile of the ISO/IEC 8632-1 CGM Standard. The SAMI Profile is being developed by NGA to support MIL-DTL-89045 and other imagery and map annotation uses. The MIL-DTL-89045 symbology requires more complex CGM structures than any other CGM implementation that uses the SAMI Profile. The profile is not yet registered with ISO and is still being refined to ensure that it is broad enough to accommodate all of the functionality required to produce the MIL-DTL-89045 symbology and at the same time define the simplest CGM implementation possible.

The CGMs contained in GeoSym are encoded in both binary format (in the "BIN" subdirectory) and clear text format (in the "CTEXT" subdirectory). Clear text encoded CGMs are provided for the convenience of users who desire to review or evaluate the CGMs with a text editor, as well as with CGM graphic interpretation software. However, some CGM interpretation applications may not display the clear text and binary encoded CGMs identically. Only binary encoding is allowed in the SAMI Profile. The binary encoded CGMs are considered the official symbology defined by this specification and are the only CGMs to be used operationally.

3.5.2.1 Graphics Symbol Characteristics.

The characteristics of individual symbols vary greatly. Some of the aspects of symbol design which distinguish each of the three feature delineation types of areas, lines, and points are described below.

3.5.2.1.1 <u>Point Symbols.</u> Most point symbols are standalone representations of a point feature or the center of an area feature. However, in some cases, multiple point symbols are required to fully define a feature. For example, the FACC Buoy feature (BC020) may be assigned up to six CGMs to represent various attributes of the feature. The table below shows the CGM assigned for each of the Buoy feature's attribute values that are significant for symbolization.

BTC = 0 and SSC = 10 Buoy Type Category equal to UNKNOWN and Structure Shape Category equals Pillar/Spindle	0306.cgm	4
TMC = 25 or 26 or 29 Top Mark Characteristic equals Can (Open), Can (Filled), or Can Over Ball (Open)	0213.cgm	
COL (Character of Light) text string contains "R" for red	0501.cgm	
SST = 1 or 2 or 3 or 4 or 6 or 9 or 14 or 15 Sound Signal Type equals one of the identified sound signal values (horn, whistle, etc)	0401.cgm	6
NST = 10 or 54 Navigation System Type equal to Racon or Ramark	0512.cgm	0
REF = 1 Radar Reflector Attribute equals Radar Reflector Present	0510.cgm	> 4

These component CGMs are stacked on top of each to create a completely symbolized portrayal of the Buoy feature. The origin of each component graphic is set so that the graphic is positioned correctly relative to other components and relative to the point feature's location.

Open Can Buoy with Red Light, Fog Signal and RADAR Reflector	4
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The non-component point symbol CGMs each completely symbolize a point feature such as these:

AL015, BFC=15	2042.cgm	
Building: School		
BB150	0043.cgm	
Landing Place		
BD180, VRR=4, HDP=0, SOH=1	0065.cgm	4
Wreck: Submerged, Depth Unknown, Dangerous		ATD.

3.5.2.1.2 <u>Line Symbols.</u> Line symbols are used to symbolize linear features and the boundaries of area features. They are categorized into three groups: solid lines, dashed/dotted lines, and complex lines. Solid lines consist of a single line of various weights and colors such as:

AP030	0605.cgm	
Road		
AQ113, LOC=25	0610.cgm	
Pipeline/Pipe: Above ground or water		
FC041, TSP=4	0620.cgm	
Traffic Separation Scheme: Separation zone		

Dashed/dotted lines consist of a single line composed of dots and/or dashes of various lengths, weights, and colors, such as:

BE015, HQC=3 or 14 Depth Contour: Supplementary (1/2 or 1/4)	0669.cgm	
AP030, FCO=7, RST=2, WTC=2 Road: Non-divided, loose/unpaved, fair/dry weather	3118.cgm	
AC031, MAC=40 or 41 Maritime Area: TSS	0665.cgm	

Complex lines consist of a combination of solid lines, dashed/dotted lines and/or point symbols that repeat along the linear feature at a given interval, such as:

CA010, MCC<>103 AND HQC=5 Contour Line (land): Depression Index	1307.cgm	
FC036, MAC=15 Restricted Area: Anchoring Prohibited	0739.cgm	T X TTTT X TTT
FC165, RTT=3, EXS=0 Route (Maritime): Recommended Track for Deep Vessels, Existence unknown	0723.cgm	- DM - DM

Point symbols that are used as part of the construction of the complex line symbols, are separate from the point symbols used to symbolize point features and area features. These special point symbols have symbol numbers of 5008 and higher.

When a line symbol is used to depict the boundary of an area feature, it should be drawn clockwise around the area. This will result in the correct orientation of the complex line symbology relative to the area feature.

3.5.2.1.3 <u>Area Symbols.</u> Area symbols are one of two types of interior fills: a solid color fill or a pattern fill. Examples of some of these area symbol types are shown below:

AP020 Interchange	1602.cgm	Solid Color Fill	
BH020 Canal: Not Perennial	1608.cgm	Pattern Fill	
BH095 Marsh/Swamp	0910.cgm	Pattern Fill	* * * * * * * * * * * * * * * * * * *

- 3.5.2.1.4 Special Symbols for Unknown Features. There are three symbols that are used to symbolize VPF features for which there is no symbol assignment in GeoSym. If this situation exists, it is an indication that either the GeoSym symbol assignment table is incorrect or that the VPF product dataset being displayed does not conform to the appropriate specification listed in section 2.2.1. The following table identifies which symbol should be used to symbolize an "unknown" point, line, or area feature. The default symbols should be placed under the following conditions:
 - 1. There is no row in the *sym.txt file for the feature (fcode)
 - 2. After evaluating <u>all</u> rows in the *sym.txt file for that fcode, there is no row that results in an evaluation of "true".

Table 1. Symbols to Place for Unknown Features

Unknown Feature Type	Point Symbol to Place	Linear Symbol to Place
Point (full chart or simplified)	5000.cgm	
Line		5001.cgm
Area - Full Chart	5000.cgm	5001.cgm
Area - Simplified	5000.cgm	0634.cgm

3.5.3 GeoSym Symbology Assignment Files Directory. To facilitate the consistent use of symbols across VPF products and among users, a set of symbology assignment files accompanies the CGMs. These files reside under the directory called "SYMASGN" and are provided for use by application software to automatically assign a symbol(s) to a feature with a specific combination of attributes relevant to symbolization. These files also facilitate the display of some feature attribute information textually.

The symbology assignment files are represented in ASCII file format in the "ASCII" subdirectory.

3.5.3.1 Symbology Assignment Files.

The GeoSym symbology assignment files consist of two parts: the header and the data records. Each row of the header is terminated with a colon, with the exception of the last row, which consists of a single semi-colon character. This indicates the end of the header section and the beginning of the data records. The first row of the header contains the name of the file and an English description of that file. The subsequent rows of the header contain the order and definitions of each field contained in a row of data, according to the following format:

fieldname=datatype,datasize,fielddesc,coderef,:

Fieldname is an identifier of that particular field. Datatype indicates the type of data contained in that field (N=integer, T=character string). Datasize is the maximum number of bytes of datatype integer or the maximum number of characters in the text string required to store the values in the field. Fielddesc is an English description of that field. Coderef is used to indicate that the values contained in that field are integer codes whose meanings are defined in the associated code.txt file (see section 3.5.3.1.4). Fields that contain coded values will contain "code.txt" in the coderef position in the header. Fields that do not contain coded values will contain a dash, "-", in the coderef position.

Following every header is a series of one or more data records (or rows). Each row contains pipe-delimited fields corresponding to the field definitions defined in the header. The values contained in each row store the information pertaining to each defined field.

There is one exception to the header/record format defined here. The Text Abbreviation File has a unique record format and has no header (see section 3.5.3.1.3.4).

3.5.3.1.1 <u>Symbol Assignment File.</u> There are two main symbol assignment files contained in the GeoSym structure. The first one is named "fullsym.txt" and contains the information necessary to assign full chart or

the most robust symbology for a given feature/attribute. Symbolization instructions for every VPF^{TM} product referenced in section 1.2 are contained in this file. The second file is named "simpsym.txt" and contains the information necessary to assign simplified symbology. At the time of this draft, DNC is the only product for which simplified symbology is defined (in IHO S52). Therefore, the simpsym.txt file contains symbolization instructions for DNC only. Table 2 defines the header for both the fullsym.txt and simpsym.txt files.

Table 2. Header for Symbol Assignment File

```
fullsym.txt or simpsym.txt, Full or Simplified Symbol Assignment File:
id=N,2,Row Identifier,-,:
pid=N,1,VPF Product Identifier,code.txt,:
fcode=T,5,FACC Feature Code,-,:
delin=N,1,Delineation of Feature Code,code.txt,:
cov=T,5,VPF Coverage for Feature Code,-,:
pointsym=T,4,Point Symbol Number,-,:
linesym=T,4,Line Symbol Number,-,:
areasym=T,4,Area Symbol Number,-,:
dispri=N,1,Display Priority,-,:
orient=T,3,Orientation Attribute,-,:
labatt=T,*,Label Attribute,-,:
txrowid=T,*,Foreign Key to Text Label Join File,-,:
vgroup=N,4,IHO Viewing Group,-,:
txtgroup=N,1,IHO Text Group,-,:
radar=N,1,IHO Radar Display Category,code.txt,:
dispcat=N,1,IMO Display Category,code.txt,:
feadesc=T,256,Feature Description,-,:
```

The fields in the *sym.txt file can be divided into the following five categories:

[id] [Assignment Data] [Label Data] [ECDIS Supporting Data] [Descriptive Data]

The [id] category consists of a single column named *id*. This field contains a unique identifier for each row of data contained in the file. This number is used to access the associated attribute expression for that row (see attexp.txt file, section 3.5.3.1.2).

The [assignment data] category consists of the next 9 fields. The first four of these constitute the "if" part of the logical expression and the remaining five fields compose the "then" part. The pid field contains a coded numeric value that identifies the VPF product to which the rule applies. The mapping from pid number to product is defined in the code.txt file (see section 3.5.3.1.4). The fcode field contains the 5-character feature code as defined in the applicable VPF product specification. The delin field contains a coded numeric value that identifies the delineation of that fcode. The mapping from delin number to delineation type is defined in the code.txt file.

The cov field is used only for those fcodes that are contained in multiple coverages within a VPF product. Some products, such as DTOP, have the same feature defined in multiple coverages and with different attribution within each coverage. This is a common practice for terrain-based products (e.g., DTOP, VITD) when representing common open water features, such as

River/Stream features, across coverages. When this situation exists, it is necessary to have a different "if" part of the logical expression based on which coverage is being displayed. If the cov field is populated, it will contain one of two types of information: 1.) the abbreviation of the appropriate VPF coverage (e.g., sdr,pop) in that product as defined in that product's coverage attribute table (cat); or 2.) the "not" of that same coverage (e.g., <>sdr,<>pop).

The remaining five fields in the [assignment data] category contain the "then" information to symbolize the feature properly. The pointsym, linesym, and areasym fields contain the prefixes of the specific symbol file(s), CGM(s), that contains the symbology to be displayed for a specific feature/attribute condition. See section 3.5.2.1 for a definition of point, line and area symbols. It is possible for any, all, or none of the *sym fields to be populated for a given row in the *sym.txt file. Table 3 depicts the possible combinations of symbols that can apply based on a feature's delineation (point, line, area). If none of the *sym fields is populated, for a row in the *sym.txt file, it is an indicator that a label attribute is being placed and other fields will be populated instead.

	Point	Line	Area
	Symbol	Symbol	Symbol
Point Feature	х		
Linear Feature		Х	
Area Feature	х	Х	х

Table 3. Symbol to Feature Type Cross-Reference

A point feature may be symbolized as either a point symbol or as a text label or both. If a point symbol is to be placed, a row will exist where the pointsym field will be populated with the appropriate point symbol number and both the linesym and areasym fields will be blank. If a text label is to be placed, a row will exist where all of the *sym fields will be blank and the labatt field will be populated (see [label data] below).

A linear feature will be symbolized exclusively by a line symbol that may or may not be labeled. The *linesym* field will be populated with the appropriate line symbol number. If the linear feature is to be labeled, a row will exist where only the *labatt* field will be populated (see [label data] below).

An area feature may be symbolized by any combination of point, line, or area symbol as well as with a text label. Therefore, it is possible for any combination of the *sym fields to be populated as well as for none of them to be populated, as is the case when *labatt* is populated with the text label attribute (see [label data] below).

The dispri field contains a digit from 0 to 9 that defines the priority for each feature for display purposes. Nine is the highest priority. Symbols for features with higher priorities are displayed on top of and may obstruct symbols for features having lower priority. See section 6.5 in MIL-HDBK-857 for a complete description of display hierarchy in GeoSym.

Finally, the *orient* field contains a three-letter FACC attribute code identifying the attribute that contains the angle of rotation to apply to the point symbol specified to symbolize the feature.

The [label data] category is comprised of two fields and is used to specify default display characteristics for attribute values that are to be displayed as labels in addition to or in place of a graphic symbol. Some examples are the Hydrographic Depth attribute (HDP) of the Sounding Feature (BE020); the Name attribute (NAM) of the Built-Up Area Feature (AL020); and the Color Code Category (CCC) and Character of Light (COL) attributes of the Buoy Feature (BC020). The labatt field contains a set of one or more threecharacter FACC attribute codes identifying the attributes that define the text labels. The txrowid field contains one or more pointers to records in the associated Text Label Join File (textjoin.txt, see 3.5.3.1.3.1) that identifies links to the Text Label Characteristics File (textchar.txt) and the Text Label Location File (textloc.txt). These files provide the default placement parameters and the display characteristics for the text labels. Multiple entries in the labatt field indicate there is more than one attribute value that needs to be displayed as a concatenated text string. Any labatt multiple attribute code entries are comma-delimited and the txrowid field must have the same number of comma-delimited values in order to point to the appropriate information in the textjoin.txt file.

The [ECDIS Supporting Data] category provides several pieces of information that are specific to the Electronic Chart Display (ECDIS) - compliant display requirements documented in the International Hydrographic Organization (IHO) S-52 and IHO S-57 specifications. These include the viewing group (vgroup) and text group (txtgroup), the display of the feature relative to raw radar (either always display Over radar or always Suppressed by radar), and the International Maritime Organization (IMO) display category (display base, standard, or other). Both the radar indicator and the IMO display category fields contain code values that are defined in the code.txt file (see section 3.5.3.1.4). Only hydrographic products that are to be displayed using an ECDIS viewer will have these fields populated. (Refer to S52, Appendix 2, Annex A for a complete explanation of the information defined in these fields.)

The [descriptive data] category provides a description of the feature being symbolized. The *feadesc* field contains an English textual description of the feature/attribute(s) being symbolized.

3.5.3.1.2 Attribute Expression File. The attribute expression file contains the conditional attribute expression components for each row in the symbol assignment file requiring a conditional attribute. There is a single attexp.txt file for both the fullsym.txt and simpsym.txt files. Each expression may be composed of one to many expression components. The header of the attribute expression file is described below.

Table 4. Header for Attribute Expression File.

```
attexp.txt,Attribute Expression File:
cond_index=N,2,Key to Row ID in Symbol Assignment File,-,:
seq=N,1,Sequence Number of Expression Component,-,:
att=T,4,Attribute Code,-,:
oper=N,1,Relational Operator,code.txt,:
value=T,10,Attribute Value,-,:
connector=N,1,Expression Component Logical Connector,code.txt,:
;
```

The cond_index field contains a numeric value that links the complete attribute expression to the applicable row in the *sym.txt file. Each row of a multiple component expression will contain the same value in the cond_index field. The seq field contains a numeric value that identifies each row of a multiple component expression. In addition, the seq value controls the order in which each of the attribute expression components should be accessed in order to build a complete, accurate attribute expression.

The next three fields comprise the attribute expression component. The att field contains the name of the attribute that will be tested for compliance. In most cases, this will be a three-character FACC attribute code. However, for certain objects, S52 symbolization instructions are based on the values of external settings that are controlled by the ECDIS viewing operator. These types of attributes will always be four characters in length. Refer to MIL-HDBK-857 section 6.4.1.1 for a complete list of these types of attributes. The oper field will contain a single digit that equates to one of the allowable logical operators (see code.txt, section 3.5.3.1.4). The value field contains the value of the attribute that must be satisfied in order for the expression component to be true. The contents of the value field will either be a number, a set of characters delimited by double quotes, or the word NULL (no quotes).

The final field in the attexp.txt file is the *connector* field. This field will contain a number indicating which, if any, of the four defined logical connectors is to be used between the current attribute expression component and the next component in the attribute expression (see code.txt, section 3.5.3.1.4). The value of *connector* will be 0 (zero) after the final component of a multi-component attribute expression or if the attribute expression consists of a single component.

A complete explanation of how to use and interpret the information contained in the attexp.txt file can be found in MIL-HDBK-857, section 6.4.

- 3.5.3.1.3 <u>Text Assignment Files.</u> The text assignment files contain the default display characteristics and the text placement parameters for the attribute values to be displayed as labels. A more complete explanation of how to use and interpret the information contained in the text assignment files can be found in MIL-HDBK-857, sections 6.4.1.5 and 6.8.
- 3.5.3.1.3.1 <u>Text Label Join File.</u> The purpose of the text label join file is to combine a set of text characteristics (from a row in the text label characteristics file) with the parameters governing the placement of the text label (from a row in the text label location file). The header of the text label join file is described below.

Table 5. Header for Text Label Join File.

```
textjoin.txt,Text Label Join File:
id=N,1,Row Identifier,-,:
textcharid=N,1,Foreign Key to Text Label Characteristics File,-,:
textlocid=N,1,Foreign Key to Text Label Location File,-,:
;
```

The textcharid and textlocid fields in the textjoin.txt file contain pointers to rows in the textchar.txt and textloc.txt files where the display characteristics and location parameters for the text labels are further specified. The id field contains the value(s) that is specified in the txrowid field in the *sym.txt file.

3.5.3.1.3.2 <u>Text Label Characteristics File.</u> The header of the text label characteristics file is described below.

Table 6. Header for Text Label Characteristics File.

```
textchar.txt,Text Label Characteristics File:
id=N,1,Row Identifier,-,:
tfont=N,1,Text Font,code.txt,:
tstyle=N,1,Text Style,code.txt,:
tsize=N,1,Text Size (pt),-,:
tcolor=N,1,Foreign Key to Color Assignment File,-,:
tprepend=T,*,Characters to prepend to label attribute,-,:
tappend=T,*,Characters to append to label attribute,-,:
abindexid=N,1,Index Key to Text Abbreviations File,-,:
;
```

The fields in the textchar.txt file contain information that controls the display characteristics of the text labels. This information includes the font, style, size, and color of the text to be displayed. In addition, the textchar.txt contains the instructions for inserting characters before and after (prepend and append, respectively) a label and for processing abbreviated labels.

The *tfont* and *tstyle* fields contain numeric codes whose possible values are defined in the code.txt file (see 3.5.3.1.4). The *tsize* field provides the body size of the text in pica points (1 pt = 0.351 mm). The default text size is 10 pts, which is also the minimum permissible size. The *tcolor* field contains the row id of the record in the ASCII color assignment file (color.txt) that holds the color token to be used to display the text.

The tprepend field contains a list of characters that are to be placed before the actual attribute value is placed as the text label. Similarly, the tappend field has a list of characters that are to be placed after the actual attribute value is placed as the text label. In both the tprepend and the tappend fields, the mechanism used to define these extra, embedded characters is based on ISO 10646 (Unicode) 16-bit code definitions. The abindexid field is used to store an index id that points to the textabbr.txt file where a set of abbreviations is defined for replacing the attribute value of the text label with a specified abbreviation.

3.5.3.1.3.3 <u>Text Label Location File.</u> The header of the text label location file is described below.

Table 7 Header for Text Label Location File.

```
textloc.txt,Text Label Location File:
id=N,1,Row Identifier,-,:
tjust=N,1,Text Justification,code.txt,:
tdist=N,1,Distance from base Feature (mm),-,:
tdir=N,2,Direction from base Feature (az degrees),-,:
;
```

The fields in the textloc.txt file contain information that controls the display location of the text labels. This information includes the justification, offset distance, and offset direction of the text to be displayed. In addition to the traditional vertical and horizontal justifications, one justification (sounding text) specifies that the attribute is a depth value. In this case, the default display for the text for the integer part of the depth value is centered on the point feature's position and any fractional part is displayed as a subscript. The tjust field contains numeric codes whose possible values are defined in the code.txt file (see 3.5.3.1.4). The tdist and tdir fields describe the distance in millimeters and the azimuth from North in degrees for the default offset of the text label relative to the feature's position. Zero values in these fields indicate that the text is to be displayed at the center of the feature.

3.5.3.1.3.4 <u>Text Abbreviations File.</u> The format of the text abbreviations file is illustrated below. Its structure differs from the other text assignment files. In place of a header there is simply a brief description of the format for the ensuing data.

Table 8 Format for Text Abbreviations File.

```
textabbr.txt, Text Abbreviations File:
The first row contains the Abbreviation Index Identifier followed
by a colon(:). Each subsequent row, until the next row with an ID
and colon is encountered, defines two pipe-delimited (|) entries
with the attribute value and the abbreviation to be used.
;
1:
1|B
2|Bu
3|Br
.
.
.
46|WGW
2: (next set of abbreviations)
.
.
3: (next set of abbreviations)
```

The information in the textabbr.txt file defines the abbreviated text values to be used to replace the actual value stored in the specified label attribute. Each set of abbreviations is associated with a unique index number that is assigned to a row in the abindexid field of the textchar.txt file.

Refer to MIL-HDBK-857 section 6.8 for an explanation on how to correctly interpret the information provided in the various text assignment files in GeoSym.

3.5.3.1.4 Code Value Description File. The Code Value Description file defines the discrete coded values for specific attributes that are contained in the fullsym.txt, simpsym.txt, attexp.txt, textchar.txt or the textloc.txt files. This allows the application or the user to interpret the meaning of numeric values that are contained in the rows of the other symbology files. The first field in the code.txt file is the row identifier. The next two fields contain the name of the file and the name of the field in

that file that contains coded values. The value field is the actual numeric code value and the description field contains the meaning of that coded value.

For example, a PID value of 5 in a row of the fullsym.txt file translates to the VPF product DNC. Fields that require this type of information have "code.txt" indicated in the file header for the respective field definition.

Table 9. Code Value Description File.

code.	txt,Code Value	Description	n File:					
1	id=N,1,Row Identifier,-,:							
file=	file=T,12,Name of the File,-,:							
	attribute=T,9,Attribute Name,-,:							
	=N,1,Unique Va							
descr	iption=T,21,De	scription of	f Value,-,	:				
;	T	 	1 .					
1	fullsym.txt	pid	1	VMap Level 0				
2	fullsym.txt	pid	2	VMap Level 1				
3	fullsym.txt	pid	3	VMap Level 2				
4	fullsym.txt	pid	4	UVMap				
5	fullsym.txt	pid	5	DNC				
6	fullsym.txt	pid	8	WVSPlus				
7	fullsym.txt	pid	9	VITD				
8	fullsym.txt	pid	17	FFD				
9	fullsym.txt	pid	18	TOD Level 0				
10	fullsym.txt	pid	19	TOD Level 1				
11	fullsym.txt	pid	20	TOD Level 2				
12	fullsym.txt	pid	22	TOD Level 4				
13	fullsym.txt	pid	25	DTOP				
14	fullsym.txt	delin	1	Point				
15	fullsym.txt	delin	2	Line				
16	fullsym.txt	delin	3	Area				
17	fullsym.txt	radar	0	On top of Radar				
18	fullsym.txt	radar	1	Suppressed by Radar				
19	fullsym.txt	dispcat	1	Display Base				
20	fullsym.txt	dispcat	2	Standard Display				
21	fullsym.txt	dispcat	3	Other				
22	simpsym.txt	pid	5	DNC				
23	simpsym.txt	delin	1	Point				
24	simpsym.txt	delin	2	Line				
25	simpsym.txt	delin	3	Area				
26	simpsym.txt	radar	0	On top of Radar				
27	simpsym.txt	radar	1	Suppressed by Radar				
28	simpsym.txt	dispcat	1	Display Base				
29	simpsym.txt	dispcat	2	Standard Display				
30	simpsym.txt	dispcat	3	Other				
31	attexp.txt	oper	1	=				
32	attexp.txt	oper	2	<>				
33	attexp.txt	oper	3	<				
34	attexp.txt	oper	4	>				
35	attexp.txt	oper	5	<=				
36	attexp.txt	oper	6	>=				
50	acceap.cac	ober	_ -	/-				

Table 9. Code Value Description File (continued).

37	attexp.txt	connector	0	None
38	attexp.txt	connector	1	or
39	attexp.txt	connector	2	AND
40	attexp.txt	connector	3	and
41	attexp.txt	connector	4	OR
42	textchar.txt	tfont	0	Sans Serif
43	textchar.txt	tfont	1	Serif
44	textchar.txt	tstyle	0	Normal
45	textchar.txt	tstyle	1	Bold
46	textchar.txt	tstyle	2	Italic
47	textchar.txt	tstyle	3	Bold Italic
48	textchar.txt	tstyle	4	Underline
49	textchar.txt	tstyle	5	Bold Underline
50	textchar.txt	tstyle	6	Italic Underline
51	textchar.txt	tstyle	7	Bold Italic Underline
52	textloc.txt	tjust	1	Bottom Left
53	textloc.txt	tjust	2	Bottom Center
54	textloc.txt	tjust	3	Bottom Right
55	textloc.txt	tjust	4	Center Left
56	textloc.txt	tjust	5	Center Center
57	textloc.txt	tjust	6	Center Right
58	textloc.txt	tjust	7	Top Left
59	textloc.txt	tjust	8	Top Center
60	textloc.txt	tjust	9	Top Right
61	textloc.txt	tjust	10	Sounding Text

3.5.3.1.5 Color Assignment File.

GeoSym symbology files (CGMs) specify color for their primitives via an index number versus a direct color definition such as Red-Green-Blue (RGB) triplet values. The textchar.txt file also specifies a color index for the label attributes. The color assignment file contains the link between the color index number and the color token name assigned to that index. Also included for each index/token is the corresponding RGB value applicable in bright daylight lighting conditions against a black background.

Table 10. Header for Color Assignment File.

```
color.txt,Color Assignment File:
index=N,1,Color Index Number,-,:
token=T,14,Color Token Name,-,:
red=N,1,Red Value,-,:
green=N,1,Green Value,-,:
blue=N,1,Blue Value,-,:
;
```

Refer to MIL-HDBK-857 Section 6.5 for a full explanation of color and its implementation in ECDIS. The contents of the color assignment file are to be used in two ways. First, the CGM interpreter software may use this information when displaying a given CGM, which contains a single color index number that equates to a specific row in the color.txt file. (Alternatively, the CGM interpreter software may use the application attribute structure "IC_ColorNameTable" which is embedded within each CGM. See section 6.5 of MIL-HDBK-857 for an explanation of this CGM attribute). Secondly, the textchar.txt file contains a numeric key (tcolor) that is a pointer into the color assignment file to define the color with which to display the text label.

3.5.4 GeoSym Documentation Files. The directory called "DOCS" contains documentation files that accompany this CD-ROM. The GeoSym specific documentation is in the GeoSym subfolder and consists of the following files:

The Detail Specification, Geospatial Symbols for Digital Displays, MIL-DTL-89045 in Portable Document Format (PDF).

The Department of Defense Handbook, Geospatial Symbols for Digital Displays, MIL-HDBK-857 in PDF.

- 4. Verification
- 4.1 <u>Classification of inspection.</u> The inspection requirements specified herein are classified as a conformance inspection.
- 4.2 Conformance inspection. Conformance inspection shall include the examinations of 4.2.1 and 4.2.2.
- 4.2.1 <u>Visual examination</u>. The CD-ROM contents shall be examined to ensure that all necessary and required files are present on the CD-ROM.
- 4.2.2 Examination. The files in the GeoSym directory structure shall be examined for compliance with the requirements specified in Section 3. Unless a waiver has been granted, non-compliance with any of the specified requirements shall constitute cause for rejection.
- $4.2.3~{\underline{\mathtt{Tests.}}}$ A CD-ROM sample determined by the contracting officer shall be tested for compliance in the following areas:
 - a. ISO 9660 compliance

5. PACKAGING

5.1 <u>Packaging</u>. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When packaging of material is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system command. Packaging data retrieval is available from the managing Military Department or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

- 6.1 Intended use. GeoSym is intended to support the electronic display of VPF data. This specification is designed for use with color-display devices. Use with non-color or grayscale display devices may not yield the intended results and is therefore inappropriate. Even though this specification is intended for softcopy map displays, certain limited uses for hardcopy map production may be suitable. This product is intended for use by military and civilian branches of the government. GeoSym® is a registered trademark of the U.S. Government, National Geospatial-Intelligence Agency.
- 6.2 <u>Acquisition requirements.</u> This section is not applicable to this specification.
- 6.3 <u>Supersession</u>. This specification supersedes all previous versions of this specification, including the Draft Performance Specification Geospatial Symbols for Digital Displays (GeoSym), dated 20 February 1998, and including the Performance Specification Geospatial Symbols for Digital Displays (GeoSym), Prototype 4 draft, dated 5 June 2000, which documented the design of earlier prototype versions of GeoSym. Also superseded is the Performance Specification Geospatial Symbols for Digital Displays (GeoSym), Edition 1 draft, dated 3 December 2003. This specification is the official initial release of this document and reflects the final design of GeoSym.

6.4 <u>Definitions</u>.

Area feature. A geographic entity that encloses a region; for example, a lake, administrative area, or state.

Area symbol. A CGM that contains the graphic depiction for the interior of an area feature. An area symbol will either be a solid fill color or a repeating graphic pattern fill.

Attribute. A property of an entity; for example, the type of a building, or the width of a road.

Attribute value. The specific value of an attribute; for example, a building type of school, 48 feet for road width.

<u>Conditional expression</u>. A logical expression using a specific syntax to represent a feature attribute value. A conditional expression is

interpreted by software to identify the symbol condition, which best matches observed feature attribute value combinations. Valid operators include: =, <, >, AND, OR. Special operators include: NULL. Negation is supported by the combination <> and is used to mean "not equal to".

<u>Directory.</u> A file that contains a list of the unique names, file types (directory or file), beginning addresses, and lengths of other files.

 $\underline{\text{Delineation.}}$ The dimensional classification of a feature (point, line, area).

<u>Feature.</u> A model of a real world geographic entity. A zero-, one-, or two-dimensional entity of uniform attribute scheme from an exhaustive attribute distribution across a plane, or a set of such entities sharing common attribute values. Simple, compound and complex are types of features.

Feature attribute. A property of a feature. (see Attribute)

<u>Field.</u> A tab-delimited location in a row of each ASCII file that contains a single value for a given entity.

<u>Field type.</u> The data type of the value that is stored in a given field. This will either be an "N" for integer or a "T" for character.

File. A named set of records composed of ASCII characters.

 $\underline{\mbox{Foreign key}.}$ One or more fields in one file that are used as a primary key in another file.

<u>Graphics files.</u> Contains the graphic representation of a symbol. Conforms to computer graphic metafile (CGM) format.

<u>Index.</u> A mechanism used to quickly identify a particular record or group of records based on a file's primary key.

 $\underline{\text{Key.}}$ One or more fields whose values uniquely identify or can be used to select a row.

<u>Line feature.</u> A geographic entity that defines a linear (one-dimensional) structure; for example, a river, road, or a state boundary.

<u>Line symbol</u>. A CGM that contains the graphic depiction for a line feature or the bounding linework of an area feature. A line symbol will either be a solid line, a dashed/dotted line or a complex line.

Medium. A data storage device (e.g., a CD-ROM, hard disk drive, magnetic tape, or floppy disk).

 $\underline{\hbox{Point feature.}}$ A geographic entity that defines a zero-dimensional location; for example, a well or a building.

 $\underline{\mbox{Point symbol.}}$ A CGM that contains one or more graphic depictions for a point feature.

<u>Product specification.</u> A document that defines the precise content and format of a specific product. It contains technical requirements and database design decisions such as coding, tiling, special relationships between entities, and so forth.

Row. An ordered collection of fields pertaining to the entity.

Row id. An integer that uniquely identifies each row in a file.

Symbol assignment file. A file that stores the symbol rules of each feature. Each row id from the symbol assignment file is used as a key into the associated attribute expression file to access the conditional expression applicable for a given row.

Symbol conditions. The logical conditions used within the symbol rules to portray specific feature or environmental attribute values that influence how a feature is depicted by a symbol.

<u>Vector product format.</u> A standard format, structure, and organization for large geographic databases based on a georelational data model and intended for direct access.

6.4.1 Acronyms.

WVSPlus

ANSI	American National Standards Institute
ASCII	American Standard Code for Information Interchange
CD-ROM	Compact Disc-Read Only Memory
DIGEST DNC DOD DODISS DOS DPS	Digital Geographic Exchange Standards Digital Nautical Chart Department of Defense Department of Defense Index of Specifications and Standards Disc Operating System
DTOP	Digital Production System Digital Topographic Data
ECDIS	Electronic Chart Display System
FACC FFD	Feature and Attribute Coding Catalogue Foundation Feature Data
IHO IMO ISO	International Hydrographic Organization International Maritime Organization International Organization for Standardization
MC&G	Mapping, Charting, and Geodesy
NGA	National Geospatial-Intelligence Agency
PC	Personal Computer
TOD	Tactical Ocean Data
UVMap	Urban Vector Map
VITD VMap VPD VPF	Vector Product Interim Terrain Data Vector Map Vector Product Format Prototype Development Vector Product Format

World Vector Shoreline Plus

6.5 Subject term (key word) listing.

Attribute
Chart
Charting
Computer Graphics Metafile
Feature
Geospatial
Graphic
Map
Mapping
Portrayal
Symbol
Vector Product Format
VPF

- 6.6 International standardization agreements. This section is not applicable to this specification.
- 6.7 <u>NGA customer help desk.</u> For questions concerning this or other NGA products, services, or specifications, please telephone the NGA Customer Help Desk at 1-800-455-0899, Commercial 314-260-1236, or DSN 490-5032.

SYMBOL ASSIGNMENTS

A.1 SCOPE

A.1.1 $\underline{\text{Scope}}$. This appendix is a consolidated representation of the GeoSym feature/attributes and corresponding graphic symbology. It is a mandatory part of the specification. The information contained herein is intended for compliance.

A.2 APPLICABLE DOCUMENTS

The following documents were used extensively in the selection of appropriate symbology for a given feature/attribute: IHO S52, IHO S57, MIL-STD-2402, OPAREA, HITS, BC.

A.3 SYMBOL ASSIGNMENTS

This appendix provides a textual description and graphic depiction of each symbol and the symbol assignment expression that assigns each symbol to a specific feature/attribute entity. This appendix is sorted by fcode, feature delineation, and VPF product. Refer to Figure A-1 for information about each field contained in the Appendix and how to interpret the field's contents.

It is important to note that the symbols in this Appendix are drawn to appear correctly in the context of digital map display containing many other symbols. Therefore, some symbols may appear to be distorted or have exaggerated elements in their representation in this appendix. For example, the dots in symbol 0052 used by fcode BD000 appear to be too large in this appendix. However, when one views symbol 0052 in the GeoSym viewer (GEOSYMVW.EXE), the symbol displays correctly.

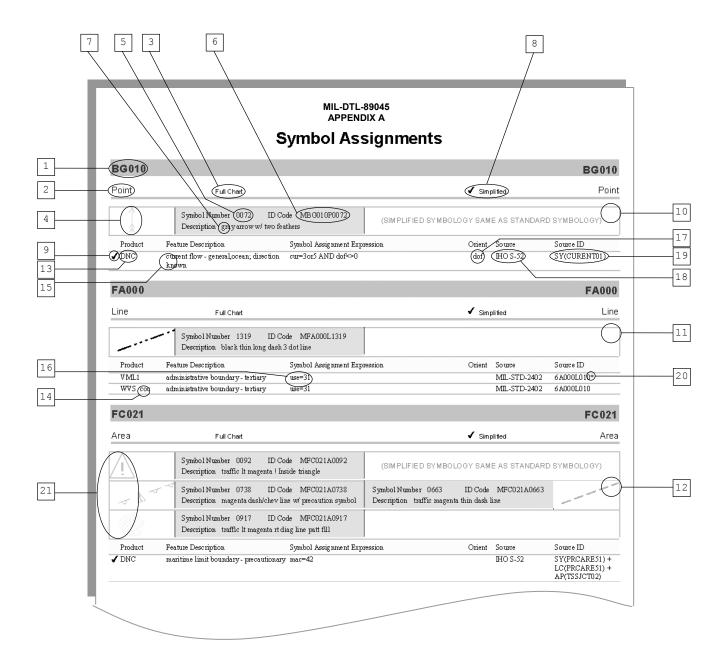


Figure A-1. Appendix A "How-To" Diagram

Figure A-1 "How-To" Diagram Key

- 1 FCODE The FACC feature code that identifies the feature being symbolized. The primary sort for Appendix A is alphabetically by FCODE.
- 2 Delineation The delineation of the feature being symbolized (e.g. point, line, or area). The secondary sort for Appendix A is by delineation in the order point, line, then area.
- 3 Full Chart Symbol Heading Full chart symbology for each feature attribution combination is shown in the left-hand column.
- 4 Full Chart Symbol The leftmost box contains the full chart symbology for the feature being symbolized. This box may contain a point symbol, a line symbol, an area solid fill or an area pattern fill. Note that the type of symbol appearing in the box does not necessarily indicate the delineation of the symbol. Some area features require separate line and point symbology components. (See #21)
- 5 Symbol Number The four-digit code that identifies the symbol assigned to the feature attribute combinations listed. The third sort for Appendix A is by symbol number. (The Symbol Number also appears in the simplified symbol section. See #12)
- Symbol ID Code An alphanumeric identifier that is in a coded format. The first letter of the code is always M for MC&G symbology. The next 5 characters are the FACC feature code for the feature to which the symbol is associated. The sixth character specifies the symbol's delineation, P, L, or A, for point, line, or area respectively. The final four characters are used to store the symbol number. (The Symbol ID Code also appears in the simplified symbol section. See #12)
- 7 Symbol Description An English description of the symbol. (The Symbol Description also appears in the simplified symbol section. See #12)
- 8 Simplified Symbol Heading Simplified symbology for each feature/attribute combination that requires it is shown in the right-hand column.
- 9 Simplified Symbol Designator Simplified symbology is currently applicable only for features in the Digital Nautical Chart (DNC) product. A check mark is placed on the line for the feature attribution combinations for which the simplified symbology applies. Other feature/attribute combinations that also appear under the symbol but do not have a check mark do not apply to the simplified symbology shown in the rightmost box.
- 10 Same Simplified Symbology The text "(SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY)" appears in the right-hand column if the simplified symbol assigned to the feature/attribute combination is the same as that assigned for the full chart symbol.
- 11 No Simplified Symbology The symbol section in the right-hand column appears blank if there is no simplified symbol applicable for the feature/attribute combinations listed.
- 12 Different Simplified Symbology If the simplified symbol assigned to the feature/attribute combination is different from the full chart symbol, then the simplified symbol is depicted and described in the right-hand column. (Note that this section also contains items 4, 5, 6 and 7.)

13 Product - A three-letter abbreviation that specifies the product for which the feature attribute combination applies. The fourth sort for Appendix A is by product abbreviation. The following abbreviations are used for the products listed in section 1.2:

Digital Nautical Chart	DNC
Digital Topographic Data	DTOP
Foundation Feature Data	FFD
Tactical Ocean Data Level 0	TOD0
Tactical Ocean Data Level 1	TOD1
Tactical Ocean Data Level 2	TOD2
Tactical Ocean Data Level 4	TOD4
Urban Vector Map	UVM
Vector Product Interim Terrain Data	VITD
Vector Map Level 0	VML0
Vector Map Level 1	VML1
Vector Smart Map Level 2	VML2
World Vector Shoreline Plus	WVSPlus

- 14 Coverage Some products contain the same feature in multiple coverages and require the symbolization of that feature to be different. When necessary, the coverage field will be populated with the name of the coverage (e.g. "coc") or with an indication that the feature is not in that coverage (e.g., "<>coc").
- 15 Feature Description An English description of the feature that includes a brief description of what the attribution implies.
- 16 Symbol Assignment Expression The attribute(s) and value(s) that qualify the feature for a specific symbol. Only those attributes and their values that drive the symbology for a feature are listed.
- 17 Orientation The three-letter FACC attribute code identifying the attribute that contains the angle of rotation to apply to the point symbol specified to symbolize the feature. If empty, the point symbol should be placed per its orientation in the CGM.
- 18 Source The source from which the symbol assignment was derived. The source options are:
 - IHO S-52 International Hydrographic Organization Specifications for Chart Content and Display Aspects of ECDIS including Appendix A and Appendix A, Annex A (Note: the GeoSym Edition 1 release version is compliant up to and including C&S Maintenance Document 1.)
 - MIL-STD-2402 Mapping, Charting and Geodesy Symbols for Graphic Displays
 - OPAREA DMA Product Specifications for Navy Operating Area (OPAREA)

Charts

HITS DMA Product Specifications for Hull Integrity Test Sites (HITS)

BC DMA Product Specifications for Bottom Contour Charts

Original In some cases there was no appropriate source instruction and in those cases an original symbol was derived that was consistent and meaningful for the product.

19 Source ID - The specific reference to the symbol number within the indicated source. Only applies to S-52 or MIL-STD-2402.

- 20 Variation on Symbology An asterisk following a source ID indicates that the symbol chosen for the feature attribute combination is loosely based on the source ID listed but some aspect(s) of the symbol have been changed.
- 21 Symbol Compilation In the case of some area features, more than one symbol component is required for the complete symbolization of the feature. In these cases, all of the symbol components are listed and must be combined to form the complete symbol.

MIL-DTL-89045 APPENDIX A Symbol Assignments

AA010				AA010
Point	Full Chart	√ Sin	nplified	Poin
X	Symbol Number 0001 ID Code MAA010P0001 Description feature brown mine symbol	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product I	Feature Description Symbol Assignment Exp	pression Orient	Source	Source ID
	mine/quarry	•	IHO S-52	SY(PRDINS02)
X	Symbol Number 2001 ID Code MAA010P2001 Description black pick & hammer			
Product I	Feature Description Symbol Assignment Exp	pression Orient	Source	Source ID
	mine		MIL-STD-2402	1A010P001
	mine		MIL-STD-2402	1A010P001
	mine/quarry		MIL-STD-2402	1A010P001
	mine/quarry		MIL-STD-2402	1A010P001
	mine/quarry		MIL-STD-2402	1A010P001
Line	Full Chart	✓ Sin	nplified	Lin
	Symbol Number 3116 ID Code MAA010L3116 Description black very thin dash line			
	Feature Description Symbol Assignment Exp	pression Orient		Source ID
UVM 1	mine		MIL-STD-2402	1A010A003*
Area	Full Chart	√ Sin	nplified	Are
*	Symbol Number 0027 ID Code MAA010A0027 Description feature brown mine symbol inside circle	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0624 ID Code MAA010A0624 Description feature brown very thin dash line	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product I		,		D SYMBOLOGY) Source ID
	Description feature brown very thin dash line Feature Description Symbol Assignment Exp	,	Source	Source ID
_	Description feature brown very thin dash line	,		,
	Description feature brown very thin dash line Feature Description Symbol Assignment Exp	,	Source	Source ID SY(QUARRY01) +
✓ DNC 1	Description feature brown very thin dash line Feature Description Symbol Assignment Expression Symbol Assignment Expression Symbol Number 2001 ID Code MAA010A2001	,	Source	Source ID SY(QUARRY01) +
✓ DNC 1	Description feature brown very thin dash line Feature Description Symbol Assignment Expression Symbol Number 2001 ID Code MAA010A2001 Description black pick & hammer Symbol Number 3116 ID Code MAA010A3116	pression Orient	Source	Source ID SY(QUARRY01) +
▼ DNC 1	Description feature brown very thin dash line Feature Description Symbol Assignment Expansion Symbol Number 2001 ID Code MAA010A2001 Description black pick & hammer Symbol Number 3116 ID Code MAA010A3116 Description black very thin dash line	pression Orient	Source IHO S-52 Source	Source ID SY(QUARRY01) + LS(DASH,1,LANDF)
Product IDTOP	Description feature brown very thin dash line Feature Description Symbol Assignment Exprimine/quarry Symbol Number 2001 ID Code MAA010A2001 Description black pick & hammer Symbol Number 3116 ID Code MAA010A3116 Description black very thin dash line Feature Description Symbol Assignment Expression	pression Orient	Source IHO S-52	Source ID SY(QUARRY01) + LS(DASH,1,LANDF) Source ID 1A010A001
Product I DTOP 1 UVM 1	Description feature brown very thin dash line Feature Description Symbol Assignment Expansion Symbol Number 2001 ID Code MAA010A2001 Description black pick & hammer Symbol Number 3116 ID Code MAA010A3116 Description black very thin dash line Feature Description Symbol Assignment Expansion	pression Orient	Source IHO S-52 Source MIL-STD-2402	Source ID SY(QUARRY01) + LS(DASH,1,LANDF
Product I DTOP I UVM I VML0	Description feature brown very thin dash line Feature Description Symbol Assignment Expansion Symbol Number 2001 ID Code MAA010A2001 Description black pick & hammer Symbol Number 3116 ID Code MAA010A3116 Description black very thin dash line Feature Description Symbol Assignment Expansion Symbol Symbol Assignment Expansion Symbol Sym	pression Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402	Source ID SY(QUARRY01) + LS(DASH,1,LANDF) Source ID 1A010A001 1A010A001

AA012						A	A012
Point	Full Chart			√ Simp	lified		Point
*	Symbol Number 2001 Description black pick &	ID Code MAA012P2001 hammer					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	quarry				MIL-STD-2402	1A030P001	
UVM	quarry				MIL-STD-2402	1A030P001	
Line	Full Chart			√ Simp	lified		Line
	Symbol Number 3116 Description black very th	ID Code MAA012L3116 in dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	quarry				MIL-STD-2402	1A030A003*	
Area	Full Chart			√ Simp	lified		Area
X	Symbol Number 2001 Description black pick &	ID Code MAA012A2001 hammer					
	Symbol Number 3116 Description black very th	ID Code MAA012A3116 in dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	quarry				MIL-STD-2402	1A030A003	
UVM	quarry				MIL-STD-2402	1A030A003	
AA040						A	A040
Point	Full Chart			√ Simp	lified		Point
A	Symbol Number 2002 Description black tower	ID Code MAA040P2002					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	rig/superstructure				ORIGINAL	2002	
UVM	rig/superstructure				ORIGINAL	2002	
VML1	rig/superstructure				ORIGINAL	2002	

AA050						A	A050
Point	Full Chart			√ Sim	plified		Point
0	Symbol Number 0078 Description black sm cir	ID Code MAA050P0078					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	well - not water	pro<>116			MIL-STD-2402	1A050P001	
UVM	well - not water	pro<>116			MIL-STD-2402	1A050P001	
VML0	well				MIL-STD-2402	1A050P001	
VML1	well - not water	pro<>116			MIL-STD-2402	1A050P001	
VML2	well - not water	pro<>116			MIL-STD-2402	1A050P001	
•	Symbol Number 2003 Description basic blue sol	ID Code MAA050P2003 id filled cir					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	well - water	pro=116			MIL-STD-2402	1A050P003	
UVM	well - water	pro=116			MIL-STD-2402	1A050P003	
VML1	well - water	pro=116			MIL-STD-2402	1A050P003	
VML2	well - water	pro=116			MIL-STD-2402	1A050P003	
AA052						A	A052
Point	Full Chart			√ Sim	plified		Point
A	Symbol Number 2002 Description black tower	ID Code MAA052P2002					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML0	oil/gas field	, , ,			ORIGINAL	2002	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 0604 Description feature brown	ID Code MAA052A0604 a very thin solid line					
	Symbol Number 0804 Description brown solid f	ID Code MAA052A0804					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML0	oil/gas field				ORIGINAL	0604 0804	

AB000						AB000
Area	Full Chart			√ Sim	plified	Area
	Symbol Number 0822 Description lt brown solid	ID Code MAB000A0822				
Product	Feature Description	Symbol Assignment Expres	sion	Orient	Source	Source ID
DTOP	disposal site/waste pile				IHO S-52	AC(LANDA)
UVM	disposal site/waste pile				IHO S-52	AC(LANDA)
VML1	disposal site/waste pile				IHO S-52	AC(LANDA)
VML2	disposal site/waste pile				IHO S-52	AC(LANDA)
	Symbol Number 0624 Description feature brown	ID Code MAB000A0624 a very thin dash line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	sion	Orient	Source	Source ID
/ DNC	disposal site/waste pile				IHO S-52	LS(DASH,1,LANDF)
AB010						AB010
AB010 Area	Full Chart Symbol Number 0822	ID Code MAB010A0822		√ Sim	plified	AB010 Area
				√ Sim	plified	
	Symbol Number 0822		sion	✓ Sim		
Area	Symbol Number 0822 Description lt brown solid	i fill	sion			Area
Area	Symbol Number 0822 Description It brown solid Feature Description	i fill	sion		Source	Area Source ID
Product DTOP	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard wrecking yard/scrap yard	Symbol Assignment Expres	sion		Source IHO S-52	Source ID AC(LANDA)
Product DTOP	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard	Symbol Assignment Expres ID Code MAB010A4107	sion		Source IHO S-52	Source ID AC(LANDA)
Product DTOP	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard wrecking yard/scrap yard Symbol Number 4107	Symbol Assignment Expres ID Code MAB010A4107			Source IHO S-52	Source ID AC(LANDA)
Product DTOP UVM	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard wrecking yard/scrap yard Symbol Number 4107 Description It gray dot pa	Symbol Assignment Expres ID Code MAB010A4107 tt fill		Orient	Source IHO S-52 IHO S-52	Source ID AC(LANDA) AC(LANDA)
Product DTOP UVM Product	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard wrecking yard/scrap yard Symbol Number 4107 Description It gray dot pa	Symbol Assignment Expres ID Code MAB010A4107 tt fill Symbol Assignment Expres ID Code MAB010A0624		Orient	Source IHO S-52 IHO S-52 Source ORIGINAL	Source ID AC(LANDA) AC(LANDA) Source ID 4107
Product DTOP UVM Product	Symbol Number 0822 Description It brown solid Feature Description wrecking yard/scrap yard wrecking yard/scrap yard Symbol Number 4107 Description It gray dot pa Feature Description wrecking yard/scrap yard Symbol Number 0624	Symbol Assignment Expres ID Code MAB010A4107 tt fill Symbol Assignment Expres ID Code MAB010A0624	sion (SIMPLIFIED SYMBOLO	Orient	Source IHO S-52 IHO S-52 Source ORIGINAL	Source ID AC(LANDA) AC(LANDA) Source ID 4107

AC000						AC000
Point	Full Chart			√ Sim	plified	Point
YY	Symbol Number 2005 Description black building	ID Code MAC000P2005 w/ 2 smokestacks above				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	processing plant/treatment plant				ORIGINAL	2005
VML0	processing plant/treatment plant				ORIGINAL	2005
VML1	processing plant/treatment plant				ORIGINAL	2005
VML2	processing plant/treatment plant				ORIGINAL	2005
Area	Full Chart			√ Sim	plified	Area
	Symbol Number 0624 Description feature brown	ID Code MAC000A0624 very thin dash line	(SIMPLIFIED SYMBOLO	DGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	processing plant/treatment plant				IHO S-52	LS(DASH,1,LANDF)
DTOP	processing plant/treatment plant				IHO S-52	LS(DASH,1,LANDF)
UVM	processing plant/treatment plant				IHO S-52	LS(DASH,1,LANDF)
VML1	processing plant/treatment plant				IHO S-52	LS(DASH,1,LANDF)
VML2	processing plant/treatment plant				IHO S-52	LS(DASH,1,LANDF)
AC020						AC020
Point	Full Chart			√ Sim	plified	Point
YY	Symbol Number 2005 Description black building	ID Code MAC020P2005 w/ 2 smokestacks above				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	catalytic cracker				ORIGINAL	2005
UVM	catalytic cracker				ORIGINAL	2005
VML2	catalytic cracker				ORIGINAL	2005

AC030						Α	C030
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 0600 Description black very th	ID Code MAC030A0600 in solid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDARI	O SYMBOLOG	SY)
	Symbol Number 4077 Description depth med bl	ID Code MAC030A4077 ue narrow rt diag line patt fill	Symbol Number 0804 Description brown solid fill	ID Code	MAC030A0804		
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	settling basin/sludge pond				MIL-STD-2402	1C030A004	
DTOP	settling basin/sludge pond				MIL-STD-2402	1C030A004	
FFD	settling basin/sludge pond				MIL-STD-2402	1C030A004	
UVM	settling basin/sludge pond				MIL-STD-2402	1C030A004	
VML1	settling basin/sludge pond				MIL-STD-2402	1C030A004	
VML2	settling basin/sludge pond				MIL-STD-2402	1C030A004	
AC040						Α	C040
Point	Full Chart			√ Sim	plified		Point
A	Symbol Number 2002 Description black tower	ID Code MAC040P2002					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML0	oil/gas facilities				ORIGINAL	2002	
AD010						А	D010
Point	Full Chart			√ Sim	plified		Point
	Symbol Number 2009 Description black square	ID Code MAD010P2009 w/ zap inside					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
	I	Symbol Hoorginion Emp					
VML0	power plant	Symbol i Bolgimon Emp			ORIGINAL	2009	

Area	Full Chart	√	Simplified	Area
	Symbol Number 0600 ID Code MAD010A0600 Description black very thin solid line	(SIMPLIFIED SYMBOLOGY	SAME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 ID Code MAD010A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY	SAME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Or	ient Source	Source ID
✓ DNC	power plant		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
DTOP	power plant		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
UVM	power plant		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
VML1	power plant		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
VML2	power plant		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
AD020				AD020
Point	Full Chart	✓	Simplified	Point
₹•}}	Symbol Number 2010 ID Code MAD020P2010 Description black sun burst w/ dot inside			
Product	Feature Description Symbol Assignment Expr	ression Or	ient Source	Source ID
DTOP	solar panels		ORIGINAL	2010
VML2	solar panels		ORIGINAL	2010
AD030				AD030
Point	Full Chart	✓	Simplified	Point
	Symbol Number 0002 ID Code MAD030P0002 Description feature brown filled square w/ black outline	(SIMPLIFIED SYMBOLOGY	SAME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Or	ient Source	Source ID
✓ DNC	substation/transformer yard		IHO S-52	SY(BUISGL11)
<u> </u>	Symbol Number 2011 ID Code MAD030P2011 Description black filled square w/ zap on top			
Product	Feature Description Symbol Assignment Expr	ression Or	ient Source	Source ID
DTOP	substation/transformer yard		MIL-STD-2402	1D030P001*
UVM	substation/transformer yard		MIL-STD-2402	1D030P001*
VML0	substation/transformer yard		MIL-STD-2402	1D030P001*
VML2	substation/transformer yard		MIL-STD-2402	1D030P001*

	Full Chart			√ Simp	lified	Area
	Symbol Number 0600 ID Code Description black very thin solid lin	e MAD030A0600	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARI	D SYMBOLOGY)
	Symbol Number 0804 ID Code Description brown solid fill	e MAD030A0804	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	substation/transformer yard				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
DTOP	substation/transformer yard				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
UVM	substation/transformer yard				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
VML2	substation/transformer yard				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
AF010						AF010
Point	Full Chart			√ Simp	lified	Poin
	Symbol Number 0003 ID Code Description black chimney symbol	e MAF010P0003	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	chimney/smokestack				IHO S-52	SY(CHIMNY11)
DTOP	chimney/smokestack				IHO S-52	SY(CHIMNY11)
UVM	chimney/smokestack				IHO S-52	SY(CHIMNY11)
VML1	chimney/smokestack				IHO S-52	SY(CHIMNY11)
	· · ·					
VML2	chimney/smokestack				IHO S-52	SY(CHIMNY11)
VML2 AF020	· · ·				IHO S-52	
	· · ·			√ Simp		SY(CHIMNY11)
AF020	chimney/smokestack Full Chart	e MAF020L3086 h line		√ Simp		SY(CHIMNY11) AF020
AF020 Line	Full Chart Symbol Number 3086 ID Code Description gray very thin short das		ression	✓ Simp	lified	SY(CHIMNY11) AF020
AF020 Line	chimney/smokestack Full Chart Symbol Number 3086 ID Code Description gray very thin short das	h line	ression		lified	SY(CHIMNY11) AF020 Line
AF020 Line Product	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description	h line	ression		lified Source	SY(CHIMNY11) AF020 Line Source ID
AF020 Line Product DTOP	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor	h line	ression		Source MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001
AF020 Line Product DTOP UVM	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor conveyor	h line	ression		Source MIL-STD-2402 MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001 1F020L001
AF020 Line Product DTOP UVM VML1	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor conveyor conveyor	h line	ression		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001 1F020L001 1F020L001
AF020 Line Product DTOP UVM VML1 VML2	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor conveyor conveyor	h line			Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001 1F020L001 1F020L001
AF020 Line Product DTOP UVM VML1 VML2 AF030	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor conveyor conveyor conveyor Full Chart	h line		Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001 1F020L001 1F020L001 AF030 Poin
AF020 Line Product DTOP UVM VML1 VML2 AF030 Point	Full Chart Symbol Number 3086 ID Code Description gray very thin short das Feature Description conveyor conveyor conveyor conveyor Full Chart Symbol Number 0004 ID Code Description black tower symbol	h line Symbol Assignment Exp	(SIMPLIFIED SYMBOLOG	Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	SY(CHIMNY11) AF020 Line Source ID 1F020L001 1F020L001 1F020L001 AF030 Poin

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		APPEN	IDIX A				
	Symbol Number 2016 Description black dot in:	ID Code MAF030P2016 side double cir					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	cooling tower				MIL-STD-2402	1F030P005*	
UVM	cooling tower				MIL-STD-2402	1F030P005*	
VML1	cooling tower				MIL-STD-2402	1F030P005*	
VML2	cooling tower				MIL-STD-2402	1F030P005*	
Area	Full Chart			√ Simp	plified		Area
	Symbol Number 3117 Description black thin de Symbol Number 4100 Description It gray solid	ID Code MAF030A4100					
D. L.				0: 1	a	G ID	
Product	Feature Description	Symbol Assignment Exp	ression	Orient		Source ID	
UVM	cooling tower				MIL-STD-2402	1F030A001*	
AF040						A	F040
Point	Full Chart			√ Simp	plified		Point
Ţ	Symbol Number 0005 Description feature brow	ID Code MAF040P0005 on crane symbol	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOG	iY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	crane				IHO S-52	SY(CRANESO	01)
DTOP	crane				IHO S-52	SY(CRANESO	
UVM	crane				IHO S-52	SY(CRANESO	01)
VML1	crane				IHO S-52	SY(CRANESO)1)
VML2	crane				IHO S-52	SY(CRANESO)1)
AF070						A	F070
Point	Full Chart			√ Simp	plified		Point
\$	Symbol Number 0006 Description black flare s	ID Code MAF070P0006 tack symbol	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOG	iY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	flare pipe				IHO S-52	SY(FLASTK1	1)
DTOP	flare pipe				IHO S-52	SY(FLASTK1	1)
UVM	flare pipe				IHO S-52	SY(FLASTK1	1)
VML1	flare pipe				IHO S-52	SY(FLASTK1	1)
VML2	flare pipe				IHO S-52	SY(FLASTK1	1)

AH010						AH010
Point	Full Chart		✓	Simp	lified	Poir
	Symbol Number 0007 Description black square	ID Code MAH010P0007	(SIMPLIFIED SYMBOLOGY	SAME	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Or	rient	Source	Source ID
✓ DNC	bastion/rampart/fortification				IHO S-52	SY(FORSTC11)
盟	Symbol Number 2043 Description black four black	ID Code MAH010P2043 ck squares w/ connection				
Product	Feature Description	Symbol Assignment Expr	ression On	rient	Source	Source ID
UVM	bastion/rampart/fortification				MIL-STD-2402	1H050P003
Line	Full Chart		✓	Simp	lified	Lin
	Symbol Number 3052 Description magenta thin s	ID Code MAH010L3052 solid line				
Product	Feature Description	Symbol Assignment Expr	ression On	rient	Source	Source ID
UVM	bastion/rampart/fortification				ORIGINAL	3052
Area	Full Chart		✓	Simp	lified	Are
-	Symbol Number 0600 Description black very thir	ID Code MAH010A0600 n solid line	(SIMPLIFIED SYMBOLOGY	SAME	E AS STANDARI	O SYMBOLOGY)
	Symbol Number 0804 Description brown solid file	ID Code MAH010A0804	(SIMPLIFIED SYMBOLOGY	SAME	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression On	rient	Source	Source ID
✓ DNC	bastion/rampart/fortification				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
	Symbol Number 4186 Description magenta thin 6	ID Code MAH010A4186 dash line				
Product	Feature Description	Symbol Assignment Expr	ression On	rient	Source	Source ID
UVM	bastion/rampart/fortification				ORIGINAL	4186
AH050						AH050
			_	Simp	lified	Poir
Point	Full Chart		<u>.</u>	- · · · · · · · · · · ·		
	Full Chart Symbol Number 0007 Description black square	ID Code MAH050P0007	(SIMPLIFIED SYMBOLOGY			
	Symbol Number 0007	ID Code MAH050P0007 Symbol Assignment Expr	(SIMPLIFIED SYMBOLOGY	SAME		

Symbol Number 3052 ID Code MA11050L3052 Description magenta thin solid line	_	1				
Product Feature Description Symbol Assignment Expression Orient Source ID DTOP fortification MIL-STD-2402 IH050P003 UVM fortification MIL-STD-2402 IH050P003 VML1 fortification MIL-STD-2402 IH050P003 VML2 fortification MIL-STD-2402 IH050P003 VML2 fortification MIL-STD-2402 IH050P003 VML2 fortification MIL-STD-2402 IH050P003 VML2 fortification MIL-STD-2402 IH050P003 Line Full Chart ✓ Simplified Line Symbol Number 3052 ID Code MAH050L3052 Description magenta thin solid line Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 0600 ID Code MAH050A0600 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Description black very thin solid line Symbol Number 0804 ID Code MAH050A0804 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Feature Description Symbol Assignment Expression Orient Source Source ID DNC fortification Symbol Assignment Expression Orient Source Source ID Symbol Number 4186 ID Code MAH050A4186 Description magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVML fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square		Symbol Number 2043	ID Code MAH050P2043			
DTOP fertification MIL-STD-2402 H050P003 UVM fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 Line Full Chart		Description black four	black squares w/ connection			
DTOP fertification MIL-STD-2402 H050P003 UVM fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 VMI.2 fortification MIL-STD-2402 H050P003 Line Full Chart	Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
VML1 fortification MIL-STD-2402 111050P003 VML2 fortification MIL-STD-2402 111050P003 Line Full Chart ✓ Simplified Lin Symbol Number 3052 ID Code MA11050L3052 Description magenta thin solid line Orient Source Source ID ORIGINAL 3052 LVM fortification Symbol Number 0600 ID Code MA1050A0600 Description black very thin solid line (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) SYMBOLOGY) Product Feature Description brown solid fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) SYMBOLOGY) Product Feature Description brown solid fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) SYMBOLOGY) Product Feature Description Symbol Assignment Expression Orient Source ID Product Feature Description Symbol Assignment Expression Orient Source ID Product Feature Description Symbol Assignment Expression Orient Source ID Product Feature Description Symbol Number 4186 ID Code MA1050A4186 ORIGINAL 4186 UVM fortific	DTOP				MIL-STD-2402	1H050P003
VML1 fortification MIL-STD-2402 1H050P003 VML2 fortification MIL-STD-2402 1H050P003 Line Full Chart ✓ simplified Lir Product Peature Description Symbol Assignment Expression Orient Source ID UVM fortification Symbol Number 0600 ID Code MAH050A0600 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Peature Description black very thin solid line (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Peature Description brown solid fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Peature Description brown solid fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Peature Description brown solid fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Peature Description Symbol Assignment Expression Orient Source ID Product Peature Description Symbol Assignment Expression Orient Source ID Product Peature Description Symbol Assignment Expression Orient Source ID Product Feature Descri	UVM					
UML 2 fortification Full Chart ✓ Simplified Lilr Symbol Number 3052 ID Code MAH050L3052 Description magenta thin solid line Product Feature Description Symbol Assignment Expression Orient Source Source ID UVM fortification ORIGINAL 3052 Area Full Chart ✓ Simplified Are Symbol Number 0600 ID Code MAH050A0600 Description black very thin solid line Symbol Number 0804 ID Code MAH050A0600 Description block very thin solid line Symbol Number 0804 ID Code MAH050A0600 Description block very thin solid line Product Feature Description Symbol Assignment Expression Orient Source Source ID Product Feature Description Symbol Assignment Expression Orient Source Source ID Drop fortification Symbol Assignment Expression Orient Source Source ID Product Feature Description Symbol Assignment Expression Orient Source Source ID Drop fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square	VML1	fortification				
Symbol Number 3052 ID Code MA11050L3052 Description magenta thin solid line						
Product Feature Description Symbol Assignment Expression Orient Source Source ID UVM fortification Symbol Assignment Expression Orient Source Source ID Area Full Chart ✓ Simplified Are Symbol Number 0600 ID Code MAH050A0600 Description black very thin solid line Symbol Number 0804 ID Code MAH050A0804 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Feature Description Symbol Assignment Expression Orient Source Source ID DNC fortification Symbol Assignment Expression Orient Source Source ID TOP fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Point Full Chart ✓ Simplified Point Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID ORIGINAL 4186 AH060 Point Full Chart ✓ Simplified Point Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square	Line	Full Chart		✓	Simplified	Line
Area Full Chart Symbol Number 0600 ID Code MAH050A0600 Description black very thin solid line Symbol Number 0804 ID Code MAH050A0600 Description brown solid fill Symbol Number 0804 ID Code MAH050A0804 Description brown solid fill Symbol Assignment Expression Orient Source Source ID Code MAH050A0804 Simplified Symbol Number 0804 ID Code MAH050A0804 Simplified Source Source ID Code MAH050A0804 Simplified Source Source ID Code MAH050A0804 Symbol Assignment Expression Orient Source Source ID Code Source ID Code MAH050A4186 Description Magenta thin dash line Symbol Assignment Expression Orient Source Source ID Code Source ID Code MAH050A4186 ORIGINAL 4186 ORIGINAL		-				
Area Full Chart	Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
Symbol Number 0600 ID Code MAH050A0600 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Symbol Number 0804 ID Code MAH050A0804 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Feature Description Symbol Assignment Expression Orient Source Source ID DNC fortification Symbol Assignment Expression Orient Source Source ID Symbol Number 4186 ID Code MAH050A4186 Description magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	UVM	fortification			ORIGINAL	3052
Symbol Number 0600 ID Code MAH050A0600 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Symbol Number 0804 ID Code MAH050A0804 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY) Product Feature Description Symbol Assignment Expression Orient Source Source ID DNC fortification Symbol Assignment Expression Orient Source Source ID Symbol Number 4186 ID Code MAH050A4186 Description magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	Area	Full Chart		✓	Simplified	Area
Description black very thin solid line Symbol Number 0804 ID Code MAH050A0804 (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY)						700
Product Feature Description Symbol Assignment Expression Orient Source Source ID → DNC fortification Symbol Assignment Expression Orient Source Source ID → DNC fortification IHO S-52 LS(SOLD.I.CHBLR + AC(CHBRN)) Symbol Number 4186 ID Code MAH050A4186 Description magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 AH060 Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID		3		(SIMPLIFIED SYMBOLOGY S	SAME AS STANDAR	RD SYMBOLOGY)
✓ DNC fortification IHO S-52 LS(SOLD,1,CHBLK + AC(CHBRN)) Product Feature Description Magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 AH060 Point Full Chart ✓ Simplified Point Point Point Source Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID				(SIMPLIFIED SYMBOLOGY S	SAME AS STANDAR	RD SYMBOLOGY)
Symbol Number 4186 ID Code MAH050A4186 Description magenta thin dash line Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	✓ DNC	fortification			IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
DTOP fortification ORIGINAL 4186 UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 AH060 Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID		-				
UVM fortification ORIGINAL 4186 VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
VML1 fortification ORIGINAL 4186 VML2 fortification ORIGINAL 4186 AH060 Point Full Chart Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	DTOP	fortification			ORIGINAL	4186
VML2 fortification ORIGINAL 4186 AH060 Point Full Chart Symbol Number 2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	UVM	fortification			ORIGINAL	4186
AH060 Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	VML1	fortification			ORIGINAL	4186
Point Full Chart ✓ Simplified Poi Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	VML2	fortification			ORIGINAL	4186
Symbol Number 2072 ID Code MAH060P2072 Description gray shadowed square Product Feature Description Symbol Assignment Expression Orient Source Source ID	AH060					AH060
Product Feature Description Symbol Assignment Expression Orient Source Source ID	Point	Full Chart		✓	Simplified	Point
1						
UVM underground bunker ORIGINAL 2072	Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
0 · · · · · · · · · · · · · · · · · · ·	UVM	underground bunker			ORIGINAL	2072

Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3054 Description lt magenta ve	ID Code MAH060L3054 ry thin short dash line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	underground bunker				ORIGINAL	3054	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 3117 Description black thin das	ID Code MAH060A3117 sh line					
	Symbol Number 4100 Description lt gray solid f	ID Code MAH060A4100					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	underground bunker				ORIGINAL	3117 4100	
AI020							AI020
AIULU							AIUZU
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 3114 Description black very thi	ID Code MAI020A3114 in short dash line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	mobile home/mobile home park				MIL-STD-2402	1I020A001	
UVM	mobile home/mobile home park				MIL-STD-2402	1I020A001	
VML2	mobile home/mobile home park				MIL-STD-2402	1I020A001	
AI030							AI030
Point	Full Chart			√ Sim	plified		Point
	Symbol Number 2026 Description black tent	ID Code MAI030P2026					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
VML0	camp				ORIGINAL	2026	
AJ030							AJ030
AUUUU						•	A3030
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 4217 Description beige very thi	ID Code MAJ030A4217 in solid line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	feedlot/stockyard/holding pen				ORIGINAL	4217	
UVM	feedlot/stockyard/holding pen				ORIGINAL	4217	
VML2	feedlot/stockyard/holding pen				ORIGINAL	4217	

AJ050					AJ050
Point	Full Chart		√ Sin	nplified	Point
X	Symbol Number 0008 ID Code MAJO Description black sm cir w/ X on top	050P0008	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol 2	Assignment Expression	on Orient	Source	Source ID
✓ DNC	windmill			IHO S-52	SY(WNDMIL12)
DTOP	windmill			IHO S-52	SY(WNDMIL12)
UVM	windmill			IHO S-52	SY(WNDMIL12)
VML1	windmill			IHO S-52	SY(WNDMIL12)
VML2	windmill			IHO S-52	SY(WNDMIL12)
AK020					AK020
Point	Full Chart		√ Sin	nplified	Point
•	Symbol Number 0024 ID Code MAK Description black dot inside cir	C020P0024	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol A	Assignment Expression	on Orient	Source	Source ID
✓ DNC	amusement park attraction			IHO S-52	SY(POSGEN03)
	Symbol Number 2029 ID Code MAK Description black ferris wheel	C020P2029			
Product	Feature Description Symbol 2	Assignment Expression	on Orient	Source	Source ID
DTOP	amusement park attraction			ORIGINAL	2029
UVM	amusement park attraction			ORIGINAL	2029
VML1	amusement park attraction			ORIGINAL	2029
VML2	amusement park attraction			ORIGINAL	2029
Line	Full Chart		√ Sin	nplified	Line
	Symbol Number 0600 ID Code MAK Description black very thin solid line	C020L0600	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol 2	Assignment Expression	on Orient	Source	Source ID
✓ DNC	amusement park attraction			IHO S-52	LS(SOLD,1,CHBLK)

AK030					AK030
Area	Full Chart		√ Sim	plified	Area
	Symbol Number 3117 ID C Description black thin dash line	Code MAK030A3117			
	Symbol Number 4045 ID C Description green solid fill	Code MAK030A4045			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	amusement park			MIL-STD-2402	1K030A002
UVM	amusement park			MIL-STD-2402	1K030A002
VML2	amusement park			MIL-STD-2402	1K030A002
AK040					AK040
Area	Full Chart		√ Sim	plified	Area
	Symbol Number 0600 ID C Description black very thin solid	Code MAK040A0600	(SIMPLIFIED SYMBOLOGY SAM	//E AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 ID C Description brown solid fill	Code MAK040A0804	(SIMPLIFIED SYMBOLOGY SAM	/IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	athletic field			IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
	Symbol Number 4279 ID C Description nav orange thin short	Code MAK040A4279 rt dash line			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	athletic field			MIL-STD-2402	1K040A002
UVM	athletic field			MIL-STD-2402	1K040A001
VML0	athletic field			MIL-STD-2402	1K040A002
VML2	athletic field			MIL-STD-2402	1K040A002
AK060					AK060
Area	Full Chart		√ Sim	plified	Area
	Symbol Number 3117 ID C Description black thin dash line	Code MAK060A3117			
	Symbol Number 4045 ID C Description green solid fill	Code MAK060A4045			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	campground/campsite			MIL-STD-2402	1K030A002
UVM	campground/campsite			MIL-STD-2402	1K030A002
VML2	campground/campsite			MIL-STD-2402	1K030A002

AK070					AK070
Area	Full Chart		√ s	implified	Area
	Symbol Number 4279 Description nav orange th	ID Code MAK070A4279 nin short dash line			
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
UVM	drive in theater			MIL-STD-2402	1K070A001
VML2	drive in theater			MIL-STD-2402	1K070A001
AK080					AK080
Point	Full Chart		√ s	implified	Point
•	Symbol Number 0024 Description black dot insi	ID Code MAK080P0024 ide cir	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
✓ DNC	drive in theater screen			IHO S-52	SY(POSGEN03)
AK090					AK090
Area	Full Chart		√ s	implified	Area
	Symbol Number 0822 Description lt brown solid	ID Code MAK090A0822 d fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
✓ DNC	fairgrounds			IHO S-52	AC(LANDA)
	Symbol Number 4279 Description nav orange th	ID Code MAK090A4279 nin short dash line			
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
DTOP	fairgrounds			MIL-STD-2402	1K090A001
UVM	fairgrounds			MIL-STD-2402	1K090A001
VML2	fairgrounds			MIL-STD-2402	1K090A001
AK100					AK100
Area	Full Chart		√ s	implified	Area
	Symbol Number 4279 Description nav orange th	ID Code MAK100A4279 nin short dash line			
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
DTOP	golf course			MIL-STD-2402	1K100A001
	-				
UVM VML2	golf course golf course			MIL-STD-2402 MIL-STD-2402	1K100A001 1K100A001

					AK1	10
Area	Full Chart		√ s	implified	A	rea
	Symbol Number 4156 ID C Description black solid fill	Code MAK110A4156				
Product	Feature Description	Symbol Assignment Exp	pression Orien	nt Source	Source ID	
UVM	grandstand			MIL-STD-2402	1K110A001	
AK120					AK1	20
Area	Full Chart		√ s	implified	A	rea
	Symbol Number 3117 ID C Description black thin dash line	Code MAK120A3117				
	Symbol Number 4045 ID Conscription green solid fill	Code MAK120A4045				
Product	Feature Description	Symbol Assignment Exp	pression Orien	nt Source	Source ID	
DTOP	park			MIL-STD-2402	1K120A003	
UVM	park			MIL-STD-2402	1K120A003	
VML1	park			MIL-STD-2402	1K120A003	
VML2	park			MIL-STD-2402	1K120A003	
AK130					AK1	30
AK130 Line	Full Chart		√ s	implified		30 Line
		Code MAK130L0605 olid line	✓ S (SIMPLIFIED SYMBOLOGY SA	·	L	
	Symbol Number 0605 ID C		(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	L	
Line	Symbol Number 0605 ID C Description feature brown thin se	olid line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	L D SYMBOLOGY)	ine
Line	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track	olid line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY) Source ID	₋in∈
Line	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C	Symbol Assignment Exp	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR It Source IHO S-52	D SYMBOLOGY) Source ID	₋in∈
Product ✓ DNC	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR It Source IHO S-52	D SYMBOLOGY) Source ID LS(SOLD,2,LANE	₋in∈
Product ✓ DNC Product	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR It Source IHO S-52	D SYMBOLOGY) Source ID LS(SOLD,2,LAND	₋in∈
Product ✓ DNC Product DTOP	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR It Source IHO S-52 It Source MIL-STD-2402	Source ID Source ID Source ID Source ID 1K130L002	₋in∈
Product ✓ DNC Product DTOP UVM	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track race track	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	at Source IHO S-52 tt Source MIL-STD-2402 MIL-STD-2402	Source ID LS(SOLD,2,LAND Source ID 1K130L002 1K130L002	ine
Product ✓ DNC Product DTOP UVM VML1	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track race track race track race track	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	ant Source IHO S-52 The Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LS(SOLD,2,LAND Source ID 1K130L002 1K130L002 1K130L002 1K130L002	₋in∈
Product ✓ DNC Product DTOP UVM VML1 VML2	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track race track race track race track race track race track	Symbol Assignment Exp Code MAK130L3113	(SIMPLIFIED SYMBOLOGY SA	nt Source IHO S-52 nt Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LS(SOLD,2,LAND Source ID 1K130L002 1K130L002 1K130L002 1K130L002	DF)
Product ✓ DNC Product DTOP UVM VML1 VML2	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track race track race track race track race track Symbol Number 3113 ID C	Symbol Assignment Exp Code MAK130L3113 Symbol Assignment Exp	(SIMPLIFIED SYMBOLOGY SA	at Source IHO S-52 The Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LS(SOLD,2,LAND Source ID 1K130L002 1K130L002 1K130L002 1K130L002	DF)
Product ✓ DNC Product DTOP UVM VML1 VML2 Area	Symbol Number 0605 ID C Description feature brown thin so Feature Description race track Symbol Number 3113 ID C Description black solid line Feature Description race track race track race track race track race track Symbol Number 3113 ID C Description black solid line	Symbol Assignment Exp Code MAK130L3113 Symbol Assignment Exp Code MAK130A3113	(SIMPLIFIED SYMBOLOGY SA	at Source IHO S-52 It Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LS(SOLD,2,LAND Source ID 1K130L002 1K130L002 1K130L002 1K130L002 A	DF)

AK150						A	K150
Point	Full Chart			√ Simp	plified		Point
Ą	Symbol Number 2034 Description black skier	ID Code MAK150P2034					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	ski jump				ORIGINAL	2034	
VML1	ski jump				ORIGINAL	2034	
VML2	ski jump				ORIGINAL	2034	
Line	Full Chart			√ Sim _l	plified		Line
	Symbol Number 0656 Description gray very thin	ID Code MAK150L0656 n dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	ski jump				MIL-STD-2402	1K150L001	
VML2	ski jump				MIL-STD-2402	1K150L001	
AK160						A	K160
Point	Full Chart			√ Simple	plified		Poin
	Symbol Number 0002 Description feature brown	ID Code MAK160P0002 a filled square w/ black outline	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDAR	D SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	stadium/amphitheater				IHO S-52	SY(BUISGL1	1)
\odot	Symbol Number 2035 Description black dot insi	ID Code MAK160P2035 de cir					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML0	stadium/amphitheater				MIL-STD-2402	1K160P001	
VML1	stadium/amphitheater				MIL-STD-2402	1K160P001	
Area	Full Chart			√ Sim _l	plified		Area
	Symbol Number 0600 Description black very this	ID Code MAK160A0600 in solid line	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDAR	D SYMBOLOG	SY)
	Symbol Number 0804 Description brown solid f	ID Code MAK160A0804	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDAR	D SYMBOLOG	iY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	stadium/amphitheater				IHO S-52	LS(SOLD,1,C + AC(CHBRN	

	Symbol Number 3113	ID Code MAK160A3113			
	Description black solid lin				
Product	Feature Description	Symbol Assignment Expr	ression Orie	ent Source	Source ID
DTOP	stadium/amphitheater	~)		MIL-STD-2402	1K160A001
UVM	stadium/amphitheater			MIL-STD-2402	1K160A001
VML2	stadium/amphitheater			MIL-STD-2402	1K160A001
	r				
AK170					AK170
Area	Full Chart		✓:	Simplified	Are
	Symbol Number 0600 Description black very thi	ID Code MAK170A0600 in solid line			
	Symbol Number 4138 Description med blue soli	ID Code MAK170A4138 d fill			
Product	Feature Description	Symbol Assignment Expr	ression Orie	ent Source	Source ID
DTOP	swimming pool			MIL-STD-2402	1K170A001
UVM	swimming pool			MIL-STD-2402	1K170A001
VML2	swimming pool			MIL-STD-2402	1K170A001
AK180					AK180
					7117100
Area	Full Chart		✓:	Simplified	Are
Area	Full Chart Symbol Number 3117 Description black thin das	ID Code MAK180A3117	✓:	Simplified	
Area	Symbol Number 3117	ID Code MAK180A4045	✓:	Simplified	
Area	Symbol Number 3117 Description black thin das Symbol Number 4045	ID Code MAK180A4045			
	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil	ID Code MAK180A4045			Are
Product	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid file Feature Description	ID Code MAK180A4045		ent Source	Are Source ID
Product DTOP	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid file Feature Description zoo/safari park	ID Code MAK180A4045		ent Source MIL-STD-2402	Source ID 1K180A003
Product DTOP UVM	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil Feature Description zoo/safari park zoo/safari park	ID Code MAK180A4045		ent Source MIL-STD-2402 MIL-STD-2402	Source ID 1K180A003 1K180A003
Product DTOP UVM VML2	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil Feature Description zoo/safari park zoo/safari park	ID Code MAK180A4045	ression Orio	ent Source MIL-STD-2402 MIL-STD-2402	Source ID 1K180A003 1K180A003 1K180A003
Product DTOP UVM VML2	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil Feature Description zoo/safari park zoo/safari park zoo/safari park	ID Code MAK180A4045 II Symbol Assignment Expr	ression Orio	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Simplified	Source ID 1K180A003 1K180A003 1K180A003 ALOOS
Product DTOP UVM VML2 AL005 Area	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil Feature Description zoo/safari park zoo/safari park zoo/safari park Zoo/safari park	ID Code MAK180A4045 II Symbol Assignment Expr ID Code MAL005A0081 uare w/ I ID Code MAL005A0734	ression Orio	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Simplified	Source ID 1K180A003 1K180A003 1K180A003 AL008 Are
Product DTOP UVM VML2 AL005 Area	Symbol Number 3117 Description black thin das Symbol Number 4045 Description green solid fil Feature Description zoo/safari park	ID Code MAK180A4045 II Symbol Assignment Expr ID Code MAL005A0081 uare w/ I ID Code MAL005A0734	(SIMPLIFIED SYMBOLOGY S Symbol Number 4186 ID Co Description magenta thin dash line	mt Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Simplified	Source ID 1K180A003 1K180A003 1K180A003 AL008 Are

AL015					AL0
Point	Full Chart		√ s	implified	Po
	Symbol Number 0002 Description feature brown	ID Code MAL015P0002 filled square w/ black outline	(SIMPLIFIED SYMBOLOGY SA	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
✓ DNC	building - maritime station	bfc=81 AND sta=0or2or3o	or6or11	IHO S-52	SY(BUISGL11)
¥	Symbol Number 0010 Description black 'iron cro	ID Code MAL015P0010	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - house of worship	bfc=7 AND hwt=0or2or3o	r4or7or22	IHO S-52	SY(BUIREL13)
×	Symbol Number 0011 Description black X inscri	ID Code MAL015P0011 bed in rectangle	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - house of worship	bfc=7 AND hwt=11or14or	15or16or20or21	IHO S-52	SY(BUIREL14)
UVM	building - house of worship	bfc=7or114 AND hwt=11c		IHO S-52	SY(BUIREL14)
VML1	building - house of worship	bfc=7 AND hwt=11or14or		IHO S-52	SY(BUIREL14)
VML2	building - house of worship	bfc=7 AND hwt=11or14or	130116	IHO S-52	SY(BUIREL14)
Š	Symbol Number 0012 Description black mosque/	ID Code MAL015P0012 minaret w/ dot in circle	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - house of worship	bfc=7 AND hwt=5or6or9		IHO S-52	SY(BUIREL15)
UVM	building - house of worship	bfc=7or114 AND hwt=5or	6or9	IHO S-52	SY(BUIREL15)
VML1	building - house of worship	bfc=7 AND hwt=5or6or9		IHO S-52	SY(BUIREL15)
VML2	building - house of worship	bfc=7 AND hwt=5or6or9		IHO S-52	SY(BUIREL15)
CG	Symbol Number 0013 Description lt magenta CG	ID Code MAL015P0013 in rectangle w/ pale green fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - maritime station	bfc=81 AND sta=1		IHO S-52	SY(CGUSTA02)
+	Symbol Number 0014 Description black filled dia	ID Code MAL015P0014 amond entred on horizontal line	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - maritime station	bfc=81 AND sta=5		IHO S-52	SY(RSCSTA02)
SS	Symbol Number 0015 Description lt magenta SS	ID Code MAL015P0015 in rectangle w/ pale green fill	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ssion Orien	nt Source	Source ID
/ DNC	building - maritime station	bfc=81 AND		IHO S-52	SY(SISTAT02)

<u></u>	Symbol Number 0401 ID Description It magenta arcs ori	Code MAL015P0401 gin offset - maximum (SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	building - maritime station (rescue), sound signal	bfc=81 AND sta=5 AND sst≪16		IHO S-52	SY(FOGSIG01) for water
<u> </u>	Symbol Number 0402 ID Description lt magenta arcs ori	Code MAL015P0402 gin offset - minimum (SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	building - maritime station (not rescu- sound signal	e), bfc=81 AND sta<>5 AND sst<>16		IHO S-52	SY(FOGSIG01) for land
	Symbol Number 1001 ID Description red filled square bl	Code MAL015P1001 ack outline			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	building - generic	bfc=2or3or5or8or12or13or14or28or31or35or37or61or66or77or96	-	MIL-STD-2402	1L015P006
UVM	building - government	bfc=2or3or5or8or12or13or14or28or31or35or37or38or52or 61or62or64or65or66or67or77or78or79or80or96or101or11 9or121or123or723	-	MIL-STD-2402	1L015P006
VML1	building - government	bfc=2or3or5or12or13or14		MIL-STD-2402	1L015P006
VML2	building - government	bfc=2or3or5or8or12or13or14or28or31or35or37or61or66or77or96		MIL-STD-2402	1L015P006
•	Symbol Number 1002 ID Description black filled cir w/	Code MAL015P1002 white cross inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	building - hospital	bfc=6		MIL-STD-2402	1L015P009
UVM	building - hospital	bfc=6or100		MIL-STD-2402	1L015P009
VML2	building - hospital	bfc=6		MIL-STD-2402	1L015P009
	Symbol Number 1202 ID Description feature brown fille	Code MAL015P1202 d square w/ brown outln			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	building - generic (industry)	bfc=81or83or84or85or86or89or90or94or102or104or110or 112or113or116or120or124or125		MIL-STD-2402	1L015P0006
UVM	building - generic (industry)	bfc=1or21or22or23or24or25or26or27or29or30or40or54or; 9or71or72or73or74or75or76	5	MIL-STD-2402	1L015P0006

	Symbol Number 2036 ID 0 Description black sm filled square	Code MAL015P2036 (SIMPLIFIED SYMBOLO	OGY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	building - not house of worship, not maritime station	bfc⇔7and⇔81		MIL-STD-2402	1L015P062
DTOP	building - generic	bfc=0or1or4or9or10or11or16or17or18or19or20or21or22o 23or24or25or26or27or29or30or33or36or53or59or69or70o 83or85or86or87or88or89		MIL-STD-2402	1L015P062
DTOP	building - generic	bfc=90or91or92or93or95or98or999		MIL-STD-2402	1L015P062
UVM	building - generic (population)	bfc=0or4or9or10or11or16or17or18or19or20or33or34or36 r39or51or53or55or56or57or58	О	MIL-STD-2402	1L015P062
UVM	building - generic (population)	bfc=63or69or70or87or88or91or92or93or95or97or98or99o 103or105or106or107or109or111or115or117or118or122or 26or127or128or999		MIL-STD-2402	1L015P062
VML0	building			MIL-STD-2402	1L015P062
VML1	building - generic	bfc=0or1or4or9or10or11or16or17or18or19or20or22or23o	r	MIL-STD-2402	1L015P062
VML2	building - generic	bfc=0or1or4or9or10or11or16or17or18or19or20or21or22o 23or24or25or26or27or29or30or33or36	r	MIL-STD-2402	1L015P062
VML2	building - generic	bfc=53or59or69or70or83or85or86or87or88or89or90or91o 92or93or95or98or999	or	MIL-STD-2402	1L015P062
	Symbol Number 2042 ID 0 Description black filled square v	Code MAL015P2042 w/ flag on top			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	building - school	bfc=15		MIL-STD-2402	1L015P008
UVM	building - school, college, seminary	bfc=15or60or108		MIL-STD-2402	1L015P008
VML1	building - school	bfc=15		MIL-STD-2402	1L015P008
VML2	building - school	bfc=15		MIL-STD-2402	1L015P008
	Symbol Number 2044 ID 0 Description black lighthouse sym	Code MAL015P2044 mbol			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	building - lighthouse	bfc=82		ORIGINAL	2044
UVM	building - lighthouse	bfc=82		ORIGINAL	2044
VML1	building - lighthouse	bfc=82		ORIGINAL	2044
VML2	building - lighthouse	bfc=82		ORIGINAL	2044
<u>+</u>	Symbol Number 2045 ID 0	Code MAL015P2045			
	Description black filled square	w/ cross on top			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	building - house of worship	bfc=7		MIL-STD-2402	1L015P011
	building - house of worship	bfc=7or114 AND hwt=0or2or3or4or7 OR bfc=50		MIL-STD-2402	1L015P011
UVM	<u> </u>				
UVM VML1	building - house of worship	bfc=7 AND hwt=0or2or3or4or7		MIL-STD-2402	1L015P011

Ī	Symbol Number 2047 I Description black filled square	D Code MAL015P2047 re w/ T on top				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	building - house of worship	bfc=7or114 AND hwt=20		MIL-STD-2402	1L015P037	
VML1	building - house of worship	bfc=7 AND hwt=20		MIL-STD-2402	1L015P037	
VML2	building - house of worship	bfc=7 AND hwt=20		MIL-STD-2402	1L015P037	
7	Symbol Number 2048 I Description black pinwheel	D Code MAL015P2048				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	building - house of worship	bfc=7or114 AND hwt=21		MIL-STD-2402	1L015P035	
VML1	building - house of worship	bfc=7 AND hwt=21		MIL-STD-2402	1L015P035	
VML2	building - house of worship	bfc=7 AND hwt=21		MIL-STD-2402	1L015P035	
Line	Full Chart		√ Sim _l	olified		Line
	Symbol Number 1406 I Description brown thin solid	D Code MAL015L1406 line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	building - school	bfc=15		ORIGINAL	1406	
UVM	building - school	bfc=15or60or108		ORIGINAL	1406	
VML2	building - school	bfc=15		ORIGINAL	1406	
	Symbol Number 3001 I Description It beige thin solid	D Code MAL015L3001 d line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	building - house of worship	bfc=7		ORIGINAL	3001	
UVM	building - house of worship	bfc=7or114		ORIGINAL	3001	
VML2	building - house of worship	bfc=7		ORIGINAL	3001	
	Symbol Number 3104 I Description red solid line	D Code MAL015L3104				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	building - government	bfc=2or3or5or8or28or52or121		ORIGINAL	3104	
	Symbol Number 3112 I Description black thin solid I	D Code MAL015L3112 ine				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	building - generic	bfc<>6and<>7and<>15		MIL-STD-2402	1L015L001	
UVM	building - generic	bfc > 2and > 3and > 5and > 8and > 15and > 28and > 0d > 121and > 6and > 7and > 114and > 100and > 60and > 108		MIL-STD-2402	1L015L001	
VML2	building - generic	bfc<>6and<>7and<>15		MIL-STD-2402	1L015L001	

		ALLEN					
	Symbol Number 3153	ID Code MAL015L3153					
	Description beige-rose thi	n solid line					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP	building - hospital	bfc=6			ORIGINAL	3153	
UVM	building - hospital	bfc=6or100			ORIGINAL	3153	
VML2	building - hospital	bfc=6			ORIGINAL	3153	
Area	Full Chart			√ Simp	olified		Are
	Symbol Number 1601 Description red solid fill	ID Code MAL015A1601					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
UVM	building - government	bfc=2or3or5or8or28or52o	r121		MIL-STD-2402	1L015A025	
	Symbol Number 4002 Description It beige solid	ID Code MAL015A4002					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP	building - house of worship	bfc=7			ORIGINAL	4002	
UVM	building - house of worship	bfc=7or114			ORIGINAL	4002	
VML1	building - house of worship	bfc=7			ORIGINAL	4002	
VML2	building - house of worship	bfc=7			ORIGINAL	4002	
	Symbol Number 4015 Description beige-rose sol	ID Code MAL015A4015 iid fill					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP	building - hospital	bfc=6			ORIGINAL	4015	
UVM	building - hospital	bfc=6or100			ORIGINAL	4015	
VML2	building - hospital	bfc=6			ORIGINAL	4015	
	Symbol Number 4025 Description feature brown	ID Code MAL015A4025 solid fill					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP					MIL CTD 2402	1L015A030	
	building - school	bfc=15			MIL-STD-2402	1201571050	
UVM	building - school building - school	bfc=15 bfc=15or60or108			MIL-STD-2402 MIL-STD-2402	1L015A030	
VML1	-						
	building - school	bfc=15or60or108			MIL-STD-2402	1L015A030	
VML1	building - school building - school	bfc=15or60or108 bfc=15 bfc=15			MIL-STD-2402 MIL-STD-2402	1L015A030 1L015A030	
VML1	building - school building - school building - school Symbol Number 4156	bfc=15or60or108 bfc=15 bfc=15	ession	Orient	MIL-STD-2402 MIL-STD-2402	1L015A030 1L015A030	
VML1 VML2	building - school building - school building - school Symbol Number 4156 Description black solid fil	bfc=15or60or108 bfc=15 bfc=15	ession	Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1L015A030 1L015A030 1L015A030	
VML1 VML2 Product	building - school building - school building - school Symbol Number 4156 Description black solid fil Feature Description	bfc=15or60or108 bfc=15 bfc=15 ID Code MAL015A4156 Symbol Assignment Expre bfc<6and<7and<15 bfc<2and<3and<5and<	ession ⊗8and<>28and<>52and<>121a <>114and<>100and<>60and<>	Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source	1L015A030 1L015A030 1L015A030 Source ID	
VML1 VML2 Product DTOP	building - school building - school building - school Symbol Number 4156 Description black solid fil Feature Description building - generic	bfc=15or60or108 bfc=15 bfc=15 ID Code MAL015A4156 Symbol Assignment Expre bfc<>6and<>7and<>15 bfc<2and<>3and<>5and nd<>15and<6and<>7and<>7and<>7and		Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source MIL-STD-2402	1L015A030 1L015A030 1L015A030 Source ID 1L015A022	

		ALLEN	IDIX A			
	Symbol Number 0600 Description black very thin	ID Code MAL015A0600 solid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 Description brown solid fill	ID Code MAL015A0804	(SIMPLIFIED SYMBOLO	GY SAN	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	building				IHO S-52	LS(SOLD,1,CHBLF + AC(CHBRN)
AL018						AL01
Point	Full Chart			√ Sim	plified	Poi
	Symbol Number 0002 Description feature brown f	ID Code MAL018P0002 filled square w/ black outline	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	building superstructure addition				IHO S-52	SY(BUISGL11)
AL020						AL02
Point	Full Chart			√ Sim	plified	Poi
	Symbol Number 0016 Description feature brown f	ID Code MAL020P0016 ĭlled cir	(SIMPLIFIED SYMBOLO	GY SAN	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	built-up area				IHO S-52	SY(BUAARE02)
•	Symbol Number 2053 Description black sm open s	ID Code MAL020P2053 square w/ dot in center				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
VML0	built-up area				MIL-STD-2402	1L020P002
VML1	built-up area				MIL-STD-2402	1L020P002
Area	Full Chart			√ Sim	plified	Are
	Symbol Number 4128 Description yellow solid fill	ID Code MAL020A4128				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP pop	built-up area				MIL-STD-2402	1L020A006
FFD	built-up area				MIL-STD-2402	1L020A006
UVM	built-up area				MIL-STD-2402	1L020A006
VML0	built-up area				MIL-STD-2402	1L020A006
VML1	built-up area				MIL-STD-2402	1L020A006
VML2	built-up area				MIL-STD-2402	1L020A006

	Symbol Number 0604 Description feature brown	ID Code MAL020A0604 a very thin solid line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 Description brown solid f	ID Code MAL020A0804	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	built-up area				IHO S-52	LS(SOLD,1,LAND + AC(CHBRN)
	Symbol Number 3112 Description black thin sol	ID Code MAL020A3112 id line				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
VITD	built-up area				MIL-STD-2402	1L020A010
	Symbol Number 3112 Description black thin sol	ID Code MAL020A3112 id line				
	Symbol Number 4243 Description depth dk gray	ID Code MAL020A4243 v solid fill				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
						2112 4242
	op built-up area				ORIGINAL	3112 4243 ALO 2
DTOP ⇔po	op built-up area Full Chart			✓ Simp		AL02
DTOP ⇔po AL025		ID Code MAL025P0017 acked sm cirs	(SIMPLIFIED SYMBOLOG		plified	AL0 2
DTOP ⇔po AL025 Point	Full Chart Symbol Number 0017		`		Diffied E AS STANDAR	AL0 2
DTOP ⇔po AL025 Point	Full Chart Symbol Number 0017 Description black three st	acked sm cirs	`	GY SAM	Diffied E AS STANDAR	AL02 Pc D SYMBOLOGY)
DTOP ⇔pc AL025 Point Product ✓ DNC DTOP	Full Chart Symbol Number 0017 Description black three st Feature Description	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52	PC SYMBOLOGY) Source ID SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52 IHO S-52	AL02 PC D SYMBOLOGY) Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn cairn	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52	AL02 PC D SYMBOLOGY) Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52 IHO S-52	AL02 PC D SYMBOLOGY) Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn cairn	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52	AL02 PC D SYMBOLOGY) Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1 VML2	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn cairn	acked sm cirs	`	GY SAM	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	ALO2 PC Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1 VML2 AL030	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn cairn cairn cairn	acked sm cirs	`	GY SAM Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	ALO2 PC Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1 VML2 AL030	Full Chart Symbol Number 0017 Description black three st Feature Description cairn	Symbol Assignment Exp	ression	GY SAM Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	ALO2 PC Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11)
Product DTOP VML0 VML1 VML2 AL030 Point	Full Chart Symbol Number 0017 Description black three st Feature Description cairn	Symbol Assignment Exp ID Code MAL030P1003	ression	GY SAM Orient	Source IHO S-52	ALO2 PC Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) PC
Product Product DTOP VML0 VML1 VML2 AL030 Point Product	Full Chart Symbol Number 0017 Description black three st Feature Description cairn cairn cairn cairn cairn Cairn Cairn Cairn Cairn Cairn Cairn Cairn Cairn Cairn Full Chart Symbol Number 1003 Description black cross Feature Description	Symbol Assignment Exp ID Code MAL030P1003	ression	GY SAM Orient	Source IHO S-52	PC Source ID SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) SY(CAIRNS11) PC Source ID

Area	Full Chart	✓ Simplified	Area
	Symbol Number 0600 ID Code MAL030A06 Description black very thin solid line	(SIMPLIFIED SYMBOLOGY SAME AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0804 ID Code MAL030A08 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignm	nent Expression Orient Source	Source ID
✓ DNC	cemetery	IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
DTOP	cemetery	IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
UVM	cemetery	IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
VML2	cemetery	IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
AL045			AL045
Area	Full Chart	✓ Simplified	Area
	Symbol Number 3104 ID Code MAL045A314 Description red solid line	04	
Product	Feature Description Symbol Assignment	nent Expression Orient Source	Source ID
FFD	complex outline	MIL-STD-240	2 1L045A001
UVM	complex outline	MIL-STD-240	2 1L045A001
AL050			AL050
Point			
	Full Chart	✓ Simplified	Point
	Full Chart Symbol Number 0018 ID Code MAL050P001 Description black rectange above inverted T		
Product	Symbol Number 0018 ID Code MAL050P001	(SIMPLIFIED SYMBOLOGY SAME AS STANDA	
Product ✓ DNC	Symbol Number 0018 ID Code MAL050P000 Description black rectange above inverted T	(SIMPLIFIED SYMBOLOGY SAME AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0018 ID Code MAL050P001 Description black rectange above inverted T Feature Description Symbol Assignment	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source	ARD SYMBOLOGY) Source ID
✓ DNC	Symbol Number 0018 ID Code MAL050P001 Description black rectange above inverted T Feature Description Symbol Assignment	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source	Source ID SY(NOTBRD11)
✓ DNC AL060	Symbol Number 0018 ID Code MAL050P001 Description black rectange above inverted T Feature Description Symbol Assignment display sign	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source IHO S-52 ✓ Simplified	Source ID SY(NOTBRD11)
✓ DNC AL060	Symbol Number 0018 ID Code MAL050P000 Description black rectange above inverted T Feature Description Symbol Assignment display sign Full Chart Symbol Number 1301 ID Code MAL060L130	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source IHO S-52 ✓ Simplified	Source ID SY(NOTBRD11)
✓ DNC AL060 Line	Symbol Number 0018 ID Code MAL050P000 Description black rectange above inverted T Feature Description Symbol Assignment display sign Full Chart Symbol Number 1301 ID Code MAL060L130 Description black line w/ squares	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source IHO S-52 ✓ Simplified	Source ID SY(NOTBRD11) AL060 Line Source ID
✓ DNC AL060 Line Product	Symbol Number 0018 ID Code MAL050P001 Description black rectange above inverted T Feature Description Symbol Assignment display sign Full Chart Symbol Number 1301 ID Code MAL060L130 Description black line w/ squares Feature Description Symbol Assignment display sign	(SIMPLIFIED SYMBOLOGY SAME AS STANDA ment Expression Orient Source IHO S-52 ✓ Simplified Orient Expression Orient Source	Source ID SY(NOTBRD11) AL060 Line Source ID 2 1L060L002

Area	Full Chart		√ Simp	olified	Area
4	Symbol Number 1301 ID Code MAL060A130 Description black line w/ squares	1			
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
DTOP	dragon teeth	*		MIL-STD-2402	1L060A002
VITD	dragon teeth			MIL-STD-2402	1L060A002
VML2	dragon teeth			MIL-STD-2402	1L060A002
AL070					AL070
Line	Full Chart		√ Simp	olified	Line
	Symbol Number 0600 ID Code MAL070L0600 Description black very thin solid line	(SIMPLIFIED SYMBO	DLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
✓ DNC	fence			IHO S-52	LS(SOLD,1,CHBLK)
Product	Symbol Number 3148 ID Code MAL070L3148 Description black patt line -x -x -x Feature Description Symbol Assignment		Orient	Source	Source ID
DTOP	fence	n Expression	Official	MIL-STD-2402	1L070L004
UVM	fence			MIL-STD-2402	1L070L004
VML1	fence			MIL-STD-2402	1L070L004
VML2	fence			MIL-STD-2402	1L070L004
AL073					AL073
Point	Full Chart		√ Simp	olified	Point
\$	Symbol Number 0019 ID Code MAL073P0019 Description feature brown flag symbol	(SIMPLIFIED SYMBO	DLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
✓ DNC	flagstaff/flagpole			IHO S-52	SY(FLGSTF01)
AL075					AL075
Point	Full Chart		√ Simp	olified	Point
E	Symbol Number 1205 ID Code MAL075P1205 Description brown vert line w/ horizontal ticks on rt si				
Product	Feature Description Symbol Assignment	nt Expression	Orient	Source	Source ID
DTOP	gallery			ORIGINAL	1205

Line	Full Chart		√ Sin	nplified	Li	ine
111	Symbol Number 1401	ID Code MAL075L1401				
	Description black outline					
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID	
DTOP	gallery			MIL-STD-2402	1L075L001	
AL100					AL10	00
Point	Full Chart		√ Sin	nplified	Po	oint
	Symbol Number 2058 Description gray filled so	ID Code MAL100P2058				
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID	
DTOP	hut			MIL-STD-2402	1L100P001*	
UVM	hut			MIL-STD-2402	1L100P001*	
VML1	hut			MIL-STD-2402	1L100P001*	
VML2	hut			MIL-STD-2402	1L100P001*	
AL105					AL10	05
Point	Full Chart		√ Sin	nplified	Po	oint
S	Symbol Number 2060 Description black square	ID Code MAL105P2060 w/ S inside				
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID	
Product VML0	Feature Description settlement	Symbol Assignment Exp	oression Orient	Source MIL-STD-2402	Source ID 1L135P001	
		Symbol Assignment Exp	oression Orient			
VML0	settlement	Symbol Assignment Exp	oression Orient ✓ Sin	MIL-STD-2402 MIL-STD-2402	1L135P001 1L135P001	rea
VML0 VML2	settlement settlement	ID Code MAL105A0802		MIL-STD-2402 MIL-STD-2402	1L135P001 1L135P001	rea
VML0 VML2	settlement settlement Full Chart Symbol Number 0802	ID Code MAL105A0802	√ Sin	MIL-STD-2402 MIL-STD-2402 nplified	1L135P001 1L135P001	rea
VML0 VML2	settlement Full Chart Symbol Number 0802 Description gray solid fill Feature Description settlement	ID Code MAL105A0802	√ Sin	MIL-STD-2402 MIL-STD-2402 nplified	1L135P001 1L135P001	rea
VML0 VML2 Area Product	settlement Full Chart Symbol Number 0802 Description gray solid fill Feature Description	ID Code MAL105A0802	√ Sin	MIL-STD-2402 MIL-STD-2402 nplified Source	1L135P001 1L135P001 Ar	rea
VML0 VML2 Area Product DTOP pop FFD VML1	settlement settlement Full Chart Symbol Number 0802 Description gray solid fil Feature Description settlement settlement settlement	ID Code MAL105A0802	√ Sin	MIL-STD-2402 MIL-STD-2402 mplified Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 1L135A001 1L135A001 1L135A001	rea
VML0 VML2 Area Product DTOP pop FFD	settlement settlement Full Chart Symbol Number 0802 Description gray solid fill Feature Description settlement settlement	ID Code MAL105A0802	√ Sin	MIL-STD-2402 MIL-STD-2402 Inplified Source MIL-STD-2402 MIL-STD-2402	1L135P001 1L135P001 Ar Source ID 1L135A001 1L135A001	rea
VML0 VML2 Area Product DTOP pop FFD VML1	settlement settlement Full Chart Symbol Number 0802 Description gray solid fil Feature Description settlement settlement settlement	ID Code MAL105A0802 Symbol Assignment Exp ID Code MAL105A3112	√ Sin	MIL-STD-2402 MIL-STD-2402 mplified Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 1L135A001 1L135A001 1L135A001	rea
VML0 VML2 Area Product DTOP pop FFD VML1	Symbol Number 0802 Description gray solid fil Feature Description settlement settlement settlement Settlement Settlement	ID Code MAL105A0802 Symbol Assignment Exp ID Code MAL105A3112 lid line ID Code MAL105A4243	√ Sin	MIL-STD-2402 MIL-STD-2402 mplified Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 1L135A001 1L135A001 1L135A001	rea
VML0 VML2 Area Product DTOP pop FFD VML1	Symbol Number 0802 Description gray solid fill Feature Description settlement Symbol Number 3112 Description black thin so	ID Code MAL105A0802 Symbol Assignment Exp ID Code MAL105A3112 lid line ID Code MAL105A4243	✓ Sin	MIL-STD-2402 MIL-STD-2402 mplified Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 1L135A001 1L135A001 1L135A001	rea

AL120						A	L120
Point	Full Chart			√ Sim	plified		Point
	Symbol Number 1004 Description black penci	ID Code MAL120P1004 I shape symbol					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	missile site				MIL-STD-2402	1L120P003	
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3054 Description lt magenta v	ID Code MAL120L3054 very thin short dash line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	missile site				ORIGINAL	3054	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 3061 Description magenta thi	ID Code MAL120A3061 n dotted line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	missile site				ORIGINAL	3061	
	Full Chart			√ Sim	plified	A	
AL130 Point	Full Chart Symbol Number 0020 Description black hatcher	ID Code MAL130P0020 ed trapazoid	(SIMPLIFIED SYMBOLO	✓ Sim			Point
Point	Symbol Number 0020		`	OGY SAM			Point
Point	Symbol Number 0020 Description black hatcher	ed trapazoid	`	OGY SAM	IE AS STANDARI	D SYMBOLOG	Point SY)
Point Product	Symbol Number 0020 Description black hatcher Feature Description monument	Symbol Assignment Expr ID Code MAL130P2063	`	OGY SAM	IE AS STANDARI	D SYMBOLOG Source ID	Point SY)
Product ✓ DNC	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063	Symbol Assignment Expr ID Code MAL130P2063	ression	OGY SAM	Source IHO S-52	D SYMBOLOG Source ID	Point SY)
Product ✓ DNC	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu	Symbol Assignment Expr ID Code MAL130P2063 ment symbol	ression	Orient	Source IHO S-52	D SYMBOLOG Source ID SY(MONUM	Point SY)
Product ✓ DNC Product DTOP UVM	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument	Symbol Assignment Expr ID Code MAL130P2063 ment symbol	ression	Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402	Source ID SY(MONUM Source ID 1L130P001* 1L130P001*	Point GY)
Product ✓ DNC Product DTOP UVM VML0	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument monument	Symbol Assignment Expr ID Code MAL130P2063 ment symbol	ression	Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID SV(MONUM Source ID 1L130P001* 1L130P001*	Point SY)
Product ✓ DNC Product DTOP UVM	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument	Symbol Assignment Expr ID Code MAL130P2063 ment symbol	ression	Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402	Source ID SY(MONUM Source ID 1L130P001* 1L130P001*	Point GY)
Product ✓ DNC Product DTOP UVM VML0 VML1	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument monument monument monument	Symbol Assignment Expr ID Code MAL130P2063 ment symbol	ression	Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID SY(MONUM Source ID 1L130P001* 1L130P001* 1L130P001*	Point GY)
Product Product DTOP UVM VML0 VML1 VML2	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument monument monument monument monument monument	Symbol Assignment Expr ID Code MAL130P2063 ment symbol Symbol Assignment Expr ID Code MAL130A4175	ression	Orient Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID SY(MONUM Source ID 1L130P001* 1L130P001* 1L130P001*	Point GY)
Product Product DTOP UVM VML0 VML1 VML2	Symbol Number 0020 Description black hatcher Feature Description monument Symbol Number 2063 Description black monu Feature Description monument monument monument monument Full Chart Symbol Number 4175	Symbol Assignment Expr ID Code MAL130P2063 ment symbol Symbol Assignment Expr ID Code MAL130A4175	ression	Orient Orient Sim	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID SY(MONUM Source ID 1L130P001* 1L130P001* 1L130P001*	Point

AL135						Al	L135
Point	Full Chart			√ Simp	olified		Point
S	Symbol Number 2060 Description black square w	ID Code MAL135P2060 / S inside					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
UVM	native settlement				MIL-STD-2402	1L135P001	
VML0	native settlement				MIL-STD-2402	1L135P001	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0802 Description gray solid fill	ID Code MAL135A0802					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP pop	native settlement				MIL-STD-2402	1L135A001	
FFD	native settlement				MIL-STD-2402	1L135A001	
UVM	native settlement				MIL-STD-2402	1L135A001	
VML0	native settlement				MIL-STD-2402	1L135A001	
VML1	native settlement				MIL-STD-2402	1L135A001	
VML2	native settlement				MIL-STD-2402	1L135A001	
	Symbol Number 3112 Description black thin solid Symbol Number 4243 Description depth dk gray s	ID Code MAL135A4243					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
DTOP ⇔po	p native settlement				MIL-STD-2402	1L135A001*	
AL140						Al	L140
Point	Full Chart			✓ Simp	olified		Point
+	Symbol Number 0014 Description black filled dia	ID Code MAL140P0014 mond entred on horizontal line					
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID	
VML1	particle accelerator				MIL-STD-2402	1L140P001	
	Full Chart			√ Simp	olified		Area
Area							
Area	Symbol Number 4089 Description magenta solid	ID Code MAL140A4089					
Area	-		ession	Orient	Source	Source ID	
	Description magenta solid	fill	ession	Orient	Source MIL-STD-2402	Source ID 1L140A001*	
Product	Description magenta solid	fill	ession	Orient			

AL155						A	L155
Point	Full Chart			√ Simp	olified		Poin
	Symbol Number 1206 Description black line w/ in	ID Code MAL155P1206 indented rectangle					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	overhead obstruction location				MIL-STD-2402	1L155P001	
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3114 Description black very thin	ID Code MAL155L3114 short dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	overhead obstruction location				ORIGINAL	3114	
AL170						A	L170
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4018 Description lt tan solid fill	ID Code MAL170A4018					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	plaza/city square				MIL-STD-2402	1L170A002	
UVM	plaza/city square				MIL-STD-2402	1L170A002	
VML2	plaza/city square				MIL-STD-2402	1L170A002	
AL195						A	L195
Point	Full Chart			√ Simp	olified		Poin
	Symbol Number 2051 Description black ramp syr	ID Code MAL195P2051 nbol					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	ramp				ORIGINAL	2051	
VITD	ramp				ORIGINAL	2051	

AL200				AL200
Point	Full Chart	√ Sim	plified	Poir
	Symbol Number 0002 ID Code MAL200P0002 Description feature brown filled square w/ black outline	(SIMPLIFIED SYMBOLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, does not cover loc=22 AND vrr=1		IHO S-52	SY(BUISGL11)
✓ DNC	ruins - on ground surface loc=8		IHO S-52	SY(BUISGL11)
DTOP	ruins		IHO S-52	SY(BUISGL11)
UVM	ruins		IHO S-52	SY(BUISGL11)
VML0	ruins		IHO S-52	SY(BUISGL11)
VML1	ruins		IHO S-52	SY(BUISGL11)
VML2	ruins		IHO S-52	SY(BUISGL11)
	Symbol Number 0052 ID Code MAL200P0052 Description depth med blue fill cir w/ black dotted outline	(SIMPLIFIED SYMBOLOGY SAM		,
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, submerged - depth loc=22 AND vrr=4 AND unknown	hdp=0	IHO S-52	SY(OBSTRN01)
	Symbol Number 0053 ID Code MAL200P0053 Description depth med blue fill lg oval w/ black dot outline	(SIMPLIFIED SYMBOLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, submerged - depth 20m loc=22 AND vrr=4 AND or less	hdp>0and<=20	IHO S-52	SY(DANGER01)
••••				
	Symbol Number 0054 ID Code MAL200P0054 Description lg black oval w/ dotted outline	(SIMPLIFIED SYMBOLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product		,	E AS STANDAR	D SYMBOLOGY) Source ID
	Description lg black oval w/ dotted outline	ression Orient		,
Product DNC	Description lg black oval w/ dotted outline Feature Description Symbol Assignment Expruins - offshore, submerged - depth loc=22 AND vrr=4 AND	ression Orient	Source IHO S-52	Source ID SY(DANGER02)
	Description 1g black oval w/ dotted outline Feature Description Symbol Assignment Exprirains - offshore, submerged - depth greater than 20m Symbol Number 0055 ID Code MAL200P0055	ression Orient hdp>20 (SIMPLIFIED SYMBOLOGY SAM	Source IHO S-52 E AS STANDAR	Source ID SY(DANGER02)

Area	Full Chart	√ Sim	plified	Area
-	Symbol Number 0600 ID Code MAL200A0600 Description black very thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
	Symbol Number 0804 ID Code MAL200A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, does not cover loc=22 AND vrr=1		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
✓ DNC	ruins - on ground surface loc=8		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
	Symbol Number 0626 ID Code MAL200A0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
	Symbol Number 0803 ID Code MAL200A0803 Description yellow green solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, covers and uncovers loc=22 AND vrr=8		IHO S-52	LS(DASH,2,CSTLN) + AC(DEPIT)
	Symbol Number 0629 ID Code MAL200A0629 Description gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, submerged - depth loc=22 AND vrr=4 AND greater than 20m	hdp>20	IHO S-52	LS(DASH,2,CHGRD)
	Symbol Number 0680 ID Code MAL200A0680 Description black thin dotted line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, submerged - depth 20m loc=22 AND vrr=4 AND or less	hdp>0and<=20	IHO S-52	LS(DOTT,2,CHBLK)
	Symbol Number 0680 ID Code MAL200A0680 Description black thin dotted line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
	Symbol Number 0810 ID Code MAL200A0810 Description depth med blue solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	ruins - offshore, submerged - depth loc=22 AND vrr=4 AND unknown	hdp=0	IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
	Symbol Number 3114 ID Code MAL200A3114 Description black very thin short dash line			
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	ruins		MIL-STD-2402	1L200A001
UVM	ruins ·		MIL-STD-2402	1L200A001
VML1 VML2	ruins		MIL-STD-2402 MIL-STD-2402	1L200A001 1L200A001
VIVILZ	ruins		WIIL-3 I D-2402	1L200A001

AL210						A	L210
Point	Full Chart			√ Sim _l	olified		Point
	Symbol Number 2070 Description black diag ba	ID Code MAL210P2070 ands in rectangle					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	snow shed/rock shed				MIL-STD-2402	1L210P001	
VML0	snow shed/rock shed				MIL-STD-2402	1L210P001	
VML1	snow shed/rock shed				MIL-STD-2402	1L210P001	
VML2	snow shed/rock shed				MIL-STD-2402	1L210P001	
Line	Full Chart			√ Sim	olified		Line
	Symbol Number 3146 Description black solid tr	ID Code MAL210L3146 iangle line patt					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	snow shed/rock shed				MIL-STD-2402	4B010L002	
VML0	snow shed/rock shed				MIL-STD-2402	4B010L002	
VML1	snow shed/rock shed				MIL-STD-2402	4B010L002	
VML2	snow shed/rock shed				MIL-STD-2402	4B010L002	
AL240						A	L240
Point	Full Chart			√ Simp	olified		Point
Ţ	Symbol Number 0004 Description black tower s	ID Code MAL240P0004 symbol	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDAR	D SYMBOLOG	Y)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	tower (non-communication)				IHO S-52	SY(TOWERS	03)
\odot	Symbol Number 2071 Description black dot insi	ID Code MAL240P2071 ide cir					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	tower (non-communication)				MIL-STD-2402	1L240P009	
UVM	tower (non-communication)				MIL-STD-2402	1L240P009	
					MIL-STD-2402	1L240P009	
VML0	tower (non-communication)				WIIL-51D-2402	112401 007	
VML0 VML1	tower (non-communication) tower (non-communication)				MIL-STD-2402	1L240P009	

AL250					AL	25(
Point	Full Chart		✓ :	Simplified	F	oir
	Symbol Number 2072 Description gray shadow	ID Code MAL250P2072 red square				
Product	Feature Description	Symbol Assignment Exp	ression Orie	ent Source	Source ID	
DTOP	underground dwelling			MIL-STD-2402	1L250P001	
UVM	underground dwelling			MIL-STD-2402	1L250P001	
VML2	underground dwelling			MIL-STD-2402	1L250P001	
Area	Full Chart		√ :	Simplified	A	٩re
	Symbol Number 3117 Description black thin da	ID Code MAL250A3117 ash line				
	Symbol Number 4100 Description lt gray solid	ID Code MAL250A4100 fill				
Product	Feature Description	Symbol Assignment Exp	ression Orie	ent Source	Source ID	
UVM	underground dwelling			ORIGINAL	3117 4100	
AL260					AL2	26
Point	Full Chart		√ 5	Simplified	F	Poi
•	Symbol Number 2323 Description black dot	ID Code MAL260P2323				
Product	Feature Description	Symbol Assignment Exp	ression Orie	ent Source	Source ID	
VML0	wall	, , ,		ORIGINAL	2323	
Line	Full Chart		J 9	Simplified		Lir
				, , , , , , , , , , , , , , , , , , ,		
	Symbol Number 0600	ID Code MAL260L0600	(SIMPLIFIED SYMBOLOGY S.	AME AS STANDAR	D SYMBOLOGY)	
	Description black very th					
Product	Feature Description	Symbol Assignment Exp	ression Orie	ent Source	Source ID	
Product ✓ DNC			ression Orio	ent Source IHO S-52	Source ID LS(SOLD,1,CHB	LK
	Feature Description	Symbol Assignment Exp ID Code MAL260L3113	ression Orie			BLK
	Feature Description wall Symbol Number 3113 Description black solid li	Symbol Assignment Exp ID Code MAL260L3113 ine		IHO S-52	LS(SOLD,1,CHB	BLK
DNC Product	Feature Description wall Symbol Number 3113 Description black solid li Feature Description	Symbol Assignment Exp ID Code MAL260L3113		IHO S-52	LS(SOLD,1,CHB	BLK
Product DTOP	Feature Description wall Symbol Number 3113 Description black solid li Feature Description wall	Symbol Assignment Exp ID Code MAL260L3113 ine		int Source MIL-STD-2402	Source ID 1L260L001	BLF
Product	Feature Description wall Symbol Number 3113 Description black solid li Feature Description	Symbol Assignment Exp ID Code MAL260L3113 ine		IHO S-52	LS(SOLD,1,CHB	BLK
Product DTOP UVM	Symbol Number 3113 Description black solid li Feature Description wall wall	Symbol Assignment Exp ID Code MAL260L3113 ine		ent Source MIL-STD-2402 MIL-STD-2402	Source ID 1L260L001 1L260L001	3Lk
Product DTOP UVM VITD	Feature Description wall Symbol Number 3113 Description black solid li Feature Description wall wall wall	Symbol Assignment Exp ID Code MAL260L3113 ine		IHO S-52 Int Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 1L260L001 1L260L001 1L260L001	BLK

AM010						AM010
Point	Full Chart		✓	Simp	lified	Point
	Symbol Number 2073 Description black square w/	ID Code MAM010P2073 diag line inside				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
UVM	depot (storage)				MIL-STD-2402	1M010P001*
VML0	depot (storage)				MIL-STD-2402	1M010P001*
Area	Full Chart		✓	Simp	lified	Area
	Symbol Number 4028 Description brown horizonta	ID Code MAM010A4028				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
DTOP	depot (storage)				ORIGINAL	4028
UVM	depot (storage)				ORIGINAL	4028
VML2	depot (storage)				ORIGINAL	4028
Product	Symbol Number 0624 Description feature brown vo	ID Code MAM010A0624 ery thin dash line Symbol Assignment Exp	(SIMPLIFIED SYMBOLOGY		E AS STANDARI Source	Source ID
✓ DNC	depot (storage)	by moor rissignment Exp.	10001011	Tione	IHO S-52	LS(DASH,1,LANDF)
• Bite	deper (storage)					25(211011,1,2111101)
AM020						AM020
Point	Full Chart		✓	Simp	lified	Point
•	Symbol Number 0021 Description feature brown fi	ID Code MAM020P0021 lled cir w/ black outline	(SIMPLIFIED SYMBOLOGY	SAME	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
✓ DNC	grain bin/silo				IHO S-52	SY(SILBUI11)
	Symbol Number 2074 Description brown cir	ID Code MAM020P2074				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
DTOP	grain bin/silo				MIL-STD-2402	1M020P002*
UVM	grain bin/silo				MIL-STD-2402	1M020P002*
VML1	grain bin/silo				MIL-STD-2402	1M020P002*
VML2	grain bin/silo				MIL-STD-2402	1M020P002*

Area	Full Chart	√ Sim	plified	Area
	Symbol Number 4028 ID Code MAM020A4028 Description brown horizontal lines patt fill			
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
DTOP	grain bin/silo		ORIGINAL	4028
UVM	grain bin/silo		ORIGINAL	4028
VML2	grain bin/silo		ORIGINAL	4028
AM030				AM030
Point	Full Chart	√ Sim	plified	Point
[]	Symbol Number 0004 ID Code MAM030P0004 Description black tower symbol	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	grain elevator		IHO S-52	SY(TOWERS03)
DTOP	grain elevator		IHO S-52	SY(TOWERS03)
UVM	grain elevator		IHO S-52	SY(TOWERS03)
VML1	grain elevator		IHO S-52	SY(TOWERS03)
VML2	grain elevator		IHO S-52	SY(TOWERS03)
Area	Full Chart	√ Sim	plified	Area
	Symbol Number 4028 ID Code MAM030A4028 Description brown horizontal lines patt fill			
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
DTOP	grain elevator		ORIGINAL	4028
UVM	grain elevator		ORIGINAL	4028
VML2	grain elevator		ORIGINAL	4028
	Symbol Number 0600 ID Code MAM030A0600 Description black very thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0804 ID Code MAM030A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	grain elevator		IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
AM040				AM040
Area	Full Chart	√ Sim	plified	Area
* . *	Symbol Number 4123 ID Code MAM040A4123 Description depth gray stiple patt fill			
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
			Source	Source ID

	Symbol Number 0624 Description feature brown	ID Code MAM040A0624 a very thin dash line	(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	mineral pile				IHO S-52	LS(DASH,1,LAND
AM060						AM06
Point	Full Chart			Simp	lified	Po
	Symbol Number 2076 Description red brown fil	ID Code MAM060P2076 led semicircle				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	storage bunker/storage mound				MIL-STD-2402	1M060P001*
UVM	storage bunker/storage mound				MIL-STD-2402	1M060P001*
VML2	storage bunker/storage mound				MIL-STD-2402	1M060P001*
Area	Full Chart		•	/ Simp	lified	Ar
	Symbol Number 4114 Description depth gray ho	ID Code MAM060A4114 prizontal lines patt fill				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	storage bunker/storage mound				ORIGINAL	4114
UVM	storage bunker/storage mound				ORIGINAL	4114
VML2	-t				ORIGINAL	4114
	storage bunker/storage mound					
AM070	storage bunker/storage mound					AM07
AM070 Point	Full Chart		•	/ Simp	lified	AM07
		ID Code MAM070P0022	(SIMPLIFIED SYMBOLOGY			Po
Point	Full Chart Symbol Number 0022	ID Code MAM070P0022 Symbol Assignment Expr	(SIMPLIFIED SYMBOLOGY	/ SAMI		Po
Point Product	Full Chart Symbol Number 0022 Description black cir		(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARI	Po O SYMBOLOGY)
Point	Full Chart Symbol Number 0022 Description black cir Feature Description	Symbol Assignment Expr ID Code MAM070P2019	(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARI	Po SYMBOLOGY) Source ID
Point Product	Full Chart Symbol Number 0022 Description black cir Feature Description tank Symbol Number 2019	Symbol Assignment Expr ID Code MAM070P2019	(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARI	Po SYMBOLOGY) Source ID
Product DNC	Full Chart Symbol Number 0022 Description black cir Feature Description tank Symbol Number 2019 Description black sm fille	Symbol Assignment Expr ID Code MAM070P2019 d cir	(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARE Source IHO S-52	Source ID Source ID Source ID
Product DNC Product DTOP	Full Chart Symbol Number 0022 Description black cir Feature Description tank Symbol Number 2019 Description black sm fille Feature Description	Symbol Assignment Expr ID Code MAM070P2019 d cir	(SIMPLIFIED SYMBOLOGY	/ SAMI	Source IHO S-52 Source MIL-STD-2402	Source ID SY(TNKCON12)
Product DTOP UVM	Full Chart Symbol Number 0022 Description black cir Feature Description tank Symbol Number 2019 Description black sm fille Feature Description tank tank	Symbol Assignment Expr ID Code MAM070P2019 d cir	(SIMPLIFIED SYMBOLOGY	/ SAMI	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402	Source ID Source ID 1M070P003 1M070P003
Product DNC Product DTOP	Full Chart Symbol Number 0022 Description black cir Feature Description tank Symbol Number 2019 Description black sm fille Feature Description tank	Symbol Assignment Expr ID Code MAM070P2019 d cir	(SIMPLIFIED SYMBOLOGY	/ SAMI	Source IHO S-52 Source MIL-STD-2402	Source ID Source ID Source ID Moropooo3

Area	Full Chart		✓	Simpli	ified	Are
	Symbol Number 4156 Description black solid fill	ID Code MAM070A4156				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
DTOP	tank				MIL-STD-2402	1M070A014
UVM	tank				MIL-STD-2402	1M070A014
VML2	tank				MIL-STD-2402	1M070A014
	Symbol Number 0600 Description black very thin s	ID Code MAM070A0600 solid line	(SIMPLIFIED SYMBOLOGY	SAME	AS STANDARI	O SYMBOLOGY)
	Symbol Number 0804 Description brown solid fill	ID Code MAM070A0804	(SIMPLIFIED SYMBOLOGY	SAME	AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
✓ DNC	tank				IHO S-52	LS(SOLD,1,CHBLK + AC(CHBRN)
AM080						AM08
Point	Full Chart		✓	Simpli	ified	Poi
Į	Symbol Number 0023 Description black water town	ID Code MAM080P0023 er symbol	(SIMPLIFIED SYMBOLOGY	SAME	AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
✓ DNC	water tower				IHO S-52	SY(TOWERS12)
\odot	Symbol Number 2078 Description basic blue dot in	ID Code MAM080P2078 side cir				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
DTOP	water tower				MIL-STD-2402	1M080P001
UVM	water tower				MIL-STD-2402	1M080P001
VML0	water tower				MIL-STD-2402	1M080P001
VML1	water tower				MIL-STD-2402	1M080P001
VML2	water tower				MIL-STD-2402	1M080P001
Area	Full Chart		✓	Simpli	ified	Are
	Symbol Number 4156 Description black solid fill	ID Code MAM080A4156				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
UVM	water tower				ORIGINAL	4156

AN010						AN010
Line	Full Chart			√ Sim	plified	Line
	Symbol Number 0605 ID Conception of the Description	ode MAN010L0605 lid line	(SIMPLIFIED SYMBOL	OGY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	railroad				IHO S-52	LS(SOLD,2,LANDF)
	Symbol Number 3123 ID Co Description black solid line w/ sin	ode MAN010L3123 ngle tics both sides				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	railroad - operational, unknown/1 lane	exs=0or28 AND ltn<2			MIL-STD-2402	1N010L003
FFD	railroad - operational, normal/broad/unknown	exs=0or28 AND rgc<>2			MIL-STD-2402	1N050L003
UVM	railroad -op, unkn/norml/brd	exs=0or28 AND rgc<>2			MIL-STD-2402	1N010L003
VITD	railroad - definite, unkn/single	exs=0or1 AND fco=0or3			MIL-STD-2402	1N010L003
VML0	railroad -op, unkn/single	exs=28 AND fco=0or3			MIL-STD-2402	1N010L003
VML1	railroad -op, unkn/single, unkn/norml/br	d exs=0or28 AND fco=0or	3 AND rgc⇔2		MIL-STD-2402	1N010L003
VML2	railroad -op, unkn/single, unkn/norml/br	rd exs=0or28 AND fco=0or	3 AND rgc⇔2		MIL-STD-2402	1N010L003
	Symbol Number 3125 ID Co Description black solid line w/ sin	ode MAN010L3125 ngle tics alt sides				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
FFD	railroad - operational, narrow	exs=0or28 AND rgc=2			MIL-STD-2402	1N050L005
UVM	railroad -op, narrow	exs=0or28 AND rgc=2			MIL-STD-2402	1N010L067
VML1	railroad -op, unkn/single, narrow	exs=0or28 AND fco=0or	3 AND rgc=2		MIL-STD-2402	1N010L067
VML2	railroad -op, unkn/single, narrow	exs=0or28 AND fco=0or	3 AND rgc=2		MIL-STD-2402	1N010L067
#	Symbol Number 3127 ID Co Description black solid line w/ do	ode MAN010L3127 puble tics both sides				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	railroad - operational, multiple lanes	exs=0or28 AND ltn>1			MIL-STD-2402	1N010L009
VITD	railroad - definite, multi	exs=0or1 AND fco<>0ar	nd⇔3		MIL-STD-2402	1N010L009
VML0	railroad -op,multi	exs=28 AND fco<>0and	<>3		MIL-STD-2402	1N010L009
VML1	railroad -op,multi, unkn/norml/brd	exs=0or28 AND fco<>0	and<>3 AND rgc<>2		MIL-STD-2402	1N010L009
VML2	railroad -op,multi, unkn/norml/brd	exs=0or28 AND fco<>0	and<>3 AND rgc<>2		MIL-STD-2402	1N010L009
4	Symbol Number 3129 ID Co Description black solid line w/ do	ode MAN010L3129 puble tics alt sides				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
VML1	railroad -op, mult, narrow	exs=0or28 AND fco<>0	and<>3 AND rgc=2		MIL-STD-2402	1N010L011
VML2	railroad -op, mult, narrow	exs=0or28 AND fco<>0	and<>3 AND rgc=2		MIL-STD-2402	1N010L011

	Symbol Number 3131 ID Co	ode MAN010L3131			
	Description black dash line w/ sin				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	railroad - other	exs<0and<>28		MIL-STD-2402	1N010L022
FFD	railroad - non-operational, normal/broad/unknown	exs<>0and<>28 AND rgc<>2		MIL-STD-2402	1N010L022
UVM	railroad -non-op, unkn/norml/brd	exs<0and<28 AND rgc<2		MIL-STD-2402	1N010L022
VITD	railroad - dismantled, under construction	exs<0and<1		MIL-STD-2402	1N010L022
VML0	railroad -non-op, unkn/single	exs<>28 AND fco=0or3		MIL-STD-2402	1N010L022
VML1	railroad -non-op, unkn/single, unkn/norml/brd	exs<0and<>28 AND fco=0or3 AND rgc<>2		MIL-STD-2402	1N010L022
VML2	railroad -non-op, unkn/single, unkn/norml/brd	exs<0and<>28 AND fco=0or3 AND rgc<>2		MIL-STD-2402	1N010L022
	Description black dash line w/ dou			G	G ID
Product	Feature Description	Symbol Assignment Expression	Orient		Source ID
VML0	railroad -non-op, multi	exs<>28 AND fco<>0and<>3		MIL-STD-2402	1N010L021
VML1	railroad -non-op, multi, norml/brd/unkn	exs<0and<>28 AND fco<0and<>3 AND rgc<>2		MIL-STD-2402	1N010L021
VML2	railroad -non-op, multi, norml/brd/unkn	exs<0and<>28 AND fco<0and<>3 AND rgc<>2		MIL-STD-2402	1N010L021
	Symbol Number 3135 ID Co Description black dash line w/ sin	ode MAN010L3135 gle tics alt sides			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	railroad - non-operational, narrow	exs<0and<>28 AND rgc=2		MIL-STD-2402	1N050L064
UVM	railroad -non-op, narrow	exs<0and<>28 AND rgc=2		MIL-STD-2402	1N010L023
VML1	railroad -non-op, single/unkn, narrow	exs<>0and<>28 AND fco=0or3 AND rgc=2		MIL-STD-2402	1N010L023
VML2	railroad -non-op, single/unkn, narrow	exs<>0and<>28 AND fco=0or3 AND rgc=2		MIL-STD-2402	1N010L023
	Symbol Number 3137 ID Co Description black dash line w/ door	bde MAN010L3137 uble tics alt sides			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
Product VML1	Feature Description railroad -non-op, multi, narrow	Symbol Assignment Expression exs<0and<>28 AND fco<0and<>3 AND rgc=2	Orient	Source MIL-STD-2402	Source ID 1N010L024

AN050					AN	050
Line	Full Chart		√ Sim	plified		Line
-	Symbol Number 3123 ID Conception black solid line w/sin	ode MAN050L3123 ngle tics both sides				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	railroad siding/railroad spur - normal,broad,unknown	rgc⇔2		MIL-STD-2402	1N050L003	
FFD	railroad siding/railroad spur - normal/broad/unknown	rgc⇔2		MIL-STD-2402	1N050L003	
UVM	railroad siding/railroad spur - normal,broad,unknown	rgc⇔2		MIL-STD-2402	1N050L003	
VITD	railroad siding/railroad spur - normal/broad, definite	exs=0or1 AND rrc=0or1or5		MIL-STD-2402	1N050L003	
VML1	railroad siding/railroad spur - normal,broad,unknown	rgc⇔2		MIL-STD-2402	1N050L003	
VML2	railroad siding/railroad spur - normal,broad,unknown	rgc⇔2		MIL-STD-2402	1N050L003	
	Symbol Number 3125 ID Conception black solid line w/ sin	ode MAN050L3125 ngle tics alt sides				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	railroad siding/railroad spur - narrow	rgc=2		MIL-STD-2402	1N050L005	
FFD	railroad siding/railroad spur - narrow	rgc=2		MIL-STD-2402	1N050L005	
UVM	railroad siding/railroad spur - narrow	rgc=2		MIL-STD-2402	1N050L005	
VITD	railroad siding/railroad spur - narrow, definite	exs=0or1 AND rrc=4		MIL-STD-2402	1N050L005	
VML1	railroad siding/railroad spur - narrow	rgc=2		MIL-STD-2402	1N050L005	
VML2	railroad siding/railroad spur - narrow	rgc=2		MIL-STD-2402	1N050L005	
	Symbol Number 3135 ID Conception black dash line w/sin	ode MAN050L3135 ngle tics alt sides				
Drodust	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
Product	F					
VITD	railroad siding/railroad spur - dismantled, under construction	exs�0and�1		MIL-STD-2402	1N050L064	
	railroad siding/railroad spur -	exs⇔0and⇔1		MIL-STD-2402		060
VITD	railroad siding/railroad spur -	exs⇔0and⇔1	√ Sim		AN	060 Poin
AN060	railroad siding/railroad spur - dismantled, under construction Full Chart	ode MAN060P2036	√ Sim		AN	
AN060 Point	railroad siding/railroad spur - dismantled, under construction Full Chart Symbol Number 2036 ID Co	ode MAN060P2036	√ Sim		AN	

Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3123 Description black solid line	ID Code MAN060L3123 e w/ single tics both sides					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
VITD	railroad yard/marshalling yard				MIL-STD-2402	1N080L002	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0802 Description gray solid fill	ID Code MAN060A0802	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	D SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	railroad yard/marshalling yard				ORIGINAL	0802	
DTOP	railroad yard/marshaling yard				ORIGINAL	0802	
FFD	railroad yard/marshalling yard				ORIGINAL	0802	
UVM	railroad yard/marshaling yard				ORIGINAL	0802	
VITD	railroad yard/marshalling yard				ORIGINAL	0802	
VML1	railroad yard/marshalling yard				ORIGINAL	0802	
VML2	railroad yard/marshalling yard				ORIGINAL	0802	
AN075						Α	N075
Point	Full Chart			√ Simp	olified		Point
\bigcirc	Symbol Number 2080 Description black rt diag li	ID Code MAN075P2080 ine inside cir					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	railroad turntable				MIL-STD-2402	1N075P001	
VML2	railroad turntable				MIL-STD-2402	1N075P001	
Area	Full Chart			√ Simp	olified		Area
XX	Symbol Number 4167 Description black cross ha	ID Code MAN075A4167 tch patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	railroad turntable				ORIGINAL	4167	
AP010						A	P010
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3116 Description black very thin	ID Code MAP010L3116 n dash line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
	1						
FFD	cart track				MIL-STD-2402	1P010L001	
					MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1P010L001 1P010L001 1P010L001	

		ID Code MAP010L3117					
Product	Description black thin da Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	cart track	Symbol Assignment Exp	10331011	Official	MIL-STD-2402	1P010L004	
UVM	cart track				MIL-STD-2402 MIL-STD-2402	1P010L004 1P010L004	
VML2	cart track				MIL-STD-2402 MIL-STD-2402	1P010L004	
VIVILZ	cart track				WIIL-S1D-2402	1F010L004	
AP020						A	P020
Point	Full Chart			√ Simp	olified		Point
	Symbol Number 2081 Description black open so	ID Code MAP020P2081					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML1	interchange	<i>y c</i> 1			MIL-STD-2402	1P020P001	
Line	Full Chart			✓ Simplified			Line
	Symbol Number 0605 Description feature brown	ID Code MAP020L0605 n thin solid line	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDAR	D SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	interchange				IHO S-52	LS(SOLD,2,I	LANDF)
	Symbol Number 3121 Description black long da	ID Code MAP020L3121					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	interchange				MIL-STD-2402	1P020L004	
UVM	interchange				MIL-STD-2402	1P020L004	
VML2	interchange				MIL-STD-2402	1P020L004	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0600 Description black very th	ID Code MAP020A0600 in solid line					
	Symbol Number 1602 Description lights yellow	ID Code MAP020A1602 solid fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	interchange				ORIGINAL	0600 1602	
	-						

AP030						AP030
Line	Full Chart			√ Sim	plified	Line
	Symbol Number 0605 ID C Description feature brown thin s	Code MAP030L0605 olid line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	road				IHO S-52	LS(SOLD,2,LANDF)
	Symbol Number 1314 ID C Description black very thin solid	Code MAP030L1314 line				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	road - loose surface, fair/dry/winter	rst=2 AND wtc=2			MIL-STD-2402	1P030L046
DTOP	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
FFD	road - loose surface, fair/dry/winter	rst=2 AND wtc=2			MIL-STD-2402	1P030L046
FFD	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
UVM	road - loose surface, fair/dry/winter	rst=2or3 AND wtc=2or3c	or4		MIL-STD-2402	1P030L046
UVM	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
VITD	road - loose surface, fair/dry/winter	rst=2 AND wtc=2			MIL-STD-2402	1P030L046
VITD	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
VML1	road - loose surface, fair/dry/winter	rst=2or3 AND wtc=2or3			MIL-STD-2402	1P030L046
VML1	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
VML2	road - loose surface, fair/dry/winter	rst=2or3 AND wtc=2or3			MIL-STD-2402	1P030L046
VML2	road - unknown surface and weatherability	rst=0 OR wtc=0			MIL-STD-2402	1P030L046
	Symbol Number 1315 ID C Description red brown double so	Code MAP030L1315				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	road - operational, hard surface, national/state	wtc=1 AND exs=28 ANI			MIL-STD-2402	1P030L002
FFD	road - operational, hard surface, national/state	wtc=1 AND exs=28 ANI	0 med=1 AND rst=1		MIL-STD-2402	1P030L002
UVM	road - operational, hard surface, national/state	wtc=1 AND exs=28 ANI	Oltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L002
VITD	road - operational, hard surface, national/state	wtc=1 AND exs=1 AND	fco=5or6 AND rst=1		MIL-STD-2402	1P030L002
VML0	road - operational, with median	exs=28 AND med=1			MIL-STD-2402	1P030L002
VML1	road - operational, hard surface, national/state	wtc=1 AND exs=28 ANI	0 ltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L002
VML2	road - operational, hard surface, national/state	wtc=1 AND exs=28 ANI) ltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L002

	Symbol Number 1316 ID C Description red brown single line	dode MAP030L1316			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	road - operational, hard surface, interstate/international	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1		MIL-STD-2402	1P030L001
VML1	road - operational, hard surface, interstate/international	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1		MIL-STD-2402	1P030L001
VML2	road - operational, hard surface, interstate/international	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1		MIL-STD-2402	1P030L001
	Symbol Number 1317 ID C Description red brown double da	Pode MAP030L1317 sh thin lines			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	road - non-operational, hard surface, national/state	wtc=1 AND exs<>28 AND med=1 AND rst=1		MIL-STD-2402	1P030L047
FFD	road - non-operational, hard surface, national/state	wtc=1 AND exs<>28 AND med=1 AND rst=1		MIL-STD-2402	1P030L047
UVM	road - non-operational, hard surface, national/state	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L047
VITD	road - non-operational, hard surface, national/state	wtc=1 AND exs<>1 AND fco=5or6 AND rst=1		MIL-STD-2402	1P030L047
VML0	road - non-operational, with median	exs<>28 AND med=1		MIL-STD-2402	1P030L047
VML1	road - non-operational, hard surface, national/state	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L047
VML2	road - non-operational, hard surface, national/state	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1		MIL-STD-2402	1P030L047
	Symbol Number 1571 ID C Description brown thin dash line	ode MAP030L1571			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	road - non-operational, loose surface	wtc=1 AND exs<>28 AND med<>1 AND rst=2		MIL-STD-2402	1P030L049
FFD	road - non-operational, loose surface	wtc=1 AND exs<>28 AND med<>1 AND rst=2		MIL-STD-2402	1P030L049
UVM	road - non-operational, loose surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L049
VITD	road - non-operational, loose surface	wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=2		MIL-STD-2402	1P030L049
VML1	road - non-operational, loose surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L049
VML2	road - non-operational, loose surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L049
	Symbol Number 1855 ID C Description red brown thin solid	line MAP030L1855			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	road - operational, hard, private/other	wtc=1 AND exs=28 AND med<>1 AND rst=1		MIL-STD-2402	1P030L003
FFD	road - operational, hard surface, private/other	wtc=1 AND exs=28 AND med<>1 AND rst=1		MIL-STD-2402	1P030L003
UVM	road - operational, hard surface, private/other	wtc=1 AND exs=28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L003
VITD	road - operational, hard surface, private/other	wtc=1 AND exs=1 AND fco $<$ 5and $<$ 6 AND rst=1		MIL-STD-2402	1P030L003
VML0	road - operational	exs=28 AND med<>1		MIL-STD-2402	1P030L003
VML1	road - operational, hard surface, private/other	wtc=1 AND exs=28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L003
VML2	road - operational, hard surface, private/other	wtc=1 AND exs=28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L003

	Symbol Number 3012 ID Co Description brown thin solid line	de MAP030L3012			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	road - operational - loose surface	wtc=1 AND exs=28 AND med<>1 AND rst=2		MIL-STD-2402	1P030L009
FFD	road - operational - loose surface	wtc=1 AND exs=28 AND med >1 AND rst=2		MIL-STD-2402	1P030L009
UVM	road - operational - loose surface	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L009
VITD	road - operational - loose surface	wtc=1 AND exs=1 AND fco<>5and<>6 AND rst=2		MIL-STD-2402	1P030L009
VML1	road - operational, loose surface	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L009
VML2	road - operational - loose surface	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3		MIL-STD-2402	1P030L009
	Symbol Number 3014 ID Co Description brown solid line	de MAP030L3014			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	road - operational, loose surface, no median	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3		MIL-STD-2402	1P030L011
VML1	road - operational, loose surface, no median	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3		MIL-STD-2402	1P030L011
VML2	road - operational, loose surface, no median	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3		MIL-STD-2402	1P030L011
	Symbol Number 3021 ID Co Description red brown dashed line	de MAP030L3021			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	road - non-operational, hard surface, no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1	1	MIL-STD-2402	1P030L048
VML1	road - non-operational, hard surface, no median	wtc=1 AND exs<>28 AND med<>1 AND rst=1 AND ltn>=2		MIL-STD-2402	1P030L048
VML2	road - non-operational, hard surface, no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1		MIL-STD-2402	1P030L048
	Symbol Number 3028 ID Co Description red brown thin dash li	de MAP030L3028 ne			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	road - non-operational, hard surface	wtc=1 AND exs<>28 AND med<>1 AND rst=1		MIL-STD-2402	1P030L023
FFD	road - non-operational, hard surface	wtc=1 AND exs<>28 AND med<>1 AND rst=1		MIL-STD-2402	1P030L023
UVM	road - non-operational, hard surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L023
VITD	road - non-operational, hard surface	wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=1		MIL-STD-2402	1P030L023
VML0	road - non-operational	exs<28 AND med<1		MIL-STD-2402	1P030L023
VML1	road - non-operational, hard surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L023
VML2	road - non-operational, hard surface	wtc=1 AND exs<>28 AND ltn<2 AND rst=1		MIL-STD-2402	1P030L023
	Symbol Number 4319 ID Co Description brown dash line	de MAP030L4319			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	road - non-operational, loose surface, no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3		MIL-STD-2402	1P030L051
VML1		wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3)	MIL-STD-2402	1P030L051
VML2	road - non-operational, loose surface, no	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND)	MIL-STD-2402	1P030L051

		AI I LINDIA A				
	Symbol Number 4320 ID Co	de MAP030L4320				
	Description brown double solid th					
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	road - operational, loose surface, with	wtc=1 AND exs=28 AND med=1 AND rst=2	Official	ORIGINAL	4320	
	median			ODYGDYLY	1220	
— FFD UVM	road - operational, loose surface, median road - operational, loose surface, with	wtc=1 AND exs=28 AND med=1 AND rst=2 wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND		ORIGINAL ORIGINAL	4320	
UVIVI	median	rst=2or3		OKIGINAL	4320	
VITD	road - operational, loose surface, median	wtc=1 AND exs=1 AND fco=5or6 AND rst=2		ORIGINAL	4320	
VML1	road - operational, loose surface, median	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3		ORIGINAL	4320	
VML2	road - operational, loose surface, median	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3		ORIGINAL	4320	
	Symbol Number 4321 ID Co	de MAP030L4321				
	Description brown double dash thi	n line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	road - non-operational, loose surface,	wtc=1 AND exs<>28 AND med=1 AND rst=2		ORIGINAL	4321	
FFD	with median road - non-operational, loose surface, with median	wtc=1 AND exs<>28 AND med=1 AND rst=2		ORIGINAL	4321	
UVM	road - non-operational, loose surface, with median	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3		ORIGINAL	4321	
VITD	road - non-operational, loose surface, with median	wtc=1 AND exs<>1 AND fco=5or6 AND rst=2		ORIGINAL	4321	
VML1	road - non-operational, loose surface, with median	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3		ORIGINAL	4321	
VML2	road - non-operational, loose surface, with median	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3		ORIGINAL	4321	
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 4036 ID Co Description red brown solid fill	de MAP030A4036				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	road - operational	exs=0or28or999		ORIGINAL	4036	
	Symbol Number 4037 ID Co Description red brown horizontal	de MAP030A4037 ine patt fill				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	road - non-operational	exs=5or6or7		ORIGINAL	4037	
AP040					ļ.	AP040
Point	Full Chart		√ Sim	plified		Point
\odot	Symbol Number 2038 ID Co Description black dot w/ parallel la	de MAP040P2038 ines inside circle				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	gate			ORIGINAL	2038	

AP050						AP050
Line	Full Chart		✓	Simp	lified	Line
	Symbol Number 0656 ID Description gray very thin dash	Code MAP050L0656				
Product	Feature Description	Symbol Assignment Expr	ression O	Prient	Source	Source ID
DTOP	trail				MIL-STD-2402	1P050L003
FFD	trail				MIL-STD-2402	1P050L003
UVM	trail				MIL-STD-2402	1P050L003
VML0	trail				MIL-STD-2402	1P050L003
VML1	trail				MIL-STD-2402	1P050L003
VML2	trail				MIL-STD-2402	1P050L003
AQ010						AQ010
Line	Full Chart		✓	Simp	lified	Line
	Symbol Number 0657 ID Description gray thick dash line	Code MAQ010L0657	(SIMPLIFIED SYMBOLOGY	' SAME	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression O	Prient	Source	Source ID
✓ DNC	aerial cableway lines/ski lift lines				IHO S-52	LC(DACH A CHCDD)
						LS(DASH,4,CHGRD)
DTOP	aerial cableway lines/ski lift lines				IHO S-52	LS(DASH,4,CHGRD)
UVM	aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines				IHO S-52 IHO S-52	
						LS(DASH,4,CHGRD)
UVM	aerial cableway lines/ski lift lines				IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD)
UVM VML0	aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines				IHO S-52 IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD)
UVM VML0 VML1	aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines				IHO S-52 IHO S-52 IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD)
UVM VML0 VML1 VML2	aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines		•	Simple	IHO S-52 IHO S-52 IHO S-52 IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD)
UVM VML0 VML1 VML2	aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines aerial cableway lines/ski lift lines Full Chart	Code MAQ020P0024	(SIMPLIFIED SYMBOLOGY		IHO S-52 IHO S-52 IHO S-52 IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) Poin
UVM VML0 VML1 VML2 AQ020 Point	aerial cableway lines/ski lift lines Full Chart Symbol Number 0024 ID		(SIMPLIFIED SYMBOLOGY	' SAME	IHO S-52 IHO S-52 IHO S-52 IHO S-52	LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) LS(DASH,4,CHGRD) Poin

AQ040					AQ040
Point	Full Chart		√ Sim	plified	Point
\asymp	Symbol Number 2083 Description black double	ID Code MAQ040P2083 e line with flares on ends			
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID
DTOP	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
FFD	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
UVM	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
VITD	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
VML0	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
VML1	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
VML2	bridge/overpass/viaduct			MIL-STD-2402	1Q040P012
Line	Full Chart		√ Sim	plified	Line
	Symbol Number 0627 Description gray very thi	ID Code MAQ040L0627	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID
✓ DNC	bridge/overpass/viaduct	bsc<>12 AND bot<>4an		IHO S-52	LS(SOLD,5,CHGRD)
P. 1.	Symbol Number 0751 Description black solid l				g ID
Product	Feature Description	Symbol Assignment Exp	oression Orient	Source	Source ID
DTOP	1 1 / / / 1 /			N. GTD 2402	100401010#
FFD	bridge/overpass/viaduct			MIL-STD-2402	1Q040L019*
FFD	bridge/overpass/viaduct			MIL-STD-2402	1Q040L019*
UVM	bridge/overpass/viaduct bridge/overpass/viaduct			MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019*
UVM VITD	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0 VML1	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0 VML1	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct	ID Code MAQ040L0753 ay line w/ cntrd magenta dbl cir	(SIMPLIFIED SYMBOLOGY SAM	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0 VML1	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct	· · · · · · · · · · · · · · · · · · ·		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019*
UVM VITD VML0 VML1 VML2	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct Symbol Number 0753 Description very thek gra	ay line w/ cntrd magenta dbl cir	pression Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* D SYMBOLOGY)
UVM VITD VML0 VML1 VML2 Product	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct Symbol Number 0753 Description very thek gra	ay line w/ cntrd magenta dbl cir Symbol Assignment Exp	pression Orient	MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* D SYMBOLOGY) Source ID LC=LS(SOLD,5,CHG RD) + SY(BRIDGE01)
UVM VITD VML0 VML1 VML2 Product ✓ DNC	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct Symbol Number 0753 Description very thek gra Feature Description bridge/overpass/viaduct	Symbol Assignment Exp bsc=12 OR bot=4or10or ID Code MAQ040A0611	oression Orient	MIL-STD-2402	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* D SYMBOLOGY) Source ID LC=LS(SOLD,5,CHG RD) + SY(BRIDGE01) Area
UVM VITD VML0 VML1 VML2 Product ✓ DNC	bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct bridge/overpass/viaduct Symbol Number 0753 Description very thek gra Feature Description bridge/overpass/viaduct Full Chart	Symbol Assignment Exp bsc=12 OR bot=4or10or ID Code MAQ040A0611	Orient Orient (SIMPLIFIED SYMBOLOGY SAM	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52	1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* 1Q040L019* D SYMBOLOGY) Source ID LC=LS(SOLD,5,CHG RD) + SY(BRIDGE01) Area

	Symbol Number 1572	ID Code MAQ040A1572				
	Description black thin so	lid dbl lines w/ flares on ea end				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
UVM	bridge/overpass/viaduct				MIL-STD-2402	1Q040A002*
	Symbol Number 0046 Description magenta sma	ID Code MAQ040A0046 Il circle inside circle	(SIMPLIFIED SYMBOLOGY	Y SAM	E AS STANDARI	O SYMBOLOGY)
	Symbol Number 0611 Description gray thick so	ID Code MAQ040A0611 lid line	(SIMPLIFIED SYMBOLOGY	Y SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
✓ DNC	bridge/overpass/viaduct	bsc=12 OR bot=4or10or	11		IHO S-52	SY(BRIDGE01) +
						LS(SOLD,4,CHGRD)
AQ045						AQ045
Point	Full Chart		•	/ Simp	olified	Point
\asymp	Symbol Number 2083 Description black double	ID Code MAQ045P2083 line with flares on ends				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DTOP	bridge span				ORIGINAL	2083
VITD	bridge span				ORIGINAL	2083
Line	Full Chart		J	/ Simp	plified	Line
	Symbol Number 0627	ID Code MAQ045L0627	(SIMPLIFIED SYMBOLOG)	Y SAM	E AS STANDARI	O SYMBOLOGY)
	Description gray very thic	ck solid line	(,
Product	Feature Description Feature Description	ck solid line Symbol Assignment Exp	`	Orient	Source	Source ID
Product ✓ DNC	1 0 1		`	Orient	Source IHO S-52	,
	Feature Description		ression (Orient Simp	IHO S-52	Source ID
✓ DNC	Feature Description bridge span	Symbol Assignment Exp ID Code MAQ045A0611	ression (/ Simp	IHO S-52	Source ID LS(SOLD,5,CHGRD) Area
✓ DNC	Feature Description bridge span Full Chart Symbol Number 0611	Symbol Assignment Exp ID Code MAQ045A0611	ression (SIMPLIFIED SYMBOLOGY	/ Simp	IHO S-52 Diffied E AS STANDARI	Source ID LS(SOLD,5,CHGRD) Area
✓ DNC Area	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so	Symbol Assignment Exp ID Code MAQ045A0611 lid line	ression (SIMPLIFIED SYMBOLOGY	✓ Simp	IHO S-52 Diffied E AS STANDARI	Source ID LS(SOLD,5,CHGRD) Area CSYMBOLOGY)
✓ DNC Area Product	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so Feature Description	Symbol Assignment Exp ID Code MAQ045A0611 lid line	ression (SIMPLIFIED SYMBOLOGY	✓ Simp	IHO S-52 Diffied E AS STANDARI Source	Source ID LS(SOLD,5,CHGRD) Area SYMBOLOGY) Source ID
✓ DNC Area Product	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so Feature Description	Symbol Assignment Exp ID Code MAQ045A0611 lid line	ression (SIMPLIFIED SYMBOLOGY	✓ Simp	IHO S-52 Diffied E AS STANDARI Source	Source ID LS(SOLD,5,CHGRD) Area SYMBOLOGY) Source ID
✓ DNC Area Product ✓ DNC	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so Feature Description	Symbol Assignment Exp ID Code MAQ045A0611 lid line	ression (SIMPLIFIED SYMBOLOGY)	✓ Simp	IHO S-52 Diffied E AS STANDARI Source IHO S-52	Source ID LS(SOLD,5,CHGRD) Area SYMBOLOGY) Source ID LS(SOLD,4,CHGRD)
✓ DNC Area Product ✓ DNC AQ058	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so Feature Description bridge span	Symbol Assignment Exp ID Code MAQ045A0611 lid line Symbol Assignment Exp ID Code MAQ058P1171	ression (SIMPLIFIED SYMBOLOGY)	Simp Y SAM Orient	IHO S-52 Diffied E AS STANDARI Source IHO S-52	Source ID LS(SOLD,5,CHGRD) Area SYMBOLOGY) Source ID LS(SOLD,4,CHGRD)
✓ DNC Area Product ✓ DNC AQ058	Feature Description bridge span Full Chart Symbol Number 0611 Description gray thick so Feature Description bridge span Full Chart Symbol Number 1171	Symbol Assignment Exp ID Code MAQ045A0611 lid line Symbol Assignment Exp ID Code MAQ058P1171	ression (SIMPLIFIED SYMBOLOGY) ression (Simp Y SAM Orient	IHO S-52 Diffied E AS STANDARI Source IHO S-52	Source ID LS(SOLD,5,CHGRD) Area SYMBOLOGY) Source ID LS(SOLD,4,CHGRD)

		7.1.2.1					
X	Symbol Number 2087 Description black opposin	ID Code MAQ058P2087 g solid triangles pnting in					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	constriction/expansion				MIL-STD-2402	1Q058P001	
VITD	constriction/expansion	wd1<40			MIL-STD-2402	1Q058P001	
AQ060						A	Q060
Point	Full Chart			√ Sim	plified		Point
Ţ	Symbol Number 0004 Description black tower sy	ID Code MAQ060P0004 vmbol	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOG	iY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	control tower				IHO S-52	SY(TOWERS	03)
_							
\odot	Symbol Number 2088 Description purple dot inst	ID Code MAQ060P2088 ide cir					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	control tower				MIL-STD-2402	1Q060P007	
UVM	control tower				MIL-STD-2402	1Q060P007	
VML1	control tower				MIL-STD-2402	1Q060P007	
VML2	control tower				MIL-STD-2402	1Q060P007	
AQ064						A	Q064
Point	Full Chart			√ Sim _l	plified		Point
-	Symbol Number 2089 Description black cir w/ for	ID Code MAQ064P2089 our outer tics and dot inside					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
VML0	causeway				ORIGINAL	2089	
Line	Full Chart			√ Simp	plified		Line
IIIIII	Symbol Number 3142 Description black parallel	ID Code MAQ064L3142 vy thin lines w/ tics (ladder patt)					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
VML0	causeway				MIL-STD-2402	2H100L001	
	<u> </u>						

AQ065					AQ06
Point	Full Chart		✓	Simplified	Ро
©	Symbol Number 2090 Description black cir w/ C	ID Code MAQ065P2090 inside			
Product	Feature Description	Symbol Assignment Exp	ression O	rient Source	Source ID
DTOP	culvert	, ,		MIL-STD-2402	1Q065P002
VML2	culvert			MIL-STD-2402	1Q065P002
Line	Full Chart		✓	Simplified	Lii
	Symbol Number 1572 Description black thin soli	ID Code MAQ065L1572 id dbl lines w/ flares on ea end			
Product	Feature Description	Symbol Assignment Exp	ression O	rient Source	Source ID
UVM	culvert			MIL-STD-2402	1Q065P001*
Area	Full Chart		✓	Simplified	Ar
	Symbol Number 0600 Description black very thi	ID Code MAQ065A0600 n solid line			
Product	Feature Description	Symbol Assignment Exp	ression O	rient Source	Source ID
UVM	culvert			ORIGINAL	0600
AQ070					AQ07
Point	Full Chart		✓	Simplified	Ро
F	Symbol Number 1005 Description black F inside	ID Code MAQ070P1005 boat			
Product	Feature Description	Symbol Assignment Exp	ression O	rient Source	Source ID
DTOP	ferry crossing			ORIGINAL	1005
FFD	ferry crossing			ORIGINAL	1005
UVM	ferry crossing			ORIGINAL	1005
VITD	ferry crossing			ORIGINAL	1005
VML0	ferry crossing			ORIGINAL	1005
VML1	ferry crossing			ORIGINAL	1005
VML2	ferry crossing			ORIGINAL	1005
Line	Full Chart		√	Simplified	Liı
	Symbol Number 0700 Description magenta dash	ID Code MAQ070L0700 very thin line w/ boat shape	(SIMPLIFIED SYMBOLOGY	SAME AS STANDAF	RD SYMBOLOGY)
-0					
Product	Feature Description	Symbol Assignment Exp	ression O	rient Source	Source ID

0	Symbol Number 0701 Description black dash vo	ID Code MAQ070L0701 ery thin line w/ boat shape	(SIMPLIFIED SYMBOLOGY	/ SAMI	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	ferry crossing - with cables	fer=1			IHO S-52	LC(FERYRT02)
	Symbol Number 3115 Description black thin sh	ID Code MAQ070L3115 ort dash line				
Product	Feature Description	Symbol Assignment Expr	ression (Orient	Source	Source ID
DTOP	ferry crossing				MIL-STD-2402	1Q070L004
FFD	ferry crossing				MIL-STD-2402	1Q070L004
UVM	ferry crossing				MIL-STD-2402	1Q070L004
VITD	ferry crossing				MIL-STD-2402	1Q070L004
VML0	ferry crossing				MIL-STD-2402	1Q070L004
VML1	ferry crossing				MIL-STD-2402	1Q070L004
VML2	ferry crossing				MIL-STD-2402	1Q070L004
AQ080						AQ080
Point	Full Chart			Simp	olified	Poir
i	0 1 111 1 0006					
	Symbol Number 0096 Description magenta squa	ID Code MAQ080P0096 are w/ i	(SIMPLIFIED SYMBOLOGY	SAMI	E AS STANDARI	O SYMBOLOGY)
Product			,		E AS STANDARI	Source ID
	Description magenta squa	are w/ i	,			,
Product	Description magenta squa	are w/ i	,		Source	Source ID
Product ✓ DNC	Description magenta squa	are w/ i	ression		Source IHO S-52	Source ID SY(CHINFO07)
Product ✓ DNC AQ090	Feature Description ferry site	Symbol Assignment Expr ID Code MAQ090P2038	ression	Orient	Source IHO S-52	Source ID SY(CHINFO07) AQ090
Product ✓ DNC AQ090	Feature Description ferry site Full Chart Symbol Number 2038	Symbol Assignment Expr ID Code MAQ090P2038	ression	Orient Simp	Source IHO S-52	Source ID SY(CHINFO07) AQ090
Product ✓ DNC AQ090 Point	Feature Description ferry site Full Chart Symbol Number 2038 Description black dot w/	Symbol Assignment Expr ID Code MAQ090P2038 parallel lines inside circle	ression	Orient Simp	Source IHO S-52	Source ID SY(CHINFO07) AQ090 Poir
Product ✓ DNC AQ090 Point Product	Feature Description ferry site Full Chart Symbol Number 2038 Description black dot w/	Symbol Assignment Expr ID Code MAQ090P2038 parallel lines inside circle	ression	Orient Simp	Source IHO S-52 Diffied Source	Source ID SY(CHINFO07) AQ090 Poir Source ID
Product ✓ DNC AQ090 Point Product UVM	Feature Description ferry site Full Chart Symbol Number 2038 Description black dot w/	Symbol Assignment Expr ID Code MAQ090P2038 parallel lines inside circle	ression (Orient Simp	Source IHO S-52 Diffied Source ORIGINAL	Source ID SY(CHINFO07) AQ090 Poir Source ID 2038
Product ✓ DNC AQ090 Point Product UVM	Feature Description ferry site Full Chart Symbol Number 2038 Description black dot w/ Feature Description entrance/exit Full Chart Symbol Number 0026	Symbol Assignment Expr ID Code MAQ090P2038 parallel lines inside circle	ression (Orient Orient Simp	Source IHO S-52 Diffied Source ORIGINAL	Source ID SY(CHINFO07) AQ090 Poir Source ID 2038 AQ110
Product ✓ DNC AQ090 Point Product UVM AQ110 Point	Feature Description ferry site Full Chart Symbol Number 2038 Description black dot w/ Feature Description entrance/exit Full Chart Symbol Number 0026	ID Code MAQ090P2038 parallel lines inside circle Symbol Assignment Expr	ression (SIMPLIFIED SYMBOLOGY	Simporient Simp	Source IHO S-52 Diffied Source ORIGINAL	Source ID SY(CHINFO07) AQ090 Poir Source ID 2038 AQ110

		APPER	NDIX A			
	Symbol Number 2094	ID Code MAQ110P2094				
	Description purple solid e	lipse extending from pole				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	mooring mast				MIL-STD-2402	1Q110P002
UVM	mooring mast				MIL-STD-2402	1Q110P002
VML1	mooring mast				MIL-STD-2402	1Q110P002
VML2	mooring mast				MIL-STD-2402	1Q110P002
AQ111						AQ111
Point	Full Chart			√ Sim	plified	Point
\searrow	Symbol Number 1171 Description black opposin	ID Code MAQ111P1171 g open equi triangles				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	prepared raft or float bridge site				MIL-STD-2402	1Q111P001
VITD	prepared raft or float bridge site				MIL-STD-2402	1Q111P001
Line	Full Chart			√ Sim	plified	Line
	Symbol Number 3115 Description black thin sho	ID Code MAQ111L3115 rt dash line				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
VITD	prepared raft or float bridge site				MIL-STD-2402	1Q070L004
AQ113						AQ113
Line	Full Chart			√ Sim	nlifi a d	Line
LIIIE	Full Chart			♥ SIIII	pililea	LIIIE
	Symbol Number 0610 Description gray solid line	ID Code MAQ113L0610	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	pipeline/pipe - above ground or owater	over loc=25			IHO S-52	LS(SOLD,3,CHGRD)
	0 0 1 111 1 0704	m a 1 2/10/19/0504				
	Symbol Number 0704 Description gray dash ver	ID Code MAQ113L0704 / thin line w/ sm cir	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	pipeline/pipe - not above ground water; sewage, outfall, intake	or over loc<>25 AND pro=95 O	R plt=2or3		IHO S-52	LC(PIPSOL06)
✓ DNC	pipeline/pipe - not above ground water; water	or over loc<>25 AND pro=116			IHO S-52	LC(PIPSOL06)
_0_0_	Symbol Number 0705 Description magenta dash	ID Code MAQ113L0705 very thin line w/ cir	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	pipeline/pipe - not above ground water; not sewage or water	or over loc≪25 AND pro≪95a	nd<>116 AND plt<>2and<>3		IHO S-52	LC(PIPSOL05)

	Symbol Number 1303 ID Co	ode MAQ113L1303 ine w/ circle			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	pipeline/pipe - undergound; water	loc=4 AND pro=116		MIL-STD-2402	1L160L002*
VML1	pipeline/pipe - undergound; water	loc=4 AND pro=116		MIL-STD-2402	1L160L002*
VML2	pipeline/pipe - undergound; water	loc=4 AND pro=116		MIL-STD-2402	1L160L002*
	Symbol Number 1304 ID Co Description basic blue thin dash I	ode MAQ113L1304 ine w/ dot			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	pipeline/pipe - water	pro=116		MIL-STD-2402	1L160L002*
UVM	pipeline/pipe - on or above ground; water	er loc<>4 AND pro=116		MIL-STD-2402	1L160L002*
VML1	pipeline/pipe - on or above ground; water	er loc<>4 AND pro=116		MIL-STD-2402	1L160L002*
VML2	pipeline/pipe - on or above ground; water	er loc<>4 AND pro=116		MIL-STD-2402	1L160L002*
	Symbol Number 1305 ID Co Description brown dash thin line	ode MAQ113L1305 w/ dot			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	pipeline/pipe - not water	pro⇔116		MIL-STD-2402	1L160L002*
UVM	pipeline/pipe - on or above ground; not water	loc<>4 AND pro<>116		MIL-STD-2402	1L160L002*
VITD	pipeline/pipe			MIL-STD-2402	1L160L002*
VML0	pipeline/pipe - on ground	loc=8		MIL-STD-2402	1L160L002*
VML1	pipeline/pipe - on or above ground; not water	loc<>4 AND pro<>116		MIL-STD-2402	1L160L002*
VML2	pipeline/pipe - on or above ground; not water	loc<>4 AND pro<>116		MIL-STD-2402	1L160L002*
	Symbol Number 3022 ID Co Description brown thin dash line	ode MAQ113L3022 w/ open cir			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	pipeline/pipe - underground; not water	loc=4 AND pro<>116		MIL-STD-2402	1L160L002*
VML0	pipeline/pipe - underground	loc=4		MIL-STD-2402	1L160L002*
VML1	pipeline/pipe - underground; not water	loc=4 AND pro<>116		MIL-STD-2402	1L160L002*
VML2	pipeline/pipe - underground; not water	loc=4 AND pro<>116		MIL-STD-2402	1L160L002*
AQ116					AQ116
Point	Full Chart		√ Sim _l	plified	Point
	Symbol Number 0002 ID Co Description feature brown filled s	ode MAQ116P0002 quare w/ black outline (SIMPLIFIED SYM	MBOLOGY SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	pumping station			IHO S-52	SY(BUISGL11)

		7 to 1 = 1					
Р	Symbol Number 2097 Description black sm squ	ID Code MAQ116P2097 nare w/ P inside					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	pumping station				MIL-STD-2402	1L180P002*	
UVM	pumping station				MIL-STD-2402	1L180P002*	
VML0	pumping station				MIL-STD-2402	1L180P002*	
VML1	pumping station				MIL-STD-2402	1L180P002*	
VML2	pumping station				MIL-STD-2402	1L180P002*	
Area	Full Chart			√ Simp	plified		Area
	Symbol Number 0600 Description black very th	ID Code MAQ116A0600 nin solid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDARI	D SYMBOLOG	GY)
	Symbol Number 0804 Description brown solid	ID Code MAQ116A0804 fill	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDARI	D SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	pumping station				IHO S-52	LS(SOLD,1,C + AC(CHBR)	
	Symbol Number 4262 Description purple thin d	ID Code MAQ116A4262 ash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	pumping station				MIL-STD-2402	1L180A001	
UVM	pumping station				MIL-STD-2402	1L180A001	
VML2	pumping station				MIL-STD-2402	1L180A001	
AQ118						A	Q118
Point	Full Chart			√ Simp	plified		Point
(\$)	Symbol Number 1172 Description black diamon	ID Code MAQ118P1172 nd w/ curve staffed arrow					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	sharp curve(s)				MIL-STD-2402	1Q118P001	
VITD	sharp curve(s)				MIL-STD-2402	1Q118P001	
AQ120						A	Q120
Point	Full Chart			√ Simp	plified		Point
>>	Symbol Number 1211 Description black two rt	ID Code MAQ120P1211 pointing triangles					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	steep grade				MIL-STD-2402	1Q125P001	
-	1.0				·		

AQ125						A	Q125
Point	Full Chart			√ Simp	olified		Point
0	Symbol Number 2099 Description black dot insi	ID Code MAQ125P2099 de cir inside square					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	station (miscellaneous)				ORIGINAL	2099	
Area	Full Chart			√ Sim _l	olified		Area
	Symbol Number 4156 Description black solid fil	ID Code MAQ125A4156					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	station (miscellaneous)				ORIGINAL	4156	
	· · · · · · · · · · · · · · · · · · ·						
AQ130						A	Q130
Point	Full Chart			√ Sim _l	olified		Point
T	Symbol Number 2100 Description black box w/	ID Code MAQ130P2100 round top w/ "T" inside					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	tunnel	, , ,			ORIGINAL	2100	
FFD	tunnel				ORIGINAL	2100	
VITD	tunnel				ORIGINAL	2100	
VML0	tunnel				ORIGINAL	2100	
VML1	tunnel				ORIGINAL	2100	
VML2	tunnel				ORIGINAL	2100	
Line	Full Chart			√ Sim _l	olified		Line
	Symbol Number 0656 Description gray very thir	ID Code MAQ130L0656 a dash line	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	D SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	tunnel				IHO S-52	LS(DASH,1,0	CHGRD)
•	Symbol Number 3141 Description black three da	ID Code MAQ130L3141 ash one dot very thin line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	tunnel				MIL-STD-2402	1Q131L002*	
FFD	tunnel				MIL-STD-2402	1Q131L002*	
UVM	tunnel				MIL-STD-2402	1Q131L002*	
VITD	tunnel				MIL-STD-2402	1Q131L002*	
VML0	tunnel				MIL-STD-2402	1Q131L002*	
VIVILO							
VML1	tunnel				MIL-STD-2402	1Q131L002*	

Area	Full Chart			√ Simp	olified		Area
	Symbol Number 3112 Description black thin s	ID Code MAQ130A3112 solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	tunnel				ORIGINAL	3112	
AQ135						Α	Q135
Point	Full Chart			√ Simp	olified		Point
R	Symbol Number 2101 Description red brown	ID Code MAQ135P2101 octagon shape w/ "R" inside					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML1	vehicle stopping area/rest area	1			ORIGINAL	2101	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4240 Description red solid th						
	Symbol Number 1610 Description red left dia	ID Code MAQ135A1610 g line patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	vehicle stopping area/rest area	1			ORIGINAL	4240 1610	
VML2	vehicle stopping area/rest area	ì			ORIGINAL	4240 1610	
AQ140						Α	Q140
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4240 Description red solid th	ID Code MAQ140A4240 nin line					
	Symbol Number 1610 Description red left dia	ID Code MAQ140A1610 g line patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	vehicle storage/parking area				ORIGINAL	4240 1610	
UVM	vehicle storage/parking area				ORIGINAL	4240 1610	
VML2	vehicle storage/parking area				ORIGINAL	4240 1610	

AQ150			AQ150
Area	Full Chart	√ Simp	plified Area
	Symbol Number 0802 ID Code MAQ150A0802 Description gray solid fill		
Product	Feature Description Symbol Assignment Exp	pression Orient	Source ID
UVM	flight of steps		ORIGINAL 0802
AT005			AT005
Line	Full Chart	√ Simp	plified Line
~~^	Symbol Number 0708 ID Code MAT005L0708 Description magenta broken zig-zag line w/ flash symbol	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Orient	Source Source ID
✓ DNC	cable	- 100 to 1	IHO S-52 LC(CBLSUB06)
AT010			AT010
Point	Full Chart	√ Simp	
Ħ	Symbol Number 2102 ID Code MAT010P2102 Description black satellite dish symbol	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Orient	Source Source ID
✓ DNC	disk/dish		IHO S-52 SY(DSHAER11)
DTOP	disk/dish		IHO S-52 SY(DSHAER11)
UVM	disk/dish		IHO S-52 SY(DSHAER11)
VML1	disk/dish		IHO S-52 SY(DSHAER11)
VML2	disk/dish		IHO S-52 SY(DSHAER11)
Area	Full Chart	√ Simp	plified Area
	Symbol Number 4089 ID Code MAT010A4089 Description magenta solid fill		
Product	Feature Description Symbol Assignment Exp	pression Orient	Source ID
UVM	disk/dish		ORIGINAL 4089
AT020			AT020
Point	Full Chart	√ Simp	plified Poin
(3)	Symbol Number 2105 ID Code MAT020P2105 Description black cir around satellite dish symbol		
	E . D	. 0: 4	a a m
Product	Feature Description Symbol Assignment Exp	oression Orient	Source ID

Line	Full Chart			√ Simp	plified	Line
mm	Symbol Number 3064 Description magenta thin	ID Code MAT020L3064 a wavy solid line				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
UVM	early warning radar site				ORIGINAL	3064
Area	Full Chart			√ Simp	plified	Area
	Symbol Number 0600 Description black very the	ID Code MAT020A0600 nin solid line	(SIMPLIFIED SYMBOLOG	3Y SAM	E AS STANDARI	D SYMBOLOGY)
	Symbol Number 0804 Description brown solid	ID Code MAT020A0804 fill	(SIMPLIFIED SYMBOLOG	3Y SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	early warning radar site				IHO S-52	LS(SOLD,1,CHBLK) + AC(CHBRN)
Mondondon	Symbol Number 1513 Description magenta jags	ID Code MAT020A1513 ged line				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
UVM	early warning radar site				ORIGINAL	1513
AT030						AT030
Line	Full Chart			√ Simp	plified	Line
	Symbol Number 0657 Description gray thick da	ID Code MAT030L0657 ash line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	power transmission line				IHO S-52	LS(DASH,4,CHGRD)
, ,	Symbol Number 3074 Description purple thin s	ID Code MAT030L3074 olid line w/ dots on each side				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	power transmission line				MIL-STD-2402	1T030L007
UVM	power transmission line				MIL-STD-2402	1T030L007
VML0	power transmission line				MIL-STD-2402	1T030L007
VML1	power transmission line				MIL-STD-2402	1T030L007
VML2	power transmission line				MIL-STD-2402	1T030L007

AT040						AT040
Point	Full Chart			∕ Simp	olified	Point
•	Symbol Number 0024 Description black dot inside	ID Code MAT040P0024 cir	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	power transmission pylon				IHO S-52	SY(POSGEN03)
\square	Symbol Number 2104 Description purple tower sy	ID Code MAT040P2104 mbol				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
UVM	power transmission pylon				ORIGINAL	2104
AT045						AT045
Point	Full Chart		•	✓ Simp	olified	Point
	Symbol Number 0028 Description black dome insi	ID Code MAT045P0028 de lg magenta circle	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	radar transmitter - dome	ssc=87			IHO S-52	SY(DOMES011)+SY(RDOSTA02)
Ī	Symbol Number 0029 Description black rectangle	ID Code MAT045P0029 below T in lg magenta cir	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	radar transmitter - scanner	ssc=108			IHO S-52	SY(RASCAN11)+SY(RDOSTA02)
	Symbol Number 0030 Description black triangle w	ID Code MAT045P0030 / in lg magenta cir	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	radar transmitter - mast	ssc=60			IHO S-52	SY(MSTCON14)+SY(RD0STA02)
	Symbol Number 0031 Description black tower insi	ID Code MAT045P0031 de lg magenta cir	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	radar transmitter - tower	ssc=107			IHO S-52	SY(TOWERS03)+SY(RDOSTA02)
	Symbol Number 0511 Description lg magenta cir	ID Code MAT045P0511	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID

		ALLEN	IDIX A			
(B)	Symbol Number 2105	ID Code MAT045P2105				
T)	Description black cir aro	und satellite dish symbol				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
UVM	radar transmitter				ORIGINAL	2105
Line	Full Chart		✓	Simp	olified	Lir
	Symbol Number 3061 Description magenta thin	ID Code MAT045L3061 dotted line				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
UVM	radar transmitter				ORIGINAL	3061
Area	Full Chart		•	Simp	olified	Are
Monthonthonthon	Symbol Number 1513 Description magenta jagg	ID Code MAT045A1513 ged line				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
UVM	radar transmitter				ORIGINAL	1513
AT050						AT05
Point	Full Chart		✓	Simp	olified	Poi
	Symbol Number 0033 Description feature brow	ID Code MAT050P0033 n fill sqr black otln in lg mgnta cir	(SIMPLIFIED SYMBOLOGY	'SAM	E AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
✓ DNC	communication building				IHO S-52	SY(BUISGL11)+SY DOSTA02)
+	Symbol Number 2106 Description black filled s	ID Code MAT050P2106 equare w/ outward ticks				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID
DTOP	communication building				MIL-STD-2402	1T050P020*
UVM	communication building				MIL-STD-2402	1T050P020*
VML0	communication building				MIL-STD-2402	1T050P020*
VML2	communication building				MIL-STD-2402	1T050P020*
Area	Full Chart		•	Simp	olified	Are
	Symbol Number 4089 Description magenta soli	ID Code MAT050A4089 d fill				
Product	Feature Description	Symbol Assignment Exp	ression O	rient	Source	Source ID

		APPEN	IDIX A			
	Symbol Number 3117 Description black thin das	ID Code MAT050A3117				
	Symbol Number 4109 Description depth gray sol	ID Code MAT050A4109 lid fill				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	communication building				MIL-STD-2402	1T050A005*
VML2	communication building				MIL-STD-2402	1T050A005*
AT060						AT060
Line	Full Chart			√ Simp	olified	Line
	Symbol Number 0657 Description gray thick das	ID Code MAT060L0657 sh line	(SIMPLIFIED SYMBOLOG	BY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	telephone line/telegraph line				IHO S-52	LS(DASH,4,CHGRD)
	Symbol Number 3096 Description gray very rhim	ID Code MAT060L3096 a dash line w/ dot				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	telephone line/telegraph line				MIL-STD-2402	1T060L002*
UVM	telephone line/telegraph line				MIL-STD-2402	1T060L002*
VML0	telephone line/telegraph line				MIL-STD-2402	1T060L002*
VML1 VML2	telephone line/telegraph line				MIL-STD-2402	1T060L002* 1T060L002*
VIVIL2	telephone line/telegraph line				MIL-STD-2402	11000L002*
AT070						AT070
Point	Full Chart			√ Simp	olified	Point
$\overline{}$	Symbol Number 2107 Description black vert line	ID Code MAT070P2107 e w/ two horiz lines at top				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
UVM	telephone-telegraph pylon/pole				ORIGINAL	2107
AT080						AT080
Point	Full Chart			√ Simp	olified	Point
	Symbol Number 0004 Description black tower sy	ID Code MAT080P0004 ymbol	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	communication tower				IHO S-52	SY(TOWERS03)
_						

		ALLEN	NDIX A			
((w))	Symbol Number 2108 ID Co Description black tower w/ sound	ode MAT080P2108 waves at top				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	communication tower				MIL-STD-2402	1T080P007
UVM	communication tower				MIL-STD-2402	1T080P007
VML0	communication tower				MIL-STD-2402	1T080P007
VML1	communication tower				MIL-STD-2402	1T080P007
VML2	communication tower				MIL-STD-2402	1T080P007
BA010						BA010
Line	Full Chart			√ Simp	blified	Lin
	Symbol Number 0621 ID Co Description depth med blue very	ode MBA010L0621 thin solid line				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	coastline/shoreline - not mangrove or marsh	slt <> 6and <> 8			MIL-STD-2402	2A010L002
FFD	coastline/shoreline - accurate	acc=1			MIL-STD-2402	2A010L002
UVM	coastline/shoreline - not mangrove or marsh	slt<>6and<>8			MIL-STD-2402	2A010L002
VML0	coastline/shoreline				MIL-STD-2402	2A010L002
VML1	coastline/shoreline -not mangrove or marsh	slt<>6and<>8			MIL-STD-2402	2A010L002
VML2	coastline.shoreline - not mangrove or marsh	slt\$\rightarrow\$6and\$\rightarrow\$8			MIL-STD-2402	2A010L002
	Symbol Number 0632 ID Co Description dk gray very thin das	ode MBA010L0632 h line	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	coastline/shoreline - mangrove, marsh	slt=6or8			IHO S-52	LS(DASH,1,CSTLN
	Symbol Number 0743 ID Co Description dk gray small open re	ode MBA010L0743	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp		Orient	Source	Source ID
✓ DNC	coastline/shoreline - approximate; not mangrove or marsh	acc=2 AND slt<>6and<>	>8		IHO S-52	LC(LOWACC21)
	Symbol Number 1573 ID Co Description dk gray very thin soli	ode MBA010L1573 d line	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	coastline/shoreline - accurate; not mangrove or marsh	acc=1 AND slt⇔6and⇔	>8		IHO S-52	LS(SOLD,1,CSTLN)
XXXX CC					**** ~ **	

LS(SOLD,1,CSTLN)

IHO S-52

WVS

coastline/shoreline

		AFFEN	DIX A				
	Symbol Number 3042 ID C Description basic blue very thin s	Code MBA010L3042 short dash line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	coastline/shoreline - mangrove, marsh	slt=6or8			MIL-STD-2402	2A010L007	
FFD	coastline/shoreline - not accurate	acc<>1			MIL-STD-2402	2A010L007	
UVM	coastline/shoreline - mangrove, marsh	slt=6or8			MIL-STD-2402	2A010L007	
VML1	coastline/shoreline - mangrove, marsh	slt=6or8			MIL-STD-2402	2A010L007	
VML2	coastline/shoreline - mangrove, marsh	slt=6or8			MIL-STD-2402	2A010L007	
BA020						BA	4020
Point	Full Chart			√ Sim	plified		Point
	Symbol Number 0150 ID C Description yellow-green filled s	Code MBA020P0150 cm cir w/ gray outline	(SIMPLIFIED SYMBOLC	GY SAM	IE AS STANDAR	D SYMBOLOGY	Y)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	foreshore				ORIGINAL	0150	
Line	Symbol Number 0608 ID C Description depth gray very thin	Code MBA020L0608 solid line	(SIMPLIFIED SYMBOLC	Simple SAM		D SYMBOLOGY	Line Y)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	foreshore				IHO S-52	LS(SOLD,1,DI	EPCN)
Area	Full Chart			√ Sim	plified	, , ,	Area
	Symbol Number 0803 ID C Description yellow green solid fi		(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STANDAR	D SYMBOLOGY	Y)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	foreshore				IHO S-52	AC(DEPIT)	
DTOP	foreshore				IHO S-52	AC(DEPIT)	
UVM	foreshore				IHO S-52	AC(DEPIT)	
VML1	foreshore				IHO S-52	AC(DEPIT)	
VML2	foreshore				IHO S-52	AC(DEPIT)	
		Code MBA020A0949	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOG ^v	Y)
XX	Description depth gray diamond	patt fill					

IHO S-52

AP(DIAMOND1)

✓ DNC

foreshore - shallow display mode on

isdm=1

BA030				BA030
Point	Full Chart	√ Sim	nplified	Point
•	Symbol Number 0035 ID Code MBA030P0035 Description It brown sm filled cir w/ gray outline	(SIMPLIFIED SYMBOLOGY SAM	ЛЕ AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	oression Orient	Source	Source ID
✓ DNC	island		IHO S-52	SY(LNDARE01)
•	Symbol Number 2111 ID Code MBA030P2111 Description brown filled cir			
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
VML0	island		MIL-STD-2402	4B135P001
Area	Full Chart	√ Sim	nplified	Area
	Symbol Number 0822 ID Code MBA030A0822 Description It brown solid fill	(SIMPLIFIED SYMBOLOGY SAM	//E AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	oression Orient	Source	Source ID
✓ DNC	island		IHO S-52	AC(LANDA)
DTOP	island		IHO S-52	AC(LANDA)
FFD	island		IHO S-52	AC(LANDA)
UVM	island		IHO S-52	AC(LANDA)
VML1	island		IHO S-52	AC(LANDA)
VML2	island		IHO S-52	AC(LANDA)
	Symbol Number 4236 ID Code MBA030A4236 Description beige solid line			
Product	Feature Description Symbol Assignment Exp	oression Orient	Source	Source ID
VITD	island		MIL-STD-2402	4B135A001
BA040				BA040
Area	Full Chart	√ Sim	nplified	Area
	Symbol Number 0805 ID Code MBA040A0805 Description depth white fill	(SIMPLIFIED SYMBOLOGY SAM	ЛЕ AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	oression Orient	Source	Source ID
✓ DNC	water (except inland)		MIL-STD-2402	2A040A001
WVS	water (except inland)		ORIGINAL	0805

		AFFER	NDIA A				
	Symbol Number 0821 Description depth lt blue s	ID Code MBA040A0821 olid fill					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	water (except inland)				MIL-STD-2402	2A040A001	
FFD	water (except inland)				MIL-STD-2402	2A040A001	
UVM	water (except inland)				MIL-STD-2402	2A040A001	
VML0	water (except inland)				MIL-STD-2402	2A040A001	
VML1	water (except inland)				MIL-STD-2402	2A040A001	
VML2	water (except inland)				MIL-STD-2402	2A040A001	
BA050						BA0)50
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 4220 Description med-beige thin	ID Code MBA050A4220 n solid line					
* . * .	Symbol Number 4005 Description beige stiple do	ID Code MBA050A4005 ot patt fill					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	beach				ORIGINAL	4220 4005	
BA060						BA0)60
Area	Full Chart			√ Sim	plified	Α	Area
	Symbol Number 4220 Description med-beige thin	ID Code MBA060A4220 n solid line					
• • •	Symbol Number 4005 Description beige stiple do	ID Code MBA060A4005 ot patt fill					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	beach zone				ORIGINAL	4220 4005	
BB010						BB0)10
Point	Full Chart			√ Sim	plified	Р	Point
t	Symbol Number 0036 Description magenta anche	ID Code MBB010P0036 or	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)	
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	anchorage - not anchoring berth	mac<>12			IHO S-52	SY(ACHARE02)	
DTOP	anchorage				IHO S-52	SY(ACHARE02)	
DTOP VML2	anchorage anchorage				IHO S-52 IHO S-52	SY(ACHARE02) SY(ACHARE02)	

卒	Symbol Number 0037 Description magenta ancho	ID Code MBB010P0037 or w/ sm cir on shaft	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARI	O SYMBOLOGY)
Product Fea	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC and	chorage - anchoring berth	mac=12			IHO S-52	SY(ACHBRT07)
Line	Full Chart			√ Simp	olified	Line
y t d	Symbol Number 0711 Description magenta dash/o	ID Code MBB010L0711 chevron line w/anchor symbol	Symbol Number 3000 I Description It magenta thin das	D Code sh line	MBB010L3000	
Product Fea	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC and	chorage - not anchoring berth	mac⇔12			IHO S-52	LC(ACHARE51)
	Symbol Number 3000 Description lt magenta thin	ID Code MBB010L3000 dash line	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARE	O SYMBOLOGY)
Product Fea	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC and	chorage - anchoring berth	mac=12			IHO S-52	LS(DASH,2,CHMGF)
Area	Full Chart			√ Simp	olified	Area
\$	Symbol Number 0037 Description magenta ancho	ID Code MBB010A0037 or w/ sm cir on shaft	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARE	O SYMBOLOGY)
	Symbol Number 3000 Description It magenta thin	ID Code MBB010A3000 dash line	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDARE	O SYMBOLOGY)
Product Fea	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	chorage - anchoring berth	Symbol Assignment Expr mac=12	ression	Orient	Source IHO S-52	Source ID SY(ACHBRT07) + LS(DASH,2,CHMGF)
	-	mac=12 ID Code MBB010A0902	(SIMPLIFIED SYMBOLOG		IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF)
	Symbol Number 0902 Description It magenta and Symbol Number 0711	mac=12 ID Code MBB010A0902	(SIMPLIFIED SYMBOLOG	BY SAMI	IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF)
✓ DNC and	Symbol Number 0902 Description It magenta and Symbol Number 0711	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das	BY SAMI	IHO S-52 E AS STANDARE MBB010A3000	SY(ACHBRT07) + LS(DASH,2,CHMGF)
Product Fea	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/o	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das	BY SAMI D Code sh line	IHO S-52 E AS STANDARE MBB010A3000	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51)
Product Fea	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/o	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das	BY SAMI D Code sh line	IHO S-52 E AS STANDARE MBB010A3000 Source	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) +
Product Fea ✓ DNC and DTOP and	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/o	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das	BY SAMI D Code sh line	IHO S-52 E AS STANDARE MBB010A3000 Source IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51)
Product Fea ✓ DNC and DTOP and	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/o	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das	BY SAMI D Code sh line	IHO S-52 E AS STANDARE MBB010A3000 Source IHO S-52 IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51) + LC(ACHARE51) + LC(ACHARE51) SY(ACHARE51) +
Product Fea ✓ DNC and DTOP and VML2 and	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/o	mac=12 ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das ression	BY SAMI D Code sh line	IHO S-52 E AS STANDARE MBB010A3000 Source IHO S-52 IHO S-52 IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51)
Product Fea ✓ DNC and DTOP and VML2 and	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/orature Description chorage - not anchoring berth chorage	ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr mac<>12 ID Code MBB020P0032	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das ression	D Code sh line Orient	IHO S-52 E AS STANDARE MBB010A3000 Source IHO S-52 IHO S-52 IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51) Point
Product Fea ✓ DNC and DTOP and VML2 and BB020 Point	Symbol Number 0902 Description It magenta and Symbol Number 0711 Description magenta dash/orature Description chorage - not anchoring berth chorage Full Chart Symbol Number 0032	ID Code MBB010A0902 hor ID Code MBB010A0711 chevron line w/anchor symbol Symbol Assignment Expr mac<>12 ID Code MBB020P0032	(SIMPLIFIED SYMBOLOG Symbol Number 3000 I Description It magenta thin das ression (SIMPLIFIED SYMBOLOG	D Code sh line Orient	IHO S-52 E AS STANDARE MBB010A3000 Source IHO S-52 IHO S-52 IHO S-52 IHO S-52	SY(ACHBRT07) + LS(DASH,2,CHMGF) SYMBOLOGY) Source ID SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51) SY(ACHARE51) + LC(ACHARE51) Point

BB030				BB030
Point	Full Chart	√ Sim	plified	Point
•	Symbol Number 0051 ID Code MBB030P0051 Description black filled sm cir	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	bollard		IHO S-52	SY(PILPNT02)
BB040				BB040
Line	Full Chart	√ Sim	plified	Line
	Symbol Number 0623 ID Code MBB040L0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	breakwater/groyne - partly submerged at vrr=1		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	high water breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
UVM	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
VML0	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
VML1	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
VML2	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Code MBB040L0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	breakwater/groyne - submerged, covers vrr=4or8 and uncovers		IHO S-52	LS(DASH,2,CSTLN)
Area	Full Chart	√ Sim	plified	Area
	Symbol Number 0623 ID Code MBB040A0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	breakwater/groyne - partly submerged at vrr=1 high water		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
UVM	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
VML2	breakwater/groyne		IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Code MBB040A0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	breakwater/groyne - submerged, covers vrr=4or8 and uncovers		IHO S-52	LS(DASH,2,CSTLN)

BB050						BB050
Point	Full Chart			√ Sim	plified	Poir
\Diamond	Symbol Number 0039 ID C Description traffic magenta cir w	ode MBB050P0039 / 1 cone	(SIMPLIFIED SYMBOL	OGY SAN	1E AS STAND.	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	calling-in point - more than two-way traffic, 1st direction	df3<>0		df1	IHO S-52	SY(RDOCAL02)
✓ DNC	calling-in point - more than two-way traffic, 2nd direction	df3<>0		df2	IHO S-52	SY(RDOCAL02)
✓ DNC	calling-in point - more than two-way traffic, 3rd direction	df3<>0		df3	IHO S-52	SY(RDOCAL02)
✓ DNC	calling-in point - more than two-way traffic, 4th direction	df4<>0		df4	IHO S-52	SY(RDOCAL02)
✓ DNC	calling-in point - one way traffic	df1<>0 AND df2=0		df1	IHO S-52	SY(RDOCAL02)
\Diamond	Symbol Number 0040 ID C Description traffic magenta cir w	ode MBB050P0040 / 2 cones	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	calling-in point - two way traffic	df2<>0 AND df3=0		df1	IHO S-52	SY(RDOCAL03)
? ??	Symbol Number 0041 ID C Description magenta cir w/ 2 con	ode MBB050P0041 es and 2 ?	(SIMPLIFIED SYMBOLO	OGY SAN	1E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	calling-in point - direction of traffic unknown	df1=0			IHO S-52	SY(RCLDEF01)
BB080						BB080
Point	Full Chart			√ Sim	plified	Poin
	Symbol Number 0038 ID C Description It brown filled square	ode MBB080P0038 e w/ black outline	(SIMPLIFIED SYMBOLO	OGY SAM	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	dolphin				IHO S-52	SY(MORFAC03)
BB090						BB090
Area	Full Chart			√ Sim	plified	Area
	Symbol Number 1573 ID C Description dk gray very thin sol	ode MBB090A1573 id line	(SIMPLIFIED SYMBOLO	OGY SAN	1E AS STAND	ARD SYMBOLOGY)
	Symbol Number 0822 ID C Description lt brown solid fill	ode MBB090A0822	(SIMPLIFIED SYMBOLO	OGY SAM	1E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	drydock				IHO S-52	LS(SOLD,1,CSTLN) + AC(LANDA)

		AFFEN				
	Symbol Number 3112 Description black thin soli	ID Code MBB090A3112 id line				
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	ydock				MIL-STD-2402	2B090A003
	ydock				MIL-STD-2402	2B090A003
VML2 dry	ydock				MIL-STD-2402	2B090A003
BB100						BB100
Line	Full Chart			√ Simp	olified	Lin
- لـ لـ لـ لـ لـ	Symbol Number 0712 Description gray L comple	ID Code MBB100L0712 ex line	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product Fe	ature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC fis	h stakes				IHO S-52	LC(FSHFAC02)
BB105						BB10
Point	Full Chart			√ Simp	olified	Poir
	Symbol Number 0042 Description magenta fish	ID Code MBB105P0042 w/ arcs above and below	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product Fe	ature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC fis	hing harbor				IHO S-52	SY(HRBFAC09)
BB110						BB110
Area	Full Chart			✓ Simp	olified	Area
	Symbol Number 0047 Description gray rectangle	ID Code MBB110A0047 e w/ angle line on top				
A A A	Symbol Number 0716 Description gray dash/che	ID Code MBB110A0716 vron line	Symbol Number 0656 Description gray very thin da		MBB110A0656	
	Symbol Number Description	ID Code	Symbol Number 0903 Description gray fish trap pat		MBB110A0903	A A A
Product Fe	ature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC fis	h traps/fish weirs				IHO S-52	SY(FSHFAC02) + LC(NAVARE51)

BB115					BB115
Area	Full Chart		✓	Simplified	Area
	Symbol Number 0656 ID Conception gray very thin dash li	ode MBB115A0656 ne	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
✓ DNC	gridiron			IHO S-52	LS(DASH,1,CHGRD)
BB140					BB140
Line	Full Chart		✓	Simplified	Line
	Symbol Number 0623 ID Conception dk gray thin solid line	ode MBB140L0623	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
✓ DNC	jetty - partly submerged at high water	vrr=1		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	jetty			IHO S-52	LS(SOLD,2,CSTLN)
UVM	jetty			IHO S-52	LS(SOLD,2,CSTLN)
VML1	jetty - unknown, partly submerged at high water	vrr=0or1		IHO S-52	LS(SOLD,2,CSTLN)
VML2	jetty			IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Co	ode MBB140L0626	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
✓ DNC	jetty - submerged, covers and uncovers	vrr=4or8		IHO S-52	LS(DASH,2,CSTLN)
VML1	jetty - covers and uncovers	vrr=8		IHO S-52	LS(DASH,2,CSTLN)
Area	Full Chart		✓	Simplified	Area
	Symbol Number 0623 ID Conception dk gray thin solid line	ode MBB140A0623	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
✓ DNC	jetty - partly submerged at high water	vrr=1		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	jetty			IHO S-52	LS(SOLD,2,CSTLN)
UVM	jetty			IHO S-52	LS(SOLD,2,CSTLN)
VML2	jetty			IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Conception dk gray thin dash line	ode MBB140A0626	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Ori	ent Source	Source ID
✓ DNC	jetty - submerged, covers and uncovers	vrr=4or8		IHO S-52	LS(DASH,2,CSTLN)
	<u> </u>				

BB150						BB150
Point	Full Chart			√ Simp	plified	Point
	Symbol Number 0043 II Description magenta yacht ins	D Code MBB150P0043 side lg cir	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI) SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	landing place				IHO S-52	SY(SMCFAC02)
Area	Full Chart			√ Simp	blified	Area
	Symbol Number 0043 II Description magenta yacht ins	D Code MBB150A0043 side lg cir	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI) SYMBOLOGY)
	Symbol Number 0604 II Description feature brown ver	D Code MBB150A0604 ry thin solid line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI) SYMBOLOGY)
	Symbol Number 0804 II Description brown solid fill	D Code MBB150A0804	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	landing place				IHO S-52	SY(SMCFAC02) +
BB160						LS(SOLD,1,LANDF) + AC(CHBRN)
BB160 Point	Full Chart			√ Simp	blified	
		D Code MBB160P0038 uare w/ black outline	(SIMPLIFIED SYMBOLOG			+ AC(CHBRN) BB160 Point
Point	Symbol Number 0038 II		,	GY SAM		+ AC(CHBRN) BB160 Point
Point	Symbol Number 0038 II Description lt brown filled squ	uare w/ black outline	,	GY SAM	E AS STANDARI	+ AC(CHBRN) BB160 Point SYMBOLOGY)
Point Product ✓ DNC	Symbol Number 0038 II Description lt brown filled squ Feature Description	uare w/ black outline	,	GY SAM	E AS STANDARI	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03)
Product	Symbol Number 0038 II Description lt brown filled squ Feature Description	uare w/ black outline	,	GY SAM	E AS STANDARI	+ AC(CHBRN) BB160 Point SYMBOLOGY) Source ID
Point Product ✓ DNC	Symbol Number 0038 II Description lt brown filled squ Feature Description	uare w/ black outline	,	GY SAM	E AS STANDARE Source IHO S-52	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03)
Product ✓ DNC BB170	Symbol Number 0038 II Description It brown filled squ Feature Description mooring ring Full Chart	Symbol Assignment Expr	ression	Orient ✓ Simp	Source IHO S-52 MBB170P0311	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03) BB170
Product ✓ DNC BB170	Symbol Number 0038 II Description It brown filled squ Feature Description mooring ring Full Chart Symbol Number 0044 II	Symbol Assignment Expr	Symbol Number 0311 Description black mooring/ins	Orient ✓ Simp ID Code stallation	Source IHO S-52 MBB170P0311	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03) BB170
Product ✓ DNC BB170 Point	Symbol Number 0038 II Description It brown filled squ Feature Description mooring ring Full Chart Symbol Number 0044 II Description black installation	Symbol Assignment Expr D Code MBB170P0044 buoy	Symbol Number 0311 Description black mooring/ins	Orient ✓ Simp ID Code stallation	Source IHO S-52 bliffied MBB170P0311 buoy	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03) BB170 Point
Product ✓ DNC BB170 Point Product	Symbol Number 0038 II Description It brown filled squ Feature Description mooring ring Full Chart Symbol Number 0044 II Description black installation Feature Description offshore loading facility	Symbol Assignment Expr D Code MBB170P0044 buoy	Symbol Number 0311 Description black mooring/ins	Orient ✓ Simp ID Code stallation Orient	Source IHO S-52 MBB170P0311 buoy Source IHO S-52	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03) BB170 Point Source ID SY(BOYINB01)
Product ✓ DNC BB170 Point Product	Symbol Number 0038 II Description It brown filled squ Feature Description mooring ring Full Chart Symbol Number 0044 II Description black installation Feature Description offshore loading facility Symbol Number 0500 II	D Code MBB170P0044 buoy Symbol Assignment Expt	Symbol Number 0311 Description black mooring/ins ression (SIMPLIFIED SYMBOLOG	Orient Simp ID Code stallation Orient GY SAM	Source IHO S-52 MBB170P0311 buoy Source IHO S-52	BB160 Point SYMBOLOGY) Source ID SY(MORFAC03) BB170 Point Source ID SY(BOYINB01)

	Full Chart	✓ Simplified	Line
	Symbol Number 0625 ID Code MBB170L0625 Description dk gray thick solid line	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	xpression Orient Source	Source ID
✓ DNC	offshore loading facility	IHO S-52	LS(SOLD,4,CSTLN)
Area	Full Chart	✓ Simplified	Area
	Symbol Number 0625 ID Code MBB170A0625 Description dk gray thick solid line	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI	RD SYMBOLOGY)
	Symbol Number 0804 ID Code MBB170A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	xpression Orient Source	Source ID
✓ DNC	offshore loading facility	IHO S-52	LS(SOLD,4,CSTLN) + AC(CHBRN)
Point		_	
Point		_	
	Full Chart Symbol Number 0045 ID Code MRR180P0045	✓ Simplified	Point
	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net	✓ Simplified (SIMPLIFIED SYMBOLOGY SAME AS STANDAI	
Product	Symbol Number 0045 ID Code MBB180P0045	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI	
Product ✓ DNC	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI	RD SYMBOLOGY)
✓ DNC	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net Feature Description Symbol Assignment Ex	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI opression Orient Source	RD SYMBOLOGY) Source ID
✓ DNC	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net Feature Description Symbol Assignment Exopyster bed/mussel bed Full Chart	(SIMPLIFIED SYMBOLOGY SAME AS STANDAL Repression Orient Source IHO S-52 ✓ Simplified	Source ID SY(MARCUL02) Area
✓ DNC	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net Feature Description Symbol Assignment Exoyster bed/mussel bed	(SIMPLIFIED SYMBOLOGY SAME AS STANDAI Appression Orient Source IHO S-52	Source ID SY(MARCUL02) Area
	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net Feature Description Symbol Assignment Exopyster bed/mussel bed Full Chart Symbol Number 0716 ID Code MBB180A0716	(SIMPLIFIED SYMBOLOGY SAME AS STANDAL Surce IHO S-52 ✓ Simplified Symbol Number 0656 ID Code MBB180A065	Source ID SY(MARCUL02) Area
✓ DNC Area	Symbol Number 0045 ID Code MBB180P0045 Description gray fish inside net Feature Description Symbol Assignment Exopyster bed/mussel bed Full Chart Symbol Number 0716 ID Code MBB180A0716 Description gray dash/chevron line Symbol Number 0904 ID Code MBB180A0904	(SIMPLIFIED SYMBOLOGY SAME AS STANDAL Spression Orient Source IHO S-52 ✓ Simplified Symbol Number 0656 ID Code MBB180A065 Description gray very thin dash line (SIMPLIFIED SYMBOLOGY SAME AS STANDAL	Source ID SY(MARCUL02) Area

BB190				BB190
Line	Full Chart	✓	Simplified	Line
	Symbol Number 0625 ID Code MBB190L0625 Description dk gray thick solid line	(SIMPLIFIED SYMBOLOGY	SAME AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression On	rient Source	Source ID
✓ DNC	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
DTOP	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
FFD	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
UVM	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
VML0	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
VML1	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
VML2	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
Area	Full Chart	✓	Simplified	Area
	Symbol Number 0625 ID Code MBB190A0625 Description dk gray thick solid line	(SIMPLIFIED SYMBOLOGY	SAME AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Or	rient Source	Source ID
✓ DNC	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
DTOP	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
FFD	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
UVM	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
VML1	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
VML2	pier/wharf/quay		IHO S-52	LS(SOLD,4,CSTLN)
BB220				BB220
Line	Full Chart	✓	Simplified	Line
	Symbol Number 0623 ID Code MBB220L0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY	SAME AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Or	rient Source	Source ID
✓ DNC	ramp (maritime) - partly submerged at vrr=1 high water		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	ramp (maritime)		IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Code MBB220L0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY	SAME AS STANDA	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression On	rient Source	Source ID
✓ DNC	ramp (maritime) - submerged, covers vrr=4or8 and uncovers		IHO S-52	LS(DASH,2,CSTLN)

Area	Full Chart	√ Sim	plified	Area
	Symbol Number 0623 ID Code MBB220A0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	ramp (maritime) - partly submerged at vrr=1 high water		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	ramp (maritime)		IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Code MBB220A0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	ramp (maritime) - submerged, covers vrr=4or8 and uncovers		IHO S-52	LS(DASH,2,CSTLN)
BB230				BB230
Line	Full Chart	√ Sim	plified	Line
	Symbol Number 0623 ID Code MBB230L0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	seawall		IHO S-52	LS(SOLD,2,CSTLN)
DTOP	seawall		IHO S-52	LS(SOLD,2,CSTLN)
UVM	seawall		IHO S-52	LS(SOLD,2,CSTLN)
VML0	seawall		IHO S-52	LS(SOLD,2,CSTLN)
VML1	seawall		IHO S-52	LS(SOLD,2,CSTLN)
VML2	seawall		IHO S-52	LS(SOLD,2,CSTLN)
BB240				BB240
Line	Full Chart	√ Sim	plified	Line
	Symbol Number 0623 ID Code MBB240L0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp.	ression Orient	Source	Source ID
✓ DNC	slipway/patent slip - partly submerged at vrr=1 high water		IHO S-52	LS(SOLD,2,CSTLN)
UVM	slipway/patent slip		IHO S-52	LS(SOLD,2,CSTLN)
VML2	slipway/patent slip		IHO S-52	LS(SOLD,2,CSTLN)
	Symbol Number 0626 ID Code MBB240L0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	slipway/patent slip - submerged, covers vrr=4or8		IHO S-52	LS(DASH,2,CSTLN)

Area	Full Chart		•	Simp	lified	Area
	Symbol Number 0623 Description dk gray thin	ID Code MBB240A0623 solid line				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
VML2	slipway/patent slip				IHO S-52	LS(SOLD,2,CSTLN)
BC010						BC010
Point	Full Chart		_	Simp	lified	Point
•	Symbol Number 0009 Description feature brow	ID Code MBC010P0009 on dot inside cir	(SIMPLIFIED SYMBOLOGY	Y SAME	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
✓ DNC	beacon - radar station	nst=45			IHO S-52	SY(POSGEN01)
Î	Symbol Number 0100 Description black beacon	ID Code MBC010P0100 n/buoy base	Symbol Number 0101 ID Description yellow rectangle w/		MBC010P0101	•
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
✓ DNC	beacon - base				IHO S-52	SY(BCNGEN01)
	Symbol Number 0114 Description black topman	ID Code MBC010P0114 rk open parallelogram				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DNC	beacon - rhombus/diamond	tmc=19or31			IHO S-52	SY(TOPMAR14)
A	Symbol Number 0122 Description black topman	ID Code MBC010P0122 rk one cone up				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DNC	beacon - one cone up	tmc=16or21			IHO S-52	SY(TOPMAR22)
▼	Symbol Number 0124 Description black topman	ID Code MBC010P0124 rk one cone down				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DNC	beacon - one cone down	tmc=22			IHO S-52	SY(TOPMAR24)
*	Symbol Number 0125 Description black topman	ID Code MBC010P0125 rk two cones up				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DNC	beacon - two cones up	tmc=3			IHO S-52	SY(TOPMAR25)
*	Symbol Number 0126 Description black topman	ID Code MBC010P0126 rk two cones down				
	E . D	G 1 1 4	magaian () mi amt	Source	Source ID
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Bource	Source 1D

♦	Symbol Number 0127 Description black topm	ID Code MBC010P0127 ark two cones point out			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - two cones out	tmc=1		IHO S-52	SY(TOPMAR27)
X	Symbol Number 0128 Description black topms	ID Code MBC010P0128 ark two cones point in			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - two cones in	tmc=9		IHO S-52	SY(TOPMAR28)
	Symbol Number 0130 Description black topms	ID Code MBC010P0130 ark one ball			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - one ball	tmc=15or27or28		IHO S-52	SY(TOPMAR30)
•	Symbol Number 0132 Description black topms	ID Code MBC010P0132 ark two balls			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - two balls	tmc=2		IHO S-52	SY(TOPMAR32)
	Symbol Number 0133 Description black topms	ID Code MBC010P0133 ark can			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - can	tmc=25or26or29		IHO S-52	SY(TOPMAR33)
×	Symbol Number 0185 Description black topms	ID Code MBC010P0185 ark special X			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - special (x)	tmc=6		IHO S-52	SY(TOPMAR85)
+	Symbol Number 0186 Description black topms	ID Code MBC010P0186 ark cross			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	beacon - upright cross	tmc=23or30		IHO S-52	SY(TOPMAR86)
//\	Symbol Number 0187 Description black topms	ID Code MBC010P0187 ark perch			
/ \ Product			Orient	Source	Source ID
	Description black topms	ark perch	Orient	Source IHO S-52	Source ID SY(TOPMAR87)
Product	Description black topms Feature Description	Symbol Assignment Expression tmc=18 ID Code MBC010P0188	Orient		
Product DNC	Feature Description beacon - perch Symbol Number 0188	Symbol Assignment Expression tmc=18 ID Code MBC010P0188			

ı	Symbol Number 0199 Description black defaul	ID Code MBC010P0199			
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
DNC	beacon - default topmark	tmc=0or32		IHO S-52	SY(TMARDEF1)
<u> </u>	Symbol Number 0401 Description lt magenta a	ID Code MBC010P0401 rcs origin offset - maximum	(SIMPLIFIED SYMBOLOGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	beacon - sound signal	sst=1or2or3or4or6or9or1	4or15	IHO S-52	SY(FOGSIG01) for water
Y/	Symbol Number 0510 Description magenta arc	ID Code MBC010P0510 w/ 5 ticks pointing upward	(SIMPLIFIED SYMBOLOGY SAM	1E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	beacon - radar reflector present	t ref=1		IHO S-52	SY(RADRFL03)
	Symbol Number 0511 Description lg magenta of	ID Code MBC010P0511	(SIMPLIFIED SYMBOLOGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	beacon - radio navigation syste	m nst=1or4or5or17or41or5	or53	IHO S-52	SY(RDOSTA02)
0	Symbol Number 0512 Description lg magenta	ID Code MBC010P0512 dashed cir	(SIMPLIFIED SYMBOLOGY SAM	1E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
√ DNC	beacon - radar navigation syste	m nst=10or54		IHO S-52	SY(RTPBCN02)
BC020					BC02
Point	Full Chart				
			√ Sim	plified	Poi
•	Symbol Number 0009 Description feature brow	ID Code MBC020P0009 vn dot inside cir	✓ Sim (SIMPLIFIED SYMBOLOGY SAM		Poi
Product			(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	
	Description feature brow	vn dot inside cir	(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	ARD SYMBOLOGY)
Product	Description feature brow	Symbol Assignment Expr nst=45 ID Code MBC020P0051	(SIMPLIFIED SYMBOLOGY SAM	Source IHO S-52	Source ID SY(POSGEN01)
Product	Description feature brow Feature Description buoy - radar station Symbol Number 0051	Symbol Assignment Expr nst=45 ID Code MBC020P0051	(SIMPLIFIED SYMBOLOGY SAME	Source IHO S-52	Source ID SY(POSGEN01)
Product ✓ DNC Product	Description feature brow Feature Description buoy - radar station Symbol Number 0051 Description black filled	Symbol Assignment Expr nst=45 ID Code MBC020P0051 sm cir	(SIMPLIFIED SYMBOLOGY SAME	Source IHO S-52	Source ID SY(POSGEN01) ARD SYMBOLOGY)
Product ✓ DNC	Description feature brow Feature Description buoy - radar station Symbol Number 0051 Description black filled Feature Description	Symbol Assignment Expression in Symbol Assignment Expression i	(SIMPLIFIED SYMBOLOGY SAME	Source IHO S-52 ME AS STAND Source Source	Source ID SY(POSGEN01) ARD SYMBOLOGY) Source ID
Product ✓ DNC Product	Peature Description buoy - radar station Symbol Number 0051 Description black filled Feature Description buoy - articulated light (base) Symbol Number 0202	Symbol Assignment Expression in Symbol Assignment Expression i	(SIMPLIFIED SYMBOLOGY SAME (SIMPLIFIED SYMBOLOGY	Source IHO S-52 ME AS STAND Source IHO S-52	Source ID SY(POSGEN01) ARD SYMBOLOGY) Source ID

	Symbol Number 0204 Description black buoy	ID Code MBC020P0204 topmark one cone down			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - one cone down	tmc=22		IHO S-52	SY(TOPMAR04)
	Symbol Number 0205 Description black buoy	ID Code MBC020P0205 topmark two cones up			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - two cones up	tmc=3		IHO S-52	SY(TOPMAR05)
	Symbol Number 0206 Description black buoy	ID Code MBC020P0206 topmark two cones down			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - two cones down	tmc=8		IHO S-52	SY(TOPMAR06)
	Symbol Number 0207 Description black buoy	ID Code MBC020P0207 topmark two cones point out			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - two cones out	tmc=1		IHO S-52	SY(TOPMAR07)
	Symbol Number 0208 Description black buoy	ID Code MBC020P0208 topmark two cones point in			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - two cones in	tmc=9		IHO S-52	SY(TOPMAR08)
	Symbol Number 0210 Description black buoy	ID Code MBC020P0210 topmark one ball			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - one ball	tmc=15or27or28		IHO S-52	SY(TOPMAR10)
)	Symbol Number 0212 Description black buoy	ID Code MBC020P0212 topmark two balls			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - two balls	tmc=2		IHO S-52	SY(TOPMAR12)
	Symbol Number 0213 Description black buoy	ID Code MBC020P0213 topmark can			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	buoy - can	tmc=25or26or29		IHO S-52	SY(TOPMAR13)
7	Symbol Number 0214 Description black buoy	ID Code MBC020P0214 topmark open parallelogram			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
Toduct					

/	Symbol Number 0217 Description black buoy to	ID Code MBC020P0217				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - upright cross	tmc=23or30			IHO S-52	SY(TOPMAR17)
×	Symbol Number 0265 Description black buoy	ID Code MBC020P0265 topmark special X				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - special (x)	tmc=6			IHO S-52	SY(TOPMAR65)
	Symbol Number 0299 Description black buoy	ID Code MBC020P0299 default topmark				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - default topmark	tmc=0or17or18or32			IHO S-52	SY(TMARDEF2)
2?	Symbol Number 0300 Description black defaul	ID Code MBC020P0300 t buoy beside magenta ?	Symbol Number 0313 Description yellow circle w/ o		MBC020P0313	·
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - default; type unknown	btc=0 AND ssc=0or85or9	999		IHO S-52	SY(BOYGEN03)
\mathcal{D}	Symbol Number 0301 Description black barrel	ID Code MBC020P0301 buoy	Symbol Number 0313 Description yellow circle w/ o		MBC020P0313	$\overline{}$
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - barrel; type unknown	btc=0 AND ssc=1			IHO S-52	SY(BOYBAR01)
ا	Symbol Number 0302 Description black can be	ID Code MBC020P0302	Symbol Number 0313 Description yellow circle w/ o		MBC020P0313	$\overline{}$
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - can; type unknown	btc=0 AND ssc=7			IHO S-52	SY(BOYCAN01)
م	Symbol Number 0303 Description black cone b	ID Code MBC020P0303	Symbol Number 0313 Description yellow circle w/ o		MBC020P0313 ack outline	$\overline{}$
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - conical; type unknown	btc=0 AND ssc=6			IHO S-52	SY(BOYCON01)
۵	Symbol Number 0304 Description black moori	ID Code MBC020P0304 ng barrel buoy	Symbol Number 0311 Description black mooring/ins		MBC020P0311 buoy	
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DNC	buoy - mooring; barrel	btc=7 AND ssc=1			IHO S-52	SY(BOYMOR01)
٦	Symbol Number 0305 Description black moori	ID Code MBC020P0305 ng can buoy	Symbol Number 0311 Description black mooring/ins		MBC020P0311 buoy	-
	Easture Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
Product	Feature Description	Symbol Assignment Expi	10331011	Official	Source	Source ID

\$	Symbol Number 0306 Description black pillar be	ID Code MBC020P0306 uoy	Symbol Number 0313 Description yellow circle w/		MBC020P0313 ack outline	$\overline{\bullet}$
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - pillar; type unknown	btc=0 AND ssc=10			IHO S-52	SY(BOYPIL01)
Q	Symbol Number 0307 Description black spherical	ID Code MBC020P0307	Symbol Number 0313 Description yellow circle w/		MBC020P0313	$\overline{\cdot}$
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - sphere; type unknown	btc=0 AND ssc=17			IHO S-52	SY(BOYSPH01)
Į	Symbol Number 0308 Description black spar bu	ID Code MBC020P0308	Symbol Number 0313 Description yellow circle w/		MBC020P0313	·
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - spar; type unknown	btc=0 AND ssc=16			IHO S-52	SY(BOYSPR01)
4	Symbol Number 0309 Description black superbu	ID Code MBC020P0309	Symbol Number 0312 Description black superbuoy		MBC020P0312 ed	
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - ODAS	btc=10			IHO S-52	SY(BOYSUP01)
✓ DNC	buoy - superbuoy; type unknown	btc=0 AND ssc=73			IHO S-52	SY(BOYSUP01)
*	Symbol Number 0310 Description black lanby	ID Code MBC020P0310	Symbol Number 0312 Description black superbuoy	ID Code		
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - LANBY	btc=4			IHO S-52	SY(BOYSUP03)
<u>.</u>	Symbol Number 0311 Description black mooring	ID Code MBC020P0311 g/installation buoy	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - mooring; not barrel, not c	an btc=7 AND ssc<>1and<>	>7		IHO S-52	SY(BOYMOR11)
<u>u</u>	Symbol Number 0401 Description It magenta are	ID Code MBC020P0401 es origin offset - maximum	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - sound signal	sst=1or2or3or4or6or9or1	4or15		IHO S-52	SY(FOGSIG01) for water
N	Symbol Number 0510 Description magenta are v	ID Code MBC020P0510 v/ 5 ticks pointing upward	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	O SYMBOLOGY)
Product			`		E AS STANDARI	Source ID

	Symbol Number 0511 Description lg magenta c	ID Code MBC020P0511	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	buoy - non-pillar; radio navigat system	ion nst=1or4or5or17or41or5	lor53 AND ssc≎10		IHO S-52	SY(RDOSTA02)
0	Symbol Number 0512 Description lg magenta d	ID Code MBC020P0512 lashed cir	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	buoy - non-pillar; radar navigat system	ion nst=10or54 AND ssc<>1	0		IHO S-52	SY(RTPBCN02)
₩	Symbol Number 0513 Description black lt float	ID Code MBC020P0513	Symbol Number 0515 Description black lt float, sim	ID Code	MBC020P0515	
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - light float	btc=6			IHO S-52	SY(LITFLT01)
	Symbol Number 4325 Description lg magenta c	ID Code MBC020P4325	Symbol Number 0511 Description lg magenta cir	ID Code	MBC020P0511	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	buoy - pillar; radio navigation s	ystem nst=1or4or5or17or41or5	1or53 AND ssc=10		IHO S-52	SY(RDOSTA02)
0	Symbol Number 4326 Description lg magenta d	ID Code MBC020P4326 lashed cir	Symbol Number 0512 Description lg magenta dashe		MBC020P0512	0
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	buoy - pillar; radar navigation s	ystem nst=10or54 AND ssc=10			IHO S-52	SY(RTPBCN02)
BC040						BC040
Point	Full Chart			√ Simp	olified	Poin
•	Symbol Number 0009 Description feature brow	ID Code MBC040P0009 n dot inside cir	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	light - radar station	nst=45			IHO S-52	SY(POSGEN01)
					E AC STANDADI	
•	Symbol Number 0051 Description black filled s	ID Code MBC040P0051 sm cir	(SIMPLIFIED SYMBOLO	J I SAIVII	E AS STANDARI	O SYMBOLOGY)
Product			`	Orient	Source	Source ID
Product ✓ DNC	Description black filled s	sm cir	`			,
	Description black filled s Feature Description	Symbol Assignment Expr ID Code MBC040P0114	`		Source	Source ID
✓ DNC	Description black filled s Feature Description light - base symbol Symbol Number 0114	Symbol Assignment Expr ID Code MBC040P0114	ression		Source IHO S-52	Source ID

	Symbol Number 0122 Description black topm	ID Code MBC040P0122 nark one cone up			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - one cone up	tmc=16or21		IHO S-52	SY(TOPMAR22)
	Symbol Number 0124 Description black topm	ID Code MBC040P0124 nark one cone down			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - one cone down	tmc=22		IHO S-52	SY(TOPMAR24)
`	Symbol Number 0125 Description black topm	ID Code MBC040P0125 nark two cones up			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - two cones up	tmc=3		IHO S-52	SY(TOPMAR25)
7	Symbol Number 0126 Description black topm	ID Code MBC040P0126 mark two cones down			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - two cones down	tmc=8		IHO S-52	SY(TOPMAR26)
}	Symbol Number 0127 Description black topm	-			
Product	Feature Description	Symbol Assignment Expression	Orient		Source ID
DNC	light - two cones out	tmc=1		IHO S-52	SY(TOPMAR27)
	Symbol Number 0128 Description black topm	ID Code MBC040P0128 nark two cones point in			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - two cones in	tmc=9		IHO S-52	SY(TOPMAR28)
	Symbol Number 0130 Description black topm				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - one ball	tmc=15or27or28		IHO S-52	SY(TOPMAR30)
	Symbol Number 0132 Description black topm	ID Code MBC040P0132 mark two balls			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	light - two balls	tmc=2		IHO S-52	SY(TOPMAR32)
]	Symbol Number 0133 Description black topm	ID Code MBC040P0133 nark can			
	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
Product	i cuture Description	Symbol Hoolgiment Empression		Source	Douree 12

×	Symbol Number 0185 Description black topmark	ID Code MBC040P0185 special X			
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
DNC	light - special (x)	tmc=6		IHO S-52	SY(TOPMAR85)
+	Symbol Number 0186 Description black topmark	ID Code MBC040P0186 cross			
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
DNC	light - upright cross	tmc=23or30		IHO S-52	SY(TOPMAR86)
//\	Symbol Number 0187 Description black topmark	ID Code MBC040P0187 perch			
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
DNC	light - perch	tmc=18		IHO S-52	SY(TOPMAR87)
\ /	Symbol Number 0188 Description black topmark	ID Code MBC040P0188 broom up			
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
DNC	light - broom point up	tmc=17		IHO S-52	SY(TOPMAR88)
	Symbol Number 0199 Description black default t	ID Code MBC040P0199 opmark upright			
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
DNC	light - default topmark	tmc=0or32		IHO S-52	SY(TMARDEF1)
6	Symbol Number 0401 Description lt magenta arc	ID Code MBC040P0401 s origin offset - maximum	(SIMPLIFIED SYMBOLOGY SA	ME AS STANE	OARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
✓ DNC	light - sound signal	sst=1or2or3or4or6or9or14	or15	IHO S-52	SY(FOGSIG01) for water
Y	Symbol Number 0510 Description magenta arc w	ID Code MBC040P0510 / 5 ticks pointing upward	(SIMPLIFIED SYMBOLOGY SA	ME AS STANE	OARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
✓ DNC	light - radar reflector present	ref=1		IHO S-52	SY(RADRFL03)
	Symbol Number 0511 Description lg magenta cir	ID Code MBC040P0511	(SIMPLIFIED SYMBOLOGY SA	ME AS STANE	OARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Orien	t Source	Source ID
✓ DNC	light - radio navigation system	nst=1or4or5or17or41or510	or53	IHO S-52	SY(RDOSTA02)
0	Symbol Number 0512 Description lg magenta da	ID Code MBC040P0512 shed cir	(SIMPLIFIED SYMBOLOGY SA	ME AS STANE	OARD SYMBOLOGY)
Product			,		OARD SYMBOLOGY) Source ID

Line	Full Chart			√ Simp	lified		Line
M	Symbol Number 0713 Description magenta com	ID Code MBC040L0713 pressed zig-zag line	(SIMPLIFIED SYMBOLOG	GY SAMI	E AS STANDARI	D SYMBOLOG	Y)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	light				MIL-STD-2402	2C050L001	
BC050						В	C050
Point	Full Chart			√ Simp	olified		Point
Ä	Symbol Number 2044 Description black lighthou	ID Code MBC050P2044 use symbol					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	lighthouse				ORIGINAL	2044	
VML0	lighthouse				ORIGINAL	2044	
BC055						В	C055
Point	Full Chart			√ Simp	olified		Point
\$	Symbol Number 0151 Description magenta box	ID Code MBC055P0151 above inverted T with open cir	Symbol Number 0152 Description magenta box w/ c		MBC055P0152 ne below	•	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	marker				IHO S-52	SY(DAYSQR	21)
BC060						В	C060
BC060 Area	Full Chart			√ Simp	olified	В	C060 Area
	Full Chart Symbol Number 3116 Description black very thi	ID Code MBC060A3116 n dash line	(SIMPLIFIED SYMBOLOG				Area
	Symbol Number 3116				E AS STANDARI		Area
Area	Symbol Number 3116 Description black very thi	n dash line		GY SAMI	E AS STANDARI	D SYMBOLOG	Area
Area	Symbol Number 3116 Description black very thi Feature Description	n dash line		GY SAMI	E AS STANDARI	Source ID LS(DASH,1,C	Area
Area Product ✓ DNC	Symbol Number 3116 Description black very thi Feature Description	n dash line		GY SAMI	Source IHO S-52	Source ID LS(DASH,1,C	Area Y) HBLK)
Product ✓ DNC BC070	Symbol Number 3116 Description black very thi Feature Description light sector	Symbol Assignment Exp ID Code MBC070P0009		Orient Simp	Source IHO S-52	Source ID LS(DASH,1,C	Area Y) HBLK) C070 Point
Product ✓ DNC BC070 Point	Symbol Number 3116 Description black very thi Feature Description light sector Full Chart Symbol Number 0009	Symbol Assignment Exp ID Code MBC070P0009	ression (SIMPLIFIED SYMBOLOG	Orient Simp	Source IHO S-52	Source ID LS(DASH,1,C	Area Y) HBLK) C070 Point

<u>&</u>	Symbol Number 0401 ID Code MBC070P0401 Description It magenta arcs origin offset - maximum	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
✓ DNC	light vessel/lightship - sound signal sst=1or2or3or4or6	•		IHO S-52	SY(FOGSIG01) for water
Y/	Symbol Number 0510 ID Code MBC070P0510 Description magenta arc w/ 5 ticks pointing upward	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description Symbol Assignment	nt Expression	Orient	Source	Source ID
✓ DNC	light vessel/lightship - radar reflector ref=1 present			IHO S-52	SY(RADRFL03)
	Symbol Number 0511 ID Code MBC070P0511 Description lg magenta cir	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description Symbol Assignment	nt Expression	Orient	Source	Source ID
✓ DNC	light vessel/lightship - radio navigation nst=1or4or5or17or system	41or51or53		IHO S-52	SY(RDOSTA02)
0	Symbol Number 0512 ID Code MBC070P0512 Description lg magenta dashed cir	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description Symbol Assignment	nt Expression	Orient	Source	Source ID
✓ DNC	light vessel/lightship - radar navigation nst=10or54 system			IHO S-52	SY(RTPBCN02)
4	Symbol Number 0514 ID Code MBC070P0514 Description black lt vessel	Symbol Number 0516 Description black lt vessel, si	ID Code	MBC070P0516	_
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
✓ DNC	light vessel/lightship	•		IHO S-52	SY(LITVES01)
BC080					BC080
Point	Full Chart		√ Simp	plified	Poir
•	Symbol Number 0051 ID Code MBC080P0051 Description black filled sm cir	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description Symbol Assignmen	nt Expression	Orient	Source	Source ID
✓ DNC	perches/stakes			IHO S-52	SY(PILPNT02)
Area	Full Chart		√ Simp	plified	Are
	Symbol Number 0680 ID Code MBC080A0680 Description black thin dotted line	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
	Symbol Number 0810 ID Code MBC080A0810 Description depth med blue solid fill	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description Symbol Assignment	nt Expression	Orient	Source	Source ID
✓ DNC	perches/stakes			IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)

BC100				BC100
Line	Full Chart	✓	Simplified	Line
	Symbol Number 0656 ID Code MBC100L0656 Description gray very thin dash line	(SIMPLIFIED SYMBOLOGY	SAME AS STANI	DARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
✓ DNC	leading line		IHO S-52	LS(DASH,1,CHGRD)
BD000				BD000
Point	Full Chart	✓	Simplified	Point
	Symbol Number 0052 ID Code MBD000P0052 Description depth med blue fill cir w/ black dotted outline	(SIMPLIFIED SYMBOLOGY	SAME AS STANI	DARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
✓ DNC	underwater danger/hazard - depth hdp=0 unknown		IHO S-52	SY(OBSTRN01)
	Symbol Number 0053 ID Code MBD000P0053 Description depth med blue fill lg oval w/ black dot outline	(SIMPLIFIED SYMBOLOGY	SAME AS STANI	DARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
✓ DNC	underwater danger/hazard - depth 20m hdp>0and<=20 or less		IHO S-52	SY(DANGER01)
•••••	Symbol Number 0054 ID Code MBD000P0054 Description lg black oval w/ dotted outline	(SIMPLIFIED SYMBOLOGY	SAME AS STANI	DARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
✓ DNC	underwater danger/hazard - depth hdp>20 greater than 20m		IHO S-52	SY(DANGER02)
?	Symbol Number 0058 ID Code MBD000P0058 Description black leader line w/ question mark	(SIMPLIFIED SYMBOLOGY	SAME AS STANI	DARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
✓ DNC	underwater danger/hazard - not accurate acc⇔1		IHO S-52	SY(LOWACC01)
Line	Full Chart	✓	Simplified	Line
	Symbol Number 3139 ID Code MBD000L3139 Description black very thin dotted line			
Product	Feature Description Symbol Assignment Exp	pression Or	rient Source	Source ID
VML0	underwater danger/hazard		ORIGINAL	3139

Area	Full Chart	√ Sin	nplified	Area
	Symbol Number 0629 ID Code MBD000A0629 Description gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
✓ DNC	underwater danger/hazard - depth hdp>20 greater than 20m		IHO S-52	LS(DASH,2,CHGRD)
	Symbol Number 0680 ID Code MBD000A0680 Description black thin dotted line	(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
✓ DNC	underwater danger/hazard - depth 20m hdp>0and<=20 or less		IHO S-52	LS(DOTT,2,CHBLK)
	Symbol Number 0680 ID Code MBD000A0680 Description black thin dotted line	(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	ARD SYMBOLOGY)
	Symbol Number 0810 ID Code MBD000A0810 Description depth med blue solid fill	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
✓ DNC	underwater danger/hazard - depth hdp=0 unknown		IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
3	Symbol Number 0058 ID Code MBD000A0058 Description black leader line w/ question mark	(SIMPLIFIED SYMBOLOGY SAM	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
✓ DNC	underwater danger/hazard - not accurate acc≪1		IHO S-52	SY(LOWACC01)
BD005				BD005
Point	Full Chart	√ Sin	nplified	Point
	Symbol Number 0052 ID Code MBD005P0052 Description depth med blue fill cir w/ black dotted outline			
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
TOD4	miscellaneous underwater feature - wkt=35 obstruction		HITS	Para 403.A
\bigcirc	Symbol Number 0524 ID Code MBD005P0524 Description magenta open circle w/ diagonal cross bar			
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
TOD1	miscellaneous underwater feature - sonar exs=57 confirmed		ВС	Para 601.A.2
TOD2	miscellaneous underwater feature - sonar exs=57 confirmed		ВС	Para 601.A.2

0	Symbol Number 0525 ID Co Description magenta open very vo	ode MBD005P0525 ery thin circle					
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
	niscellaneous underwater feature - eported	exs=58			ВС	Para 601.A.1	
	siscellaneous underwater feature - eported	exs=58			BC	Para 601.A.1	
0	Symbol Number 0526 ID Co Description purple open very thin	ode MBD005P0526					
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
	niscellaneous underwater feature - not bstruction	wkt<>35			HITS	Para 403.A	
BD010						BD0	10
Point	Full Chart			√ Simp	plified	Po	int
	Symbol Number 0056 ID Co Description gray waves symbol	ode MBD010P0056	(SIMPLIFIED SYMBOLOG	GY SAM	IE AS STANDAR	D SYMBOLOGY)	
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC bi	reakers				IHO S-52	SY(WATTUR02)	
Line	Full Chart			√ Simp	plified	Li	ne
	Symbol Number 0752 ID Co Description gray very thin dash li	ode MBD010L0752 ne w/ cntred waves	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)	
Product Fe	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC bi	reakers				IHO S-52	LC=LS(DASH,1,C RD)+SY(WATTU	
Area	Full Chart			√ Simp	plified	Ar	ea
	Symbol Number 0056 ID Co Description gray waves symbol	ode MBD010A0056	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)	
	Symbol Number 0656 ID Co Description gray very thin dash li	ode MBD010A0656 ne	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)	
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC bi	reakers				IHO S-52	SY(WATTUR02) + LS(DASH,1,CHGR	

BD020					BD020
Point	Full Chart		√ Sir	nplified	Poir
O	Symbol Number 0052 ID Code MBD0 Description depth med blue fill cir w/ black do		(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - submerged; depth unknown vrr=4 ANI	O hdp=0		IHO S-52	SY(OBSTRN01)
	Symbol Number 0053 ID Code MBD0 Description depth med blue fill lg oval w/ blace		(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - submerged; depth 20m or less vrr=4 ANI	O hdp>0and<=20		IHO S-52	SY(DANGER01)
•••••	Symbol Number 0054 ID Code MBD0 Description lg black oval w/ dotted outline	20P0054	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - submerged; depth greater than 20m vrr=4 ANI	O hdp>20		IHO S-52	SY(DANGER02)
••••	Symbol Number 0055 ID Code MBD0 Description yellow-green solid circle w/ black		(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - covers and uncovers; depth null vrr=8 ANI	O hdp=NULL		IHO S-52	SY(OBSTRN03)
•	Symbol Number 0057 ID Code MBD0 Description It brown square with dk gray outli		(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - partly submerged/dry; depth null vrr=1 ANI	O hdp=NULL		IHO S-52	SY(OBSTRN11)
3	Symbol Number 0058 ID Code MBD0 Description black leader line w/ question mark		(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - not accurate acc⇔1			IHO S-52	SY(LOWACC01)
Area	Full Chart		√ Sir	nplified	Ar
	Symbol Number 0623 ID Code MBD0 Description dk gray thin solid line	20A0623	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
	Symbol Number 0804 ID Code MBD0 Description brown solid fill	20A0804	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Product	Feature Description Symbol As	ssignment Expressi	ion Orient	Source	Source ID
✓ DNC	crib - above surface vrr=1 ANI	O hdp=NULL		IHO S-52	LS(SOLD,2,CSTLN + AC(CHBRN)

✓ DNC	discolored water - not accurate			IHO S-52	SY(LOWACC01)
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
3	Symbol Number 0058 Description black leader li		(SIMPLIFIED SYMBOLOGY SAI		<u>, </u>
✓ DNC	discolored water			IHO S-52	SY(OBSTRN01)
Product	Feature Description	Symbol Assignment Expres	sion Orient		Source ID
	Symbol Number 0052 Description depth med blu	ID Code MBD030P0052 e fill cir w/ black dotted outline	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
Point	Full Chart		√ Sir	mplified	Poir
BD030					BD030
✓ DNC	crib - not accurate	acc<>1		IHO S-52	SY(LOWACC01)
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
?	Symbol Number 0058 Description black leader li	ID Code MBD020A0058 ne w/ question mark	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND.	ARD SYMBOLOGY)
✓ DNC	crib - submerged; depth unknown	n vrr=4 AND hdp=0		IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
	Symbol Number 0810 Description depth med blu	ID Code MBD020A0810 e solid fill	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND.	ARD SYMBOLOGY)
	Symbol Number 0680 Description black thin dott	ID Code MBD020A0680 red line	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
✓ DNC	crib - submerged; depth 20m or le	ess vrr=4 AND hdp>0and<=20		IHO S-52	LS(DOTT,2,CHBLK
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
	Symbol Number 0680 Description black thin dott	ID Code MBD020A0680 red line	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND	ARD SYMBOLOGY)
✓ DNC	crib - submerged; depth greater th	han 20m vrr=4 AND hdp>20		IHO S-52	LS(DASH,2,CHGRE
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
	Symbol Number 0629 Description gray thin dash	ID Code MBD020A0629 line	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND.	ARD SYMBOLOGY)
✓ DNC	crib - covers and uncovers	vrr=8 AND hdp=NULL		IHO S-52	LS(DASH,2,CSTLN) + AC(DEPIT)
Product	Feature Description	Symbol Assignment Expres	sion Orient	t Source	Source ID
	Symbol Number 0803 Description yellow green s	ID Code MBD020A0803 solid fill	(SIMPLIFIED SYMBOLOGY SAI	ME AS STAND.	ARD SYMBOLOGY)
	Description dk gray thin de	ash line	(SIMPLIFIED SYMBOLOGY SAI	WIE 710 017111D	and ormbozoor,

Area	Full Chart			√ Sim	plified	Area
	Symbol Number 0680 Description black thin dott	ID Code MBD030A0680 ed line	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
	Symbol Number 0810 Description depth med blue	ID Code MBD030A0810 e solid fill	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	discolored water				IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
?	Symbol Number 0058 Description black leader lin	ID Code MBD030A0058 ne w/ question mark	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	discolored water - not accurate	acc⇔1			IHO S-52	SY(LOWACC01)
BD040	5.00			1 0:	No. 1	BD040
Point	Full Chart			✓ Sim	plified	Point
	Symbol Number 0056 Description gray waves syn	ID Code MBD040P0056 mbol	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	eddies				IHO S-52	SY(WATTUR02)
Area	Full Chart			√ Sim	plified	Area
M.	Symbol Number 0056 Description gray waves syn	ID Code MBD040A0056 mbol	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
	Symbol Number 0656 Description gray very thin	ID Code MBD040A0656 dash line	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	eddies				IHO S-52	SY(WATTUR02) + LS(DASH,1,CHGRD)
BD050						BD050
Point	Full Chart			√ Sim	plified	Point
#	Symbol Number 0059 Description gray pound (#)	ID Code MBD050P0059 symbol	(SIMPLIFIED SYMBOLO	DGY SAM	IE AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	foul ground				IHO S-52	SY(FOULGND1)

Area	Full Chart			√ Sim _l	olified	Area
#	Symbol Number 0059 ID Co Description gray pound (#) symbol	de MBD050A0059	(SIMPLIFIED SYMBOL	OGY SAM	E AS STANDARE) SYMBOLOGY)
1 1	Symbol Number 0716 ID Co Description gray dash/chevron line		Symbol Number 0656 Description gray very thin of		MBD050A0656	
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC fo	oul ground				IHO S-52	SY(FOULGND1) + LC(NAVARE51)
BD060						BD060
Point	Full Chart			√ Sim _l	olified	Point
>>	Symbol Number 0060 ID Co Description gray kelp symbol	de MBD060P0060	(SIMPLIFIED SYMBOL	OGY SAM	E AS STANDARE) SYMBOLOGY)
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC k	elp/seaweed				IHO S-52	SY(WEDKLP03)
Area	Full Chart			√ Sim _l	olified	Area
>>	Symbol Number 0060 ID Co Description gray kelp symbol	de MBD060A0060	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI) SYMBOLOGY)
	Symbol Number 3077 ID Co Description It gray very thin dash	de MBD060A3077 line	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI) SYMBOLOGY)
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
√ DNC k	elp/seaweed				IHO S-52	SY(WEDKLP03) + LS(DASH,1,CHGRF)
BD080						BD080
Point	Full Chart			√ Sim _l	olified	Point
M	Symbol Number 0056 ID Co Description gray waves symbol	de MBD080P0056	(SIMPLIFIED SYMBOL	OGY SAM	E AS STANDARE) SYMBOLOGY)
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC o	verfalls/tide rips				IHO S-52	SY(WATTUR02)
Area	Full Chart			√ Sim _l	olified	Area
NN.	Symbol Number 0056 ID Co Description gray waves symbol	de MBD080A0056	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI) SYMBOLOGY)
	Symbol Number 0656 ID Co Description gray very thin dash lin	de MBD080A0656	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI) SYMBOLOGY)
Product F	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC o	verfalls/tide rips				IHO S-52	SY(WATTUR02) + LS(DASH,1,CHGRD)

BD100				BD100
Point	Full Chart		√ Simplified	Poir
•	Symbol Number 0051 ID Code MBD100P00 Description black filled sm cir	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARE) SYMBOLOGY)
Product	Feature Description Symbol Assignm	nent Expression	Orient Source	Source ID
✓ DNC	pile/piling/post		IHO S-52	SY(PILPNT02)
0	Symbol Number 2264 ID Code MBD100P22 Description black cir	64		
Product	Feature Description Symbol Assignm	nent Expression	Orient Source	Source ID
DTOP	pile/piling/post		MIL-STD-2402	2D100P001
VML2	pile/piling/post		MIL-STD-2402	2D100P001
Area	Full Chart		✓ Simplified	Area
	Symbol Number 0623 ID Code MBD100A06 Description dk gray thin solid line	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARD) SYMBOLOGY)
	Symbol Number 0804 ID Code MBD100A08 Description brown solid fill	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARD	SYMBOLOGY)
Product	Feature Description Symbol Assignm	nent Expression	Orient Source	Source ID
✓ DNC	pile/piling/post - does not cover vrr=1		IHO S-52	LS(SOLD,2,CSTLN) + AC(CHBRN)
	Symbol Number 0626 ID Code MBD100A06 Description dk gray thin dash line	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARE) SYMBOLOGY)
	Symbol Number 0803 ID Code MBD100A08 Description yellow green solid fill	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARD	SYMBOLOGY)
Product	Feature Description Symbol Assignm	nent Expression	Orient Source	Source ID
✓ DNC	pile/piling/post - covers and uncovers vrr=8		IHO S-52	LS(DASH,2,CSTLN) + AC(DEPIT)
	Symbol Number 0680 ID Code MBD100A06 Description black thin dotted line	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARD) SYMBOLOGY)
	Symbol Number 0810 ID Code MBD100A08 Description depth med blue solid fill	(SIMPLIFIED S	YMBOLOGY SAME AS STANDARD	SYMBOLOGY)
Product	Feature Description Symbol Assignm	nent Expression	Orient Source	Source ID
✓ DNC	pile/piling/post - submerged vrr=4		IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
DTOP	pile/piling/post		IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
VML2	pile/piling/post		IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)

3	Symbol Number 0058 Description black leader	ID Code MBD100A0058 line w/ question mark	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	pile/piling/post - not accurate	acc<>1			IHO S-52	SY(LOWACC01)
BD110						BD110
Point	Full Chart			√ Simp	olified	Point
•	Symbol Number 0061 Description black dot inst	ID Code MBD110P0061 ide square	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	platform				IHO S-52	SY(OFSPLF01)
<u> </u>	Symbol Number 0402 Description lt magenta ar	ID Code MBD110P0402 cs origin offset - minimum	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	platform - sound signal	sst<>16			IHO S-52	SY(FOGSIG01) for land
	Symbol Number 0500 Description magenta flare	ID Code MBD110P0500	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	platform - lighted	cha=21			IHO S-52	SY(LIGHTDEF)
0	Symbol Number 0512 Description lg magenta de	ID Code MBD110P0512 ashed cir	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	platform - radar navigation syste	em nst=10or54			IHO S-52	SY(RTPBCN02)
BD120						BD120
Line	Full Chart			√ Simp	olified	Line
mmmm	Symbol Number 3186 Description black jagged	ID Code MBD120L3186 line				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	reef				MIL-STD-2402	2D120L002
VML0	reef				MIL-STD-2402	2D120L002
VML1	reef				MIL-STD-2402	2D120L002
VML2	reef				MIL-STD-2402	2D120L002

Area	Full Chart		√ Sim	plified	Area
	Symbol Number 0803 ID C Description yellow green solid f	Code MBD120A0803	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - covers and uncovers	vrr=8		IHO S-52	AC(DEPIT)
	Symbol Number 0949 ID C Description depth gray diamond	Code MBD120A0949 patt fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - covers and uncovers, shallow display mode on	vrr=8 AND isdm=1		IHO S-52	AP(DIAMOND1)
	Symbol Number 0629 ID C Description gray thin dash line	Code MBD120A0629	(SIMPLIFIED SYMBOLOGY SAM	1E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - submerged, depth greater than 20	m vrr=4 AND hdp>20		IHO S-52	LS(DASH,2,CHGRD)
	Symbol Number 0680 ID C Description black thin dotted lin	Code MBD120A0680	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - submerged, depth 20m or less	vrr=4 AND hdp>0and<=2	20	IHO S-52	LS(DOTT,2,CHBLK)
	Symbol Number 0680 ID C Description black thin dotted lin	Code MBD120A0680	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	O SYMBOLOGY)
	Symbol Number 0810 ID C Description depth med blue solid	Code MBD120A0810 d fill	(SIMPLIFIED SYMBOLOGY SAM	1E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - not covers and uncovers, depth unknown or null	vrr<>8 AND hdp=0orNU	TLL	IHO S-52	LS(DOTT,2,CHBLK) + AC(DEPVS)
mmmmm	Symbol Number 3186 ID C Description black jagged line	Code MBD120A3186			
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
DTOP	reef			MIL-STD-2402	2D120A010*
VML1	reef			MIL-STD-2402	2D120A010*
VML2	reef			MIL-STD-2402	2D120A010*
2	Symbol Number 0058 ID C Description black leader line w/	Code MBD120A0058 question mark	(SIMPLIFIED SYMBOLOGY SAM	1E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	reef - not covers and uncovers, not	vrr⇔8 AND acc⇔1		IHO S-52	SY(LOWACC01)
	accurate				

BD130					BD130
Point	Full Chart		✓.	Simplified	Poir
	Symbol Number 0053 ID C Description depth med blue fill l	Code MBD130P0053 g oval w/ black dot outline	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orio	ent Source	Source ID
✓ DNC	rock - submerged; depth 20m or less	vrr=4 AND hdp>0and<=20		IHO S-52	SY(DANGER01)
•••••	Symbol Number 0054 ID C Description lg black oval w/ dott	ode MBD130P0054 ed outline	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orie	ent Source	Source ID
✓ DNC	rock - submerged; depth greater than 20m	vrr=4 AND hdp>20		IHO S-52	SY(DANGER02)
3	Symbol Number 0058 ID C Description black leader line w/ o	dode MBD130P0058 question mark	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Ori	ent Source	Source ID
✓ DNC	rock - not accurate	acc<>1		IHO S-52	SY(LOWACC01)
(#)	Symbol Number 0062 ID C Description black cross in dotted	cir, depth med blue fill	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orio	ent Source	Source ID
✓ DNC	rock - submerged; depth unknown	vrr=4 AND hdp=0		IHO S-52	SY(UWTROC03)
X	Symbol Number 0063 ID C Description black 6 point asterish	Code MBD130P0063	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orio	ent Source	Source ID
✓ DNC	rock - depth null	hdp=NULL		IHO S-52	SY(UWTROC04)
DTOP	rock			IHO S-52	SY(UWTROC04)
VML0	rock			IHO S-52	SY(UWTROC04)
VML1 VML2	rock			IHO S-52 IHO S-52	SY(UWTROC04) SY(UWTROC04)
V IVIL 2	TOCK			IIIO 5-32	\$1(UW1ROC04)
BD140					BD14
Point	Full Chart		✓.	Simplified	Poi
	Symbol Number 0052 ID C Description depth med blue fill c	ode MBD140P0052 ir w/ black dotted outline	(SIMPLIFIED SYMBOLOGY S	AME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orio	ent Source	Source ID
✓ DNC	snags/stumps - submergerd; depth unknown	vrr=4 AND hdp=0		IHO S-52	SY(OBSTRN01)

	Symbol Number 0053 ID Code MBD140P0053 Description depth med blue fill lg oval w/ black dot outline	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	snags/stumps - submerged; depth 20m or vrr=4 AND hdp>0and<=2 less	20	IHO S-52	SY(DANGER01)
•••••	Symbol Number 0054 ID Code MBD140P0054 Description lg black oval w/ dotted outline	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	snags/stumps - submerged; depth greater vrr=4 AND hdp>20 than 20m		IHO S-52	SY(DANGER02)
0000	Symbol Number 0055 ID Code MBD140P0055 Description yellow-green solid circle w/ black dot outline	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	snags/stumps - covers and uncovers; vrr=8 AND hdp=NULL depth null		IHO S-52	SY(OBSTRN03)
	Symbol Number 0057 ID Code MBD140P0057 Description It brown square with dk gray outline	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	snags/stumps - partly submergerd/dry; vrr=1 AND hdp=NULL depth null		IHO S-52	SY(OBSTRN11)
3	Symbol Number 0058 ID Code MBD140P0058 Description black leader line w/ question mark	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	snags/stumps - not accurate acc<>1		IHO S-52	SY(LOWACC01)
Area	Full Chart	√ Sim	plified	Ar
	Symbol Number 0623 ID Code MBD140A0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
	Symbol Number 0804 ID Code MBD140A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	snags/stumps - does not cover vrr=1		IHO S-52	LS(SOLD,2,CSTLN + AC(CHBRN)
	Symbol Number 0626 ID Code MBD140A0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
	Symbol Number 0803 ID Code MBD140A0803 Description yellow green solid fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAI	RD SYMBOLOGY)
Product	Feature Description Symbol Assignment Expr	ression Orient	Source	Source ID
✓ DNC	snags/stumps - covers and uncovers vrr=8		IHO S-52	LS(DASH,2,CSTL) + AC(DEPIT)

	Symbol Number 0680 I Description black thin dotted	D Code MBD140A0680 line	(SIMPLIFIED SYMBOLOGY	SAMI	E AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0810 I Description depth med blue s	D Code MBD140A0810 olid fill	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
✓ DNC	snags/stumps - submerged	vrr=4			IHO S-52	LS(DOTT,2,CHBLK + AC(DEPVS)
3	Symbol Number 0058 I Description black leader line	D Code MBD140A0058 w/ question mark	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
✓ DNC	snags/stumps - not accurate	acc<>1			IHO S-52	SY(LOWACC01)
BD180						BD180
Point	Full Chart			Simp	olified	Poir
						. •
	Symbol Number 0053 I Description depth med blue f	D Code MBD180P0053 fill lg oval w/ black dot outline	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession	rient	Source	Source ID
✓ DNC	wreck - submerged; depth 20m or le	ess vrr=4 AND hdp>0and<=2	0		IHO S-52	SY(DANGER01)
•••••	Symbol Number 0054 I Description lg black oval w/	D Code MBD180P0054 dotted outline	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
✓ DNC	wreck - submerged; depth greater th 20m	nan vrr=4 AND hdp>20			IHO S-52	SY(DANGER02)
3	Symbol Number 0058 I Description black leader line	D Code MBD180P0058 w/ question mark	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
✓ DNC	wreck - not accurate	acc⇔1			IHO S-52	SY(LOWACC01)
4	Symbol Number 0064 I Description gray wreck symb	D Code MBD180P0064	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
√ DNC	wreck - not submerged; depth null	hdp=NULL AND vrr=1or	2or8		IHO S-52	SY(WRECKS01)
✓ DNC	wreck - showing mast/hull/superstructure; depth null	loc<>4 AND hdp=NULL			IHO S-52	SY(WRECKS01)
	Symbol Number 0065 I Description blck bar 3 ticks in	D Code MBD180P0065 n dotted depth med blue oval	(SIMPLIFIED SYMBOLOGY	' SAMI	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession C	rient	Source	Source ID
✓ DNC	wreck - submerged; dangerous; dep unknown	th vrr=4 AND soh=1 AND h	dp=0		IHO S-52	SY(WRECKS05)
✓ DNC	wreck - unknown; depth null	hdp=NULL AND vrr=0			IHO S-52	SY(WRECKS05)

+++	Symbol Number 0066 ID Code MBD180P0066 Description black horiz bar w/3 ticks	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Orien	t Source	Source ID
✓ DNC	wreck - submerged; not dangerous; vrr=4 AND soh=2 AND depth unknown	hdp=0	IHO S-52	SY(WRECKS04)
TOD4	wreck		HITS	Para 403.A
\bigcirc	Symbol Number 0524 ID Code MBD180P0524 Description magenta open circle w/ diagonal cross bar			
Product	Feature Description Symbol Assignment Exp	oression Orien	t Source	Source ID
TOD1	wreck - sonar confirmed exs=57		BC	Para 601.A.2
TOD2	wreck - sonar confirmed exs=57		BC	Para 601.A.2
0	Symbol Number 0525 ID Code MBD180P0525 Description magenta open very very thin circle			
Product	Feature Description Symbol Assignment Exp	oression Orien	t Source	Source ID
TOD1	wreck - reported exs=58		BC	Para 601.A.1
TOD2	wreck - reported exs=58		BC	Para 601.A.1
	Symbol Number 2212 ID Code MBD180P2212 Description black solid filled shipwreck symbol			
Product	Feature Description Symbol Assignment Exp	oression Orien	t Source	Source ID
DTOP	wreck		MIL-STD-2402	2D180P013
VML0	wreck		MIL-STD-2402	2D180P013
VML1	wreck		MIL-STD-2402	2D180P013
VML2	wreck		MIL-STD-2402	2D180P013
Area	Full Chart	√ s	mplified	Are
	Symbol Number 0623 ID Code MBD180A0623 Description dk gray thin solid line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 ID Code MBD180A0804 Description brown solid fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Orien	t Source	Source ID
✓ DNC	wreck - does not cover; depth null vrr=1 AND hdp=NULL		IHO S-52	LS(SOLD,2,CSTLN) + AC(CHBRN)
	Symbol Number 0626 ID Code MBD180A0626 Description dk gray thin dash line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0803 ID Code MBD180A0803 Description yellow green solid fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	oression Orien	t Source	Source ID
✓ DNC	wreck - covers and uncovers; depth null vrr=8 AND hdp=NULL		IHO S-52	LS(DASH,2,CSTLN) + AC(DEPIT)

	Symbol Number 0630 ID Co Description dk gray thin dotted lin		(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0810 ID Co Description depth med blue solid		(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	wreck - submerged; depth unknown	vrr=4 AND hdp=0			IHO S-52	LS(DOTT,2,CSTLN) + AC(DEPVS)
✓ DNC	wreck - unknown; awash; depth null	vrr=0or2 AND hdp=NUL	L		IHO S-52	LS(DOTT,2,CSTLN) + AC(DEPVS)
	Symbol Number 0680 ID Co Description black thin dotted line	ode MBD180A0680	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	wreck - submerged; depth 20m or less	vrr=4 AND hdp>0and<=	20		IHO S-52	LS(DOTT,2,CHBLK)
	Symbol Number 3117 ID Co Description black thin dash line	ode MBD180A3117	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	wreck - submerged; depth greater than	vrr=4 AND hdp>20			IHO S-52	LS(DASH,2,CHBLK)
✓ DNC BE010 Line	20m	·		√ Simp	olified	BE010
BE010	20m Full Chart	nde MRE0101 0608		√ Simp	Dlified	
BE010	20m Full Chart	ode MBE010L0608	(SIMPLIFIED SYMBOLOG			Line
BE010	Full Chart Symbol Number 0608 ID Co		(SIMPLIFIED SYMBOLOG			Line
BE010 Line	Symbol Number 0608 ID Co Description depth gray very thin s	solid line	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDA	Line ARD SYMBOLOGY)
BE010 Line Product	Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc	Symbol Assignment Expracc=1 AND crv ssdc	(SIMPLIFIED SYMBOLOG	Y SAM Orient	E AS STANDA Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN)
BE010 Line Product	Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co	Symbol Assignment Expracc=1 AND crv ssdc	(SIMPLIFIED SYMBOLOG	Y SAM Orient	Source IHO S-52 E AS STANDA	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN)
BE010 Line Product ✓ DNC	Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol	Symbol Assignment Exprace=1 AND crv ssdc ode MBE010L0609 lid line	(SIMPLIFIED SYMBOLOG	Y SAM Orient Y SAM	Source IHO S-52 E AS STANDA	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY)
BE010 Line Product ✓ DNC Product	Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol Feature Description depth curve - accurate; equals ssdc	Symbol Assignment Exprance=1 AND crv ssdc acc=1 AND crv ssdc ade MBE010L0609 acc=1 AND crv=ssdc acc=1 AND crv=ssdc ade MBE010L0613	(SIMPLIFIED SYMBOLOG	Orient Y SAM Orient Orient	Source IHO S-52 E AS STANDA Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY) Source ID LS(SOLD,2,DEPSC)
BE010 Line Product ✓ DNC Product	Full Chart Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol Feature Description depth curve - accurate; equals ssdc Symbol Number 0613 ID Co	Symbol Assignment Exprance=1 AND crv ssdc acc=1 AND crv ssdc ade MBE010L0609 acc=1 AND crv=ssdc acc=1 AND crv=ssdc ade MBE010L0613	(SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG	Y SAM Orient Y SAM Orient Y SAM	Source IHO S-52 E AS STANDA Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY) Source ID LS(SOLD,2,DEPSC)
BE010 Line Product ✓ DNC Product ✓ DNC	Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol Feature Description depth curve - accurate; equals ssdc Symbol Number 0613 ID Co Description depth dk gray thin das	Symbol Assignment Exprance=1 AND crv ssdc ode MBE010L0609 lid line Symbol Assignment Exprance=1 AND crv=ssdc ode MBE010L0613 sh line	(SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG	Y SAM Orient Y SAM Orient Y SAM	Source IHO S-52 E AS STANDA Source IHO S-52 E AS STANDA	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY) Source ID LS(SOLD,2,DEPSC) ARD SYMBOLOGY)
Product ✓ DNC Product ✓ DNC Product ✓ Product	Full Chart Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol Feature Description depth curve - accurate; equals ssdc Symbol Number 0613 ID Co Description depth dk gray thin das Feature Description depth curve - not accurate; equals ssdc	Symbol Assignment Exprace=1 AND crv ssdc ode MBE010L0609 did line Symbol Assignment Exprace=1 AND crv=ssdc ode MBE010L0613 sh line Symbol Assignment Exprace=2 AND crv=ssdc	(SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG (SIMPLIFIED SYMBOLOG	Y SAM Orient Y SAM Orient Y SAM Orient	Source IHO S-52 E AS STANDA Source IHO S-52 E AS STANDA Source IHO S-52 IHO S-52	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY) Source ID LS(SOLD,2,DEPSC) ARD SYMBOLOGY) Source ID LS(DASH,2,DEPSC)
BE010 Line Product ✓ DNC Product ✓ DNC Product	Full Chart Symbol Number 0608 ID Co Description depth gray very thin s Feature Description depth curve - accurate; not equal ssdc Symbol Number 0609 ID Co Description depth dk gray thin sol Feature Description depth curve - accurate; equals ssdc Symbol Number 0613 ID Co Description depth dk gray thin das Feature Description depth curve - not accurate; equals ssdc Symbol Number 0614 ID Co	Symbol Assignment Exprace=1 AND crv ssdc ode MBE010L0609 did line Symbol Assignment Exprace=1 AND crv=ssdc ode MBE010L0613 sh line Symbol Assignment Exprace=2 AND crv=ssdc	(SIMPLIFIED SYMBOLOG Cession (SIMPLIFIED SYMBOLOG Cession (SIMPLIFIED SYMBOLOG CESSION (SIMPLIFIED SYMBOLOG	Y SAM Orient Y SAM Orient Y SAM Orient	Source IHO S-52 E AS STANDA Source IHO S-52 E AS STANDA Source IHO S-52 IHO S-52	Line ARD SYMBOLOGY) Source ID LS(SOLD,1,DEPCN) ARD SYMBOLOGY) Source ID LS(SOLD,2,DEPSC) ARD SYMBOLOGY) Source ID LS(DASH,2,DEPSC)

Area	Full Chart		√ s	implified	Area
	Symbol Number 0805 ID Description depth white fill	Code MBE010A0805	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orie	nt Source	Source ID
✓ DNC	depth area (deep water); 2 shades	idsm=1 AND cvl>=ssdca	nd<>99999	IHO S-52	AC(DEPDW)
✓ DNC	depth area (very deep); 4 shades	idsm=0 AND cvl>=msdc	and<>99999	IHO S-52	AC(DEPDW)
	Symbol Number 0810 ID Description depth med blue sol	Code MBE010A0810 id fill	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orie	nt Source	Source ID
✓ DNC	depth area (very shallow); 2 shades; shallow mode off	idsm=1 AND isdm=0 AN	ID cvl <ssdc< td=""><td>IHO S-52</td><td>AC(DEPVS)</td></ssdc<>	IHO S-52	AC(DEPVS)
✓ DNC	depth area (very shallow); 2 shades; shallow mode on	idsm=1 AND isdm=1 AN	ID cvl <ssdc< td=""><td>IHO S-52</td><td>AC(DEPVS)</td></ssdc<>	IHO S-52	AC(DEPVS)
✓ DNC	depth area (very shallow); 4 shades; shallow mode off	idsm=0 AND isdm=0 AN	ID cvl <mssc< td=""><td>IHO S-52</td><td>AC(DEPVS)</td></mssc<>	IHO S-52	AC(DEPVS)
✓ DNC	depth area (very shallow); 4 shades; shallow mode on	idsm=0 AND isdm=1 AN	ID cvl <mssc< td=""><td>IHO S-52</td><td>AC(DEPVS)</td></mssc<>	IHO S-52	AC(DEPVS)
	Symbol Number 0820 ID Description depth pale blue sol	Code MBE010A0820 id fill	(SIMPLIFIED SYMBOLOGY SA	AME AS STAND	ARD SYMBOLOGY)
Product	Feature Description	C1 -1 Ai E			
	reature Description	Symbol Assignment Exp	ression Orie	nt Source	Source ID
✓ DNC	depth area (medium deep); 4 shades	idsm=0 AND cvl>=ssdca		IHO S-52	Source ID AC(DEPMD)
✓ DNC	depth area (medium deep); 4 shades	idsm=0 AND cvl>=ssdca		IHO S-52	AC(DEPMD)
✓ DNC Product	depth area (medium deep); 4 shades Symbol Number 0821 ID	idsm=0 AND cvl>=ssdca	nd <msdc (SIMPLIFIED SYMBOLOGY SA</msdc 	IHO S-52	AC(DEPMD)
	depth area (medium deep); 4 shades Symbol Number 0821 ID Description depth lt blue solid	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp	nd <msdc (simplified="" sa<="" symbology="" td=""><td>IHO S-52</td><td>AC(DEPMD) ARD SYMBOLOGY)</td></msdc>	IHO S-52	AC(DEPMD) ARD SYMBOLOGY)
Product	depth area (medium deep); 4 shades Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp es; idsm=0 AND isdm=0 AN	(SIMPLIFIED SYMBOLOGY SAcression Oriental Discontinuous Contraction of the Contraction of	IHO S-52 AME AS STAND nt Source	AC(DEPMD) ARD SYMBOLOGY) Source ID
Product ✓ DNC	depth area (medium deep); 4 shades Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade shallow mode off depth area (medium shallow); 4 shade shallow mode on	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp s; idsm=0 AND isdm=0 AN s; idsm=0 AND isdm=1 AN Code MBE010A0823	(SIMPLIFIED SYMBOLOGY SAcression Oriental Discontinuous Contraction of the Contraction of	IHO S-52 AME AS STAND It Source IHO S-52 IHO S-52	AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS)
Product ✓ DNC	depth area (medium deep); 4 shades Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade shallow mode off depth area (medium shallow); 4 shade shallow mode on Symbol Number 0823 ID	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp s; idsm=0 AND isdm=0 AN s; idsm=0 AND isdm=1 AN Code MBE010A0823	ression Oriential Control of the Con	IHO S-52 AME AS STAND It Source IHO S-52 IHO S-52	AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS)
Product ✓ DNC ✓ DNC	depth area (medium deep); 4 shades Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade shallow mode off depth area (medium shallow); 4 shade shallow mode on Symbol Number 0823 ID Description no data gray solid in	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp s; idsm=0 AND isdm=0 AN s; idsm=0 AND isdm=1 AN Code MBE010A0823 fill	ression Oriential Control of the Con	IHO S-52 AME AS STAND IN Source IHO S-52 IHO S-52	AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS) ARD SYMBOLOGY)
Product ✓ DNC ✓ DNC Product	Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade shallow mode off depth area (medium shallow); 4 shade shallow mode on Symbol Number 0823 ID Description no data gray solid if Feature Description depth area; depth unknown	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp es; idsm=0 AND isdm=0 AN es; idsm=0 AND isdm=1 AN Code MBE010A0823 fill Symbol Assignment Exp cvl=99999 Code MBE010A0934	ression Oriential Control of the Con	IHO S-52 AME AS STAND II Source IHO S-52 IHO S-52 AME AS STAND II Source IHO S-52	AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS) ARD SYMBOLOGY) Source ID AC(NODTA)
Product ✓ DNC ✓ DNC Product	Symbol Number 0821 ID Description depth It blue solid Feature Description depth area (medium shallow); 4 shade shallow mode off depth area (medium shallow); 4 shade shallow mode on Symbol Number 0823 ID Description no data gray solid to the shallow mode on Feature Description depth area; depth unknown	idsm=0 AND cvl>=ssdca Code MBE010A0821 fill Symbol Assignment Exp es; idsm=0 AND isdm=0 AN es; idsm=0 AND isdm=1 AN Code MBE010A0823 fill Symbol Assignment Exp cvl=99999 Code MBE010A0934	(SIMPLIFIED SYMBOLOGY SATESSION Ories ID cvl>=msscand <ssdc (simplif<="" (simplified="" ories="" satession="" symbology="" td=""><td>IHO S-52 AME AS STAND IN Source IHO S-52 IHO S-52 AME AS STAND IN Source IHO S-52 AME AS STAND</td><td>AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS) ARD SYMBOLOGY) Source ID AC(NODTA)</td></ssdc>	IHO S-52 AME AS STAND IN Source IHO S-52 IHO S-52 AME AS STAND IN Source IHO S-52 AME AS STAND	AC(DEPMD) ARD SYMBOLOGY) Source ID AC(DEPMS) AC(DEPMS) ARD SYMBOLOGY) Source ID AC(NODTA)

$\langle \rangle \langle \rangle$	Symbol Number 0949 ID Co Description depth gray diamond p	de MBE010A0949 att fill	(SIMPLIFIED SYMBOLOGY	SAME	AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
✓ DNC	depth area (medium shallow); 4 shades; shallow mode on	idsm=0 AND isdm=1 AN	D cvl>=msscand <ssdc< td=""><td>]</td><td>IHO S-52</td><td>AP(DIAMOND1)</td></ssdc<>]	IHO S-52	AP(DIAMOND1)
✓ DNC	depth area (very shallow); 2 shades; shallow mode on	idsm=1 AND isdm=1 AN	ID cvl <ssdc< td=""><td>]</td><td>IHO S-52</td><td>AP(DIAMOND1)</td></ssdc<>]	IHO S-52	AP(DIAMOND1)
✓ DNC	depth area (very shallow); 4 shades; shallow mode on	idsm=0 AND isdm=1 AN	[D cvl <mssc< td=""><td>]</td><td>IHO S-52</td><td>AP(DIAMOND1)</td></mssc<>]	IHO S-52	AP(DIAMOND1)
	Symbol Number 0631 ID Co Description gray thin solid line	de MBE010A0631	(SIMPLIFIED SYMBOLOGY	SAME	AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
✓ DNC	depth area; depth unknown	cvl=99999]	IHO S-52	LS(SOLD,2,CHGRD)
BE015						BE015
Line	Full Chart		✓	Simplif	fied	Line
	Symbol Number 0608 ID Co Description depth gray very thin s	de MBE015L0608 olid line				
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
TOD1	depth contour - accurate; not equal ssdc	acc=1 AND crv⇔ssdc]	IHO S-52	LS(SOLD,1,DEPCN)
TOD2	depth contour - accurate; not equal ssdc	acc=1 AND crv⇔ssdc]	IHO S-52	LS(SOLD,1,DEPCN)
TOD4	depth contour - accurate,not index	acc=1 AND hqc<>1		1	HITS	Para 402.A*
	Symbol Number 0609 ID Co Description depth dk gray thin sol	de MBE015L0609 id line				
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
TOD1	depth contour - accurate; equals ssdc	acc=1 AND crv=ssdc]	IHO S-52	LS(SOLD,2,DEPSC)
TOD2	depth contour - accurate; equals ssdc	acc=1 AND crv=ssdc]	IHO S-52	LS(SOLD,2,DEPSC)
TOD4	depth contour - accurate, index	acc=1 AND hqc=1]	HITS	Para 402.A*
	Symbol Number 0613 ID Co Description depth dk gray thin das	de MBE015L0613 sh line				
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
TOD1	depth contour - not accurate; equals ssdc	acc=2 AND crv=ssdc]	IHO S-52	LS(DASH,2,DEPSC)
TOD2	depth contour - not accurate; equals ssdc	acc=2 AND crv=ssdc]	IHO S-52	LS(DASH,2,DEPSC)
	Symbol Number 0614 ID Co Description depth gray very thin d	de MBE015L0614 lash line				
Product	Feature Description	Symbol Assignment Expr	ression Or	rient S	Source	Source ID
TOD1	depth contour - not accurate; not equal ssdc	acc=2 AND crv⇔ssdc]	IHO S-52	LS(DASH,1,DEPCN)
TOD2	depth contour - not accurate; not equal ssdc	acc=2 AND crv<>ssdc]	IHO S-52	LS(DASH,1,DEPCN)

	Symbol Number 0688 ID Co	ode MBE015L0688			
	Description depth dk gray thin lo				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD4	depth contour - not accurate, index	acc≪1 AND hqc=1		HITS	Para 402.A*
1004	depth contour not accurate, macx	uce of this inquir		11115	1 drd +02.71
	Symbol Number 0689 ID Co	ode MBE015L0689			
	Description depth gray very thin				
	Bescription depth gray very time	iong dustrine			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD4	depth contour - not accurate, not index	acc⇔1 AND hqc⇔1		HITS	Para 402.A*
		ode MBE015L3082			
	Description gray very thin solid li	ine			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	depth contour			MIL-STD-2402	2E015L005
VML0	depth contour			MIL-STD-2402	2E015L005
VML1	depth contour			MIL-STD-2402	2E015L005
VML2	depth contour			MIL-STD-2402	2E015L005
WVS	depth contour			MIL-STD-2402	2E015L005
DE040					DE040
BE019					BE019
Area	Full Chart		√ Simr	olified	Area
Area	Full Chart		√ Simp	olified	Area
Area		ode MRF019A0803	√ Simp	Dified	Area
Area	Symbol Number 0803 ID Co	ode MBE019A0803	√ Simp	blified	Area
Area			√ Simp	olified	Area
Area	Symbol Number 0803 ID Co			Source	Area Source ID
	Symbol Number 0803 ID Co Description yellow green solid file	II .			
Product	Symbol Number 0803 ID Conception Description yellow green solid file. Feature Description	Symbol Assignment Expression		Source	Source ID
Product TOD1	Symbol Number 0803 ID Conception Description yellow green solid file Feature Description depth area - depth unknown	Symbol Assignment Expression cvl=-32767		Source IHO S-52	Source ID AC(DEPIT)
Product TOD1 TOD2	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown	Symbol Assignment Expression cvl=-32767 cvl=-32767		Source IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT)
Product TOD1 TOD2	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown	Symbol Assignment Expression cvl=-32767 cvl=-32767		Source IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT)
Product TOD1 TOD2	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767		Source IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT)
Product TOD1 TOD2 TOD4	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Conception depth white fill	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805	Orient	Source IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT)
Product TOD1 TOD2 TOD4 Product	Symbol Number 0803 ID Conception of the Peature Description of the Peature Description depth area - depth unknown Description depth white fill Feature Description	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression	Orient	Source IHO S-52 IHO S-52 IHO S-52 Source	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT)
Product TOD1 TOD2 TOD4 Product TOD1	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown Symbol Number 0805 ID Conception depth white fill Feature Description depth greater than 200m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD1 TOD2	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Conception depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200 cvl>=200	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1	Symbol Number 0803 ID Conception yellow green solid file Feature Description depth area - depth unknown Symbol Number 0805 ID Conception depth white fill Feature Description depth greater than 200m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200 cvl>=200 cvl>=123	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD1 TOD2	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m Symbol Number 0810 ID Corporation	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m Symbol Number 0810 ID Corporation	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767	Orient	Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2 TOD4	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m Symbol Number 0810 ID Corporation depth area depth greater than 123m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200 cvl>=200 cvl>=123 ode MBE019A0810 fill	Orient	Source IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2 TOD4 Product TOD1 TOD2 TOD4	Symbol Number 0803 ID Corporation yellow green solid file Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Corporation depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 200m depth area - depth greater than 123m Symbol Number 0810 ID Corporation depth med blue solid Feature Description	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200 cvl>=200 cvl>=123 ode MBE019A0810 fill Symbol Assignment Expression	Orient	Source IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW) AC(DEPDW)
Product TOD1 TOD2 TOD4 Product TOD1 TOD2 TOD4 Product TOD1 TOD2 TOD4	Symbol Number 0803 ID Co Description yellow green solid fil Feature Description depth area - depth unknown depth area - depth unknown depth area - depth unknown Symbol Number 0805 ID Co Description depth white fill Feature Description depth area - depth greater than 200m depth area - depth greater than 123m Symbol Number 0810 ID Co Description depth med blue solid Feature Description depth area - depth greater than 123m	Symbol Assignment Expression cvl=-32767 cvl=-32767 cvl=-32767 ode MBE019A0805 Symbol Assignment Expression cvl>=200 cvl>=200 cvl>=123 ode MBE019A0810 fill Symbol Assignment Expression cvl>=0and<200	Orient	Source IHO S-52	Source ID AC(DEPIT) AC(DEPIT) AC(DEPIT) Source ID AC(DEPDW) AC(DEPDW) AC(DEPDW) AC(DEPDW)

		ALLEN	IDIX A		
	Symbol Number 0820 Description depth pale b	ID Code MBE019A0820 lue solid fill			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
WVS	depth area			IHO S-52	AC(DEPMD)
BE020					BE020
Point	Full Chart		✓:	Simplified	Point
0	Symbol Number 1251 Description sounding gra	ID Code MBE020P1251 ay circle	(SIMPLIFIED SYMBOLOGY S	AME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
✓ DNC	sounding or drying height - circ indicating low accuracy	cle (light) acc<>1		IHO S-52	SY(SOUND*C2)
TOD1	sounding - circle (light) indicat accuracy	ting low acc⇔1		IHO S-52	SY(SOUND*C2)
TOD2	sounding - circle (light) indicat accuracy	ting low acc⇔1		IHO S-52	SY(SOUND*C2)
TOD4	sounding - circle (light) indicat accuracy	ting low ace⇔1		IHO S-52	SY(SOUND*C2)
_	Symbol Number 1256 Description sounding bla	ID Code MBE020P1256 ack overbar	(SIMPLIFIED SYMBOLOGY S	AME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
✓ DNC	drying height overbar (dark)	hdh>=0 AND hdp=NUL	L	IHO S-52	SY(SOUNDSA1)
BE030					BE030
Area	Full Chart		✓:	Simplified	Area
	Symbol Number 0820 Description depth pale b	ID Code MBE030A0820 blue solid fill			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
TOD1	track swath			ORIGINAL	0820
TOD2	track swath			ORIGINAL	0820
BE040					BE040
Line	Full Chart		✓:	Simplified	Line
	Symbol Number 0670 Description depth med b	ID Code MBE040L0670 blue thin dash line			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
TOD1	track line			MIL-STD-2402	2E030L001
TOD2	track line			MIL-STD-2402	2E030L001

BF010						BF010
Point	Full Chart			√ Sim _l	plified	Point
<u>B</u>	Symbol Number 1233 ID Conception black horiz line below	ode MBF010P1233 w triangle w/ B inside	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	bottom characteristics - surface unknow	n mcc=0 AND psc=0			ORIGINAL	1233
BF012						BF012
Point	Full Chart			√ Sim	plified	Point
0	Symbol Number 0022 ID Conception black cir	ode MBF012P0022				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TOD4	hull integrity test site core site				HITS	Para 404.E
BG010						BG010
Point	Full Chart			√ Simp	plified	Point
? . ?	Symbol Number 0071 ID Conception gray arrow w/ 2 feath	ode MBG010P0071 ners and 2 ?	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	current flow - general; direction	cur=0 OR dof=0			IHO S-52	SY(CURDEF01)
TOD0	unknown current flow - general; direction unknown	cur=0 OR dof=0			IHO S-52	SY(CURDEF01)
*	Symbol Number 0072 ID Conception gray arrow w/ two fe	ode MBG010P0072 athers	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	current flow - general, ocean; direction			dof	IHO S-52	SY(CURENT01)
TOD0	known current flow - ocean; direction known	cur=5 AND dof<>0		dof	IHO S-52	SY(CURENT01)
^		ode MBG010P0073	(SIMPLIFIED SYMBOLO			
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	current flow - ebb; direction known	cur=1 AND dof<>0		dof	IHO S-52	SY(EBBSTR01)
	Symbol Number 0074 ID Conception gray arrow w/ one fee	ode MBG010P0074 ather	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	current flow - flood; direction known	cur=2 AND dof<>0		dof	IHO S-52	SY(FLDSTR01)

^	Symbol Number 1006 Description basic blue line	ID Code MBG010P1006 w/ arrow					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	current flow				MIL-STD-2402	2G010P004	
D0000						_	0000
BG020						B	G020
Point	Full Chart			√ Simp	plified		Point
SS	Symbol Number 0015 Description It magenta SS i	ID Code MBG020P0015 n rectangle w/ pale green fill	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	O SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	tide gauge				IHO S-52	SY(SISTATO	2)
DC020							0000
BG030						B	G030
Point	Full Chart			√ Simp	plified		Point
\bigcirc	Symbol Number 0076 Description gray diamond	ID Code MBG030P0076	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	O SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	tide data point				IHO S-52	SY(TIDSTR0	1)
BG040						В	G040
Point	Full Chart			√ Simp	plified		Point
	Symbol Number 0154 Description magenta cir,arr	ID Code MBG040P0154 lows pting out,represent only	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	O SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	current diagram				ORIGINAL	0154	
BH000						В	H000
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 0621 Description depth med blue	ID Code MBH000L0621 e very thin solid line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
	inland water				ORIGINAL	0621	

Area	Full Chart		√ Sir	nplified	Area
	Symbol Number 4152 Description lt blue solid fil	ID Code MBH000A4152			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
VML0	inland water			ORIGINAL	4152
BH010					BH010
Point	Full Chart		√ Sir	nplified	Point
	Symbol Number 1007 Description basic blue cir	ID Code MBH010P1007			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
UVM	aqueduct			MIL-STD-2402	2H010P003
VML1	aqueduct			MIL-STD-2402	2H010P003
VML2	aqueduct			MIL-STD-2402	2H010P003
Line	Full Chart		√ Sir	nplified	Line
	Symbol Number 0610 Description gray solid line	ID Code MBH010L0610	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	aqueduct - elevated	loc=25		IHO S-52	LS(SOLD,3,CHGRD)
	Symbol Number 0704 Description gray dash very	ID Code MBH010L0704 thin line w/ sm cir	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
✓ DNC	aqueduct - not elevated	loc<>25		IHO S-52	LC(PIPSOL06)
		100 - 25			LC(PIPSOL06)
	Symbol Number 3050 Description basic blue dash	ID Code MBH010L3050			LC(FIFSOLUO)
Product		ID Code MBH010L3050	ression Orien	Source	Source ID
Product DTOP	Description basic blue dash	ID Code MBH010L3050 hed line w/ open cirs	ression Orient	Source MIL-STD-2402	Source ID
	Description basic blue dash Feature Description	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp	ression Orient		
DTOP	Description basic blue dash Feature Description aqueduct - not elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp. loc⇔25	ression Orien	MIL-STD-2402	Source ID 2H010L029
DTOP FFD	Feature Description aqueduct - not elevated aqueduct - not elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc > 25 loc > 25	ression Orient	MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029
DTOP FFD UVM	Feature Description aqueduct - not elevated aqueduct - not elevated aqueduct - not elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc⇔25 loc⇔25 loc⇔25	ression Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029
DTOP FFD UVM VML1	Feature Description aqueduct - not elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc<>25 loc<>25 loc<>25 loc<>25 loc<>25 loc<>25	ression Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029
DTOP FFD UVM VML1	Feature Description aqueduct - not elevated squeduct - not elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc<>25 loc<>25 loc<>25 loc<>25 loc<>25 loc<>25		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029
DTOP FFD UVM VML1 VML2	Feature Description aqueduct - not elevated Description basic blue very	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc<25 loc<25 loc<25 loc<25 loc<25 loc<25 very loc<25		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029
DTOP FFD UVM VML1 VML2 Product	Peature Description aqueduct - not elevated Symbol Number 4266 Description basic blue very	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp. loc<25 loc<25 loc<25 loc<25 loc<25 loc<25 soc<25 loc<25 loc<25 soc<25		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029 Source ID
DTOP FFD UVM VML1 VML2 Product DTOP FFD UVM	Feature Description aqueduct - not elevated Symbol Number 4266 Description basic blue very Feature Description aqueduct - elevated aqueduct - elevated aqueduct - elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc <> 25		MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029 Source ID 2H010L001* 2H010L001* 2H010L001*
DTOP FFD UVM VML1 VML2 Product DTOP FFD	Feature Description aqueduct - not elevated Symbol Number 4266 Description basic blue very Feature Description aqueduct - elevated aqueduct - elevated	ID Code MBH010L3050 hed line w/ open cirs Symbol Assignment Exp loc \$\iiiis 25		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029 2H010L029 Source ID 2H010L001* 2H010L001*

BH015						BH015
Area	Full Chart			√ Sim	plified	Area
ate ate	Symbol Number 4080 Description basic blue r	ID Code MBH015A4080 narsh/swamp patt fill				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
UVM	bog				MIL-STD-2402	5D040A002
VML0	bog				MIL-STD-2402	5D040A002
VML1	bog				MIL-STD-2402	5D040A002
VML2	bog				MIL-STD-2402	5D040A002
BH020						BH020
Line	Full Chart			√ Sim	plified	Line
	Symbol Number 0600 Description black very	ID Code MBH020L0600 hin solid line	(SIMPLIFIED SYMBOLOG	GY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	canal				IHO S-52	LS(SOLD,1,CHBLK)
	Symbol Number 3108 Description depth pale to	ID Code MBH020L3108 blue thin solid line				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	canal - perennial	hyc=0or8			MIL-STD-2402	2H020L001
FFD	canal - perennial	hyc=8			MIL-STD-2402	2H020L001
UVM	canal - perennial	hyc=8			MIL-STD-2402	2H020L001
VITD	canal				MIL-STD-2402	2H020L001
VML1	canal - perennial	hyc=8			MIL-STD-2402	2H020L001
VML2	canal - perennial	hyc=8			MIL-STD-2402	2H020L001
	Symbol Number 3109 Description depth pale by	ID Code MBH020L3109 blue thin dotted line				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	canal - dry	hyc=3			MIL-STD-2402	2H020L002*
	Symbol Number 3167 Description depth pale l	ID Code MBH020L3167 blue thin short dash line				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
FFD	canal - not perennial	hyc⇔8			MIL-STD-2402	2H020L002
UVM	canal - not perennial	hyc⇔8			MIL-STD-2402	2H020L002
VML1	canal - not perennial	hyc⇔8			MIL-STD-2402	2H020L002
VML2	canal - not perennial	hyc<>8			MIL-STD-2402	2H020L002

Area	Full Chart		√ Si	mplified	Are
	Symbol Number 4138 ID Description med blue solid fill	Code MBH020A4138			
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
FFD	canal - perennial	hyc=8		MIL-STD-2402	2H020A002
UVM	canal - navigable; perennial	exs=32 AND hyc=8		MIL-STD-2402	2H020A002
VML2	canal - navigable; perennial	exs=32 AND hyc=8		MIL-STD-2402	2H020A002
	Symbol Number 0600 ID Description black very thin sol	Code MBH020A0600			
	Symbol Number 4138 ID Description med blue solid fill	Code MBH020A4138			
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
DTOP ⇔sdr	canal			MIL-STD-2402	2H020A007*
DTOP sdr	canal - not covered	cda<>2		MIL-STD-2402	2H020A006*
	Symbol Number 0600 ID Description black very thin sol	Code MBH020A0600 id line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0810 ID Description depth med blue so	Code MBH020A0810 lid fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
/ DNC	canal			IHO S-52	LS(SOLD,1,CHBLk + AC(DEPVS)
	Symbol Number 3116 ID Description black very thin das	Code MBH020A3116 sh line			
	Symbol Number 4138 ID Description med blue solid fill	Code MBH020A4138			
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
DTOP sdr	canal - covered	cda=2		MIL-STD-2402	2H020A015*
	Symbol Number 4265 ID Description basic blue thin soli	Code MBH020A4265 id line			
Product			ression Orien	t Source	Source ID
Product VITD	Description basic blue thin soli	id line	ression Orien	t Source ORIGINAL	Source ID 4265
	Description basic blue thin soli Feature Description canal - perennial Symbol Number 4265 ID Description basic blue thin soli Symbol Number 1608 ID	Symbol Assignment Exp hyc=8 Code MBH020A4265 id line Code MBH020A1608	ression Orien		
	Description basic blue thin soli Feature Description canal - perennial Symbol Number 4265 ID Description basic blue thin soli Symbol Number 1608 ID Description basic blue stipple of	Symbol Assignment Exp hyc=8 Code MBH020A4265 id line Code MBH020A1608 dot patt fill			
VITD	Description basic blue thin soli Feature Description canal - perennial Symbol Number 4265 ID Description basic blue thin soli Symbol Number 1608 ID Description basic blue stipple of	Symbol Assignment Exp hyc=8 Code MBH020A4265 id line Code MBH020A1608 dot patt fill Symbol Assignment Exp		ORIGINAL t Source	4265 Source ID
VITD Product FFD	Description basic blue thin soli Feature Description canal - perennial Symbol Number 4265 ID Description basic blue thin soli Symbol Number 1608 ID Description basic blue stipple of the solid bl	Symbol Assignment Exp hyc=8 Code MBH020A4265 id line Code MBH020A1608 dot patt fill Symbol Assignment Exp hyc<>8		ORIGINAL t Source MIL-STD-2402	4265 Source ID 2H020A005
VITD	Description basic blue thin soli Feature Description canal - perennial Symbol Number 4265 ID Description basic blue thin soli Symbol Number 1608 ID Description basic blue stipple of	Symbol Assignment Exp hyc=8 Code MBH020A4265 id line Code MBH020A1608 dot patt fill Symbol Assignment Exp hyc<>8		ORIGINAL t Source	4265 Source ID

BH030						ВІ	H030
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 0621 Description depth med b	ID Code MBH030L0621 lue very thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
FFD	ditch				MIL-STD-2402	2H030L006	
UVM	ditch - perennial, unknown	hyc=0or8			MIL-STD-2402	2H030L006	
VML1	ditch - perennial, unknown	hyc=0or8			MIL-STD-2402	2H030L006	
VML2	ditch - perennial, unknown	hyc=0or8			MIL-STD-2402	2H030L006	
	Symbol Number 0669 Description depth med b	ID Code MBH030L0669 lue very thin dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	ditch - intermittent	hyc=6			MIL-STD-2402	2H030L002	
VML1	ditch - not perennial	hyc<>0and<>8			MIL-STD-2402	2H030L002	
VML2	ditch - intermittent	hyc=6			MIL-STD-2402	2H030L002	
	Symbol Number 3107 Description depth pale b	ID Code MBH030L3107 lue very thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	ditch				MIL-STD-2402	2H030L006	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0821 Description depth lt blue	ID Code MBH030A0821 solid fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
FFD	ditch				MIL-STD-2402	2H030A002	
UVM	ditch				MIL-STD-2402	2H030A002	
VML2	ditch				MIL-STD-2402	2H030A002	
	Symbol Number 0600 Description black very th	ID Code MBH030A0600 nin solid line					
	Symbol Number 0821 Description depth lt blue	ID Code MBH030A0821 solid fill					
Product			ression	Orient	Source	Source ID	
Product DTOP \Leftrightarrow sdr	Description depth lt blue Feature Description	solid fill	ression	Orient	Source MIL-STD-2402	Source ID 2H030A003*	

		APPEN	IDIX A			
	Symbol Number 3116 ID Description black very thin das	Code MBH030A3116 h line				
	Symbol Number 0821 ID Description depth lt blue solid	Code MBH030A0821 fill				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DTOP sdr	ditch - covered	cda=2			MIL-STD-2402	2H030A008*
BH040						BH040
Area	Full Chart		•	Simp	lified	Area
	Symbol Number 0600 ID Description black very thin soli	Code MBH040A0600 id line				
	Symbol Number 4303 ID Description 100% cyan blue rt	Code MBH040A4303 diag line patt fill				
Product	Feature Description	Symbol Assignment Exp	ression (Orient	Source	Source ID
DTOP	filtration beds/aeration beds				MIL-STD-2402	2H040A001*
FFD	filtration beds/aeration beds				MIL-STD-2402	2H040A001*
UVM	filtration beds/aeration beds				MIL-STD-2402	2H040A001*
VML1	filtration beds/aeration beds				MIL-STD-2402	2H040A001*
VML2	filtration beds/aeration beds				MIL-STD-2402	2H040A001*
BH050						BH050
Area						
	Full Chart		•	Simp	lified	Area
1		Code MBH050A0716 line) Code	MBH050A0656	Area
	Symbol Number 0716 ID Description gray dash/chevron	line Code MBH050A0904	Symbol Number 0656 ID	O Code line	MBH050A0656	
Product	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID	line Code MBH050A0904	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY	Code line	MBH050A0656	
Product ✓ DNC	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat	Code MBH050A0904 t fill	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY	Code line	MBH050A0656	O SYMBOLOGY)
	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY	Code line	MBH050A0656 E AS STANDARE Source	Source ID LC(NAVARE51) +
	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY	Code line	MBH050A0656 E AS STANDARE Source	Source ID LC(NAVARE51) +
	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52	Source ID LC(NAVARE51) +
✓ DNC	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID Description med blue solid fill	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52	Source ID LC(NAVARE51) + AP(MARCUL02)
✓ DNC Product	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID Description med blue solid fill Feature Description	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52 Source	Source ID LC(NAVARE51) + AP(MARCUL02)
Product DTOP	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid lim Symbol Number 4138 ID Description med blue solid fill Feature Description fish hatchery/fish farm/marine farm	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52 Source MIL-STD-2402	Source ID LC(NAVARE51) + AP(MARCUL02) Source ID 2H050A001
Product DTOP FFD	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID Description med blue solid fill Feature Description fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402	Source ID LC(NAVARE51) + AP(MARCUL02) Source ID 2H050A001 2H050A001
Product DTOP FFD UVM	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID Description med blue solid fill Feature Description fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LC(NAVARE51) + AP(MARCUL02) Source ID 2H050A001 2H050A001 2H050A001
Product DTOP FFD UVM VML0	Symbol Number 0716 ID Description gray dash/chevron Symbol Number 0904 ID Description gray fish in net pat Feature Description fish hatchery/fish farm/marine farm Symbol Number 3112 ID Description black thin solid line Symbol Number 4138 ID Description med blue solid fill Feature Description fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm fish hatchery/fish farm/marine farm	line Code MBH050A0904 t fill Symbol Assignment Exp Code MBH050A3112 e Code MBH050A4138	Symbol Number 0656 ID Description gray very thin dash (SIMPLIFIED SYMBOLOGY ression (O Code line / SAME	MBH050A0656 E AS STANDARE Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID LC(NAVARE51) + AP(MARCUL02) Source ID 2H050A001 2H050A001 2H050A001 2H050A001

BH060					В	H060
Line	Full Chart		√ Sim	plified		Line
	Symbol Number 3106 Description depth pale	5 ID Code MBH060L3106 e blue very thin solid line w/ ticks				
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID	
DTOP	flume - elevated	loc=25		MIL-STD-2402	2H060L003	
UVM	flume - elevated	loc=25		MIL-STD-2402	2H060L003	
VML1	flume - elevated	loc=25		MIL-STD-2402	2H060L003	
VML2	flume - elevated	loc=25		MIL-STD-2402	2H060L003	
	Symbol Number 3107 Description depth pale	7 ID Code MBH060L3107 e blue very thin solid line				
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID	
DTOP	flume - not elevated	loc<>25		MIL-STD-2402	2H060L002	
UVM	flume - not elevated	loc<>25		MIL-STD-2402	2H060L002	
VML1	flume - not elevated	loc<>25		MIL-STD-2402	2H060L002	
VML2	flume - not elevated	loc<>25		MIL-STD-2402	2H060L002	
BH070					В	H070
Point	Full Chart		✓ Sim	plified		Point
X	Symbol Number 2087 Description black opp	7 ID Code MBH070P2087 cosing solid triangles pnting in				
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID	
DTOP	ford			MIL-STD-2402	2H070P005	
FFD						
FFD	ford			MIL-STD-2402	2H070P005	
UVM	ford ford			MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005	
UVM	ford			MIL-STD-2402	2H070P005	
UVM VITD	ford ford			MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005	
UVM VITD VML0	ford ford ford			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005 2H070P005	
UVM VITD VML0 VML1	ford ford ford		√ Sim	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005	Line
UVM VITD VML0 VML1 VML2	ford ford ford ford ford		√ Sim	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005	Line
UVM VITD VML0 VML1 VML2	ford ford ford ford ford ford Full Chart			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 plified	2H070P005 2H070P005 2H070P005 2H070P005	Line
UVM VITD VML0 VML1 VML2 Line	ford ford ford ford ford ford Full Chart Symbol Number 3114 Description black very	y thin short dash line		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 plified	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005	Line
UVM VITD VML0 VML1 VML2 Line	ford ford ford ford ford ford Full Chart Symbol Number 3114 Description black very	y thin short dash line		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005	Line
UVM VITD VML0 VML1 VML2 Line Product DTOP	ford ford ford ford ford Full Chart Symbol Number 3114 Description black very Feature Description ford	y thin short dash line		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Plified Source MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 Source ID 2H070L001	Line
UVM VITD VML0 VML1 VML2 Line Product DTOP FFD	ford ford ford ford ford ford Full Chart Symbol Number 3114 Description black very Feature Description ford ford	y thin short dash line		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source MIL-STD-2402 MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 Source ID 2H070L001	Line
UVM VITD VML0 VML1 VML2 Line Product DTOP FFD UVM	ford ford ford ford ford ford Full Chart Symbol Number 3114 Description black very Feature Description ford ford ford	y thin short dash line		MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 Source ID 2H070L001 2H070L001	Line
UVM VITD VML0 VML1 VML2 Line Product DTOP FFD UVM VITD	ford ford ford ford ford ford Full Chart Symbol Number 3114 Description black very Feature Description ford ford ford ford ford	y thin short dash line		MIL-STD-2402	2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 2H070P005 Source ID 2H070L001 2H070L001 2H070L001 2H070L001	Line

BH075						В	H075
Point	Full Chart			√ Simp	olified		Point
•	Symbol Number 2320 Description basic blue sm o	ID Code MBH075P2320 cir in cir w/4 squares outside					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	fountain				ORIGINAL	2320	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4266 Description basic blue very	ID Code MBH075A4266 y thin solid line					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Symbol Number 1609 Description basic blue diag	ID Code MBH075A1609 g grid patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	fountain				ORIGINAL	4266 1609	
BH077						R	H077
							11011
Area	Full Chart			√ Simp	olified		Area
	Full Chart Symbol Number 1511 Description brown thin line	ID Code MBH077A1511 e outward ticks		√ Simp	blified		
Area	Symbol Number 1511		ression	✓ Simp		Source ID	
Area	Symbol Number 1511 Description brown thin line	e outward ticks	ression				
Area	Symbol Number 1511 Description brown thin line Feature Description	e outward ticks	ression		Source	Source ID	
Area Product UVM	Symbol Number 1511 Description brown thin line Feature Description hummock	e outward ticks	ression		Source ORIGINAL	Source ID 1511	
Product UVM VML0	Symbol Number 1511 Description brown thin line Feature Description hummock hummock	e outward ticks	ression		Source ORIGINAL ORIGINAL	Source ID 1511 1511 1511	
Product UVM VML0 VML2	Symbol Number 1511 Description brown thin line Feature Description hummock hummock	e outward ticks	ression		Source ORIGINAL ORIGINAL ORIGINAL	Source ID 1511 1511 1511	Area
Product UVM VML0 VML2	Symbol Number 1511 Description brown thin line Feature Description hummock hummock hummock	Symbol Assignment Exp ID Code MBH080A4071	ression	Orient	Source ORIGINAL ORIGINAL ORIGINAL	Source ID 1511 1511 1511	Area H080
Product UVM VML0 VML2	Symbol Number 1511 Description brown thin line Feature Description hummock hummock hummock Full Chart	Symbol Assignment Exp ID Code MBH080A4071		Orient	Source ORIGINAL ORIGINAL ORIGINAL	Source ID 1511 1511 1511	Area H080
Product UVM VML0 VML2 BH080 Area	Symbol Number 1511 Description brown thin line Feature Description hummock hummock hummock Full Chart Symbol Number 4071 Description basic blue solid	Symbol Assignment Exp ID Code MBH080A4071 d fill		Orient ✓ Simp	Source ORIGINAL ORIGINAL ORIGINAL	Source ID 1511 1511 1511	Area H080
Product UVM VML0 VML2 BH080 Area	Symbol Number 1511 Description brown thin line Feature Description hummock hummock hummock Full Chart Symbol Number 4071 Description basic blue solid Feature Description	ID Code MBH080A4071 d fill Symbol Assignment Exp		Orient ✓ Simp	Source ORIGINAL ORIGINAL ORIGINAL Diffied	Source ID 1511 1511 1511 B Source ID	Area H080
Product UVM VML0 VML2 BH080 Area Product FFD	Symbol Number 1511 Description brown thin line Feature Description hummock hummock hummock Full Chart Symbol Number 4071 Description basic blue solid Feature Description lake/pond - perennial, unknown	ID Code MBH080A4071 d fill Symbol Assignment Exp hyc=0or8		Orient ✓ Simp	Source ORIGINAL ORIGINAL ORIGINAL ORIGINAL Source MIL-STD-2402	Source ID 1511 1511 1511 B Source ID 2H080A001	Area H080

	Symbol Number 0600 Description black very thin	ID Code MBH080A0600 solid line				
	Symbol Number 4071 Description basic blue solid	ID Code MBH080A4071 fill				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP <>sdr					MIL-STD-2402	2H080A006*
DTOP sdr	lake/pond - perennial	hyc=8			MIL-STD-2402	2H080A006*
	Symbol Number 0600 Description black very thin	ID Code MBH080A0600 solid line	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
	Symbol Number 0810 Description depth med blue	ID Code MBH080A0810 solid fill	(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
/ DNC	lake/pond				IHO S-52	LS(SOLD,1,CHBLK + AC(DEPVS)
	Symbol Number 1655 Description basic blue thin	ID Code MBH080A1655 dash line				
	Symbol Number 1611 Description basic blue dot p	ID Code MBH080A1611				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP sdr	lake/pond - not perennial	hyc<>8			MIL-STD-2402	2H080A007*
FFD	lake/pond - dry	hyc=3			MIL-STD-2402	2H080A005*
UVM	lake/pond - dry, intermittent	hyc=3or6			MIL-STD-2402	2H080A005*
VML1	lake/pond - dry, intermittent	hyc=3or6			MIL-STD-2402	2H080A005*
VML2	lake/pond - dry, intermittent	hyc=3or6			MIL-STD-2402	2H080A005*
3H090						BH09
∖rea	Full Chart			√ Simp	olified	Are
	Symbol Number 4078 Description basic blue inun-		(SIMPLIFIED SYMBOLOG	SY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
/ DNC	land subject to inundation				MIL-STD-2402	2H090A001
DTOP	land subject to inundation				MIL-STD-2402	2H090A001
FFD	land subject to inundation				MIL-STD-2402	2H090A001
UVM	land subject to inundation				MIL-STD-2402	2H090A001
VML0	land subject to inundation				MIL-STD-2402	2H090A001
VML1	land subject to inundation				MIL-STD-2402	2H090A001
VML2	land subject to inundation				MIL-STD-2402	2H090A001
	Symbol Number 3118 Description black dash line	ID Code MBH090A3118				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
VITD	land subject to inundation	з з сет сет-Вишене Вир			MIL-STD-2402	2H090A005
11111	and subject to mundation				111L 31D-2402	2110/0/1003

BH095					BH09
Area	Full Chart		✓:	Simplified	Ar
赤	Symbol Number 0910 I Description brown marsh pat	D Code MBH095A0910 t fill	(SIMPLIFIED SYMBOLOGY S	AME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
√ DNC	marsh/swamp			IHO S-52	AP(MARSHES1)
357. 5(3):	Symbol Number 1605 I Description yellow-green tree	D Code MBH095A1605 e-top patt fill			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
DTOP	marsh/swamp - deciduous	veg=24		MIL-STD-2402	5C030A015
A., A., d A., A., d	Symbol Number 1606 I Description yellow-green tria	D Code MBH095A1606 ingle tree patt fill			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
DTOP	marsh/swamp - evergreen, mixed	veg=25or50		MIL-STD-2402	5C030A002
	Symbol Number 4080 I Description basic blue marsh	D Code MBH095A4080 /swamp patt fill			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
DTOP	marsh/swamp - no trees	veg=0or56		MIL-STD-2402	5D040A002
FFD	marsh/swamp			MIL-STD-2402	5D040A002
UVM	marsh/swamp			MIL-STD-2402	5D040A002
VITD	marsh/swamp			MIL-STD-2402	2H095A001
VML0	marsh/swamp			MIL-STD-2402	5D040A002
VML1	marsh/swamp			MIL-STD-2402	5D040A002
VML2	marsh/swamp			MIL-STD-2402	5D040A002
X X X	Description basic blue thin da	D Code MBH095A1613			
Product	Feature Description	Symbol Assignment Exp	ression	ent Source	Source ID
DTOP	marsh/swamp - palm, mangrove	veg=16or19		MIL-STD-2402	5C030A029
DIOI	marsh/swamp pumi, mangrove	veg 10011)		WILE 01D 2-102	300301102)
BH100					BH10
Line	Full Chart		✓:	Simplified	Li
ШШ	Symbol Number 3142 I Description black parallel vy	D Code MBH100L3142 thin lines w/ tics (ladder patt)			
Product	Feature Description	Symbol Assignment Exp	ression Orio	ent Source	Source ID
DTOP	moat			MIL-STD-2402	2H100L001
DIOI					

Area	Full Chart			√ Simp	plified		Area
	Symbol Number 4152 Description It blue solid fill	ID Code MBH100A4152					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	moat	~)		9	ORIGINAL	4152	
						-	
BH110						В	H110
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 3106 Description depth pale blue	ID Code MBH110L3106 very thin solid line w/ ticks					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	penstock - elevated	loc=25			MIL-STD-2402	2H110L001	
UVM	penstock - elevated	loc=25			MIL-STD-2402	2H110L001	
VML1	penstock - elevated	loc=25			MIL-STD-2402	2H110L001	
VML2	penstock - elevated	loc=25			MIL-STD-2402	2H110L001	
	Symbol Number 3107 Description depth pale blue	ID Code MBH110L3107 very thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	penstock - not elevated	loc<>25			MIL-STD-2402	2H110L002	
UVM	penstock - not elevated	loc<>25			MIL-STD-2402	2H110L002	
VML1	penstock - not elevated	loc<>25			MIL-STD-2402	2H110L002	
VML2	penstock - not elevated	loc<>25			MIL-STD-2402	2H110L002	
BH120						В	H120
Point	Full Chart			√ Sim _l	plified		Point
\Diamond	Symbol Number 2231 Description basic blue open	ID Code MBH120P2231 n diamond					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	rapids				ORIGINAL	2231	
VML0	rapids				ORIGINAL	2231	
VML1	rapids				ORIGINAL	2231	
VML2	rapids				ORIGINAL	2231	
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 0610 Description gray solid line	ID Code MBH120L0610	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	rapids	, , , , , , , , ,			IHO S-52	LS(SOLD,3,C	HGRD)
	1					- (, - , -	/

		ALLEI	NDIX A			
	Symbol Number 3117 ID Description black thin dash line	Code MBH120L3117				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	rapids				MIL-STD-2402	2H120L001*
VML1	rapids				MIL-STD-2402	2H120L001*
VML2	rapids				MIL-STD-2402	2H120L001*
BH130						BH130
Area	Full Chart			√ Simp	plified	Area
	Symbol Number 0600 ID Description black very thin soli	Code MBH130A0600 d line				
	Symbol Number 4138 ID Description med blue solid fill	Code MBH130A4138				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	reservoir				MIL-STD-2402	2H130A001
FFD	reservoir				MIL-STD-2402	2H130A001*
UVM	reservoir				MIL-STD-2402	2H130A001*
VML1	reservoir				MIL-STD-2402	2H130A001*
VML2	reservoir				MIL-STD-2402	2H130A001*
	Symbol Number 0600 ID Description black very thin soli	Code MBH130A0600 d line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	O SYMBOLOGY)
	Symbol Number 0810 ID Description depth med blue sol	Code MBH130A0810 id fill	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	reservoir				IHO S-52	LS(SOLD,1,CHBLK) + AC(DEPVS)
BH135						BH135
Area	Full Chart			√ Simp	plified	Area
т т	Symbol Number 4085 ID Description basic blue rice patt	Code MBH135A4085 fill				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
FFD	rice field	у с			MIL-STD-2402	5A010A001
VITD	rice field				MIL-STD-2402	5A010A001
VML0	rice field				MIL-STD-2402	5A010A001
VML1	rice field				MIL-STD-2402	5A010A001

MIL-STD-2402 5A010A001

VML2

rice field

BH140						BH14
ine	Full Chart			√ Sim	plified	Li
	Symbol Number 0600 ID 0 Description black very thin solid	Code MBH140L0600	(SIMPLIFIED SYMBOLOG	GY SAN	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID
✓ DNC	river/stream				IHO S-52	LS(SOLD,1,CHBL
	Symbol Number 1656 ID 0 Description 100% cyan blue ver	Code MBH140L1656 y thin solid line				
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID
DTOP	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
FFD	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
UVM	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
VITD	river/stream - perennial, braided, unknownn	hyc=0or8or14			MIL-STD-2402	2H140L001
VML0	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
VML1	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
VML2	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140L001
	Symbol Number 4182 ID 0 Description 100% cyan blue ver	Code MBH140L4182 ry thin short dash line				
Product	Feature Description	Symbol Assignment Expre	ession	Orient	Source	Source ID
DTOP	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
FFD	river/stream - dry, non-perennial	hyc=3or6			MIL-STD-2402	2H140L002
UVM	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
VITD	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
VML0	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
VML1	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
VML2	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140L002
Area	Full Chart			√ Sim	plified	Ar
	Symbol Number 0600 ID 0 Description black very thin solid	Code MBH140A0600	(SIMPLIFIED SYMBOLOG	GY SAN	IE AS STANDAR	D SYMBOLOGY)
	Symbol Number 0810 ID 0 Description depth med blue soli	Code MBH140A0810 d fill	(SIMPLIFIED SYMBOLOG	GY SAN	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID
✓ DNC	river/stream				IHO S-52	LS(SOLD,1,CHBLF + AC(DEPVS)

		ALLE					
	Symbol Number 1656 ID Co	ode MBH140A1656					
	Description 100% cyan blue very						
	Symbol Number 4154 ID C	ode MBH140A4154					
	Description 31% cyan blue solid						
Product	Feature Description	Symbol Assignment Exp	ression	Orient		Source ID	
DTOP \diamond sdr		1 0 0			MIL-STD-2402	2H140A002	
DTOP sdr	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140A002	
FFD UVM	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140A002	
VITD	river/stream - perennial, unknown river/stream - perennial, braided,	hyc=0or8 hyc=0or8or14			MIL-STD-2402 MIL-STD-2402	2H140A002 2H140A002	
VIID	unknown	11yc=00180114			MIL-31D-2402	211140A002	
VML1	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140A002	
VML2	river/stream - perennial, unknown	hyc=0or8			MIL-STD-2402	2H140A002	
		ode MBH140A4182					
	Description 100% cyan blue very	tiiii siioit dasii iiile					
	Symbol Number 4079 ID Co	ode MBH140A4079					
• . •	Description 100% cyan blue stipp	ole dot patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP sdr	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140A003	
FFD	river/stream - dry, non-perennial	hyc=3or6			MIL-STD-2402	2H140A003	
UVM	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140A003	
VITD	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140A003	
VML1	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140A003	
VML2	river/stream - dry, intermittent	hyc=3or6			MIL-STD-2402	2H140A003	
BH145						ВІ	H145
Point	Full Chart			√ Simp	alifia d		Point
FOIII	Full Chart			V Sillip	Jilled		FOILIT
	Symbol Number 2232 ID C	ode MBH145P2232					
	Description basic blue solid arroy						
	Description basic blue solid arrow	viicad					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	river stream vanishing point				MIL-STD-2402	2H145P001*	
VML1	river stream vanishing point				MIL-STD-2402	2H145P001*	
VML2	river stream vanishing point				MIL-STD-2402	2H145P001*	
BH150						BI	H150
Aroo	Full Object			√ Simp	-1251		Area
Area	Full Chart			▼ Simp	oimea		Alea
	Complet North on 0011 ID C	- J- MDII150 4 0011					
	•	ode MBH150A0911					
+++	Description depth med blue grid	pau IIII					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	salt pan				MIL-STD-2402	2H150A001	
VML1	salt pan				MIL-STD-2402	2H150A001	
VML2	salt pan				MIL-STD-2402	2H150A001	

		AFFER					
	Symbol Number 4081 Description basic blue di	ID Code MBH150A4081 iag grid patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	salt pan	, ,			ORIGINAL	4081	
	•						
BH155						В	H155
Point	Full Chart			√ Simp	olified		Point
	Symbol Number 2233 Description basic blue so	ID Code MBH155P2233 quare w/ grid inside					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
VML0	salt evaporator				ORIGINAL	2233	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0911 Description depth med b	ID Code MBH155A0911 blue grid patt fill	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	D SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	salt evaporator				MIL-STD-2402	2H150A001	
DTOP	salt evaporator				MIL-STD-2402	2H150A011	
FFD	salt evaporator				MIL-STD-2402	2H150A011	
UVM	salt evaporator				MIL-STD-2402	2H150A001	
VML0	salt evaporator				MIL-STD-2402	2H150A001	
VML1	salt evaporator				MIL-STD-2402	2H150A001	
VML2	salt evaporator				MIL-STD-2402	2H150A001	
BH160						В	H160
Area	Full Chart			√ Simp	olified		Area
• : •	Symbol Number 4289 Description basic blue st	ID Code MBH160A4289 tipple dot patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	sebkha				MIL-STD-2402	2H160A001	
UVM	sebkha				MIL-STD-2402	2H160A001	
VML1	sebkha				MIL-STD-2402	2H160A001	
VML2	sebkha				MIL-STD-2402	2H160A001	
BH165						В	H165
Point	Full Chart			√ Simp	olified		Point
	Symbol Number 2234 Description basic blue ci	ID Code MBH165P2234 ir diagly half filled					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	spillway	r			ORIGINAL	2234	
	1 7						

Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3082 Description gray very th	ID Code MBH165L3082 in solid line					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	spillway				ORIGINAL	3082	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 4145 Description depth pale b	ID Code MBH165A4145 blue lft diag dash line patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
UVM	spillway				ORIGINAL	4145	
BH170						В	H170
Point	Full Chart			√ Sim	plified		Poin
	Symbol Number 1008 Description basic blue fi	ID Code MBH170P1008 illed cir w/ tail below					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	spring/water-hole				MIL-STD-2402	2H170P002	
UVM	spring/water-hole				MIL-STD-2402	2H170P002	
VML0	spring/water-hole				MIL-STD-2402	2H170P002	
VML1 VML2	spring/water-hole spring/water-hole				MIL-STD-2402 MIL-STD-2402	2H170P002 2H170P002	
VIVILLE	spring water note				WIIE 51D 2402	2111701 002	
BH180						В	H180
Point	Full Chart			√ Sim	plified		Poin
♦	Symbol Number 1009 Description basic blue fi	ID Code MBH180P1009 illed diamond					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	waterfall				ORIGINAL	1009	
VML0	waterfall				ORIGINAL	1009	
VML1	waterfall				ORIGINAL	1009	
VML2	waterfall				ORIGINAL	1009	
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 0615 Description pale green s	ID Code MBH180L0615 olid line	(SIMPLIFIED SYMBOL	OGY SAM	IE AS STANDAR	D SYMBOLOG	GY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	

		APPEN					
	Symbol Number 0621 II Description depth med blue v	D Code MBH180L0621 ery thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	waterfall				MIL-STD-2402	2H180L001	
VML1	waterfall				MIL-STD-2402	2H180L001	
VML2	waterfall				MIL-STD-2402	2H180L001	
BH190						В	H190
Area	Full Chart			√ Sim	plified		Area
mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	Symbol Number 1506 II Description basic blue jagged	D Code MBH190A1506 I vy thin line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML1	lagoon/reef pool				MIL-STD-2402	2D125A001	
BH200						В	H200
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3109 II Description depth pale blue th	D Code MBH200L3109 nin dotted line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	miscellaneous surface drainage feati	ıre			ORIGINAL	3109	
Area	Full Chart			√ Sim	plified		Area
• . •	Symbol Number 4150 II Description depth pale blue s	D Code MBH200A4150 tiple dot patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	miscellaneous surface drainage feat	ıre			ORIGINAL	4150	
BH210						В	H210
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 0600 II Description black very thin se	D Code MBH210L0600 blid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDARI	D SYMBOLOG	eY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	inland shoreline				IHO S-52	LS(SOLD,1,C	HBLK)
	Symbol Number 0621 II Description depth med blue v	D Code MBH210L0621 ery thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	inland shoreline - unknown, rocky, rubble, sandy, stony, other	slt=0or10or11or13or14o	r15		MIL-STD-2402	2H075L001	

		AFFLI	IDIA A				
	Symbol Number 3042	ID Code MBH210L3042					
	Description basic blue ver						
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	inland shoreline - mangrove, mar				MIL-STD-2402	2H075L002	
BI010							BI010
Point	Full Chart			√ Simp	plified		Point
	Symbol Number 1010 Description basic blue soli	ID Code MBI010P1010 id square					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	cistern				MIL-STD-2402	2I010P001	
UVM	cistern				MIL-STD-2402	2I010P001	
VML1	cistern				MIL-STD-2402	2I010P001	
VML2	cistern				MIL-STD-2402	2I010P001	
BI020							BI020
Point	Full Chart			√ Sim	nlified		Point
TOILE	r dii Onare			• Oiiiii	piniou		1 Ont
	Symbol Number 2238 Description black vertical	ID Code MBI020P2238 heavy weight line					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	dam/weir				MIL-STD-2402	2I020P002	
FFD	dam/weir				MIL-STD-2402	2I020P002	
VITD	dam/weir				MIL-STD-2402	2I020P002	
VML0	dam/weir				MIL-STD-2402	2I020P002	
VML1	dam/weir				MIL-STD-2402	2I020P002	
VML2	dam/weir				MIL-STD-2402	2I020P002	
Line	Full Chart			√ Sim _l	plified		Line
	Symbol Number 0607 Description feature brown	ID Code MBI020L0607 thick solid line	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	D SYMBOLO	GY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	dam/weir				IHO S-52	LS(SOLD,4,	LANDF)
	Symbol Number 3113 Description black solid lin	ID Code MBI020L3113					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	dam/weir				MIL-STD-2402	2I020L001	
FFD	dam/weir				MIL-STD-2402	2I020L001	
UVM	dam/weir				MIL-STD-2402	2I020L001	
VITD	dam/weir				MIL-STD-2402	2I020L001	
VML0	dam/weir				MIL-STD-2402	2I020L001	
VML1	dam/weir				MIL-STD-2402	2I020L001	
VML2	dam/weir				MIL-STD-2402	2I020L001	

Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4156 Description black solid for	ID Code MBI020A4156					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	dam/weir				ORIGINAL	4156	
FFD	dam/weir				ORIGINAL	4156	
UVM	dam/weir				ORIGINAL	4156	
VML2	dam/weir				ORIGINAL	4156	
BI030							BI030
Point	Full Chart			√ Simp	olified		Point
>	Symbol Number 2239 Description black open a	ID Code MBI030P2239 arrowhead					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	lock				MIL-STD-2402	2I030P004	
FFD	lock				MIL-STD-2402	2I030P004	
VITD	lock				MIL-STD-2402	2I030P004	
VML0	lock				MIL-STD-2402	2I030P004	
VML2	lock				MIL-STD-2402	2I030P004	
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3194 Description nav orange	ID Code MBI030L3194 very thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VITD	lock				MIL-STD-2402	2I030L001	
VML1	lock				MIL-STD-2402	2I030L001	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0600 Description black very the Symbol Number 0810	ID Code MBI030A0810					
Draduat	Description depth med b		raccion .	Orient	Cauras	Source ID	
Product	Feature Description	Symbol Assignment Exp	16221011	Orient			CIIDI IV
DTOP	lock				IHO S-52	LS(SOLD,1, + AC(DEPV	S)
FFD	lock				IHO S-52	LS(SOLD,1, + AC(DEPV	
UVM	lock				IHO S-52	LS(SOLD,1, + AC(DEPV	
VML2	lock				IHO S-52		CHBLK)

		ALLEN	IDIX A			
	Symbol Number 0623 Description dk gray thin s	ID Code MBI030A0623 solid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
	Symbol Number 0804 Description brown solid f	ID Code MBI030A0804 ĭill	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	lock				IHO S-52	LS(SOLD,2,CSTLN) + AC(CHBRN)
BI040						BI040
Point	Full Chart			√ Sim	plified	Poin
	Symbol Number 0025 Description traffic magen	ID Code MBI040P0025 ta lg cir, 2 horiz & 1 vert line				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	sluice gate				IHO S-52	SY(GATCON04)
UVM	sluice gate				IHO S-52	SY(GATCON04)
VML0	sluice gate				IHO S-52	SY(GATCON04)
VML2	sluice gate				IHO S-52	SY(GATCON04)
Line	Full Chart			√ Sim	plified	Line
	Symbol Number 0623 Description dk gray thin s	ID Code MBI040L0623 solid line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	sluice gate				IHO S-52	LS(SOLD,2,CSTLN)
DTOP	sluice gate				IHO S-52	LS(SOLD,2,CSTLN)
UVM	sluice gate				IHO S-52	LS(SOLD,2,CSTLN)
VML2	sluice gate				IHO S-52	LS(SOLD,2,CSTLN)
BI050						BI050
Point	Full Chart			√ Sim	plified	Poin
•	Symbol Number 0024 Description black dot insi	ID Code MBI050P0024 ide cir				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
DTOP	water intake tower	<u> </u>			MIL-STD-2402	2I050P001
UVM	water intake tower				MIL-STD-2402	2I050P001
VML1	water intake tower				MIL-STD-2402	2I050P001
VML2	water intake tower				MIL-STD-2402	2I050P001
	* * * *					

	Full Chart		√ Sin	nplified	Are
	Symbol Number 0600 Description black very thin	ID Code MBI050A0600 solid line			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	water intake tower			MIL-STD-2402	2I050A001
UVM	water intake tower			MIL-STD-2402	2I050A001
VML2	water intake tower			MIL-STD-2402	2I050A001
BJ020					BJ020
Area	Full Chart		√ Sin	nplified	Are
* . * . * . * . * . *	Symbol Number 1406 Description brown thin soli Symbol Number 4032 Description brown stipple of	ID Code MBJ020A4032			
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID
DTOP	moraine	ojinoori nongiinione ziip	0.10.11	MIL-STD-2402	2J020A001*
VML1	moraine			MIL-STD-2402	2J020A001*
VML2	moraine			MIL-STD-2402	2J020A001*
Area	Full Chart		√ Sin	nplified	Are
	Symbol Number 0823 Description no data gray so	ID Code MBJ030A0823 olid fill	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product					D SYMBOLOGY) Source ID
Product ✓ DNC	Description no data gray so	lid fill			,
	Description no data gray so Feature Description	Symbol Assignment Exp ID Code MBJ030A4150		Source	Source ID
✓ DNC	Description no data gray so Feature Description glacier Symbol Number 4150	Symbol Assignment Exp ID Code MBJ030A4150	ression Orient	Source	Source ID
✓ DNC	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill	ression Orient	Source IHO S-52	Source ID AC(NODTA)
✓ DNC Product	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue Feature Description	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill	ression Orient	Source IHO S-52 Source	Source ID AC(NODTA) Source ID
✓ DNC Product DTOP	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue Feature Description glacier	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill	ression Orient	Source IHO S-52 Source MIL-STD-2402	Source ID AC(NODTA) Source ID 2J030A001
Product DTOP VML1	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue Feature Description glacier glacier	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill Symbol Assignment Exp ID Code MBJ030A0656	ression Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID AC(NODTA) Source ID 2J030A001 2J030A001 2J030A001
Product DTOP VML1	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue Feature Description glacier glacier glacier Symbol Number 0656	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill Symbol Assignment Exp ID Code MBJ030A0656 dash line ID Code MBJ030A0912	ression Orient ression Orient	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID AC(NODTA) Source ID 2J030A001 2J030A001 2J030A001 D SYMBOLOGY)
Product DTOP VML1	Description no data gray so Feature Description glacier Symbol Number 4150 Description depth pale blue Feature Description glacier glacier glacier Symbol Number 0656 Description gray very thin of Symbol Number 0912	Symbol Assignment Exp ID Code MBJ030A4150 e stiple dot patt fill Symbol Assignment Exp ID Code MBJ030A0656 dash line ID Code MBJ030A0912	ression Orient Orient (SIMPLIFIED SYMBOLOGY SAI (SIMPLIFIED SYMBOLOGY SAI	Source IHO S-52 Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID AC(NODTA) Source ID 2J030A001 2J030A001 2J030A001 D SYMBOLOGY)

BJ040					BJ040
Line	Full Chart		√ Sir	nplified	Lin
	Symbol Number 3047 Description basic blue th	ID Code MBJ040L3047 nin long dash line			
Product	Feature Description	Symbol Assignment Exp	pression Orient	Source	Source ID
DTOP	ice cliff	, , ,		MIL-STD-2402	2J040L001
VML0	ice cliff			MIL-STD-2402	2J040L001
VML1	ice cliff			MIL-STD-2402	2J040L001
VML2	ice cliff			MIL-STD-2402	2J040L001
BJ060					BJ06
Point	Full Chart		√ Sir	mplified	Poi
***	Symbol Number 0077 Description black radiate	ID Code MBJ060P0077	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression Orient	Source	Source ID
✓ DNC	ice peak/nunatak			IHO S-52	SY(HILTOP11)
<u> </u>	Symbol Number 2242 Description black 8 pt as	ID Code MBJ060P2242 sterisk w/ open center			
Product	Feature Description	Symbol Assignment Exp	pression Orient	Source	Source ID
DTOP	ice peak/nunatak			MIL-STD-2402	2J060P002
VML1	ice peak/nunatak			MIL-STD-2402	2J060P002
VML2	ice peak/nunatak			MIL-STD-2402	2J060P002
BJ065					BJ06
Area	Full Chart		√ Sir	nplified	Are
	Symbol Number 0823 Description no data gray	ID Code MBJ065A0823 solid fill	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression Orient	Source	Source ID
✓ DNC	ice shelf			IHO S-52	AC(NODTA)
11	Symbol Number 4151 Description basic blue ri	ID Code MBJ065A4151 pple jagged patt fill			
Product	Feature Description	Symbol Assignment Exp	pression Orient	Source	Source ID
DTOP	ice shelf			ORIGINAL	4151
VML0	ice shelf			ORIGINAL	4151
VML1	ice shelf			ORIGINAL	4151
VML2	ice shelf			ORIGINAL	4151

	Symbol Number 0656 Description gray very thin	ID Code MBJ065A0656 n dash line	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDA	RD SYMBOLO	GY)
	Symbol Number 0912 Description gray random	ID Code MBJ065A0912 line patt fill	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDA	RD SYMBOLO	GY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
✓ DNC	ice shelf				IHO S-52	LS(DASH,1, + AP(ICEAF	
BJ070						E	3J070
Area	Full Chart			√ Simp	olified		Area
1 1	Symbol Number 4151 Description basic blue rip	ID Code MBJ070A4151 uple jagged patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	pack ice				ORIGINAL	4151	
VML0	pack ice				ORIGINAL	4151	
VML1	pack ice				ORIGINAL	4151	
VML2	pack ice				ORIGINAL	4151	2 1000
BJ080							3J080
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4289 Description basic blue sti	ID Code MBJ080A4289 pple dot patt fill					
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID	
DTOP	polar ice				ORIGINAL	4289	
VML0	polar ice				ORIGINAL	4289	
VML1	polar ice				ORIGINAL	4289	
VML2	polar ice				ORIGINAL	4289	
BJ100						E	3J100
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0823 Description no data gray	ID Code MBJ100A0823 solid fill	(SIMPLIFIED SYMBOLOG	SY SAMI	E AS STANDA	RD SYMBOLO	GY)

AC(NODTA)

IHO S-52

✓ DNC

snow field/ice field

	Symbol Number 0656 ID Code MBJ100A0656 Description gray very thin dash line	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDAR	D SYMBOLOGY)
	Symbol Number 0912 ID Code MBJ100A0912 Description gray random line patt fill	(SIMPLIFIED SYMBOLOGY S	AME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Ori	ent Source	Source ID
✓ DNC	snow field/ice field		IHO S-52	LS(DASH,1,CHGRD) + AP(ICEARE04)
	Symbol Number 4180 ID Code MBJ100A4180 Description depth pale blue very thin short dash line			
Product	Feature Description Symbol Assignment Exp	ression Ori	ent Source	Source ID
DTOP	snow field/ice field		MIL-STD-2402	2J100A002
VML0	snow field/ice field		MIL-STD-2402	2J100A002
VML1	snow field/ice field		MIL-STD-2402	2J100A002
VML2	snow field/ice field		MIL-STD-2402	2J100A002
BJ110				BJ110
Area	Full Chart	✓	Simplified	Area
	Symbol Number 0822 ID Code MBJ110A0822 Description It brown solid fill	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Ori	ent Source	Source ID
✓ DNC	tundra		IHO S-52	AC(LANDA)
	Symbol Number 4066 ID Code MBJ110A4066 Description yellow-green variated stipple dot patt fill			
Product	Feature Description Symbol Assignment Exp	ression Ori	ent Source	Source ID
DTOP	tundra		ORIGINAL	4066
VML0	tundra		ORIGINAL	4066
VML1	tundra		ORIGINAL	4066
VML2	tundra		ORIGINAL	4066
CA010				CA010
Line	Full Chart	✓	Simplified	Line
	Symbol Number 0604 ID Code MCA010L0604 Description feature brown very thin solid line	(SIMPLIFIED SYMBOLOGY S	SAME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	ression Ori	ent Source	Source ID
✓ DNC	contour line (land)		IHO S-52	LS(SOLD,1,LANDF)

	Symbol Number 1306 ID Co Description red brown very very the	de MCA010L1306 nin dash line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	contour line (land) - supplementary 1/2	mcc<>103 AND hqc=3		MIL-STD-2402	3A010L003
VML0	contour line (land) - supplementary approx., carrying, form lines	hqc=4or13or20or21		MIL-STD-2402	3A010L003
VML2	contour line (land) - supplementary 1/2, approx, form lines	mcc<>103 AND hqc=3or4or13		MIL-STD-2402	3A010L003
_	Symbol Number 1307 ID Co Description red brown vy thin line	de MCA010L1307 w/ ticks on inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	contour line (land) - depression	hqc=5		MIL-STD-2402	3A010L004
UVM	contour line (land) - depression index	mcc<>103 AND hqc=5		MIL-STD-2402	3A010L004
VML2	contour line (land) - depression mound	mcc<>103 AND hqc=5or8		MIL-STD-2402	3A010L004
	Symbol Number 3026 ID Co Description red brown solid line	de MCA010L3026			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	contour line (land) - index, unknown	hqc=0or1		MIL-STD-2402	3A010L001
UVM	contour line (land) - index	mcc<>103 AND hqc=0or1		MIL-STD-2402	3A010L001
VML0	contour line (land) - carrying contour (coincident)	hqc=19		ORIGINAL	3026
VML1	contour line (land)			MIL-STD-2402	3A010L001
VML2	contour line (land) - index	mcc<>103 AND hqc=0or1		MIL-STD-2402	3A010L001
	Symbol Number 4304 ID Co Description red brown very very the	de MCA010L4304 nin solid line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	contour line (land) - intermediate	hqc=2		MIL-STD-2402	3A010L002
UVM	contour line (land) - intermediate	mcc<>103 AND hqc=2		MIL-STD-2402	3A010L002
VML0	contour line (land) - intermediate unknown	hqc=0or2		MIL-STD-2402	3A010L002
VML2	contour line (land) - intermediate	mcc≪103 AND hqc=2		MIL-STD-2402	3A010L002
	Symbol Number 4305 ID Co Description red brown very very the	de MCA010L4305 nin line w/ tick marks			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
FFD	contour line (land) - intermediate depression	hqc=6		MIL-STD-2402	3A010L005
UVM	contour line (land) - intermediate depression	mcc⇔103 AND hqc=6		MIL-STD-2402	3A010L005
VML0	contour line (land) - depression intermediate	hqc=6		MIL-STD-2402	3A010L005
VML2	contour line (land) - intermediate depression mound	mcc<>103 AND hqc=6or9		MIL-STD-2402	3A010L005

	Symbol Number 4306 ID Co Description red brown very thin lo	de MCA010L4306 ong dash line			
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID
UVM	contour line (land) - index approximate	mcc<>103 AND hqc=7		MIL-STD-2402	3A010L007
VML2	contour line (land) - index approximate	mcc<>103 AND hqc=7		MIL-STD-2402	3A010L007
	Symbol Number 4307 ID Co Description red brown very very the	de MCA010L4307 hin long dash Iine			
Product	Feature Description	Symbol Assignment Expres	orient Orient	Source	Source ID
UVM	contour line (land) - intermediate approximate	mcc<>103 AND hqc=12		MIL-STD-2402	3A010L008
VML0	contour line (land) - intermediate approximate	hqc=12		MIL-STD-2402	3A010L008
VML2	contour line (land) - intermediate approximate	mcc $<$ 103 AND hqc=12		MIL-STD-2402	3A010L008
	Symbol Number 4308 ID Co Description red brown very very the	de MCA010L4308 hin short dash Iine			
Product	Feature Description	Symbol Assignment Expres	orient Orient	Source	Source ID
UVM	contour line (land) - supplementary 1/4	mcc >103 AND hqc=14		MIL-STD-2402	3A010L021
VML2	contour line (land) - supplementary 1/4	mcc<>103 AND hqc=14		MIL-STD-2402	3A010L021
	G 1 11 1 1200 B C	1 2/01/01/07 1000			
	Description red brown vy vy thin			0	g ID
Product	Description red brown vy vy thin l	long dash line w/ ticks Symbol Assignment Expres	osion Orient	Source	Source ID
Product VML0	Description red brown vy vy thin leading to be seription contour line (land) - intermediate	long dash line w/ ticks	ssion Orient	Source ORIGINAL	Source ID 4309
	Description red brown vy vy thin leading to the contour line (land) - intermediate depression approx	Symbol Assignment Expres hqc=18 de MCA010L4310	osion Orient		
	Description red brown vy vy thin large lar	Symbol Assignment Expres hqc=18 de MCA010L4310			
VML0	Description red brown vy vy thin large contour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks		ORIGINAL	4309
VML0 Product	Description red brown vy vy thin leading to the contour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin leading to the contour line (land) - supplemental depression	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311		ORIGINAL	4309 Source ID
VML0 Product	Description red brown vy vy thin large contour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin large contour line (land) - supplemental depression Symbol Number 4311 ID Co	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311	ssion Orient	ORIGINAL Source ORIGINAL	4309 Source ID
Product VML0 Product VML0 Product UVM	Description red brown vy vy thin locations approx Symbol Number 4310 ID Conception red brown very vy thin locations approx Symbol Number 4310 ID Conception red brown very vy thin locations approx Feature Description Symbol Number 4311 ID Conception red brown very vy thin locations approx Symbol Number 4311 ID Conception red brown very thin locations approximately approximately red brown very thin locations approximately red brown very thin locations approximately red brown very vy thin	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311 olue solid line Symbol Assignment Expres mcc=103 AND hqc=0or1	ssion Orient	ORIGINAL Source ORIGINAL Source MIL-STD-2402	4309 Source ID 4310 Source ID 3A010L027
Product VML0 Product Product	Description red brown vy vy thin locations on tour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin locations of the land of the	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311 olue solid line Symbol Assignment Expres mcc=103 AND hqc=0or1	ssion Orient	ORIGINAL Source ORIGINAL Source	Source ID 4310 Source ID
Product VML0 Product VML0 Product UVM	Description red brown vy vy thin large contour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin large contour line (land) - supplemental depression Symbol Number 4311 ID Co Description 100% cyan very thin large contour line (snow\ice) - index unknown contour line (snow\ice) - index unknown	de MCA010L4311 olue solid line Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311 olue solid line Symbol Assignment Expres mcc=103 AND hqc=0or1 mcc=103 AND hqc=0or1 de MCA010L4312	ssion Orient	ORIGINAL Source ORIGINAL Source MIL-STD-2402	4309 Source ID 4310 Source ID 3A010L027
Product VML0 Product VML0 Product UVM	Description red brown vy vy thin location contour line (land) - intermediate depression approx Symbol Number 4310 ID Co Description red brown very vy thin contour line (land) - supplemental depression Symbol Number 4311 ID Co Description 100% cyan very thin location line (snow\ice) - index unknown contour line (snow\ice) - index unknown contour line (snow\ice) - index unknown l	de MCA010L4311 olue solid line Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311 olue solid line Symbol Assignment Expres mcc=103 AND hqc=0or1 mcc=103 AND hqc=0or1 de MCA010L4312	ssion Orient ssion Orient	ORIGINAL Source ORIGINAL Source MIL-STD-2402 MIL-STD-2402	4309 Source ID 4310 Source ID 3A010L027
Product VML0 Product VML0 Product UVM VML2	Description red brown vy vy thin large contour line (land) - intermediate depression approx Symbol Number 4310 ID Conception red brown very vy thin large contour line (land) - supplemental depression Symbol Number 4311 ID Conception 100% cyan very thin large contour line (snow\ice) - index unknown contour line (snow\ice) - index unknown contour line (snow\ice) - index unknown	Symbol Assignment Expres hqc=18 de MCA010L4310 n dash line w/ tick marks Symbol Assignment Expres hqc=22or23 de MCA010L4311 plue solid line Symbol Assignment Expres mcc=103 AND hqc=0or1 mcc=103 AND hqc=0or1 de MCA010L4312 very thin solid line	ssion Orient ssion Orient	ORIGINAL Source ORIGINAL Source MIL-STD-2402 MIL-STD-2402	Source ID 4310 Source ID 3A010L027 3A010L027

	Symbol Number 4313 ID Co Description 100% cyan blue very	de MCA010L4313 very thin dash line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	contour line (snow\ice) - supplementary 1/2	mcc=103 AND hqc=3		MIL-STD-2402	3A010L019
VML2	contour line (snow\ice) - supplementary 1/2, approx, form lines, approx	mcc=103 AND hqc=3or4or13		MIL-STD-2402	3A010L019
	Symbol Number 4314 ID Co Description 100% cyan blue vy th	de MCA010L4314 in line w/ ticks on inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	contour line (snow\ice) - index depression	mcc=103 AND hqc=5		MIL-STD-2402	3A010L031
VML2	contour line (snow\ice) - index depression mound	mcc=103 AND hqc=5or8		MIL-STD-2402	3A010L031
	Symbol Number 4315 ID Co Description 100% cyan blue very	de MCA010L4315 very thin line w/ ticks			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	contour line (snow\ice) - intermediate depression	mcc=103 AND hqc=6		ORIGINAL	4315
VML2	contour line (snow\ice) - intermediate depression mound	mcc=103 AND hqc=6or9		ORIGINAL	4315
	Symbol Number 4316 ID Co Description 100% cyan blue very	de MCA010L4316 thin long dash Iine			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	contour line (snow\ice) - index approximate	mcc=103 AND hqc=7		MIL-STD-2402	3A010L029
VML2	contour line (snow\ice) - index approximate	mcc=103 AND hqc=7		MIL-STD-2402	3A010L029
	Symbol Number 4317 ID Co Description 100% cyan blue very	de MCA010L4317 very thin long dash Iine			
Product	•		Orient	Source	Source ID
Product UVM	Description 100% cyan blue very	very thin long dash Iine	Orient	Source MIL-STD-2402	Source ID 3A010L030
	Description 100% cyan blue very Feature Description contour line (snow\ice) - intermediate	Symbol Assignment Expression	Orient		
UVM	Peature Description contour line (snow\ice) - intermediate approximate contour line (snow\ice) - intermediate approximate	Symbol Assignment Expression mcc=103 AND hqc=12 mcc=103 AND hqc=12 de MCA010L4318	Orient	MIL-STD-2402	3A010L030
UVM	Peature Description contour line (snow\ice) - intermediate approximate contour line (snow\ice) - intermediate approximate Symbol Number 4318 ID Co	Symbol Assignment Expression mcc=103 AND hqc=12 mcc=103 AND hqc=12 de MCA010L4318	Orient	MIL-STD-2402	3A010L030
UVM VML2	Peature Description contour line (snow\ice) - intermediate approximate contour line (snow\ice) - intermediate approximate Symbol Number 4318 ID Co Description 100% cyan blue very	Symbol Assignment Expression mcc=103 AND hqc=12 mcc=103 AND hqc=12 de MCA010L4318 very thin short dash line		MIL-STD-2402 MIL-STD-2402	3A010L030 3A010L030

CA030					CA0
Point	Full Chart		√ Sim	plified	Po
0	Symbol Number 0078 Description black sm cir	ID Code MCA030P0078	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Orient	Source	Source ID
✓ DNC	spot elevation			IHO S-52	SY(POSGEN04)
● ±	Symbol Number 1011 Description black sm fille	ID Code MCA030P1011 ed cir beside +-			
Product	Feature Description	Symbol Assignment Expre	ssion Orient	Source	Source ID
DTOP	spot elevation - not accurate	ela⇔1		MIL-STD-2402	3A030P006
FFD	spot elevation - not accurate	ela≪1		MIL-STD-2402	3A030P006
UVM	spot elevation - not accurate	ela≪1		MIL-STD-2402	3A030P006
VML0	spot elevation - not accurate	ela<>1		MIL-STD-2402	3A030P006
VML1	spot elevation - not accurate	ela<>1		MIL-STD-2402	3A030P006
VML2	spot elevation - not accurate	ela<>1		MIL-STD-2402	3A030P006
•	Symbol Number 2243 Description black sm fille	ID Code MCA030P2243			
Product	Feature Description	Symbol Assignment Expre	ssion Orient	Source	Source ID
DTOP	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
FFD	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
UVM	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
VML0	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
VML1	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
VML2	spot elevation - accurate	ela=1		MIL-STD-2402	3A030P001
CA035					CA0
Point	Full Chart		√ Sim	plified	Po
•	Symbol Number 2245 Description basic blue sm	ID Code MCA035P2245 n filled cir			
Product	Feature Description	Symbol Assignment Expre	ession Orient	Source	Source ID
VML0	inland water elevation			ORIGINAL	2245

DA005						DA005
Area	Full Chart			√ Sim	plified	Area
\ \ \	Symbol Number 4124 ID Conception depth gray land cover	ode MDA005A4124 r/ripple patt fill				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	asphalt lake				ORIGINAL	4124
UVM	asphalt lake				ORIGINAL	4124
VML1	asphalt lake				ORIGINAL	4124
VML2	asphalt lake				ORIGINAL	4124
DA010						DA010
Area	Full Chart			√ Sim	plified	Area
	Symbol Number 0822 ID Co Description It brown solid fill	ode MDA010A0822	(SIMPLIFIED SYMBOLO	OGY SAM	IE AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
✓ DNC	ground surface element				IHO S-52	AC(LANDA)
	Symbol Number 4003 ID Control Description beige solid fill	ode MDA010A4003				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
UVM	ground surface element - not rock, not lava, not sand	mcc<>8and<>52and<>4	6and<>84and<>88		MIL-STD-2402	4A010A001
VML0	ground surface element - not lava, not sand	smc<>52and<>88			MIL-STD-2402	4A010A001
VML1	ground surface element - not rock, not lava, not sand	mcc<>8and<>52and<>8	88and<>46		MIL-STD-2402	4A010A001
VML2	ground surface element - not rock, not lava, not sand	mcc<>8and<>52and<>4	16and≪88		MIL-STD-2402	4A010A001
• • •	Symbol Number 4005 ID Control Description beige stiple dot patt f	ode MDA010A4005				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
DTOP	ground surface element - not rocky	smc<>84			MIL-STD-2402	4A010A003
	Symbol Number 4034 ID Conception brown heavy mixed states	ode MDA010A4034 stipple dot patt fill				
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID
UVM	ground surface element - boulders, gravel, rock	mcc=46or84or8			MIL-STD-2402	4A010A002
	8-11-1-1-1-1					
VML1 VML2	ground surface element - boulders, grav ground surface element - boulders, grav				MIL-STD-2402 MIL-STD-2402	4A010A002 4A010A002

1 1	Symbol Number 4108 ID C Description It gray land cover/rip	Code MDA010A4108 pple patt fill			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
UVM	ground surface element - lava	mcc=52		ORIGINAL	4108
VML0	ground surface element - lava	smc=52		ORIGINAL	4108
VML1	ground surface element - lava	mcc=52		ORIGINAL	4108
VML2	ground surface element - lava	mcc=52		ORIGINAL	4108
	Symbol Number 4248 ID C Description It gray stipple dot pa	Code MDA010A4248 utt fill			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DTOP	ground surface element - rocky	smc=84		MIL-STD-2402	4A010A002
	Symbol Number 1851 ID C Description beige thin short dash	Code MDA010A1851			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
VITD	ground surface element - sands	stp=5or6or7or8or9		ORIGINAL	1851
	Symbol Number 4220 ID C Description med-beige thin solid	Code MDA010A4220			
* . *	Symbol Number 4005 ID C Description beige stiple dot patt	Code MDA010A4005 fill			
			Orient	Source	Source ID
* . *	Description beige stiple dot patt	fill	Orient	Source MIL-STD-2402	Source ID 4A010A003
Product	Description beige stiple dot patt Feature Description	fill Symbol Assignment Expression	Orient		
Product UVM	Description beige stiple dot patt Feature Description ground surface element - sand	Symbol Assignment Expression mcc=88	Orient	MIL-STD-2402	4A010A003
Product UVM VML0	Description beige stiple dot patt Feature Description ground surface element - sand ground surface element - sand	Symbol Assignment Expression mcc=88 smc=88	Orient	MIL-STD-2402 MIL-STD-2402	4A010A003 4A010A003
Product UVM VML0 VML1	Description beige stiple dot patt Feature Description ground surface element - sand	Symbol Assignment Expression mcc=88 smc=88 mcc=88	Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	4A010A003 4A010A003 4A010A003
Product UVM VML0 VML1	Description beige stiple dot patt Feature Description ground surface element - sand	Symbol Assignment Expression mcc=88 smc=88 mcc=88 mcc=88	Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	4A010A003 4A010A003 4A010A003
Product UVM VML0 VML1 VML2	Description beige stiple dot patt Feature Description ground surface element - sand Description beige solid line	Symbol Assignment Expression mcc=88 smc=88 mcc=88 mcc=88		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	4A010A003 4A010A003 4A010A003 4A010A003
Product UVM VML0 VML1 VML2	Description beige stiple dot patt Feature Description ground surface element - sand Symbol Number 4236 ID C Description beige solid line Feature Description ground surface element - silts, clays, evaporites, other	Symbol Assignment Expression mcc=88 smc=88 mcc=88 mcc=88 Code MDA010A4236 Symbol Assignment Expression stp<1and<2and<3and<4and<5and<6and<7and<		MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source	4A010A003 4A010A003 4A010A003 4A010A003
Product UVM VML0 VML1 VML2	Description beige stiple dot patt Feature Description ground surface element - sand Symbol Number 4236 ID C Description beige solid line Feature Description ground surface element - silts, clays, evaporites, other Symbol Number 4259 ID C	Symbol Assignment Expression mcc=88 smc=88 mcc=88 mcc=88 Code MDA010A4236 Symbol Assignment Expression stp > 1 and > 2 and > 3 and > 4 and > 5 and > 6 and > 7 and > 8 and > 9	Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 Source	4A010A003 4A010A003 4A010A003 4A010A003

DA020						D	A020
Area	Full Chart			√ Sim _l	olified		Area
	Symbol Number 4003 Description beige solid file	ID Code MDA020A4003					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	barren ground				ORIGINAL	4003	
	Symbol Number 4201 Description depth gray th	ID Code MDA020A4201 in dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VITD	barren ground				ORIGINAL	4201	
DB010						D	B010
Line	Full Chart			√ Sim _l	olified		Line
	Symbol Number 3146 Description black solid tri	ID Code MDB010L3146 iangle line patt					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
UVM	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
VITD	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
VML0	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
VML1	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
VML2	bluff/cliff/escarpment				MIL-STD-2402	4B010L002	
DB030						D	B030
Point	Full Chart			√ Simp	olified		Point
<u></u>	Symbol Number 2247 Description black diag lin	ID Code MDB030P2247 ne w/ "L" on top					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	cave				MIL-STD-2402	4B030P001	
UVM	cave				MIL-STD-2402	4B030P001	
VALUE 1	cave				MIL-STD-2402	4B030P001	
VML1 VML2	cave				MIL-STD-2402	4B030P001	

Area	Full Chart			√ Simp	olified		Area
	G 1 137 1 2117	ID C. 1 - MDD02042117					
	Symbol Number 3117 Description black thin das	ID Code MDB030A3117 sh line					
××	Symbol Number 4249	ID Code MDB030A4249					
× ×	Description black x patt fi	111					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	cave				ORIGINAL	3117 4249	
DB060						DI	B060
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 1656 Description 100% cyan bl	ID Code MDB060L1656 lue very thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	crevice/crevasse - snow/ice	mcc=103			MIL-STD-2402	4B060L002	
VML1	crevice/crevasse - snow/ice	mcc=103			MIL-STD-2402	4B060L002	
VML2	crevice/crevasse - snow/ice	mcc=103			MIL-STD-2402	4B060L002	
	Symbol Number 3024 Description red brown ver	ID Code MDB060L3024 ry thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	crevice/crevasse - earthen	mcc=0or30			MIL-STD-2402	4B060L001	
VML1	crevice/crevasse - earthen	mcc=0or30			MIL-STD-2402	4B060L001	
VML2	crevice/crevasse - earthen	mcc=0or30			MIL-STD-2402	4B060L001	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4030 Description brown left dia	ID Code MDB060A4030 ag thin line patt fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	crevice/crevasse				MIL-STD-2402	4B060A002	
VML2	crevice/crevasse				MIL-STD-2402	4B060A002	
DB070						DI	B070
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 1308	ID Code MDB070L1308					
	Description black very thi	in line w/ ticks					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	cut				MIL-STD-2402	4B071L002	
UVM	cut				MIL-STD-2402	4B071L002	
VITD	cut				MIL-STD-2402	4B071L002	
VML1	cut				MIL-STD-2402	4B071L002	
VML2	cut				MIL-STD-2402	4B071L002	

Symbol Number 1308 ID Code MDB080L1308 Description black very thin line w/ ticks	Area
Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP depression MIL-STD-2402 4B071L002 VML0 depression MIL-STD-2402 4B071L002 Area Full Chart ✓ Simplified Symbol Number 1509 ID Code MDB080A1509 Description black thin solid line ticks on inside Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
DTOP depression MIL-STD-2402 4B071L002 VML0 depression MIL-STD-2402 4B071L002 Area Full Chart ✓ Simplified Symbol Number 1509 ID Code MDB080A1509 Description black thin solid line ticks on inside Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
VML0 depression MIL-STD-2402 4B071L002 Area Full Chart ✓ Simplified Symbol Number 1509 ID Code MDB080A1509 Description black thin solid line ticks on inside Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression Orient Source Source ID MIL-STD-2402 4B080A001 DB090 ✓ Simplified Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Orient Source Source ID MIL-STD-2402 4B090L012 Product Feature Description Symbol Assignment Expression Orient Source embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
Area Full Chart Symbol Number 1509 ID Code MDB080A1509 Description black thin solid line ticks on inside Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
Symbol Number 1509 ID Code MDB080A1509 Description black thin solid line ticks on inside Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
Product Feature Description Symbol Assignment Expression Orient Source Source ID VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012)B090
VITD depression MIL-STD-2402 4B080A001 DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012)B090
DB090 Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012)B090
Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012)B090
Line Full Chart ✓ Simplified Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	B090
Symbol Number 1309 ID Code MDB090L1309 Description black double lines w/ ticks pointing out Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
Product Feature Description Symbol Assignment Expression Orient Source Source ID DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	Line
DTOP embankment/fill MIL-STD-2402 4B090L012 UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
UVM embankment/fill MIL-STD-2402 4B090L012 VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
VITD embankment/fill MIL-STD-2402 4B090L012 VML0 embankment/fill MIL-STD-2402 4B090L012	
VML0 embankment/fill MIL-STD-2402 4B090L012	
VML1 embankment/fill MIL-STD-2402 4B090L012	
VDII 2 1 1 1/511 VIII VDII VDII VDII VDII VDII VDII VD	
VML2 embankment/fill MIL-STD-2402 4B090L012	
Symbol Number 3082 ID Code MDB090L3082 Description gray very thin solid line (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY SAME SYMBOLOGY SYM	GY)
Product Feature Description Symbol Assignment Expression Orient Source Source ID	
✓ DNC embankment/fill IHO S-52 LS(SOLD,1,	CHGRD)
Area Full Chart ✓ Simplified	Area
Symbol Number 0913 ID Code MDB090A0913 Description feature brown solid filled circle patt fill (SIMPLIFIED SYMBOLOGY SAME AS STANDARD SYMBOLOGY SAME SYMBOLOGY SYMBOLOGY SYMBOLOGY SYMBOLOGY SYMBOLOGY SYMBOLOGY	
Product Feature Description Symbol Assignment Expression Orient Source Source ID	GY)
✓ DNC embankment/fill ORIGINAL 0913	GY)

	AFFEI	ADIA A				
سس	Symbol Number 1516 ID Code MDB090A1516 Description black thin line outward ticks					
Product	Feature Description Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	embankment/fill			MIL-STD-2402	4B090A002	
VML2	embankment/fill			MIL-STD-2402	4B090A002	
DB100					D	B100
Line	Full Chart		√ Sim	plified		Line
	Symbol Number 3003 ID Code MDB100L3003 Description tan very thin solid line					
Product	Feature Description Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	esker			MIL-STD-2402	4B100L001	
VML1	esker			MIL-STD-2402	4B100L001	
VML2	esker			MIL-STD-2402	4B100L001	
DB110					D	B110
Line	Full Chart		√ Sim	plified		Line
	Symbol Number 3026 ID Code MDB110L3026 Description red brown solid line					
Product	Feature Description Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	fault			MIL-STD-2402	4B110L001	
UVM	fault			MIL-STD-2402	4B110L001	
VML0	fault			MIL-STD-2402	4B110L001	
VML1	fault			MIL-STD-2402	4B110L001	
VML2	fault			MIL-STD-2402	4B110L001	
DB115					D	B115
Point	Full Chart		√ Sim	plified		Point
5	Symbol Number 2248 ID Code MDB115P2248 Description sm brown filled cir w/ tail below					
Product	Feature Description Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	geothermal feature			MIL-STD-2402	4B115P001	
VML1	geothermal feature			MIL-STD-2402	4B115P001	
VML2	geothermal feature			MIL-STD-2402	4B115P001	

DB145						D	B145
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 1403 ID Co Description black line w/ open di	ode MDB145L1403 amonds					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	miscellaneous obstacle				MIL-STD-2402	4B145L001	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 3112 ID Co Description black thin solid line	ode MDB145A3112					
× × ×	Symbol Number 4249 ID Co	ode MDB145A4249					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	miscellaneous obstacle				MIL-STD-2402	4B145A001*	
DB150						D	B150
Point	Full Chart			√ Sim	plified		Point
)(Symbol Number 2249 ID Co Description black)(symbol	ode MDB150P2249					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	mountain pass	<u> </u>			MIL-STD-2402	4B150P001	
VML1	mountain pass				MIL-STD-2402	4B150P001	
VML2	mountain pass				MIL-STD-2402	4B150P001	
DB160						D	B160
Point	Full Chart			√ Sim	plified		Point
 	Symbol Number 2250 ID Co Description brown 6 pt asterisk w	ode MDB160P2250					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
DTOP	rock strata/rock formation				MIL-STD-2402	4B160P001	
VML1	rock strata/rock formation				MIL-STD-2402	4B160P001	
VML2	rock strata/rock formation				MIL-STD-2402	4B160P001	
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3017 ID Co Description brown thin dash line	ode MDB160L3017					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
VML0	rock strata/rock formation				ORIGINAL	3017	
		Symbol Assignment Exp	oression	Orient			

Area	Full Chart		√ s	implified	Area
	Symbol Number 4028 Description brown horizon	ID Code MDB160A4028 tal lines patt fill			
Product	Feature Description	Symbol Assignment Exp	ression Orien	nt Source	Source ID
DTOP	rock strata/rock formation			ORIGINAL	4028
VML2	rock strata/rock formation			ORIGINAL	4028
DB170					DB170
Area	Full Chart		√ s	implified	Area
• •	Symbol Number 0913 Description feature brown	ID Code MDB170A0913 solid filled circle patt fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression Orien	nt Source	Source ID
✓ DNC	sand dune/sand hills			MIL-STD-2402	4B170A009
**************************************	Symbol Number 4008 Description beige sand dun	ID Code MDB170A4008 e default			
Product	Feature Description	Symbol Assignment Exp	ression Orien	nt Source	Source ID
DTOP	sand dune/sand hills - unknown	ssc=0		MIL-STD-2402	4B170A003
UVM	sand dune/sand hills - unknown	ssc=0		MIL-STD-2402	4B170A003
VML1	sand dune/sand hills - unknown	ssc=0		MIL-STD-2402	4B170A003
VML2	sand dune/sand hills - unknown	ssc=0		MIL-STD-2402	4B170A003
* * * * * * * * * * * * * * * * * * *	Symbol Number 4009 Description beige sand dun	ID Code MDB170A4009			
19211				_	
Product	Feature Description	Symbol Assignment Exp	ression Ories		Source ID
DTOP	sand dune/sand hills - crescent	ssc=22		MIL-STD-2402	4B170A008
UVM	sand dune/sand hills - crescent	ssc=22		MIL-STD-2402	4B170A008
VML1	sand dune/sand hills - crescent	ssc=22		MIL-STD-2402	4B170A008
VML2	sand dune/sand hills - crescent	ssc=22		MIL-STD-2402	4B170A008
* * * * * * * * * * * * * * * * * * *	Symbol Number 4010 Description beige sand dun	ID Code MDB170A4010 e lateral			
Product	Feature Description	Symbol Assignment Exp	ression Orien	nt Source	Source ID
DTOP	sand dune/sand hills - lateral	ssc=26		MIL-STD-2402	4B170A001
UVM	sand dune/sand hills - lateral	ssc=26		MIL-STD-2402	4B170A001
VML1	sand dune/sand hills - lateral	ssc=26		MIL-STD-2402	4B170A001
VML2	sand dune/sand hills - lateral	ssc=26		MIL-STD-2402	4B170A001
N N N N N N N N N N N N N N N N N N N	Symbol Number 4011 Description beige sand dun	ID Code MDB170A4011 e mound			
Product	Feature Description	Symbol Assignment Exp	ression Orien	nt Source	Source ID
DTOP	sand dune/sand hills - mounds	ssc=27		MIL-STD-2402	4B170A006
UVM	sand dune/sand hills - mounds	ssc=27		MIL-STD-2402	4B170A006
VML1	sand dune/sand hills - mounds	ssc=27		MIL-STD-2402	4B170A006
VML2	sand dune/sand hills - mounds	ssc=27		MIL-STD-2402	4B170A006

	Symbol Number 4012	ID Code MDB170A4012					
	Description beige sand dunc						
2** 2*							
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	sand dune/sand hills - ripple	ssc=28			MIL-STD-2402	4B170A004	
UVM	sand dune/sand hills - ripple	ssc=28			MIL-STD-2402	4B170A004	
VML1	sand dune/sand hills - ripple	ssc=28			MIL-STD-2402	4B170A004	
VML2	sand dune/sand hills - ripple	ssc=28			MIL-STD-2402	4B170A004	
* * *	Symbol Number 4013	ID Code MDB170A4013					
261.08	Description beige sand dune						
***	Description beige sand duni	o star					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	sand dune/sand hills - star	ssc=29			MIL-STD-2402	4B170A005	
UVM	sand dune/sand hills - star	ssc=29			MIL-STD-2402	4B170A005	
VML1	sand dune/sand hills - star	ssc=29			MIL-STD-2402	4B170A005	
VML2	sand dune/sand hills - star	ssc=29			MIL-STD-2402	4B170A005	
	Symbol Number 4014	ID Code MDB170A4014					
	Description beige sand dune	e transverse					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	sand dune/sand hills - transverse	ssc=30	10331011	Official	MIL-STD-2402	4B170A007	
UVM	sand dune/sand hills - transverse	ssc=30			MIL-STD-2402	4B170A007 4B170A007	
VML1	sand dune/sand hills - transverse	ssc=30			MIL-STD-2402	4B170A007	
VML2	sand dune/sand hills - transverse	ssc=30			MIL-STD-2402	4B170A007	
VIVIDZ	sand dane/sand mms transverse	330 30			WILL 51D 2402	4017011007	
DB180						D	B180
						D	
DB180 Point	Full Chart			√ Simp	blified	D	B180 Point
				√ Simp	plified	D	
	Symbol Number 2251	ID Code MDB180P2251		√ Simp	blified	D	
				√ Simp	blified	D	
	Symbol Number 2251 Description sm brown open	cir w/ eight tics outside	ression	✓ Simp		Source ID	
Product	Symbol Number 2251 Description sm brown open Feature Description		ression		Source	Source ID	
Product DTOP	Symbol Number 2251 Description sm brown open	cir w/ eight tics outside	ression				
Product	Symbol Number 2251 Description sm brown open Feature Description volcano	cir w/ eight tics outside	ression		Source MIL-STD-2402	Source ID 4B180P001	
Product DTOP	Symbol Number 2251 Description sm brown open Feature Description volcano	cir w/ eight tics outside	ression		Source MIL-STD-2402	Source ID 4B180P001 4B180P001	
Product DTOP VML2 DB190	Symbol Number 2251 Description sm brown open Feature Description volcano volcano	cir w/ eight tics outside	ression	Orient	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2	Symbol Number 2251 Description sm brown open Feature Description volcano	cir w/ eight tics outside	ression		Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point
Product DTOP VML2 DB190	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart	cir w/ eight tics outside Symbol Assignment Exp	ression	Orient	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart Symbol Number 3112	cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112	ression	Orient	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart	cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112	ression	Orient	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart Symbol Number 3112 Description black thin solid	Cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112 line		Orient	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190 Line	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart Symbol Number 3112	cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112		Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190 Line Product	Symbol Number 2251 Description sm brown open Feature Description volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description	Cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112 line		Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190 Line Product VITD	Symbol Number 2251 Description sm brown open Feature Description volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description volcanic dike	Cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112 line Symbol Assignment Exp		Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190 Line Product VITD	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description volcanic dike Symbol Number 3168	Cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112 line Symbol Assignment Exp ID Code MDB190L3168		Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source	Source ID 4B180P001 4B180P001	Point B190
Product DTOP VML2 DB190 Line Product VITD	Symbol Number 2251 Description sm brown open Feature Description volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description volcanic dike Symbol Number 3168 Description outline It brown	ID Code MDB190L3112 line Symbol Assignment Exp ID Code MDB190L3112 line ID Code MDB190L3168 a thin dotted line	ression	Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source MIL-STD-2402	Source ID 4B180P001 4B180P001 D Source ID 4B190L001	Point B190
Product DTOP VML2 DB190 Line Product VITD	Symbol Number 2251 Description sm brown open Feature Description volcano volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description volcanic dike Symbol Number 3168 Description outline It brown Feature Description	Cir w/ eight tics outside Symbol Assignment Exp ID Code MDB190L3112 line Symbol Assignment Exp ID Code MDB190L3168	ression	Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source MIL-STD-2402 Source	Source ID 4B180P001 4B180P001 D Source ID 4B190L001	Point B190
Product DTOP VML2 DB190 Line Product VITD	Symbol Number 2251 Description sm brown open Feature Description volcano Full Chart Symbol Number 3112 Description black thin solid Feature Description volcanic dike Symbol Number 3168 Description outline It brown	ID Code MDB190L3112 line Symbol Assignment Exp ID Code MDB190L3112 line ID Code MDB190L3168 a thin dotted line	ression	Orient ✓ Simp	Source MIL-STD-2402 MIL-STD-2402 Diffied Source MIL-STD-2402	Source ID 4B180P001 4B180P001 D Source ID 4B190L001	Point B190

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Line	Full Chart		√ Simp	lified		Lir
	Symbol Number 1406 Description brown thin	ID Code MDB200L1406 solid line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
VITD	gully/gorge			ORIGINAL	1406	
Area	Full Chart		√ Simp	lified		Are
	Symbol Number 4027 Description brown wid	ID Code MDB200A4027 e left diag patt fill				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	gully/gorge			ORIGINAL	4027	
	Symbol Number 1406 Description brown thin	ID Code MDB200A1406 solid line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
VITD	gully/gorge			ORIGINAL	1406	
EA010					E	A01
Area	Full Chart		√ Simp	lified		Ar
	Symbol Number 4067 Description yellow-gre	ID Code MEA010A4067 en dot patt fill				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	cropland			MIL-STD-2402	5A010A003	
UVM	cropland			MIL-STD-2402	5A010A003	
VITD	cropland			ORIGINAL	4067	
VML0	cropland			MIL-STD-2402	5A010A003	
VML1	cropland			MIL-STD-2402	5A010A003	
VML2	cropland			MIL-STD-2402	5A010A003	
						A 0.0
EA020					E	AU2
	Full Chart		√ Simp	lified	E	
	Symbol Number 3036	ID Code MEA020L3036 een thin line w/rectangles one side	√ Simp	lified	E	
	Symbol Number 3036			lified Source	Source ID	Li
ine	Symbol Number 3036 Description very dk gre	een thin line w/rectangles one side				
Product	Symbol Number 3036 Description very dk green Feature Description	een thin line w/rectangles one side		Source	Source ID	
Product DTOP	Symbol Number 3036 Description very dk gro Feature Description hedgerow	een thin line w/rectangles one side		Source MIL-STD-2402	Source ID 5A020L001	
DTOP UVM	Symbol Number 3036 Description very dk gro Feature Description hedgerow hedgerow	een thin line w/rectangles one side		Source MIL-STD-2402 MIL-STD-2402	Source ID 5A020L001 5A020L001	

				EA030
Area	Full Chart	√ Simp	plified	Are
% % , % ; % %	Symbol Number 0914 ID Code MEA030A0914 Description feature brown cirs patt fill	(SIMPLIFIED SYMBOLOGY SAM	IE AS STANDARI	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
√ DNC	nursery		ORIGINAL	0914
	Symbol Number 4230 ID Code MEA030A4230 Description yellow-green squares in grid patt fill			
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
DTOP	nursery		MIL-STD-2402	5A030A001
UVM	nursery		MIL-STD-2402	5A030A001
VML0	nursery		MIL-STD-2402	5A030A001
VML2	nursery		MIL-STD-2402	5A030A001
Area	Full Chart	✓ Simp	plified	Are
Area	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill	✓ Simp	plified	Are
Area	Symbol Number 4051 ID Code MEA040A4051			Source ID
: : :	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill			
Product	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex		Source	Source ID
Product DTOP FFD UVM	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402	Source ID 5A040A005
Product DTOP FFD UVM VITD	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL	Source ID 5A040A005 5A040A005 5A040A005 4051
Product DTOP FFD UVM VITD VML0	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005
Product DTOP FFD UVM VITD VML0 VML1	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Exorchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402 MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005 5A040A005
Product DTOP FFD UVM VITD VML0	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005
Product DTOP FFD UVM VITD VML0 VML1	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Exorchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005 5A040A005 5A040A005
Product DTOP FFD UVM VITD VML0 VML1	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation Symbol Number 0624 ID Code MEA040A0624	pression Orient	Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005 5A040A005 5A040A005 D SYMBOLOGY)
Product DTOP FFD UVM VITD VML0 VML1 VML2	Symbol Number 4051 ID Code MEA040A4051 Description very dk green squares in grid patt fill Feature Description Symbol Assignment Ex orchard/plantation Symbol Number 0624 ID Code MEA040A0624 Description feature brown very thin dash line Symbol Number 0915 ID Code MEA040A0915	(SIMPLIFIED SYMBOLOGY SAM	Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 5A040A005 5A040A005 5A040A005 4051 5A040A005 5A040A005 5A040A005

EA050				EA050
Area	Full Chart	√ Sin	nplified	Area
	Symbol Number 4054 ID Code MEA050A4054 Description very dk green offset grid/dot patt fill			
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
DTOP	vineyards		MIL-STD-2402	5A050A001
UVM	vineyards		MIL-STD-2402	5A050A001
VITD	vineyards		ORIGINAL	4054
VML0	vineyards		MIL-STD-2402	5A050A001
VML1	vineyards		MIL-STD-2402	5A050A001
VML2	vineyards		MIL-STD-2402	5A050A001
	Symbol Number 0624 ID Code MEA050A0624 Description feature brown very thin dash line	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
争 争 争	Symbol Number 0915 ID Code MEA050A0915 Description feature brown tree side-view patt fill	(SIMPLIFIED SYMBOLOGY SAM	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Assignment Ex	pression Orient	Source	Source ID
✓ DNC	vineyards		IHO S-52	LS(DASH,1,LANDF)
				+ AP(VEGATN03)
EA055				+ AP(VEGATN03) EA055
EA055 Area	Full Chart	√ Sin	nplified	
	Full Chart Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill	✓ Sin	nplified	EA055
Area 	Symbol Number 4054 ID Code MEA055A4054			EA055
Area 	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill			EA055
Area Product	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Ex		Source	EA055 Area
Area Product UVM	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Ex		Source MIL-STD-2402	Source ID 5A050A001
Area Product UVM EB010	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops	pression Orient	Source MIL-STD-2402	Source ID 5A050A001
Area Product UVM EB010 Area	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068	pression Orient ✓ Sin	Source MIL-STD-2402	Source ID 5A050A001
Area Product UVM EB010 Area	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068 Description yellow-green grass patt fill	pression Orient ✓ Sin	Source MIL-STD-2402	Source ID 5A050A001 EB010 Area
Area Product UVM EB010 Area Product	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068 Description yellow-green grass patt fill Feature Description Symbol Assignment Exhops	pression Orient ✓ Sin	Source MIL-STD-2402 pplified Source	Source ID 5A050A001 EB010 Area Source ID
Area Product UVM EB010 Area Product DTOP UVM VITD	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068 Description yellow-green grass patt fill Feature Description Symbol Assignment Exhops grassland grassland grassland	pression Orient ✓ Sin	Source MIL-STD-2402 pplified Source MIL-STD-2402 MIL-STD-2402 ORIGINAL	Source ID 5A050A001 EB010 Area Source ID 5B010A001 5B010A001 4068
Area Product UVM EB010 Area Product DTOP UVM VITD VML0	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068 Description yellow-green grass patt fill Feature Description Symbol Assignment Exhops grassland grassland grassland grassland	pression Orient ✓ Sin	Source MIL-STD-2402 Inplified Source MIL-STD-2402 MIL-STD-2402 ORIGINAL MIL-STD-2402	Source ID 5A050A001 EB010 Are: Source ID 5B010A001 5B010A001 4068 5B010A001
Area Product UVM EB010 Area Product DTOP UVM VITD	Symbol Number 4054 ID Code MEA055A4054 Description very dk green offset grid/dot patt fill Feature Description Symbol Assignment Exhops Full Chart Symbol Number 4068 ID Code MEB010A4068 Description yellow-green grass patt fill Feature Description Symbol Assignment Exhops grassland grassland grassland	pression Orient ✓ Sin	Source MIL-STD-2402 pplified Source MIL-STD-2402 MIL-STD-2402 ORIGINAL	EA058 Are Source ID 5A050A001 EB010 Are Source ID 5B010A001 5B010A001 4068

EB020			EB020
Area	Full Chart	✓ Simplified	Area
* : *	Symbol Number 4063 ID Code MEB020A4063 Description yellow-green stipple dot patt fill		
Product	Feature Description Symbol Assignment Expre	ession Orient Source	Source ID
DTOP	scrub/brush	MIL-STD-2402	5B020A001
UVM	scrub/brush	MIL-STD-2402	5B020A001
VITD	scrub/brush	ORIGINAL	4063
VML0	scrub/brush	MIL-STD-2402	5B020A001
VML2	scrub/brush	MIL-STD-2402	5B020A001
EC010			EC010
Area	Full Chart	✓ Simplified	Area
d d	Symbol Number 4052 ID Code MEC010A4052 Description green bamboo patt fill		
Product	Feature Description Symbol Assignment Expre	ession Orient Source	Source ID
DTOP	bamboo/cane	MIL-STD-2402	5C010A001
UVM	bamboo/cane	MIL-STD-2402	5C010A001
VITD	bamboo/cane	ORIGINAL	4052
VML0	bamboo/cane	MIL-STD-2402	5C010A001
VML2	bamboo/cane	MIL-STD-2402	5C010A001
EC020			EC020
Point	Full Chart	√ Simplified	Point
	Symbol Number 2252 ID Code MEC020P2252 Description green palm tree symbol		
Product	Feature Description Symbol Assignment Expre	ession Orient Source	Source ID
DTOP	oasis	MIL-STD-2402	5C020P002
VML1	oasis	MIL-STD-2402	5C020P002
VML2	oasis	MIL-STD-2402	5C020P002
Area	Full Chart	✓ Simplified	Area
*	Symbol Number 4170 ID Code MEC020A4170 Description It blue mixed stipple dot patt fill		
Product	Feature Description Symbol Assignment Expre	ession Orient Source	Source ID
DTOP	oasis	ORIGINAL	4170
VML0	oasis	ORIGINAL	4170
VIVILO			

EC030						E	030
Point	Full Chart			√ Sim	plified		Point
†	Symbol Number 0079 Description feature brown	ID Code MEC030P0079 side view of stylised tree	(SIMPLIFIED SYMBOLO	DGY SAM	IE AS STANDAR	D SYMBOLOGY	Y)
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID	
✓ DNC	trees				IHO S-52	SY(TREPNT04	4)
\triangle	Symbol Number 2253 Description green triangle t	ID Code MEC030P2253 ree symbol					
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID	
VML2	trees				MIL-STD-2402	5C030P001	
Line	Full Chart			√ Sim	plified		Line
	Symbol Number 3031 Description very dk green t	ID Code MEC030L3031 hin solid line					
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID	
VML1	trees				MIL-STD-2402	5C030L001	
Area	Full Chart			√ Sim	plified		Area
	Symbol Number 0822 Description lt brown solid to	ID Code MEC030A0822					
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID	
DTOP	trees - clearing	veg=52			ORIGINAL	0822	
VITD	trees - forest clearing	veg=52			ORIGINAL	0822	
2(35) 2(35)	Symbol Number 1605 Description yellow-green to	ID Code MEC030A1605 ree-top patt fill					
Product	Feature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID	
Troduct					MIL-STD-2402	5C030A015	
DTOP	trees - deciduous, unknown	veg=0or24					
	trees - deciduous, unknown trees - deciduous, unknown	veg=0or24 tre=0or1			MIL-STD-2402	5C030A015	
DTOP	· · · · · · · · · · · · · · · · · · ·	tre=0or1				5C030A015 5C030A015	
DTOP FFD	trees - deciduous, unknown	tre=0or1 n tre=0or1or3			MIL-STD-2402		
DTOP FFD UVM	trees - deciduous, unknown trees - deciduous, mixed, unknow	tre=0or1 n tre=0or1or3 d veg=0or24or50			MIL-STD-2402 MIL-STD-2402	5C030A015	
DTOP FFD UVM VITD	trees - deciduous, unknown trees - deciduous, mixed, unknown trees - unknown, deciduous, mixed	tre=0or1 n tre=0or1or3 d veg=0or24or50 d, other veg=0or24or50or999			MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	5C030A015 5C030A015	

Δ., Δ., Δ	Symbol Number 1606	ID Code MEC030A1606			
A. A. A	Description yellow-green	n triangle tree patt fill			
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
DTOP	trees - evergreen, mixed	veg=25or50		MIL-STD-2402	5C030A002
FFD	trees - evergreen, mixed	tre=2or3		MIL-STD-2402	5C030A002
UVM	trees - evergreen	tre=2		MIL-STD-2402	5C030A002
VITD	trees - evergreen	veg=25		MIL-STD-2402	5C030A002
VML0		lm, filao, veg=11or12or17or18or25	5or29or38	MIL-STD-2402	5C030A002
VML1	trees - casuarina, coniferous, pa eucalyptus, cypress	lm, filao, veg=11or12or17or18or29	Por38	MIL-STD-2402	5C030A002
VML2	trees - casuarina, coniferous, pa evergreen, eucalyptus, cypress	lm, filao, veg=11or12or17or18or25	5or29or38	MIL-STD-2402	5C030A002
	Symbol Number 0624 Description feature brown	ID Code MEC030A0624 n very thin dash line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
# # # # #	Symbol Number 0915 Description feature brown	ID Code MEC030A0915 n tree side-view patt fill	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression Orie	nt Source	Source ID
Product ✓ DNC	Feature Description trees - not mangrove	Symbol Assignment Expi veg⇔19	ression Orie	IHO S-52	Source ID LS(DASH,1,LANDF) + AP(VEGATN03)
	•	veg<≥19 ID Code MEC030A0624	(SIMPLIFIED SYMBOLOGY S/	IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03)
	Symbol Number 0624 Description feature brow Symbol Number 0916	veg<≥19 ID Code MEC030A0624		IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03)
✓ DNC	Symbol Number 0624 Description feature brow Symbol Number 0916	veg ◇19 ID Code MEC030A0624 n very thin dash line ID Code MEC030A0916	(SIMPLIFIED SYMBOLOGY SA	IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03)
✓ DNC Q Q Q Q	Symbol Number 0624 Description feature brown Symbol Number 0916 Description feature brown	veg ◇19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR ME AS STANDAR	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) D SYMBOLOGY)
✓ DNC □ □ □ □ □ □ □ □ □ □ □ Product	Symbol Number 0624 Description feature brow Symbol Number 0916 Description feature brow Feature Description	veg 19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill Symbol Assignment Expriveg=19 ID Code MEC030A1655	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR ME AS STANDAR of Source	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) Source ID LS(DASH,1,LANDF)
✓ DNC □ □ □ □ □ □ □ □ □ □ □ Product	Symbol Number 0624 Description feature brow Symbol Number 0916 Description feature brow Feature Description trees - mangrove Symbol Number 1655	veg 19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill Symbol Assignment Expriveg=19 ID Code MEC030A1655 in dash line ID Code MEC030A1613	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR ME AS STANDAR of Source	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) Source ID LS(DASH,1,LANDF)
✓ DNC Q Q Q Q Product ✓ DNC	Symbol Number 0624 Description feature brow Symbol Number 0916 Description feature brow Feature Description trees - mangrove Symbol Number 1655 Description basic blue th Symbol Number 1613	veg 19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill Symbol Assignment Expriveg=19 ID Code MEC030A1655 in dash line ID Code MEC030A1613	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orie	IHO S-52 MME AS STANDAR ME AS STANDAR IT Source IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) Source ID LS(DASH,1,LANDF)
✓ DNC Q Q Q Q Q D Product ✓ DNC	Symbol Number 0624 Description feature brow Symbol Number 0916 Description feature brow Feature Description trees - mangrove Symbol Number 1655 Description basic blue the Symbol Number 1613 Description yellow-green	veg 19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill Symbol Assignment Expriveg=19 ID Code MEC030A1655 in dash line ID Code MEC030A1613 In nipa patt fill	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orie	IHO S-52 MME AS STANDAR ME AS STANDAR IT Source IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) Source ID LS(DASH,1,LANDF) + AP(VEGATN04)
✓ DNC Q Q Q Q Product ✓ DNC Y Y Y Y Y Product	Symbol Number 0624 Description feature brown Symbol Number 0916 Description feature brown Feature Description trees - mangrove Symbol Number 1655 Description basic blue the Symbol Number 1613 Description yellow-green	veg ◇19 ID Code MEC030A0624 In very thin dash line ID Code MEC030A0916 In mangrove side-view patt fill Symbol Assignment Expressed veg=19 ID Code MEC030A1655 in dash line ID Code MEC030A1613 In nipa patt fill Symbol Assignment Expressed Symbol Assignment Expressed Symbol Assignment Expressed	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orie	IHO S-52 MME AS STANDAR MME AS STANDAR IN Source IHO S-52	LS(DASH,1,LANDF) + AP(VEGATN03) D SYMBOLOGY) Source ID LS(DASH,1,LANDF) + AP(VEGATN04) Source ID

EC040						E	C040
Line	Full Chart			√ Sim	olified		Line
	Symbol Number 3076 ID Co Description It gray thin solid line	ode MEC040L3076					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	cleared way/cut line/firebreak				MIL-STD-2402	5C015L001	
VML0	cleared way/cut line/firebreak				MIL-STD-2402	5C015L001	
VML1	cleared way/cut line/firebreak				MIL-STD-2402	5C015L001	
VML2	cleared way/cut line/firebreak				MIL-STD-2402	5C015L001	
EE000						Е	E000
Area	Full Chart			√ Simp	olified		Area
* . *	Symbol Number 4063 ID Co Description yellow-green stipple of	ode MEE000A4063 dot patt fill					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	miscellaneous vegetation				MIL-STD-2402	5B020A001	
FA000 Line	Full Chart			√ Sim _l	olified	F.	A000 Line
	Symbol Number 0680 ID Co Description black thin dotted line	ode MFA000L0680	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	D SYMBOLOG	 ≆Y)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	administrative boundary - insular	use=32			MIL-STD-2402	6A000L005	
	Symbol Number 1310 ID Co Description black one long dash t	ode MFA000L1310 wo short dash line	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDAR	D SYMBOLOG	9Y)
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	administrative boundary - international	use=23			MIL-STD-2402	6A000L002	
DTOP	administrative boundary - international	use=23			MIL-STD-2402	6A000L008	
FFD	administrative boundary - international	use=23			MIL-STD-2402	6A000L008	
UVM	administrative boundary - international	use=23			MIL-STD-2402	6A000L008	
VML0	administrative boundary - international	use=23			MIL-STD-2402	6A000L008	
VML1	administrative boundary - international	use=4or23			MIL-STD-2402	6A000L008	
VML2	administrative boundary - international	use=23			MIL-STD-2402	6A000L008	
WVS coc	administrative boundary - national, international	use=4or23			MIL-STD-2402	6A000L008	

	Symbol Number 1311 ID O Description black long dash sho	Code MFA000L1311 rt dash line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
DTOP	administrative boundary - primary, unknown	use=0or26		MIL-STD-2402	6A000L002	
FFD	administrative boundary - primary, unknown	use=0or26		MIL-STD-2402	6A000L002	
UVM	administrative boundary - primary, unknown, other	use=0or26or999		MIL-STD-2402	6A000L002	
VML0	administrative boundary - primary	use=26		MIL-STD-2402	6A000L002	
VML1	administrative boundary - primary, unknown	use=0or26		MIL-STD-2402	6A000L002	
VML2	administrative boundary - primary, unknown	use=0or26		MIL-STD-2402	6A000L002	
WVS coc	administrative boundary - primary, unknown	use=0or26		MIL-STD-2402	6A000L002	
	Symbol Number 1312 ID 0 Description black very thin sht of	Code MFA000L1312 dash very sht dash line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
UVM	administrative boundary - city	use=16		MIL-STD-2402	6A000L002	
Product	Description black thin long dsh Feature Description	2 shrt dsh line Symbol Assignment Expression	Orient	Source	Source ID	
VML1	administrative boundary - secondary	use=30		MIL-STD-2402	6A000L003	
WVS coc	administrative boundary - secondary	use=30		MIL-STD-2402	6A000L003	
<i>_</i>	Symbol Number 1319 ID C Description black thin long dash	Code MFA000L1319 1 3 dot line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
VML1	administrative boundary - tertiary	use=31		MIL-STD-2402	6A000L010	
WVS coc	administrative boundary - tertiary	use=31		MIL-STD-2402	6A000L010	
	Symbol Number 1408 ID 0 Description basic green vy thin	Code MFA000L1408 long dash short dash line				
Product			Orient	Source	Source ID	
Product WVS mab	Description basic green vy thin	long dash short dash line	Orient	Source ORIGINAL	Source ID 1408	
	Description basic green vy thin Feature Description	long dash short dash line	Orient		1408	A 00
WVS mab	Description basic green vy thin Feature Description	long dash short dash line	Orient ✓ Sim	ORIGINAL	1408	
WVS mab	Description basic green vy thin Feature Description administrative boundary Full Chart	Symbol Assignment Expression Code MFA001P2256		ORIGINAL	1408	A00 Poi
WVS mab	Description basic green vy thin Feature Description administrative boundary Full Chart Symbol Number 2256 ID 0	Symbol Assignment Expression Code MFA001P2256		ORIGINAL	1408	

Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0633 Description It gray thin de	ID Code MFA001A0633 ash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
FFD	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
UVM	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
VML0	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
VML1	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
VML2	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
WVS	administrative area				IHO S-52	LS(DASH,2,C	CHGRF)
FA015						F	A015
Point	Full Chart			√ Simp	olified		Point
F	Symbol Number 2257 Description magenta squa	ID Code MFA015P2257 are w/ F					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	firing range/gunnery range				ORIGINAL	2257	
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3054 Description It magenta ve	ID Code MFA015L3054 ery thin short dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	firing range/gunnery range				ORIGINAL	3054	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4185 Description magenta thin	ID Code MFA015A4185 short dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	firing range/gunnery range				MIL-STD-2402	1H045A001	

FA020				FA020
Line	Full Chart		✓ Simplified	Line
	Symbol Number 3119 ID Code MFA02 Description black very thin long dash line	OL3119 (SIMPLIFIED SYM	MBOLOGY SAME AS STANDAR	D SYMBOLOGY)
Product	Feature Description Symbol Ass	ignment Expression	Orient Source	Source ID
✓ DNC	armistice line		MIL-STD-2402	6A020L001
DTOP	armistice line		MIL-STD-2402	6A020L001
FFD	armistice line		MIL-STD-2402	6A020L001
UVM	armistice line		MIL-STD-2402	6A020L001
VML0	armistice line		MIL-STD-2402	6A020L001
VML1	armistice line		MIL-STD-2402	6A020L001
VML2	armistice line		MIL-STD-2402	6A020L001
WVS	armistice line		MIL-STD-2402	6A020L001
FA030				FA030
Line	Full Chart		✓ Simplified	Line
Line	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line			Line
Product	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line	DL3119 ignment Expression	✓ Simplified Orient Source	Source ID
	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line			
Product	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass		Orient Source	Source ID
Product DTOP	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Associates fire line		Orient Source MIL-STD-2402	Source ID 6A030L001
Product DTOP FFD	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line cease-fire line		Orient Source MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001
Product DTOP FFD VML0	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line cease-fire line cease-fire line		Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001
Product DTOP FFD VML0 VML1	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line cease-fire line cease-fire line cease-fire line		Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001
Product DTOP FFD VML0 VML1 VML2	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Assecase-fire line cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line		Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001
Product DTOP FFD VML0 VML1 VML2 WVS	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Assecase-fire line cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line		Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001
Product DTOP FFD VML0 VML1 VML2 WVS	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line	ignment Expression	Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 Line
Product DTOP FFD VML0 VML1 VML2 WVS	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line Cease-fire line Cease-fire line Cease-fire line Description black thin long dash line	ignment Expression	Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 Line
Product DTOP FFD VML0 VML1 VML2 WVS	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line cease-fire line Cease-fire line Cease-fire line Cease-fire line Description black thin long dash line	DL3120 (SIMPLIFIED SYN	Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 FA040 Line
Product DTOP FFD VML0 VML1 VML2 WVS FA040 Line	Symbol Number 3119 ID Code MFA03 Description black very thin long dash line Feature Description Symbol Ass cease-fire line full Chart Symbol Number 3120 ID Code MFA04 Description black thin long dash line Feature Description Symbol Ass	DL3120 (SIMPLIFIED SYN	Orient Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	Source ID 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 6A030L001 FA040 Line D SYMBOLOGY) Source ID

FA050						F	A050
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 3118 Description black dash lin	ID Code MFA050L3118					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML0	mandate line/convention line				ORIGINAL	3118	
VML1	mandate line/convention line				ORIGINAL	3118	
WVS	mandate line/convention line				ORIGINAL	3118	
FA060						F/	A060
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 1310 Description black one lor	ID Code MFA060L1310 ng dash two short dash line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDAR	D SYMBOLOG	Y)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	defacto boundary				MIL-STD-2402	6A060L002*	
DTOP	defacto boundary				MIL-STD-2402	6A060L002*	
VML0	defacto boundary				MIL-STD-2402	6A060L002*	
VML1	defacto boundary				MIL-STD-2402	6A060L002*	
VML2	defacto boundary				MIL-STD-2402	6A060L002*	
WVS	defacto boundary				MIL-STD-2402	6A060L002*	
FA070						F	4070
Line	Full Chart			√ Simp	plified		Line
	Symbol Number 3143 Description black double	ID Code MFA070L3143 dash very thin lines					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
WVS	demilitarized zone	mbl=6			MIL-STD-2402	6A070A001	
Area	Full Chart			√ Simp	plified		Area
	Symbol Number 3143 Description black double	ID Code MFA070A3143 dash very thin lines					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	demilitarized zone				MIL-STD-2402	6A070A001	
UVM	demilitarized zone				MIL-STD-2402	6A070A001	
VML0	demilitarized zone				MIL-STD-2402	6A070A001	
VML1	demilitarized zone				MIL-STD-2402	6A070A001	
VML2	demilitarized zone				MIL-STD-2402	6A070A001	

FA090				FA09
Line	Full Chart	√ Simpl	lified	Lin
	Symbol Number 0612 ID Code MFA090L0612 Description It gray very thin solid line			
Product	Feature Description Symbol Assignment Exp	pression Orient	Source	Source ID
DTOP	geophysical prospecting grid		MIL-STD-2402	1L085L001
VML1	geophysical prospecting grid		MIL-STD-2402	1L085L001
VML2	geophysical prospecting grid		MIL-STD-2402	1L085L001
FA110				FA11
Line	Full Chart	√ Simpl	lified	Lin
	Symbol Number 3119 ID Code MFA110L3119 Description black very thin long dash line	(SIMPLIFIED SYMBOLOGY SAME	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description Symbol Assignment Exp	pression Orient	Source	Source ID
√ DNC	international date line		MIL-STD-2402	6A110L001
DTOP	international date line		MIL-STD-2402	6A110L001
VML0	international date line		MIL-STD-2402	6A110L001
VML1	international date line		MIL-STD-2402	6A110L001
VML2	international date line		MIL-STD-2402	6A110L001
FA170				FA170
Area	Full Chart	√ Simpl	lified	Are
		<u>.</u>		
	Symbol Number 3118 ID Code MFA170A3118 Description black dash line			
Product	· ·	pression Orient	Source	Source ID
Product DTOP	Description black dash line			Source ID 6A170A001
	Description black dash line Feature Description Symbol Assignment Exp		Source	
DTOP	Description black dash line Feature Description Symbol Assignment Exp zone of occupation		Source MIL-STD-2402	6A170A001
DTOP VML0	Description black dash line Feature Description Symbol Assignment Exp zone of occupation zone of occupation		Source MIL-STD-2402 MIL-STD-2402	6A170A001 6A170A001
DTOP VML0 VML1 VML2	Description black dash line Feature Description Symbol Assignment Exp zone of occupation zone of occupation zone of occupation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	6A170A001 6A170A001 6A170A001
DTOP VML0 VML1 VML2	Description black dash line Feature Description Symbol Assignment Exp zone of occupation zone of occupation zone of occupation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	6A170A001 6A170A001 6A170A001 6A170A001
DTOP VML0 VML1 VML2	Description black dash line Feature Description Symbol Assignment Exp zone of occupation zone of occupation zone of occupation zone of occupation		Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	6A170A001 6A170A001 6A170A001 6A170A001 FC02
DTOP VML0 VML1	Peature Description Symbol Assignment Expression Symbol Assignment	✓ Simpl (SIMPLIFIED SYMBOLOGY SAME	Source MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 MIL-STD-2402	6A170A001 6A170A001 6A170A001 6A170A001 FC02

(!)	Symbol Number 0084 ID Co Description magenta cir w/! Insic	ode MFC021P0084	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
✓ DNC	maritime limit boundary - not pilot boarding	mac<>48		IHO S-52	SY(CHINFO06)
Line	Full Chart		√ Si	mplified	Line
	Symbol Number 0629 ID Co Description gray thin dash line	ode MFC021L0629	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
/ DNC	maritime limit boundary - fish traps	mac=56 AND mbl=NULL		IHO S-52	LS(DASH,2,CHGRD)
✓ DNC	maritime limit boundary - not clearing line	mbl⇔7and⇔13 AND mac	=NULL	IHO S-52	LS(DASH,2,CHGRD)
	Symbol Number 0631 ID Co Description gray thin solid line	ode MFC021L0631	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
/ DNC	maritime limit boundary - unsurveyed	mac=26 AND mbl=NULL		IHO S-52	LS(SOLD,2,CHGRD)
	Symbol Number 0633 ID Co Description It gray thin dash line	ode MFC021L0633	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
✓ DNC	maritime limit boundary - marine farm	mac=57 AND mbl=NULL		IHO S-52	LS(DASH,2,CHGRF)
TOD0	maritime limit boundary - limit of territorial waters	mbl=6		IHO S-52	LS(DASH,2,CHGRF)
TOD0	maritime limit boundary - other	mbl⇔6		IHO S-52	LS(DASH,2,CHGRF)
WVS	maritime limit boundary - territorial waters limits	mbl=6		IHO S-52	LS(DASH,2,CHGRF)
	Symbol Number 0634 ID Co Description magenta very thin das	ode MFC021L0634 sh line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
/ DNC	maritime limit boundary - dumping, explosive dumping	mac=30or35 AND mbl=NU	ЛLL	IHO S-52	LS(DASH,1,CHMGD
/ DNC	maritime limit boundary - spoil	mac=25 AND mbl=NULL		IHO S-52	LS(DASH,1,CHMGD
	Symbol Number 0635 ID Co Description It magenta very thin o	ode MFC021L0635 dash line	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
/ DNC	maritime limit boundary - cargo Xshipment	mac=49 AND mbl=NULL		IHO S-52	LS(DASH,1,CHMGF
/ DNC	maritime limit boundary - incineration	mac=31 AND mbl=NULL		IHO S-52	LS(DASH,1,CHMGF
	Symbol Number 0656 ID Co Description gray very thin dash li	ode MFC021L0656 ne	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	ssion Orien	t Source	Source ID
/ DNC	maritime limit boundary - clearing line	mbl=13 AND mac=NULL		IHO S-52	LS(DASH,1,CHGRD)
✓ DNC	maritime limit boundary - fairway	mac=55 AND mbl=NULL		IHO S-52	LS(DASH,1,CHGRD)

	Symbol Number 0663 ID Co Description traffic magenta thin d	ode MFC021L0663 ash line	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	sion Orient	Source	Source ID
✓ DNC	maritime limit boundary - precautionary	mac=42 AND mbl=NULL		IHO S-52	LS(DASH,2,TRFCD)
✓ DNC	maritime limit boundary - unknown, other	mac=0or999 AND mbl=NU	JLL.	IHO S-52	LS(DASH,2,TRFCD)
1	Symbol Number 1451 ID Co Description purple dash line w/ tio	ode MFC021L1451 es both sides (-+-)			
Product	Feature Description	Symbol Assignment Expres	sion Orient	Source	Source ID
FFD	maritime limit boundary - international (at sea)	mbl=9		MIL-STD-2402	6A050L002
WVS	maritime limit boundary - international (at sea)	mbl=9		MIL-STD-2402	6A050L002
	Symbol Number 1651 ID Co Description traffic lt magenta thin	ode MFC021L1651 dash line	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	D SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expres	sion Orient	Source	Source ID
✓ DNC	maritime limit boundary - pilot boarding	mac=48 AND mbl=NULL		IHO S-52	LS(DASH,2,TRFCF)
Product FFD	Description It magenta very thin s Feature Description	Symbol Assignment Expres	sion Orien	Source	Causa ID
EEL)	77 11 74 1 1 1	11.0			Source ID
WVS	maritime limit boundary - unknown maritime limit boundary - other territorial baseline	mbl=0 mbl=999		MIL-STD-2402 MIL-STD-2402	6C090L001* 6C090L001*
	maritime limit boundary - other territorial baseline	mbl=999 ode MFC021L3077	(SIMPLIFIED SYMBOLOGY SAI	MIL-STD-2402 MIL-STD-2402	6C090L001* 6C090L001*
	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Co	mbl=999 ode MFC021L3077	,	MIL-STD-2402 MIL-STD-2402	6C090L001* 6C090L001*
WVS	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Conductor Description It gray very thin dash	mbl=999 ode MFC021L3077 line	,	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR	6C090L001* 6C090L001* D SYMBOLOGY)
WVS Product	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Co Description It gray very thin dash Feature Description maritime limit boundary - territorial	mbl=999 ode MFC021L3077 line Symbol Assignment Expres	,	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source	6C090L001* 6C090L001* D SYMBOLOGY) Source ID
Product ✓ DNC	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Conception of Description of Linds It gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7	,	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF)
Product ✓ DNC	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Conception of Description of It gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline Symbol Number 4186 ID Conception	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7	(SIMPLIFIED SYMBOLOGY SAI	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF)
Product ✓ DNC WVS	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Conception of Description lt gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline Symbol Number 4186 ID Conception magenta thin dash limit boundary - territorial waters baseline	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7 ode MFC021L4186	(SIMPLIFIED SYMBOLOGY SAI	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52 ME AS STANDAR	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF) D SYMBOLOGY)
Product ✓ DNC WVS	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Cord Description It gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline Symbol Number 4186 ID Cord Description magenta thin dash limits Feature Description	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7 ode MFC021L4186 e Symbol Assignment Expres	(SIMPLIFIED SYMBOLOGY SAI	MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52 ME AS STANDAR	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF) D SYMBOLOGY) Source ID LS(DASH,2,CHMGD
Product ✓ DNC WVS Product ✓ DNC ✓ DNC ✓ DNC ✓ DNC	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Cord Description It gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline Symbol Number 4186 ID Cord Description magenta thin dash limit boundary - deguassing maritime limit boundary - deguassing maritime limit boundary - dredging maritime limit boundary - oil field, gas field	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7 ode MFC021L4186 e Symbol Assignment Expres mac=44 AND mbl=NULL	(SIMPLIFIED SYMBOLOGY SAI	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52 ME AS STANDAR Source IHO S-52	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF) D SYMBOLOGY) Source ID
Product ✓ DNC WVS Product ✓ DNC ✓ DNC ✓ DNC ✓ DNC	maritime limit boundary - other territorial baseline Symbol Number 3077 ID Cord Description It gray very thin dash Feature Description maritime limit boundary - territorial waters baseline maritime limit boundary - territorial waters baseline Symbol Number 4186 ID Cord Description magenta thin dash limit boundary - deguassing maritime limit boundary - deguassing maritime limit boundary - dredging maritime limit boundary - oil field, gas	mbl=999 ode MFC021L3077 line Symbol Assignment Expres mbl=7 AND mac=NULL mbl=7 ode MFC021L4186 e Symbol Assignment Expres mac=44 AND mbl=NULL mac=58 AND mbl=NULL	(SIMPLIFIED SYMBOLOGY SAIssion Orient	MIL-STD-2402 MIL-STD-2402 MIL-STD-2402 ME AS STANDAR Source IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52 IHO S-52	6C090L001* 6C090L001* D SYMBOLOGY) Source ID LS(DASH,1,CHGRF) LS(DASH,1,CHGRF) D SYMBOLOGY) Source ID LS(DASH,2,CHMGD) LS(DASH,2,CHMGD)

Area	Full Chart		√ Sir	nplified	Area
	Symbol Number 0823 ID Co Description no data gray solid fill	ode MFC021A0823	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDARI) SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - unsurveyed	mac=26		IHO S-52	AC(NODTA)
 	Symbol Number 0933 ID Co Description gray offset dash patt	ode MFC021A0933	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDARI) SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - unsurveyed	mac=26		IHO S-52	AP(NODATA03)
	Symbol Number 0631 ID Co Description gray thin solid line	ode MFC021A0631	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDARI) SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - unsurveyed	mac=26		IHO S-52	LS(SOLD,2,CHGRD)
1	Symbol Number 0716 ID Co Description gray dash/chevron lin	ode MFC021A0716	Symbol Number 0634 ID Cod Description magenta very thin dash li	e MFC021A0634	
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - spoil	mac=25		IHO S-52	LC(NAVARE51)
7	Symbol Number 0716 ID Co Description gray dash/chevron lin	ode MFC021A0716	Symbol Number 0656 ID Cod Description gray very thin dash line	e MFC021A0656	
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - fairway	mac=55		IHO S-52	LC(NAVARE51)
4	Symbol Number 0716 ID Co	ode MFC021A0716	Symbol Number 0656 ID Cod Description gray very thin dash line	e MFC021A0656	
	Symbol Number 0904 ID Co Description gray fish in net patt f	ode MFC021A0904	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - marine farm	mac=57		IHO S-52	LC(NAVARE51) + AP(MARCUL02)
	Symbol Number 0047 ID Co Description gray rectangle w/ ang	ode MFC021A0047 gle line on top			
1	Symbol Number 0716 ID Co Description gray dash/chevron lin	ode MFC021A0716	Symbol Number 0656 ID Cod Description gray very thin dash line	e MFC021A0656	
	Symbol Number ID Co Description	ode	Symbol Number 0903 ID Cod Description gray fish trap patt fill	e MFC021A0903	A A A
Product	Feature Description	Symbol Assignment Expr	ession Orient	Source	Source ID
✓ DNC	maritime limit boundary - fish traps	mac=56		IHO S-52	SY(FSHFAC02) + LC(NAVARE51)

	Symbol Number 0080 Description magenta solid	ID Code MFC021A0080 filled diamond inside cir	(SIMPLIFIED SYMBOLO	OGY SAMI	E AS STANDARI	SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/	ID Code MFC021A0734 /chevron line	Symbol Number 1651 Description traffic lt magent		MFC021A1651 line	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
√ DNC ma	aritime limit boundary - pilot b	oarding mac=48			IHO S-52	SY(PILBOP02) + LC(CTYARE51)
i	Symbol Number 0081 Description lt magenta squ	ID Code MFC021A0081 hare w/ I	(SIMPLIFIED SYMBOLO	DGY SAM	E AS STANDARI) SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/	ID Code MFC021A0734 /chevron line	Symbol Number 0634 Description magenta very th		MFC021A0634	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	aritime limit boundary - dumpi plosive dumping	ng, mac=30or35			IHO S-52	SY(INFARE51) + LC(CTYARE51)
i	Symbol Number 0081 Description It magenta squ	ID Code MFC021A0081 lare w/ I	(SIMPLIFIED SYMBOLO	OGY SAMI	E AS STANDARI) SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/	ID Code MFC021A0734 /chevron line	Symbol Number 0635 Description lt magenta very		MFC021A0635 ine	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	aritime limit boundary - cargo shipment	mac=49			IHO S-52	SY(INFARE51) + LC(CTYARE51)
✓ DNC ma	aritime limit boundary - inciner	ration mac=31			IHO S-52	SY(INFARE51) + LC(CTYARE51)
<u></u>	Symbol Number 0092 Description traffic lt mage	ID Code MFC021A0092 nta! Inside triangle	(SIMPLIFIED SYMBOLO	OGY SAMI	E AS STANDARI) SYMBOLOGY)
A DAY	Symbol Number 0738 Description magenta dash/	ID Code MFC021A0738 /chev line w/precaution symbol	Symbol Number 0663 Description traffic magenta		MFC021A0663	
	Symbol Number 0917 Description traffic lt mage	ID Code MFC021A0917 nta rt diag line patt fill				
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
√ DNC ma	aritime limit boundary - precau	tionary mac=42			IHO S-52	SY(PRCARE51) + LC(PRCARE51) + AP(TSSJCT02)

	Symbol Number 0093 II Description traffic lt magenta	D Code MFC021A0093 ! Inside lg circle	(SIMPLIFIED SYMBO	DLOGY SAMI	E AS STANDARI	O SYMBOLOGY)
A A	Symbol Number 0734 II Description magenta dash/che	D Code MFC021A0734 evron line	Symbol Number 4186 Description magenta thin		MFC021A4186	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	maritime limit boundary - deguassin	g mac=44			IHO S-52	SY(CTYARE51) + LC(CTYARE51)
✓ DNC	maritime limit boundary - dredging				IHO S-52	SY(CTYARE51) + LC(CTYARE51)
✓ DNC	maritime limit boundary - oil field, g				IHO S-52	SY(CTYARE51) + LC(CTYARE51)
✓ DNC	maritime limit boundary - submarine exercise, mine laying, firing range				IHO S-52	SY(CTYARE51) + LC(CTYARE51)
✓ DNC	maritime limit boundary - turning ar	rea mac=24			IHO S-52	SY(CTYARE51) + LC(CTYARE51)
	Symbol Number 0097 II Description traffic lt magenta	D Code MFC021A0097 ! Inside lg circle	(SIMPLIFIED SYMBC	DLOGY SAMI	E AS STANDARI	O SYMBOLOGY)
4 () A	Symbol Number 0742 II Description magenta dash/che	D Code MFC021A0742 evron line w/caution symbol	Symbol Number 0663 Description traffic magen		MFC021A0663	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	maritime limit boundary - unknown,	mac=0or999			IHO S-52	SY(CTNARE51) +
	other					LC(CTNARE51)
	other Full Chart			√ Simp	olified	FC031
FC031 Point	Full Chart	D Code MFC031P0082 cir w/ bar	(SIMPLIFIED SYMBC			FC031
Point	Full Chart Symbol Number 0082 II		`		E AS STANDARI	FC031
Point	Full Chart Symbol Number 0082 II Description traffic It magenta	cir w/ bar	`	DLOGY SAMI	E AS STANDARI	FC031 Poir
Product	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited	Symbol Assignment Exp mac=5	`	OLOGY SAMI	E AS STANDARI Source IHO S-52	Poin SYMBOLOGY) Source ID SY(ENTRES51)
Product	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II	Symbol Assignment Exp mac=5	(SIMPLIFIED SYMBC	OLOGY SAMI	Source IHO S-52 E AS STANDARI	Poir SYMBOLOGY) Source ID SY(ENTRES51)
Product ✓ DNC	Full Chart Symbol Number 0082 II Description traffic lt magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic lt magenta	Symbol Assignment Exp. mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp.	(SIMPLIFIED SYMBC	OLOGY SAMI	E AS STANDARI Source IHO S-52 E AS STANDARI	FC03* Poir Symbology) Source ID SY(ENTRES51) SYMBOLOGY)
Product ✓ DNC Product	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic It magenta Feature Description maritime area - roundabout zone (TS)	Symbol Assignment Exp mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp SS) mac=40 D Code MFC031P0084	(SIMPLIFIED SYMBC	OLOGY SAMI Orient OLOGY SAMI	Source IHO S-52 E AS STANDARI Source IHO S-52	FC031 Poin Symbology) Source ID SY(ENTRES51) Symbology) Source ID Sy(TSSRON51)
Product ✓ DNC Product ✓ DNC	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic It magenta Feature Description maritime area - roundabout zone (TS	Symbol Assignment Exp mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp SS) mac=40 D Code MFC031P0084	(SIMPLIFIED SYMBO	OLOGY SAMI Orient OLOGY SAMI	Source IHO S-52 E AS STANDARE Source IHO S-52 E AS STANDARE	FC031 Poin Symbology) Source ID SY(ENTRES51) Symbology) Source ID Sy(TSSRON51)
Product ✓ DNC Product ✓ DNC I	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic It magenta Feature Description maritime area - roundabout zone (TS Symbol Number 0084 II Description magenta cir w/!	Symbol Assignment Exp mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp SS) mac=40 D Code MFC031P0084 Inside	(SIMPLIFIED SYMBO	Orient Orient Orient Orient Orient	Source IHO S-52 E AS STANDARE Source IHO S-52 E AS STANDARE	FC031 Poir Symbology) Source ID SY(ENTRES51) Symbology) Source ID Sy(TSSRON51) Symbology)
Product ✓ DNC Product ✓ DNC Product ✓ Product ✓ Product	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic It magenta Feature Description maritime area - roundabout zone (TS Symbol Number 0084 II Description magenta cir w/!! Feature Description maritime area - unknown	Symbol Assignment Exp. mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp. SS) mac=40 D Code MFC031P0084 Inside Symbol Assignment Exp. mac=0 D Code MFC031P0087	(SIMPLIFIED SYMBO	Orient Orient Orient Orient Orient Orient Orient	Source IHO S-52 E AS STANDARI Source IHO S-52 E AS STANDARI Source IHO S-52 E AS STANDARI IHO S-52	FC031 Poir Symbology) Source ID SY(ENTRES51) Symbology) Source ID SY(TSSRON51) Symbology) Source ID SY(TSSRON51)
Product ✓ DNC Product ✓ DNC Product ✓ Product ✓ Product	Full Chart Symbol Number 0082 II Description traffic It magenta Feature Description maritime area - entry prohibited Symbol Number 0083 II Description traffic It magenta Feature Description maritime area - roundabout zone (TS Symbol Number 0084 II Description magenta cir w/!! Feature Description maritime area - unknown	Symbol Assignment Exp. mac=5 D Code MFC031P0083 arc w/ arrowhead Symbol Assignment Exp. SS) mac=40 D Code MFC031P0084 Inside Symbol Assignment Exp. mac=0 D Code MFC031P0087	ression (SIMPLIFIED SYMBO ression (SIMPLIFIED SYMBO ression (SIMPLIFIED SYMBO	Orient Orient Orient Orient Orient Orient Orient	Source IHO S-52 E AS STANDARE Source IHO S-52 E AS STANDARE Source IHO S-52 E AS STANDARE Source IHO S-52	FC031 Point Symbology) Source ID SY(ENTRES51) Symbology) Source ID SY(TSSRON51) Symbology) Source ID SY(TSSRON51)

	Symbol Number 0093 ID Description traffic lt magenta!	Code MFC031P0093 Inside lg circle	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - mine danger area	mac=4			IHO S-52	SY(CTYARE51)
Line	Full Chart			√ Simp	olified	Line
	Symbol Number 0663 ID Description traffic magenta thir	Code MFC031L0663 n dash line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STAND/	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - unknown, work in progress	mac=0or9			IHO S-52	LS(DASH,2,TRFCD)
	Symbol Number 0665 ID Description traffic magenta thic	Code MFC031L0665 sk dash line	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - TSS	mac=40or41			IHO S-52	LS(DASH,4,TRFCD)
	Symbol Number 3077 ID Description lt gray very thin dat	Code MFC031L3077	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STAND/	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel	mac=2			IHO S-52	LS(DASH,1,CHGRF)
	Symbol Number 4186 ID Description magenta thin dash l	Code MFC031L4186	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	maritime area - entry prohibited	mac=5			IHO S-52	LS(DASH,2,CHMGD)
✓ DNC	maritime area - mine danger	mac=4			IHO S-52	LS(DASH,2,CHMGD)
Area	Full Chart			√ Simp	olified	Area
	Symbol Number 0803 ID Description yellow green solid	Code MFC031A0803	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STAND/	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, deptl unknown, shallow mode off	h mac=2 AND hdp=0 AND) isdm=0		IHO S-52	AC(DEPIT)
✓ DNC	maritime area - dredged channel, deptl unknown, shallow mode on	h mac=2 AND hdp=0 AND) isdm=1		IHO S-52	AC(DEPIT)
	Symbol Number 0805 ID Description depth white fill	Code MFC031A0805	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 2 shades, deep water	mac=2 AND idsm=1 AN	D hdp>=ssdc		IHO S-52	AC(DEPDW)
✓ DNC	maritime area - dredged channel, 4 shades, deep water	mac=2 AND idsm=0 AN	D hdp>=msdc		IHO S-52	AC(DEPDW)

	Symbol Number 0810 ID Co	de MFC031A0810 (SIMPLIFIED SYN	IBOLOGY SAM	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode off	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" is<="" td=""><td>dm=0</td><td>IHO S-52</td><td>AC(DEPVS)</td></ssdc>	dm=0	IHO S-52	AC(DEPVS)
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode on	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" is<="" td=""><td>dm=1</td><td>IHO S-52</td><td>AC(DEPVS)</td></ssdc>	dm=1	IHO S-52	AC(DEPVS)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>0and <mssc and="" i<="" td=""><td>sdm=0</td><td>IHO S-52</td><td>AC(DEPVS)</td></mssc>	sdm=0	IHO S-52	AC(DEPVS)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>0and <mssc and="" i<="" td=""><td>sdm=1</td><td>IHO S-52</td><td>AC(DEPVS)</td></mssc>	sdm=1	IHO S-52	AC(DEPVS)
	Symbol Number 0820 ID Co Description depth pale blue solid	de MFC031A0820 (SIMPLIFIED SYN	IBOLOGY SAM	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 4 shades, medium deep	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td></td><td>IHO S-52</td><td>AC(DEPMD)</td></msdc<>		IHO S-52	AC(DEPMD)
	Symbol Number 0821 ID Co Description depth lt blue solid fill	de MFC031A0821 (SIMPLIFIED SYN	IBOLOGY SAM	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>=msscand <ssdc al="" isdm="0</td"><td>ND</td><td>IHO S-52</td><td>AC(DEPMS)</td></ssdc>	ND	IHO S-52	AC(DEPMS)
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>=msscand <ssdc al="" isdm="1</td"><td>ND</td><td>IHO S-52</td><td>AC(DEPMS)</td></ssdc>	ND	IHO S-52	AC(DEPMS)
• •	Symbol Number 0919 ID Co Description gray diag spaced dot	de MFC031A0919 patt fill (SIMPLIFIED SYM	IBOLOGY SAM	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 2 shades, deep water	mac=2 AND idsm=1 AND hdp>=ssdc		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode off	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" is<="" td=""><td>dm=0</td><td>IHO S-52</td><td>AP(DRGARE01)</td></ssdc>	dm=0	IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode on	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" is<="" td=""><td>dm=1</td><td>IHO S-52</td><td>AP(DRGARE01)</td></ssdc>	dm=1	IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, deep water	mac=2 AND idsm=0 AND hdp>=msdc		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>=msscand <ssdc al="" isdm="0</td"><td></td><td>IHO S-52</td><td>AP(DRGARE01)</td></ssdc>		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>=msscand <ssdc alisdm="1</td"><td>ND</td><td>IHO S-52</td><td>AP(DRGARE01)</td></ssdc>	ND	IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, medium deep	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td></td><td>IHO S-52</td><td>AP(DRGARE01)</td></msdc<>		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>0and <mssc and="" i<="" td=""><td></td><td>IHO S-52</td><td>AP(DRGARE01)</td></mssc>		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>0and <mssc and="" i<="" td=""><td>sdm=1</td><td>IHO S-52</td><td>AP(DRGARE01)</td></mssc>	sdm=1	IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, depth unknown, shallow mode off	mac=2 AND hdp=0 AND isdm=0		IHO S-52	AP(DRGARE01)
✓ DNC	maritime area - dredged channel, depth unknown, shallow mode on	mac=2 AND hdp=0 AND isdm=1		IHO S-52	AP(DRGARE01)

\searrow	Symbol Number 0949 ID Co Description depth gray diamond p	ode MFC031A0949 (SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDA	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode on	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>AP(DIAMOND1)</td></ssdc>		IHO S-52	AP(DIAMOND1)
DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>AP(DIAMOND1)</td></ssdc>		IHO S-52	AP(DIAMOND1)
DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>AP(DIAMOND1)</td></mssc>		IHO S-52	AP(DIAMOND1)
DNC	maritime area - dredged channel, depth unknown, shallow mode on	mac=2 AND hdp=0 AND isdm=1		IHO S-52	AP(DIAMOND1)
	Symbol Number 0681 ID Co	ode MFC031A0681			
	Description UI very dk blue thin s	solid line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - major op area	mac=104		OPAREA	
	Symbol Number 0682 ID Co Description UI very dk blue very	ode MFC031A0682 thin solid line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - minor op area	mac=105		OPAREA	
Product	Symbol Number 0683 ID Co Description UI very dk blue dotted Feature Description	d line Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - sea test range	mac=114	Official	OPAREA	Source ID
1	Symbol Number 0716 ID Co Description gray dash/chevron lin	ode MFC031A0716 e			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - safety lane	mac=156		IHO S-52	LC(NAVARE51)
	Symbol Number 0754 ID Co Description UI vy dk blue vy thin	ode MFC031A0754 line w/5 rows dots inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - ASW area	mac=106		OPAREA	
	Symbol Number 0755 ID Co Description UI vy dk blue vy thin	ode MFC031A0755 line w/vert inward ticks			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - submarine op area	mac=107		OPAREA	
mim	Symbol Number 0756 ID Co Description feature brown vy thin	ode MFC031A0756 line w/vert inward ticks			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID

	Symbol Number 0757 ID Co	.da MEC021A0757			
HILL	Description feature brown vy thin	de MFC031A0757 line w/3 rows dots ins			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - submarine traffic lane surface	mac=109		OPAREA	
	Symbol Number 0758 ID Co				
••••	Symbol Number 0758 ID Co Description feature brown 5 dot v	y thin line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - surface traffic lane	mac=110		OPAREA	
	Symbol Number 3077 ID Co Description It gray very thin dash	de MFC031A3077 (SIMPLIFIED SYMBOLO	GY SAM	E AS STAND	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
✓ DNC	maritime area - dredged channel, 2 shades, deep water	mac=2 AND idsm=1 AND hdp>=ssdc		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode off	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></ssdc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 2 shades, very shallow, shallow mode on	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></ssdc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, deep water	mac=2 AND idsm=0 AND hdp>=msdc		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="0</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></ssdc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, med shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></ssdc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, medium deep	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></msdc<>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode off	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></mssc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, 4 shades, very shallow, shallow mode on	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td></td><td>IHO S-52</td><td>LS(DASH,1,CHGRF)</td></mssc>		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, depth unknown, shallow mode off	mac=2 AND hdp=0 AND isdm=0		IHO S-52	LS(DASH,1,CHGRF)
✓ DNC	maritime area - dredged channel, depth unknown, shallow mode on	mac=2 AND hdp=0 AND isdm=1		IHO S-52	LS(DASH,1,CHGRF)
i	Symbol Number 0081 ID Co Description It magenta square w/	ode MFC031A0081			
1	Symbol Number 0734 ID Co Description magenta dash/chevron	ode MFC031A0734			
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID
TOD0	maritime area - marine sanctuary	mac=101		IHO S-52	SY(INFARE51) + LC(CTYARE51)

	Symbol Number 0082 ID C Description traffic lt magenta cir	Code MFC031A0082 r w/ bar	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDARI	O SYMBOLOGY)
A A	Symbol Number 0734 ID C Description magenta dash/chevr	Code MFC031A0734 on line	Symbol Number 4186 ID Coc Description magenta thin dash line	e MFC031A4186	
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
✓ DNC	maritime area - entry prohibited	mac=5		IHO S-52	SY(ENTRES51) + LC(CTYARE51)
	Symbol Number 0083 ID Conscription traffic lt magenta are	Code MFC031A0083 c w/ arrowhead	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDARI	O SYMBOLOGY)
	Symbol Number 0917 ID Conscription traffic lt magenta rt	Code MFC031A0917 diag line patt fill			
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
✓ DNC	maritime area - roundabout zone (TSS)) mac=40		IHO S-52	SY(TSSRON51) + AP(TSSJCT02)
<u></u> ?	Symbol Number 0087 ID C Description traffic lt magenta! I	Code MFC031A0087 in lg cir w/ magenta ?			
A A	Symbol Number 0734 ID C Description magenta dash/chevr	Code MFC031A0734 on line			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
TOD0	maritime area - restricted areas	mac=0or144or145or154o	17999	IHO S-52	SY(RSRDEF51) + LC(CTYARE51)
Ţ.	Symbol Number 0093 ID O Description traffic lt magenta! I	Code MFC031A0093	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDARI	O SYMBOLOGY)
A A	Symbol Number 0734 ID C Description magenta dash/chevr	Code MFC031A0734 on line	Symbol Number 4186 ID Coc Description magenta thin dash line	le MFC031A4186	
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
✓ DNC	maritime area - mine danger	mac=4		IHO S-52	SY(CTYARE51) + LC(CTYARE51)
TOD0	maritime area - military area, minefield	l mac=143or148or149or15	8	IHO S-52	SY(CTYARE51) + LC(CTYARE51)
TOD0	maritime area - military practice areas	mac=27or28or115or116o or153or157or159	r140or146or147or150or151or152	IHO S-52	SY(CTYARE51) + LC(CTYARE51)
[]	Symbol Number 0097 ID C Description traffic lt magenta! I	Code MFC031A0097	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDARI	O SYMBOLOGY)
4 () A	Symbol Number 0742 ID O Description magenta dash/chevr	Code MFC031A0742 on line w/caution symbol	Symbol Number 0663 ID Coc Description traffic magenta thin dash	le MFC031A0663	
Product	Feature Description	Symbol Assignment Exp	ression Orien	t Source	Source ID
✓ DNC	maritime area - unknown, work in progress	mac=0or9		IHO S-52	SY(CTNARE51) + LC(CTNARE51)
TOD0	maritime area - caution areas	mac=141or142or155		IHO S-52	SY(CTNARE51) + LC(CTNARE51)

IT.						
П	Description lt magenta IT	D Code MFC031A1236	(SIMPLIFIED SYMBOLO	GY SAM	E AS STANDARI	O SYMBOLOGY)
TTT	Symbol Number 0722 II Description magenta dashed	D Code MFC031A0722 T line	Symbol Number 0662 Description traffic magenta		MFC031A0662 ash line	
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	maritime area - inshore traffic zone (TSS)	mac=41			IHO S-52	SY(ITZARE51) + LC(RESARE51)
FC036						FC036
Point	Full Chart			√ Simp	olified	Point
	Symbol Number 0082 II Description traffic lt magenta	D Code MFC036P0082 a cir w/ bar	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	restricted area - area to be avoided	mac=43			IHO S-52	SY(ENTRES51)
\nearrow	Symbol Number 0085 II Description lt magenta fish w	D Code MFC036P0085 // intersecting diag line	(SIMPLIFIED SYMBOLC	GY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	restricted area - fishing prohibited	mac=22			IHO S-52	SY(FSHRES51)
	Symbol Number 0086 II Description lt magenta open a	D Code MFC036P0086 anchor w/ intrsctng diag line	(SIMPLIFIED SYMBOLC	OGY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	restricted area - anchoring prohibite	d mac=15			IHO S-52	SY(ACHRES51)
<u>.</u> ;	Symbol Number 0087 II Description traffic lt magenta	D Code MFC036P0087 1! In lg cir w/ magenta?	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	restricted area - unknown or other	mac=0or999			IHO S-52	SY(RSRDEF51)
1	Symbol Number 0093 II Description traffic lt magenta	D Code MFC036P0093	(SIMPLIFIED SYMBOLC	OGY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	restricted area - safety zone	mac=37			IHO S-52	SY(CTYARE51)
Line	Full Chart			√ Simp	blified	Line
TTTT	Symbol Number 0722 II Description magenta dashed	D Code MFC036L0722 T line	(SIMPLIFIED SYMBOLC	OGY SAM	E AS STANDARI	SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	restricted area				IHO S-52	LC(RESARE51)

Area	Full Chart			√ Simp	lified	Area
i	Symbol Number 0081 Description lt magenta squa	ID Code MFC036A0081 are w/ I	(SIMPLIFIED SYMBOLO	GY SAME	E AS STANDARE) SYMBOLOGY)
404	Symbol Number 0735 Description magenta dash/c	ID Code MFC036A0735 hevron line w/ dash, cir	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC res	stricted area - pipelines, sewer	mac=21or23or61			IHO S-52	SY(INFARE51) + LC(PIPARE51)
i	Symbol Number 0081 Description lt magenta squa	ID Code MFC036A0081 are w/ I	(SIMPLIFIED SYMBOLO	GY SAME	E AS STANDARE	,
A -0 -4 -4	Symbol Number 0736 Description gray dash/chev	ID Code MFC036A0736 ron line w/ dash, cir	Symbol Number 0629 Description gray thin dash lin		MFC036A0629	
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC res	stricted area - outfall, intake	mac=45or46			IHO S-52	SY(INFARE51) + LC(PIPARE61)
	Symbol Number 0082 Description traffic lt magen	ID Code MFC036A0082 ta cir w/ bar	(SIMPLIFIED SYMBOLO	GY SAME	E AS STANDARE) SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/c	ID Code MFC036A0734 hevron line	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC res	stricted area - area to be avoided	mac=43			IHO S-52	SY(ENTRES51) + LC(CTYARE51)
\nearrow	Symbol Number 0085 Description lt magenta fish	ID Code MFC036A0085 w/ intersecting diag line	(SIMPLIFIED SYMBOLO	GY SAME	E AS STANDARE) SYMBOLOGY)
TATT	Symbol Number 0740 Description magenta T dash	ID Code MFC036A0740 n line w/ fish symbol	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC res	stricted area - fishing prohibited	mac=22			IHO S-52	SY(FSHRES51) + LC(FSHRES51)
Z	Symbol Number 0086 Description lt magenta oper	ID Code MFC036A0086 n anchor w/ intrsctng diag line	(SIMPLIFIED SYMBOLO	GY SAME	E AS STANDARE) SYMBOLOGY)
******	Symbol Number 0739 Description magenta T dash	ID Code MFC036A0739 a line w/ anchor symbol	Symbol Number 4186 Description magenta thin das		MFC036A4186	
	ature Description	Symbol Assignment Expr	ession	Orient	Source	Source ID
✓ DNC res	stricted area - anchoring prohibi	ted mac=15			IHO S-52	SY(ACHRES51) + LC(ACHRES51)

<u></u> ?	Symbol Number 0087 Description traffic lt magent	ID Code MFC036A0087 a ! In lg cir w/ magenta ?	(SIMPLIFIED SYMBOLO	GY SAMI	E AS STANDARI	SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/cl	ID Code MFC036A0734 hevron line	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC re	stricted area - to be avoided, other	er mac=0or999			IHO S-52	SY(RSRDEF51) + LC(CTYARE51)
TOD0 re	stricted area				IHO S-52	SY(RSRDEF51) + LC(CTYARE51)
	Symbol Number 0093 Description traffic lt magent	ID Code MFC036A0093 a ! Inside lg circle	(SIMPLIFIED SYMBOLO	GY SAMI	E AS STANDARI	SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/cl	ID Code MFC036A0734 hevron line	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC re	stricted area - safety zone	mac=37			IHO S-52	SY(CTYARE51) + LC(CTYARE51)
	Symbol Number 0094 Description lt magenta angle	ID Code MFC036A0094 ed line	(SIMPLIFIED SYMBOLO	GY SAMI	E AS STANDARI) SYMBOLOGY)
444	Symbol Number 0737 Description magenta dash/cl	ID Code MFC036A0737 hevron line w/ flash symbol	Symbol Number 4186 Description magenta thin das		MFC036A4186	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC re	stricted area - cables	mac=20			IHO S-52	SY(CBLARE51) + LC(CBLARE51)
FC041						FC041
Point	Full Chart			√ Simp	lified	Poin
1	Symbol Number 0088 Description traffic magenta	ID Code MFC041P0088 filled arrow	(SIMPLIFIED SYMBOLO	GY SAMI	E AS STANDARI) SYMBOLOGY)
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC tra	affic separation scheme (TSS)			dof	IHO S-52	SY(TSSLPT51)
Line	Full Chart			√ Simp	lified	Line
	Symbol Number 0620 Description traffic It magent	ID Code MFC041L0620 a very very thick solid line	(SIMPLIFIED SYMBOLO	GY SAMI	E AS STANDARI) SYMBOLOGY)
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
	affic separation scheme (TSS) -	tsp=4			IHO S-52	LS(SOLD,6,TRFCF)
	*					

	Description traffic magenta	thick dash line	(SIMPLII IED STMBOLOGT	SAME	E AS STANDA	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Ori	ient	Source	Source ID
✓ DNC	traffic separation scheme (TSS) - o boundary	outer tsp=2			IHO S-52	LS(DASH,4,TRFCD)
Area	Full Chart		✓	Simp	lified	Area
	Symbol Number 0824 Description traffic lt magent	ID Code MFC041A0824 ta solid fill	(SIMPLIFIED SYMBOLOGY S	SAME	E AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expre	ession Ori	ient	Source	Source ID
✓ DNC	traffic separation scheme (TSS) - separation zone area	tsp=3			IHO S-52	AC(TRFCF,3)
	Symbol Number 0097 Description traffic lt magent	ID Code MFC041A0097 ta! Inside lg circle	(SIMPLIFIED SYMBOLOGY S	SAME	E AS STANDA	ARD SYMBOLOGY)
	Symbol Number 0917 Description traffic lt magent	ID Code MFC041A0917 ta rt diag line patt fill				
Product	Feature Description	Symbol Assignment Expre	ession Ori	ient	Source	Source ID
✓ DNC	traffic separation scheme (TSS) - inbound or outbound area	tsp=6or7			IHO S-52	SY(CTNARE51) + AP(TSSJCT02)
FC100						
						FC100
Line	Full Chart		✓	Simp	lified	FC100
Line		ID Code MFC100L0656 lash line	(SIMPLIFIED SYMBOLOGY S			Line
Line	Symbol Number 0656		(SIMPLIFIED SYMBOLOGY S	SAME		Line
	Symbol Number 0656 Description gray very thin d	ash line	(SIMPLIFIED SYMBOLOGY S	SAME	E AS STANDA	Line
Product	Symbol Number 0656 Description gray very thin d Feature Description	ash line	(SIMPLIFIED SYMBOLOGY S	SAME	E AS STANDA	Line ARD SYMBOLOGY) Source ID
Product ✓ DNC FC101	Symbol Number 0656 Description gray very thin d Feature Description	ash line	(SIMPLIFIED SYMBOLOGY Session Ori	SAME	Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(DASH,1,CHGRD
Product ✓ DNC	Symbol Number 0656 Description gray very thin d Feature Description measured distance line Full Chart	Symbol Assignment Expre	(SIMPLIFIED SYMBOLOGY Session Ori	SAME	Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(DASH,1,CHGRD
Product ✓ DNC FC101	Symbol Number 0656 Description gray very thin d Feature Description measured distance line Full Chart Symbol Number 0684	Symbol Assignment Expre	(SIMPLIFIED SYMBOLOGY Session Ori	Simp	Source IHO S-52	Line ARD SYMBOLOGY) Source ID LS(DASH,1,CHGRD

FC102						FC102
Line	Full Chart			√ Sim	plified	Lin
	Symbol Number 3112 ID O Description black thin solid line	Code MFC102L3112				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
TOD0	range center line				ORIGINAL	3112
FC130						FC130
Line	Full Chart			√ Sim	plified	Lin
	Symbol Number 0663 ID 0 Description traffic magenta thin	Code MFC130L0663 dash line	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	radar reference line				IHO S-52	LS(DASH,2,TRFCD)
FC165						FC16
Point	Full Chart			√ Sim	nlified	Poir
FOIIIL	Full Cliait			♥ Silli	pilileu	FUII
? <u> </u>	Symbol Number 0089 ID 0 Description traffic magenta dash	Code MFC165P0089 ned arrow w/ 2 mgnta ?'s	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	route (maritime) - direction unknown	dof=0			IHO S-52	SY(RTLDEF51)
^ 11 11	Symbol Number 1220 ID Description traffic magenta dash	Code MFC165P1220 ned open arrow	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	route (maritime) - direction known	dof<>0		dof	IHO S-52	SY(RCTLPT52)
Line	Full Chart			√ Sim	plified	Lin
Y DW	Symbol Number 0723 ID 0 Description traffic magenta soli	Code MFC165L0723 d line w/ > and DW	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	route (maritime) - marked;1- way;recomm for deep draft vessels	atn=1 AND exs=22 AND	rtt=3		IHO S-52	LC(DWRTCL08)
_> - DW	Symbol Number 0724 ID 0 Description traffic magenta dash	Code MFC165L0724 n line w/ > and DW	(SIMPLIFIED SYMBOLO	GY SAM	IE AS STANDA	ARD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	route (maritime) - unmarked;1- way;recomm for deep draft vessels	atn=2 AND exs=22 AND	rtt=3		IHO S-52	LC(DWRTCL07)

DW	Symbol Number 0725 ID Co Description traffic magenta solid l	ode MFC165L0725 line w/ <> and DW	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - marked;2- way;recomm for deep draft vessels	atn=1 AND exs=23 AND rtt	=3	IHO S-52	LC(DWRTCL06)
_<->-04	Symbol Number 0726 ID Co Description traffic magenta dash l	ode MFC165L0726 ine w/ <> and DW	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - unmarked;2- way;recomm for deep draft vessels	atn=2 AND exs=23 AND rtt	==3	IHO S-52	LC(DWRTCL05)
_ -D!	Symbol Number 0727 ID Co Description traffic magenta dash I	ode MFC165L0727 ine w/ < ? > and DW	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - unknown;recomm for deep draft vessels	exs=0 AND rtt=3		IHO S-52	LC(DWLDEF01)
7	Symbol Number 0728 ID Co Description gray very thin line w/	ode MFC165L0728 >	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAF	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - marked;1-way;not recomm for deep draft vessels	atn=1 AND exs=22 AND rtt	:⇔3	IHO S-52	LC(RECTRC12)
7	Symbol Number 0729 ID Co Description gray very thin dash lin	ode MFC165L0729 ne w/ >	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - unmarked;1-way;not recomm for deep draft vessels	atn=2 AND exs=22 AND rtt	⇔ 3	IHO S-52	LC(RECTRC11)
	Symbol Number 0730 ID Co Description gray very thin line w/	ode MFC165L0730	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - marked;2-way;not recomm for deep draft vessels	atn=1 AND exs=23 AND rtt	<>3	IHO S-52	LC(RECTRC10)
	Symbol Number 0731 ID Co Description gray very thin dash lin	ode MFC165L0731 ne w/ < >	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAF	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - unmarked;2-way;not recomm for deep draft vessels	atn=2 AND exs=23 AND rtt	<>3	IHO S-52	LC(RECTRC09)
_	Symbol Number 0732 ID Co Description gray very thin dash lin	ode MFC165L0732 ne w/ < ? >	(SIMPLIFIED SYMBOLOGY SAI	ME AS STANDAR	RD SYMBOLOGY)
Product	Feature Description	Symbol Assignment Express	sion Orient	Source	Source ID
✓ DNC	route (maritime) - unknown;not recomm for deep draft vessels	exs=0 AND rtt<>3		IHO S-52	LC(RECDEF02)

Area	Full Chart			√ Simp	olified	Area
(I)	Symbol Number 0097 Description traffic lt mager	ID Code MFC165A0097 nta! Inside lg circle	(SIMPLIFIED SYMBO	LOGY SAMI	E AS STANDARI) SYMBOLOGY)
4 () 4 A	Symbol Number 0742 Description magenta dash/	ID Code MFC165A0742 chevron line w/caution symbol	Symbol Number 0663 Description traffic magen		MFC165A0663 ne	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC ro	ute (maritime) - use unknown	rtt=0			IHO S-52	SY(CTNARE51) + LC(CTNARE51)
?(1)?	Symbol Number 0098 Description traffic magenta	ID Code MFC165A0098 a dash dbl head arrow w/ 2 ?'s	(SIMPLIFIED SYMBO	LOGY SAMI	E AS STANDARI	SYMBOLOGY)
A A A	Symbol Number 0734 Description magenta dash/	ID Code MFC165A0734 chevron line	Symbol Number 0665 Description traffic magen		MFC165A0665	
Product Fe	ature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC ro	ute (maritime) - 2-way	rtt=11			IHO S-52	SY(TWRDEF51) + LC(CTYARE51)
DW ? ?	Symbol Number 1238 Description traffic lt mag I	ID Code MFC165A1238 DW filled arrow btwn 2 mgnta?	(SIMPLIFIED SYMBO	LOGY SAMI	E AS STANDARI) SYMBOLOGY)
~ DW ~	Symbol Number 0741 Description traffic magenta	ID Code MFC165A0741 a dash/chevron line w/ DW	Symbol Number 0661 Description traffic magen		MFC165A0661	
Product Fe	eature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC ro	ute (maritime) - deep water	rtt=4			IHO S-52	SY(DWRTPT51)+SY TSLDEF51) + LC(DWRUTE51)
FC170						FC170
Line	Full Chart			√ Simp	lified	Line
?</td <td>Symbol Number 0732 Description gray very thin</td> <td>ID Code MFC170L0732 dash line w/ < ? ></td> <td>(SIMPLIFIED SYMBO</td> <td>LOGY SAMI</td> <td>E AS STANDARI</td> <td>) SYMBOLOGY)</td>	Symbol Number 0732 Description gray very thin	ID Code MFC170L0732 dash line w/ < ? >	(SIMPLIFIED SYMBO	LOGY SAMI	E AS STANDARI) SYMBOLOGY)
Product Fe	eature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC sa:	fety fairway				IHO S-52	LC(RECDEF02)
Area	Full Chart			√ Simp	lified	Area
-< ? >-	Symbol Number 0091 Description gray? inside a	ID Code MFC170A0091 ingle brackets inside dashes	(SIMPLIFIED SYMBO	LOGY SAMI	E AS STANDARI	SYMBOLOGY)
A A A	Symbol Number 0716 Description gray dash/chev	ID Code MFC170A0716 vron line	Symbol Number 0656 Description gray very thin		MFC170A0656	
Product Fe	ature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC sa:	fety fairway				IHO S-52	SY(RECDEF51) + LC(NAVARE51)
TOD0 sa	fety fairway				IHO S-52	SY(RECDEF51) + LC(NAVARE51)

						F	C177
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 0656 Description gray very		(SIMPLIFIED SYMBOL	_OGY SAM	E AS STANDARI	D SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	swept area				IHO S-52	LS(DASH,1,C	CHGRD
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0095 Description lt gray und	ID Code MFC177A0095 der bar w/ upward bar on ends	(SIMPLIFIED SYMBOL	_OGY SAM	E AS STANDARI	D SYMBOLOG	SY)
1	Symbol Number 0716 Description gray dash/		Symbol Number 0656 Description gray very thin		MFC177A0656		
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	swept area				IHO S-52	SY(SWPARE LC(NAVARE	
FC178						F	C178
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0687 Description purple thic						
	1 1	ck long dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
Product TOD4			ression	Orient	Source HITS	Source ID Para 404.A	
TOD4	Feature Description		ression	Orient		Para 404.A	C179
TOD4 FC179	Feature Description		ression	Orient Simp	HITS	Para 404.A	
TOD4 FC179	Feature Description hull integrity test area	Symbol Assignment Exp ID Code MFC179A1901	ression		HITS	Para 404.A	_
TOD4 FC179	Feature Description hull integrity test area Full Chart Symbol Number 1901	Symbol Assignment Exp ID Code MFC179A1901		√ Simp	HITS	Para 404.A	_
FC179 Area	Feature Description hull integrity test area Full Chart Symbol Number 1901 Description ui It brown	Symbol Assignment Exp ID Code MFC179A1901 n solid fill		√ Simp	HITS	Para 404.A	_
FC179 Area Product TOD4	Feature Description hull integrity test area Full Chart Symbol Number 1901 Description ui It brown Feature Description	Symbol Assignment Exp ID Code MFC179A1901 n solid fill		√ Simp	HITS Diffied Source	Para 404.A Source ID Para 404.D	Are
TOD4 FC179 Area Product TOD4 FC180	Feature Description hull integrity test area Full Chart Symbol Number 1901 Description ui It brown Feature Description	Symbol Assignment Exp ID Code MFC179A1901 n solid fill		√ Simp	HITS Diffied Source HITS	Para 404.A Source ID Para 404.D	Are
TOD4 FC179 Area Product	Feature Description hull integrity test area Full Chart Symbol Number 1901 Description ui It brown Feature Description side scan sonar coverage	ID Code MFC179A1901 n solid fill Symbol Assignment Exp ID Code MFC180P0527		✓ Simple Orient	HITS Diffied Source HITS	Para 404.A Source ID Para 404.D	Are
TOD4 FC179 Area Product TOD4 FC180	Feature Description hull integrity test area Full Chart Symbol Number 1901 Description ui It brown Feature Description side scan sonar coverage Full Chart Symbol Number 0527	ID Code MFC179A1901 n solid fill Symbol Assignment Exp ID Code MFC180P0527	ression	✓ Simp	HITS Diffied Source HITS	Para 404.A Source ID Para 404.D	C179 Area

Line	Full Chart			√ Sim	plified		Line
	Symbol Number 0686 ID C Description purple thick solid lin	ode MFC180L0686					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - not cable, not slope > 10 degrees	htc<>507and<>509			HITS	Para 315	
mmm	Symbol Number 0766 ID C Description purple very thin solid	ode MFC180L0766 I line with inward ticks					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - slope > 10 degrees	htc=507			HITS	Para 315	
~~~	Symbol Number 0767 ID C Description purple broken zig-za	ode MFC180L0767 g line w/ flash symbol					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - cable	htc=509			HITS	Para 315	
Area	Full Chart			<b>√</b> Sim	plified		Area
	Symbol Number 0825 ID C Description 21% purple solid fill	ode MFC180A0825					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - hght not >2m,not slope>10 deg, not cab	htc<>503and<>507and< le	>509		HITS	Para 315	
	Symbol Number 0826 ID C Description 42% purple solid fill	ode MFC180A0826					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - height > 2m	htc=503			HITS	Para 315	
mmm	Symbol Number 0766 ID C Description purple very thin solice	ode MFC180A0766					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - slope > 10 degrees	htc=507			HITS	Para 315	
~~~	Symbol Number 0767 ID C Description purple broken zig-za	ode MFC180A0767 g line w/ flash symbol					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
TOD4	hull integrity test site bottom feature - cable	htc=509			HITS	Para 315	

GA005					GA005
Area	Full Chart		√ Simp	olified	Area
	Symbol Number 0685 Description green thin so	ID Code MGA005A0685 lid line			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	airspace - upper control area	aua=39		OPAREA	
	Symbol Number 0759 Description green thin lin	ID Code MGA005A0759 e w/stagrd dots inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	air lanes/corridors	aua=0or20or36or998		OPAREA	
MINI.	Symbol Number 0760 Description magenta vy the	ID Code MGA005A0760 hin line w/ 3 row vert dots inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	airspace - air defense zone	aua=2		OPAREA	
Mille	Symbol Number 0761 Description green vy thin	ID Code MGA005A0761 line w/3 row vert dots			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	airspace - controlled	aua=9or21or22or23or34or46or70		OPAREA	
	Symbol Number 0762 Description green thin lin	ID Code MGA005A0762 e with ticks inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	airspace - flight information reg	ion aua=13		OPAREA	
a d	Symbol Number 0763 Description green thin lin	ID Code MGA005A0763 e with open tabs inside			
Product	Feature Description	Symbol Assignment Expression	Orient	Source ID	
TOD0	airspace - upper flight informati	on region aua=40		OPAREA	
GA015					GA015
Area	Full Chart		√ Simp	olified	Area
IIIIII	Symbol Number 0764 Description magenta thin	ID Code MGA015A0764 line w/ rt angle ticks inside			
Product	Feature Description	Symbol Assignment Expression	Orient		
TOD0	special use airspace - warning a	rea aul=0or5or6		OPAREA	

	Symbol Number 0765 Description magenta thin lin	ID Code MGA015A0765 the w/ Ift angle ticks inside				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TOD0	special use airspace - prohibited,restricted	aul=2or3			OPAREA	
GA020						GA020
Point	Full Chart			√ Sim	plified	Point
	Symbol Number 0501 Description lights red flare	ID Code MGA020P0501	(SIMPLIFIED SYMBO)	_OGY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	air obstruction light [DNC-specific]			IHO S-52	SY(LIGHTS01)
GA035						GA035
Point	Full Chart			√ Sim	plified	Point
	Symbol Number 0511 Description lg magenta cir	ID Code MGA035P0511	(SIMPLIFIED SYMBO	LOGY SAM	E AS STANDARI	O SYMBOLOGY)
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
✓ DNC	navaids (aeronautical)				IHO S-52	SY(RDOSTA02)
· ·	Symbol Number 0517 Description magenta circle v	ID Code MGA035P0517 with dot in center				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TOD0	navaids (aeronautical) - NDB	nst=17			MIL-STD-2402	1R030P004*
•	Symbol Number 0518 Description magenta hexago	ID Code MGA035P0518 on with dot in center				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TOD0	navaids (aeronautical) - VOR	nst=20			MIL-STD-2402	1R030P007*
	Symbol Number 0519 Description magenta hexago	ID Code MGA035P0519 on in square w/ dot in center				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TOD0	navaids (aeronautical) - VOR/DMI	E nst=21			MIL-STD-2402	1R030P010*
\odot		ID Code MGA035P0520 on, solid outer rectgls, cntr dot				
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID
TODO	id-(ti1) VORTAC	4 22			ODADEA	

OPAREA

nst=22

TOD0

navaids (aeronautical) - VORTAC

	Symbol Number 0521 ID C	Code MGA035P0521					
	Description magenta hexagon, o	pen outer rectgls, entr dot					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
TOD0	navaids (aeronautical) - TACAN	nst=23			OPAREA		
	Symbol Number 0525 ID C Description magenta open very v	Code MGA035P0525 very thin circle					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
TOD0	navaids (aeronautical) - unknown	nst=0			OPAREA		
GA055						GAO	055
Point	Full Chart			√ Simp	plified	Р	Point
Δ	Symbol Number 0522 ID C Description green open triangle	Code MGA055P0522					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
TOD0	waypoint/reporting-calling in point - no compulsory	on wpt<>10			OPAREA		
A	Symbol Number 0523 ID C Description green solid triangle	Code MGA055P0523					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
TOD0	waypoint/reporting-calling in point - compulsory	wpt=10			OPAREA		
GB005						GBO	005
Point	Full Chart			√ Sim	plified	Р	Point
	Symbol Number 0090 ID C Description feature brown outlin	Code MGB005P0090 e of plane inside lg cir	(SIMPLIFIED SYMBOLOG	GY SAM	E AS STANDARI	D SYMBOLOGY)	
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
✓ DNC	airport/airfield				IHO S-52	SY(AIRARE02)	
+	Symbol Number 2267 ID C Description aero-blue airplane	Code MGB005P2267					
Product	Feature Description	Symbol Assignment Exp		Orient	Source	Source ID	
DTOP	airport/airfield - non military; operation				MIL-STD-2402	1U030P001*	
FFD	airport/airfield - civilian, operational	use >8 and >22 AND ex			MIL-STD-2402	1U030P001*	
UVM	airport/airfield - non military; operation	nal use⇔8and⇔22 AND ex use⇔8and⇔22	xs=28		MIL-STD-2402	1U030P001*	
VML0 VML1	airport/airfield - non military airport/airfield - operational; non milita		vc=78		MIL-STD-2402 MIL-STD-2402	1U030P001* 1U030P001*	
VML1	airport/airfield - operational; non milita	•			MIL-STD-2402 MIL-STD-2402	1U030P001*	
					51.02		

†	Symbol Number 2268 ID Concentration of the Description It gray airplane	ode MGB005P2268			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	airport/airfield - not operational	exs<>28		MIL-STD-2402	1U030P001*
FFD	airport/airfield - non-operational	exs<>28		MIL-STD-2402	1U030P001*
UVM	airport/airfield - not operational	exs<>28		MIL-STD-2402	1U030P001*
VML1	airport/airfield - not operational	exs<>28		MIL-STD-2402	1U030P001*
VML2	airport/airfield - not operational	exs<>28		MIL-STD-2402	1U030P001*
†	Symbol Number 2269 ID Conduction Description magenta airplane	ode MGB005P2269			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	airport/airfield - military; operational	use=8or22 AND exs=28		MIL-STD-2402	1U030P001*
FFD	airport/airfield - military, operational	use=8or22 AND exs=28		MIL-STD-2402	1U030P001*
UVM	airport/airfield - military; operational	use=8or22 AND exs=28		MIL-STD-2402	1U030P001*
VML0	airport/airfield - military	use=8or22		MIL-STD-2402	1U030P001*
VML1	airport/airfield - operational; military	use=8or22 AND exs=28		MIL-STD-2402	1U030P001*
VML2	airport/airfield - operational; military	use=8or22 AND exs=28		MIL-STD-2402	1U030P001*
Area	Full Chart		√ s	mplified	Are
	Symbol Number 0822 ID Control of the Description It brown solid fill	ode MGB005A0822	(SIMPLIFIED SYMBOLOGY SA	ME AS STANDAR	D SYMBOLOGY)
Product					
	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
✓ DNC	Feature Description airport/airfield	Symbol Assignment Expr	ession Orien	t Source IHO S-52	Source ID LS(SOLD,1,CHBLK) + AP(AIRARE02)
✓ DNC	airport/airfield	ode MGB005A0600	(SIMPLIFIED SYMBOLOGY SA	IHO S-52	LS(SOLD,1,CHBLK + AP(AIRARE02)
✓ DNC A A A A	Symbol Number 0600 ID Conception black very thin solid	ode MGB005A0600 line ode MGB005A0932		IHO S-52 ME AS STANDAR	LS(SOLD,1,CHBLK + AP(AIRARE02)
	Symbol Number 0600 ID Conception black very thin solid Symbol Number 0932 ID Conception black very thin solid	ode MGB005A0600 line ode MGB005A0932	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR	LS(SOLD,1,CHBLK + AP(AIRARE02)
& & & & &	Symbol Number 0600 ID Conception black very thin solid Symbol Number 0932 ID Conception feature brown airplant	ode MGB005A0600 line ode MGB005A0932 ne patt fill	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR ME AS STANDAR	LS(SOLD,1,CHBLK + AP(AIRARE02) D SYMBOLOGY) D SYMBOLOGY) Source ID
& & & & & & & & & & & & & & & & & & &	airport/airfield Symbol Number 0600 ID Control Description black very thin solid Symbol Number 0932 ID Control Description feature brown airplants Feature Description airport/airfield	ode MGB005A0600 line ode MGB005A0932 ne patt fill	(SIMPLIFIED SYMBOLOGY SA	IHO S-52 ME AS STANDAR ME AS STANDAR t Source	LS(SOLD,1,CHBLK) + AP(AIRARE02) D SYMBOLOGY) D SYMBOLOGY) Source ID LS(SOLD,1,CHBLK)
A A A Product	airport/airfield Symbol Number 0600 ID Concentration black very thin solid Symbol Number 0932 ID Concentration feature brown airplants Feature Description airport/airfield Symbol Number 4183 ID Concentration feature brown airplants Symbol Number 4188 ID Concentration feature brown airplants Symbol Number 4188 ID Concentration feat	ode MGB005A0600 line ode MGB005A0932 ne patt fill Symbol Assignment Expr	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orier	IHO S-52 ME AS STANDAR ME AS STANDAR t Source IHO S-52	LS(SOLD,1,CHBLK + AP(AIRARE02) D SYMBOLOGY) D SYMBOLOGY) Source ID LS(SOLD,1,CHBLK
A A A A A Product ✓ DNC	airport/airfield Symbol Number 0600 ID Concentration black very thin solid Symbol Number 0932 ID Concentration feature brown airplants Feature Description airport/airfield Symbol Number 4183 ID Concentration magenta solid line	ode MGB005A0600 line ode MGB005A0932 ne patt fill Symbol Assignment Expr ode MGB005A4183	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orier	IHO S-52 ME AS STANDAR ME AS STANDAR t Source IHO S-52	LS(SOLD,1,CHBLK + AP(AIRARE02) D SYMBOLOGY) D SYMBOLOGY) Source ID LS(SOLD,1,CHBLK + AP(AIRARE02)
Product ✓ DNC Product	airport/airfield Symbol Number 0600 ID Concentration black very thin solid Symbol Number 0932 ID Concentration feature brown airplants Feature Description airport/airfield Symbol Number 4183 ID Concentration magenta solid line Feature Description	ode MGB005A0600 line ode MGB005A0932 ne patt fill Symbol Assignment Expr ode MGB005A4183	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orier	IHO S-52 ME AS STANDAR ME AS STANDAR t Source IHO S-52	LS(SOLD,1,CHBLK + AP(AIRARE02) D SYMBOLOGY) Source ID LS(SOLD,1,CHBLK + AP(AIRARE02)
Product ✓ DNC Product DTOP	airport/airfield Symbol Number 0600 ID Concentration black very thin solid Symbol Number 0932 ID Concentration feature brown airplants Feature Description airport/airfield Symbol Number 4183 ID Concentration feature beautiful fine feature Description magenta solid line Feature Description airport/airfield	ode MGB005A0600 line ode MGB005A0932 ne patt fill Symbol Assignment Expr ode MGB005A4183	(SIMPLIFIED SYMBOLOGY SA (SIMPLIFIED SYMBOLOGY SA ression Orier	IHO S-52 ME AS STANDAR ME AS STANDAR t Source IHO S-52 t Source MIL-STD-2402	LS(SOLD,1,CHBLK + AP(AIRARE02) D SYMBOLOGY) Source ID LS(SOLD,1,CHBLK + AP(AIRARE02) Source ID 1U030A015

GB010						GI	B010
Point	Full Chart			√ Simp	olified		Point
*	Symbol Number 1012 Description aero blue sol	ID Code MGB010P1012 id filled star					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	airport lighting				MIL-STD-2402	1U040P004	
UVM	airport lighting				MIL-STD-2402	1U040P004	
VML1	airport lighting				MIL-STD-2402	1U040P004	
VML2	airport lighting				MIL-STD-2402	1U040P004	
GB015						GI	B015
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4194 Description aero-blue ver	ID Code MGB015A4194 y thin short dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	apron/hardstand				MIL-STD-2402	1U060A003*	
UVM	apron/hardstand				MIL-STD-2402	1U060A003*	
VML2	apron/hardstand				MIL-STD-2402	1U060A003*	
GB030						GI	B030
Point	Full Chart			√ Simp	olified		Point
H	Symbol Number 1013 Description black "H" ins	ID Code MGB030P1013 side black square					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	helicopter landing pad				MIL-STD-2402	1U025P003	
UVM	helicopter landing pad				MIL-STD-2402	1U025P003	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 3052 Description magenta thin Symbol Number 1612 Description magenta cross	ID Code MGB030A1612					
	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
Product	reature Description	Symbol Assignment Exp	10331011	Official	Source	Source ID	

GB035					G	B035
Point	Full Chart		√ Sim	plified		Point
H	Symbol Number 2271 Description purple "H"	ID Code MGB035P2271 inside cir				
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID	
FFD	heliport			SAE ARP5289		
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 4184 Description magenta ve	ID Code MGB035A4184 ry thin short dash line				
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID	
FFD	heliport			ORIGINAL	4184	
UVM	heliport			ORIGINAL	4184	
GB045					G	B045
Line	Full Chart		√ Sim	plified		Line
	Symbol Number 3073 Description aero-blue th	ID Code MGB045L3073 nin short dash line				
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID	
UVM	overrun/stopway			ORIGINAL	3073	
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 4098 Description purple wide	ID Code MGB045A4098				
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID	
DTOP	overrun/stopway			ORIGINAL	4098	
UVM	overrun/stopway			ORIGINAL	4098	
VML2	overrun/stopway			ORIGINAL	4098	
GB050					G	B050
Line	Full Chart		√ Sim	plified		Line
D-13	Symbol Number 1313 Description purple line	ID Code MGB050L1313 w/ squares				
Product	Feature Description	Symbol Assignment Expres	ssion Orient	Source	Source ID	
UVM	revetment (airfield)			ORIGINAL	1313	

Area	Full Chart			Simp	lified		Area
H-H-H-H	Symbol Number 1512 Description magenta vy t	ID Code MGB050A1512 hin line double ticks					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	revetment (airfield)				MIL-STD-2402	4B090A002	
GB055						G	B055
Point	Full Chart			Simp	lified		Point
0	Symbol Number 2273 Description aero-blue sol	ID Code MGB055P2273 id cir w/ open diag band					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML1	runway - operational	exs=28			MIL-STD-2402	1U160P003	
	Symbol Number 2281 Description gray cir w/ or	ID Code MGB055P2281 pen diag band					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VML1	runway - not operational	exs<>28			MIL-STD-2402	1U160P003	
Line	Full Chart		•	Simp	lified		Line
	Symbol Number 0606 Description feature brown	ID Code MGB055L0606 n solid line	(SIMPLIFIED SYMBOLOGY	/ SAME	E AS STANDARI	D SYMBOLOG	SY)
Product	Feature Description	Symbol Assignment Exp	ression C	Orient	Source	Source ID	
✓ DNC	runway				IHO S-52	LS(SOLD,3,L	ANDF)
	Symbol Number 3069 Description aero-blue ver	ID Code MGB055L3069 y thin solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
UVM	runway				MIL-STD-2402	1U160L006	
VITD	runway				MIL-STD-2402	1U160L006	
VML1	runway				MIL-STD-2402	1U160L006	
Area	Full Chart		-	Simp	lified		Area
	Symbol Number 4089 Description magenta solid	ID Code MGB055A4089 d fill					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	runway				MIL-STD-2402	1U160A006	
FFD	runway				MIL-STD-2402	1U160A006	
UVM	runway				MIL-STD-2402	1U160A006	
VML2	runway				MIL-STD-2402	1U160A006	

	Symbol Number 0600 Description black very the	ID Code MGB055A0600 nin solid line	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)	
	Symbol Number 0804 Description brown solid	ID Code MGB055A0804 fill	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	runway				IHO S-52	LS(SOLD,1,CHBLI + AC(CHBRN)	ζ)
	Symbol Number 3070 Description aero-blue thi	ID Code MGB055A3070 in solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VITD	runway				MIL-STD-2402	1U160A009	
GB065						GB06	5
Point	Full Chart			√ Simp	olified	Ро	int
	Symbol Number 0080 Description magenta soli	ID Code MGB065P0080 id filled diamond inside cir					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
FFD	seaplane base				IHO S-52	SY(PILBOP02)	
Area	Full Chart			√ Simp	olified	Ar	ea
	Symbol Number 4186 Description magenta thin	ID Code MGB065A4186 n dash line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
FFD	seaplane base				ORIGINAL	4186	_
00070						000	
GB070						GB07	U
Line	Full Chart			√ Simp	olified	Li	ne
	Symbol Number 0634 Description magenta ver	ID Code MGB070L0634 y thin dash line	(SIMPLIFIED SYMBOLOG	Y SAM	E AS STANDAR	D SYMBOLOGY)	
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	seaplane landing/seaplane take-	-off area			IHO S-52	LS(DASH,1,CHMC	iD)

Area	Full Chart			√ Simp	olified		Area
	Symbol Number 0093 Description traffic lt mag	ID Code MGB070A0093 enta! Inside lg circle	(SIMPLIFIED SYMBOLO	OGY SAM	E AS STANDARI	D SYMBOLOG	iY)
A A	Symbol Number 0734 Description magenta dash	ID Code MGB070A0734 n/chevron line	Symbol Number 0634 Description magenta very th		MGB070A0634		
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
✓ DNC	seaplane landing/seaplane take-	off area			IHO S-52	SY(CTYARE: LC(CTYARE:	
GB075						GI	B075
Line	Full Chart			√ Simp	olified		Line
	Symbol Number 3070 Description aero-blue thi	ID Code MGB075L3070 n solid line					
Product	Feature Description	Symbol Assignment Exp	pression	Orient	Source	Source ID	
UVM	taxiway				MIL-STD-2402	1U200L002	
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 3070 Description aero-blue thi	ID Code MGB075A3070 n solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
DTOP	taxiway				MIL-STD-2402	1U200A002	
UVM	taxiway				MIL-STD-2402	1U200A002	
VML2	taxiway				MIL-STD-2402	1U200A002	
SA010						S	A010
Area	Full Chart			√ Simp	olified		Area
	Symbol Number 4265 Description basic blue th	ID Code MSA010A4265 in solid line					
Product	Feature Description	Symbol Assignment Exp	ression	Orient	Source	Source ID	
VITD					ORIGINAL	4265	
	common open water				ORIGINAL	4203	
SA020	common open water				ORIGINAL		A020
SA020 Area	common open water Full Chart			√ Simp			A020 Area
	·	ID Code MSA020A4203 ne w/ two dashes		√ Simp			
	Full Chart Symbol Number 4203		ression	✓ Simp Orient	Nified		

SA030					5	SA030
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 4202 ID C Description depth gray thin dotte	d line				
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
VITD	exposed bedrock			ORIGINAL	4202	
SA040					9	SA040
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 1655 ID C Description basic blue thin dash					
Product	Feature Description	Symbol Assignment Expression	Orient	Source	Source ID	
VITD	permanent snowfield			ORIGINAL	1655	
SA050					9	SA050
Area	Full Chart		√ Sim	plified		Area
	Symbol Number 0803 ID C Description yellow green solid fi	ode MSA050A0803				
Product	Feature Description	Crymbal Assignment Erroression	0: 4	Source	a rp	
VITD		Symbol Assignment Expression	Orient	Source	Source ID	
	slope polygon - 0 to >45%, dissected	gsc=1	Orient	ORIGINAL	0803	
			Orient			
Product	Symbol Number 1601 ID C	gsc=1				
Product DTOP	Symbol Number 1601 ID C Description red solid fill	gsc=1 Fode MSA050A1601		ORIGINAL	0803	
	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon - > 60% and <= 85%	gsc=1 Code MSA050A1601 Symbol Assignment Expression		ORIGINAL	0803 Source ID	
	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon -> 60% and <= 85% Symbol Number 1901 ID C	gsc=1 Pode MSA050A1601 Symbol Assignment Expression spr=7	Orient	ORIGINAL	0803 Source ID	
DTOP	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon - > 60% and <= 85% Symbol Number 1901 ID C Description ui lt brown solid fill Feature Description slope polygon - > 10% and <= 15%	gsc=1 Fode MSA050A1601 Symbol Assignment Expression spr=7 Fode MSA050A1901	Orient	ORIGINAL Source ORIGINAL	0803 Source ID 1601	
DTOP	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon -> 60% and <= 85% Symbol Number 1901 ID C Description ui It brown solid fill Feature Description	gsc=1 Fode MSA050A1601 Symbol Assignment Expression spr=7 Fode MSA050A1901 Symbol Assignment Expression	Orient	ORIGINAL Source ORIGINAL Source	Source ID 1601 Source ID	
DTOP Product DTOP	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon -> 60% and <= 85% Symbol Number 1901 ID C Description ui It brown solid fill Feature Description slope polygon -> 10% and <= 15% slope polygon -> 10% and <= 20%	gsc=1 Code MSA050A1601 Symbol Assignment Expression spr=7 Code MSA050A1901 Symbol Assignment Expression spr=2	Orient	Source ORIGINAL Source ORIGINAL	Source ID 1601 Source ID 1901	
DTOP Product DTOP	Symbol Number 1601 ID C Description red solid fill Feature Description slope polygon -> 60% and <= 85% Symbol Number 1901 ID C Description ui It brown solid fill Feature Description slope polygon -> 10% and <= 15% slope polygon -> 10% and <= 20% Symbol Number 1902 ID C	gsc=1 Code MSA050A1601 Symbol Assignment Expression spr=7 Code MSA050A1901 Symbol Assignment Expression spr=2 gsc=4	Orient	Source ORIGINAL Source ORIGINAL ORIGINAL	Source ID 1601 Source ID 1901	

		711 211			
	Symbol Number 1903 ID C Description rose solid fill	Code MSA050A1903			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - > 20% and <= 30%	spr=4		ORIGINAL	1903
VITD	slope polygon - $> 20\%$ and $<= 30\%$	gsc=5		ORIGINAL	1903
	Symbol Number 1904 ID C Description golden yellow solid	Code MSA050A1904 fill			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - $> 30\%$ and $<= 45\%$	spr=5		ORIGINAL	1904
VITD	slope polygon - > 30% and \leq 45%	gsc=6		ORIGINAL	1904
(white)	Symbol Number 1905 ID C Description basic white solid fill	Code MSA050A1905			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - % unknown	spr=999		ORIGINAL	1905
VITD	slope polygon - % unknown	gsc=0		ORIGINAL	1905
	Description lt red brown solid fil				g ID
Product	Feature Description	Symbol Assignment Expr	ression Orien		Source ID
DTOP	slope polygon - > 85%	spr=8		ORIGINAL	1906
	Symbol Number 4002 ID C Description It beige solid fill	Code MSA050A4002			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - <= 3%	spr=0		ORIGINAL	4002
VITD	slope polygon - <= 3%	gsc=2		ORIGINAL	4002
	Symbol Number 4003 ID Control Description beige solid fill	Code MSA050A4003			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - $> 3\%$ and $<= 10\%$	spr=1		ORIGINAL	4003
VITD	slope polygon - > 3% and $\leq 10\%$	gsc=3		ORIGINAL	4003
	Symbol Number 4175 ID C Description It orange solid fill	Code MSA050A4175			
Product	Feature Description	Symbol Assignment Expr	ression Orien	t Source	Source ID
DTOP	slope polygon - > 45% and <= 60%	spr=6		ORIGINAL	4175
VITD	slope polygon - > 45%	gsc=7		ORIGINAL	4175

SA060				SA060
Line	Full Chart		✓ Simplified	Line
	Symbol Number 3117 Description black thin das	ID Code MSA060L3117 h line		
Product	Feature Description	Symbol Assignment Expression	Orient Source	Source ID
VITD	covered drainage		MIL-STD-2402	2H020L018
SU001				SU001
Point	Full Chart		√ Simplified	Point
M	Symbol Number 2274 Description magenta M in	ID Code MSU001P2274 side cir		
Product	Feature Description	Symbol Assignment Expression	Orient Source	Source ID
VML0	military base		ORIGINAL	2274
Area	Full Chart		✓ Simplified	Area
	Symbol Number 3104 Description red solid line	ID Code MSU001A3104		
Product	Feature Description	Symbol Assignment Expression	Orient Source	Source ID
VML0	military base		ORIGINAL	3104
ZB020				ZB020
Point	Full Chart		√ Simplified	Point
<u>•</u>	Symbol Number 2279 Description black triangle	ID Code MZB020P2279 w/ dot inside		
Product	Feature Description	Symbol Assignment Expression	Orient Source	Source ID
UVM	benchmark		ORIGINAL	2279
ZB030				ZB030
Point	Full Chart		✓ Simplified	Point
•	Symbol Number 2278 Description black dot in s	ID Code MZB030P2278 quare		
Product	Feature Description	Symbol Assignment Expression	Orient Source	Source ID
DTOP	boundary monument		MIL-STD-2402	9B030P001
VML2	boundary monument		MIL-STD-2402	9B030P001

ZB035						ZB035
Point	Full Chart			√ Simp	olified	Poin
0	Symbol Number 0078 Description black sm cir	ID Code MZB035P0078				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
TOD0	control point/control station				IHO S-52	SY(POSGEN04)
<u> </u>	Symbol Number 2279 Description black triangle	ID Code MZB035P2279 e w/ dot inside				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
DTOP	control point/control station				MIL-STD-2402	9B035P001
UVM	control point/control station				MIL-STD-2402	9B035P001
VML1	control point/control station				MIL-STD-2402	9B035P001
VML2	control point/control station				MIL-STD-2402	9B035P001
Area	Symbol Number 0733 Description lt magenta op	ID Code MZC040A0733 sen flag	(SIMPLIFIED SYMBOL	Simp		Area D SYMBOLOGY)
1	Symbol Number 0716 Description gray dash/che	ID Code MZC040A0716 evron line	Symbol Number 0656 Description gray very thin		MZC040A0656	
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
✓ DNC	magnetic disturbance area				IHO S-52	SY(LOCMAG51) + LC(NAVARE51)
VML1	magnetic disturbance area				IHO S-52	SY(LOCMAG51) + LC(NAVARE51)
ZD003						ZD003
Line	Full Chart			√ Simp	olified	Line
	Symbol Number 0600 Description black very th	ID Code MZD003L0600 in solid line				
Product	Feature Description	Symbol Assignment Expr	ression	Orient	Source	Source ID
		- J				

ZD020					ZD	020
Area	Full Chart		√ Sim	plified	,	Area
	Symbol Number 3082 Description gray very tl Symbol Number 4105 Description lt gray rt di	ID Code MZD020A4105				
Product	Feature Description	Symbol Assignment Exp	ression Orient	Source	Source ID	
DTOP	void collection area			ORIGINAL	3082 4105	
FFD	void collection area			ORIGINAL	3082 4105	
TOD0	void collection area			ORIGINAL	3082 4105	
TOD1	void collection area			ORIGINAL	3082 4105	
TOD2	void collection area			ORIGINAL	3082 4105	
TOD4	void collection area			ORIGINAL	3082 4105	
VML0	void collection area			ORIGINAL	3082 4105	
VML1	void collection area			ORIGINAL	3082 4105	
VML2	void collection area			ORIGINAL	3082 4105	

TEXT LABEL ASSIGNMENTS

B.1 SCOPE

B.1.1 $\underline{\text{Scope}}$. This appendix presents the text label information that is contained within the GeoSym symbology assignment tables. It is a mandatory part of the specification. The information contained herein is intended for compliance.

B.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

B.3 TEXT LABELS IN GEOSYM

GeoSym contains the ability to assign a text label to augment the graphic symbology assignment. This is accomplished via the "labatt" column of the symbology assignment file. If this column is populated with one or more attribute values, then the value contained in the attribute(s) should be placed according to the instructions contained in the various text label assignment files table (see section 3.5.3.1.3). Appendix B is sorted by fcode, delineation, and VPF product. Refer to MIL-HDBK-857 for instructions on how to use the text labeling information to place a text label for a point, line, or area feature.

Text Label Assignments

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
		<u> </u>						<u> </u>		(0,
AA0	10									AA010
Poi	nt									
DTOP	mine - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	mine - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	mine/quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	mine/quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Lin	е									
UVM	mine - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea									
DTOP	mine - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	mine - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	mine/quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	mine/quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
AA0	12									AA012
Poi	nt									
UVM	quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Lin	е									
UVM	quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea									
UVM	quarry - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
AA0	50									AA050
Poi	nt									
DTOP	well- name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	well - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	well - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	well - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
AC0	00									AC000
Poi	nt									
DTOP	processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1	processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2	processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90

t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
ea									
processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
processing plant/treatment plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
30									AC030
settling basin/sludge pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
10									AD010
nt									
	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
ea									
power plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
power plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
power plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
power plant - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
30									AD030
nt									
substation/transformer yard - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
ea									
substation/transformer yard - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
10									AH010
nt									
bastion/rampart/fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
е									
bastion/rampart/fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
ea									
bastion/rampart/fortification -	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
	processing plant/treatment plant - name label 30 ea settling basin/sludge pond - name label 10 nt power plant - name label 10 nt substation/transformer yard - name label ea bastion/rampart/fortification - name label	processing plant/treatment plant - name label 30 a1 settling basin/sludge pond - nam<>"UNK" power plant - name label nam<>"UNK" a2 substation/transformer yard - nam<>"UNK" 10 nt bastion/rampart/fortification - nam<>"UNK" name label e bastion/rampart/fortification - nam<>"UNK" name label	Expression Attribute In am = "UNK" In am In	processing plant/treatment plant - name label nam<>"UNK" nam Sans Serif plant - name label nam<>"UNK" nam Sans Serif processing plant/treatment plant - name label nam<>"UNK" nam Sans Serif name label nam "UNK" nam Sans Serif name label nam</"UNK" nam Sans Serif name label n</td <td>Expression Attribute Processing plant/treatment plant - name label processing plant/treatment nam<>"UNK" nam Sans Serif Normal state processing plant/treatment plant - name label 10 nt power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal nam 30 nt substation/transformer yard - nam 310 nt substation/transformer yard - nam 32 33 34 35 35 36 37 38 39 30 10 10 10 10 10 10 10 10 10</td> <td>Expression Attribute Expression Attribute </td> <td>Expression Attribute Processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black label label</td> <td>Expression Attribute (pts) a processing plant/treatment plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label processing plant/treatment plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 nam<->"UNK" nam Sans Serif Normal center center black 10 nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal bottom left black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Nor</td> <td>Expression Attribute</td>	Expression Attribute Processing plant/treatment plant - name label processing plant/treatment nam<>"UNK" nam Sans Serif Normal state processing plant/treatment plant - name label 10 nt power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal power plant - name label nam<>"UNK" nam Sans Serif Normal nam 30 nt substation/transformer yard - nam 310 nt substation/transformer yard - nam 32 33 34 35 35 36 37 38 39 30 10 10 10 10 10 10 10 10 10	Expression Attribute Expression Attribute	Expression Attribute Processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment plant - name label nam <>"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant/treatment nam <"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black processing plant name label nam <>"UNK" nam Sans Serif Normal center center black label label	Expression Attribute (pts) a processing plant/treatment plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label processing plant/treatment plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 power plant - name label nam<->"UNK" nam Sans Serif Normal center center black 10 nam<->"UNK" nam Sans Serif Normal center center black 10 nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal bottom left black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Normal center center black 10 name label nam<->"UNK" nam Sans Serif Nor	Expression Attribute

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AH0	50									AH050
Poi	nt									
DTOP	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
UVM	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Lin _{UVM}	e fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	a I									
DTOP	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	fortification - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AH0	1									AH060
Poi UVM	nt underground bunker - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Lin	e underground bunker - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	underground bunker - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AJ0:	1									AJ030
	feedlot/stockyard/holding pen - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK0	1									AK030
DTOP	amusement park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	amusement park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	amusement park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK0										AK040
DTOP	athletic field - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	hlack	10	0	0
UVM	athletic field - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VML2	athletic field - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VIVILZ	admotio nola - name label	nums ont	nam Page :		Nonnal	ochici centel	DIGON	10	<u> </u>	

Product	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AK0	60									AK060
Are	a									
DTOP	campground/campsite - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	campground/campsite - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	campground/campsite - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK0	90									AK090
Are	a									
DTOP	fairgrounds - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	fairgrounds - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	fairgrounds - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK1	-									AK100
DNC	golf course - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DTOP	golf course - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	golf course - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	golf course - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK1	20									AK120
Are	a									
DNC	park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DTOP	park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK1 Lin										AK130
DTOP	race track - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	race track - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VML1	race track - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VML2	race track - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
Are	_						-	-	-	-
UVM	race track - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AK1	60									AK160
Poi	nt									
VML1	stadium/amphitheater - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	a									
DTOP	stadium/amphitheater - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	stadium/amphitheater - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	stadium/amphitheater - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AK1	80									AK180
Are	1									AITIOU
DNC	zoo/safari park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DTOP	zoo/safari park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	zoo/safari park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	zoo/safari park - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL0	15 _.									AL015
Poi	nt									
DNC	building - not maritime station, light label	bfc<>81 AND col<>"UNK"	col	Sans Serif	Normal	center left	black	10	4	90
DNC	building - maritime station - sound signal label	bfc=81 AND sst<>0and<>16	sst	Sans Serif	Normal	center right	black	10	6	270
DTOP	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
UVM	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Lin	е									
DTOP	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea									
DTOP	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
	••									
AL0										AL020
Poi				0 0 15	N1	h-44. 1. **	L	4.0	•	22
DNC	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
			D							

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
VML0	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	ea l									
FFD	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML0	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	built-up area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL0	30									AL030
Poi										
UVM	cemetery - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	ea l									
DTOP	cemetery - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	cemetery - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	cemetery - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL0	45									AL045
Are										112010
FFD	complex outline - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	complex outline - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL1	05									AL105
Poi										
VML2	settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	ea l									
FFD	settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL1	20									AL120
Poi										/12120
UVM	missile site - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Lin	e									
UVM	missile site - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	_						-		-	-
UVM	missile site - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
2.111				34		20	2.2011			
AL1	30									AL130
Poi										ALISO
DTOP	monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
5.01	monument numeraber	num - Onix	Halli	Julio Ocili	Homiai	JOHO III ICIL	DIGUN	10	<u> </u>	

Produc	t Feature Description	Symbol Assignment	Label	Font	Style	Justification	Color	Size	Distance	Direction
110000	t i dataro Bodonption	Expression	Attribute		- 1,10			(pts)	(mm)	(az. deg)
UVM	monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	ea									
UVM	monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL1	35									AL135
Poi										
UVM	native settlement - name	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML0	native settlement - name	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VIVILU	label	nam<> onn	Halli	Salis Selli	Nomai	bottom leit	DIACK	10		90
Are	ea									
FFD	native settlement - name	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
	label									
UVM	native settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML0	native settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	native settlement - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL1	70									AL170
Are	1									712170
DTOP	plaza/city square - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	plaza/city square - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	plaza/city square - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
	· · · · · · · · · · · · · · · · · · ·									
AL2	00									AL200
Poi	nt									, 12200
UVM	ruins - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	ea									
DTOP	ruins - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	ruins - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	ruins - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AL2	40									AL240
Poi	nt									
DNC	tower - light label	col<>"UNK"	col	Sans Serif	Normal	center left	black	10	4	90

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AL2	50									AL250
Are	ea									
UVM	underground dwelling - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AM0 Poi										AM010
UVM	depot (storage) - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	ea									
UVM	depot (storage) - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AMO)20									AM020
Poi	nt									
UVM	grain bin/silo - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	ea									
UVM	grain bin/silo - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AM0										AM030
Poi										
UVM	grain elevator - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are										
UVM	grain elevator - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AMO										AM040
Are		nam<>"UNK"	nom	Cana Carif	Normal	contar contar	blook	10	0	0
UVM	mineral pile - name label	Hallicy UNK	nam	Sans Serif	Normal	center center	DIACK	10	0	
AMO)en									A B40C0
Poi										AM060
UVM	storage bunker/storage	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
	mound - name label									
Are	ea									
UVM	storage bunker/storage mound - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AMO	70									AM070
Poi										
DNC	tank - light label	col<>"UNK"	col	Sans Serif	Normal	center left	black	10	4	90
UVM	tank - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90

Product Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
Area							. ,	, ,	(3 3 3)
UVM tank - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AM080									AM080
Point									
UVM water tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Area									
UVM water tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AN010									AN010
Line									
UVM railroad - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1 railroad - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2 railroad - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AN060									AN060
Area									
UVM railroad yard/marshaling yard - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AN075									AN075
Area									
UVM railroad turntable - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AP020									AP020
Line									
UVM interchange - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Area									
UVM interchange - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AP030									AP030
Line									
UVM road - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1 road - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2 road - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Area									
UVM road - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AP0	40									AP040
Poi	nt									
UVM	gate - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
AQ0	40									AQ040
Poi	nt									
UVM	bridge/overpass/viaduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
Lin	е									
DNC	bridge/overpass/viaduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	bridge/overpass/viaduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea l									
DNC	bridge/overpass/viaduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	bridge/overpass/viaduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AQ0 Poi		nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	AQ060
OVIVI	Control tower - Hame label	nam× ont	Halli	Sans Sem	Normai	bottom leit	Diack	10		30
AQ0										AQ070
Poi										
UVM	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
VML1	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
VML2	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
Lin	е									
UVM	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	ferry crossing - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
400	100									4.0000
AQ0 Poi										AQ090
UVM	entrance/exit - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
AQ1	10									۸0440
Poi										AQ110
UVM	mooring mast - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90

Product Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AQ125									AQ125
Point									
UVM station (miscellaneous) - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Area									
UVM station (miscellaneous) - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AQ130									AQ130
Point									AQIJU
DTOP tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
FFD tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1 tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2 tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Line									
DTOP tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FFD tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1 tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2 tunnel - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AQ150									AQ150
Area									
UVM flight of steps - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AT020									AT020
Point									
UVM early warning radar site -	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
name label									
Line			0 0 11				4.0	•	•
UVM early warning radar site - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Area									
UVM early warning radar site -	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
name label									
AT040									AT040
Point									
UVM power transmission pylon - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Hame layer									

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
AT0										AT045
Poi UVM	nt radar transmitter - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
Lin	_	nam<> one	Halli	Salis Selli	INOITHAL	bottom leit	DIACK	10		90
UVM	radar transmitter - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	radar transmitter - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AT0										AT050
Poi DTOP	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	ea									
DTOP	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	communication building - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
AT0	70									AT070
Poi										
UVM	telephone-telegraph pylon/pole - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
AT0	8 0									AT080
Poi										A1000
DNC	communication tower - light	col<>"UNK"	col	Sans Serif	Normal	center left	black	10	4	90
DTOP	communication tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
UVM	communication tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	communication tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	communication tower - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
BA0	30									BA030
Are	ea									
FFD	island - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment	Label	Font	Style	Justification	Color	Size	Distance	Direction
Todac	Treature Description	Expression	Attribute		Otylo	ododinoddon	00.01	(pts)	(mm)	(az. deg)
UVM	island - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	island - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BA0	40									BA040
Are	a									
FFD	water (except inland) - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	water (except inland) - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML0	water (except inland) - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BA0	50									BA050
Are	a									
UVM	beach - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BB0	10									BB010
Poi	nt									
DNC	anchorage - anchoring berth - name label	mac=12 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Are	a									
DNC	anchorage - anchoring berth - name label	mac=12 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	5	90
BB0	20									BB020
Poi	nt									
DNC	berth - ber label	ber<>"UNK"	ber	Sans Serif	Normal	bottom left	black	10	4	90
BB0	50									BB050
Poi	nt									
DNC	calling-in point - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	7	90
BB1										BB170
Poi										
DNC	offshore loading facility - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	45
Are	a									
DNC	offshore loading facility - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BC0	10									BC010
Poi										
DNC	beacon - color label (abbreviated)	ccc<>0	ccc	Sans Serif	Normal	bottom right	black	10	11	300
	·		D (200						

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	beacon - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom right	black	10	10	270
DNC	beacon - sound signal label	sst<>0and<>16	sst	Sans Serif	Normal	bottom right	black	10	11	250

BC										BC02
Po	int									
DNC	buoy - color label (abbreviated)	ccc<>0	ccc	Sans Serif	Normal	bottom right	black	10	11	300
DNC	buoy - light label - col	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,eol (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,eol,lvn (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	col,eol, Ivn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,eol,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,eol, lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,eol,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,eol, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,lvn (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col,per	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,eol (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,per, eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,eol,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, eol,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,eol,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0and<>NULL AND eol<>0and<>NULL AND lvn<>0and<>NULL AND mlr<>"UNK"and<>NULL	col,per, eol,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90

Product	Feature Description	Symbol Assignment Expression	Label Font Attribute	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	buoy - light label - col,per,eol,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, Sans S eol,mlr	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, Sans S lvn	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,per, Sans S lvn,mlr	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - col,per,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, Sans S mlr	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - eol	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	eol Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - eol,lvn (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	eol,lvn Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - eol,lvn,mlr (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	eol,lvn, Sans S mlr	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - eol,mlr (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	eol,mlr Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - lvn	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	Ivn Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - lvn,mlr (concatenated)	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	lvn,mlr Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - mlr	col="UNK" AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	mlr Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - name label	nam<>"UNK"	nam Sans S	erif Normal	bottom right	black	10	10	270
DNC	buoy - light label - per	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mir="UNK"orNULL	per Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,eol (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mir="UNK"orNULL	per,eol Sans S	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,eol,lvn (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mir="UNK"orNULL	per,eol, Sans S lvn	erif Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,eol,lvn,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,eol, Sans S lvn,mlr	erif Normal	bottom left	black	10	10	90

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	buoy - light label - per,eol,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL		Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,lvn (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	per,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,lvn,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - light label - per,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	per,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	buoy - sound signal label	sst<>0and<>16	sst	Sans Serif	Normal	bottom right	black	10	11	250

BC)40									BC040
Po	int									
DNC	light - color label (abbreviated)	ccc<>0	ccc	Sans Serif	Normal	bottom right	black	10	11	300
DNC	light - light label - col	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,eol (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,eol,lvn (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	col,eol, Ivn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,eol,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,eol, lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,eol,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,eol, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,lvn (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col,per	Sans Serif	Normal	bottom left	black	10	10	90

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	light - light label - col,per,eol (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,per, eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,eol,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, eol,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,eol,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0and<>NULL AND eol<>0and<>NULL AND lvn<>0and<>NULL AND mlr<>"UNK"and<>NULL	col,per, eol,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,eol,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, eol,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,per, lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - eol	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light (concatenated) light label only eol,lvn	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	eol,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light(concatenated) light label w/o col,per	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	eol,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - eol,mlr (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	eol,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - lvn	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - lvn,mlr (concatenated)	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - mlr	col="UNK" AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom right	black	10	10	270
DNC	light - light label - per	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	per	Sans Serif	Normal	bottom left	black	10	10	90

Produc	ct Feature Description	Symbol Assignment	Label	Font	Style	Justification	Color	Size	Distance	Direction
	·	Expression	Attribute	Э				(pts)	(mm)	(az. deg)
DNC	light - light label - per,eol (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	per,eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,eol,lvn (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	per,eol, Ivn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,eol,lvn,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,eol, lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,eol,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	per,eol, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,lvn (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	per,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,lvn,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - per,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	per,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - sound signal label	sst<>0and<>16	sst	Sans Serif	Normal	bottom right	black	10	11	250
BC (BC050
UVM	lighthouse - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
BC (BC070
DNC	lightship - light label - col	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label -	col<>"UNK"and<>NULL AND per=0 AND eol<>0	col,eol,	Sans Serif	Normal	bottom left	black	10	10	90
	col,eol,lvn (concatenated)	AND lvn<>0 AND mlr="UNK"orNULL	IVII							
DNC	lightship - light label - col,eol,lvn,mlr (concatenated)	AND ivn<>0 AND		Sans Serif	Normal	bottom left	black	10	10	90

Produc	t Feature Description	Symbol Assignment Expression	Label Fo	nt :	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	lightship - light label - col,lvn (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,lvn San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,lvn, San mlr	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,mlr (concatenated)	col<>"UNK"and<>NULL AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,mlr San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr="UNK"orNULL	col,per San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,eol (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	col,per, Sane	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,eol,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, San eol,lvn	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,eol,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0and<>NULL AND eol<>0and<>NULL AND lvn<>0and<>NULL AND lvn<>0and<>NULL AND mlr<>"UNK"and<>NULL	col,per, San eol,lvn, mlr	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,eol,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, San eol,mlr	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,lvn (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	col,per, San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,lvn,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	col,per, San lvn,mlr	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - col,per,mlr (concatenated)	col<>"UNK"and<>NULL AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	col,per, San mlr	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - eol	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	eol San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - eol,lvn (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	eol,lvn San	s Serif I	Normal	bottom left	black	10	10	90
DNC	lightship - light label - eol,lvn,mlr (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	eol,lvn, San mlr	s Serif I	Normal	bottom left	black	10	10	90

Product	Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DNC	lightship - light label - eol,mlr (concatenated)	col="UNK" AND per=0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	eol,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - lvn	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr="UNK"orNULL	lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - lvn,mlr (concatenated)	col="UNK" AND per=0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	lvn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - mlr	col="UNK" AND per=0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light vessel/lightship - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom right	black	10	10	270
DNC	lightship - light label - per	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mir="UNK"orNULL	per	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,eol (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mlr="UNK"orNULL	per,eol	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,eol,lvn (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mlr="UNK"orNULL	per,eol, Ivn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light - light label - col,per,eol,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,eol, Ivn,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,eol,mlr (concatenated)	col="UNK" AND per<>0 AND eol<>0 AND lvn=0 AND mlr<>"UNK"and<>NULL	per,eol, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,lvn (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mir="UNK"orNULL	per,lvn	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,lvn,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn<>0 AND mlr<>"UNK"and<>NULL	per,lvn, mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	lightship - light label - per,mlr (concatenated)	col="UNK" AND per<>0 AND eol=0 AND lvn=0 AND mlr<>"UNK"and<>NULL	per,mlr	Sans Serif	Normal	bottom left	black	10	10	90
DNC	light vessel/lightship - sound signal label	sst<>0and<>16	sst	Sans Serif	Normal	bottom right	black	10	11	250

BD0	05									BD005
Poi	nt miscellaneous underwater	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
	feature - name label									
TOD2	miscellaneous underwater feature - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
		Expression	7 111110 0110					(610)	()	(uz. deg)
BD1	10									BD110
Poi										טוועם
DNC	platform - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	45
DNC	platform - sound signal label	sst<>0and<>16	sst	Sans Serif	Normal	center right	black	10	6	270
DIVO	piationn - sound signal label	33t 4 Dana 47 TO	331	Odris Octil	Normal	center right	Diack	10		210
DD4	20									DD400
BD1										BD120
Lin		nom <> "I INI//"	2000	Cana Carif	Normal	contar contar	blook	10	0	0
VML1	reef - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	DIACK	10	U	
Are										
VML1	reef - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BD1										BD130
Poi	nt									
DTOP	rock - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	rock - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	rock - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
BD1	80									BD180
Poi	nt									
TOD1	wreck - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
TOD2	wreck - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
BE0	20									BE020
Poi	nt									
DNC	drying height text (dark)	hdh>=0 AND hdp=NULL	hdh	Sans Serif	Normal	sounding text	sounding	10	0	0
DNC	sounding text (dark) - shallower than ssdc	hdp<=ssdc AND hdh=NULL	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
DNC	sounding text (light) - deeper than ssdc	hdp>ssdc AND hdh=NULL	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
TOD1	sounding text (dark) - shallower than 200m	hdp<200	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
TOD1	sounding text (light) - deeper than 200m	hdp>=200	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
TOD2	sounding text (dark) - shallower than 200m	hdp<200	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
		hdp>=200	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
TOD2	sounding text (light) - deeper than 200m	·								
TOD2 TOD4		hdp<123	hdp	Sans Serif	Normal	sounding text	sounding	10	0	0
	than 200m sounding text (dark) -	·	hdp	Sans Serif	Normal	sounding text			0	0

Product	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
BF0	10									BF010
Poi	nt									
DNC	bottom characteristics - label mcc only	mcc<>0 AND psc=0	mcc	Sans Serif	Normal	center center	black	10	0	0
DNC	bottom characteristics - label psc only	psc<>0 AND mcc=0	psc	Sans Serif	Normal	center center	black	10	0	0
DNC	bottom characteristics - label psc and mcc (concatenated)	psc<>0 AND mcc<>0	psc,mc c	Sans Serif	Normal	center right	black	10	0	0
BF0	19									BF012
Poi										DI 012
TOD4	hull integrity test site core site - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
BG0	10									BG010
Poi										BGUIU
	current flow - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	7	90
BH0										BH010
Poi	nt									
UVM	aqueduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Lin	е									
UVM	aqueduct - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BH0										BH020
Lin	е									
UVM	canal - name label	nam<>"UNK"	nam	Sans Serif	Normal		black	10	0	0
VML1	canal - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
	canal - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	DIACK	10	0	0
Are				0 0 "	NI.		h. I I	40	•	•
UVM	canal - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VML2	canal - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	DIACK	10	0	0
BH0	40									BH040
Are	a									
UVM	filtration beds/aeration beds - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
ВНО	50									BH050
Are										БПОЭО
UVM	fish hatchery/fish farm/marine farm - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
вно	75									BH075
Poi	nt									
UVM	fountain - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	ea									
UVM	fountain - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BH0	80									BH080
Are										
DTOP	lake/pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FFD	lake/pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	lake/pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	lake/pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	lake/pond - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
ВН1	1									BH100
Are	1									
	1	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	BH100 0
Are UVM	moat - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are UVM BH1	moat - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	
UVM BH1 Are	moat - name label	nam<>"UNK"	nam	Sans Serif Sans Serif	Normal	center center		10	0	0
UVM BH1 Are	moat - name label						black			0 BH130
Are DTOP	moat - name label 30 ea reservoir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0 BH130 0
BH1 Are DTOP	moat - name label 30 ea reservoir - name label reservoir - name label	nam<>"UNK" nam<>"UNK"	nam nam	Sans Serif Sans Serif	Normal Normal	center center	black black black	10	0	0 BH130 0 0
BH1 Are DTOP FFD UVM	moat - name label 30 ea reservoir - name label reservoir - name label reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam	Sans Serif Sans Serif Sans Serif	Normal Normal	center center center center center center	black black black black	10 10 10	0 0 0	0 BH130 0 0 0 0
BH1 Are DTOP FFD UVM VML1 VML2	moat - name label 30 reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal	center center center center center center	black black black black	10 10 10	0 0 0 0	0 BH130 0 0 0 0 0
BH1 Are DTOP FFD UVM VML1 VML2	moat - name label 30 ea reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal	center center center center center center	black black black black	10 10 10	0 0 0 0	0 BH130 0 0 0 0 0
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin	moat - name label 30 ea reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal Normal	center	black black black black black	10 10 10 10 10	0 0 0 0	0 BH130 0 0 0 0 0 0 BH140
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin UVM	moat - name label 30 ea reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal Normal	center	black black black black black	10 10 10 10 10	0 0 0 0 0	0 BH130 0 0 0 0 0 BH140
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin UVM VML1	moat - name label 30 ca reservoir - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal Normal	center	black black black black black black	10 10 10 10 10	0 0 0 0 0	0 BH130 0 0 0 0 0 0 BH140
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin UVM VML1 VML2	moat - name label 30 reservoir - name label river/stream - name label river/stream - name label river/stream - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal Normal	center	black black black black black black	10 10 10 10 10	0 0 0 0 0	0 BH130 0 0 0 0 0 BH140
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin UVM VML1	moat - name label 30 reservoir - name label river/stream - name label river/stream - name label river/stream - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam nam	Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif Sans Serif	Normal Normal Normal Normal	center	black black black black black black black black	10 10 10 10 10	0 0 0 0 0	0 BH130 0 0 0 0 0 0 BH140
BH1 Are DTOP FFD UVM VML1 VML2 BH1 Lin UVM VML1 VML2 Are	moat - name label 30 ea reservoir - name label river/stream - name label river/stream - name label river/stream - name label	nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK" nam<>"UNK"	nam nam nam nam nam	Sans Serif	Normal Normal Normal Normal Normal	center	black black black black black black black black black	10 10 10 10 10 10	0 0 0 0 0	0 BH130 0 0 0 0 0 0 BH140 0 0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
VML2	river/stream - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BH1	80									BH180
Poi	nt									
DTOP	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
Lin	е									
DTOP	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	waterfall - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BI02	. 0									BI020
Poi	nt									
DTOP	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90
FFD	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90
VML1	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90
VML2	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90
Lin	е									
DTOP	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FFD	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea l									
DTOP	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FFD	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	dam/weir - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BI03	80									BI030
Poi										
FFD	lock - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	2	90
Are	ea l									
FFD	lock - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	lock - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	lock - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0

Produc	Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
BJ0										BJ065
Are VML0	ice shelf - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BJ0	70									BJ070
Are	pack ice - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
BJ0	30									BJ080
Are		nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DB0										DB000
Poi										DB030
DTOP	cave - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
UVM	cave - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1	cave - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2	cave - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	а									
UVM	cave - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DB0										DB090
Are UVM	a embankment/fill - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DB1	10									DB110
Lin	е									
DTOP	fault - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	fault - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	fault - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DB1	50									DB150
Poi	nt									
DTOP	mountain pass - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML1	mountain pass - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
VML2	mountain pass - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
DB1	80									DB180
Are	ea									
DNC	volcano - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
DB2	00									DB200
Are										
UVM	gully/gorge - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
EC0	20									EC020
Are	1									EC030
UVM	trees - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML1	trees - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	trees - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FA0	01									FA001
Poi	nt									
VML0	administrative area - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	a									
FFD	administrative area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML0	administrative area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML2	administrative area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
WVS	administrative area - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FA0										FA015
Poi										
UVM	firing range/gunnery range - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Lin	е									
UVM	firing range/gunnery range - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Are	ea									
UVM	firing range/gunnery range - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
	-									
FA0	1									FA070
Are			200	Cons Code	Nover - I	conter seeds	blesk	40	0	0
VML0	demilitarized zone - na2 label		na2	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
FA1	70									FA170
Are	ea									
DTOP	zone of occupation - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
VML0	zone of occupation - na2 label		na2	Sans Serif	Normal	center center	black	10	0	0
VML2	zone of occupation - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FC0	21									FC021
Poi	nt									
DNC	maritime limit boundary - pilot boarding - name label	mac=48 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
FC0	21									FC031
Are	1									1 0001
TOD0	maritime area - name label for CTNARE/FAIRWY	mac=141or142or155or156 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	90
TOD0	maritime area - name label for MIPARE	mac=27or28or115or116or1 40or146or147or150or151or 152or153or157or159 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	90
TOD0	maritime area - name label for RESARE	mac=0or101or104or105or1 06or107or108or109or110or 114or143or144or145or148o r149or154or158or999 AND nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	90
FC0										FC036
Are										
TOD0	restricted area - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	6	90
FC1	70									FC170
Are	ea									
TOD0	safety fairway - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	9	90
FC1										FC178
TOD4	hull integrity test area - test zone label	htz<>998	htz	Sans Serif	Normal	center center	black	10	0	0
GA0	05									GA005
Are TOD0	airspace - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0

Produc	t Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
GA0 Are										GA015
TOD0	special use airspace - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
GA0										GA035
Poi TOD0	navaids (aeronautical) - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
GA0										GA055
Poi TOD0	mt waypoint/reporting-calling in point - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
GB0 Poi										GB005
DTOP	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
FFD	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
UVM	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML0	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML1	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	 va									
DTOP	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
FFD	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
VML2	airport/airfield - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center		10	0	0
GB0	10									GB010
Poi	nt									
UVM	airport lighting - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
GB0	-									GB030
Poi DTOP	nt helicopter landing pad - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
UVM	helicopter landing pad - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Are	ea helicopter landing pad - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
			Page	0.47						

Product Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
GB035									GB035
Point									
FFD heliport - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Area									
FFD heliport - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
UVM heliport - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
GB055									GB055
Point									
VML1 runway - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Line									
VML1 runway - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
Area									
UVM runway - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
								-	-
GB065									GB065
Point									GD000
	nom<>" N /"	nom	Cana Carif	Normal	hottom loft	blook	10	4	00
FFD seaplane base - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
Area								_	
FFD seaplane base - name label	nam<>"UNK"	nam	Sans Serif	Normal	center center	black	10	0	0
ZB030									ZB030
Point									
DTOP boundary monument - name label	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
VML2 boundary monument - name	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	4	90
label	Tidili * OTTIC			- Troillia		Didoit		·	
ZB035									ZB035
Point									
VML1 control point/control station -	nam<>"UNK"	nam	Sans Serif	Normal	bottom left	black	10	3	90
name label									
ZD012									ZD012
Point									
VITD geographic information point - text label		txt	Sans Serif	Normal	center center	black	10	0	0
Line									
VITD geographic information		txt	Sans Sprif	Normal	center center	hlack	10	0	0
point - text label		ıxı	Jans Seni	inuillial	center center	DIACK	10	<u> </u>	

Product Feature Description	Symbol Assignment Expression	Label Attribute	Font	Style	Justification	Color	Size (pts)	Distance (mm)	Direction (az. deg)
VITD geographic information point - text label		txt	Sans Serif	Normal	center center	black	10	0	0

SYMBOL DESCRIPTIONS

C.1 SCOPE

 ${\tt C.1.1}$ <u>Scope</u>. This appendix describes each symbol contained in GeoSym. It is a mandatory part of the specification. The information contained herein is intended for compliance.

C.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

C.3 SYMBOL DESCRIPTIONS

Each CGM has a textual description associated with it. This description is based on the color, line weight, and graphical primitives used to construct the symbol. This appendix presents each symbol's description, along with the color tokens used to build the symbol and a name for the symbols that indicates whether the symbol is a point symbol (first two characters SY), line symbol (first two characters LS or LC) or area symbol (first two characters AC or AP).

Table C-1A shows the standard naming convention used for color based on the color token(s) assigned to the symbol and is sorted by the standardized English adjective. Table C-1B shows the same information sorted by color token. Table C-2 shows the standard naming convention used to describe the width of a line. GeoSym symbols conform to the S52 definition of line widths as being in multiples of approximately 3mm. For example, the name of symbol 0610 is LS(SOLD,3,CHGRD). That means that symbol 0610 is a solid line that is approximately .9mm in thickness and is the color CHGRD (gray).

The English adjectives presented in Tables C-1A, C-1B, and C-2 are used within every appendix in this specification.

Table C-1A Sorted by English Adjective

Table C-1B Color Token to English Adjective Mapping Color Token to English Adjective Mapping Sorted by Color Token

English Adjective	Color Token
100% cyan blue	blu100
21% purple	purple21
31% cyan blue	blu31
42% purple	purple42
aero-blue	aero-blue
basic black	black
basic blue	blue
basic cyan	cyan
basic green	green
basic magenta	magenta
basic red	red
basic white	white
basic yellow	yellow
beige	med-beige
beige-rose	beige-rose
black	CHBLK
blue-green	ARPAT
brown	CHBRN
cursor orange	CURSR
danger magenta	ISDNG
danger red	DNGHL
depth dk gray	DEPSC
depth gray	DEPCN
depth lt blue	DEPMS
depth med blue	DEPVS
depth pale blue	DEPMD
depth white	DEPDW
dk beige	dark-beige
dk gray	CSTLN
dk magenta	dark-magenta
dk red	PLRTE
dk red brown	dark-red-brown
dk tan	dark-tan
dk yellow	dark-yellow
feature brown	LANDF
golden yellow	ADINF
gray	CHGRD
green	CHGRN
lights green	LITGN
lights red	LITRD
lights yellow	LITYW
lt beige	light-beige

Color Token	English Name
ADINF	golden yellow
aero-blue	aero-blue
APLRT	lt orange
ARPAT	blue-green
beige-rose	beige-rose
black	basic black
blu100	100% cyan blue
blu31	31% cyan blue
blue	basic blue
blue_3	lt blue
blue_4	med blue
CHBLK	black
CHBRN	brown
CHCOR	orange
CHGRD	gray
CHGRF	lt gray
CHGRN	green
CHMGD	magenta
CHMGF	lt magenta
CHRED	red
CHWHT	pale green
CHYLW	yellow
CSTLN	dk gray
CURSR	cursor orange
cyan	basic cyan
dark-beige	dk beige
dark-green	very dk green
dark-magenta	dk magenta
dark-red-brown	dk red brown
dark-tan	dk tan
dark-yellow	dk yellow
DEPCN	depth gray
DEPDW	depth white
DEPIT	yellow-green
DEPMD	depth pale blue
DEPMS	depth 1t blue
DEPSC	depth dk gray
DEPVS	depth med blue
DNGHL	danger red
green	basic green
ISDNG	danger magenta
LANDA	lt brown

English Adjective	Color Token
lt blue	blue_3
1t brown	LANDA
lt gray	CHGRF
1t magenta	CHMGF
lt orange	APLRT
lt red brown	lite-red-brown
lt tan	light-tan
magenta	CHMGD
med blue	blue_4
nav orange	NINFO
no data gray	NODTA
not used1	not-used1
not used2	not-used2
oparea green	opgreen
orange	CHCOR
outline black	OUTLW
outline lt brown	OUTLL
pale green	СНИНТ
past trk black	PSTRK
purple	med-purple
radar dk green	RADHI
radar lt green	RADLO
red	CHRED
red brown	med-red-brown
reserved dk gray	RESGR
reserved very dk blue	RESBL
reserved1 gray	RES01
reserved2 gray	RES02
reserved3 gray	RES03
reserved4 gray	RES04
reserved5 gray	RES05
rose	med-rose
scale orange	SCLBR
secondary trk gray	SYTRK
ships black	SHIPS
sounding black	SNDG2
sounding gray	SNDG1
tan	med-tan
	TRFCF
traffic lt magenta	TRFCD
traffic magenta	
UI border gray	UIBDR
UI lt brown	UIAFF
UI lt green	UINFG
UI magenta	UINFM
UI med blue	UIAFD

Color Token	English Name
LANDF	feature brown
light-beige	lt beige
light-tan	lt tan
lite-red-brown	lt red brown
LITGN	lights green
LITRD	lights red
LITYW	lights yellow
magenta	basic magenta
med-beige	beige
med-purple	purple
med-red-brown	red brown
med-rose	rose
med-tan	tan
NINFO	nav orange
NODTA	no data gray
not-used1	not used1
not-used2	not used2
opgreen	oparea green
OUTLL	outline lt brown
OUTLW	outline black
PLRTE	dk red
PSTRK	past trk black
purple21	21% purple
purple42	42% purple
RADHI	radar dk green
RADLO	radar 1t green
red	basic red
RES01	reserved1 gray
RES02	reserved2 gray
RES03	reserved3 gray
RES04	reserved4 gray
RES05	reserved5 gray
RESBL	reserved very dk blue
RESGR	reserved dk gray
SCLBR	scale orange
SHIPS	ships black
SNDG1	sounding gray
SNDG2	sounding black
SYTRK	secondary trk gray
TRFCD	traffic magenta
TRFCF	traffic lt magenta
UIAFD	UI med blue
UIAFF	UI lt brown
UIBCK	UI white
UIBDR	UI border gray

English Adjective	Color Token
UI orange	UINFO
UI red	UINFR
UI text gray	UINFF
UI very dk blue	UINFB
UI very dk gray	UINFD
UI white	UIBCK
very dk green	dark-green
yellow	CHYLW
yellow-green	DEPIT

Color Token	English Name
UINFB	UI very dk blue
UINFD	UI very dk gray
UINFF	UI text gray
UINFG	UI lt green
UINFM	UI magenta
UINFO	UI orange
UINFR	UI red
white	basic white
yellow	basic yellow

Table C-2 S52 Widths to English Adjective

S52 Width	S52 Measure	English Name
1	0.3 mm	very thin
2	0.6 mm	thin
3	0.9 mm	(none)
4	1.2 mm	thick
5	1.5 mm	very thick
6	1.8 mm	very very thick
7	2.1 mm	Not Used in GeoSym
8	2.4 mm	Not Used in GeoSym

Symbol Descriptions

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0001	landf			SY(PRDINS02)	feature brown mine symbol
0002	landf	chblk		SY(BUISGL11)	feature brown filled square w/ black outline
0003	chblk			SY(CHIMNY11)	black chimney symbol
0004	chblk			SY(TOWERS03)	black tower symbol
0005	landf			SY(CRANES01)	feature brown crane symbol
0006	chblk			SY(FLASTK11)	black flare stack symbol
0007	chblk			SY(FORSTC11)	black square
0008	chblk			SY(WNDMIL12)	black sm cir w/ X on top
0009	landf			SY(POSGEN01)	feature brown dot inside cir
0010	chblk			SY(BUIREL13)	black 'iron cross'
0011	chblk			SY(BUIREL14)	black X inscribed in rectangle
0012	chblk			SY(BUIREL15)	black mosque/minaret w/ dot in circle
0013	chmgf	chwht		SY(CGUSTA02)	lt magenta CG in rectangle w/ pale green fill
0014	chblk			SY(RSCSTA02)	black filled diamond entred on horizontal line
0015	chmgf	chwht		SY(SISTAT02)	lt magenta SS in rectangle w/ pale green fill
0016	landf			SY(BUAARE02)	feature brown filled cir
0017	chblk			SY(CAIRNS11)	black three stacked sm cirs
0018	chblk			SY(NOTBRD11)	black rectange above inverted T
0019	landf			SY(FLGSTF01)	feature brown flag symbol
0020	chblk			SY(MONUMT12)	black hatched trapazoid
0021	landf	chblk		SY(SILBUI11)	feature brown filled cir w/ black outline
0022	chblk			SY(TNKCON12)	black cir
0023	chblk			SY(TOWERS12)	black water tower symbol
0024	chblk			SY(POSGEN03)	black dot inside cir
0025	trfcd			SY(GATCON04)	traffic magenta lg cir, 2 horiz & 1 vert line
0026	chblk			SY(MSTCON14)	black tall slender triangle w/ cir at bottom
0027	landf			SY(QUARRY01)	feature brown mine symbol inside circle
0028	chblk	chmgd		SY(DOMES011)+ SY(RDOSTA02)	black dome inside lg magenta circle
0029	chblk	chmgd		SY(RASCAN11)+ SY(RDOSTA02)	black rectangle below T in lg magenta cir
0030	chblk	chmgd		SY(MSTCON14)+ SY(RD0STA02)	black triangle w/ in lg magenta cir
0031	chblk	chmgd		SY(TOWERS03)+ SY(RDOSTA02)	black tower inside lg magenta cir
0032	chmgd			SY(BRTHNO01)	magenta circle
0033	landf	chblk	chmgd	SY(BUISGL11)+ SY(RDOSTA02)	feature brown fill sqr black otln in lg mgnta cir
0035	landa	cstln		SY(LNDARE01)	lt brown sm filled cir w/ gray outline
0036	chmgd			SY(ACHARE02)	magenta anchor
0037	chmgd			SY(ACHBRT07)	magenta anchor w/ sm cir on shaft
0038	landa	chblk		SY(MORFAC03)	It brown filled square w/ black outline
0039	trfcd			SY(RDOCAL02)	traffic magenta cir w/ 1 cone
0040	trfcd			SY(RDOCAL03)	traffic magenta cir w/ 2 cones

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0041	chmgd			SY(RCLDEF01)	magenta cir w/ 2 cones and 2 ?
0042	chmgd			SY(HRBFAC09)	magenta fish w/ arcs above and below
0043	chmgd			SY(SMCFAC02)	magenta yacht inside lg cir
0044	chblk			SY(BOYINB01)	black installation buoy
0045	chgrd			SY(MARCUL02)	gray fish inside net
0046	chmgd			SY(BRIDGE01)	magenta small circle inside circle
0047	chgrd			SY(FSHFAC02)	gray rectangle w/ angle line on top
0051	chblk			SY(PILPNT02)	black filled sm cir
0052	depvs	chblk		SY(OBSTRN01)	depth med blue fill cir w/ black dotted outline
0053	depvs	chblk		SY(DANGER01)	depth med blue fill lg oval w/ black dot outline
0054	chblk			SY(DANGER02)	lg black oval w/ dotted outline
0055	depit	chblk		SY(OBSTRN03)	yellow-green solid circle w/ black dot outline
0056	chgrd			SY(WATTUR02)	gray waves symbol
0057	landa	cstln		SY(OBSTRN11)	lt brown square with dk gray outline
0058	chblk			SY(LOWACC01)	black leader line w/ question mark
0059	chgrd			SY(FOULGND1)	gray pound (#) symbol
0060	chgrd			SY(WEDKLP03)	gray kelp symbol
0061	chblk			SY(OFSPLF01)	black dot inside square
0062	chblk	depvs	chblk	SY(UWTROC03)	black cross in dotted cir, depth med blue fill
0063	chblk			SY(UWTROC04)	black 6 point asterisk
0064	chgrd			SY(WRECKS01)	gray wreck symbol
0065	chblk	depvs	chblk	SY(WRECKS05)	blck bar 3 ticks in dotted depth med blue oval
0066	chblk			SY(WRECKS04)	black horiz bar w/3 ticks
0071	chgrd			SY(CURDEF01)	gray arrow w/ 2 feathers and 2?
0072	chgrd			SY(CURENT01)	gray arrow w/ two feathers
0073	chgrd			SY(EBBSTR01)	gray arrow w/ no feathers
0074	chgrd			SY(FLDSTR01)	gray arrow w/ one feather
0076	chgrd			SY(TIDSTR01)	gray diamond
0077	chblk			SY(HILTOP11)	black radiating cones
0078	chblk			SY(POSGEN04)	black sm cir
0079	landf			SY(TREPNT04)	feature brown side view of stylised tree
0800	chmgd			SY(PILBOP02)	magenta solid filled diamond inside cir
0081	chmgf			SY(INFARE51)	lt magenta square w/ I
0082	trfcf			SY(ENTRES51)	traffic lt magenta cir w/ bar
0083	trfcf			SY(TSSRON51)	traffic lt magenta arc w/ arrowhead
0084	chmgd			SY(CHINFO06)	magenta cir w/! Inside
0085	chmgf			SY(FSHRES51)	It magenta fish w/ intersecting diag line
0086	chmgf			SY(ACHRES51)	It magenta open anchor w/ intrsctng diag line
0087	trfcf	chmgd		SY(RSRDEF51)	traffic lt magenta! In lg cir w/ magenta?
0088	trfcd			SY(TSSLPT51)	traffic magenta filled arrow
0089	trfcd	chmgd		SY(RTLDEF51)	traffic magenta dashed arrow w/ 2 mgnta ?'s
0090	landf			SY(AIRARE02)	feature brown outline of plane inside lg cir
0091	chgrd			SY(RECDEF51)	gray? inside angle brackets inside dashes
0092	trfcf			SY(PRCARE51)	traffic lt magenta! Inside triangle

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0093	trfcf			SY(CTYARE51)	traffic lt magenta! Inside lg circle
0094	chmgf			SY(CBLARE51)	It magenta angled line
0095	chgrf			SY(SWPARE51)	lt gray under bar w/ upward bar on ends
0096	chmgd			SY(CHINFO07)	magenta square w/ i
0097	trfcf			SY(CTNARE51)	traffic lt magenta! Inside lg circle
0098	trfcd	chmgd		SY(TWRDEF51)	traffic magenta dash dbl head arrow w/ 2 ?'s
0100	chblk			SY(BCNGEN01)	black beacon/buoy base
0101	outlw	chylw		SY(BCNSPP21)	yellow rectangle w/ outline black outline
0114	chblk			SY(TOPMAR14)	black topmark open parallelogram
0122	chblk			SY(TOPMAR22)	black topmark one cone up
0124	chblk			SY(TOPMAR24)	black topmark one cone down
0125	chblk			SY(TOPMAR25)	black topmark two cones up
0126	chblk			SY(TOPMAR26)	black topmark two cones down
0127	chblk			SY(TOPMAR27)	black topmark two cones point out
0128	chblk			SY(TOPMAR28)	black topmark two cones point in
0130	chblk			SY(TOPMAR30)	black topmark one ball
0132	chblk			SY(TOPMAR32)	black topmark two balls
0133	chblk			SY(TOPMAR33)	black topmark can
0150	depit	depcn		SY	yellow-green filled sm cir w/ gray outline
0151	chmgd			SY(DAYSQR21)	magenta box above inverted T with open cir
0152	chmgd			SY(DAYSQR01)	magenta box w/ dot and line below
0154	chmgd			SY	magenta cir, arrows pting out, represent only
0185	chblk			SY(TOPMAR85)	black topmark special X
0186	chblk			SY(TOPMAR86)	black topmark cross
0187	chblk			SY(TOPMAR87)	black topmark perch
0188	chblk			SY(TOPMAR88)	black topmark broom up
0199	chblk			SY(TMARDEF1)	black default topmark upright
0202	chblk			SY(TOPMAR02)	black buoy topmark one cone up
0204	chblk			SY(TOPMAR04)	black buoy topmark one cone down
0205	chblk			SY(TOPMAR05)	black buoy topmark two cones up
0206	chblk			SY(TOPMAR06)	black buoy topmark two cones down
0207	chblk			SY(TOPMAR07)	black buoy topmark two cones point out
0208	chblk			SY(TOPMAR08)	black buoy topmark two cones point in
0210	chblk			SY(TOPMAR10)	black buoy topmark one ball
0212	chblk			SY(TOPMAR12)	black buoy topmark two balls
0213	chblk			SY(TOPMAR13)	black buoy topmark can
0214	chblk			SY(TOPMAR14) for buoys	black buoy topmark open parallelogram
0217	chblk			SY(TOPMAR17)	black buoy topmark upright cross
0265	chblk			SY(TOPMAR65)	black buoy topmark special X
0299	chblk			SY(TMARDEF2)	black buoy default topmark
0300	chblk	chmgd		SY(BOYGEN03)	black default buoy beside magenta?
0301	chblk			SY(BOYBAR01)	black barrel buoy
0302	chblk			SY(BOYCAN01)	black can buoy
0303	chblk			SY(BOYCON01)	black cone buoy

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0304	chblk			SY(BOYMOR01)	black mooring barrel buoy
0305	chblk			SY(BOYMOR03)	black mooring can buoy
0306	chblk			SY(BOYPIL01)	black pillar buoy
0307	chblk			SY(BOYSPH01)	black spherical buoy
0308	chblk			SY(BOYSPR01)	black spar buoy
0309	chblk			SY(BOYSUP01)	black superbuoy
0310	chblk			SY(BOYSUP03)	black lanby
0311	chblk			SY(BOYMOR11)	black mooring/installation buoy
0312	chblk			SY(BOYSUP02)	black superbuoy - simplified
0313	outlw	chylw		SY(BOYSPP11)	yellow circle w/ outline black outline
0401	chmgf			SY(FOGSIG01) for navaids	lt magenta arcs origin offset - maximum
0402	chmgf			SY(FOGSIG01) for others	lt magenta arcs origin offset - minimum
0500	chmgd			SY(LIGHTDEF)	magenta flare
0501	litrd			SY(LIGHTS01)	lights red flare
0502	litgn			SY(LIGHTS02)	lights green flare
0503	lityw			SY(LIGHTS03)	lights yellow flare
0510	chmgd			SY(RADRFL03)	magenta arc w/ 5 ticks pointing upward
0511	chmgd			SY(RDOSTA02)	lg magenta cir
0512	chmgd			SY(RTPBCN02)	lg magenta dashed cir
0513	chblk			SY(LITFLT01)	black lt float
0514	chblk			SY(LITVES01)	black lt vessel
0515	chblk			SY(LITFLT02)	black lt float, simplified
0516	chblk			SY(LITVES02)	black lt vessel, simplified
0517	chmgd			SY(NDB)	magenta circle with dot in center
0518	chmgd			SY(VOR)	magenta hexagon with dot in center
0519	chmgd			SY(VORDME)	magenta hexagon in square w/ dot in center
0520	chmgd			SY(VORTAC)	magenta hexagon, solid outer rectgls, entr dot
0521	chmgd			SY(TACAN)	magenta hexagon, open outer rectgls, entr dot
0522	chgrn			SY	green open triangle
0523	chgrn			SY	green solid triangle
0524	chmgd			SY	magenta open circle w/ diagonal cross bar
0525	chmgd			SY	magenta open very very thin circle
0526	med-			SY	purple open very thin circle
0.74	purple			~~~	
0527	med-			SY	purple filled circle
0600	purple chblk			LS(SOLD,1,CHBLK)	black very thin solid line
0604	landf			LS(SOLD,1,CHBLK) LS(SOLD,1,LANDF)	feature brown very thin solid line
0605	landf			LS(SOLD,1,LANDF) LS(SOLD,2,LANDF)	feature brown thin solid line
0606	landf			LS(SOLD,2,LANDF) LS(SOLD,3,LANDF)	feature brown solid line
0607	landf			LS(SOLD,4,LANDF)	feature brown thick solid line
0607				LS(SOLD,1,DEPCN)	depth gray very thin solid line
0609	depen			LS(SOLD,1,DEPCN) LS(SOLD,2,DEPSC)	depth dk gray thin solid line
0610	depsc chgrd			LS(SOLD,2,DEPSC) LS(SOLD,3,CHGRD)	gray solid line
	-				
0611	chgrd			LS(SOLD,4,CHGRD)	gray thick solid line

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0612	chgrf			LS(SOLD,1,CHGRF)	lt gray very thin solid line
0613	depsc			LS(DASH,2,DEPSC)	depth dk gray thin dash line
0614	depcn			LS(DASH,1,DEPCN)	depth gray very thin dash line
0615	chwht			LS(SOLD,3,CHWHT)	pale green solid line
0620	trfcf			LS(SOLD,6,TRFCF)	traffic lt magenta very very thick solid line
0621	depvs			LS(SOLD,1,DEPVS)	depth med blue very thin solid line
0623	cstln			LS(SOLD,2,CSTLN)	dk gray thin solid line
0624	landf			LS(DASH,1,LANDF)	feature brown very thin dash line
0625	cstln			LS(SOLD,4,CSTLN)	dk gray thick solid line
0626	cstln			LS(DASH,2,CSTLN)	dk gray thin dash line
0627	chgrd			LS(SOLD,5,CHGRD)	gray very thick solid line
0629	chgrd			LS(DASH,2,CHGRD)	gray thin dash line
0630	cstln			LS(DOTT,2,CSTLN)	dk gray thin dotted line
0631	chgrd			LS(SOLD,2,CHGRD)	gray thin solid line
0632	cstln			LS(DASH,1,CSTLN)	dk gray very thin dash line
0633	chgrf			LS(DASH,2,CHGRF)	lt gray thin dash line
0634	chmgd			LS(DASH,1,CHMGD)	magenta very thin dash line
0635	chmgf			LS(DASH,1,CHMGF)	It magenta very thin dash line
0656	chgrd			LS(DASH,1,CHGRD)	gray very thin dash line
0657	chgrd			LS(DASH,4,CHGRD)	gray thick dash line
0661	trfcd			LS(DASH,3,TRFCD)	traffic magenta dash line
0662	trfcd			LS(DASH,1,TRFCD)	traffic magenta very thin dash line
0663	trfcd			LS(DASH,2,TRFCD)	traffic magenta thin dash line
0665	trfcd			LS(DASH,4,TRFCD)	traffic magenta thick dash line
0669	depvs			LS(DASH,1,DEPVS)	depth med blue very thin dash line
0670	depvs			LS(DASH,2,DEPVS)	depth med blue thin dash line
0680	chblk			LS(DOTT,2,CHBLK)	black thin dotted line
0681	uinfb			LS(SOLD,2,UINFB)	UI very dk blue thin solid line
0682	uinfb			LS(SOLD,1,UINFB)	UI very dk blue very thin solid line
0683	uinfb			LS(DOTT,3,UINFB)	UI very dk blue dotted line
0684	chred			LS(SOLD,2,red)	red thin solid line
0685	chgrn			LS(SOLD,2,opgreen)	green thin solid line
0686	med-			LS(SOLD,4,med-purple)	purple thick solid line
	purple				
0687	med-			LS(L-DASH,4,med-purple)	purple thick long dash line
0.600	purple			LG/L DAGHA DEDGG	
0688	depsc			LS(L-DASH,2,DEPSC)	depth dk gray thin long dash line
0689	depcn			LS(L-DASH,1,DEPCN)	depth gray very thin long dash line
0700	chmgd			LC(FERYRT01)	magenta dash very thin line w/ boat shape
0701	chblk			LC(FERYRT02)	black dash very thin line w/ boat shape
0704	chgrd			LC(PIPSOL06)	gray dash very thin line w/ sm cir
0705	chmgd			LC(PIPSOL05)	magenta dash very thin line w/ cir
0708	chmgd			LC(CBLSUB06)	magenta broken zig-zag line w/ flash symbol
0711	chmgd			LC(ACHARE51)	magenta dash/chevron line w/anchor symbol
0712	chgrd			LC(FSHFAC02)	gray L complex line

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0713	chmgd			LC	magenta compressed zig-zag line
0716	chgrd			LC(NAVARE51)	gray dash/chevron line
0722	chmgd			LC(RESARE51)	magenta dashed T line
0723	trfcd			LC(DWRTCL08)	traffic magenta solid line w/ > and DW
0724	trfcd			LC(DWRTCL07)	traffic magenta dash line w/ > and DW
0725	trfcd			LC(DWRTCL06)	traffic magenta solid line w/ < > and DW
0726	trfcd			LC(DWRTCL05)	traffic magenta dash line w/ < > and DW
0727	trfcd			LC(DWLDEF01)	traffic magenta dash line $w/$ and DW
0728	chgrd			LC(RECTRC12)	gray very thin line w/ >
0729	chgrd			LC(RECTRC11)	gray very thin dash line w/ >
0730	chgrd			LC(RECTRC10)	gray very thin line w/ <>
0731	chgrd			LC(RECTRC09)	gray very thin dash line w/ <>
0732	chgrd			LC(RECDEF02)	gray very thin dash line $w/$
0733	chmgf			SY(LOCMAG51)	lt magenta open flag
0734	chmgd			LC(CTYARE51)	magenta dash/chevron line
0735	chmgd			LC(PIPARE51)	magenta dash/chevron line w/ dash, cir
0736	chgrd			LC(PIPARE61)	gray dash/chevron line w/ dash, cir
0737	chmgd			LC(CBLARE51)	magenta dash/chevron line w/ flash symbol
0738	chmgd			LC(PRCARE51)	magenta dash/chev line w/precaution symbol
0739	chmgd			LC(ACHRES51)	magenta T dash line w/ anchor symbol
0740	chmgd			LC(FSHRES51)	magenta T dash line w/ fish symbol
0741	trfcd			LC(DWRUTE51)	traffic magenta dash/chevron line w/ DW
0742	chmgd			LC(CTNARE51)	magenta dash/chevron line w/caution symbol
0743	cstln			LC(LOWACC21)	dk gray small open rectangle dash line
0751	chblk			LC	black solid line w/ tick terminators
0752	chgrd	chgrd		LC=LS(DASH,1,CHGRD)+ SY(WATTUR02)	gray very thin dash line w/ cntred waves
0753	chgrd	chmgd		LC=LS(SOLD,5,CHGRD)+ SY(BRIDGE01)	very thek gray line w/ entrd magenta dbl cir
0754	uinfb			LC(OPAREAASW)	UI vy dk blue vy thin line w/5 rows dots inside
0755	uinfb			LC(OPAREAsubOA)	UI vy dk blue vy thin line w/vert inward ticks
0756	landf			LC(OPAREAstlsub)	feature brown vy thin line w/vert inward ticks
0757	landf			LC(OPAREAstlsur)	feature brown vy thin line w/3 rows dots ins
0758	landf			LC(OPAREAsfl)	feature brown 5 dot vy thin line
0759	chgrn			LC(OPAREAalcorr)	green thin line w/stagrd dots inside
0760	chmgd			LC(OPAREAADIZ)	magenta vy thin line w/3 row vert dots inside
0761	chgrn			LC(OPAREActlas)	green vy thin line w/3 row vert dots
0762	chgrn			LC(OPAREAFIR)	green thin line with ticks inside
0763	chgrn			LC(OPAREAUIR)	green thin line with open tabs inside
0764	chmgd			LC(OPAREAAWAB)	magenta thin line w/ rt angle ticks inside
0765	chmgd			LC(OPAREAARAB)	magenta thin line w/ lft angle ticks inside
0766	med-			LC(HITSslope)	purple very thin solid line with inward ticks
	purple				
0767	med-			LC(CBLSUB06*)	purple broken zig-zag line w/ flash symbol
	purple				

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
0802	chgrd			AC(CHGRD)	gray solid fill
0803	depit			AC(DEPIT)	yellow green solid fill
0804	chbrn			AC(CHBRN)	brown solid fill
0805	depdw			AC(DEPDW)	depth white fill
0810	depvs			AC(DEPVS)	depth med blue solid fill
0820	depmd			AC(DEPMD)	depth pale blue solid fill
0821	depms			AC(DEPMS)	depth lt blue solid fill
0822	landa			AC(LANDA)	lt brown solid fill
0823	nodta			AC(NODTA)	no data gray solid fill
0824	trfcf			AC(TRFCF,3)	traffic lt magenta solid fill
0825	purple21			AC(purple21)	21% purple solid fill
0826	purple42			AC(purple42)	42% purple solid fill
0902	chmgf			SY(ACHARE51)	lt magenta anchor
0903	chgrd			AP(FSHFAC04)	gray fish trap patt fill
0904	chgrd			AP(MARCUL02)	gray fish in net patt fill
0910	chbrn			AP(MARSHES1)	brown marsh patt fill
0911	depvs			AP	depth med blue grid patt fill
0912	chgrd			AP(ICEARE04)	gray random line patt fill
0913	landf			AP	feature brown solid filled circle patt fill
0914	landf			AP	feature brown cirs patt fill
0915	landf			AP(VEGATN03)	feature brown tree side-view patt fill
0916	landf			AP(VEGATN04)	feature brown mangrove side-view patt fill
0917	trfcf			AP(TSSJCT02)	traffic lt magenta rt diag line patt fill
0919	chgrd			AP(DRGARE01)	gray diag spaced dot patt fill
0932	landf			AP(AIRARE02)	feature brown airplane patt fill
0933	chgrd			AP(NODATA03)	gray offset dash patt fill
0934	chgrd			AP(PRTSUR01)	gray dash wide patt fill
0949	depcn			AP(DIAMOND1)	depth gray diamond patt fill
1001	chred	chblk		SY	red filled square black outline
1002	chblk			SY	black filled cir w/ white cross inside
1003	chblk			SY	black cross
1004	chblk			SY	black pencil shape symbol
1005	chblk			SY	black F inside boat
1006	blue			SY	basic blue line w/ arrow
1007	blue			SY	basic blue cir
1008	blue			SY	basic blue filled cir w/ tail below
1009	blue			SY	basic blue filled diamond
1010	blue			SY	basic blue solid square
1011	chblk			SY	black sm filled cir beside +-
1012	aero-blue			SY	aero blue solid filled star
1013	chblk			SY	black "H" inside black square
1171	chblk			SY	black opposing open equi triangles
1172	chblk			SY	black diamond w/ curve staffed arrow
1202	landf	chbrn		SY(BUISGL01)	feature brown filled square w/ brown outln

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
1205	chbrn			SY	brown vert line w/ horizontal ticks on rt side
1206	chblk			SY	black line w/ indented rectangle
1211	chblk			SY	black two rt pointing triangles
1220	trfcd			SY(RCTLPT52)	traffic magenta dashed open arrow
1233	chblk			SY	black horiz line below triangle w/ B inside
1236	chmgf			SY(ITZARE51)	lt magenta IT
1238	trfcf	trfcf	chmgd	SY(DWRTPT51)+ SY(TSLDEF51)	traffic lt mag DW filled arrow btwn 2 mgnta?
1251	sndg1			SY(SOUND*C2)	sounding gray circle
1256	sndg2			SY(SOUNDSA1)	sounding black overbar
1301	chblk			LC	black line w/ squares
1303	blue			LC	basic blue thin dash line w/ circle
1304	blue			LC	basic blue thin dash line w/ dot
1305	chbrn			LC	brown dash thin line w/ dot
1306	med-red- brown			LS(DASH,1,med-red-brown)	red brown very very thin dash line
1307	med-red- brown			LC	red brown vy thin line w/ ticks on inside
1308	chblk			LC	black very thin line w/ ticks
1309	chblk			LC	black double lines w/ ticks pointing out
1310	chblk			LC	black one long dash two short dash line
1311	chblk			LC	black long dash short dash line
1312	chblk			LC	black very thin sht dash very sht dash line
1313	med- purple			LC	purple line w/ squares
1314	chblk			LS(SOLD,1,CHBLK)	black very thin solid line
1315	med-red- brown			LC	red brown double solid thin lines
1316	med-red- brown			LS(SOLD,3,med-red-brown)	red brown single lines
1317	med-red- brown			LC	red brown double dash thin lines
1318	chblk			LC	black thin long dsh 2 shrt dsh line
1319	chblk			LC	black thin long dash 3 dot line
1401	chblk			LC	black outline open line w/ rt diag fill
1403	chblk			LC	black line w/ open diamonds
1406	chbrn			LS(SOLD,2,CHBRN)	brown thin solid line
1408	green			LC	basic green vy thin long dash short dash line
1451	med- purple			LC	purple dash line w/ tics both sides (- + -)
1506	blue			LC	basic blue jagged vy thin line
1509	chblk			LC	black thin solid line ticks on inside
1511	chbrn			LC	brown thin line outward ticks
1512	chmgd			LC	magenta vy thin line double ticks
1513	chmgd			LC	magenta jagged line

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
1516	chblk			LC	black thin line outward ticks
1571	chbrn			LC	brown thin dash line
1572	chblk			LC	black thin solid dbl lines w/ flares on ea end
1573	cstln			LS(SOLD,1,CSTLN)	dk gray very thin solid line
1601	chred			AC(CHRED)	red solid fill
1602	lityw			AC(LITYW)	lights yellow solid fill
1605	depit			AP	yellow-green tree-top patt fill
1606	depit			AP	yellow-green triangle tree patt fill
1608	blue			AP	basic blue stipple dot patt fill
1609	blue			AP	basic blue diag grid patt fill
1610	chred			AP	red left diag line patt fill
1611	blue			AP	basic blue dot patt fill
1612	chmgd			AP	magenta cross hatch patt fill
1613	depit			AP	yellow-green nipa patt fill
1651	trfcf			LS(DASH,2,TRFCF)	traffic lt magenta thin dash line
1655	blue			LS(DASH,2,blue)	basic blue thin dash line
1656	blu100			LS(SOLD,1,blu100)	100% cyan blue very thin solid line
1851	med- beige			LS(S-DASH,2,med-beige)	beige thin short dash line
1855	med-red- brown			LS(SOLD,2,med-red-brown)	red brown thin solid line
1901	uiaff			AC(UIAFF)	ui lt brown solid fill
1902	dark- beige			AC(dark-beige)	dk beige solid fill
1903	med-rose			AC(med-rose)	rose solid fill
1904	adinf			AC(ADINF)	golden yellow solid fill
1905	white			AC(white)	basic white solid fill
1906	lite-red-			AC(lite-red-brown)	lt red brown solid fill
	brown				
2001	chblk			SY	black pick & hammer
2002	chblk			SY	black tower
2003	blue			SY	basic blue solid filled cir
2005	chblk			SY	black building w/ 2 smokestacks above
2009	chblk			SY	black square w/ zap inside
2010	chblk			SY	black sun burst w/ dot inside
2011	chblk			SY	black filled square w/ zap on top
2016	chblk			SY	black dot inside double cir
2019	chblk			SY	black sm filled cir
2026	chblk			SY	black tent
2029	chblk			SY	black ferris wheel
2034	chblk			SY	black skier
2035	chblk			SY	black dot inside cir
2036	chblk			SY	black sm filled square
2038	chblk			SY	black dot w/ parallel lines inside circle
2042	chblk			SY	black filled square w/ flag on top

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
2043	chblk			SY	black four black squares w/ connection
2044	chblk			SY	black lighthouse symbol
2045	chblk			SY	black filled square w/ cross on top
2047	chblk			SY	black filled square w/ T on top
2048	chblk			SY	black pinwheel
2051	chblk			SY	black ramp symbol
2053	chblk			SY	black sm open square w/ dot in center
2058	chgrd			SY	gray filled square
2060	chblk			SY	black square w/ S inside
2063	chblk			SY	black monument symbol
2070	chblk			SY	black diag bands in rectangle
2071	chblk			SY	black dot inside cir
2072	chgrd			SY	gray shadowed square
2073	chblk			SY	black square w/ diag line inside
2074	chbrn			SY	brown cir
2076	med-red-			SY	red brown filled semicircle
	brown				
2078	blue			SY	basic blue dot inside cir
2080	chblk			SY	black rt diag line inside cir
2081	chblk			SY(SAE0002)	black open square
2083	chblk			SY	black double line with flares on ends
2087	chblk			SY	black opposing solid triangles pnting in
2088	med-			SY	purple dot inside cir
	purple				
2089	chblk			SY	black cir w/ four outer tics and dot inside
2090	chblk			SY	black cir w/ C inside
2094	med-			SY	purple solid ellipse extending from pole
2007	purple			CM	11 1 /B: :1
2097	chblk			SY	black sm square w/ P inside
2099	chblk			SY	black dot inside cir inside square
2100	chblk			SY	black box w/ round top w/ "T" inside
2101	med-red- brown			SY	red brown octagon shape w/ "R" inside
2102	chblk			SY(DSHAER11)	black satellite dish symbol
2102	med-			SY SY	purple tower symbol
2104	purple			31	purple tower symbol
2105	chblk			SY	black cir around satellite dish symbol
2106	chblk			SY	black filled square w/ outward ticks
2107	chblk			SY	black vert line w/ two horiz lines at top
2108	chblk			SY	black tower w/ sound waves at top
2111	chbrn			SY	brown filled cir
2212	chblk			SY	black solid filled shipwreck symbol
2231	blue			SY	basic blue open diamond
2232	blue			SY	basic blue solid arrowhead
2233	blue			SY	basic blue square w/ grid inside
	0140			~ -	caste orac square in grid morac

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
2234	blue			SY	basic blue cir diagly half filled
2238	chblk			SY	black vertical heavy weight line
2239	chblk			SY	black open arrowhead
2242	chblk			SY	black 8 pt asterisk w/ open center
2243	chblk			SY	black sm filled cir
2245	blue			SY	basic blue sm filled cir
2247	chblk			SY	black diag line w/ "L" on top
2248	chbrn			SY	sm brown filled cir w/ tail below
2249	chblk			SY	black)(symbol
2250	chbrn			SY	brown 6 pt asterisk w/ open center
2251	chbrn			SY	sm brown open cir w/ eight tics outside
2252	chgrn			SY	green palm tree symbol
2253	chgrn			SY	green triangle tree symbol
2256	chblk			SY	black/white divided square
2257	chmgd			SY	magenta square w/ F
2264	chblk			SY	black cir
2267	aero-blue			SY	aero-blue airplane
2268	chgrf			SY	lt gray airplane
2269	chmgd			SY	magenta airplane
2271	med-			SY(SAE0030)	purple "H" inside cir
	purple				
2273	aero-blue			SY	aero-blue solid cir w/ open diag band
2274	chmgd			SY	magenta M inside cir
2278	chblk			SY	black dot in square
2279	chblk			SY	black triangle w/ dot inside
2281	chgrd			SY	gray cir w/ open diag band
2320	blue			SY(SAE0028)	basic blue sm cir in cir w/4 squares outside
2323	chblk			SY	black dot
3000	chmgf			LS(DASH,2,CHMGF)	It magenta thin dash line
3001	light- beige			LS(SOLD,2,light-beige)	It beige thin solid line
3003	med-tan			LS(SOLD,1,med-tan)	tan very thin solid line
3012	chbrn			LS(SOLD,2,CHBRN)	brown thin solid line
3014	chbrn			LS(SOLD,3,CHBRN)	brown solid line
3017	chbrn			LS(DASH,2,CHBRN)	brown thin dash line
3021	med-red- brown			LS(DASH,3,med-red-brown)	red brown dashed line
3022	chbrn			LC	brown thin dash line w/ open cir
3024	med-red-			LS(SOLD,1,med-red-brown)	red brown very thin solid line
2026	brown			LC(COLD 1 1 11)	11 1111
3026	med-red- brown			LS(SOLD,1,med-red-brown)	red brown solid line
3028	med-red-			LS(DASH,2,med-red-brown)	red brown thin dash line
3020	brown			Lo(DAbii,2,iiicu-icu-ui0wii)	red orown tillii dasii illic

Symbol #	Token1	Token2	Token3	Symbol Name Symbol Description	
3031	dark- green			LS(SOLD,2,dark-green)	very dk green thin solid line
3036	dark-			LC	very dk green thin line w/rectangles one side
3042	green blue			LS(S-DASH,1,blue)	basic blue very thin short dash line
3042	blue			LS(L-DASH,2,blue)	basic blue thin long dash line
3050	blue			LC	basic blue dashed line w/ open cirs
3052	chmgd			LS(SOLD,2,CHMGD)	magenta thin solid line
3054	chmgf			LS(S-DASH,1,CHMGF)	lt magenta um sond me
3061	chmgd			LS(DOTT,2,CHMGD)	magenta thin dotted line
3064	chmgd			LC	magenta thin wavy solid line
3069	aero-blue			LS(SOLD,1,aero-blue)	aero-blue very thin solid line
3070	aero-blue			LS(SOLD,2,aero-blue)	aero-blue thin solid line
3073	aero-blue			LS(S-DASH,2,aero-blue)	aero-blue thin short dash line
3073	med-			LC	purple thin solid line w/ dots on each side
	purple			LC	purple tilli sond line w/ dots on each side
3076	chgrf			LS(SOLD,2,CHGRF)	lt gray thin solid line
3077	chgrf			LS(DASH,1,CHGRF)	lt gray very thin dash line
3082	chgrd			LS(SOLD,1,CHGRD)	gray very thin solid line
3086	chgrd			LS(S-DASH,1,CHGRD)	gray very thin short dash line
3096	chgrd			LC	gray very rhin dash line w/ dot
3104	chred			LS(SOLD,3,CHRED)	red solid line
3106	depmd			LC	depth pale blue very thin solid line w/ ticks
3107	depmd			LS(SOLD,1,DEPMD)	depth pale blue very thin solid line
3108	depmd			LS(SOLD,2,DEPMD)	depth pale blue thin solid line
3109	depmd			LS(DOTT,2,DEPMD)	depth pale blue thin dotted line
3112	chblk			LS(SOLD,2,CHBLK)	black thin solid line
3113	chblk			LS(SOLD,3,CHBLK)	black solid line
3114	chblk			LS(S-DASH,1,CHBLK)	black very thin short dash line
3115	chblk			LS(S-DASH,2,CHBLK)	black thin short dash line
3116	chblk			LS(DASH,1,CHBLK)	black very thin dash line
3117	chblk			LS(DASH,2,CHBLK)	black thin dash line
3118	chblk			LS(DASH,3,CHBLK)	black dash line
3119	chblk			LS(L-DASH,1,CHBLK)	black very thin long dash line
3120	chblk			LS(L-DASH,2,CHBLK)	black thin long dash line
3121	chblk			LS(L-DASH,3,CHBLK)	black long dash line
3123	chblk			LC	black solid line w/ single tics both sides
3125	chblk			LC	black solid line w/ single tics alt sides
3127	chblk			LC	black solid line w/ double tics both sides
3129	chblk			LC	black solid line w/ double tics alt sides
3131	chblk			LC	black dash line w/ single tics both sides
3133	chblk			LC	black dash line w/ double tics both sides
3135	chblk			LC	black dash line w/ single tics alt sides
3137	chblk			LC	black dash line w/ double tics alt sides
3139	chblk			LS(DOTT,1,CHBLK)	black very thin dotted line

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
3141	chblk			LC	black three dash one dot very thin line
3142	chblk			LC	black parallel vy thin lines w/ tics (ladder patt)
3143	chblk			LC	black double dash very thin lines
3146	chblk			LC	black solid triangle line patt
3148	chblk			LC	black patt line -x -x -x
3153	beige- rose			LS(SOLD,2,beige-rose)	beige-rose thin solid line
3167	depmd			LS(S-DASH,2,DEPMD)	depth pale blue thin short dash line
3168	outll			LS(DOTT,2,OUTLL)	outline It brown thin dotted line
3186	chblk			LC	black jagged line
3194	ninfo			LS(SOLD,1,NINFO)	nav orange very thin solid line
4002	light- beige			AC(light-beige)	lt beige solid fill
4003	med- beige			AC(med-beige)	beige solid fill
4005	med- beige			AP	beige stiple dot patt fill
4008	med- beige			AP	beige sand dune default
4009	med- beige			AP	beige sand dune crescent
4010	med- beige			AP	beige sand dune lateral
4011	med- beige			AP	beige sand dune mound
4012	med- beige			AP	beige sand dune ripple
4013	med- beige			AP	beige sand dune star
4014	med- beige			AP	beige sand dune transverse
4015	beige- rose			AC(beige-rose)	beige-rose solid fill
4018	light-tan			AC(light-tan)	lt tan solid fill
4025	landf			AC(LANDF)	feature brown solid fill
4027	chbrn			AP	brown wide left diag patt fill
4028	chbrn			AP	brown horizontal lines patt fill
4030	chbrn			AP	brown left diag thin line patt fill
4032	chbrn			AP	brown stipple dot patt fill
4034	chbrn			AP	brown heavy mixed stipple dot patt fill
4036	med-red- brown			AC(med-red-brown)	red brown solid fill
4037	med-red- brown			AP	red brown horizontal line patt fill
4045	chgrn			AC(CHGRN)	green solid fill

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
4051	dark- green			AP	very dk green squares in grid patt fill
4052	chgrn			AP	green bamboo patt fill
4054	dark-			AP	very dk green offset grid/dot patt fill
	green				
4063	depit			AP	yellow-green stipple dot patt fill
4066	depit			AP	yellow-green variated stipple dot patt fill
4067	depit			AP	yellow-green dot patt fill
4068	depit			AP	yellow-green grass patt fill
4071	blue			AC(blue)	basic blue solid fill
4077	depvs			AP	depth med blue narrow rt diag line patt fill
4078	blue			AP	basic blue inundation area patt fill
4079	blu100			AP	100% cyan blue stipple dot patt fill
4080	blue			AP	basic blue marsh/swamp patt fill
4081	blue			AP	basic blue diag grid patt fill
4085	blue			AP	basic blue rice patt fill
4089	chmgd			AC(CHMGD)	magenta solid fill
4098	med-			AP	purple wide rt diag line patt fill
	purple				
4100	chgrf			AC(CHGRF)	lt gray solid fill
4105	chgrf			AP	It gray rt diag thin line patt fill
4107	chgrf			AP	lt gray dot patt fill
4108	chgrf			AP	lt gray land cover/ripple patt fill
4109	depcn			AC(DEPCN)	depth gray solid fill
4114	depcn			AP	depth gray horizontal lines patt fill
4123	depcn			AP	depth gray stiple patt fill
4124	depcn			AP	depth gray land cover/ripple patt fill
4128	chylw			AC(CHYLW)	yellow solid fill
4138	blue-4			AC(blue-4)	med blue solid fill
4145	depmd			AP	depth pale blue lft diag dash line patt fill
4150	depmd			AP	depth pale blue stiple dot patt fill
4151	blue			AP	basic blue ripple jagged patt fill
4152	blue-3			AC(blue-3)	lt blue solid fill
4154	blu31			AC(blu31)	31% cyan blue solid fill
4156	chblk			AC(CHBLK)	black solid fill
4167	chblk			AP	black cross hatch patt fill
4170	blue-3			AP	lt blue mixed stipple dot patt fill
4175	aplrt			AC(APLRT)	lt orange solid fill
4180	depmd			LS(S-DASH,1,DEPMD)	depth pale blue very thin short dash line
4182	blu31			LS(S-DASH,1,blu100)	100% cyan blue very thin short dash line
4183	chmgd			LS(SOLD,3,CHMGD)	magenta solid line
4184	chmgd			LS(S-DASH,1,CHMGD)	magenta very thin short dash line
4185	chmgd			LS(S-DASH,2,CHMGD)	magenta thin short dash line
4186	chmgd			LS(DASH,2,CHMGD)	magenta thin dash line
4194	aero-blue			LS(S-DASH,1,aero-blue)	aero-blue very thin short dash line

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
4201	depcn			LS(DASH,2,DEPCN)	depth gray thin dash line
4202	depcn			LS(DOTT,2,DEPCN)	depth gray thin dotted line
4203	depcn			LC	depth gray line w/ two dashes
4217	med-			LS(SOLD,1,med-beige)	beige very thin solid line
	beige				
4220	beige			LS(SOLD,2,med-beige)	med-beige thin solid line
4230	depit			AP	yellow-green squares in grid patt fill
4236	med- beige			LS(SOLD,3,med-beige)	beige solid line
4240	chred			LS(SOLD,2,CHRED)	red solid thin line
4243	depsc			AC(DEPSC)	depth dk gray solid fill
4248	chgrf			AP	lt gray stipple dot patt fill
4249	chblk			AP	black x patt fill
4259	med-			LS(DASH,2,med-beige)	beige thin dash line
	beige				
4262	med- purple			LS(DASH,2,med-purple)	purple thin dash line
4265	blue			LS(SOLD,2,blue)	basic blue thin solid line
4266	blue			LS(SOLD,1,blue)	basic blue very thin solid line
4279	ninfo			LS(S-DASH,2,NINFO)	nav orange thin short dash line
4289	blue			AP	basic blue stipple dot patt fill
4303	blu100			AP	100% cyan blue rt diag line patt fill
4304	med-red-				red brown very very thin solid line
	brown			,	, ,
4305	med-red-			LC	red brown very very thin line w/ tick marks
	brown				
4306	med-red- brown			LS(L-DASH,1,med-red-brown)	red brown very thin long dash line
4307	med-red-			LS(L-DASH,1,med-red-	red brown very very thin long dash Iine
	brown			brown)	<i>y y c</i>
4308	med-red- brown			LS(S-DASH,1,med-red-brown)	red brown very very thin short dash line
4309	med-red- brown			LC	red brown vy vy thin long dash line w/ ticks
4310	med-red- brown			LC	red brown very vy thin dash line w/ tick marks
4311	blu100			LS(SOLD,1,blu100)	100% cyan very thin blue solid line
4312	blu100			LS(SOLD,1,blu100)	100% cyan blue very very thin solid line
4313	blu100			LS(DASH,1,blu100)	100% cyan blue very very thin dash line
4314	blu100			LC	100% cyan blue vy thin line w/ ticks on inside
4315	blu100			LC	100% cyan blue very very thin line w/ ticks
4316	blu100			LS(L-DASH,1,blu100)	100% cyan blue very thin long dash line
4317	blu100			LS(L-DASH,1,blu100)	100% cyan blue very very thin long dash line
4318	blu100			LS(S-DASH,1,blu100)	100% cyan blue very very thin short dash line
4319	chbrn			LS(DASH,3,CHBRN)	brown dash line
4319	chbrn			LC	brown double solid thin line
7520	CHOTH				orown double sond timi fille

Symbol #	Token1	Token2	Token3	Symbol Name	Symbol Description
4321	chbrn			LC	brown double dash thin line
4324	chgrd			AP(DQUAL01)	gray U inside oval patt fill
4325	chmgd			SY(RDOSTA02) for pillar	lg magenta cir
4326	chmgd			bouy SY(RTPBCN02) for pillar bouy	lg magenta dashed cir
5000	chmgd			SY(QUESMRK1)	magenta question mark
5001	chmgd			LC(QUESMRK1)	magenta thin line w/ question mark

SYMBOL TO PRODUCT CROSS-REFERENCE

D.1 SCOPE

D.1.1 <u>Scope</u>. This appendix provides a cross-reference between each symbol and the products/features that use that symbol. It is a mandatory part of the specification. The information contained herein is intended for compliance.

D.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

D.3 SYMBOL TO PRODUCT CROSS REFERENCE

This appendix is sorted by symbol number and VPF product to provide a cross-reference between each symbol and the products/features that use that symbol. This appendix is completely textual and contains no graphic depictions of the symbols. Refer to Appendix A or Appendix G for a graphic depiction of the symbols.

There are two sections to this appendix. This first section provides information on the full chart symbols and the second section provides information on the simplified symbols. At this time, the simplified symbol cross-reference will only contain the DNC product.

Symbol to Product Cross-Reference Full Chart

				ii Oilait	
0001	Point	SY(PRDINS02)		feature brown mine symb	bol
DNC		P AA010			mine/quarry
0002	Point	SY(BUISGL11)		feature brown filled squa	
	FUIIL	P AD030		realure brown filled squa	
DNC		P AK160			substation/transformer yard
DNC			16 04 AND 11 0 0 0 0 0 14		stadium/amphitheater
DNC		P AL015	bfc=81 AND sta=0or2or3or6or11		building - maritime station
DNC		P AL018			building superstructure addition
DNC		P AL200	loc=22 AND vrr=1		ruins - offshore, does not cover
DNC		P AL200	loc=8		ruins - on ground surface
DNC		P AQ116			pumping station
DTOP		P AL200			ruins
UVM		P AL200			ruins
VML0		P AL200			ruins
VML1		P AL200			ruins
VML2		P AL200			ruins
0003	Point	SY(CHIMNY11)		black chimney symbol	
DNC		P AF010			chimney/smokestack
DTOP		P AF010			chimney/smokestack
UVM		P AF010			chimney/smokestack
VML1		P AF010			chimney/smokestack
VML2		P AF010			chimney/smokestack
0004	Point	SY(TOWERS03)		black tower symbol	
DNC	1 Ollit	P AF030		black tower symbol	cooling tower
DNC		P AL240			tower (non-communication)
DNC		P AM030			grain elevator
DNC		P AQ060			control tower
DNC		P AT080			communication tower
DTOP		P AM030			grain elevator
UVM		P AM030			grain elevator
VML1		P AM030			grain elevator
VML2		P AM030			grain elevator
	5 · .				
0005	Point	SY(CRANES01)		feature brown crane sym	
DNC		P AF040			crane
DTOP		P AF040			crane
UVM		P AF040			crane
VML1		P AF040			crane
VML2		P AF040			crane
0006	Point	SY(FLASTK11)		black flare stack symbol	
DNC		P AF070			flare pipe
DTOP		P AF070			flare pipe
UVM		P AF070			flare pipe
VML1		P AF070			flare pipe
VML2		P AF070			flare pipe
0007	Point	SY(FORSTC11)		black square	
DNC		P AH010			bastion/rampart/fortification
DNC		P AH050			fortification
8000	Point	SY(WNDMIL12)		black sm cir w/ X on top	
	I- OITIL	P AJ050		DIACK SITI CIT W/ A OIT LOP	windmill
DNC DTOP		P AJ050 P AJ050			windmill
		P AJ050 P AJ050			windmill
UVM		P AJ050 P AJ050			windmill
VML1		1 13000		271	windmill

Produ	ıct	Delin	FCODE	Attribute Condition		Description
VML2		Р	AJ050			windmill
0009	Point	S	Y(POSGEN01)		feature brown dot inside	cir
DNC		Р	BC010	nst=45		beacon - radar station
DNC		Р	BC020	nst=45		buoy - radar station
DNC		Р	BC040	nst=45		light - radar station
DNC		Р	BC070	nst=45		light vessel/lightship - radar station
0010	Point	S	Y(BUIREL13)		black 'iron cross'	
DNC		Р	AL015	bfc=7 AND hwt=0or2or3or4or7or2	2	building - house of worship
0011	Point	S	Y(BUIREL14)		black X inscribed in recta	angle
DNC		Р	AL015	bfc=7 AND hwt=11or14or15or16o	r20or21	building - house of worship
UVM		Р	AL015	bfc=7or114 AND hwt=11or14or15	or16	building - house of worship
VML1		Р	AL015	bfc=7 AND hwt=11or14or15or16		building - house of worship
VML2		Р	AL015	bfc=7 AND hwt=11or14or15or16		building - house of worship
0012	Point	S	Y(BUIREL15)		black mosque/minaret w/	dot in circle
DNC		Р	AL015	bfc=7 AND hwt=5or6or9		building - house of worship
UVM		Р	AL015	bfc=7or114 AND hwt=5or6or9		building - house of worship
VML1		Р	AL015	bfc=7 AND hwt=5or6or9		building - house of worship
VML2		Р	AL015	bfc=7 AND hwt=5or6or9		building - house of worship
0013	Point	S	Y(CGUSTA02)		It magenta CG in rectang	gle w/ pale green fill
DNC		Р	AL015	bfc=81 AND sta=1		building - maritime station
0014	Point	S	Y(RSCSTA02)		black filled diamond cntre	ed on horizontal line
DNC		Р	AL015	bfc=81 AND sta=5		building - maritime station
VML1		Р	AL140			particle accelerator
0015	Point	S	Y(SISTAT02)		It magenta SS in rectang	le w/ pale green fill
DNC		Р	AL015	bfc=81 AND		building - maritime station
DNC		Р	BG020	sta<>0and<>1and<>2and<>3and	<>5and<>6and<>11	tido goveo
DNC						tide gauge
0016	Point		Y(BUAARE02)		feature brown filled cir	h. 90
DNC		P	AL020			built-up area
0017	Point		Y(CAIRNS11)		black three stacked sm c	
DNC		Р	AL025			cairn
DTOP		Р	AL025			cairn
VML0 VML1		P P	AL025 AL025			cairn
VML2		Р	AL025			cairn cairn
	Doint				blook rootongo obovo in	
0018 DNC	Point	P S	Y(NOTBRD11) AL050		black rectange above inv	
	Б.:					display sign
0019	Point		Y(FLGSTF01)		feature brown flag symbo	
DNC			AL073			flagstaff/flagpole
0020	Point		Y(MONUMT12)		black hatched trapazoid	
DNC			AL130			monument
0021	Point	S	Y(SILBUI11)		feature brown filled cir w	/ black outline
DNC		Р	AM020			grain bin/silo
0022	Point	S'	Y(TNKCON12)		black cir	
DNC		Р	AM070			tank
TOD4		Р	BF012			hull integrity test site core site
0023	Point	S	Y(TOWERS12)		black water tower symbo	l .
DNC		Р	AM080		<u> </u>	water tower

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0024	Point	S	Y(POSGEN03)		black dot inside cir	
DNC		Р	AK020			amusement park attraction
DNC		Р	AK080			drive in theater screen
DNC		Р	AQ020			aerial cableway pylon/ski pylon
DNC		Р	AT040			power transmission pylon
DTOP		Р	BI050			water intake tower
UVM		Р	BI050			water intake tower
VML1		P -	BI050			water intake tower
VML2		Р	BI050			water intake tower
0025	Point		Y(GATCON04)		traffic magenta lg cir, 2 h	oriz & 1 vert line
DTOP		Р	BI040			sluice gate
UVM		Р	BI040			sluice gate
VML0		P P	BI040			sluice gate
VML2			BI040			sluice gate
0026	Point	_	Y(MSTCON14)		black tall slender triangle	
DNC		Р	AQ110			mooring mast
0027	Point		Y(QUARRY01)		feature brown mine symb	pol inside circle
DNC		Α	AA010			mine/quarry
0028	Point	: S	Y(DOMES011)+	SY(RDOSTA02)	black dome inside lg mag	genta circle
DNC		Р	AT045	ssc=87		radar transmitter - dome
0029	Point	S	Y(RASCAN11)+	SY(RDOSTA02)	black rectangle below T	in lg magenta cir
DNC		Р	AT045	ssc=108		radar transmitter - scanner
0030	Point	: S	Y(MSTCON14)+	SY(RD0STA02)	black triangle w/ in lg ma	genta cir
DNC		Р	AT045	ssc=60		radar transmitter - mast
0031	Point	S	Y(TOWERS03)-	SY(RDOSTA02)	black tower inside lg mag	genta cir
DNC		Р	AT045	ssc=107		radar transmitter - tower
0032	Point	S	Y(BRTHNO01)		magenta circle	
DNC		Р	BB020			berth
0033	Point	S	Y(BUISGL11)+	SY(RDOSTA02)	feature brown fill sqr blad	ck otln in la manta cir
DNC		Р	AT050	- (,		communication building
0035	Point	· S	Y(LNDARE01)		It brown sm filled cir w/ g	
DNC	1 Ont	P	BA030		it brown sin fined cir w/ g	island
	Doint				maganta anabar	isiana
0036 DNC	Point	P	Y(ACHARE02) BB010	mac<>12	magenta anchor	anchorage, not anchoring borth
DTOP		' P	BB010 BB010	IIIdC<>12		anchorage - not anchoring berth anchorage
VML2		Р	BB010			anchorage
	Point	. 9	Y(ACHBRT07)		magenta anchor w/ sm c	
DNC	, On it	P	BB010	mac=12	magenta antinoi w/ sili t	anchorage - anchoring berth
DNC		А	BB010	mac=12		anchorage - anchoring berth
0038	Point		Y(MORFAC03)		It brown filled square w/ l	
DNC	ı Ullıl	P	BB080		n brown mieu square W/ I	dolphin
DNC		Р	BB160			mooring ring
0039	Point		Y(RDOCAL02)		traffic magenta cir w/ 1 c	
DNC	· On it	. Э	BB050	df3<>0	trame magerita di W/ 1 di	calling-in point - more than two-way traffic, 1st direction
DNC		Р	BB050	df3<>0		calling-in point - more than two-way traffic, 2nd direction
DNC		Р	BB050	df3<>0		calling-in point - more than two-way traffic, 3rd direction
DNC		Р	BB050	df4<>0		calling-in point - more than two-way traffic, 4th direction
DNC		Р	BB050	df1<>0 AND df2=0		calling-in point - one way traffic

Produ	ıct l	Delin	FCODE	Attribute Condition		Description
0040	Point	S	Y(RDOCAL03)		traffic magenta cir w/ 2 c	ones
DNC		Р	BB050	df2<>0 AND df3=0	•	calling-in point - two way traffic
0041	Point	S\	Y(RCLDEF01)		magenta cir w/ 2 cones a	and 2 ?
DNC			BB050	df1=0	g	calling-in point - direction of traffic unknown
0042	Point	S	Y(HRBFAC09)		magenta fish w/ arcs abo	
DNC	1 Onit		BB105		magema non w aree abe	fishing harbor
0043	Point	67	Y(SMCFAC02)		magenta yacht inside lg	
DNC	1 OIIIL	Р	BB150		magerita yaciit inside ig t	landing place
DNC			BB150			landing place
0044	Point	21	Y(BOYINB01)		black installation buoy	3,
DNC	1 OIIIL		BB170		black illistaliation buoy	offshore loading facility
	Daint				ava. fiab inside ast	onshire loading facility
0045	Point	P	Y(MARCUL02) BB180		gray fish inside net	aveter had/myraal had
DNC						oyster bed/mussel bed
0046	Point		Y(BRIDGE01)		magenta small circle insi	
DNC		Α	AQ040	bsc=12 OR bot=4or10or11		bridge/overpass/viaduct
0047	Point		Y(FSHFAC02)		gray rectangle w/ angle l	ine on top
DNC		A	BB110			fish traps/fish weirs
DNC			FC021	mac=56		maritime limit boundary - fish traps
0051	Point		Y(PILPNT02)		black filled sm cir	
DNC		P -	BB030			bollard
DNC		Р	BC020	btc=35		buoy - articulated light (base)
DNC		P P	BC040 BC080			light - base symbol
DNC DNC		P	BD100			perches/stakes pile/piling/post
0052	Point		Y(OBSTRN01)		depth med blue fill cir w/	
DNC		Р	AL200	loc=22 AND vrr=4 AND hdp=0		ruins - offshore, submerged - depth unknown
DNC		Р	BD000	hdp=0		underwater danger/hazard - depth unknown
DNC		Р	BD020	vrr=4 AND hdp=0		crib - submerged; depth unknown
DNC		Р	BD030			discolored water
DNC		Р	BD140	vrr=4 AND hdp=0		snags/stumps - submergerd; depth unknown
TOD4		Р	BD005	wkt=35		miscellaneous underwater feature - obstruction
0053	Point	S'	Y(DANGER01)		depth med blue fill lg ova	l w/ black dot outline
DNC		Р	AL200	loc=22 AND vrr=4 AND hdp>0and	<=20	ruins - offshore, submerged - depth 20m or less
DNC		P -	BD000	hdp>0and<=20		underwater danger/hazard - depth 20m or less
DNC		Р	BD020	vrr=4 AND hdp>0and<=20		crib - submerged; depth 20m or less
DNC		Р	BD130	vrr=4 AND hdp>0and<=20		rock - submerged; depth 20m or less
DNC		P P	BD140 BD180	vrr=4 AND hdp>0and<=20 vrr=4 AND hdp>0and<=20		snags/stumps - submerged; depth 20m or less
				VII-4 AND hap-band\-20		wreck - submerged; depth 20m or less
DNC		۰.				
0054	Point		Y(DANGER02)	InOO AND IN A AND I I SE	Ig black oval w/ dotted ou	
0054 DNC	Point	Р	AL200	loc=22 AND vrr=4 AND hdp>20	Ig black oval w/ dotted ou	ruins - offshore, submerged - depth greater than 20m
DNC DNC	Point	P P	AL200 BD000	hdp>20	Ig black oval w/ dotted ou	ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m
DNC DNC DNC	Point	Р	AL200	hdp>20 vrr=4 AND hdp>20	lg black oval w/ dotted oા	ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m crib - submerged; depth greater than 20m
DNC DNC	Point	P P P	AL200 BD000 BD020	hdp>20	Ig black oval w/ dotted ou	ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m
DNC DNC DNC DNC	Point	P P P	AL200 BD000 BD020 BD130	hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20	Ig black oval w/ dotted ou	ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m crib - submerged; depth greater than 20m rock - submerged; depth greater than 20m
DNC DNC DNC DNC DNC DNC	Point	P P P P	AL200 BD000 BD020 BD130 BD140	hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20	Ig black oval w/ dotted ou	ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m crib - submerged; depth greater than 20m rock - submerged; depth greater than 20m snags/stumps - submerged; depth greater than 20m wreck - submerged; depth greater than 20m
DNC DNC DNC DNC DNC DNC DNC DNC		P P P P	AL200 BD000 BD020 BD130 BD140 BD180	hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20		ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m crib - submerged; depth greater than 20m rock - submerged; depth greater than 20m snags/stumps - submerged; depth greater than 20m wreck - submerged; depth greater than 20m w/ black dot outline
DNC DNC DNC DNC DNC DNC DNC DNC DNC		P P P P P	AL200 BD000 BD020 BD130 BD140 BD180 Y(OBSTRN03)	hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20 vrr=4 AND hdp>20		ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m crib - submerged; depth greater than 20m rock - submerged; depth greater than 20m snags/stumps - submerged; depth greater than 20m wreck - submerged; depth greater than 20m

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0056	Point	S	Y(WATTUR02)		gray waves symbol	
DNC		Р	BD010		g,	breakers
DNC		P	BD040			eddies
DNC		Р	BD080			overfalls/tide rips
DNC		Α	BD010			-
		A	BD040			breakers
DNC		A	BD040 BD080			eddies
DNC						overfalls/tide rips
0057	Point		Y(OBSTRN11)		It brown square with dk g	•
DNC		P P	BD020 BD140	vrr=1 AND hdp=NULL		crib - partly submerged/dry; depth null
DNC				vrr=1 AND hdp=NULL		snags/stumps - partly submergerd/dry; depth null
0058	Point		Y(LOWACC01)		black leader line w/ ques	tion mark
DNC		Р	BD000	acc<>1		underwater danger/hazard - not accurate
DNC		Р	BD020	acc<>1		crib - not accurate
DNC		Р	BD030	acc<>1		discolored water - not accurate
DNC		Р	BD130	acc<>1		rock - not accurate
DNC		Р	BD140	acc<>1		snags/stumps - not accurate
DNC		Р	BD180	acc<>1		wreck - not accurate
DNC		Α	BD000	acc<>1		underwater danger/hazard - not accurate
DNC		Α	BD020	acc<>1		crib - not accurate
DNC		Α	BD030	acc<>1		discolored water - not accurate
DNC		Α	BD100	acc<>1		pile/piling/post - not accurate
DNC		Α	BD120	vrr<>8 AND acc<>1		reef - not covers and uncovers, not accurate
DNC		Α	BD140	acc<>1		snags/stumps - not accurate
0059	Point	S	Y(FOULGND1)		gray pound (#) symbol	
DNC		Р	BD050			foul ground
DNC		Α	BD050			foul ground
0060	Point	S	Y(WEDKLP03)		gray kelp symbol	
DNC		Р	BD060			kelp/seaweed
DNC		Α	BD060			kelp/seaweed
0061	Point	S	Y(OFSPLF01)		black dot inside square	
DNC		Р	BD110			platform
0062	Point	S	Y(UWTROC03)		black cross in dotted cir,	depth med blue fill
DNC		Р	BD130	vrr=4 AND hdp=0	,	rock - submerged; depth unknown
0063	Point		Y(UWTROC04)	·	black 6 point asterisk	5 / 1
DNC	1 On it	. Р	BD130	hdp=NULL	black o politi asterisk	rock - depth null
DTOP		Р	BD130	hap-NOLL		•
		Р	BD130			rock
VML0		Р	BD130			rock
VML1		Р				rock
VML2	D		BD130			rock
0064	Point		Y(WRECKS01)		gray wreck symbol	
DNC DNC		P P	BD180 BD180	loc<>4 AND hdp=NULL hdp=NULL AND vrr=1or2or8		wreck - showing mast/hull/superstructure; depth null wreck - not submerged; depth null
0065	Point	S	Y(WRECKS05)		blck bar 3 ticks in dotted	
DNC	. 51110	P	BD180	hdp=NULL AND vrr=0	a.s. sa. o nono m dono	wreck - unknown; depth null
DNC		P	BD180	vrr=4 AND soh=1 AND hdp=0		wreck - submerged; dangerous; depth unknown
0066	Point	S	Y(WRECKS04)		black horiz bar w/3 ticks	
DNC		Р	BD180	vrr=4 AND soh=2 AND hdp=0		wreck - submerged; not dangerous; depth unknown
TOD4		Р	BD180			wreck
	Doint				arou arrow w/ 2 foothers	
0071 DNC	Point	: 5 P	Y(CURDEF01) BG010	cur=0 OR dof=0	gray arrow w/ 2 feathers	
DINC		r	DOM	Cui-U OR UUI-U		current flow - general; direction unknown

Produ	ıct	Delin	FCODE	Attribute Condition		Description
TOD0		Р	BG010	cur=0 OR dof=0		current flow - general; direction unknown
0072	Point	S	Y(CURENT01)		gray arrow w/ two feather	rs
DNC		Р	BG010	cur=3or5 AND dof<>0	5 .,	current flow - general, ocean; direction known
TOD0		Р	BG010	cur=5 AND dof<>0		current flow - ocean; direction known
0073	Point	S'	Y(EBBSTR01)		gray arrow w/ no feathers	S
DNC		Р	BG010	cur=1 AND dof<>0		current flow - ebb; direction known
0074	Point	S	Y(FLDSTR01)		gray arrow w/ one feathe	r
DNC		Р	BG010	cur=2 AND dof<>0		current flow - flood; direction known
0076	Point	S'	Y(TIDSTR01)		gray diamond	
DNC		Р	BG030		• ,	tide data point
0077	Point	S'	Y(HILTOP11)		black radiating cones	
DNC		Р	BJ060		·	ice peak/nunatak
0078	Point	S	Y(POSGEN04)		black sm cir	
DNC		Р	CA030			spot elevation
DTOP		Р	AA050	pro<>116		well - not water
TOD0		Р	ZB035			control point/control station
UVM		P	AA050	pro<>116		well - not water
VML0		Р	AA050			well
VML1 VML2		P P	AA050 AA050	pro<>116 pro<>116		well - not water well - not water
	Doint			pio<>110	facture brown side view	
0079 DNC	Point	P	Y(TREPNT04) EC030		feature brown side view	trees
	Doint				maganta solid filled diam	
0080 DNC	Point	P	Y(PILBOP02) FC021	mac=48	magenta solid filled diam	maritime limit boundary - pilot boarding
DNC		A	FC021	mac=48		maritime limit boundary - pilot boarding
FFD		Р	GB065			seaplane base
0081	Point	S'	Y(INFARE51)		It magenta square w/ I	
DNC		Α	AL005		,	animal sanctuary
DNC		Α	FC021	mac=30or35		maritime limit boundary - dumping, explosive dumping
DNC		Α	FC021	mac=31		maritime limit boundary - incineration
DNC		A	FC021	mac=49		maritime limit boundary - cargo Xshipment
DNC DNC		A A	FC036 FC036	mac=45or46 mac=21or23or61		restricted area - outfall, intake restricted area - pipelines, sewer
TOD0		Α	FC031	mac=101		maritime area - marine sanctuary
0082	Point	S	Y(ENTRES51)		traffic It magenta cir w/ ba	· ·
DNC	1 Onte	Р	FC031	mac=5	tramo il magenta dii wi bi	maritime area - entry prohibited
DNC		Р	FC036	mac=43		restricted area - area to be avoided
DNC		Α	FC031	mac=5		maritime area - entry prohibited
DNC		Α	FC036	mac=43		restricted area - area to be avoided
0083	Point	S	Y(TSSRON51)		traffic It magenta arc w/ a	arrowhead
DNC		Р	FC031	mac=40		maritime area - roundabout zone (TSS)
DNC		Α	FC031	mac=40		maritime area - roundabout zone (TSS)
0084	Point		Y(CHINFO06)		magenta cir w/! Inside	
DNC		P	FC021	mac<>48		maritime limit boundary - not pilot boarding
DNC		P	FC031	mac=0		maritime area - unknown
0085	Point		Y(FSHRES51)		It magenta fish w/ interse	
DNC DNC		P A	FC036 FC036	mac=22		restricted area - fishing prohibited
	Delini			mac=22	// was manufa	restricted area - fishing prohibited
0860	Point		Y(ACHRES51)	maa=15	It magenta open anchor	• •
DNC		Р	FC036	mac=15		restricted area - anchoring prohibited

Produ	ıct	Delin	FCODE	Attribute Condition		Description
DNC		Α	FC036	mac=15		restricted area - anchoring prohibited
0087	Point	S	Y(RSRDEF51)		traffic It magenta ! In Ig ca	ir w/ magenta ?
DNC		Р	FC031	mac=2		maritime area - dredged area
DNC		Р	FC036	mac=0or999		restricted area - unknown or other
DNC		Α	FC036	mac=0or999		restricted area - to be avoided, other
TOD0		Α	FC031	mac=0or144or145or154or999		maritime area - restricted areas
TOD0		Α	FC036			restricted area
0088	Point	S	Y(TSSLPT51)		traffic magenta filled arro	W
DNC		Р	FC041			traffic separation scheme (TSS)
0089	Point	S	Y(RTLDEF51)		traffic magenta dashed a	rrow w/ 2 manta 2's
DNC	1 Onit	Р	FC165	dof=0	trame magenta dasned a	route (maritime) - direction unknown
	D = 1 = 4			doi-0	f t t	· ,
0090	Point		Y(AIRARE02)		feature brown outline of p	•
DNC		Р	GB005			airport/airfield
0091	Point	S	Y(RECDEF51)		gray ? inside angle brack	tets inside dashes
DNC		Α	FC170			safety fairway
TOD0		Α	FC170			safety fairway
0092	Point	S	Y(PRCARE51)		traffic It magenta! Inside	triangle
DNC		Α	FC021	mac=42		maritime limit boundary - precautionary
0093	Point	S	Y(CTYARE51)		traffic It magenta ! Inside	Ig circle
DNC		Р	FC031	mac=4	<u> </u>	maritime area - mine danger area
DNC		Р	FC036	mac=37		restricted area - safety zone
DNC		Α	FC021	mac=44		maritime limit boundary - deguassing
DNC		Α	FC021	mac=58		maritime limit boundary - dredging area
DNC		Α	FC021	mac=32or33		maritime limit boundary - oil field, gas field
DNC		Α	FC021	mac=27or28or29		maritime limit boundary - submarine exercise, mine laying, firing range
DNC		Α	FC021	mac=24		maritime limit boundary - turning area
DNC		Α	FC031	mac=4		maritime area - mine danger
DNC		Α	FC036	mac=37		restricted area - safety zone
DNC		A	GB070			seaplane landing/seaplane take-off area
TOD0		A	FC031	mac=143or148or149or158		maritime area - military area, minefield
TOD0		Α	FC031	mac=27or28or115or116or140or14 153or157or159	46or147or150or151or152or	maritime area - military practice areas
0094	Point	S	Y(CBLARE51)		It magenta angled line	
DNC		Α	FC036	mac=20		restricted area - cables
0095	Point	S	Y(SWPARE51)		It gray under bar w/ upwa	ard bar on ends
DNC		Α	FC177			swept area
0096	Point	S	Y(CHINFO07)		magenta square w/ i	
DNC		Р	AQ080		· ·	ferry site
0097	Point	S	Y(CTNARE51)		traffic It magenta ! Inside	
DNC	1 Onit	Α	FC021	mac=0or999	tramo il magenia : morae	maritime limit boundary - unknown, other
DNC		Α	FC031	mac=0or9		maritime area - unknown, work in progress
DNC		Α	FC041	tsp=6or7		traffic separation scheme (TSS) - inbound or outboun area
DNC		Α	FC165	rtt=0		route (maritime) - use unknown
TOD0		Α	FC031	mac=141or142or155		maritime area - caution areas
	Point	S	Y(TWRDEF51)		traffic magenta dash dbl	head arrow w/ 2 ?'s
0098			,		<u> </u>	route (maritime) - 2-way
0098 DNC		Α	FC165	rtt=11		route (martime) 2 way
	Point		Y(BCNGEN01)	T((= 1)	black beacon/buoy base	Tode (manufic) 2 way

Produ	uct	Delin	FCODE	Attribute Condition		Description
0114	Point	: S`	Y(TOPMAR14)		black topmark open para	llelogram
DNC		Р	BC010	tmc=19or31	, , ,	beacon - rhombus/diamond
DNC		Р	BC040	tmc=19or31		light - rhombus/diamond
0122	Point	· S'	Y(TOPMAR22)		black topmark one cone	au
DNC		P	BC010	tmc=16or21	water topinan one cons	beacon - one cone up
DNC		Р	BC040	tmc=16or21		light - one cone up
0124	Point	. 51	Y(TOPMAR24)		black topmark one cone	
DNC	1 01110	. Р	BC010	tmc=22	black topinant one come	beacon - one cone down
DNC		P	BC040	tmc=22		light - one cone down
0125	Point		Y(TOPMAR25)		black topmark two cones	
DNC	1 OIIII	. P	BC010	tmc=3	black topillark two cories	beacon - two cones up
DNC		Р	BC040	tmc=3		light - two cones up
	D-:-4				blask tannands tura as na a	
0126	Point		Y(TOPMAR26)	t0	black topmark two cones	
DNC DNC		P P	BC010 BC040	tmc=8		beacon - two cones down
				tmc=8		light - two cones down
0127	Point		Y(TOPMAR27)		black topmark two cones	•
DNC		Р	BC010	tmc=1		beacon - two cones out
DNC		Р	BC040	tmc=1		light - two cones out
0128	Point	: S'	Y(TOPMAR28)		black topmark two cones	point in
DNC		Р	BC010	tmc=9		beacon - two cones in
DNC		Р	BC040	tmc=9		light - two cones in
0130	Point	: S'	Y(TOPMAR30)		black topmark one ball	
DNC		Р	BC010	tmc=15or27or28		beacon - one ball
DNC		Р	BC040	tmc=15or27or28		light - one ball
0132	Point	: S'	Y(TOPMAR32)		black topmark two balls	
DNC		Р	BC010	tmc=2		beacon - two balls
DNC		Р	BC040	tmc=2		light - two balls
0133	Point	: S`	Y(TOPMAR33)		black topmark can	
DNC		Р	BC010	tmc=25or26or29		beacon - can
DNC		Р	BC040	tmc=25or26or29		light - can
0150	Point	: S`	Y		yellow-green filled sm cir	w/ gray outline
DNC		Р	BA020			foreshore
0151	Point	· s	Y(DAYSQR21)		magenta box above inve	rted T with open cir
DNC	. 0	P	BC055		magoria box above mive	marker
	Doint	. 61			maganta air arrawa nting	
0154 DNC	Point	: S` P	BG040		magenta cir,arrows pting	current diagram
	<u> </u>				bl-sloten to the	Current diagram
0185	Point		Y(TOPMAR85)		black topmark special X	
DNC		P P	BC010 BC040	tmc=6		beacon - special (x)
DNC				tmc=6		light - special (x)
0186	Point		Y(TOPMAR86)		black topmark cross	
DNC		Р	BC010	tmc=23or30		beacon - upright cross
DNC		Р	BC040	tmc=23or30		light - upright cross
0187	Point		Y(TOPMAR87)		black topmark perch	
DNC		Р	BC010	tmc=18		beacon - perch
DNC		Р	BC040	tmc=18		light - perch
0188	Point	: S'	Y(TOPMAR88)		black topmark broom up	
DNC		Р	BC010	tmc=17		beacon - broom point up
DNC		Р	BC040	tmc=17		light - broom point up

Produ	uct	Delin	FCODE	Attribute Condition	Description
0199	Point	S	(TMARDEF1)		black default topmark upright
DNC		Р	BC010	tmc=0or32	beacon - default topmark
DNC		Р	BC040	tmc=0or32	light - default topmark
0202	Point	S	(TOPMAR02)		black buoy topmark one cone up
DNC		Р	BC020	tmc=16or21	buoy - one cone up
0204	Point	S	(TOPMAR04)		black buoy topmark one cone down
DNC		Р	BC020	tmc=22	buoy - one cone down
0205	Point	S	(TOPMAR05)		black buoy topmark two cones up
DNC		Р	BC020	tmc=3	buoy - two cones up
0206	Point	S	(TOPMAR06)		black buoy topmark two cones down
DNC		Р	BC020	tmc=8	buoy - two cones down
0207	Point	S	(TOPMAR07)		black buoy topmark two cones point out
DNC		Р	BC020	tmc=1	buoy - two cones out
0208	Point	S	(TOPMAR08)		black buoy topmark two cones point in
DNC		Р	BC020	tmc=9	buoy - two cones in
0210	Point	S	(TOPMAR10)		black buoy topmark one ball
DNC		Р	BC020	tmc=15or27or28	buoy - one ball
0212	Point	S	(TOPMAR12)		black buoy topmark two balls
DNC			BC020	tmc=2	buoy - two balls
0213	Point	S	(TOPMAR13)		black buoy topmark can
DNC		Р	BC020	tmc=25or26or29	buoy - can
0214	Point	S	(TOPMAR14)	for buoys	black buoy topmark open parallelogram
DNC		Р	BC020	tmc=19or31	buoy - rhombus/diamond
0217	Point	S	(TOPMAR17)		black buoy topmark upright cross
DNC		Р	BC020	tmc=23or30	buoy - upright cross
0265	Point	S	(TOPMAR65)		black buoy topmark special X
DNC		Р	BC020	tmc=6	buoy - special (x)
0299	Point	S	(TMARDEF2)		black buoy default topmark
DNC		Р	BC020	tmc=0or17or18or32	buoy - default topmark
0300	Point	S	(BOYGEN03)		black default buoy beside magenta ?
DNC		Р	BC020	btc=0 AND ssc=0or85or999	buoy - default; type unknown
0301	Point	S	(BOYBAR01)		black barrel buoy
DNC		Р	BC020	btc=0 AND ssc=1	buoy - barrel; type unknown
0302	Point	S	(BOYCAN01)		black can buoy
DNC		Р	BC020	btc=0 AND ssc=7	buoy - can; type unknown
0303	Point	S	(BOYCON01)		black cone buoy
DNC		Р	BC020	btc=0 AND ssc=6	buoy - conical; type unknown
0304	Point	S	(BOYMOR01)		black mooring barrel buoy
DNC		Р	BC020	btc=7 AND ssc=1	buoy - mooring; barrel
0305	Point	S	(BOYMOR03)		black mooring can buoy
DNC		Р	BC020	btc=7 AND ssc=7	buoy - mooring;can
0306	Point	S	(BOYPIL01)		black pillar buoy
DNC		Р	BC020	btc=0 AND ssc=10	buoy - pillar; type unknown
0307	Point	S	(BOYSPH01)		black spherical buoy
DNC		Р	BC020	btc=0 AND ssc=17	buoy - sphere; type unknown
0308	Point	S	(BOYSPR01)		black spar buoy
DNC		Р	BC020	btc=0 AND ssc=16	buoy - spar; type unknown

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0309	Point	: S'	Y(BOYSUP01)		black superbuoy	
DNC		Р	BC020	btc=0 AND ssc=73		buoy - superbuoy; type unknown
DNC		Р	BC020	btc=10		buoy - ODAS
0310	Point	S	Y(BOYSUP03)		black lanby	
DNC		Р	BC020	btc=4	,	buoy - LANBY
0311	Point	· S'	Y(BOYMOR11)		black mooring/installation	
DNC	1 On it	Р	BC020	btc=7 AND ssc<>1and<>7	black mooning/installation	buoy - mooring; not barrel, not can
0401	Point	S	Y(FOGSIG01) fo		It magenta arcs origin off	
DNC	1 01110	Р	AL015	bfc=81 AND sta=5 AND sst<>16	n magerita aree origin on	building - maritime station (rescue), sound signal
DNC		Р	BC010	sst=1or2or3or4or6or9or14or15		beacon - sound signal
DNC		Р	BC020	sst=1or2or3or4or6or9or14or15		buoy - sound signal
DNC		Р	BC040	sst=1or2or3or4or6or9or14or15		light - sound signal
DNC		Р	BC070	sst=1or2or3or4or6or9or14or15		light vessel/lightship - sound signal
0402	Point	s'	Y(FOGSIG01) fo	or others	It magenta arcs origin off	set - minimum
DNC		Р	AL015	bfc=81 AND sta<>5 AND sst<>16		building - maritime station (not rescue), sound signal
DNC		Р	BD110	sst<>16		platform - sound signal
0500	Point	: S	Y(LIGHTDEF)		magenta flare	
DNC		Р	BB170	cha=21		offshore loading facility - light
DNC		Р	BD110	cha=21		platform - lighted
0501	Point	: S	Y(LIGHTS01)		lights red flare	
DNC		Р	GA020		_	air obstruction light [DNC-specific]
0510	Point	: S'	Y(RADRFL03)		magenta arc w/ 5 ticks po	pinting upward
DNC		Р	BC010	ref=1	,	beacon - radar reflector present
DNC		Р	BC020	ref=1		buoy - radar reflector present
DNC		Р	BC040	ref=1		light - radar reflector present
DNC		Р	BC070	ref=1		light vessel/lightship - radar reflector present
0511	Point	: S'	Y(RDOSTA02)		lg magenta cir	
DNC		Р	AT045	ssc=0or999		radar transmitter - other, unknown
DNC		Р	BC010	nst=1or4or5or17or41or51or53		beacon - radio navigation system
DNC		Р	BC020	nst=1or4or5or17or41or51or53 AN	D ssc<>10	buoy - non-pillar; radio navigation system
DNC		P -	BC040	nst=1or4or5or17or41or51or53		light - radio navigation system
DNC		Р	BC070	nst=1or4or5or17or41or51or53		light vessel/lightship - radio navigation system
DNC		Р	GA035			navaids (aeronautical)
0512	Point		Y(RTPBCN02)		Ig magenta dashed cir	
DNC		Р	BC010	nst=10or54		beacon - radar navigation system
DNC DNC		P P	BC020 BC040	nst=10or54 AND ssc<>10 nst=10or54		buoy - non-pillar; radar navigation system
DNC		Р	BC070	nst=100r54		light - radar navigation system light vessel/lightship - radar navigation system
DNC		Р	BD110	nst=100r54		platform - radar navigation system
0513	Point		Y(LITFLT01)		black It float	,
DNC	· OIII	P	BC020	btc=6	Didon it nodt	buoy - light float
	Doint				black It vessel	
0514 DNC	Point	P	Y(LITVES01) BC070		black It vessel	light vessel/lightship
	Delin (managed significantly of the	light vessel/lightship
0517	Point		Y(NDB)	not-17	magenta circle with dot in	
TOD0		Р	GA035	nst=17		navaids (aeronautical) - NDB
0518	Point		Y(VOR)		magenta hexagon with de	
TOD0			GA035	nst=20		navaids (aeronautical) - VOR
0519	Point		Y(VORDME)		magenta hexagon in squ	
TOD0		Р	GA035	nst=21		navaids (aeronautical) - VOR/DME

Produ	ıct	Delin	FCODE	Attribute Condition	Description
0520	Point	: S`	Y(VORTAC)		magenta hexagon, solid outer rectgls, cntr dot
TOD0		Р	GA035	nst=22	navaids (aeronautical) - VORTAC
0521	Point	· S	Y(TACAN)		magenta hexagon, open outer rectgls, cntr dot
TOD0	1 01110		GA035	nst=23	navaids (aeronautical) - TACAN
	D - ! 4			1131-20	
0522	Point				green open triangle
TOD0		Р	GA055	wpt<>10	waypoint/reporting-calling in point - non compulsory
0523	Point		Y		green solid triangle
TOD0		Р	GA055	wpt=10	waypoint/reporting-calling in point - compulsory
0524	Point	: S'	Y		magenta open circle w/ diagonal cross bar
TOD1		Р	BD005	exs=57	miscellaneous underwater feature - sonar confirmed
TOD1		Р	BD180	exs=57	wreck - sonar confirmed
TOD2		Р	BD005	exs=57	miscellaneous underwater feature - sonar confirmed
TOD2		Р	BD180	exs=57	wreck - sonar confirmed
0525	Point	: S'	Y		magenta open very very thin circle
TOD0		Р	GA035	nst=0	navaids (aeronautical) - unknown
TOD1		Р	BD005	exs=58	miscellaneous underwater feature - reported
TOD1		Р	BD180	exs=58	wreck - reported
TOD2		Р	BD005	exs=58	miscellaneous underwater feature - reported
TOD2		Р	BD180	exs=58	wreck - reported
0526	Point	: S'	Y		purple open very thin circle
TOD4		Р	BD005	wkt<>35	miscellaneous underwater feature - not obstruction
0527	Point	: S'	′		purple filled circle
TOD4			FC180		hull integrity test site bottom feature
0600	Line	LS	S(SOLD,1,CH	BLK)	black very thin solid line
DNC		L	AK020	,	amusement park attraction
DNC		L	AL070		fence
DNC		L	AL260		wall
DNC		L	BH020		canal
DNC		L	BH140		river/stream
DNC		L	BH210		inland shoreline
DNC		Α	AC030		settling basin/sludge pond
DNC		A	AD010		power plant
DNC		A	AD030		substation/transformer yard
DNC		A	AH010		bastion/rampart/fortification
DNC		A	AH050 AK040		fortification
DNC DNC		A A	AK160		athletic field
DNC			AL015		stadium/amphitheater building
DNC			AL013 AL030		cemetery
DNC		A	AL200	loc=8	ruins - on ground surface
DNC			AL200	loc=22 AND vrr=1	ruins - offshore, does not cover
DNC		Α	AM030		grain elevator
DNC		Α	AM070		tank
DNC		Α	AQ116		pumping station
DNC		Α	AT020		early warning radar site
DNC		Α	BH020		canal
DNC		Α	BH080		lake/pond
DNC		Α	BH130		reservoir
DNC		Α	BH140		river/stream
DNC		Α	GB005		airport/airfield
			GB055		

Product	Delin	FCODE	Attribute Condition	Description
DTOP	Α	AC030		settling basin/sludge pond
DTOP	Α	AD010		power plant
DTOP	Α	AD030		substation/transformer yard
DTOP	Α	AK170		swimming pool
DTOP	Α	AL030		cemetery
DTOP	Α	BH020 ≪sdr		canal
DTOP	Α	BH020 sdr	cda<>2	canal - not covered
DTOP	Α	BH030 sdr	cda<>2	ditch - not covered
DTOP	Α	BH030 ≪sdr		ditch
DTOP	Α	BH040		filtration beds/aeration beds
DTOP	Α	BH080 ⇔sdr		lake/pond
DTOP	Α	BH080 sdr	hyc=8	lake/pond - perennial
DTOP	Α	BH130		reservoir
DTOP	Α	BI030		lock
DTOP	Α	BI050		water intake tower
FFD	Α	AC030		settling basin/sludge pond
FFD	Α	BH040		filtration beds/aeration beds
FFD	Α	BH130		reservoir
FFD	Α	BI030		lock
UVM	Α	AC030		settling basin/sludge pond
UVM	Α	AD010		power plant
UVM	Α	AD030		substation/transformer yard
UVM	Α	AK170		swimming pool
UVM	Α	AL030		cemetery
UVM	Α	AP020		interchange
UVM	A	AQ065		culvert
UVM	A	BH040		filtration beds/aeration beds
UVM	A	BH130		reservoir
UVM	A	BI030		lock
UVM	A	BI050		water intake tower
VML1	A A	AC030 AD010		settling basin/sludge pond
VML1	A	BH040		power plant
VML1	A	BH130		filtration beds/aeration beds
VML1	A	AC030		reservoir
VML2 VML2	A	AD010		settling basin/sludge pond
VML2	A	AD010 AD030		power plant
VML2	A	AK170		substation/transformer yard swimming pool
VML2	Α	AL030		cemetery
VML2	A	BH040		filtration beds/aeration beds
VML2	Α	BH130		reservoir
VML2	Α	BI030		lock
VML2	Α	BI050		water intake tower
WVS	L	ZD003		artifact location
0604 Line		S(SOLD,1,LAN	DF) feature brown	n very thin solid line
DNC	L	CA010		contour line (land)
DNC	A	AL020		built-up area
DNC	A	BB150 AA052		landing place
VML0	Α			oil/gas field
0605 Line		S(SOLD,2,LAN	DF) feature brow	n thin solid line
DNC	L	AK130		race track
DNC	L	AN010		railroad
DNC	L	AP020		interchange
DNC	L	AP030	D 000	road

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0606	Line	LS	S(SOLD,3,LA	ANDF)	feature brown solid line	
DNC			GB055	,		runway
0607	Line	19	S(SOLD,4,LA	ANDE)	feature brown thick solid	line
DNC	LIIIC		BI020	(NDI)	reature brown trick solid	dam/weir
	Lina			EDCN)	donth arous soms thin police	
0608	Line	L	S(SOLD,1,DI BA020	EPCN)	depth gray very thin solid	
DNC DNC		L	BE010	acc=1 AND crv<>ssdc		foreshore depth curve - accurate; not equal ssdc
TOD1		L	BE015	acc=1 AND crv<>ssdc		depth contour - accurate; not equal sadc
TOD2		L	BE015	acc=1 AND crv<>ssdc		depth contour - accurate; not equal ssdc
TOD4		L	BE015	acc=1 AND hqc<>1		depth contour - accurate,not index
0609	Line	1.9	S(SOLD,2,DI	EPSC)	depth dk gray thin solid l	ine
DNC	LIIIC	L	BE010	acc=1 AND crv=ssdc	depth an gray thin sona i	depth curve - accurate; equals ssdc
TOD1		L	BE015	acc=1 AND crv=ssdc		depth contour - accurate; equals ssdc
TOD2		L	BE015	acc=1 AND crv=ssdc		depth contour - accurate; equals ssdc
TOD4		L	BE015	acc=1 AND hqc=1		depth contour - accurate, index
0610	Line	1.9	S(SOLD,3,C	HGRD)	gray solid line	
DNC	Liiio	L	AQ113	loc=25	gray cona mio	pipeline/pipe - above ground or over water
DNC		L	BH010	loc=25		aqueduct - elevated
DNC		L	BH120			rapids
0611	Line	1.5	S(SOLD,4,C	HGRD)	gray thick solid line	
DNC	0	A	AQ040	bsc<>12 AND bot<>4and<>10an	•	bridge/overpass/viaduct
DNC		Α	AQ040	bsc=12 OR bot=4or10or11		bridge/overpass/viaduct
DNC		Α	AQ045			bridge span
0612	Line	LS	S(SOLD,1,C	HGRF)	It gray very thin solid line	
DTOP	0	L	FA090	, , ,	n gray rony amin coma milo	geophysical prospecting grid
VML1		L	FA090			geophysical prospecting grid
VML2		L	FA090			geophysical prospecting grid
0613	Line	LS	S(DASH,2,D	EPSC)	depth dk gray thin dash l	line
DNC		L	BE010	acc=2 AND crv=ssdc	3 2 7 2 2 2 2	depth curve - not accurate; equals ssdc
TOD1		L	BE015	acc=2 AND crv=ssdc		depth contour - not accurate; equals ssdc
TOD2		L	BE015	acc=2 AND crv=ssdc		depth contour - not accurate; equals ssdc
0614	Line	LS	S(DASH,1,D	EPCN)	depth gray very thin dasi	h line
DNC		L	BE010	acc=2 AND crv<>ssdc	3., ., .	depth curve - not accurate; not equal ssdc
TOD1		L	BE015	acc=2 AND crv<>ssdc		depth contour - not accurate; not equal ssdc
TOD2		L	BE015	acc=2 AND crv<>ssdc		depth contour - not accurate; not equal ssdc
0615	Line	LS	S(SOLD,3,C	HWHT)	pale green solid line	
DNC			BH180	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	pane green coma mic	waterfall
0620	Line	1 0	S(SOLD,6,TF	DECE)	traffic It magenta very ve	
DNC	LIIIC		FC041	tsp=4	traine it magerita very ve	traffic separation scheme (TSS) - separation zone line
	Lina			·		·
0621	Line		S(SOLD,1,D) BA010	,	depth med blue very thin	
DTOP DTOP		L L	BH180	slt<>6and<>8		coastline/shoreline - not mangrove or marsh waterfall
FFD		L	BA010	acc=1		coastline/shoreline - accurate
FFD		L	BH030	300 1		ditch
UVM		L	BA010	slt<>6and<>8		coastline/shoreline - not mangrove or marsh
UVM		L	BH030	hyc=0or8		ditch - perennial, unknown
UVM		L	BH210	slt=0or10or11or13or14or15		inland shoreline - unknown, rocky, rubble, sandy, stony, other
VML0		L	BA010			coastline/shoreline
VML0		L	BH000			inland water
VML1		L	BA010	slt<>6and<>8		coastline/shoreline -not mangrove or marsh

Product	Delin	FCODE	Attribute Condition		Description
VML1	L	BH030	hyc=0or8		ditch - perennial, unknown
VML1	L	BH180			waterfall
VML2	L	BA010	slt<>6and<>8		coastline.shoreline - not mangrove or marsh
VML2	L	BH030	hyc=0or8		ditch - perennial, unknown
VML2	L	BH180			waterfall
0623 Line	L	S(SOLD,2,C	STLN)	dk gray thin solid line	
DNC	L	BB040	vrr=1		breakwater/groyne - partly submerged at high water
DNC	L	BB140	vrr=1		jetty - partly submerged at high water
DNC	L	BB220	vrr=1		ramp (maritime) - partly submerged at high water
DNC	L	BB230			seawall
DNC	L	BB240	vrr=1		slipway/patent slip - partly submerged at high water
DNC	L	BI040			sluice gate
DNC	Α	BB040	vrr=1		breakwater/groyne - partly submerged at high water
DNC	Α	BB140	vrr=1		jetty - partly submerged at high water
DNC	Α	BB220	vrr=1		ramp (maritime) - partly submerged at high water
DNC	Α	BD020	vrr=1 AND hdp=NULL		crib - above surface
DNC	Α	BD100	vrr=1		pile/piling/post - does not cover
DNC	Α	BD140	vrr=1		snags/stumps - does not cover
DNC	Α	BD180	vrr=1 AND hdp=NULL		wreck - does not cover; depth null
DNC	Α	BI030	•		lock
DTOP	L	BB040			breakwater/groyne
DTOP	L	BB140			jetty
DTOP	L	BB220			ramp (maritime)
DTOP	L	BB230			seawall
DTOP	L	BI040			sluice gate
DTOP	A	BB040			breakwater/groyne
DTOP	Α	BB140			jetty
DTOP	Α	BB220			ramp (maritime)
UVM	L	BB040			breakwater/groyne
UVM	L	BB140			jetty
UVM	L	BB230			seawall
UVM	L	BB240			
UVM	L	BI040			slipway/patent slip
	A	BB040			sluice gate
UVM	A	BB140			breakwater/groyne
UVM					jetty
VML0	L	BB040			breakwater/groyne
VML0	L	BB230			seawall
VML1	L	BB040	2.1		breakwater/groyne
VML1	L	BB140	vrr=0or1		jetty - unknown, partly submerged at high water
VML1	L	BB230			seawall
VML2	L	BB040			breakwater/groyne
VML2	L	BB140			jetty
VML2	L	BB230			seawall
VML2	L	BB240			slipway/patent slip
VML2	L	BI040			sluice gate
VML2	Α	BB040			breakwater/groyne
VML2	A	BB140			jetty
VML2	A	BB240			slipway/patent slip
0624 Line		S(DASH,1,L	ANDF)	feature brown very thin	
DNC	A	AA010			mine/quarry
DNC	A	AB000			disposal site/waste pile
DNC	A	AB010			wrecking yard/scrap yard
DNC	A	AC000			processing plant/treatment plant
DNC	Α	AM010			depot (storage)

Produ	ıct	Delin	FCODE	Attribute Condition		Description
	i Ci	Delili	TOODL	Attribute condition		Description
DNC		Α	AM040			mineral pile
DNC		Α	EA040			orchard/plantation
DNC		Α	EA050			vineyards
DNC		Α	EC030	veg<>19		trees - not mangrove
DNC		Α	EC030	veg=19		trees - mangrove
DTOP		Α	AC000			processing plant/treatment plant
UVM		Α	AC000			processing plant/treatment plant
VML1		Α	AC000			processing plant/treatment plant
VML2		Α	AC000			processing plant/treatment plant
0625	Line	L;	S(SOLD,4,CST	LN)	dk gray thick solid line	
DNC		L	BB170			offshore loading facility
DNC		L	BB190			pier/wharf/quay
DNC		Α	BB170			offshore loading facility
DNC		Α	BB190			pier/wharf/quay
DTOP		L	BB190			pier/wharf/quay
DTOP		Α	BB190			pier/wharf/quay
FFD		L	BB190			pier/wharf/quay
FFD		Α	BB190			pier/wharf/quay
UVM		L	BB190			pier/wharf/quay
UVM		Α	BB190			pier/wharf/quay
VML0		L	BB190			pier/wharf/quay
VML1		L	BB190			pier/wharf/quay
VML1		Α	BB190			pier/wharf/quay
VML2		L	BB190			pier/wharf/quay
VML2		Α	BB190			pier/wharf/quay
0626	Line	L:	S(DASH,2,CST	LN)	dk gray thin dash line	
DNC		L	BB040	vrr=4or8		breakwater/groyne - submerged, covers and uncovers
DNC		L	BB140	vrr=4or8		jetty - submerged, covers and uncovers
DNC		L	BB220	vrr=4or8		ramp (maritime) - submerged, covers and uncovers
DNC		L	BB240	vrr=4or8		slipway/patent slip - submerged, covers and uncovers
DNC		Α	AL200	loc=22 AND vrr=8		ruins - offshore, covers and uncovers
DNC		Α	BB040	vrr=4or8		breakwater/groyne - submerged, covers and uncovers
DNC		Α	BB140	vrr=4or8		jetty - submerged, covers and uncovers
DNC		Α	BB220	vrr=4or8		ramp (maritime) - submerged, covers and uncovers
DNC		Α	BD020	vrr=8 AND hdp=NULL		crib - covers and uncovers
DNC		Α	BD100	vrr=8		pile/piling/post - covers and uncovers
DNC		Α .	BD140	vrr=8		snags/stumps - covers and uncovers
DNC		Α .	BD180	vrr=8 AND hdp=NULL		wreck - covers and uncovers; depth null
VML1		L	BB140	vrr=8		jetty - covers and uncovers
0627	Line	L;	S(SOLD,5,CHC	GRD)	gray very thick solid line	
DNC		L	AQ040	bsc<>12 AND bot<>4and<>10and	d<>11	bridge/overpass/viaduct
DNC		L	AQ045			bridge span
0629	Line	L;	S(DASH,2,CHC	GRD)	gray thin dash line	
DNC		L	FC021	mac=56 AND mbl=NULL		maritime limit boundary - fish traps
DNC		L	FC021	mbl<>7and<>13 AND mac=NULL	-	maritime limit boundary - not clearing line
DNC		Α	AL200	loc=22 AND vrr=4 AND hdp>20		ruins - offshore, submerged - depth greater than 20m
DNC		Α	BD000	hdp>20		underwater danger/hazard - depth greater than 20m
DNC		Α	BD020	vrr=4 AND hdp>20		crib - submerged; depth greater than 20m
DNC		Α	BD120	vrr=4 AND hdp>20		reef - submerged, depth greater than 20m
0630	Line	L	S(DOTT,2,CST	LN)	dk gray thin dotted line	
DNC		Α	BD180	vrr=4 AND hdp=0		wreck - submerged; depth unknown
DNC		Α	BD180	vrr=0or2 AND hdp=NULL		wreck - unknown; awash; depth null

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0631	Line	LS	S(SOLD,2,CF	HGRD)	gray thin solid line	
DNC		L	FC021	mac=26 AND mbl=NULL	g. 2, 2	maritime limit boundary - unsurveyed
DNC		Α	BE010	cvl=99999		depth area; depth unknown
DNC		Α	FC021	mac=26		maritime limit boundary - unsurveyed
0632	Line	LS	S(DASH,1,CS	STLN)	dk gray very thin dash lir	пе
DNC		L	BA010	slt=6or8	3 , ,	coastline/shoreline - mangrove, marsh
0633	Line	LS	S(DASH,2,CH	HGRF)	It gray thin dash line	
DNC		L	FC021	mac=57 AND mbl=NULL	0	maritime limit boundary - marine farm
FFD		Α	FA001			administrative area
TOD0		L	FC021	mbl<>6		maritime limit boundary - other
TOD0		L	FC021	mbl=6		maritime limit boundary - limit of territorial waters
UVM		Α	FA001			administrative area
VML0		Α	FA001			administrative area
VML1		Α	FA001			administrative area
VML2		Α	FA001			administrative area
WVS		L	FC021	mbl=6		maritime limit boundary - territorial waters limits
WVS		Α	FA001			administrative area
0634	Line	LS	S(DASH,1,CH	HMGD)	magenta very thin dash	line
DNC		L	FC021	mac=25 AND mbl=NULL		maritime limit boundary - spoil
DNC		L	FC021	mac=30or35 AND mbl=NULL		maritime limit boundary - dumping, explosive dumping
DNC		L	GB070			seaplane landing/seaplane take-off area
0635	Line	LS	S(DASH,1,CH	HMGF)	It magenta very thin dasi	h line
DNC		L	FC021	mac=49 AND mbl=NULL	•	maritime limit boundary - cargo Xshipment
DNC		L	FC021	mac=31 AND mbl=NULL		maritime limit boundary - incineration
0656	Line	LS	S(DASH,1,CH	HGRD)	gray very thin dash line	
DNC		L	AQ130			tunnel
DNC		L	BC100			leading line
DNC		L	FC021	mac=55 AND mbl=NULL		maritime limit boundary - fairway
DNC		L	FC021	mbl=13 AND mac=NULL		maritime limit boundary - clearing line
DNC		L	FC100			measured distance line
DNC		L	FC177			swept area
DNC		Α	BB115			gridiron
DNC		Α	BD010			breakers
DNC		A	BD040			eddies
DNC		A	BD080			overfalls/tide rips
DNC		A	BJ030			glacier
DNC		A	BJ065			ice shelf
DNC		A	BJ100			snow field/ice field
DTOP		L L	AP050 AP050			trail trail
FFD UVM		L	AK150			
UVM		L	AP050			ski jump trail
VML0		L	AP050			trail
VML1		L	AP050			trail
VML2		L	AK150			ski jump
VML2		L	AP050			trail
0657	Line	LS	S(DASH,4,CH	HGRD)	gray thick dash line	
DNC		L	AQ010	,	<u>.</u>	aerial cableway lines/ski lift lines
DNC		L	AT030			power transmission line
DNC		L	AT060			telephone line/telegraph line
DTOP		L	AQ010			aerial cableway lines/ski lift lines

Product	Delin	FCODE	Attribute Condition		Description
VML0	L	AQ010			aerial cableway lines/ski lift lines
VML1	L	AQ010			aerial cableway lines/ski lift lines
VML2	L	AQ010			aerial cableway lines/ski lift lines
0663 Lir	ne L	S(DASH,2,TRF	CD)	traffic magenta thin dash	line
DNC	L	FC021	mac=42 AND mbl=NULL		maritime limit boundary - precautionary
DNC	L	FC021	mac=0or999 AND mbl=NULL		maritime limit boundary - unknown, other
DNC	L	FC031	mac=0or9		maritime area - unknown, work in progress
DNC	L	FC130			radar reference line
0665 Lin	ne L	S(DASH,4,TRF	CD)	traffic magenta thick dasi	h line
DNC	L	FC031	mac=40or41		maritime area - TSS
DNC	L	FC041	tsp=2		traffic separation scheme (TSS) - outer boundary
0669 Lir	ne L	S(DASH,1,DEP	VS)	depth med blue very thin	dash line
UVM	L	BH030	hyc=6		ditch - intermittent
VML1	L	BH030	hyc<>0and<>8		ditch - not perennial
VML2	L	BH030	hyc=6		ditch - intermittent
0670 Lin	ne L	S(DASH,2,DEP	VS)	depth med blue thin dash	n line
TOD1	L	BE040			track line
TOD2	L	BE040			track line
0680 Lin	ne L	S(DOTT,2,CHB	LK)	black thin dotted line	
DNC	L	FA000	use=32		administrative boundary - insular
DNC	Α	AL200	loc=22 AND vrr=4 AND hdp=0		ruins - offshore, submerged - depth unknown
DNC	Α	AL200	loc=22 AND vrr=4 AND hdp>0and	<=20	ruins - offshore, submerged - depth 20m or less
DNC	Α	BC080			perches/stakes
DNC	Α	BD000	hdp=0		underwater danger/hazard - depth unknown
DNC	Α	BD000	hdp>0and<=20		underwater danger/hazard - depth 20m or less
DNC	A	BD020	vrr=4 AND hdp>0and<=20		crib - submerged; depth 20m or less
DNC	A	BD020	vrr=4 AND hdp=0		crib - submerged; depth unknown
DNC	A	BD030			discolored water
DNC	Α	BD100	vrr=4		pile/piling/post - submerged
DNC	A A	BD120 BD120	vrr<>8 AND hdp=0orNULL		reef - not covers and uncovers, depth unknown or null
DNC DNC	A	BD140	vrr=4 AND hdp>0and<=20 vrr=4		reef - submerged, depth 20m or less
DNC	A	BD180	vrr=4 AND hdp>0and<=20		snags/stumps - submerged wreck - submerged; depth 20m or less
DTOP	A	BD100	VII-4 AND hap-band\-20		pile/piling/post
VML2	A	BD100			pile/piling/post
			:D\	Ill you dk blue thin colid	
0681 Lir		S(SOLD,2,UINF FC031	mac=104	UI very dk blue thin solid	
					maritime area - major op area
0682 Lin		S(SOLD,1,UINF		UI very dk blue very thin	
TOD0		FC031	mac=105		maritime area - minor op area
0683 Lin		S(DOTT,3,UINF	,	UI very dk blue dotted lin	
TOD0	Α	FC031	mac=114		maritime area - sea test range
0684 Lin		S(SOLD,2,red)		red thin solid line	
TOD0	L	FC101			theodolite line
0685 Lin	ne L	S(SOLD,2,opgre	een)	green thin solid line	
TOD0	Α	GA005	aua=39		airspace - upper control area
0686 Lin	ne L	S(SOLD,4,med-	-purple)	purple thick solid line	
TOD4	L	FC180	htc<>507and<>509		hull integrity test site bottom feature - not cable, not slope > 10 degrees
0687 Lin	ne L	S(L-DASH,4,me	ed-purple)	purple thick long dash lin	e
TOD4	Α	FC178			hull integrity test area

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0688	Line	LS	(L-DASH,2,DE	PSC)	depth dk gray thin long d	ash line
TOD4		L	BE015	acc<>1 AND hqc=1		depth contour - not accurate, index
0689	Line	LS	(L-DASH,1,DE	PCN)	depth gray very thin long	dash line
TOD4			•	acc<>1 AND hqc<>1	aspan gray very aminong	depth contour - not accurate, not index
0700	Line	10	(FERYRT01)	·	magenta dash very thin li	
DNC	Lino		,	fer=2	magonia adon vony imm n	ferry crossing - without cables
0701	Line		(FERYRT02)		black dash very thin line	
DNC	LIIIC		·	fer=1	black dash very thin line	ferry crossing - with cables
	Lino		(PIPSOL06)		grov doch vory thin line w	
0704 DNC	Line		,	loc<>25 AND pro=116	gray dash very thin line w	
DNC		L	AQ113	loc<>25 AND pro=95 OR plt=2or3		pipeline/pipe - not above ground or over water; water pipeline/pipe - not above ground or over water; sewage, outfall, intake
DNC				loc<>25		aqueduct - not elevated
0705	Line		(PIPSOL05)		magenta dash very thin li	
DNC		L	AQ113	loc<>25 AND pro<>95and<>116 A	ND pit<>2and<>3	pipeline/pipe - not above ground or over water; not sewage or water
0708	Line	LC	(CBLSUB06)		magenta broken zig-zag	line w/ flash symbol
DNC		L	AT005			cable
0711	Line	LC	(ACHARE51)		magenta dash/chevron lii	ne w/anchor symbol
DNC		L	BB010	mac<>12		anchorage - not anchoring berth
DNC		Α	BB010	mac<>12		anchorage - not anchoring berth
DTOP			BB010			anchorage
VML2		Α	BB010			anchorage
0712	Line	LC	(FSHFAC02)		gray L complex line	
DNC		L	BB100			fish stakes
0713	Line	LC	;		magenta compressed zig	-zag line
DNC		L	BC040			light
0716	Line	LC	(NAVARE51)		gray dash/chevron line	
DNC		Α	BB110			fish traps/fish weirs
DNC			BB180			oyster bed/mussel bed
DNC			BD050			foul ground
DNC			BH050 FC021	05		fish hatchery/fish farm/marine farm
DNC DNC			FC021	mac=25 mac=57		maritime limit boundary - spoil maritime limit boundary - marine farm
DNC			FC021	mac=56		maritime limit boundary - fish traps
DNC			FC021	mac=55		maritime limit boundary - fairway
DNC		Α	FC170			safety fairway
DNC		Α	FC177			swept area
DNC			ZC040			magnetic disturbance area
TOD0				mac=156		maritime area - safety lane
TOD0			FC170			safety fairway
VML1		Α	ZC040			magnetic disturbance area
0722	Line		(RESARE51)		magenta dashed T line	
DNC DNC			FC036 FC031	mac=41		restricted area maritime area - inshore traffic zone (TSS)
0723	Line		(DWRTCL08)		traffic magenta solid line	
DNC	0		FC165	atn=1 AND exs=22 AND rtt=3	maganta dana iino	route (maritime) - marked;1-way;recomm for deep draft vessels
0724	Line	LC	(DWRTCL07)		traffic magenta dash line	w/ > and DW
DNC			FC165	atn=2 AND exs=22 AND rtt=3	<u> </u>	route (maritime) - unmarked;1-way;recomm for deep draft vessels

Produ	ıct	Delin	FCODE	Attribute Condition		Description
0725	Line	10	(DWRTCL06)		traffic magenta solid line	w/ < > and DW
DNC			FC165	atn=1 AND exs=23 AND rtt=3		route (maritime) - marked;2-way;recomm for deep draft vessels
0726	Line	LC	(DWRTCL05)		traffic magenta dash line	w/ < > and DW
DNC		L	FC165	atn=2 AND exs=23 AND rtt=3		route (maritime) - unmarked;2-way;recomm for deep draft vessels
0727	Line	LC	(DWLDEF01)		traffic magenta dash line	w/ < ? > and DW
DNC		L	FC165	exs=0 AND rtt=3		route (maritime) - unknown;recomm for deep draft vessels
0728	Line	LC	(RECTRC12)		gray very thin line w/ >	
DNC		L	FC165	atn=1 AND exs=22 AND rtt<>3		route (maritime) - marked;1-way;not recomm for deep draft vessels
0729	Line	LC	(RECTRC11)		gray very thin dash line v	w/ >
DNC		L	FC165	atn=2 AND exs=22 AND rtt<>3		route (maritime) - unmarked;1-way;not recomm for deep draft vessels
0730	Line	LC	(RECTRC10)		gray very thin line w/ < >	
DNC			FC165	atn=1 AND exs=23 AND rtt<>3	, ,	route (maritime) - marked;2-way;not recomm for deep draft vessels
0731	Line	LC	(RECTRC09)		gray very thin dash line v	w/ < >
DNC			FC165	atn=2 AND exs=23 AND rtt<>3	, ,	route (maritime) - unmarked;2-way;not recomm for deep draft vessels
0732	Line	LC	(RECDEF02)		gray very thin dash line v	w/ < ? >
DNC		L	FC165	exs=0 AND rtt<>3		route (maritime) - unknown;not recomm for deep draft vessels
DNC		L	FC170			safety fairway
0733	Point	t SY	(LOCMAG51)		It magenta open flag	
DNC		Α	ZC040			magnetic disturbance area
VML1		Α	ZC040			magnetic disturbance area
0734	Line	LC	(CTYARE51)		magenta dash/chevron li	ine
DNC			AL005			animal sanctuary
DNC			FC021	mac=30or35		maritime limit boundary - dumping, explosive dumping
DNC			FC021	mac=58		maritime limit boundary - dredging area
DNC			FC021	mac=49		maritime limit boundary - cargo Xshipment
DNC			FC021	mac=48		maritime limit boundary - pilot boarding
DNC			FC021	mac=44		maritime limit boundary - deguassing
DNC DNC			FC021 FC021	mac=31 mac=27or28or29		maritime limit boundary - incineration maritime limit boundary - submarine exercise, mine laying, firing range
DNC		Α	FC021	mac=24		maritime limit boundary - turning area
DNC		Α	FC021	mac=32or33		maritime limit boundary - oil field, gas field
DNC		Α	FC031	mac=4		maritime area - mine danger
DNC		Α	FC031	mac=5		maritime area - entry prohibited
DNC		Α	FC036	mac=0or999		restricted area - to be avoided, other
DNC			FC036	mac=43		restricted area - area to be avoided
DNC			FC036	mac=37		restricted area - safety zone
DNC			FC165	rtt=11		route (maritime) - 2-way
DNC			GB070			seaplane landing/seaplane take-off area
TOD0			FC031	mac=0or144or145or154or999		maritime area - restricted areas
TOD0			FC031	mac=101		maritime area - marine sanctuary
TOD0 TOD0			FC031 FC031	mac=143or148or149or158 mac=27or28or115or116or140or14	46or147or150or151or152or	maritime area - military area, minefield maritime area - military practice areas
TOD0		Α	FC036	153or157or159		restricted area

Produ	ıct	Delin	FCODE	Attribute Condition	Description
0735	Line	LC	C(PIPARE51)		magenta dash/chevron line w/ dash, cir
DNC			FC036	mac=21or23or61	restricted area - pipelines, sewer
0736	Line	LC	C(PIPARE61)		gray dash/chevron line w/ dash, cir
DNC			FC036	mac=45or46	restricted area - outfall, intake
0737	Line	10	C(CBLARE51)		magenta dash/chevron line w/ flash symbol
DNC	Liiio		FC036	mac=20	restricted area - cables
0738	Line	10	C(PRCARE51)		magenta dash/chev line w/precaution symbol
DNC	LIIIC		FC021	mac=42	maritime limit boundary - precautionary
0739	Line		C(ACHRES51)		magenta T dash line w/ anchor symbol
DNC	LIIIC		FC036	mac=15	restricted area - anchoring prohibited
	1:			mac-15	
0740	Line		FC036	mac=22	magenta T dash line w/ fish symbol
DNC				mac=22	restricted area - fishing prohibited
0741	Line		C(DWRUTE51)		traffic magenta dash/chevron line w/ DW
DNC		А	FC165	rtt=4	route (maritime) - deep water
0742	Line		C(CTNARE51)		magenta dash/chevron line w/caution symbol
DNC			FC021	mac=0or999	maritime limit boundary - unknown, other
DNC			FC031 FC165	mac=0or9	maritime area - unknown, work in progress
DNC		A A	FC165 FC031	rtt=0 mac=141or142or155	route (maritime) - use unknown maritime area - caution areas
TOD0				mac=1410114201155	
0743	Line		BA010		dk gray small open rectangle dash line
DNC		L		acc=2 AND slt<>6and<>8	coastline/shoreline - approximate; not mangrove or marsh
0751	Line	. LC			black solid line w/ tick terminators
DTOP		L	AQ040		bridge/overpass/viaduct
FFD UVM		L L	AQ040 AQ040		bridge/overpass/viaduct
VITD		L	AQ040		bridge/overpass/viaduct bridge/overpass/viaduct
VML0		L	AQ040		bridge/overpass/viaduct
VML1		L	AQ040		bridge/overpass/viaduct
VML2		L	AQ040		bridge/overpass/viaduct
0752	Line		C=LS(DASH,1,0 Y(WATTUR02)	CHGRD)+	gray very thin dash line w/ cntred waves
DNC		L	BD010		breakers
0753	Line		C=LS(SOLD,5,0 Y(BRIDGE01)	CHGRD)+	very thck gray line w/ cntrd magenta dbl cir
DNC		L	AQ040	bsc=12 OR bot=4or10or11	bridge/overpass/viaduct
0754	Line	LC	C(OPAREAASV	V)	UI vy dk blue vy thin line w/5 rows dots inside
TOD0		Α	FC031	mac=106	maritime area - ASW area
0755	Line	LC	C(OPAREAsub(OA)	UI vy dk blue vy thin line w/vert inward ticks
TOD0			FC031	mac=107	maritime area - submarine op area
0756	Line	LC	C(OPAREAstIsu	ıb)	feature brown vy thin line w/vert inward ticks
TOD0			FC031	mac=108	maritime area - submarine traffic lane submerged
0757	Line		C(OPAREAstIsu	ır)	feature brown vy thin line w/3 rows dots ins
TOD0			FC031	mac=109	maritime area - submarine traffic lane surface
0758	Line	10	C(OPAREAsfl)		feature brown 5 dot vy thin line
TOD0	Line		FC031	mac=110	maritime area - surface traffic lane
	Line		C(OPAREAalco		
0759 TOD0	Line		GA005	aua=0or20or36or998	green thin line w/stagrd dots inside air lanes/corridors

Produ	ıct	Delin	FCODE	A	Attribute Condition		Description
0760	Line	10	C(OPAREA	AADIZ))	magenta vy thin line w/ 3	row vert dots inside
TOD0	Liiio		GA005	,	aua=2	magonia vy imi mio m	airspace - air defense zone
	Lina					araan uu thin lina uu/2 rau	
0761	Line		C(OPAREA GA005			green vy thin line w/3 rov	
TOD0					aua=9or21or22or23or34or46or70		airspace - controlled
0762	Line		C(OPAREA	,		green thin line with ticks	inside
TOD0		Α	GA005	а	aua=13		airspace - flight information region
0763	Line	L(C(OPAREA	AUIR)		green thin line with open	tabs inside
TOD0		Α	GA005	а	aua=40		airspace - upper flight information region
0764	Line	LO	C(OPAREA	AAWAI	B)	magenta thin line w/ rt ar	ngle ticks inside
TOD0		Α	GA015	a	aul=0or5or6		special use airspace - warning area
0765	Line	L(C(OPAREA	AARAE	3)	magenta thin line w/ lft ai	ngle ticks inside
TOD0			GA015		aul=2or3	•	special use airspace - prohibited,restricted
0766	Line	1.0	C(HITSslop	ne)		purple very thin solid line	
TOD4	LITIC	L	FC180	. ,	ntc=507	purple very triin sond inte	hull integrity test site bottom feature - slope > 10 degrees
TOD4		A	FC180		ntc=507		hull integrity test site bottom feature - slope > 10 degrees
	Lino					nurnia brakan zia zaa lin	,
0767	Line	L	C(CBLSUE FC180	,	nto-500	purple broken zig-zag lind	•
TOD4 TOD4		A	FC180		ntc=509 ntc=509		hull integrity test site bottom feature - cable
					110-309	11 1 6111	hull integrity test site bottom feature - cable
0802	Area		C(CHGRD))		gray solid fill	
DNC		A	AN060				railroad yard/marshalling yard
DTOP		A A	AL105 po AL135 po				settlement
DTOP DTOP		A	AN060	ор			native settlement
FFD		A	AL105				railroad yard/marshaling yard settlement
FFD		Α	AL135				native settlement
FFD		Α	AN060				railroad yard/marshalling yard
UVM		Α	AL135				native settlement
UVM		Α	AN060				railroad yard/marshaling yard
UVM		Α	AQ150				flight of steps
VITD		Α	AN060				railroad yard/marshalling yard
VML0		Α	AL135				native settlement
VML1		Α	AL105				settlement
VML1		Α	AL135				native settlement
VML1		Α	AN060				railroad yard/marshalling yard
VML2		Α	AL105				settlement
VML2		Α	AL135				native settlement
VML2		Α	AN060				railroad yard/marshalling yard
0803	Area	A	C(DEPIT)			yellow green solid fill	
DNC		Α	AL200	lo	oc=22 AND vrr=8		ruins - offshore, covers and uncovers
DNC		Α	BA020				foreshore
DNC		A	BD020		rr=8 AND hdp=NULL		crib - covers and uncovers
DNC		A	BD100		vrr=8		pile/piling/post - covers and uncovers
DNC		A	BD120		/rr=8		reef - covers and uncovers
DNC		A	BD140		/rr=8		snags/stumps - covers and uncovers
DNC		A	BD180		rr=8 AND hdp=NULL		wreck - covers and uncovers; depth null
DNC		A	FC031		mac=2 AND hdp=0 AND isdm=1		maritime area - dredged channel, depth unknown, shallow mode on
DNC		A	FC031	n	mac=2 AND hdp=0 AND isdm=0		maritime area - dredged channel, depth unknown, shallow mode off
DTOP		A	BA020				foreshore
TOD1		A A	BE019		cvl=-32767		depth area - depth unknown
TOD2		А	BE019	C	cvl=-32767		depth area - depth unknown

Product	Delin	FCODE	Attribute Condition	Description
TOD4	Α	BE019	cvl=-32767	depth area - depth unknown
UVM	Α	BA020		foreshore
VITD	Α	SA050	gsc=1	slope polygon - 0 to >45%, dissected
VML1	Α	BA020		foreshore
VML2	Α	BA020		foreshore
0804 Area	a A	C(CHBRN)	brown solid fill	
DNC	Α	AD010		power plant
DNC	Α	AD030		substation/transformer yard
DNC	Α	AH010		bastion/rampart/fortification
DNC	Α	AH050		fortification
DNC	Α	AK040		athletic field
DNC	Α	AK160		stadium/amphitheater
DNC	Α	AL015		building
DNC	Α	AL020		built-up area
DNC	Α	AL030		cemetery
DNC	Α	AL200	loc=22 AND vrr=1	ruins - offshore, does not cover
DNC	Α	AL200	loc=8	ruins - on ground surface
DNC	Α	AM030		grain elevator
DNC	Α	AM070		tank
DNC	Α	AQ116		pumping station
DNC	Α	AT020		early warning radar site
DNC	Α	BB150		landing place
DNC	Α	BB170		offshore loading facility
DNC	Α	BD020	vrr=1 AND hdp=NULL	crib - above surface
DNC	Α	BD100	vrr=1	pile/piling/post - does not cover
DNC	A	BD140	vrr=1	snags/stumps - does not cover
DNC	A	BD180	vrr=1 AND hdp=NULL	wreck - does not cover; depth null
DNC	A	BI030		lock
DNC	A	GB055		runway
DTOP	A	AD010		power plant
DTOP	A A	AD030 AL030		substation/transformer yard
DTOP	A	AD010		cemetery
UVM UVM	A	AD010 AD030		power plant
UVM	A	AL030		substation/transformer yard
VML0	A	AA052		cemetery oil/gas field
VML1	A	AD010		-
VML2	Α	AD010		power plant power plant
VML2	A	AD030		substation/transformer yard
VML2	A	AL030		cemetery
0805 Area		C(DEPDW)	depth white fill	controlly
DNC	Α Α	BA040		water (except inland)
DNC	Α	BE010	idsm=0 AND cvl>=msdcand<>99999	depth area (very deep); 4 shades
DNC	Α	BE010	idsm=1 AND cvl>=ssdcand<>99999	depth area (deep water); 2 shades
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>=msdc	maritime area - dredged channel, 4 shades, deep water
DNC	Α	FC031	mac=2 AND idsm=1 AND hdp>=ssdc	maritime area - dredged channel, 2 shades, deep water
TOD1	Α	BE019	cvl>=200	depth area - depth greater than 200m
TOD2	Α	BE019	cvl>=200	depth area - depth greater than 200m
TOD4	Α	BE019	cvl>=123	depth area - depth greater than 123m
WVS	Α	BA040		water (except inland)
0810 Area	a A	C(DEPVS)	depth med blue solid fill	
DNC	Α	AL200	loc=22 AND vrr=4 AND hdp=0	ruins - offshore, submerged - depth unknown
DNC	Α	BC080		perches/stakes

Product	Delin	FCODE	Attribute Condition	Description
DNC	Α	BD000	hdp=0	underwater danger/hazard - depth unknown
DNC	Α	BD020	vrr=4 AND hdp=0	crib - submerged; depth unknown
DNC	Α	BD030	·	discolored water
DNC	Α	BD100	vrr=4	pile/piling/post - submerged
DNC	Α	BD120	vrr<>8 AND hdp=0orNULL	reef - not covers and uncovers, depth unknown or null
DNC	Α	BD140	vrr=4	snags/stumps - submerged
DNC	Α	BD180	vrr=0or2 AND hdp=NULL	wreck - unknown; awash; depth null
DNC	Α	BD180	vrr=4 AND hdp=0	wreck - submerged; depth unknown
DNC	Α	BE010	idsm=1 AND isdm=0 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode off</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode off
DNC	Α	BE010	idsm=1 AND isdm=1 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode on</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode on
DNC	Α	BE010	idsm=0 AND isdm=1 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode on</td></mssc<>	depth area (very shallow); 4 shades; shallow mode on
DNC	Α	BE010	idsm=0 AND isdm=0 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode off</td></mssc<>	depth area (very shallow); 4 shades; shallow mode off
DNC	Α	BH020		canal
DNC	Α	BH080		lake/pond
DNC	Α	BH130		reservoir
DNC	Α	BH140		river/stream
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
DNC	Α	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
DNC	Α	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
DTOP	Α	BD100		pile/piling/post
DTOP	Α	BI030		lock
FFD	Α	BI030		lock
TOD1	Α	BE019	cvl>=0and<200	depth area - depth less than 200m
TOD2	Α	BE019	cvl>=0and<200	depth area - depth less than 200m
TOD4	Α	BE019	cvl>=0and<123	depth area - depth less than 123m
UVM	Α	BI030		lock
VML2	Α	BD100		pile/piling/post
VML2	Α	BI030		lock
0820 Area	a A	C(DEPMD)	depth pale blue solid fill	
DNC	Α	BE010	idsm=0 AND cvl>=ssdcand <msdc< td=""><td>depth area (medium deep); 4 shades</td></msdc<>	depth area (medium deep); 4 shades
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
TOD1	Α	BE030		track swath
TOD2	Α	BE030		track swath
WVS	Α	BE019		depth area
0821 Area	a A	C(DEPMS)	depth It blue solid fill	
DNC	Α	BE010	idsm=0 AND isdm=0 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode of</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode of
DNC	Α	BE010	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode on</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode on
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
DNC	Α	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
DTOP	Α	BA040		water (except inland)
DTOP	Α	BH030 sdr	cda=2	ditch - covered
DTOP	Α	BH030 sdr	cda<>2	ditch - not covered
DTOP	Α	BH030 ⇔sdr		ditch
FFD	Α	BA040		water (except inland)
FFD	Α	BH030		ditch
UVM	Α	BA040		water (except inland)
UVM	Α	BH030		ditch

Produ	ct	Delin	FCODE	Attribute Condition		Description
VML0		Α	BA040			water (except inland)
VML1		Α	BA040			water (except inland)
VML2		Α	BA040			water (except inland)
VML2		Α	BH030			ditch
0822	Area	Α	C(LANDA)		It brown solid fill	
DNC		Α	AK090			fairgrounds
DNC		Α	BA030			island
DNC		Α	BB090			drydock
DNC		Α	BJ110			tundra
DNC		Α	DA010			ground surface element
DNC		Α	GB005			airport/airfield
DTOP		Α	AB000			disposal site/waste pile
DTOP		Α	AB010			wrecking yard/scrap yard
DTOP		Α	BA030			island
DTOP		A	EC030	veg=52		trees - clearing
FFD		A	BA030			island
UVM		A	AB000			disposal site/waste pile
UVM		A	AB010			wrecking yard/scrap yard
UVM		A	BA030			island
VITD		A	EC030	veg=52		trees - forest clearing
VML1		A	AB000			disposal site/waste pile
VML1		A	BA030			island
VML2		A A	AB000 BA030			disposal site/waste pile
VML2						island
	Area		C(NODTA)	. 1.00000	no data gray solid fill	death and death along
DNC		A A	BE010 BJ030	cvl=99999		depth area; depth unknown
DNC DNC		A	BJ065			glacier ice shelf
DNC		A	BJ100			snow field/ice field
DNC		Α	FC021	mac=26		maritime limit boundary - unsurveyed
	۸			11100-20	Avadeia IA was a salid fill	
0824 DNC	Area	A	C(TRFCF,3) FC041	ton=2	traffic It magenta solid fill	
				tsp=3		traffic separation scheme (TSS) - separation zone area
	Area		C(purple21)		21% purple solid fill	
TOD4		Α	FC180	htc<>503and<>507and<>509		hull integrity test site bottom feature - hght not >2m,not slope>10 deg, not cable
0826	Area	Α	C(purple42)		42% purple solid fill	
TOD4		Α	FC180	htc=503		hull integrity test site bottom feature - height > 2m
0902	Point	S	Y(ACHARE51)		It magenta anchor	
DNC		Α	BB010	mac<>12	•	anchorage - not anchoring berth
DTOP		Α	BB010			anchorage
VML2		Α	BB010			anchorage
	Area	Δ	P(MARCUL02)		gray fish in net patt fill	
DNC	/ II Cu	Α ,.	BB180		gray non in not patt iii	oyster bed/mussel bed
DNC		Α	BH050			fish hatchery/fish farm/marine farm
DNC		Α	FC021	mac=57		maritime limit boundary - marine farm
	Area		.P(MARSHES1)		brown marsh patt fill	, and a second of the second o
	Area	A	BH095		brown marsh pall iiii	march/ewamp
DNC					double as III	marsh/swamp
	Area	A			depth med blue grid patt	
DNC		A	BH155			salt evaporator
DTOP		A	BH155			salt evaporator
FFD		A	BH155			salt evaporator
UVM		Α	BH150			salt pan

Produ	uct	Delin	FCODE	Attribute Condition		Description
UVM		Α	BH155			salt evaporator
VML0		Α	BH155			salt evaporator
VML1		Α	BH150			salt pan
VML1		Α	BH155			salt evaporator
VML2		Α	BH150			salt pan
VML2		Α	BH155			salt evaporator
0912	Area	Α	P(ICEARE04)	g	ray random line patt fill	
DNC		Α	BJ030			glacier
DNC		Α	BJ065			ice shelf
DNC		Α	BJ100			snow field/ice field
0913	Area	Α	P	fe	eature brown solid filled	circle patt fill
DNC		Α	DB090			embankment/fill
DNC		Α	DB170			sand dune/sand hills
0914	Area	А	Р	fe	eature brown cirs patt fill	
DNC		Α	EA030			nursery
0915	Area	А	P(VEGATN03)	fe	eature brown tree side-v	iew patt fill
DNC	71100	Α,	EA040	,	salare brown tree dide v	orchard/plantation
DNC		Α	EA050			vineyards
DNC		Α	EC030	veg<>19		trees - not mangrove
	Aroo				actura brown manarova	
0916 DNC	Area	A	P(VEGATN04) EC030		eature brown mangrove	•
				veg=19		trees - mangrove
0917	Area		P(TSSJCT02)		raffic It magenta rt diag li	,
DNC		A	FC021	mac=42		maritime limit boundary - precautionary
DNC		A	FC031	mac=40		maritime area - roundabout zone (TSS)
DNC		Α	FC041	tsp=6or7		traffic separation scheme (TSS) - inbound or outbound area
0919	Area	А	P(DRGARE01)	g	ray diag spaced dot pat	t fill
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=mss isdm=1	scand <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0and	I <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>=ssd	c	maritime area - dredged channel, 2 shades, deep water
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and	I <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0and	I <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=mss isdm=0	scand <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=msd	dc	maritime area - dredged channel, 4 shades, deep water
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=1		maritime area - dredged channel, depth unknown, shallow mode on
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=0		maritime area - dredged channel, depth unknown, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and	I <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=ssd	cand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
0932	Area	А	P(AIRARE02)	fe	eature brown airplane pa	
DNC		Α	GB005			airport/airfield
0933	Area	А	P(NODATA03)	q	ray offset dash patt fill	
DNC		Α	FC021	mac=26		maritime limit boundary - unsurveyed
0934	Area	Δ	P(PRTSUR01)	n	ray dash wide patt fill	
DNC	, 00	Α	BE010	cvl=99999	, addi. iiido patt iii	depth area; depth unknown
5,10		-	-			

Produ	uct	Delin	FCODE	Attribute Condition	Description
0949	Area	А	P(DIAMOND1)	depth gray diamond patt	fill
DNC		Α	BA020	isdm=1	foreshore - shallow display mode on
DNC		Α	BD120	vrr=8 AND isdm=1	reef - covers and uncovers, shallow display mode on
DNC		Α	BE010	idsm=0 AND isdm=1 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode on</td></mssc<>	depth area (very shallow); 4 shades; shallow mode on
DNC		Α	BE010	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode or</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode or
DNC		Α	BE010	idsm=1 AND isdm=1 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode on</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode on
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
1001	Point	t S	Υ	red filled square black ou	utline
DTOP		Р	AL015	bfc=2or3or5or8or12or13or14or28or31or35or37or61or66or77 or96	building - generic
UVM		Р	AL015	bfc=2or3or5or8or12or13or14or28or31or35or37or38or52or61 or62or64or65or66or67or77or78or79or80or96or101or119or1 21or123or723	building - government
VML1		Р	AL015	bfc=2or3or5or12or13or14	building - government
VML2		Р	AL015	bfc=2or3or5or8or12or13or14or28or31or35or37or61or66or77 or96	building - government
1002	Point	t S	Υ	black filled cir w/ white ci	ross inside
DTOP		Р	AL015	bfc=6	building - hospital
UVM		Р	AL015	bfc=6or100	building - hospital
VML2		Р	AL015	bfc=6	building - hospital
1003	Point	t S	Υ	black cross	
DTOP		Р	AL030		cemetery
UVM		Р	AL030		cemetery
VML2		Р	AL030		cemetery
	Doing			block panail abana ayyab	
1004	Point			black pencil shape symb	
UVM		Р	AL120		missile site
1005	Point	t S	Υ	black F inside boat	
DTOP		Р	AQ070		ferry crossing
FFD		Р	AQ070		ferry crossing
UVM		Р	AQ070		ferry crossing
VITD		Р	AQ070		ferry crossing
VML0		Р	AQ070		ferry crossing
VML1		Р	AQ070		ferry crossing
VML2		Р	AQ070		ferry crossing
1006	Point	t S	Υ	basic blue line w/ arrow	
UVM		Р	BG010		current flow
1007	Point	t S	Υ	basic blue cir	
UVM		Р	BH010		aqueduct
VML1		Р	BH010		aqueduct
VML2		Р	BH010		aqueduct
1008	Point	t S	Υ	basic blue filled cir w/ tai	l below
DTOP		Р	BH170		spring/water-hole
UVM		Р	BH170		spring/water-hole
VML0		Р	BH170		spring/water-hole
VML1		Р	BH170		spring/water-hole
VML2		Р	BH170		spring/water-hole
					· -

Produ	ct I	Delin	FCODE	Attribute Condition		Description
1009	Point	S	Y		basic blue filled diamond	
DTOP		Р	BH180			waterfall
VML0		Р	BH180			waterfall
VML1		Р	BH180			waterfall
VML2		Р	BH180			waterfall
1010	Point	S	Y		basic blue solid square	
DTOP		Р	BI010			cistern
UVM		Р	BI010			cistern
VML1		Р	BI010			cistern
VML2		Р	BI010			cistern
1011	Point	S	Y		black sm filled cir beside	+-
DTOP		Р	CA030	ela<>1		spot elevation - not accurate
FFD		Р	CA030	ela<>1		spot elevation - not accurate
UVM		Р	CA030	ela<>1		spot elevation - not accurate
VML0		Р	CA030	ela<>1		spot elevation - not accurate
VML1		Р	CA030	ela<>1		spot elevation - not accurate
VML2		Р	CA030	ela<>1		spot elevation - not accurate
1012	Point	S	Υ		aero blue solid filled star	
DTOP		Р	GB010			airport lighting
UVM		Р	GB010			airport lighting
VML1		Р	GB010			airport lighting
VML2		Р	GB010			airport lighting
1013	Point	S	Y		black "H" inside black sq	uare
DTOP		Р	GB030			helicopter landing pad
UVM		Р	GB030			helicopter landing pad
1171	Point	S	Y		black opposing open equ	ui triangles
DTOP		Р	AQ111			prepared raft or float bridge site
VITD		Р	AQ058	wd1=40		constriction/expansion
VITD		Р	AQ111			prepared raft or float bridge site
1172	Point	S	Y		black diamond w/ curve s	staffed arrow
DTOP		Р	AQ118			sharp curve(s)
VITD		Р	AQ118			sharp curve(s)
1202	Point	S	Y(BUISGL01)		feature brown filled squa	re w/ brown outln
UVM		Р	AL015	bfc=1or21or22or23or24or25or26or71or72or73or74or75or76	27or29or30or40or54or59c	building - generic (industry)
UVM		Р	AL015	bfc=81or83or84or85or86or89or90c 2or113or116or120or124or125	or94or102or104or110or11	building - generic (industry)
1205	Point	S	Y		brown vert line w/ horizoi	ntal ticks on rt side
DTOP		Р	AL075			gallery
1206	Point	S'	Υ		black line w/ indented red	ctangle
DTOP		Р	AL155			overhead obstruction location
1211	Point	S	Y		black two rt pointing trian	ngles
DTOP		Р	AQ120		and on the repending and	steep grade
	Point		Y(RCTLPT52)		traffic magenta dashed o	
	i Ollit		FC165	dof<>0	trame mayema dasned 0	
		Г	1 (103	uui~/u		route (maritime) - direction known
DNC						
DNC 1233	Point	S			black horiz line below tria	•
DNC	Point		Y BF010	mcc=0 AND psc=0	black horiz line below tria	angle w/ B inside bottom characteristics - surface unknown
DNC 1233 DNC	Point Point	S` P		mcc=0 AND psc=0	black horiz line below tria	

Produ	ıct	Delin	FCODE	Attribute Condition		Description
1238	Point	S	Y(DWRTPT51)	+ SY(TSLDEF51)	traffic It mag DW filled ar	row btwn 2 mgnta ?
DNC		Α	FC165	rtt=4		route (maritime) - deep water
1251	Point	· S	Y(SOUND*C2)		sounding gray circle	
DNC	1 OIII	P	BE020	acc<>1	souriaing gray circle	sounding or drying height - circle (light) indicating low accuracy
TOD1		Р	BE020	acc<>1		sounding - circle (light) indicating low accuracy
TOD2		Р	BE020	acc<>1		sounding - circle (light) indicating low accuracy
TOD4		Р	BE020	acc<>1		sounding - circle (light) indicating low accuracy
1256	Point	S	Y(SOUNDSA1)		sounding black overbar	
DNC		Р	BE020	hdh>=0 AND hdp=NULL	•	drying height overbar (dark)
1301	Line	L	C		black line w/ squares	
DTOP	0	L	AL060		water in equal co	dragon teeth
DTOP		Α	AL060			dragon teeth
VITD		L	AL060			dragon teeth
VITD		A	AL060			dragon teeth
VML2		L	AL060			dragon teeth
VML2		A	AL060			dragon teeth
	Lina				basis blue thin deeb line	
1303	Line	L(Local AND consider	basic blue thin dash line	
UVM		L	AQ113	loc=4 AND pro=116		pipeline/pipe - undergound; water
VML1		L	AQ113	loc=4 AND pro=116		pipeline/pipe - undergound; water
VML2		L	AQ113	loc=4 AND pro=116		pipeline/pipe - undergound; water
1304	Line	L	C		basic blue thin dash line	w/ dot
DTOP		L	AQ113	pro=116		pipeline/pipe - water
UVM		L	AQ113	loc<>4 AND pro=116		pipeline/pipe - on or above ground; water
VML1		L	AQ113	loc<>4 AND pro=116		pipeline/pipe - on or above ground; water
VML2		L	AQ113	loc<>4 AND pro=116		pipeline/pipe - on or above ground; water
1305	Line	L	С		brown dash thin line w/ o	lot
DTOP		L	AQ113	pro<>116		pipeline/pipe - not water
UVM		L	AQ113	loc<>4 AND pro<>116		pipeline/pipe - on or above ground; not water
VITD		L	AQ113	·		pipeline/pipe
VML0		L	AQ113	loc=8		pipeline/pipe - on ground
VML1		L	AQ113	loc<>4 AND pro<>116		pipeline/pipe - on or above ground; not water
VML2		L	AQ113	loc<>4 AND pro<>116		pipeline/pipe - on or above ground; not water
1306	Line	1 (S(DASH,1,med-		red brown very very thin	
UVM	LIIIC	L	CA010	mcc<>103 AND hqc=3	Tea brown very very timi	contour line (land) - supplementary 1/2
VML0		L	CA010	hqc=4or13or20or21		contour line (land) - supplementary approx., carrying, form lines
VML2		L	CA010	mcc<>103 AND hqc=3or4or13		contour line (land) - supplementary 1/2, approx, form lines
1307	Line	L	С		red brown vy thin line w/	ticks on inside
FFD		L	CA010	hqc=5	•	contour line (land) - depression
UVM		L	CA010	mcc<>103 AND hgc=5		contour line (land) - depression index
VML2		L	CA010	mcc<>103 AND hqc=5or8		contour line (land) - depression mound
1308	Line	L	n.	·	black very thin line w/ tick	ks.
DTOP	LIIIC	L	DB070		black very timi mie w to	cut
DTOP		L	DB080			depression
UVM		L	DB070			cut
VITD		L	DB070 DB070			
		L	DB070 DB080			cut
VML0		L	DB080 DB070			depression
VML1		L	DB070 DB070			cut
VML2		L	ווּאַטע			cut

Product	Delin	FCODE	Attribute Condition		Description
1309 Line	: L	С		black double lines w/ tick	s pointing out
DTOP	L	DB090			embankment/fill
UVM	L	DB090			embankment/fill
VITD	L	DB090			embankment/fill
VML0	L	DB090			embankment/fill
VML1	L	DB090			embankment/fill
VML2	L	DB090			embankment/fill
1310 Line	e L	С		black one long dash two	short dash line
DNC	L	FA000	use=23		administrative boundary - international
DNC	L	FA060			defacto boundary
DTOP	L	FA000	use=23		administrative boundary - international
DTOP	L	FA060			defacto boundary
FFD	L	FA000	use=23		administrative boundary - international
UVM	L	FA000	use=23		administrative boundary - international
VML0	L	FA000	use=23		administrative boundary - international
VML0	L	FA060			defacto boundary
VML1	L	FA000	use=4or23		administrative boundary - international
VML1	L	FA060	10120		defacto boundary
VML2	L	FA000	use=23		administrative boundary - international
VML2	L	FA060	u30-20		defacto boundary
WVS	L	FA000 coc	use=4or23		administrative boundary - national, international
WVS	L	FA060	use=40123		defacto boundary
				blook long dock short do	
1311 Line		FA000		black long dash short da	
DTOP	L	FA000	use=0or26		administrative boundary - primary, unknown
FFD	L _.		use=0or26		administrative boundary - primary, unknown
UVM	L	FA000	use=0or26or999		administrative boundary - primary, unknown, other
VML0	L	FA000	use=26		administrative boundary - primary
VML1	L	FA000	use=0or26		administrative boundary - primary, unknown
VML2	L	FA000	use=0or26		administrative boundary - primary, unknown
WVS	L	FA000 coc	use=0or26		administrative boundary - primary, unknown
1312 Line	: L	FA000	use=16	black very thin sht dash	very sht dash line administrative boundary - city
			use=10		administrative boundary - City
1313 Line	: L	GB050		purple line w/ squares	and the state of t
UVM					revetment (airfield)
1314 Line	: L	S(SOLD,1,CH	,	black very thin solid line	
DTOP	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
DTOP	L	AP030	rst=2 AND wtc=2		road - loose surface, fair/dry/winter
FFD	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
FFD	L	AP030	rst=2 AND wtc=2		road - loose surface, fair/dry/winter
UVM	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
UVM	L	AP030	rst=2or3 AND wtc=2or3or4		road - loose surface, fair/dry/winter
VITD	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
VITD	L	AP030	rst=2 AND wtc=2		road - loose surface, fair/dry/winter
VML1	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
VML1	L	AP030	rst=2or3 AND wtc=2or3		road - loose surface, fair/dry/winter
VML2	L	AP030	rst=2or3 AND wtc=2or3		road - loose surface, fair/dry/winter
VML2	L	AP030	rst=0 OR wtc=0		road - unknown surface and weatherability
1315 Line				red brown double solid th	
DTOP	L	AP030	wtc=1 AND exs=28 AND med=1	AND rst=1	road - operational, hard surface, national/state
FFD	L	AP030	wtc=1 AND exs=28 AND med=1	AND rst=1	road - operational, hard surface, national/state
UVM	L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	AND med=1 AND rst=1	road - operational, hard surface, national/state
VITD	L	AP030	wtc=1 AND exs=1 AND fco=5or6	AND rst=1	road - operational, hard surface, national/state

Produ	ıct	Delin	FCODE	•	Attribute Condition		Description
VML0		L	AP030		exs=28 AND med=1		road - operational, with median
VML1 VML2		L L	AP030 AP030		wtc=1 AND exs=28 AND ltn>=2 Al wtc=1 AND exs=28 AND ltn>=2 Al		road - operational, hard surface, national/state road - operational, hard surface, national/state
1316	Line			3 med-		red brown single lines	Toda Sporational, Hard Salidado, Hattorian State
UVM	LIIIC	L	AP030	,o,mcu-	wtc=1 AND exs=28 AND ltn>=2 Al	•	road - operational, hard surface, interstate/international
VML1		L	AP030		wtc=1 AND exs=28 AND ltn>=2 Al		road - operational, hard surface, interstate/international
VML2		L	AP030		wtc=1 AND exs=28 AND ltn>=2 Al		road - operational, hard surface, interstate/international
1317	Line	L	2			red brown double dash th	nin lines
DTOP		L	AP030		wtc=1 AND exs<>28 AND med=1		road - non-operational, hard surface, national/state
FFD		L	AP030		wtc=1 AND exs<>28 AND med=1	AND rst=1	road - non-operational, hard surface, national/state
UVM		L	AP030		wtc=1 AND exs<>28 AND ltn>=2 A	AND med=1 AND rst=1	road - non-operational, hard surface, national/state
VITD		L	AP030		wtc=1 AND exs<>1 AND fco=5or6	AND rst=1	road - non-operational, hard surface, national/state
VML0		L	AP030		exs<>28 AND med=1		road - non-operational, with median
VML1		L	AP030		wtc=1 AND exs<>28 AND ltn>=2 A	AND med=1 AND rst=1	road - non-operational, hard surface, national/state
VML2		L	AP030		wtc=1 AND exs<>28 AND ltn>=2 A	AND med=1 AND rst=1	road - non-operational, hard surface, national/state
1318	Line	L	3			black thin long dsh 2 shrt	dsh line
VML1		L	FA000		use=30		administrative boundary - secondary
WVS		L	FA000	coc	use=30		administrative boundary - secondary
1319	Line	L	C			black thin long dash 3 do	t line
VML1		L	FA000		use=31		administrative boundary - tertiary
WVS		L	FA000	coc	use=31		administrative boundary - tertiary
1401	Line	L	С			black outline open line w	∕rt diag fill
DTOP		L	AL075				gallery
1403	Line	L	С			black line w/ open diamoi	nds
DTOP		L	DB145			·	miscellaneous obstacle
1406	Line	LS	S(SOLD	,2,CHBI	RN)	brown thin solid line	
DTOP		L	AL015		bfc=15		building - school
DTOP		Α	BJ020				moraine
UVM		L	AL015		bfc=15or60or108		building - school
VITD		L	DB200				gully/gorge
VITD		Α	DB200				gully/gorge
VML1		Α	BJ020				moraine
VML2		L	AL015		bfc=15		building - school
VML2		Α	BJ020				moraine
1408	Line	L				basic green vy thin long o	dash short dash line
WVS		L	FA000	mab			administrative boundary
1451	Line	L	0			purple dash line w/ tics be	oth sides (- + -)
FFD		L	FC021		mbl=9		maritime limit boundary - international (at sea)
WVS		L	FC021		mbl=9		maritime limit boundary - international (at sea)
1506	Line	L	3			basic blue jagged vy thin	line
VML1		Α	BH190				lagoon/reef pool
1509	Line	L	3			black thin solid line ticks	on inside
VITD		Α	DB080				depression
1511	Line	L	0			brown thin line outward ti	icks
UVM		Α	BH077				hummock
VML0		Α	BH077				hummock
VML2		Α	BH077				hummock
1512	Line	L	0			magenta vy thin line doul	ble ticks
UVM		Α	GB050			J ,	revetment (airfield)
							,

11000	ıct	Delin	FCODE	Attribute Condition		Description
1513	Line	L			magenta jagged line	
UVM		Α	AT020			early warning radar site
UVM		Α	AT045			radar transmitter
1516	Line	LO	C		black thin line outward tid	cks
UVM	0	A	DB090			embankment/fill
VML2		Α	DB090			embankment/fill
	Lino	LO			brown thin dash line	
1571 DTOP	Line	L	AP030	wtc=1 AND exs<>28 AND med<>		road non-energianal lease curfees
FFD		L	AP030 AP030	wtc=1 AND exs<>28 AND med<>		road - non-operational, loose surface
UVM		L	AP030	wtc=1 AND exs<>28 AND ltn<2 Al		road - non-operational, loose surface road - non-operational, loose surface
VITD		L	AP030	wtc=1 AND exs<>1 AND fco<>5ar		road - non-operational, loose surface
VML1		L	AP030	wtc=1 AND exs<>28 AND ltn<2 Al		road - non-operational, loose surface
VML2		L	AP030	wtc=1 AND exs<>28 AND ltn<2 Al		road - non-operational, loose surface
				WICE I / HVD CX3 4 ZO / HVD IIII 42 / H		
1572	Line	L(_		black thin solid dbl lines	
UVM		L	AQ065			culvert
UVM		Α	AQ040			bridge/overpass/viaduct
1573	Line	LS	S(SOLD,1,CS)	ΓLN)	dk gray very thin solid lin	ne e
DNC		L	BA010	acc=1 AND slt<>6and<>8		coastline/shoreline - accurate; not mangrove or marsh
DNC		Α	BB090			drydock
WVS		L	BA010			coastline/shoreline
1601	Area	A	C(CHRED)		red solid fill	
DTOP		Α	SA050	spr=7		slope polygon - > 60% and <= 85%
UVM		Α	AL015	bfc=2or3or5or8or28or52or121		building - government
1602	Area	A	C(LITYW)		lights yellow solid fill	
UVM		Α	AP020		•	interchange
1605	Area	Α	Р		yellow-green tree-top pat	tt fill
DTOP		Α	BH095	veg=24	, , ,	marsh/swamp - deciduous
DTOP		Α	EC030	veg=0or24		trees - deciduous, unknown
FFD		Α	EC030	tre=0or1		trees - deciduous, unknown
UVM		Α	EC020	1040		
• • • • • • • • • • • • • • • • • • • •		А	EC030	tre=0or1or3		trees - deciduous, mixed, unknown
VITD		A	EC030 EC030	veg=0or24or50		trees - deciduous, mixed, unknown trees - unknown, deciduous, mixed
VITD		Α	EC030	veg=0or24or50		trees - unknown, deciduous, mixed
VITD VML0		A A	EC030 EC030	veg=0or24or50 veg=0or24or50or999		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other
VITD VML0 VML1 VML2	Area	A A A	EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999	vellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other
VITD VML0 VML1	Area	A A A	EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999	yellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other e patt fill
VITD VML0 VML1 VML2 1606	Area	A A A	EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999	yellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other e patt fill marsh/swamp - evergreen, mixed
VITD VML0 VML1 VML2 1606 DTOP	Area	A A A A	EC030 EC030 EC030 EC030 P BH095	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999	yellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other e patt fill marsh/swamp - evergreen, mixed trees - evergreen, mixed
VITD VML0 VML1 VML2 1606 DTOP DTOP	Area	A A A A	EC030 EC030 EC030 EC030 P BH095 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50	yellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other trees - unknown, deciduous, mixed, other e patt fill marsh/swamp - evergreen, mixed
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD	Area	A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3	yellow-green triangle tree	trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM	Area	A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD	Area	A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, eucalyptus,
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD VML0	Area	A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25 veg=11or12or17or18or25or29or38		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD VML0 VML1	Area	A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25 veg=11or12or17or18or25or29or38 veg=11or12or17or18or25or29or38		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD VML0 VML1 VML2		A A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25 veg=11or12or17or18or25or29or38 veg=11or12or17or18or25or29or38		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD VML0 VML1 VML2		A A A A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030 EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25 veg=11or12or17or18or25or29or38 veg=11or12or17or18or25or29or38		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress
VITD VML0 VML1 VML2 1606 DTOP DTOP FFD UVM VITD VML0 VML1 VML2		A A A A A A A A A A A A A A A A A A A	EC030 EC030 EC030 EC030 P BH095 EC030 EC030 EC030 EC030 EC030 EC030 EC030 EC030 EC030	veg=0or24or50 veg=0or24or50or999 veg=0or24or50or999 veg=0or24or50or999 veg=25or50 veg=25or50 tre=2or3 tre=2 veg=25 veg=11or12or17or18or25or29or38 veg=11or12or17or18or25or29or38		trees - unknown, deciduous, mixed trees - unknown, deciduous, mixed, other trees - evergreen, mixed trees - evergreen, mixed trees - evergreen, mixed trees - evergreen trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress

Produ	ıct	Delin	FCODI	E	Attribute Condition	Desc	ription
1609	Area	A	Р			basic blue diag grid patt fill	
UVM		Α	BH075			founta	in
1610	Area	Α	Р			red left diag line patt fill	
DTOP	7 11 00	Α	AQ135			,	e stopping area/rest area
DTOP		Α	AQ140				e storage/parking area
UVM		Α	AQ140				e storage/parking area
VML2		Α	AQ135				e stopping area/rest area
VML2		Α	AQ140				e storage/parking area
1611	Area	A	Р			basic blue dot patt fill	
DTOP	7 11 00	Α	BH080	sdr	hyc<>8	•	ond - not perennial
FFD		Α	BH080		hyc=3		ond - dry
UVM		Α	BH080		hyc=3or6		ond - dry, intermittent
VML1		Α	BH080		hyc=3or6		ond - dry, intermittent
VML2		Α	BH080		hyc=3or6		ond - dry, intermittent
1612	Area	A	P		•	magenta cross hatch patt fill	
UVM	71100	Α	GB030			,	pter landing pad
	Aroo	Α					ptor larraing pad
1613 DTOP	Area	A	BH095		vo=16or10	yellow-green nipa patt fill	/aurama nalm manaraya
VML0		A	EC030		veg=16or19		/swamp - palm, mangrove
VML1		A	EC030		veg=16or19 veg=16or19		nipa palm, mangrove nipa palm, mangrove
VML2		A	EC030		veg=16or19		nipa palm, mangrove
	Lina			LO TDE			Tilpa pailii, mailgiove
1651	Line		•	I,2,TRF	,	traffic It magenta thin dash line	Part handler
DNC		L	FC021		mac=48 AND mbl=NULL		ne limit boundary - pilot boarding
1655	Line		•	I,2,blue)		basic blue thin dash line	
DTOP		Α	BH080	sdr	hyc<>8	lake/po	ond - not perennial
DTOP		Α .	BH095		veg=16or19		/swamp - palm, mangrove
FFD		A	BH080		hyc=3		ond - dry
UVM		A	BH080		hyc=3or6		ond - dry, intermittent
VITD		A	SA040		40. 40	·	nent snowfield
VML0		A	EC030		veg=16or19		nipa palm, mangrove
VML1		A	BH080 EC030		hyc=3or6		ond - dry, intermittent
VML1		A A	BH080		veg=16or19		nipa palm, mangrove
VML2 VML2		A	EC030		hyc=3or6		ond - dry, intermittent
					veg=16or19		nipa palm, mangrove
1656	Line		•),1,blu10	,	100% cyan blue very thin solid	
DTOP		L	BH140		hyc=0or8		tream - perennial, unknown
DTOP		L	DB060 BH140	∽ade	mcc=103		e/crevasse - snow/ice
DTOP		A A	ВН140		h. (n=0 o r0	river/s	
DTOP FFD		L	BH140	Sui	hyc=0or8 hyc=0or8		tream - perennial, unknown
FFD		A	BH140		hyc=0or8		tream - perennial, unknown tream - perennial, unknown
UVM		L	BH140		hyc=0or8		tream - perennial, unknown
UVM		A	BH140		hyc=0or8		tream - perennial, unknown
VITD		L	BH140		hyc=0or8or14		tream - perennial, braided, unknownn
VITD		A	BH140		hyc=0or8or14		tream - perennial, braided, unknown
VML0		L	BH140		hyc=0or8		tream - perennial, unknown
VML1		L	BH140		hyc=0or8		tream - perennial, unknown
VML1		L	DB060		mcc=103		e/crevasse - snow/ice
VML1		Α	BH140		hyc=0or8	river/s	tream - perennial, unknown
VML2		L	BH140		hyc=0or8		tream - perennial, unknown
VML2		L	DB060		mcc=103		e/crevasse - snow/ice
VML2		Α	BH140		hyc=0or8	river/s	tream - perennial, unknown

Produ	ıct I	Delin	FCODE	Attribute Condition		Description
1851	Line	LS	S(S-DASH,2,me	ed-beige)	beige thin short dash line	
VITD			DA010	stp=5or6or7or8or9	•	ground surface element - sands
1855	Line	1.0	S(SOLD,2,med-	red-brown)	red brown thin solid line	
DTOP	LITIC	L	AP030	wtc=1 AND exs=28 AND med<>1		road - operational, hard, private/other
FFD		L	AP030	wtc=1 AND exs=28 AND med<>1		road - operational, hard surface, private/other
UVM		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN		road - operational, hard surface, private/other
VITD		L	AP030	wtc=1 AND exs=1 AND fco<>5an		road - operational, hard surface, private/other
VML0		L	AP030	exs=28 AND med<>1	a - 0744D 100 1	road - operational
VML1		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN	ID rst=1	road - operational, hard surface, private/other
VML2		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN		road - operational, hard surface, private/other
1901	Area	Δ	C(UIAFF)		ui It brown solid fill	,
DTOP	Alca	A	SA050	spr=2	ui it brown sond iiii	slope polygon - > 10% and <= 15%
TOD4		A	FC179	5p1-2		side scan sonar coverage
VITD		A	SA050	gsc=4		slope polygon - > 10% and <= 20%
	A			930-4	alla la alla a a a lla l Ell	Slope polygon - 10% and 4-20%
1902	Area		C(dark-beige)	2	dk beige solid fill	
DTOP		Α	SA050	spr=3		slope polygon - > 15% and <= 20%
1903	Area		C(med-rose)		rose solid fill	
DTOP		Α	SA050	spr=4		slope polygon - > 20% and <= 30%
VITD		Α	SA050	gsc=5		slope polygon - > 20% and <= 30%
1904	Area	A	C(ADINF)		golden yellow solid fill	
DTOP		Α	SA050	spr=5		slope polygon - > 30% and <= 45%
VITD		Α	SA050	gsc=6		slope polygon - > 30% and <= 45%
1905	Area	A	C(white)		basic white solid fill	
DTOP		Α	SA050	spr=999		slope polygon - % unknown
VITD		Α	SA050	gsc=0		slope polygon - % unknown
1906	Area	A	C(lite-red-brown	າ)	It red brown solid fill	
DTOP		Α	SA050	spr=8		slope polygon - > 85%
2001	Point	S	Y		black pick & hammer	
DTOP		Р	AA010		·	mine
DTOP		Р	AA012			quarry
DTOP		Α	AA010			mine
DTOP		Α	AA012			quarry
UVM		Р	AA010			mine
UVM		Р	AA012			quarry
UVM		Α	AA010			mine
UVM		Α _	AA012			quarry
VML0		P	AA010			mine/quarry
VML0		A	AA010			mine/quarry
VML1		P A	AA010 AA010			mine/quarry
VML1 VML2		A P	AA010 AA010			mine/quarry
VML2 VML2		A	AA010 AA010			mine/quarry mine/quarry
	Б : ,					mine/quarry
2002	Point	S` P			black tower	nin ta un a natau atu un
DTOP UVM		P P	AA040 AA040			rig/superstructure rig/superstructure
VML0		P	AA040 AA052			oil/gas field
VML0		, P	AC040			oil/gas facilities
VML1		Р	AA040			rig/superstructure
VML2		Р	AA040			rig/superstructure
2003	Point	S'			basic blue solid filled cir	
DTOP	· OIII	P	AA050	pro=116	Sadio Sido Solid Illied Cli	well - water
D101		•		p.0 110		

Produ	ıct I	Delin	FCODE	Attribute Condition		Description
UVM		Р	AA050	pro=116		well - water
VML1		Р	AA050	pro=116		well - water
VML2		Р	AA050	pro=116		well - water
2005	Point	S	Y		black building w/ 2 sm	okestacks above
DTOP		Р	AC000			processing plant/treatment plant
DTOP		Р	AC020			catalytic cracker
UVM		Р	AC020			catalytic cracker
VML0		Р	AC000			processing plant/treatment plant
VML1		Р	AC000			processing plant/treatment plant
VML2		Р	AC000			processing plant/treatment plant
VML2		Р	AC020			catalytic cracker
2009	Point	S	Y		black square w/ zap in	side
VML0		Р	AD010			power plant
VML1		Р	AD010			power plant
2010	Point	S	Y		black sun burst w/ dot	inside
DTOP		Р	AD020			solar panels
VML2		Р	AD020			solar panels
2011	Point	S	Υ		black filled square w/ z	van on ton
DTOP	1 Onit	Р	AD030		brack filled equale in 2	substation/transformer yard
UVM		P	AD030			substation/transformer yard
VML0		Р	AD030			substation/transformer yard
VML2		Р	AD030			substation/transformer yard
	Point	S	Y		black dot inside double	· ·
DTOP	1 Onit	Р	AF030		black act molac acable	cooling tower
UVM		P	AF030			cooling tower
VML1		Р	AF030			cooling tower
VML2		Р	AF030			cooling tower
2019	Point	S	Y		black sm filled cir	
DTOP		Р	AM070			tank
UVM		Р	AM070			tank
VML0		Р	AM070			tank
VML1		Р	AM070			tank
VML2		Р	AM070			tank
2026	Point	S	Y		black tent	
VML0		Р	AI030			camp
2029	Point	S	Y		black ferris wheel	
DTOP		Р	AK020			amusement park attraction
UVM		Р	AK020			amusement park attraction
VML1		Р	AK020			amusement park attraction
VML2		Р	AK020			amusement park attraction
2034	Point	s	Υ		black skier	
UVM		Р	AK150			ski jump
VML1		Р	AK150			ski jump
VML2		Р	AK150			ski jump
	Point	S	Y		black dot inside cir	
2035		Р	AK160			stadium/amphitheater
2035 VML0		г				
		Р	AK160			stadium/amphitheater
VML0 VML1	Point		AK160		black sm filled square	•

Produ	ıct	Delin	FCODE	Attribute Condition	Description
DTOP		Р	AL015	bfc=0or1or4or9or10or11or16or17or18or19or20or21or22or23 or24or25or26or27or29or30or33or36or53or59or69or70or83o 85or86or87or88or89	3 3 3
DTOP		Р	AL015	bfc=90or91or92or93or95or98or999	building - generic
UVM		Р	AL015	bfc=63or69or70or87or88or91or92or93or95or97or98or99or1 3or105or106or107or109or111or115or117or118or122or126o 127or128or999	
UVM		Р	AL015	bfc=0or4or9or10or11or16or17or18or19or20or33or34or36or3 9or51or53or55or56or57or58	B building - generic (population)
VML0		Р	AL015		building
VML0		Р	AN060		railroad yard/marshalling yard
VML1		Р	AL015	bfc=0or1or4or9or10or11or16or17or18or19or20or22or23or24 or27or83or999	building - generic
VML2		Р	AL015	bfc=0or1or4or9or10or11or16or17or18or19or20or21or22or23 or24or25or26or27or29or30or33or36	
VML2		Р	AL015	bfc=53or59or69or70or83or85or86or87or88or89or90or91or9. or93or95or98or999	2 building - generic
2038	Point			black dot w/ parallel lir	nes inside circle
UVM		Р	AP040		gate
UVM		Р	AQ090		entrance/exit
2042	Point	S	Υ	black filled square w/ t	flag on top
DTOP		Р	AL015	bfc=15	building - school
UVM		Р	AL015	bfc=15or60or108	building - school, college, seminary
VML1		Р	AL015	bfc=15	building - school
VML2		Р	AL015	bfc=15	building - school
2043	Point	S	Υ	black four black squar	es w/ connection
DTOP		Р	AH050		fortification
UVM		Р	AH010		bastion/rampart/fortification
UVM		Р	AH050		fortification
VML1		Р	AH050		fortification
VML2		Р	AH050		fortification
2044	Point	S	Υ	black lighthouse symb	ol
DTOP		Р	AL015	bfc=82	building - lighthouse
UVM		Р	AL015	bfc=82	building - lighthouse
UVM		Р	BC050		lighthouse
VML0		Р	BC050		lighthouse
VML1		Р	AL015	bfc=82	building - lighthouse
VML2		Р	AL015	bfc=82	building - lighthouse
2045	Point	S	Υ	black filled square w/ o	cross on top
DTOP		Р	AL015	bfc=7	building - house of worship
UVM		Р	AL015	bfc=7or114 AND hwt=0or2or3or4or7 OR bfc=50	building - house of worship
VML1		Р	AL015	bfc=7 AND hwt=0or2or3or4or7	building - house of worship
VML2		Р	AL015	bfc=7 AND hwt=0or2or3or4or7	building - house of worship
2047	Point	S	Υ	black filled square w/	T on top
UVM		Р	AL015	bfc=7or114 AND hwt=20	building - house of worship
VML1		Р	AL015	bfc=7 AND hwt=20	building - house of worship
VML2		Р	AL015	bfc=7 AND hwt=20	building - house of worship
2048	Point	S	Υ	black pinwheel	
UVM		Р	AL015	bfc=7or114 AND hwt=21	building - house of worship
VML1		Р	AL015	bfc=7 AND hwt=21	building - house of worship
VML2		Р	AL015	bfc=7 AND hwt=21	building - house of worship
2051	Point	S	Υ	black ramp symbol	
DTOP		Р	AL195	2.20	ramp
VITD		Р	AL195		ramp
				D 005	<u>'</u>

Produ	ct	Delin	FCODE	Attribute Condition	Description
2053	Point	S	Υ		black sm open square w/ dot in center
VML0		Р	AL020		built-up area
VML1		Р	AL020		built-up area
2058	Point	S	Υ		gray filled square
DTOP		Р	AL100		hut
UVM		Р	AL100		hut
VML1		Р	AL100		hut
VML2		Р	AL100		hut
2060	Point	S	Υ		black square w/ S inside
UVM		Р	AL135		native settlement
VML0		Р	AL105		settlement
VML0		Р	AL135		native settlement
VML2		Р	AL105		settlement
2063	Point	S	Υ		black monument symbol
DTOP		Р	AL130		monument
UVM		Р	AL130		monument
VML0		Р	AL130		monument
VML1		Р	AL130		monument
VML2		Р	AL130		monument
2070	Point	S'	Υ		black diag bands in rectangle
DTOP		Р	AL210		snow shed/rock shed
VML0		Р	AL210		snow shed/rock shed
VML1		Р	AL210		snow shed/rock shed
VML2		Р	AL210		snow shed/rock shed
2071	Point	S	Y		black dot inside cir
DTOP		Р	AL240		tower (non-communication)
UVM		Р	AL240		tower (non-communication)
VML0		Р	AL240		tower (non-communication)
VML1		P -	AL240		tower (non-communication)
VML2		Р	AL240		tower (non-communication)
2072	Point		Y		gray shadowed square
DTOP		Р	AL250		underground dwelling
UVM		P	AH060		underground bunker
UVM		P -	AL250		underground dwelling
VML2		Р	AL250		underground dwelling
2073	Point	S'	Υ		black square w/ diag line inside
UVM		Р	AM010		depot (storage)
VML0		Р	AM010		depot (storage)
2074	Point	S	Y		brown cir
DTOP		Р	AM020		grain bin/silo
UVM		Р	AM020		grain bin/silo
VML1		P -	AM020		grain bin/silo
VML2		Р	AM020		grain bin/silo
	Point				red brown filled semicircle
DTOP		P	AM060		storage bunker/storage mound
UVM		Р	AM060		storage bunker/storage mound
VML2		Р	AM060		storage bunker/storage mound
	Point				basic blue dot inside cir
DTOP		P	AM080		water tower
UVM		P -	AM080		water tower
VML0		Р	AM080		water tower

Produ	ıct	Delin	FCODE	Attribute Condition		Description
VML1		Р	AM080			water tower
VML2		Р	AM080			water tower
2080	Point	: S	Υ		black rt diag line inside c	ir
DTOP		Р	AN075			railroad turntable
VML2		Р	AN075			railroad turntable
2081	Point		Y(SAE0002)		black open square	
VML1	· Onic	. Р	AP020		black open equale	interchange
2083	Point	: S			black double line with fla	
DTOP	1 On it	. P	AQ040		black double lifte with ha	bridge/overpass/viaduct
DTOP		Р	AQ045			bridge span
FFD		Р	AQ040			bridge/overpass/viaduct
UVM		Р	AQ040			bridge/overpass/viaduct
VITD		Р	AQ040			bridge/overpass/viaduct
VITD		Р	AQ045			bridge span
VML0		Р	AQ040			bridge/overpass/viaduct
VML1		Р	AQ040			bridge/overpass/viaduct
VML2		Р	AQ040			bridge/overpass/viaduct
2087	Point	: S	Υ		black opposing solid trial	ngles pnting in
DTOP		Р	AQ058			constriction/expansion
DTOP		Р	BH070			ford
FFD		Р	BH070			ford
UVM		Р	BH070			ford
VITD		Р	AQ058	wd1<40		constriction/expansion
VITD		Р	BH070			ford
VML0		Р	BH070			ford
VML1		P P	BH070 BH070			ford
VML2						ford
2088	Point				purple dot inside cir	
DTOP UVM		P P	AQ060 AQ060			control tower
VML1		r P	AQ060 AQ060			control tower
VML2		Р	AQ060			control tower
	Doint				blook oir w/four outor tio	
2089 VML0	Point	. Э Р	AQ064		black cir w/ four outer tic	
						causeway
2090	Point				black cir w/ C inside	
DTOP		P P	AQ065			culvert
VML2			AQ065			culvert
2094	Point				purple solid ellipse exten	
DTOP		Р	AQ110			mooring mast
UVM		P P	AQ110 AQ110			mooring mast
VML1 VML2		r P	AQ110 AQ110			mooring mast mooring mast
	5 · ·					
2097	Point	: S			black sm square w/ P ins	
DTOP UVM		P P	AQ116 AQ116			pumping station
VML0		P	AQ116 AQ116			pumping station pumping station
VML1		r P	AQ116 AQ116			pumping station
VML2		Р	AQ116			pumping station
2099	Point				black dot inside cir inside	
UVM	· Unit	. Э Р	AQ125		DIGCK GOLINGIGE ON MISIO	station (miscellaneous)
OVIVI		•				otation (modellaneous)

Produ	ıct	Delin	FCODE	Attribute Condition	Description
2100	Point	S	Υ		black box w/ round top w/ "T" inside
DTOP		Р	AQ130		tunnel
FFD		Р	AQ130		tunnel
VITD		Р	AQ130		tunnel
VML0		Р	AQ130		tunnel
VML1		Р	AQ130		tunnel
VML2		Р	AQ130		tunnel
2101	Point	S	Υ		red brown octagon shape w/ "R" inside
VML1		Р	AQ135		vehicle stopping area/rest area
2102	Point	S	Y(DSHAER11)		black satellite dish symbol
DNC	· Omic	Р	AT010		disk/dish
DTOP		Р	AT010		disk/dish
UVM		Р	AT010		disk/dish
VML1		Р	AT010		disk/dish
VML2		Р	AT010		disk/dish
2104	Point	S	v		numle tower symbol
UVM	FUIII	P	AT040		purple tower symbol
					power transmission pylon
2105	Point				black cir around satellite dish symbol
UVM		P	AT020		early warning radar site
UVM		Р	AT045		radar transmitter
2106	Point	S			black filled square w/ outward ticks
DTOP		Р	AT050		communication building
UVM		Р	AT050		communication building
VML0		Р	AT050		communication building
VML2		Р	AT050		communication building
2107	Point	S	Y		black vert line w/ two horiz lines at top
UVM		Р	AT070		telephone-telegraph pylon/pole
2108	Point	S	Υ		black tower w/ sound waves at top
DTOP		Р	AT080		communication tower
UVM		Р	AT080		communication tower
VML0		Р	AT080		communication tower
VML1		Р	AT080		communication tower
VML2		Р	AT080		communication tower
2111	Point	S	Υ		brown filled cir
VML0		Р	BA030		island
2212	Point	S	Υ		black solid filled shipwreck symbol
DTOP		Р	BD180		wreck
VML0		Р	BD180		wreck
VML1		Р	BD180		wreck
VML2		Р	BD180		wreck
2231	Point	S	Υ		basic blue open diamond
DTOP		Р	BH120		rapids
VML0		Р	BH120		rapids
VML1		Р	BH120		rapids
VML2		Р	BH120		rapids
2232	Point		Υ		basic blue solid arrowhead
DTOP		Р	BH145		river stream vanishing point
VML1		Р	BH145		river stream vanishing point
VML2		Р	BH145		river stream vanishing point

Produ	ıct	Delin	FCODE	Attribute Condition	Description
2233	Point	: S'	Y		basic blue square w/ grid inside
VML0		Р	BH155		salt evaporator
2234	Point	: S'	′		basic blue cir diagly half filled
UVM	1 01110		BH165		spillway
	Doint		,		
2238	Point	: S` P	BI020		black vertical heavy weight line
DTOP FFD		P	BI020		dam/weir dam/weir
VITD		P	BI020		dam/weir
VML0		Р	BI020		dam/weir
VML1		Р	BI020		dam/weir
VML2			BI020		dam/weir
2239	Point	: S'	/		black open arrowhead
DTOP	1 Ont	Р	BI030		lock
FFD		Р	BI030		lock
VITD		P	BI030		lock
VML0		Р	BI030		lock
VML2		Р	BI030		lock
2242	Point	: S'	/		black 8 pt asterisk w/ open center
DTOP	1 On it	Р	BJ060		ice peak/nunatak
VML1		P	BJ060		ice peak/nunatak
VML2			BJ060		ice peak/nunatak
2243	Point				black sm filled cir
DTOP	FUIII	P	CA030	ela=1	spot elevation - accurate
FFD			CA030	ela=1	spot elevation - accurate
UVM		Р	CA030	ela=1	spot elevation - accurate
VML0		P	CA030	ela=1	spot elevation - accurate
VML1		Р	CA030	ela=1	spot elevation - accurate
VML2		Р	CA030	ela=1	spot elevation - accurate
2245	Point	: S'	Y		basic blue sm filled cir
VML0		Р	CA035		inland water elevation
2247	Point	: S	Y		black diag line w/ "L" on top
DTOP			DB030		cave
UVM		Р	DB030		cave
VML1		Р	DB030		cave
VML2		Р	DB030		cave
2248	Point	s'	Y		sm brown filled cir w/ tail below
DTOP		Р	DB115		geothermal feature
VML1		Р	DB115		geothermal feature
VML2		Р	DB115		geothermal feature
2249	Point	s'	ſ		black)(symbol
DTOP		Р	DB150		mountain pass
VML1		Р	DB150		mountain pass
VML2		Р	DB150		mountain pass
2250	Point	: S	Y		brown 6 pt asterisk w/ open center
DTOP		Р	DB160		rock strata/rock formation
VML1		Р	DB160		rock strata/rock formation
VML2		Р	DB160		rock strata/rock formation
2251	Point	: S'	Y		sm brown open cir w/ eight tics outside
DTOP		Р	DB180		volcano
VML2		Р	DB180		volcano

Produ	ıct	Delin	FCODE	Attribute Condition		Description
2252	Point	: S`	Y		green palm tree symbol	
DTOP		Р	EC020			oasis
VML1		Р	EC020			oasis
VML2		Р	EC020			oasis
2253	Point	: S`	Y		green triangle tree symb	ol
VML2		Р	EC030		green mangre are eyim	trees
2256	Point	: S'	V		black/white divided squa	re
VML0	1 Ont	P	FA001		biacio winte aiviaca squa	administrative area
	Daint					danimistrative area
2257 UVM	Point	: S` P	FA015		magenta square w/ F	firing range/gunnery range
						firing range/gunnery range
2264	Point				black cir	
DTOP		Р	BD100			pile/piling/post
VML2		Р	BD100			pile/piling/post
2267	Point				aero-blue airplane	
DTOP		P -	GB005	use<>8and<>22 AND exs=28		airport/airfield - non military; operational
FFD		Р	GB005	use<>8and<>22 AND exs=28		airport/airfield - civilian, operational
UVM		Р	GB005	use<>8and<>22 AND exs=28		airport/airfield - non military; operational
VML0		P P	GB005 GB005	use<>8and<>22		airport/airfield - non military
VML1 VML2		Р	GB005	use<>8and<>22 AND exs=28 use<>8and<>22 AND exs=28		airport/airfield - operational; non military
	D - : 4			use->oanu->22 AND exs-20	W	airport/airfield - operational; non military
2268	Point	S` P			It gray airplane	
DTOP FFD		P	GB005 GB005	exs<>28 exs<>28		airport/airfield - not operational
UVM		Р	GB005	exs<>28		airport/airfield - non-operational airport/airfield - not operational
VML1		Р	GB005 GB005	exs<>28		airport/airfield - not operational
VML2		Р	GB005	exs<>28		airport/airfield - not operational
2269	Point	: S`	Y		magenta airplane	
DTOP		Р	GB005	use=8or22 AND exs=28	,	airport/airfield - military; operational
FFD		Р	GB005	use=8or22 AND exs=28		airport/airfield - military, operational
UVM		Р	GB005	use=8or22 AND exs=28		airport/airfield - military; operational
VML0		Р	GB005	use=8or22		airport/airfield - military
VML1		Р	GB005	use=8or22 AND exs=28		airport/airfield - operational; military
VML2		Р	GB005	use=8or22 AND exs=28		airport/airfield - operational; military
2271	Point	: S`	Y(SAE0030)		purple "H" inside cir	
FFD		Р	GB035			heliport
2273	Point	: S`	Y		aero-blue solid cir w/ ope	en diag band
VML1		Р	GB055	exs=28	·	runway - operational
2274	Point	: S`	Y		magenta M inside cir	
VML0		Р	SU001			military base
2278	Point				black dot in square	•
DTOP	1 On it	P	ZB030		black dot ill square	boundary monument
VML2		Р	ZB030			boundary monument
2279	Point	: S'	V		black triangle w/ dot insid	
DTOP	· On it	P	ZB035		Siden triangle W dot IIISI	control point/control station
UVM		Р	ZB033			benchmark
UVM		Р	ZB035			control point/control station
VML1		Р	ZB035			control point/control station
VML2		Р	ZB035			control point/control station
2281	Point	: S`	Y		gray cir w/ open diag bai	nd
VML1		Р	GB055	exs<>28	, , , , , , , , , , , , , , , , , , ,	runway - not operational

Produ	ıct	Delin	FCODE	Attribute Condition		Description
2320	Point	SY	((SAE0028)		basic blue sm cir in cir w	/4 squares outside
UVM			BH075			fountain
2323	Point	S	/		black dot	
VML0	1 Onit		AL260		black dot	wall
	Lina			105)	It was a south thin alone line	···aii
3000	Line		S(DASH,2,CHM	,	It magenta thin dash line	and the same of th
DNC		L A	BB010 BB010	mac=12		anchorage - anchoring berth
DNC				mac=12		anchorage - anchoring berth
3001	Line		S(SOLD,2,light-	• ,	It beige thin solid line	
DTOP		L	AL015	bfc=7		building - house of worship
UVM		L	AL015	bfc=7or114		building - house of worship
VML2		L	AL015	bfc=7		building - house of worship
3003	Line	LS	S(SOLD,1,med-	-tan)	tan very thin solid line	
DTOP		L	DB100			esker
VML1		L	DB100			esker
VML2		L	DB100			esker
3012	Line	LS	(SOLD,2,CHB	RN)	brown thin solid line	
DTOP		L	AP030	wtc=1 AND exs=28 AND med<>1	AND rst=2	road - operational - loose surface
FFD		L	AP030	wtc=1 AND exs=28 AND med<>1	AND rst=2	road - operational - loose surface
UVM		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN	D rst=2or3	road - operational - loose surface
VITD		L	AP030	wtc=1 AND exs=1 AND fco<>5and	d<>6 AND rst=2	road - operational - loose surface
VML1		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN	D rst=2or3	road - operational, loose surface
VML2		L	AP030	wtc=1 AND exs=28 AND ltn<2 AN	D rst=2or3	road - operational - loose surface
3014	Line	LS	S(SOLD,3,CHB	RN)	brown solid line	
UVM		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	ND med<>1 AND rst=2or3	road - operational, loose surface, no median
VML1		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	ND med<>1 AND rst=2or3	road - operational, loose surface, no median
VML2		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	ND med<>1 AND rst=2or3	road - operational, loose surface, no median
3017	Line	1.5	(DASH,2,CHB	RN)	brown thin dash line	
VML0			DB160	,		rock strata/rock formation
3021	Line	1 0	S(DASH,3,med	red_brown)	red brown dashed line	
UVM	LIIIC		AP030	wtc=1 AND exs<>28 AND ltn>=2		road - non-operational, hard surface, no median
VML1		L	AP030	wtc=1 AND exs<>28 AND med<>		road - non-operational, hard surface, no median
VML2			AP030	wtc=1 AND exs<>28 AND ltn>=2		road - non-operational, hard surface, no median
				WICE I AIND EXSTAND HITE -2 I		
3022	Line	LC		Local AND commutation	brown thin dash line w/ o	
UVM		L	AQ113	loc=4 AND pro<>116		pipeline/pipe - underground; not water
VML0		L	AQ113	loc=4		pipeline/pipe - underground
VML1		L L	AQ113 AQ113	loc=4 AND pro<>116		pipeline/pipe - underground; not water
VML2				loc=4 AND pro<>116		pipeline/pipe - underground; not water
	Line		S(SOLD,1,med-	,	red brown very thin solid	
DTOP			DB060	mcc=0or30		crevice/crevasse - earthen
VML1		L	DB060	mcc=0or30		crevice/crevasse - earthen
VML2		L	DB060	mcc=0or30		crevice/crevasse - earthen
3026	Line	LS	S(SOLD,1,med-	-red-brown)	red brown solid line	
DTOP			DB110			fault
FFD		L	CA010	hqc=0or1		contour line (land) - index, unknown
UVM		L	CA010	mcc<>103 AND hqc=0or1		contour line (land) - index
UVM		L	DB110			fault
VML0		L	CA010	hqc=19		contour line (land) - carrying contour (coincident)
VML0		L	DB110			fault
VML1		L	CA010			contour line (land)

Produ	ct	Delin	FCODE	Attribute Condition		Description
VML2		L	CA010	mcc<>103 AND hqc=0or1		contour line (land) - index
VML2		L	DB110			fault
3028	Line	LS	S(DASH.2.me	ed-red-brown)	red brown thin dash line	
DTOP		L	AP030	wtc=1 AND exs<>28 AND med<>		road - non-operational, hard surface
FFD		L	AP030	wtc=1 AND exs<>28 AND med<>		road - non-operational, hard surface
UVM		L	AP030	wtc=1 AND exs<>28 AND ltn<2 A		road - non-operational, hard surface
VITD		L	AP030	wtc=1 AND exs<>1 AND fco<>5a		road - non-operational, hard surface
VML0		L	AP030	exs<>28 AND med<>1		road - non-operational
VML1		L	AP030	wtc=1 AND exs<>28 AND ltn<2 A	AND rst=1	road - non-operational, hard surface
VML2		L	AP030	wtc=1 AND exs<>28 AND ltn<2 A	AND rst=1	road - non-operational, hard surface
3031	Line	1.9	S(SOLD,2,da	rk-areen)	very dk green thin solid l	line
VML1			EC030	in groon,	very an green timi dona i	trees
	Line	LC	`		very dk green thin line w	
	Line	L	EA020		very dk green thin line w	· · · · ·
DTOP UVM		L	EA020			hedgerow
VITD		L	EA020			hedgerow
VML0		L	EA020			hedgerow
VML2		L	EA020			hedgerow
						hedgerow
	Line		S(S-DASH,1,	,	basic blue very thin shor	
DTOP		L	BA010	slt=6or8		coastline/shoreline - mangrove, marsh
FFD		L	BA010	acc<>1		coastline/shoreline - not accurate
UVM		L	BA010	slt=6or8		coastline/shoreline - mangrove, marsh
UVM		L	BH210	slt=6or8		inland shoreline - mangrove, marsh
VML1		L	BA010	slt=6or8		coastline/shoreline - mangrove, marsh
VML2		L	BA010	slt=6or8		coastline/shoreline - mangrove, marsh
3047	Line	LS	S(L-DASH,2,I	olue)	basic blue thin long dash	n line
DTOP		L	BJ040			ice cliff
VML0		L	BJ040			ice cliff
VML1		L	BJ040			ice cliff
VML2		L	BJ040			ice cliff
3050	Line	LC	2		basic blue dashed line w	ı/ open cirs
DTOP		L	BH010	loc<>25		aqueduct - not elevated
FFD		L	BH010	loc<>25		aqueduct - not elevated
UVM		L	BH010	loc<>25		aqueduct - not elevated
VML1		L	BH010	loc<>25		aqueduct - not elevated
VML2		L	BH010	loc<>25		aqueduct - not elevated
3052	Line	LS	S(SOLD,2,CF	IMGD)	magenta thin solid line	
UVM		L	AH010			bastion/rampart/fortification
UVM		L	AH050			fortification
UVM		Α	GB030			helicopter landing pad
3054	Line	LS	S(S-DASH,1,	CHMGF)	It magenta very thin sho	rt dash line
FFD		L	FC021	mbl=0	J J 37,00	maritime limit boundary - unknown
UVM		L	AH060			underground bunker
UVM		L	AL120			missile site
UVM		L	FA015			firing range/gunnery range
WVS		L	FC021	mbl=999		maritime limit boundary - other territorial baseline
3061	Line	LS	S(DOTT,2,CH	IMGD)	magenta thin dotted line	
UVM		L	AT045	,		radar transmitter
UVM			AL120			missile site
	Line	LO			magenta thin wavy solid	
UVM	LITIC	L	AT020		magema umi wavy solio	early warning radar site
		_				carry warning radar site

Produ	ıct	Delin	FCODE	Attribute Condition		Description
3069	Line	L:	S(SOLD,1,a	ero-blue)	aero-blue very thin sol	lid line
UVM		L	GB055	·	·	runway
VITD		L	GB055			runway
VML1		L	GB055			runway
3070	Line	LS	S(SOLD,2,a	ero-blue)	aero-blue thin solid line	e
DTOP		Α	GB075			taxiway
UVM		L	GB075			taxiway
UVM		Α	GB075			taxiway
VITD		Α	GB055			runway
VML2		Α	GB075			taxiway
3073	Line	LS	S(S-DASH,2	2,aero-blue)	aero-blue thin short da	ash line
UVM		L	GB045			overrun/stopway
3074	Line	L	С		purple thin solid line w	/ dots on each side
DTOP		L	AT030			power transmission line
UVM		L	AT030			power transmission line
VML0		L	AT030			power transmission line
VML1		L	AT030			power transmission line
VML2		L	AT030			power transmission line
3076	Line	L:	S(SOLD,2,C	CHGRF)	It gray thin solid line	
UVM		L	EC040	,		cleared way/cut line/firebreak
VML0		L	EC040			cleared way/cut line/firebreak
VML1		L	EC040			cleared way/cut line/firebreak
VML2		L	EC040			cleared way/cut line/firebreak
3077	Line	LS	S(DASH,1,0	CHGRF)	It gray very thin dash li	ine
DNC		L	FC021	mbl=7 AND mac=NULL		maritime limit boundary - territorial waters baseline
DNC		L	FC031	mac=2		maritime area - dredged channel
DNC		Α	BD060			kelp/seaweed
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0	and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0	and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0	and <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>= isdm=0	msscand <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>=	ssdc	maritime area - dredged channel, 2 shades, deep water
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>= isdm=1	msscand <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=	msdc	maritime area - dredged channel, 4 shades, deep water
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=1		maritime area - dredged channel, depth unknown, shallow mode on
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=0		maritime area - dredged channel, depth unknown, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=	ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0	and <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
WVS		L	FC021	mbl=7		maritime limit boundary - territorial waters baseline
3082	Line		S(SOLD,1,C	CHGRD)	gray very thin solid line	
DNC		L	DB090			embankment/fill
DTOP		Α .	ZD020			void collection area
FFD		L	BE015			depth contour
FFD		A	ZD020			void collection area
TOD0		Α	ZD020			void collection area

Product	Delin	FCODE	Attribute Condition	Description
TOD1	Α	ZD020		void collection area
TOD2	Α	ZD020		void collection area
TOD4	Α	ZD020		void collection area
UVM	L	BH165		spillway
VML0	L	BE015		depth contour
VML0	Α	ZD020		void collection area
VML1	L	BE015		depth contour
VML1	Α	ZD020		void collection area
VML2	L	BE015		depth contour
VML2	Α	ZD020		void collection area
WVS	L	BE015		depth contour
3086 Line	L	S(S-DASH	,1,CHGRD)	gray very thin short dash line
DTOP	L	AF020		conveyor
UVM	L	AF020		conveyor
VML1	L	AF020		conveyor
VML2	L	AF020		conveyor
3096 Line	L	С		gray very rhin dash line w/ dot
DTOP	L	AT060		telephone line/telegraph line
UVM	L	AT060		telephone line/telegraph line
VML0	L	AT060		telephone line/telegraph line
VML1	L	AT060		telephone line/telegraph line
VML2	L	AT060		telephone line/telegraph line
3104 Line	L	S(SOLD,3,	CHRED)	red solid line
FFD	Α	AL045		complex outline
UVM	L	AL015	bfc=2or3or5or8or28or52or121	building - government
UVM	Α	AL045		complex outline
VML0	Α	SU001		military base
3106 Line	L	C		depth pale blue very thin solid line w/ ticks
DTOP	L	BH060	loc=25	flume - elevated
DTOP	L	BH110	loc=25	penstock - elevated
UVM	L	BH060	loc=25	flume - elevated
UVM	L	BH110	loc=25	penstock - elevated
VML1	L	BH060	loc=25	flume - elevated
VML1	L	BH110	loc=25	penstock - elevated
VML2	L	BH060	loc=25	flume - elevated
VML2	L	BH110	loc=25	penstock - elevated
3107 Line	L	S(SOLD,1,	DEPMD)	depth pale blue very thin solid line
DTOP	L	BH030		ditch
DTOP	L	BH060	loc<>25	flume - not elevated
DTOP	L	BH110	loc<>25	penstock - not elevated
UVM	L	BH060	loc<>25	flume - not elevated
UVM	L	BH110	loc<>25	penstock - not elevated
VML1	L	BH060	loc<>25	flume - not elevated
VML1	L	BH110	loc<>25	penstock - not elevated
VML2	L	BH060	loc<>25	flume - not elevated
VML2	L	BH110	loc<>25	penstock - not elevated
3108 Line		S(SOLD,2,	,	depth pale blue thin solid line
DTOP	L	BH020	hyc=0or8	canal - perennial
FFD	L	BH020	hyc=8	canal - perennial
UVM	L	BH020	hyc=8	canal - perennial
VITD VML1	L L	BH020 BH020	hyo=9	canal
V IVIL I		D11020	hyc=8	canal - perennial

Product	Delin	FCODE	Attribute Condition	Description
VML2	L	BH020	hyc=8	canal - perennial
3109 Line	L	S(DOTT,2,DEF	MD) depth	pale blue thin dotted line
DTOP	L	BH020	hyc=3	canal - dry
DTOP	L	BH200	•	miscellaneous surface drainage feature
3112 Line	1	S(SOLD,2,CHE	l K) hlack	thin solid line
DTOP	L	AL015	bfc<>6and<>7and<>15	building - generic
DTOP	A	AL020 ⇔pop	bic voalid v raild v 13	built-up area
DTOP	Α	AL105 ⇔pop		settlement
DTOP	Α	AL135 ⇔pop		native settlement
DTOP	Α	BB090		drydock
DTOP	Α	BH050		fish hatchery/fish farm/marine farm
DTOP	Α	DB145		miscellaneous obstacle
FFD	Α	BH050		fish hatchery/fish farm/marine farm
TOD0	L	FC102		range center line
UVM	L	AL015	bfc<>2and<>3and<>5and<>8and<>15and	l<>28and<>52and building - generic
			<>121and<>6and<>7and<>114and<>100	and<>60and<>10
UVM	Α	AQ130		tunnel
UVM	Α	BB090		drydock
UVM	Α	BH050		fish hatchery/fish farm/marine farm
VITD	L	DB190		volcanic dike
VITD	Α	AL020		built-up area
VML0	Α	BH050		fish hatchery/fish farm/marine farm
VML1	Α	BH050		fish hatchery/fish farm/marine farm
VML2	L	AL015	bfc<>6and<>7and<>15	building - generic
VML2	Α	BB090		drydock
VML2	Α	BH050		fish hatchery/fish farm/marine farm
3113 Line	L	.S(SOLD,3,CHE	sLK) black	solid line
DTOP	L	AK130		race track
DTOP	L	AL260		wall
DTOP	L	BI020		dam/weir
DTOP	Α .	AK160		stadium/amphitheater
FFD	L	BI020		dam/weir
UVM	L	AK130		race track
UVM	L	AL260		wall
UVM	L A	BI020 AK130		dam/weir
UVM	A	AK160		race track stadium/amphitheater
UVM VITD	L	AL260		stadium/ampilitrieater wall
VITD	L	BI020		dam/weir
VML0	L	AL260		wall
VML0	L	BI020		dam/weir
VML0	A	AK130		race track
VML1	L	AK130		race track
VML1	L	AL260		wall
VML1	L	BI020		dam/weir
VML2	L	AK130		race track
VML2	L	AL260		wall
VML2	L	BI020		dam/weir
VML2	Α	AK160		stadium/amphitheater
3114 Line	L	S(S-DASH,1,C	HBLK) black	very thin short dash line
DTOP	L	AL155		overhead obstruction location
DTOP	L	BH070		ford

Product	Delin	FCODE	Attribute Condition		Description
DTOP	Α	AI020			mobile home/mobile home park
DTOP	Α	AL200			ruins
FFD	L	BH070			ford
UVM	L	BH070			ford
UVM	Α	AI020			mobile home/mobile home park
UVM	Α	AL200			ruins
VITD	L	BH070			ford
VML0	L	BH070			ford
VML1	L	BH070			ford
VML1	Α	AL200			ruins
VML2	L	BH070			ford
VML2	Α	AI020			mobile home/mobile home park
VML2	Α	AL200			ruins
3115 Line	L	S(S-DASH,2	2,CHBLK)	black thin short dash line	
DTOP	L	AQ070			ferry crossing
FFD	L	AQ070			ferry crossing
UVM	L	AQ070			ferry crossing
VITD	L	AQ070			ferry crossing
VITD	L	AQ111			prepared raft or float bridge site
VML0	L	AQ070			ferry crossing
VML1	L	AQ070			ferry crossing
VML2	L	AQ070			ferry crossing
3116 Line	L	S(DASH,1,C	CHBLK)	black very thin dash line	
DNC	Α	BC060	,	•	light sector
DTOP	Α	AA010			mine
DTOP	Α	AA012			quarry
DTOP	Α	BH020 sdr	cda=2		canal - covered
DTOP	Α	BH030 sdr	cda=2		ditch - covered
FFD	L	AP010			cart track
UVM	L	AA010			mine
UVM	L	AA012			quarry
UVM	Α	AA010			mine
UVM	Α	AA012			quarry
VITD	L	AP010			cart track
VML0	Α	AA010			mine/quarry
VML1	L	AP010			cart track
VML1	Α	AA010			mine/quarry
VML2	Α	AA010			mine/quarry
3117 Line	L	S(DASH,2,C	CHBLK)	black thin dash line	
DNC	Α	BD180	vrr=4 AND hdp>20		wreck - submerged; depth greater than 20m
DTOP	L	AP010			cart track
DTOP	L	BH120			rapids
DTOP	Α	AK030			amusement park
DTOP	Α	AK060			campground/campsite
DTOP	Α	AK120			park
DTOP	Α	AK180			zoo/safari park
DTOP	Α	AT050			communication building
UVM	L	AP010			cart track
UVM	Α	AF030			cooling tower
UVM	Α	AH060			underground bunker
UVM	Α	AK030			amusement park
UVM	Α	AK060			campground/campsite
UVM	Α	AK120			park

Product	Delin	FCODE	Attribute Condition	ruii Ciiart	Description
Troduct	Deiiii	TOODL	Attribute condition		Description
UVM	Α	AK180			zoo/safari park
UVM	Α	AL250			underground dwelling
UVM	Α	DB030			cave
VITD	L	SA060			covered drainage
VML1	L	BH120			rapids
VML1	Α	AK120			park
VML2	L	AP010			cart track
VML2	L	BH120			rapids
VML2	Α	AK030			amusement park
VML2	Α	AK060			campground/campsite
VML2	Α	AK120			park
VML2	Α	AK180			zoo/safari park
VML2	Α	AT050			communication building
3118 Line	1.	S(DASH,3	R CHRLK)	black dash line	
DTOP	A	FA170	o,onben	black dasii iiiic	zone of occupation
VITD	Α	BH090			land subject to inundation
VML0	L	FA050			mandate line/convention line
VML0	A	FA170			zone of occupation
VML1	L	FA050			•
	A	FA170			mandate line/convention line
VML1					zone of occupation
VML2	A	FA170			zone of occupation
WVS	L	FA050			mandate line/convention line
3119 Line		•	H,1,CHBLK)	black very thin long dash	n line
DNC	L	FA020			armistice line
DNC	L	FA110			international date line
DTOP	L	FA020			armistice line
DTOP	L	FA030			cease-fire line
DTOP	L	FA110			international date line
FFD	L	FA020			armistice line
FFD	L	FA030			cease-fire line
UVM	L	FA020			armistice line
VML0	L	FA020			armistice line
VML0	L	FA030			cease-fire line
VML0	L	FA110			international date line
VML1	L	FA020			armistice line
VML1	L	FA030			cease-fire line
VML1	L	FA110			international date line
VML2	L	FA020			armistice line
VML2	L	FA030			cease-fire line
VML2	L	FA110			international date line
WVS	L	FA020			armistice line
WVS	L	FA030			cease-fire line
3120 Line		S(I_DASE	1,2,CHBLK)	black thin long dash line	
DNC	L	FA040	1,2,011021()	black tilli forig addir lifte	claim line
VML0	L	FA040			claim line
WVS	L	FA040			claim line
			LO CLIDLIC)	blook long, doob line	Claim line
3121 Line		-	H,3,CHBLK)	black long dash line	. The section of the
DTOP	L	AP020			interchange
UVM	L	AP020			interchange
VML2	L	AP020			interchange
3123 Line	L	С		black solid line w/ single	tics both sides
DTOP	L	AN010	exs=0or28 AND ltn<2		railroad - operational, unknown/1 lane
DTOP	L	AN050	rgc<>2		railroad siding/railroad spur - normal,broad,unknown

Product	Delin	FCODE	Attribute Condition	Description
FFD	L	AN010	exs=0or28 AND rgc<>2	railroad - operational, normal/broad/unknown
FFD	L	AN050	rgc<>2	railroad siding/railroad spur - normal/broad/unknown
UVM	L	AN010	exs=0or28 AND rgc<>2	railroad -op, unkn/norml/brd
UVM	L	AN050	rgc<>2	railroad siding/railroad spur - normal,broad,unknown
VITD	L	AN010	exs=0or1 AND fco=0or3	railroad - definite, unkn/single
VITD	L	AN050	exs=0or1 AND rrc=0or1or5	railroad siding/railroad spur - normal/broad, definite
VITD	L	AN060		railroad yard/marshalling yard
VML0	L	AN010	exs=28 AND fco=0or3	railroad -op, unkn/single
VML1	L	AN010	exs=0or28 AND fco=0or3 AND rgc<>2	railroad -op, unkn/single, unkn/norml/brd
VML1	L	AN050	rgc<>2	railroad siding/railroad spur - normal,broad,unknown
VML2	L	AN010	exs=0or28 AND fco=0or3 AND rgc<>2	railroad -op, unkn/single, unkn/norml/brd
VML2	L	AN050	rgc<>2	railroad siding/railroad spur - normal,broad,unknown
125 Line	e L	С	black solid line w/ s	single tics alt sides
DTOP	L	AN050	rgc=2	railroad siding/railroad spur - narrow
FFD	L	AN010	exs=0or28 AND rgc=2	railroad - operational, narrow
FFD	L	AN050	rgc=2	railroad siding/railroad spur - narrow
UVM	L	AN010	exs=0or28 AND rgc=2	railroad -op, narrow
UVM	L	AN050	rgc=2	railroad siding/railroad spur - narrow
VITD	L	AN050	exs=0or1 AND rrc=4	railroad siding/railroad spur - narrow, definite
VML1	L	AN010	exs=0or28 AND fco=0or3 AND rgc=2	railroad -op, unkn/single, narrow
VML1	L	AN050	rgc=2	railroad siding/railroad spur - narrow
VML2	L	AN010	exs=0or28 AND fco=0or3 AND rgc=2	railroad -op, unkn/single, narrow
VML2	L	AN050	rgc=2	railroad siding/railroad spur - narrow
127 Line	e L	С	black solid line w/ o	double tics both sides
DTOP	L	AN010	exs=0or28 AND ltn>1	railroad - operational, multiple lanes
VITD	L	AN010	exs=0or1 AND fco<>0and<>3	railroad - definite, multi
VML0	L	AN010	exs=28 AND fco<>0and<>3	railroad -op,multi
VML1	L	AN010	exs=0or28 AND fco<>0and<>3 AND rgc<>2	railroad -op,multi, unkn/norml/brd
VML2	L	AN010	exs=0or28 AND fco<>0and<>3 AND rgc<>2	railroad -op,multi, unkn/norml/brd
129 Line	e L	С	black solid line w/ o	double tics alt sides
VML1	L	AN010	exs=0or28 AND fco<>0and<>3 AND rgc=2	railroad -op, mult, narrow
VML2	L	AN010	exs=0or28 AND fco<>0and<>3 AND rgc=2	railroad -op, mult, narrow
131 Line	e L	С	black dash line w/ s	single tics both sides
DTOP	L	AN010	exs<>0and<>28	railroad - other
FFD	L	AN010	exs<>0and<>28 AND rgc<>2	railroad - non-operational, normal/broad/unknown
UVM	L	AN010	exs<>0and<>28 AND rgc<>2	railroad -non-op, unkn/norml/brd
VITD	L	AN010	exs<>0and<>1	railroad - dismantled, under construction
VML0	L	AN010	exs<>28 AND fco=0or3	railroad -non-op, unkn/single
VML1	L	AN010	exs<>0and<>28 AND fco=0or3 AND rgc<>2	railroad -non-op, unkn/single, unkn/norml/brd
VML2	L	AN010	exs<>0and<>28 AND fco=0or3 AND rgc<>2	railroad -non-op, unkn/single, unkn/norml/brd
133 Line	e L	С	black dash line w/ o	double tics both sides
VML0	L	AN010	exs<>28 AND fco<>0and<>3	railroad -non-op, multi
VML1	L	AN010	exs<>0and<>28 AND fco<>0and<>3 AND rgc<>2	railroad -non-op, multi, norml/brd/unkn
VML2	L	AN010	exs<>0and<>28 AND fco<>0and<>3 AND rgc<>2	railroad -non-op, multi, norml/brd/unkn
135 Line	e L	С	black dash line w/ s	
FFD	L	AN010	exs<>0and<>28 AND rgc=2	railroad - non-operational, narrow
	L	AN010	exs<>0and<>28 AND rgc=2	railroad -non-op, narrow
UVM		AN050	exs<>0and<>1	railroad siding/railroad spur - dismantled, under
UVM VITD	L			construction
	L	AN010	exs<>0and<>28 AND fco=0or3 AND rgc=2	construction railroad -non-op, single/unkn, narrow

Produ	ıct	Delin	FCODE	Attribute Condition		Description
3137	Line	L			black dash line w/ double	e tics alt sides
VML1		L	AN010	exs<>0and<>28 AND fco<>0and<		railroad -non-op, multi, narrow
VML2		L	AN010	exs<>0and<>28 AND fco<>0and<	· ·	railroad -non-op, multi, narrow
	Lino	1.0	S(DOTT,1,CHB		<u> </u>	
3139 VML0	Line	L,	BD000	LN)	black very thin dotted line	
						underwater danger/hazard
3141	Line	. L			black three dash one dot	•
DTOP		L	AQ130			tunnel
FFD		L	AQ130			tunnel
UVM		L	AQ130			tunnel
VITD		L L	AQ130 AQ130			tunnel
VML0 VML1		L	AQ130 AQ130			tunnel tunnel
VML2		L	AQ130 AQ130			tunnel
3142	Line	. L			black parallel vy thin lines	
DTOP		L	BH100			moat
VITD		L	BH100			moat
VML0		L	AQ064			causeway
3143	Line	L			black double dash very th	hin lines
DTOP		Α	FA070			demilitarized zone
UVM		Α	FA070			demilitarized zone
VML0		A	FA070			demilitarized zone
VML1		A	FA070			demilitarized zone
VML2		A	FA070			demilitarized zone
WVS		L	FA070	mbl=6		demilitarized zone
3146	Line	L	-		black solid triangle line pa	att
DTOP		L	AL210			snow shed/rock shed
DTOP		L	DB010			bluff/cliff/escarpment
UVM		L	DB010			bluff/cliff/escarpment
VITD		L	DB010			bluff/cliff/escarpment
VML0		L	AL210			snow shed/rock shed
VML0		L	DB010			bluff/cliff/escarpment
VML1		L L	AL210 DB010			snow shed/rock shed
VML1 VML2		L	AL210			bluff/cliff/escarpment snow shed/rock shed
VML2		L	DB010			bluff/cliff/escarpment
	1				black watt for a second	bian com cocarpment
3148	Line	L	•		black patt line -x -x -x	f
DTOP		L	AL070 AL070			fence
UVM		L	AL070 AL070			fence
VML1 VML2		L	AL070 AL070			fence fence
	1:			ross)	hoine was this list I'	
3153	Line		S(SOLD,2,beige	,	beige-rose thin solid line	building boortel
DTOP UVM		L L	AL015 AL015	bfc=6		building - hospital
VML2		L	AL015 AL015	bfc=6or100 bfc=6		building - hospital building - hospital
					donth note by	
3167	Line		S(S-DASH,2,DE	·	depth pale blue thin short	
FFD		L	BH020	hyc<>8		canal - not perennial
UVM		L	BH020	hyc<>8		canal - not perennial
VML1		L	BH020	hyc<>8		canal - not perennial
VML2		L	BH020	hyc<>8		canal - not perennial
3168	Line		S(DOTT,2,OUT	LL)	outline It brown thin dotte	
DTOP		L	DB190			volcanic dike

3186 Line LC black jagged line DTOP L BD120 reef DTOP A BD120 reef VML0 L BD120 reef	
DTOP L BD120 reef DTOP A BD120 reef VML0 L BD120 reef	
DTOP A BD120 reef VML0 L BD120 reef	
VML0 L BD120 reef	
···	
VML1 L BD120 reef	
VML1 A BD120 reef	
VML2 L BD120 reef	
VML2 A BD120 reef	
3194 Line LS(SOLD,1,NINFO) nav orange very thin solid line	
VITD L BI030 lock	
VML1 L BI030 lock	
4002 Area AC(light-beige) It beige solid fill	
DTOP A AL015 bfc=7 building - house of worship	
DTOP A SA050 spr=0 slope polygon - <= 3%	
UVM A AL015 bfc=7or114 building - house of worship	
VITD A SA050 gsc=2 slope polygon - <= 3%	
VML1 A AL015 bfc=7 building - house of worship	
VML2 A AL015 bfc=7 building - house of worship	
4003 Area AC(med-beige) beige solid fill	
DTOP A DA020 barren ground	
DTOP A SA050 spr=1 slope polygon - > 3% and <= 10%	
UVM A DA010 mcc<>8and<>52and<>46and<>84and<>88 ground surface element - not rock, not	not lava not sand
VITD A SA050 gsc=3 slope polygon - > 3% and <= 10%	iot lava, not bana
VML0 A DA010 smc<>52and<>88 ground surface element - not lava, no	ot sand
VML1 A DA010 mcc<>8and<>52and<>88and<>46 ground surface element - not rock, not	
VML2 A DA010 mcc<>8and<>52and<>46and<>88 ground surface element - not rock, not	
4005 Area AP beige stiple dot patt fill	
DTOP A BA060 beach zone	
DTOP A DA010 smc<>84 ground surface element - not rocky	
UVM A BA050 beach	
UVM A DA010 mcc=88 ground surface element - sand	
VML0 A DA010 smc=88 ground surface element - sand	
VML1 A DA010 mcc=88 ground surface element - sand	
VML2 A DA010 mcc=88 ground surface element - sand	
4008 Area AP beige sand dune default	
DTOP A DB170 ssc=0 sand dune/sand hills - unknown	
UVM A DB170 ssc=0 sand dune/sand hills - unknown	
VML1 A DB170 ssc=0 sand dune/sand hills - unknown	
VML2 A DB170 ssc=0 sand dune/sand hills - unknown	
4009 Area AP beige sand dune crescent	
DTOP A DB170 ssc=22 sand dune/sand hills - crescent	
UVM A DB170 ssc=22 sand dune/sand hills - crescent	
VML1 A DB170 ssc=22 sand dune/sand hills - crescent	
VML2 A DB170 ssc=22 sand dune/sand hills - crescent	
4010 Area AP beige sand dune lateral	
DTOP A DB170 ssc=26 sand dune/sand hills - lateral	
UVM A DB170 ssc=26 sand dune/sand hills - lateral	
VML1 A DB170 ssc=26 sand dune/sand hills - lateral	
VML2 A DB170 ssc=26 sand dune/sand hills - lateral	
4011 Area AP beige sand dune mound	
DTOP A DB170 ssc=27 sand dune/sand hills - mounds	

Produ	ct	Delin	FCODE	Attribute Condition		Description
UVM		Α	DB170	ssc=27		sand dune/sand hills - mounds
VML1		Α	DB170	ssc=27		sand dune/sand hills - mounds
VML2		Α	DB170	ssc=27		sand dune/sand hills - mounds
4012	Area	Α	P		beige sand dune ripple	
DTOP		Α	DB170	ssc=28		sand dune/sand hills - ripple
UVM		Α	DB170	ssc=28		sand dune/sand hills - ripple
VML1		Α	DB170	ssc=28		sand dune/sand hills - ripple
VML2		Α	DB170	ssc=28		sand dune/sand hills - ripple
4013	Area	Α	.P		beige sand dune star	
DTOP		Α	DB170	ssc=29	•	sand dune/sand hills - star
UVM		Α	DB170	ssc=29		sand dune/sand hills - star
VML1		Α	DB170	ssc=29		sand dune/sand hills - star
VML2		Α	DB170	ssc=29		sand dune/sand hills - star
4014	Area	А	.P		beige sand dune transve	erse
DTOP		Α	DB170	ssc=30		sand dune/sand hills - transverse
UVM		Α	DB170	ssc=30		sand dune/sand hills - transverse
VML1		Α	DB170	ssc=30		sand dune/sand hills - transverse
VML2		Α	DB170	ssc=30		sand dune/sand hills - transverse
4015	Area	Α	C(beige-rose)		beige-rose solid fill	
DTOP		Α	AL015	bfc=6	ge . eee ee	building - hospital
UVM		Α	AL015	bfc=6or100		building - hospital
VML2		Α	AL015	bfc=6		building - hospital
4018	Area	А	.C(light-tan)		It tan solid fill	<u> </u>
DTOP		Α	AL170			plaza/city square
UVM		Α	AL170			plaza/city square
VML2		Α	AL170			plaza/city square
4025	Area	А	C(LANDF)		feature brown solid fill	
DTOP		Α	AL015	bfc=15		building - school
UVM		Α	AL015	bfc=15or60or108		building - school
VML1		Α	AL015	bfc=15		building - school
VML2		Α	AL015	bfc=15		building - school
4027	Area	Α	P		brown wide left diag patt	fill
UVM		Α	DB200			gully/gorge
4028	Area	Α	.P		brown horizontal lines pa	att fill
DTOP		Α	AM010		·	depot (storage)
DTOP		Α	AM020			grain bin/silo
DTOP		Α	AM030			grain elevator
DTOP		Α	DB160			rock strata/rock formation
UVM		Α	AM010			depot (storage)
UVM		Α	AM020			grain bin/silo
UVM		Α	AM030			grain elevator
VML2		Α	AM010			depot (storage)
VML2		A	AM020			grain bin/silo
VML2		A	AM030			grain elevator
VML2		Α	DB160			rock strata/rock formation
4030	Area				brown left diag thin line p	
DTOP		A	DB060			crevice/crevasse
VML2		A	DB060			crevice/crevasse
4032	Area				brown stipple dot patt fill	
DTOP		A	BJ020			moraine
VML1		Α	BJ020			moraine

VML2 4034 Are UVM VML1 VML2 4036 Are UVM 4037 Are UVM 4045 Are DTOP DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2 VML2	A A A rea A A	DA010 DA010 DA010 C(med-red-brow AP030	mcc=46or84or8 mcc=46or8 mcc=46or8 wn) exs=0or28or999 exs=5or6or7	brown heavy mixed stipp red brown solid fill red brown horizontal line green solid fill	ground surface element - boulders, gravel, rock ground surface element - boulders, gravel ground surface element - boulders, gravel road - operational
UVM VML1 VML2 4036 Are UVM 4037 Are UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	A A A A A A	DA010 DA010 DA010 C(med-red-brov AP030 P AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	mcc=46or8 mcc=46or8 wn) exs=0or28or999	red brown solid fill red brown horizontal line	ground surface element - boulders, gravel, rock ground surface element - boulders, gravel ground surface element - boulders, gravel road - operational patt fill road - non-operational amusement park
UVM VML1 VML2 4036 Are UVM 4037 Are UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	A A A A A A	DA010 DA010 DA010 C(med-red-brov AP030 P AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	mcc=46or8 mcc=46or8 wn) exs=0or28or999	red brown solid fill red brown horizontal line	ground surface element - boulders, gravel, rock ground surface element - boulders, gravel ground surface element - boulders, gravel road - operational patt fill road - non-operational amusement park
UVM 4037 Are UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	rea Al A A A A A A A A	AP030 P AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	exs=0or28or999	red brown horizontal line	e patt fill road - non-operational amusement park
UVM 4037 Are UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	rea Al A A A A A A A A	AP030 P AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	exs=0or28or999	red brown horizontal line	e patt fill road - non-operational amusement park
UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	A A A A A	AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	exs=5or6or7		road - non-operational amusement park
UVM 4045 Are DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	A A A A A	AP030 C(CHGRN) AK030 AK060 AK120 AK180 AK030	exs=5or6or7		road - non-operational amusement park
DTOP DTOP DTOP UVM UVM UVM UVM VML1 VML2	A A A A	AK030 AK060 AK120 AK180 AK030		green solid fill	amusement park
DTOP DTOP DTOP UVM UVM UVM UVM VML1	A A A A	AK030 AK060 AK120 AK180 AK030		groon sona nii	•
VML2	A A A	AK120 AK180 AK120 AK030 AK060 AK120			park zoo/safari park amusement park campground/campsite park zoo/safari park park amusement park campground/campsite
VML2	Α	AK180			zoo/safari park
4051 Are				very dk green squares in	
DTOP FFD UVM VITD VML0 VML1 VML2	A A A A A	EA040 EA040 EA040 EA040 EA040 EA040 EA040			orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation orchard/plantation
				aroon homboo nott fill	ordinary plantation
DTOP UVM VITD VML0 VML2	rea Al A A A A	EC010 EC010 EC010 EC010 EC010		green bamboo patt fill	bamboo/cane bamboo/cane bamboo/cane bamboo/cane bamboo/cane
4054 Are	rea A	P		very dk green offset grid.	/dot patt fill
DTOP UVM UVM VITD VML0 VML1 VML2	A A A A A	EA050 EA050 EA055 EA050 EA050 EA050		, , , , , , , , , , , , , , , , , , , ,	vineyards vineyards hops vineyards vineyards vineyards vineyards vineyards vineyards
4063 Are				yellow-green stipple dot	
DTOP UVM UVM VITD VML0 VML2	A A A A A	EB020 EB020 EE000 EB020 EB020 EB020		yenow-green stippie dot	scrub/brush scrub/brush miscellaneous vegetation scrub/brush scrub/brush

Produ	ıct	Delin	FCODI	E	Attribute Condition		Description
4066	Area	А	P			yellow-green variated sti	ipple dot patt fill
DTOP		Α	BJ110				tundra
VML0		Α	BJ110				tundra
VML1		Α	BJ110				tundra
VML2		Α	BJ110				tundra
4067	Area	Α	.P			yellow-green dot patt fill	
DTOP		Α	EA010				cropland
UVM		Α	EA010				cropland
VITD		Α	EA010				cropland
VML0		Α	EA010				cropland
VML1		Α	EA010				cropland
VML2		Α	EA010				cropland
4068	Area	Α	.P			yellow-green grass patt i	fill
DTOP		Α	EB010				grassland
UVM		Α	EB010				grassland
VITD		Α	EB010				grassland
VML0		Α	EB010				grassland
VML1		Α	EB010				grassland
VML2		Α	EB010				grassland
4071	Area	Α	C(blue)			basic blue solid fill	
DTOP		Α	BH080	⇔sdr			lake/pond
DTOP		Α	BH080	sdr	hyc=8		lake/pond - perennial
FFD		Α	BH080		hyc=0or8		lake/pond - perennial, unknown
UVM		Α	BH080		hyc=0or8		lake/pond - perennial, unknown
VML1		Α	BH080		hyc=0or8		lake/pond - perennial, unknown
VML2		Α	BH080		hyc=0or8		lake/pond - perennial, unknown
4077	Area	Α	.P			depth med blue narrow r	t diag line patt fill
DNC		Α	AC030				settling basin/sludge pond
DTOP		Α	AC030				settling basin/sludge pond
FFD		Α	AC030				settling basin/sludge pond
UVM		A	AC030				settling basin/sludge pond
VML1		Α	AC030				settling basin/sludge pond
VML2		Α	AC030				settling basin/sludge pond
4078	Area	Α	.P			basic blue inundation are	ea patt fill
DNC		Α	BH090				land subject to inundation
DTOP		Α	BH090				land subject to inundation
FFD		Α	BH090				land subject to inundation
UVM		Α	BH090				land subject to inundation
VML0		A	BH090				land subject to inundation
VML1		A	BH090				land subject to inundation
VML2		Α	BH090				land subject to inundation
4079	Area	Α				100% cyan blue stipple o	dot patt fill
DTOP		Α	BH140	sdr	hyc=3or6		river/stream - dry, intermittent
FFD		Α	BH140		hyc=3or6		river/stream - dry, non-perennial
UVM		A	BH140		hyc=3or6		river/stream - dry, intermittent
VITD		A	BH140		hyc=3or6		river/stream - dry, intermittent
VML1		A	BH140		hyc=3or6		river/stream - dry, intermittent
VML2		Α	BH140		hyc=3or6		river/stream - dry, intermittent
4080	Area	A				basic blue marsh/swamp	•
DTOP		A	BH095		veg=0or56		marsh/swamp - no trees
FFD		A	BH095				marsh/swamp
UVM		Α	BH015				bog

Produ	ıct	Delin	FCODE	Attribute Condition		Description
UVM		Α	BH095			marsh/swamp
VITD		Α	BH095			marsh/swamp
VML0		Α	BH015			bog
VML0		Α	BH095			marsh/swamp
VML1		Α	BH015			bog
VML1		Α	BH095			marsh/swamp
VML2		Α	BH015			bog
VML2		Α	BH095			marsh/swamp
4081	Area	Α	.P		basic blue diag grid patt	fill
DTOP		Α	BH150			salt pan
4085	Area	Α	.P		basic blue rice patt fill	
FFD		Α	BH135			rice field
VITD		Α	BH135			rice field
VML0		Α	BH135			rice field
VML1		Α	BH135			rice field
VML2		Α	BH135			rice field
4089	Area	А	C(CHMGD)		magenta solid fill	
DTOP	,	Α	AL140		magema coma mi	particle accelerator
DTOP		Α	GB055			runway
FFD		Α	GB055			runway
UVM		Α	AL140			particle accelerator
UVM		Α	AT010			disk/dish
UVM		Α	AT050			communication building
UVM		Α	GB055			runway
VML2		Α	AL140			particle accelerator
VML2		Α	GB055			runway
4098	Area	А	D		purple wide rt diag line p	
DTOP	Aica	Α	GB045		purple wide it diag life p	overrun/stopway
UVM		Α	GB045			overrun/stopway
VML2		Α	GB045			overrun/stopway
	A				14	overruin-stopway
4100	Area		C(CHGRF)		It gray solid fill	
UVM		A	AF030			cooling tower
UVM		A	AH060			underground bunker
UVM		Α	AL250			underground dwelling
4105	Area	Α			It gray rt diag thin line pa	tt fill
DTOP		Α	ZD020			void collection area
FFD		Α	ZD020			void collection area
TOD0		Α	ZD020			void collection area
TOD1		Α	ZD020			void collection area
TOD2		Α	ZD020			void collection area
TOD4		A	ZD020			void collection area
VML0		Α	ZD020			void collection area
VML1		A	ZD020			void collection area
VML2		Α	ZD020			void collection area
4107	Area				It gray dot patt fill	
VML2		Α	AB010			wrecking yard/scrap yard
4108	Area	Α			It gray land cover/ripple	patt fill
UVM		Α	DA010	mcc=52		ground surface element - lava
VML0		Α	DA010	smc=52		ground surface element - lava
VML1		Α	DA010	mcc=52		ground surface element - lava
VML2		Α	DA010	mcc=52		ground surface element - lava
					004	

Produ	ıct	Delin	FCODE	E	Attribute Condition		Description
4109	Area	A	C(DEPC	CN)		depth gray solid fill	
DTOP		Α	AT050	,		3 . 7	communication building
VML2		Α	AT050				communication building
4114	Area	Α	D			denth gray horizontal line	, and the second
	Alea	A	AM060			depth gray horizontal line	·
DTOP UVM		A	AM060				storage bunker/storage mound
VML2		A	AM060				storage bunker/storage mound
							storage bunker/storage mound
4123	Area	A				depth gray stiple patt fill	
UVM		Α	AM040				mineral pile
4124	Area	Α	P			depth gray land cover/rip	ple patt fill
DTOP		Α	DA005				asphalt lake
UVM		Α	DA005				asphalt lake
VML1		Α	DA005				asphalt lake
VML2		Α	DA005				asphalt lake
4128	Area	Α	C(CHYL	W)		yellow solid fill	
DTOP		Α	AL020	pop			built-up area
FFD		Α	AL020				built-up area
UVM		Α	AL020				built-up area
VML0		Α	AL020				built-up area
VML1		Α	AL020				built-up area
VML2		Α	AL020				built-up area
4138	Area	Α	C(blue-4	4)		med blue solid fill	
DTOP		Α	AK170				swimming pool
DTOP		Α	BH020	⇔sdr			canal
DTOP		Α	BH020	sdr	cda<>2		canal - not covered
DTOP		Α	BH020	sdr	cda=2		canal - covered
DTOP		Α	BH050				fish hatchery/fish farm/marine farm
DTOP		Α	BH130				reservoir
FFD		Α	BH020		hyc=8		canal - perennial
FFD		Α	BH050				fish hatchery/fish farm/marine farm
FFD		Α	BH130				reservoir
UVM		Α	AK170				swimming pool
UVM		Α .	BH020		exs=32 AND hyc=8		canal - navigable; perennial
UVM		A	BH050				fish hatchery/fish farm/marine farm
UVM		A	BH130				reservoir
VML0		A	BH050 BH050				fish hatchery/fish farm/marine farm
VML1 VML1		A A	внозо ВН130				fish hatchery/fish farm/marine farm
VML1 VML2		A	AK170				reservoir swimming pool
VML2		A	BH020		exs=32 AND hyc=8		canal - navigable; perennial
VML2		A	BH050		ONO FOR MIND HYO-U		fish hatchery/fish farm/marine farm
VML2		Α	BH130				reservoir
	A ====					donth note blue Iff die all	
4145	Area	A A	BH165			depth pale blue lft diag d	·
UVM	Δ					denth mala hit dist	spillway
4150	Area	A				depth pale blue stiple do	
DTOP		A	BH200				miscellaneous surface drainage feature
DTOP		A A	BJ030 BJ030				glacier
VML1 VML2		A	ВЈ030				glacier
							glacier
4151	Area	A				basic blue ripple jagged p	
DTOP		Α	BJ065				ice shelf

Produ	ıct	Delin	FCOD	E	Attribute Condition		Description
DTOP		Α	BJ070				pack ice
VML0		Α	BJ065				ice shelf
VML0		Α	BJ070				pack ice
VML1		Α	BJ065				ice shelf
VML1		Α	BJ070				pack ice
VML2		Α	BJ065				ice shelf
VML2		Α	BJ070				pack ice
4152	Area	Α	C(blue-	3)		It blue solid fill	
UVM		Α	BH100				moat
VML0		Α	BH000				inland water
4154	Area	Α	C(blu31)		31% cyan blue solid fill	
DTOP		Α	BH140	•	hyc=0or8	•	river/stream - perennial, unknown
DTOP		Α	BH140	⇔sdr	,		river/stream
FFD		Α	BH140		hyc=0or8		river/stream - perennial, unknown
UVM		Α	BH140		hyc=0or8		river/stream - perennial, unknown
VITD		Α	BH140		hyc=0or8or14		river/stream - perennial, braided, unknown
VML1		Α	BH140		hyc=0or8		river/stream - perennial, unknown
VML2		Α	BH140		hyc=0or8		river/stream - perennial, unknown
4156	Area	А	C(CHBI	LK)		black solid fill	· ·
DTOP		Α	AL015	,	bfc<>6and<>7and<>15		building - generic
DTOP		Α	AM070				tank
DTOP		Α	BI020				dam/weir
FFD		Α	BI020				dam/weir
U∨M		Α	AK110				grandstand
UVM		Α	AL015		bfc<>2and<>3and<>5and<>8and d<>15and<>6and<>7and<>114ar 8		building - generic
UVM		Α	AM070				tank
UVM		Α	AM080				water tower
UVM		Α	AQ125				station (miscellaneous)
UVM		Α	BI020				dam/weir
VML1		Α	AL015		bfc<>7and<>15		building - generic
VML2		Α	AL015		bfc<>6and<>7and<>15		building - generic
VML2		Α	AM070				tank
VML2		Α	BI020				dam/weir
4167	Area	Α	.P			black cross hatch patt fill	
UVM		Α	AN075				railroad turntable
4170	Area	Α	.P			It blue mixed stipple dot p	patt fill
DTOP		Α	EC020				oasis
VML0		Α	EC020				oasis
VML2		Α	EC020				oasis
4175	Area	А	C(APLF	RT)		It orange solid fill	
DTOP		Α	SA050		spr=6		slope polygon - > 45% and <= 60%
UVM		Α	AL130				monument
VITD		Α	SA050		gsc=7		slope polygon - > 45%
4180	Line	L	S(S-DA	SH,1,D	EPMD)	depth pale blue very thin	short dash line
DTOP		Α	BJ100				snow field/ice field
VML0		Α	BJ100				snow field/ice field
VML1		Α	BJ100				snow field/ice field
VML2		Α	BJ100				snow field/ice field
4182	Line	L	S(S-DA	SH,1,bl	u100)	100% cyan blue very thir	n short dash line
DTOP		L	BH140	, ,	hyc=3or6		river/stream - dry, intermittent
						200	

Produc	t [Delin	FCODE	Attribute Condition	ii Ciiart	Description
DTOP		Α	BH140 sdr	hyc=3or6		river/stream - dry, intermittent
FFD		L	BH140	hyc=3or6		river/stream - dry, non-perennial
FFD		Α	BH140	hyc=3or6		river/stream - dry, non-perennial
UVM		L	BH140	hyc=3or6		river/stream - dry, intermittent
UVM		Α	BH140	hyc=3or6		river/stream - dry, intermittent
VITD		L	BH140	hyc=3or6		river/stream - dry, intermittent
VITD		Α	BH140	hyc=3or6		river/stream - dry, intermittent
VML0		L	BH140	hyc=3or6		river/stream - dry, intermittent
VML1		L	BH140	hyc=3or6		river/stream - dry, intermittent
VML1		Α	BH140	hyc=3or6		river/stream - dry, intermittent
VML2		L	BH140	hyc=3or6		river/stream - dry, intermittent
VML2		Α	BH140	hyc=3or6		river/stream - dry, intermittent
	ine		S(SOLD,3,CHM	•	magenta solid line	
DTOP		Α	GB005	,	•	airport/airfield
FFD		Α	GB005			airport/airfield
UVM		Α	GB005			airport/airfield
VML2		Α	GB005			airport/airfield
	ine	1.9	S(S-DASH,1,CF	HMGD)	magenta very thin short of	·
FFD		A	GB035		magana vary umi anare	heliport
UVM		Α	GB035			heliport
	ine		S(S-DASH,2,CH	HMCD)	magenta thin short dash	
UVM			FA015	IIIIOD)	magenta tiiii short dasii	firing range/gunnery range
	ino			ICD)	maganta thin doch line	ming range games, range
	ine	L	S(DASH,2,CHM FC021	,	magenta thin dash line	maritima limit haundanu dradaina
DNC DNC		L	FC021	mac=58 AND mbl=NULL mac=24 AND mbl=NULL		maritime limit boundary - dredging
DNC		L	FC021	mac=27or28or29 AND mbl=NULL		maritime limit boundary - turning area maritime limit boundary - submarine exercise, mine laying, firing range
DNC		L	FC021	mac=32or33 AND mbl=NULL		maritime limit boundary - oil field, gas field
DNC		L	FC021	mac=44 AND mbl=NULL		maritime limit boundary - deguassing
DNC		L	FC031	mac=5		maritime area - entry prohibited
DNC		L	FC031	mac=4		maritime area - mine danger
DTOP		A	AH050	mas 1		fortification
FFD		Α	GB065			seaplane base
UVM		Α	AH010			bastion/rampart/fortification
UVM		Α	AH050			fortification
VML1		Α	AH050			fortification
VML2			AH050			fortification
	ine		S(S-DASH,1,ae	ro bluo)	aero-blue very thin short	
	.1116	A	GB015	io-bide)	aero-blue very triili short	
DTOP			GB015 GB015			apron/hardstand
UVM		A A	GB015 GB015			apron/hardstand
VML2						apron/hardstand
	ine		S(DASH,2,DEP	CN)	depth gray thin dash line	
VITD			DA020			barren ground
	ine		S(DOTT,2,DEP	CN)	depth gray thin dotted lin	е
VITD		Α	SA030			exposed bedrock
4203 L	ine	LC			depth gray line w/ two da	ashes
VITD		Α	SA020			disturbed soil
4217 L	ine	LS	S(SOLD,1,med-	beige)	beige very thin solid line	
DTOP		Α	AJ030			feedlot/stockyard/holding pen
UVM		Α	AJ030			feedlot/stockyard/holding pen
VML2		Α	AJ030			feedlot/stockyard/holding pen

Produ	ıct	Delin	FCODE	Attribute Condition		Description
4220	Line	L	S(SOLD,2,med-	beige)	med-beige thin solid line	
DTOP		Α	BA060	3 ,	·	beach zone
UVM		Α	BA050			beach
UVM		Α	DA010	mcc=88		ground surface element - sand
VML0		Α	DA010	smc=88		ground surface element - sand
VML1		Α	DA010	mcc=88		ground surface element - sand
VML2		Α	DA010	mcc=88		ground surface element - sand
4230	Area	Α	Р		yellow-green squares in	grid patt fill
DTOP		Α	EA030			nursery
UVM		Α	EA030			nursery
VML0		Α	EA030			nursery
VML2		Α	EA030			nursery
4236	Line	L	S(SOLD,3,med-	beige)	beige solid line	
VITD		Α	BA030			island
VITD		Α	DA010	stp<>1and<>2and<>3and<>4and and<>9	<>5and<>6and<>7and<>8	ground surface element - silts, clays, evaporites, other
4240	Line	L	S(SOLD,2,CHR	ED)	red solid thin line	
DTOP		Α	AQ135			vehicle stopping area/rest area
DTOP		Α	AQ140			vehicle storage/parking area
UVM		Α	AQ140			vehicle storage/parking area
VML2		Α	AQ135			vehicle stopping area/rest area
VML2		Α	AQ140			vehicle storage/parking area
4243	Area	Α	C(DEPSC)		depth dk gray solid fill	
DTOP		Α	AL020 ⇔pop			built-up area
DTOP		Α	AL105 ⇔pop			settlement
DTOP		Α	AL135 ⇔pop			native settlement
4248	Area	Α	Р		It gray stipple dot patt fill	
DTOP		Α	DA010	smc=84		ground surface element - rocky
4249	Area	Α	Р		black x patt fill	
DTOP		Α	DB145			miscellaneous obstacle
UVM		Α	DB030			cave
4259	Line	L	S(DASH,2,med-	-beige)	beige thin dash line	
VITD		Α	DA010	stp=1or2or3or4		ground surface element - gravels
4262	Line	L:	S(DASH,2,med-	-purple)	purple thin dash line	
DTOP		Α	AQ116			pumping station
UVM		Α	AQ116			pumping station
VML2		Α	AQ116			pumping station
4265	Line	L	S(SOLD,2,blue)		basic blue thin solid line	
FFD		Α	BH020	hyc<>8		canal - non-perennial, dry, unknown
UVM		Α	BH020	exs<>32 OR hyc<>8		canal - not navigable or not perennial
VITD		Α	BH020	hyc<>8		canal - not perennial
VITD		Α	BH020	hyc=8		canal - perennial
VITD		Α	SA010			common open water
VML2		Α	BH020	exs<>32 OR hyc<>8		canal - not navigable or not perennial
4266	Line	L	S(SOLD,1,blue)		basic blue very thin solid	line
DTOP		L	BH010	loc=25		aqueduct - elevated
FFD		L	BH010	loc=25		aqueduct - elevated
UVM		L	BH010	loc=25		aqueduct - elevated
UVM		Α	BH075			fountain
VML1		L	BH010	loc=25		aqueduct - elevated
VML2		L	BH010	loc=25		aqueduct - elevated

Produ	ıct	Delin	FCODE	Attribute Condition	Description
4279	Line	1.	S(S-DASH	I,2,NINFO)	nav orange thin short dash line
DTOP		A	AK040	,,_,, 0)	athletic field
DTOP		Α	AK090		fairgrounds
DTOP		Α	AK100		golf course
UVM		Α	AK040		athletic field
UVM		Α	AK070		drive in theater
UVM		Α	AK090		fairgrounds
UVM		Α	AK100		golf course
VML0		Α	AK040		athletic field
VML2		Α	AK040		athletic field
VML2		Α	AK070		drive in theater
VML2		Α	AK090		fairgrounds
VML2		A	AK100		golf course
					•
4289	Area		·P		basic blue stipple dot patt fill
DTOP		Α	BH160		sebkha
DTOP		Α	BJ080		polar ice
UVM		Α	BH160		sebkha
VML0		Α	BJ080		polar ice
VML1		Α	BH160		sebkha
VML1		Α	BJ080		polar ice
VML2		Α	BH160		sebkha
VML2		Α	BJ080		polar ice
4303	Area	Α	۱P		100% cyan blue rt diag line patt fill
DTOP		Α	BH040		filtration beds/aeration beds
FFD		Α	BH040		filtration beds/aeration beds
UVM		Α	BH040		filtration beds/aeration beds
VML1		Α	BH040		filtration beds/aeration beds
VML2		Α	BH040		filtration beds/aeration beds
4304	Line	L	S(SOLD,1	,med-red-brown)	red brown very very thin solid line
FFD		L	CA010	hqc=2	contour line (land) - intermediate
UVM		L	CA010	mcc<>103 AND hqc=2	contour line (land) - intermediate
VML0		L	CA010	hqc=0or2	contour line (land) - intermediate unknown
VML2		L	CA010	mcc<>103 AND hqc=2	contour line (land) - intermediate
4305	Line	L	С		red brown very very thin line w/ tick marks
FFD		L	CA010	hqc=6	contour line (land) - intermediate depression
UVM		L	CA010	mcc<>103 AND hqc=6	contour line (land) - intermediate depression
VML0		L	CA010	hqc=6	contour line (land) - depression intermediate
VML2		L	CA010	mcc<>103 AND hqc=6or9	contour line (land) - intermediate depression mound
4306	Line	L	S(L-DASH	l,1,med-red-brown)	red brown very thin long dash line
UVM		L	CA010	mcc<>103 AND hqc=7	contour line (land) - index approximate
VML2		L	CA010	mcc<>103 AND hqc=7	contour line (land) - index approximate
4307	Line	L	S(L-DASH	l,1,med-red-brown)	red brown very very thin long dash line
UVM		L	CA010	mcc<>103 AND hqc=12	contour line (land) - intermediate approximate
VML0		L	CA010	hqc=12	contour line (land) - intermediate approximate
VML2		L	CA010	mcc<>103 AND hqc=12	contour line (land) - intermediate approximate
4308	Line	L	S(S-DASH	I,1,med-red-brown)	red brown very very thin short dash line
UVM		L	CA010	mcc<>103 AND hgc=14	contour line (land) - supplementary 1/4
VML2		L	CA010	mcc<>103 AND hgc=14	contour line (land) - supplementary 1/4
	Lina	L		1007.11.2 1140 11	
4309	Line			h	red brown vy vy thin long dash line w/ ticks
VML0		L	CA010	hqc=18	contour line (land) - intermediate depression approx

Produ	ct	Delin	FCODE	Attribute Condition		Description
4310	Line	L	3		red brown very vy thin da	ash line w/ tick marks
VML0		L	CA010	hqc=22or23		contour line (land) - supplemental depression
4311	Line	LS	S(SOLD,1,blu	100)	100% cyan very thin blue	e solid line
UVM		L	CA010	mcc=103 AND hqc=0or1	, ,	contour line (snow\ice) - index unknown
VML2		L	CA010	mcc=103 AND hqc=0or1		contour line (snow\ice) - index unknown
4312	Line	LS	S(SOLD,1,blu	100)	100% cyan blue very ver	ry thin solid line
UVM		L	CA010	mcc=103 AND hqc=2		contour line (snow\ice) - intermediate
VML2		L	CA010	mcc=103 AND hqc=2		contour line (snow\ice) - intermediate
4313	Line	1.9	S(DASH,1,blu	100)	100% cyan blue very ver	v thin dash line
UVM	LIIIC	L	CA010	mcc=103 AND hqc=3	10070 Oyun bide very ver	contour line (snow\ice) - supplementary 1/2
VML2		Ĺ	CA010	mcc=103 AND hqc=3or4or13		contour line (snow\ice) - supplementary 1/2, approx, form lines, approx
4314	Line	L	0		100% cyan blue vy thin l	ine w/ ticks on inside
UVM		L	CA010	mcc=103 AND hqc=5		contour line (snow\ice) - index depression
VML2		L	CA010	mcc=103 AND hqc=5or8		contour line (snow\ice) - index depression mound
4315	Line	L	С		100% cyan blue very ver	y thin line w/ ticks
UVM		L	CA010	mcc=103 AND hqc=6		contour line (snow\ice) - intermediate depression
VML2		L	CA010	mcc=103 AND hqc=6or9		contour line (snow\ice) - intermediate depression mound
4316	Line	LS	S(L-DASH,1,b	lu100)	100% cyan blue very thir	n long dash line
UVM		L	CA010	mcc=103 AND hgc=7	,	contour line (snow\ice) - index approximate
VML2		L	CA010	mcc=103 AND hqc=7		contour line (snow\ice) - index approximate
4317	Line	1.9	S(L-DASH,1,b	Ju100)	100% cyan blue very ver	v thin long dash line
UVM		L	CA010	mcc=103 AND hqc=12	10070 by an blac very ver	contour line (snow\ice) - intermediate approximate
VML2		L	CA010	mcc=103 AND hqc=12		contour line (snow\ice) - intermediate approximate
4318	Line	1.9	S(S-DASH,1,b		100% cyan blue very ver	
UVM	Liiio	L	CA010	mcc=103 AND hqc=14	10070 Gyan Sido Voly Vol	contour line (snow\ice) - supplementary 1/4
VML2		L	CA010	mcc=103 AND hqc=14		contour line (snow\ice) - supplementary 1/4
4319	Line	1.0	S(DASH,3,CH		brown dash line	, , , , ,
UVM	LITIC	L	AP030	wtc=1 AND exs<>28 AND ltn>=2 rst=2or3		road - non-operational, loose surface, no median
VML1		L	AP030	wtc=1 AND exs<>28 AND ltn>=2 rst=2or3	AND med<>1 AND	road - non-operational, loose surface, no median
VML2		L	AP030	wtc=1 AND exs<>28 AND ltn>=2 rst=2or3	AND med<>1 AND	road - non-operational, loose surface, no median
4320	Line	L	C		brown double solid thin l	ine
DTOP		L	AP030	wtc=1 AND exs=28 AND med=1		road - operational, loose surface, with median
FFD		L	AP030	wtc=1 AND exs=28 AND med=1		road - operational, loose surface, median
UVM		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	AND med=1 AND rst=2or3	road - operational, loose surface, with median
VITD		L	AP030	wtc=1 AND exs=1 AND fco=5or6	AND rst=2	road - operational, loose surface, median
VML1		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	AND med=1 AND rst=2or3	road - operational, loose surface, median
VML2		L	AP030	wtc=1 AND exs=28 AND ltn>=2 A	AND med=1 AND rst=2or3	road - operational, loose surface, median
4321	Line	L	3		brown double dash thin l	ine
DTOP		L	AP030	wtc=1 AND exs<>28 AND med=1	AND rst=2	road - non-operational, loose surface, with median
FFD		L	AP030	wtc=1 AND exs<>28 AND med=1	AND rst=2	road - non-operational, loose surface, with median
UVM		L	AP030	wtc=1 AND exs<>28 AND ltn>=2	AND med=1 AND rst=2or3	road - non-operational, loose surface, with median
VITD		L	AP030	wtc=1 AND exs<>1 AND fco=5or	6 AND rst=2	road - non-operational, loose surface, with median
VML1		L	AP030	wtc=1 AND exs<>28 AND ltn>=2		road - non-operational, loose surface, with median
VML2		L	AP030	wtc=1 AND exs<>28 AND ltn>=2	AND med=1 AND rst=2or3	road - non-operational, loose surface, with median
4325	Point	t S	Y(RDOSTA02	!) for pillar bouy	lg magenta cir	
DNC		Р	BC020	nst=1or4or5or17or41or51or53 AN	ND ssc=10	buoy - pillar; radio navigation system

Product Delin FCODE Attribute Condition Description

4326	Point		SY(RTPBC	CN02) for pillar bouy	lg magenta dashed cir	
DNC		Р	BC020	nst=10or54 AND ssc=10		buoy - pillar; radar navigation system

Symbol to Product Cross-Reference Simplified

			Sili	притиеа	
0001	Point	SY(PRDINS02)		feature brown mine symb	bol
DNC		P AA010			mine/quarry
0002	Point	SY(BUISGL11)		feature brown filled squa	re w/ black outline
DNC		P AD030			substation/transformer yard
DNC		P AK160			stadium/amphitheater
DNC		P AL015	bfc=81 AND sta=0or2or3or6or11		building - maritime station
DNC		P AL018			building superstructure addition
DNC		P AL200	loc=22 AND vrr=1		ruins - offshore, does not cover
DNC		P AL200	loc=8		ruins - on ground surface
DNC		P AQ116			pumping station
0003	Point	SY(CHIMNY11)		black chimney symbol	
DNC		P AF010			chimney/smokestack
0004	Point	SY(TOWERS03)		black tower symbol	
DNC		P AF030			cooling tower
DNC		P AL240			tower (non-communication)
DNC		P AM030			grain elevator
DNC		P AQ060			control tower
DNC		P AT080			communication tower
0005	Point	SY(CRANES01)		feature brown crane sym	bol
DNC		P AF040			crane
0006	Point	SY(FLASTK11)		black flare stack symbol	
DNC		P AF070			flare pipe
0007	Point	SY(FORSTC11)		black square	
DNC		P AH010		·	bastion/rampart/fortification
DNC		P AH050			fortification
8000	Point	SY(WNDMIL12)		black sm cir w/ X on top	
DNC		P AJ050			windmill
0009	Point	SY(POSGEN01)		feature brown dot inside	cir
DNC		P BC010	nst=45		beacon - radar station
DNC		P BC020	nst=45		buoy - radar station
DNC		P BC040	nst=45		light - radar station
DNC		P BC070	nst=45		light vessel/lightship - radar station
0010	Point	SY(BUIREL13)		black 'iron cross'	
DNC		P AL015	bfc=7 AND hwt=0or2or3or4or7or2	2	building - house of worship
0011	Point	SY(BUIREL14)		black X inscribed in recta	angle
DNC		P AL015	bfc=7 AND hwt=11or14or15or16o	r20or21	building - house of worship
0012	Point	SY(BUIREL15)		black mosque/minaret w/	dot in circle
DNC		P AL015	bfc=7 AND hwt=5or6or9	,	building - house of worship
0013	Point	SY(CGUSTA02)		It magenta CG in rectang	·
DNC	· Jiiit	P AL015	bfc=81 AND sta=1	agoma oo iii roolang	building - maritime station
0014	Point	SY(RSCSTA02)		black filled diamond cntre	-
DNC	Ollit	P AL015	bfc=81 AND sta=5	BIGGN IIIICG GIGITIOTIG CHILL	building - maritime station
	Doint		510 517111D 5102-0	It maganta CC in read-	
0015	Point	SY(SISTAT02) P AL015	bfo=91 AND	It magenta SS in rectang	, ,
DNC		P AL015	bfc=81 AND sta<>0and<>1and<>2and<>3and	<>5and<>6and<>11	building - maritime station
DNC		P BG020			tide gauge
0016	Point	SY(BUAARE02)		feature brown filled cir	
DNC	,	P AL020			built-up area
					•

Produ	ict E	elin FCODE	Attribute Condition	I	Description
0017	Point	SY(CAIRNS11)		black three stacked sm cir	
DNC		P AL025		(cairn
0018	Point	SY(NOTBRD11)		black rectange above inve	erted T
DNC		P AL050		(display sign
0019	Point	SY(FLGSTF01)		feature brown flag symbol	
DNC		P AL073		f	flagstaff/flagpole
0020	Point	SY(MONUMT12)		black hatched trapazoid	
DNC		P AL130		r	monument
0021	Point	SY(SILBUI11)		feature brown filled cir w/ k	black outline
DNC		P AM020		Ç	grain bin/silo
0022	Point	SY(TNKCON12)		black cir	
DNC		P AM070		t	ank
0023	Point	SY(TOWERS12)		black water tower symbol	
DNC		P AM080		•	water tower
0024	Point	SY(POSGEN03)		black dot inside cir	
DNC		P AK020			amusement park attraction
DNC		P AK080			drive in theater screen
DNC		P AQ020		á	aerial cableway pylon/ski pylon
DNC		P AT040		ŗ	power transmission pylon
0026	Point	SY(MSTCON14)		black tall slender triangle v	w/ cir at bottom
DNC		P AQ110		r	mooring mast
0027	Point	SY(QUARRY01)		feature brown mine symbo	ol inside circle
DNC		A AA010		r	mine/quarry
0028	Point	SY(DOMES011)	+ SY(RDOSTA02)	black dome inside lg mage	enta circle
DNC		P AT045	ssc=87	r	radar transmitter - dome
0029	Point	SY(RASCAN11)+	+ SY(RDOSTA02)	black rectangle below T in	lg magenta cir
DNC		P AT045	ssc=108	r	radar transmitter - scanner
0030	Point	SY(MSTCON14)	+ SY(RD0STA02)	black triangle w/ in lg mag	enta cir
DNC		P AT045	ssc=60	r	radar transmitter - mast
0031	Point	SY(TOWERS03)	+ SY(RDOSTA02)	black tower inside lg mage	enta cir
DNC		P AT045	ssc=107	r	radar transmitter - tower
0032	Point	SY(BRTHNO01)		magenta circle	
DNC		P BB020		ŀ	berth
0033	Point	SY(BUISGL11)+	SY(RDOSTA02)	feature brown fill sqr black	otln in lg mgnta cir
DNC		P AT050	,	•	communication building
0035	Point	SY(LNDARE01)		It brown sm filled cir w/ gra	ay outline
DNC		P BA030		•	sland
0036	Point	SY(ACHARE02)		magenta anchor	
DNC		P BB010	mac<>12	*	anchorage - not anchoring berth
	Point	SY(ACHBRT07)		magenta anchor w/ sm cir	, , ,
DNC		P BB010	mac=12	-	anchorage - anchoring berth
DNC		A BB010	mac=12		anchorage - anchoring berth
0038	Point	SY(MORFAC03)		It brown filled square w/ bl	ack outline
DNC		P BB080		•	dolphin
		P BB160			mooring ring
DNC		. BB100		'	gg
	Point	SY(RDOCAL02)		traffic magenta cir w/ 1 coi	

Prod	uct	Delin	FCODE	Attribute Condition		Description
DNC DNC DNC		P P P	BB050 BB050 BB050	df3<>0 df1<>0 AND df2=0 df3<>0		calling-in point - more than two-way traffic, 3rd direction calling-in point - one way traffic calling-in point - more than two-way traffic, 1st direction
DNC		Р	BB050	df3<>0		calling-in point - more than two-way traffic, 2nd direction
0040	Point		Y(RDOCAL03)		traffic magenta cir w/ 2 c	ones
DNC		Р	BB050	df2<>0 AND df3=0		calling-in point - two way traffic
0041	Point	: S'	Y(RCLDEF01)		magenta cir w/ 2 cones a	and 2?
DNC		Р	BB050	df1=0		calling-in point - direction of traffic unknown
0042	Point	s'	Y(HRBFAC09)		magenta fish w/ arcs abo	ove and below
DNC		Р	BB105			fishing harbor
0043	Point	: S'	Y(SMCFAC02)		magenta yacht inside Ig	cir
DNC		Р	BB150			landing place
DNC		Α	BB150			landing place
0045	Point	: S'	Y(MARCUL02)		gray fish inside net	
DNC		Р	BB180			oyster bed/mussel bed
0046	Point	S'	Y(BRIDGE01)		magenta small circle insi	ide circle
DNC	. 0	Α	AQ040	bsc=12 OR bot=4or10or11	magoma oman onoro mor	bridge/overpass/viaduct
0051	Point		Y(PILPNT02)	333 12 31 (33) 13 13 13 11	black filled sm cir	J. Lagoro To. Passo Madast
DNC	FUIII	P	BB030		DIACK IIIIEU SIII CII	bollard
DNC		Р	BC020	btc=35		buoy - articulated light (base)
DNC		P	BC040	5.0 00		light - base symbol
DNC		Р	BC080			perches/stakes
DNC		Р	BD100			pile/piling/post
0052	Point	: S	Y(OBSTRN01)		depth med blue fill cir w/	black dotted outline
DNC		Р	AL200	loc=22 AND vrr=4 AND hdp=0	,	ruins - offshore, submerged - depth unknown
DNC		Р	BD000	hdp=0		underwater danger/hazard - depth unknown
DNC		Р	BD020	vrr=4 AND hdp=0		crib - submerged; depth unknown
DNC		Р	BD030			discolored water
DNC		Р	BD140	vrr=4 AND hdp=0		snags/stumps - submergerd; depth unknown
0053	Point	S'	Y(DANGER01)		depth med blue fill lg ove	al w/ black dot outline
DNC		Р	AL200	loc=22 AND vrr=4 AND hdp>0and	<=20	ruins - offshore, submerged - depth 20m or less
DNC		Р	BD000	hdp>0and<=20		underwater danger/hazard - depth 20m or less
DNC		Р	BD020	vrr=4 AND hdp>0and<=20		crib - submerged; depth 20m or less
DNC DNC		P P	BD130 BD140	vrr=4 AND hdp>0and<=20		rock - submerged; depth 20m or less
DNC		P	BD180	vrr=4 AND hdp>0and<=20 vrr=4 AND hdp>0and<=20		snags/stumps - submerged; depth 20m or less wreck - submerged; depth 20m or less
	Doint			VII—4 7 IND Hap- balla 4—20	la block aval w/ datted a	<u> </u>
0054	Point	P	Y(DANGER02) AL200	loo=22 AND vrr=4 AND bdp>20	Ig black oval w/ dotted or	
DNC DNC		Р	BD000	loc=22 AND vrr=4 AND hdp>20 hdp>20		ruins - offshore, submerged - depth greater than 20m underwater danger/hazard - depth greater than 20m
DNC		Р	BD020	vrr=4 AND hdp>20		crib - submerged; depth greater than 20m
DNC		Р	BD130	vrr=4 AND hdp>20		rock - submerged; depth greater than 20m
DNC		Р	BD140	vrr=4 AND hdp>20		snags/stumps - submerged; depth greater than 20m
DNC		Р	BD180	vrr=4 AND hdp>20		wreck - submerged; depth greater than 20m
0055	Point	S'	Y(OBSTRN03)		yellow-green solid circle	w/ black dot outline
DNC		Р	AL200	loc=22 AND vrr=8		ruins - offshore, covers and uncovers
DNC		Р	BD020	vrr=8 AND hdp=NULL		crib - covers and uncovers; depth null
DNC		Р	BD140	vrr=8 AND hdp=NULL		snags/stumps - covers and uncovers; depth null
0056	Point	S'	Y(WATTUR02)		gray waves symbol	
DNC		Р	BD010			breakers
DNC		Р	BD040			eddies

Prod	uct	Delin	FCODE	Attribute Condition	Description
DNC DNC DNC		P A A	BD080 BD010 BD040 BD080		overfalls/tide rips breakers eddies
DNC 0057	Point		Y(OBSTRN11)		overfalls/tide rips It brown square with dk gray outline
DNC	Politi	P	BD020	vrr=1 AND hdp=NULL	crib - partly submerged/dry; depth null
DNC		Р	BD140	vrr=1 AND hdp=NULL	snags/stumps - partly submergerd/dry; depth null
0058	Point	: S	Y(LOWACC01)		black leader line w/ question mark
DNC		Р	BD000	acc<>1	underwater danger/hazard - not accurate
DNC		P -	BD020	acc<>1	crib - not accurate
DNC		Р	BD030	acc<>1	discolored water - not accurate
DNC		Р	BD130	acc<>1	rock - not accurate
DNC		Р	BD140	acc<>1	snags/stumps - not accurate
DNC		P A	BD180	acc<>1	wreck - not accurate
DNC DNC		A	BD000 BD020	acc<>1 acc<>1	underwater danger/hazard - not accurate crib - not accurate
DNC		A	BD030	acc<>1	discolored water - not accurate
DNC		Α	BD100	acc<>1	pile/piling/post - not accurate
DNC		Α	BD120	vrr<>8 AND acc<>1	reef - not covers and uncovers, not accurate
DNC		Α	BD140	acc<>1	snags/stumps - not accurate
0059	Point	: S	Y(FOULGND1)		gray pound (#) symbol
DNC		Р	BD050		foul ground
DNC		Α	BD050		foul ground
0060	Point	: S	Y(WEDKLP03)		gray kelp symbol
DNC		Р	BD060		kelp/seaweed
DNC		Α	BD060		kelp/seaweed
0061	Point	: S	Y(OFSPLF01)		black dot inside square
DNC		Р	BD110		platform
0062	Point	: S	Y(UWTROC03)		black cross in dotted cir, depth med blue fill
DNC		Р	BD130	vrr=4 AND hdp=0	rock - submerged; depth unknown
0063	Point	: S	Y(UWTROC04)		black 6 point asterisk
DNC		Р	BD130	hdp=NULL	rock - depth null
0064	Point	S	Y(WRECKS01)		gray wreck symbol
DNC		P	BD180	hdp=NULL AND vrr=1or2or8	wreck - not submerged; depth null
DNC		Р	BD180	loc<>4 AND hdp=NULL	wreck - showing mast/hull/superstructure; depth null
0065	Point	S	Y(WRECKS05)	•	blck bar 3 ticks in dotted depth med blue oval
DNC	. 0	. Р	BD180	hdp=NULL AND vrr=0	wreck - unknown; depth null
DNC		Р	BD180	vrr=4 AND soh=1 AND hdp=0	wreck - submerged; dangerous; depth unknown
0066	Point		Y(WRECKS04)	·	black horiz bar w/3 ticks
DNC	1 01111	. Р	BD180	vrr=4 AND soh=2 AND hdp=0	wreck - submerged; not dangerous; depth unknown
	Doint			7445 0011 27445 Hup-0	
0071 DNC	Point	l S	Y(CURDEF01) BG010	cur=0 OR dof=0	gray arrow w/ 2 feathers and 2 ?
	Б.,			Cui -U OR UUI -U	current flow - general; direction unknown
0072	Point		Y(CURENT01)	0.5440	gray arrow w/ two feathers
DNC		Р	BG010	cur=3or5 AND dof<>0	current flow - general, ocean; direction known
0073	Point		Y(EBBSTR01)		gray arrow w/ no feathers
DNC		Р	BG010	cur=1 AND dof<>0	current flow - ebb; direction known
0074	Point		Y(FLDSTR01)		gray arrow w/ one feather
DNC		Р	BG010	cur=2 AND dof<>0	current flow - flood; direction known

Prod	uct	Delin FCODE	Attribute Condition	Description
0076	Point	SY(TIDSTR01)		gray diamond
DNC		P BG030		tide data point
0077	Point	SY(HILTOP11)		black radiating cones
DNC		P BJ060		ice peak/nunatak
0078	Point	SY(POSGEN04)		black sm cir
DNC		P CA030		spot elevation
0079	Point	SY(TREPNT04)		feature brown side view of stylised tree
DNC		P EC030		trees
0080	Point	SY(PILBOP02)		magenta solid filled diamond inside cir
DNC	1 01110	P FC021	mac=48	maritime limit boundary - pilot boarding
DNC		A FC021	mac=48	maritime limit boundary - pilot boarding
0081	Point	SY(INFARE51)		It magenta square w/ I
DNC		A AL005		animal sanctuary
DNC		A FC021	mac=49	maritime limit boundary - cargo Xshipment
DNC		A FC021	mac=30or35	maritime limit boundary - dumping, explosive dumping
DNC		A FC021	mac=31	maritime limit boundary - incineration
DNC		A FC036	mac=21or23or61	restricted area - pipelines, sewer
DNC		A FC036	mac=45or46	restricted area - outfall, intake
0082	Point	SY(ENTRES51)		traffic It magenta cir w/ bar
DNC		P FC031	mac=5	maritime area - entry prohibited
DNC		P FC036	mac=43	restricted area - area to be avoided
DNC DNC		A FC031 A FC036	mac=5 mac=43	maritime area - entry prohibited restricted area - area to be avoided
	Daint		111aC-43	
0083	Point	SY(TSSRON51) P FC031	man=10	traffic It magenta arc w/ arrowhead
DNC DNC		A FC031	mac=40 mac=40	maritime area - roundabout zone (TSS) maritime area - roundabout zone (TSS)
	Doint		mao 10	
0084 DNC	Point	SY(CHINFO06) P FC021	mac<>48	magenta cir w/ ! Inside maritime limit boundary - not pilot boarding
DNC		P FC031	mac=0	maritime area - unknown
0085	Point	SY(FSHRES51)		It magenta fish w/ intersecting diag line
DNC	1 Ollic	P FC036	mac=22	restricted area - fishing prohibited
DNC		A FC036	mac=22	restricted area - fishing prohibited
0086	Point	SY(ACHRES51)		It magenta open anchor w/ intrsctng diag line
DNC		P FC036	mac=15	restricted area - anchoring prohibited
DNC		A FC036	mac=15	restricted area - anchoring prohibited
0087	Point	SY(RSRDEF51)		traffic It magenta ! In Ig cir w/ magenta ?
DNC		P FC031	mac=2	maritime area - dredged area
DNC		P FC036	mac=0or999	restricted area - unknown or other
DNC		A FC036	mac=0or999	restricted area - to be avoided, other
0088	Point	SY(TSSLPT51)		traffic magenta filled arrow
DNC		P FC041		traffic separation scheme (TSS)
0089	Point	SY(RTLDEF51)		traffic magenta dashed arrow w/ 2 mgnta ?'s
DNC		P FC165	dof=0	route (maritime) - direction unknown
0090	Point	SY(AIRARE02)		feature brown outline of plane inside lg cir
DNC		P GB005		airport/airfield
0091	Point	SY(RECDEF51)		gray ? inside angle brackets inside dashes
DNC		A FC170		safety fairway
0092	Point	SY(PRCARE51)		traffic It magenta ! Inside triangle
DNC		A FC021	mac=42	maritime limit boundary - precautionary
2			·=	

Prod	uct	Delin	FCODE	Attribute Condition		Description
0093	Point	S	Y(CTYARE51)		traffic It magenta ! Inside	lg circle
DNC		Р	FC031	mac=4		maritime area - mine danger area
DNC		Р	FC036	mac=37		restricted area - safety zone
DNC		Α	FC021	mac=44		maritime limit boundary - deguassing
DNC		Α	FC021	mac=58		maritime limit boundary - dredging area
DNC		Α	FC021	mac=27or28or29		maritime limit boundary - submarine exercise, mine laying, firing range
DNC		Α	FC021	mac=24		maritime limit boundary - turning area
DNC		Α	FC021	mac=32or33		maritime limit boundary - oil field, gas field
DNC		Α	FC031	mac=4		maritime area - mine danger
DNC		Α	FC036	mac=37		restricted area - safety zone
DNC		Α	GB070			seaplane landing/seaplane take-off area
0094	Point		Y(CBLARE51)		It magenta angled line	
DNC		Α	FC036	mac=20		restricted area - cables
0095	Point	S	Y(SWPARE51)		It gray under bar w/ upwa	ard bar on ends
DNC		Α	FC177			swept area
0096	Point	S	Y(CHINFO07)		magenta square w/ i	
DNC		Р	AQ080			ferry site
	Daint				Aug Effic II was a superior I line into	
0097	Point		Y(CTNARE51)		traffic It magenta! Inside	•
DNC		A	FC021	mac=0or999		maritime limit boundary - unknown, other
DNC DNC		A A	FC031 FC041	mac=0or9 tsp=6or7		maritime area - unknown, work in progress traffic separation scheme (TSS) - inbound or outbound area
DNC		Α	FC165	rtt=0		route (maritime) - use unknown
	D · ·			111-0		
0098	Point		Y(TWRDEF51)		traffic magenta dash dbl	
DNC		Α	FC165	rtt=11		route (maritime) - 2-way
0101	Point		Y(BCNSPP21)		yellow rectangle w/ outlin	ne black outline
DNC		Р	BC010			beacon - base
0150	Point	S	Y		yellow-green filled sm cir	w/ gray outline
DNC		Р	BA020			foreshore
0152	Point	S	Y(DAYSQR01)		magenta box w/ dot and	line below
DNC		Р	BC055		•	marker
0154	Point	S	v		magenta cir,arrows pting	out represent only
DNC	1 Ollit	P	BG040		magerita cii,arrows pting	current diagram
0311	Point	S	Y(BOYMOR11)		black mooring/installation	-
DNC	· OIII	P	BB170		2.30K mooning/motanation	offshore loading facility
DNC		Р	BC020	btc=7 AND ssc=7		buoy - mooring;can
DNC		Р	BC020	btc=7 AND ssc<>1and<>7		buoy - mooring; not barrel, not can
DNC		P	BC020	btc=7 AND ssc=1		buoy - mooring; barrel
	Doint				black superbusy simplif	
0312	Point		Y(BOYSUP02) BC020	hto-4	black superbuoy - simplif	
DNC		P P	BC020 BC020	btc=4		buoy - LANBY
DNC DNC		Р	BC020 BC020	btc=10 btc=0 AND ssc=73		buoy - ODAS buoy - superbuoy; type unknown
	Deint			DIO-07114D 330-10	vollow sirals/ stlin - t-l	· · · · · · · · · · · · · · · · · · ·
0313	Point		Y(BOYSPP11)	ht0 AND7	yellow circle w/ outline bl	
DNC		P	BC020	btc=0 AND ssc=7		buoy - can; type unknown
DNC		P P	BC020	btc=0 AND ssc=0or85or999		buoy - default; type unknown
DNC		P P	BC020	btc=0 AND ssc=1		buoy - barrel; type unknown
DNC		P P	BC020	btc=0 AND ssc=10		buoy - pillar; type unknown
DNC		P P	BC020 BC020	btc=0 AND ssc=16		buoy - spar; type unknown
DNC		P		btc=0 AND ssc=17		buoy - sphere; type unknown
DNC		۲	BC020	btc=0 AND ssc=6		buoy - conical; type unknown

Produ	uct	Delin	FCODE	Attribute Condition		Description
0401	Point	S	Y(FOGSIG01) f	for navaids	It magenta arcs origin of	fset - maximum
DNC		Р	AL015	bfc=81 AND sta=5 AND sst<>16		building - maritime station (rescue), sound signal
DNC		Р	BC010	sst=1or2or3or4or6or9or14or15		beacon - sound signal
DNC		Р	BC020	sst=1or2or3or4or6or9or14or15		buoy - sound signal
DNC		Р	BC040	sst=1or2or3or4or6or9or14or15		light - sound signal
DNC		Р	BC070	sst=1or2or3or4or6or9or14or15		light vessel/lightship - sound signal
0402	Point	S	Y(FOGSIG01) f	for others	It magenta arcs origin off	set - minimum
DNC		Р	AL015	bfc=81 AND sta<>5 AND sst<>16	-	building - maritime station (not rescue), sound signal
DNC		P	BD110	sst<>16		platform - sound signal
0500	Doint	0			maganta flara	Francisco California
DNC	Point	P	Y(LIGHTDEF) BB170	cha=21	magenta flare	offebore leading facility, light
DNC		r P	BD110	cha=21		offshore loading facility - light platform - lighted
				CHA-21		plation - lighted
0501	Point		Y(LIGHTS01)		lights red flare	
DNC		Р	GA020			air obstruction light [DNC-specific]
0510	Point	S	Y(RADRFL03)		magenta arc w/ 5 ticks po	ointing upward
DNC		Р	BC010	ref=1		beacon - radar reflector present
DNC		Р	BC020	ref=1		buoy - radar reflector present
DNC		Р	BC040	ref=1		light - radar reflector present
DNC		Р	BC070	ref=1		light vessel/lightship - radar reflector present
0511	Point	S	Y(RDOSTA02)		lg magenta cir	
DNC		Р	AT045	ssc=0or999		radar transmitter - other, unknown
DNC		Р	BC010	nst=1or4or5or17or41or51or53		beacon - radio navigation system
DNC		Р	BC020	nst=1or4or5or17or41or51or53 AN	D ssc=10	buoy - pillar; radio navigation system
DNC		Р	BC020	nst=1or4or5or17or41or51or53 AN	D ssc<>10	buoy - non-pillar; radio navigation system
DNC		Р	BC040	nst=1or4or5or17or41or51or53		light - radio navigation system
DNC		P	BC070	nst=1or4or5or17or41or51or53		light vessel/lightship - radio navigation system
DNC		Р	GA035			navaids (aeronautical)
0512	Point	S	Y(RTPBCN02)		lg magenta dashed cir	
DNC		Р	BC010	nst=10or54		beacon - radar navigation system
DNC		Р	BC020	nst=10or54 AND ssc<>10		buoy - non-pillar; radar navigation system
DNC		P	BC020	nst=10or54 AND ssc=10		buoy - pillar; radar navigation system
DNC		P -	BC040	nst=10or54		light - radar navigation system
DNC		Р	BC070	nst=10or54		light vessel/lightship - radar navigation system
DNC		Р	BD110	nst=10or54		platform - radar navigation system
0515	Point	S	Y(LITFLT02)		black It float, simplified	
DNC		Р	BC020	btc=6		buoy - light float
0516	Point	S	Y(LITVES02)		black It vessel, simplified	1
DNC		Р	BC070			light vessel/lightship
0600	Line	L	S(SOLD,1,CHB	LK)	black very thin solid line	
DNC		L	AK020	,	•	amusement park attraction
DNC		L	AL070			fence
DNC		L	AL260			wall
DNC		L	BH020			canal
DNC		L	BH140			river/stream
DNC		L	BH210			inland shoreline
DNC		Α	AC030			settling basin/sludge pond
DNC		Α	AD010			power plant
DNC		Α	AD030			substation/transformer yard
DNC		Α	AH010			bastion/rampart/fortification
DNC		Α	AH050			fortification
DNC		Α	AK040			athletic field

Prod	uct	Delin	FCODE	Attribute Condition		Description
DNC		Α	AK160			stadium/amphitheater
DNC		Α	AL015			building
DNC		Α	AL030			cemetery
DNC		Α	AL200	loc=8		ruins - on ground surface
DNC		Α	AL200	loc=22 AND vrr=1		ruins - offshore, does not cover
DNC		Α	AM030			grain elevator
DNC		Α	AM070			tank
DNC		Α	AQ116			pumping station
DNC		Α	AT020			early warning radar site
DNC		Α	BH020			canal
DNC		Α	BH080			lake/pond
DNC		Α	BH130			reservoir
DNC		Α	BH140			river/stream
DNC		Α	GB005			airport/airfield
DNC		Α	GB055			runway
0604	Line	L	S(SOLD,1,LA	NDF)	feature brown very thin s	olid line
DNC		L	CA010			contour line (land)
DNC		Α	AL020			built-up area
DNC		Α	BB150			landing place
0605	Line	L	S(SOLD,2,LA	NDF)	feature brown thin solid la	ine
DNC		L	AK130			race track
DNC		L	AN010			railroad
DNC		L	AP020			interchange
DNC		L	AP030			road
0606	Line	L	S(SOLD,3,LA	NDF)	feature brown solid line	
DNC		L	GB055	·		runway
0607	Line	L	S(SOLD,4,LA	NDF)	feature brown thick solid	line
DNC		L	BI020	,		dam/weir
0608	Line	L	S(SOLD,1,DE	PCN)	depth gray very thin solid	l line
DNC		L	BA020	,		foreshore
DNC		L	BE010	acc=1 AND crv<>ssdc		depth curve - accurate; not equal ssdc
0609	Line	L	S(SOLD,2,DE		depth dk gray thin solid li	
DNC		L	BE010	acc=1 AND crv=ssdc	3.,	depth curve - accurate; equals ssdc
0610	Line	13	S(SOLD,3,CH	IGRD)	gray solid line	
DNC	LIIIC	L	AQ113	loc=25	gray cona mic	pipeline/pipe - above ground or over water
DNC		Ī	BH010	loc=25		aqueduct - elevated
DNC		L	BH120	100 20		rapids
0611	Line	13	S(SOLD,4,CH	IGRD)	gray thick solid line	
DNC	0	A	AQ040	bsc<>12 AND bot<>4and<>10and	• ,	bridge/overpass/viaduct
DNC		Α	AQ040	bsc=12 OR bot=4or10or11		bridge/overpass/viaduct
DNC		Α	AQ045	500 12 010 500 101100111		bridge span
0613	Line		S(DASH,2,DE	:PSC)	depth dk gray thin dash l	
DNC	LINE	L	BE010	acc=2 AND crv=ssdc	deptil uk gray tilli dasii l	depth curve - not accurate; equals ssdc
0614	Line		S(DASH,1,DE		depth gray very thin dash	
DNC	LIIIC	L L	BE010	acc=2 AND crv<>ssdc	deptil gray very tilli dasi	depth curve - not accurate; not equal ssdc
	1.50				mala mua sir in 1818	depart out ve - not accurate, not equal 5500
0615	Line		S(SOLD,3,CH	IVVHI)	pale green solid line	watarfall
DNC		L	BH180			waterfall
0620	Line		S(SOLD,6,TR		traffic It magenta very ve	
DNC		L	FC041	tsp=4		traffic separation scheme (TSS) - separation zone line

Prod	uct	Delin	FCODE	Attribute Condition		Description
0623	Line	L	S(SOLD,2,CS	STLN)	dk gray thin solid line	
DNC		L	BB040	vrr=1		breakwater/groyne - partly submerged at high water
DNC		L	BB140	vrr=1		jetty - partly submerged at high water
DNC		L	BB220	vrr=1		ramp (maritime) - partly submerged at high water
DNC		L	BB230			seawall
DNC		L	BB240	vrr=1		slipway/patent slip - partly submerged at high water
DNC		L	BI040			sluice gate
DNC		Α	BB040	vrr=1		breakwater/groyne - partly submerged at high water
DNC		Α	BB140	vrr=1		jetty - partly submerged at high water
DNC		Α	BB220	vrr=1		ramp (maritime) - partly submerged at high water
DNC		Α	BD020	vrr=1 AND hdp=NULL		crib - above surface
DNC		Α	BD100	vrr=1		pile/piling/post - does not cover
DNC		Α	BD140	vrr=1		snags/stumps - does not cover
DNC		Α	BD180	vrr=1 AND hdp=NULL		wreck - does not cover; depth null
DNC		Α	BI030	,		lock
0624	Line		S(DASH,1,LA	NDF)	feature brown very thin o	
DNC		A	AA010	,	,	mine/quarry
DNC		Α	AB000			disposal site/waste pile
DNC		Α	AB010			wrecking yard/scrap yard
DNC		Α	AC000			processing plant/treatment plant
DNC		Α	AM010			depot (storage)
DNC		Α	AM040			mineral pile
DNC		Α	EA040			orchard/plantation
DNC		Α	EA050			vineyards
DNC		Α	EC030	veg=19		trees - mangrove
DNC		Α	EC030	veg<>19		trees - not mangrove
0625	Line	L	S(SOLD,4,CS		dk gray thick solid line	g
DNC		L	BB170	,	3 1, 1 1 1 1	offshore loading facility
DNC		L	BB190			pier/wharf/quay
DNC		Α	BB170			offshore loading facility
DNC		Α	BB190			pier/wharf/quay
0626	Line	L	S(DASH,2,CS	STLN)	dk gray thin dash line	
DNC		L	BB040	vrr=4or8		breakwater/groyne - submerged, covers and uncovers
DNC		L	BB140	vrr=4or8		jetty - submerged, covers and uncovers
DNC		L	BB220	vrr=4or8		ramp (maritime) - submerged, covers and uncovers
DNC		L	BB240	vrr=4or8		slipway/patent slip - submerged, covers and uncovers
DNC		Α	AL200	loc=22 AND vrr=8		ruins - offshore, covers and uncovers
DNC		Α	BB040	vrr=4or8		breakwater/groyne - submerged, covers and uncovers
DNC		Α	BB140	vrr=4or8		jetty - submerged, covers and uncovers
DNC		Α	BB220	vrr=4or8		ramp (maritime) - submerged, covers and uncovers
DNC		Α	BD020	vrr=8 AND hdp=NULL		crib - covers and uncovers
DNC		Α	BD100	vrr=8		pile/piling/post - covers and uncovers
DNC		Α	BD140	vrr=8		snags/stumps - covers and uncovers
DNC		Α	BD180	vrr=8 AND hdp=NULL		wreck - covers and uncovers; depth null
0627	Line	L	S(SOLD,5,CH	IGRD)	gray very thick solid line	
DNC		L	AQ040	bsc<>12 AND bot<>4and<>10and		bridge/overpass/viaduct
DNC		L	AQ045			bridge span
0629	Line		S(DASH,2,Cl	,	gray thin dash line	
DNC		L	FC021	mac=56 AND mbl=NULL		maritime limit boundary - fish traps
DNC		L	FC021	mbl<>7and<>13 AND mac=NULL	•	maritime limit boundary - not clearing line
DNC		A	AL200	loc=22 AND vrr=4 AND hdp>20		ruins - offshore, submerged - depth greater than 20m
DNC		Α	BD000	hdp>20		underwater danger/hazard - depth greater than 20m

Prod	uct	Delin	FCODE	Attribute Condition		Description
DNC	_	Α	BD020	vrr=4 AND hdp>20		crib - submerged; depth greater than 20m
DNC		Α	BD120	vrr=4 AND hdp>20		reef - submerged, depth greater than 20m
DNC		Α	FC036	mac=45or46		restricted area - outfall, intake
0630	Line	L	S(DOTT,2,C	STLN)	dk gray thin dotted line	
DNC		Α	BD180	vrr=0or2 AND hdp=NULL		wreck - unknown; awash; depth null
DNC		Α	BD180	vrr=4 AND hdp=0		wreck - submerged; depth unknown
0631	Line	L	S(SOLD,2,CI	HGRD)	gray thin solid line	
DNC		L	FC021	mac=26 AND mbl=NULL		maritime limit boundary - unsurveyed
DNC		Α	BE010	cvl=99999		depth area; depth unknown
DNC		Α	FC021	mac=26		maritime limit boundary - unsurveyed
0632	Line	L	S(DASH,1,C	STLN)	dk gray very thin dash li	ine
DNC		L	BA010	slt=6or8		coastline/shoreline - mangrove, marsh
0633	Line	L	S(DASH,2,C	HGRF)	It gray thin dash line	
DNC		L	FC021	mac=57 AND mbl=NULL		maritime limit boundary - marine farm
0634	Line	L	S(DASH,1,CI	HMGD)	magenta very thin dash	line
DNC		L	FC021	mac=25 AND mbl=NULL	J y 22011	maritime limit boundary - spoil
DNC		L	FC021	mac=30or35 AND mbl=NULL		maritime limit boundary - dumping, explosive dumpin
DNC		L	GB070			seaplane landing/seaplane take-off area
DNC		Α	FC021	mac=25		maritime limit boundary - spoil
DNC		Α	FC021	mac=30or35		maritime limit boundary - dumping, explosive dumping
DNC		Α	GB070			seaplane landing/seaplane take-off area
0635	Line	L	S(DASH,1,CI	HMGF)	It magenta very thin das	sh line
DNC		L	FC021	mac=31 AND mbl=NULL		maritime limit boundary - incineration
DNC		L	FC021	mac=49 AND mbl=NULL		maritime limit boundary - cargo Xshipment
DNC		Α	FC021	mac=49		maritime limit boundary - cargo Xshipment
DNC		Α	FC021	mac=31		maritime limit boundary - incineration
0656	Line	L	S(DASH,1,C	HGRD)	gray very thin dash line	
DNC		L	AQ130			tunnel
DNC		L	BC100			leading line
DNC		L	FC021	mac=55 AND mbl=NULL		maritime limit boundary - fairway
DNC		L	FC021	mbl=13 AND mac=NULL		maritime limit boundary - clearing line
DNC		L L	FC100 FC177			measured distance line
DNC DNC		A	BB110			swept area fish traps/fish weirs
DNC		Α	BB115			gridiron
DNC		Α	BB180			oyster bed/mussel bed
DNC		Α	BD010			breakers
DNC		Α	BD040			eddies
DNC		Α	BD050			foul ground
DNC		Α	BD080			overfalls/tide rips
DNC		Α	BH050			fish hatchery/fish farm/marine farm
DNC		Α	BJ030			glacier
		Α	BJ065			ice shelf
DNC		Α	BJ100			snow field/ice field
DNC			FC021	mac=55		maritime limit boundary - fairway
DNC DNC		A				
DNC DNC DNC		Α	FC021	mac=56		maritime limit boundary - fish traps
DNC DNC DNC DNC		A A	FC021 FC021	mac=56 mac=57		maritime limit boundary - marine farm
DNC DNC DNC DNC DNC		A A A	FC021 FC021 FC170			maritime limit boundary - marine farm safety fairway
DNC DNC DNC DNC DNC		A A A	FC021 FC021 FC170 FC177			maritime limit boundary - marine farm safety fairway swept area
DNC DNC DNC DNC DNC	Line	A A A A	FC021 FC021 FC170	mac=57	gray thick dash line	maritime limit boundary - marine farm safety fairway

Produ	uct	Delin	FCODE	Attribute Condition		Description
DNC		L	AT030			power transmission line
DNC		L	AT060			telephone line/telegraph line
0661	Line	LS	S(DASH,3,TRF	CD)	traffic magenta dash line	
DNC		Α	FC165	rtt=4		route (maritime) - deep water
0662	Line	1.0	S(DASH,1,TRF	CD)	traffic magenta very thin	
DNC	LIIIC	A	FC031	mac=41	tranic magenta very timi	maritime area - inshore traffic zone (TSS)
0663	Line		S(DASH,2,TRF	•	traffic magenta thin dash	
DNC		L	FC021	mac=0or999 AND mbl=NULL		maritime limit boundary - unknown, other
DNC		L L	FC021 FC031	mac=42 AND mbl=NULL		maritime limit boundary - precautionary
DNC		L	FC130	mac=0or9		maritime area - unknown, work in progress
DNC DNC		A	FC021	mac=42		radar reference line
DNC		A	FC021	mac=0or999		maritime limit boundary - precautionary maritime limit boundary - unknown, other
DNC		A	FC031	mac=0or9		maritime area - unknown, work in progress
DNC		Α	FC165	rtt=0		route (maritime) - use unknown
	Lina				tuaffia waa aya uta thiak alaa	
0665	Line		S(DASH,4,TRF)	,	traffic magenta thick das	
DNC		L	FC031 FC041	mac=40or41		maritime area - TSS
DNC DNC		L A	FC165	tsp=2 rtt=11		traffic separation scheme (TSS) - outer boundary
						route (maritime) - 2-way
0680	Line		S(DOTT,2,CHB	,	black thin dotted line	
DNC		L	FA000	use=32		administrative boundary - insular
DNC		A	AL200	loc=22 AND vrr=4 AND hdp>0and	<=20	ruins - offshore, submerged - depth 20m or less
DNC DNC		A A	AL200 BC080	loc=22 AND vrr=4 AND hdp=0		ruins - offshore, submerged - depth unknown
DNC		A	BD000	hdp>0and<=20		perches/stakes
DNC		A	BD000	hdp=0		underwater danger/hazard - depth 20m or less underwater danger/hazard - depth unknown
DNC		Α	BD020	vrr=4 AND hdp=0		crib - submerged; depth unknown
DNC		Α	BD020	vrr=4 AND hdp>0and<=20		crib - submerged; depth 20m or less
DNC		Α	BD030			discolored water
DNC		Α	BD100	vrr=4		pile/piling/post - submerged
DNC		Α	BD120	vrr<>8 AND hdp=0orNULL		reef - not covers and uncovers, depth unknown or null
DNC		Α	BD120	vrr=4 AND hdp>0and<=20		reef - submerged, depth 20m or less
DNC		Α	BD140	vrr=4		snags/stumps - submerged
DNC		Α	BD180	vrr=4 AND hdp>0and<=20		wreck - submerged; depth 20m or less
0700	Line	L	C(FERYRT01)		magenta dash very thin I	ine w/ boat shape
DNC		L	AQ070	fer=2		ferry crossing - without cables
0701	Line	LO	C(FERYRT02)		black dash very thin line	w/ boat shape
DNC		L	AQ070	fer=1		ferry crossing - with cables
0704	Line	1.0	C(PIPSOL06)		gray dash very thin line v	· -
DNC	LITTE	L	AQ113	loc<>25 AND pro=116	gray dasir very unin illie v	pipeline/pipe - not above ground or over water; water
DNC		L	AQ113 AQ113	loc<>25 AND pro=116		pipeline/pipe - not above ground or over water, water pipeline/pipe - not above ground or over water; sewage,
DINO		-		100 20 / 114D pro-30 Ort pit-2010		outfall, intake
DNC		L	BH010	loc<>25		aqueduct - not elevated
0705	Line	L	C(PIPSOL05)		magenta dash very thin l	ine w/ cir
DNC		L	AQ113	loc<>25 AND pro<>95and<>116 A	AND plt<>2and<>3	pipeline/pipe - not above ground or over water; not sewage or water
0708	Line	1.0	C(CBLSUB06)		magenta broken zig-zag	
DNC	9	L	AT005			cable
	Lino				gray Learnley line	
0712	Line	L	C(FSHFAC02) BB100		gray L complex line	figh stakes
DNC		L	שטומם			fish stakes

Prod	uct	Delin FCO	DE A	Attribute Condition		Description
0713	Line	LC			magenta compressed zig	g-zag line
DNC		L BC040				light
0722	Line	LC(RES	ARE51)		magenta dashed T line	
DNC		L FC036			-	restricted area
0723	Line	LC(DWF	RTCL08)		traffic magenta solid line	w/ > and DW
DNC		L FC165	a	atn=1 AND exs=22 AND rtt=3	·	route (maritime) - marked;1-way;recomm for deep draft vessels
0724	Line	LC(DWF	RTCL07)		traffic magenta dash line	w/ > and DW
DNC		L FC165	á	atn=2 AND exs=22 AND rtt=3		route (maritime) - unmarked;1-way;recomm for deep draft vessels
0725	Line	LC(DWF	RTCL06)		traffic magenta solid line	w/ < > and DW
DNC		L FC165	a	atn=1 AND exs=23 AND rtt=3		route (maritime) - marked;2-way;recomm for deep draft vessels
0726	Line	LC(DWF	RTCL05)		traffic magenta dash line	w/ < > and DW
DNC		L FC165	_	atn=2 AND exs=23 AND rtt=3		route (maritime) - unmarked;2-way;recomm for deep draft vessels
0727	Line	LC(DWL	DEF01)		traffic magenta dash line	w/ < ? > and DW
DNC		L FC165	6	exs=0 AND rtt=3		route (maritime) - unknown;recomm for deep draft vessels
0728	Line	LC(REC	TRC12)		gray very thin line w/ >	
DNC		L FC165	á	atn=1 AND exs=22 AND rtt<>3		route (maritime) - marked;1-way;not recomm for deep draft vessels
0729	Line	LC(REC	TRC11)		gray very thin dash line v	v/ >
DNC		L FC165	ā	atn=2 AND exs=22 AND rtt<>3		route (maritime) - unmarked;1-way;not recomm for deep draft vessels
0730	Line	LC(REC			gray very thin line w/ < >	
DNC		L FC165	ā	atn=1 AND exs=23 AND rtt<>3		route (maritime) - marked;2-way;not recomm for deep draft vessels
0731	Line	LC(REC	TRC09)		gray very thin dash line v	v/ < >
DNC		L FC165		atn=2 AND exs=23 AND rtt<>3		route (maritime) - unmarked;2-way;not recomm for deep draft vessels
0732	Line	LC(REC	,		gray very thin dash line v	
DNC		L FC165	€	exs=0 AND rtt<>3		route (maritime) - unknown;not recomm for deep draft vessels safety fairway
	Doint		·NAA (CE4)		It maganta anan flag	Salety lail way
0733 DNC	Point	A ZC040	MAG51)		It magenta open flag	magnetic disturbance area
	Lina		/ACC21)		dle arov amall anan raata	
0743 DNC	Line	L BA010	,	acc=2 AND slt<>6and<>8	dk gray small open recta	coastline/shoreline - approximate; not mangrove or marsh
0752	Line		DASH,1,CI	HGRD)+	gray very thin dash line v	v/ cntred waves
DNC		L BD010	,			breakers
0753	Line	LC=LS(SY(BRID	SOLD,5,CI DGE01)	HGRD)+	very thck gray line w/ cnt	trd magenta dbl cir
DNC		L AQ040) k	osc=12 OR bot=4or10or11		bridge/overpass/viaduct
0802	Area	AC(CHC	SRD)		gray solid fill	
DNC		A AN060)			railroad yard/marshalling yard
0803	Area	AC(DEF	PIT)		yellow green solid fill	
DNC		A AL200	•	oc=22 AND vrr=8	-	ruins - offshore, covers and uncovers
DNC		A BA020)			foreshore
DNC		A BD020	١ ،	vrr=8 AND hdp=NULL		crib - covers and uncovers

Product Delin FCODE Attribute Condition Description	
DNC A BD100 vrr=8 pile/piling/post - covers and u	incovers
DNC A BD120 vrr=8 reef - covers and uncovers	
DNC A BD140 vrr=8 snags/stumps - covers and u	ncovers
DNC A BD180 vrr=8 AND hdp=NULL wreck - covers and uncovers;	
DNC A FC031 mac=2 AND hdp=0 AND isdm=0 maritime area - dredged char shallow mode off	•
DNC A FC031 mac=2 AND hdp=0 AND isdm=1 maritime area - dredged char shallow mode on	nnel, depth unknown,
0804 Area AC(CHBRN) brown solid fill	
DNC A AC030 settling basin/sludge pond	
DNC A AD010 power plant	
DNC A AD030 substation/transformer yard	
DNC A AH010 bastion/rampart/fortification	
DNC A AH050 fortification	
DNC A AK040 athletic field	
DNC A AK160 stadium/amphitheater	
DNC A AL015 building	
DNC A AL020 built-up area	
	rei
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
g-an- state.	
DNC A AM070 tank	
DNC A AQ116 pumping station	
DNC A AT020 early warning radar site	
DNC A BB150 landing place	
DNC A BB170 offshore loading facility	
DNC A BD020 vrr=1 AND hdp=NULL crib - above surface	
DNC A BD100 vrr=1 pile/piling/post - does not cov	ver er
DNC A BD140 vrr=1 snags/stumps - does not cover	er
DNC A BD180 vrr=1 AND hdp=NULL wreck - does not cover; depth	n null
DNC A BI030 lock	
DNC A GB055 runway	
0805 Area AC(DEPDW) depth white fill	
DNC A BA040 water (except inland)	
DNC A BE010 idsm=0 AND cvl>=msdcand<>99999 depth area (very deep); 4 sha	ades
DNC A BE010 idsm=1 AND cvl>=ssdcand<>99999 depth area (deep water); 2 sh	nades
DNC A FC031 mac=2 AND idsm=1 AND hdp>=ssdc maritime area - dredged char	
DNC A FC031 mac=2 AND idsm=0 AND hdp>=msdc maritime area - dredged char	·
0810 Area AC(DEPVS) depth med blue solid fill	
DNC A AL200 loc=22 AND vrr=4 AND hdp=0 ruins - offshore, submerged -	depth unknown
DNC A BC080 perches/stakes	
DNC A BD000 hdp=0 underwater danger/hazard - c	depth unknown
DNC A BD020 vrr=4 AND hdp=0 crib - submerged; depth unkn	·
DNC A BD030 discolored water	
DNC A BD100 vrr=4 pile/piling/post - submerged	
DNC A BD120 vrr<>8 AND hdp=0orNULL reef - not covers and uncover	rs denth unknown or null
	io, aopai amaiowii oi nali
	oth null
DNC A BD180 vrr=4 AND hdp=0 wreck - submerged; depth un	
DNC A BE010 idsm=0 AND isdm=1 AND cvl <mssc (very="" 4="" area="" depth="" s<="" shallow);="" td=""><td></td></mssc>	
DNC A BE010 idsm=1 AND isdm=0 AND cvl <ssdc (very="" 2="" area="" depth="" s<="" shallow);="" td=""><td></td></ssdc>	
DNC A BE010 idsm=1 AND isdm=1 AND cvl <ssdc (very="" 2="" area="" depth="" s<="" shallow);="" td=""><td></td></ssdc>	
DNC A BE010 idsm=0 AND isdm=0 AND cvl <mssc (very="" 4="" area="" depth="" s<="" shallow);="" td=""><td>shades; shallow mode off</td></mssc>	shades; shallow mode off

	ıct	Delin	FCODE	Attribute Condition		Description
DNC		Α	BH020			canal
DNC		Α	BH080			lake/pond
DNC		Α	BH130			reservoir
DNC		Α	BH140			river/stream
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0and<	ssdc AND isdm=1	maritime area - dredged channel, 2 shades, very
						shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0and<	ssdc AND isdm=0	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and<	mssc AND isdm=0	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and<	mssc AND isdm=1	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
0820	Area	А	.C(DEPMD)	de	pth pale blue solid fill	Shallow, Shallow Hode off
DNC	,	Α	BE010	idsm=0 AND cvl>=ssdcand <msdc< td=""><td></td><td>donth area (medium doon): 4 shades</td></msdc<>		donth area (medium doon): 4 shades
		A	FC031		and smade	depth area (medium deep); 4 shades
DNC		^	10031	mac=2 AND idsm=0 AND hdp>=ssdca	and <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
0821	Area	Α	C(DEPMS)	de _l	pth It blue solid fill	
DNC		Α	BE010	idsm=0 AND isdm=0 AND cvl>=mssca	and <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode off</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode off
DNC		Α	BE010	idsm=0 AND isdm=1 AND cvl>=mssca	and <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode on</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=mssc isdm=0	and <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=mssc isdm=1	and <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
0822	Area	А	C(LANDA)	It b	prown solid fill	
DNC		Α	AK090			fairgrounds
DNC		Α	BA030			island
DNC		Α	BB090			drydock
DNC		Α	BJ110			tundra
DNC		Α	DA010			ground surface element
DNC		Α	GB005			airport/airfield
	A ====				data aray salid fill	aiiporvaiineid
	Area		C(NODTA)		data gray solid fill	
DNC		A	BE010	cvl=99999		depth area; depth unknown
DNC		A	BJ030			glacier
DNC		Α	BJ065			ice shelf
DNC		Α	BJ100			snow field/ice field
DNC		Α	FC021	mac=26		maritime limit boundary - unsurveyed
0824	Area	Α	.C(TRFCF,3)	tra	ffic It magenta solid fill	
DNC		Α	FC041	tsp=3		traffic separation scheme (TSS) - separation zone area
0902	Point	S	Y(ACHARE51)	It n	magenta anchor	
DNC		. А	BB010	mac<>12	J	anchorage - not anchoring berth
	A ===				ny fiah tran ====================================	and the continuity point
0903	Area		P(FSHFAC04)	gra	ay fish trap patt fill	
DNC		A	BB110			fish traps/fish weirs
DNC		A	FC021	mac=56		maritime limit boundary - fish traps
0904	Area		P(MARCUL02)	gra	ay fish in net patt fill	auster had/museel had
DNC		A	BB180			oyster bed/mussel bed
		A	BH050	57		fish hatchery/fish farm/marine farm
DNC		Α	FC021	mac=57		maritime limit boundary - marine farm
			D# 44 DOLLEO ()	l		
DNC	Area	Α	P(MARSHES1)	bro	own marsh patt fill	
DNC DNC	Area	A	P(MARSHES1) BH095	bro	own marsn patt till	marsh/swamp
DNC DNC 0910 DNC	Area Area		BH095		pth med blue grid patt	·

Produ	ıct	Delin	FCODE	Attribute Condition	Description
0912	Area	Al	P(ICEARE04)	gray randor	n line patt fill
DNC		Α	BJ030		glacier
DNC		Α	BJ065		ice shelf
DNC		Α	BJ100		snow field/ice field
0913	Area	Al	>	feature brow	vn solid filled circle patt fill
DNC		Α	DB090		embankment/fill
DNC		Α	DB170		sand dune/sand hills
0914	Area	Al	>	feature brow	vn cirs patt fill
DNC		Α	EA030		nursery
0915	Area	Al	P(VEGATN03)	feature brow	vn tree side-view patt fill
DNC		Α	EA040		orchard/plantation
DNC		Α	EA050		vineyards
DNC		Α	EC030	veg<>19	trees - not mangrove
0916	Area	ΑI	P(VEGATN04)	feature brov	vn mangrove side-view patt fill
DNC	71100		EC030	veq=19	trees - mangrove
	A				
0919	Area		P(DRGARE01)		paced dot patt fill
DNC		A	FC031	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
DNC		A	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and<="" td=""><td>shallow, shallow mode off</td></ssdc>	shallow, shallow mode off
DNC		A	FC031	mac=2 AND idsm=1 AND hdp>=ssdc	maritime area - dredged channel, 2 shades, deep water
DNC		A	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and<="" td=""><td>shallow, shallow mode on</td></mssc>	shallow, shallow mode on
DNC		A	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and<="" td=""><td>shallow, shallow mode off</td></mssc>	shallow, shallow mode off
DNC		A	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc isdm="0</td"><td>shallow, shallow mode off</td></ssdc>	shallow, shallow mode off
DNC		A	FC031	mac=2 AND idsm=0 AND hdp>=msdc	maritime area - dredged channel, 4 shades, deep water
DNC		A	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
DNC		Α .	FC031	mac=2 AND hdp=0 AND isdm=0	maritime area - dredged channel, depth unknown, shallow mode off
DNC		Α .	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and<="" td=""><td>shallow, shallow mode on</td></ssdc>	shallow, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc isdm="1</td"><td>AND maritime area - dredged channel, 4 shades, med shallow, shallow mode on</td></ssdc>	AND maritime area - dredged channel, 4 shades, med shallow, shallow mode on
0932	Area	Al	P(AIRARE02)	feature brow	vn airplane patt fill
DNC		Α	GB005		airport/airfield
0933	Area	Al	P(NODATA03)	gray offset	dash patt fill
DNC		Α	FC021	mac=26	maritime limit boundary - unsurveyed
0934	Area	Al	P(PRTSUR01)	gray dash v	vide patt fill
DNC			BE010	cvl=99999	depth area; depth unknown
0949	Area	ΔΙ	P(DIAMOND1)		diamond patt fill
DNC	Aica	A	BA020	isdm=1	foreshore - shallow display mode on
DNC		Α	BD120	vrr=8 AND isdm=1	reef - covers and uncovers, shallow display mode on
DNC		Α	BE010	idsm=1 AND isdm=1 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode on</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode on
DNC		Α	BE010	idsm=0 AND isdm=1 AND cvl <mssc< td=""><td>depth area (very shallow); 2 shades, shallow mode on</td></mssc<>	depth area (very shallow); 2 shades, shallow mode on
DNC		Α	BE010	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""><td>depth area (very shallow); 4 shades; shallow mode on on</td></ssdc<>	depth area (very shallow); 4 shades; shallow mode on on
DNC		Α	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc isdm="1</td"><td></td></ssdc>	
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and<="" td=""><td></td></mssc>	

Produ	ıct [Delin	FCODE	Attribute Condition		Description
DNC		Α	FC031	mac=2 AND idsm=1 AND hdp>0ai	nd <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
1220	Point	S	Y(RCTLPT52)		traffic magenta dashed o	pen arrow
DNC		Р	FC165	dof<>0		route (maritime) - direction known
1233	Point	S	Y		black horiz line below tria	ngle w/ B inside
DNC		Р	BF010	mcc=0 AND psc=0		bottom characteristics - surface unknown
1236	Point	S'	Y(ITZARE51)		It magenta IT	
DNC		Α	FC031	mac=41	•	maritime area - inshore traffic zone (TSS)
1238	Point	S	Y(DWRTPT51)-	+ SY(TSLDEF51)	traffic It mag DW filled an	row btwn 2 manta ?
DNC			FC165	rtt=4		route (maritime) - deep water
1251	Point	S	Y(SOUND*C2)		sounding gray circle	, ,
DNC	1 Oilit	Р	BE020	acc<>1	souriality gray official	sounding or drying height - circle (light) indicating low accuracy
1256	Point	S'	Y(SOUNDSA1)		sounding black overbar	·
DNC			BE020	hdh>=0 AND hdp=NULL	J	drying height overbar (dark)
1310	Line	LO	·.	·	black one long dash two	
DNC	70	L	FA000	use=23	J.L.S. Circ rong adon two	administrative boundary - international
DNC		L	FA060	400 20		defacto boundary
1573	Line	LS	S(SOLD,1,CSTL	LN)	dk gray very thin solid lin	e
DNC		L	BA010	acc=1 AND slt<>6and<>8	3 , ,	coastline/shoreline - accurate; not mangrove or marsh
DNC		Α	BB090			drydock
1651	Line	LS	S(DASH,2,TRF0	CF)	traffic It magenta thin das	sh line
DNC		L	FC021	mac=48 AND mbl=NULL	-	maritime limit boundary - pilot boarding
DNC		Α	FC021	mac=48		maritime limit boundary - pilot boarding
2036	Point	S	Y		black sm filled square	
DNC		Р	AL015	bfc<>7and<>81		building - not house of worship, not maritime station
2102	Point	S'	Y(DSHAER11)		black satellite dish symbo	ol .
DNC		Р	AT010			disk/dish
3000	Line	LS	S(DASH,2,CHM	IGF)	It magenta thin dash line	
DNC		L	BB010	mac<>12		ancharage not ancharing barth
DNC						anchorage - not anchoring berth
DNC		L	BB010	mac=12		anchorage - anchoring berth
		Α	BB010	mac<>12		
DNC						anchorage - anchoring berth
DNC 3077	Line	A A	BB010 BB010 S(DASH,1,CHG	mac<>12 mac=12	It gray very thin dash line	anchorage - anchoring berth anchorage - not anchoring berth
3077 DNC	Line	A A LS	BB010 BB010 S(DASH,1,CHG FC021	mac<>12 mac=12 RF) mbl=7 AND mac=NULL	It gray very thin dash line	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline
3077 DNC DNC	Line	A A LS L	BB010 BB010 S(DASH,1,CHG FC021 FC031	mac<>12 mac=12 RF)	It gray very thin dash line	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel
3077 DNC	Line	A A LS	BB010 BB010 S(DASH,1,CHG FC021	mac<>12 mac=12 RF) mbl=7 AND mac=NULL	- , ,	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very
3077 DNC DNC DNC	Line	A A L L L	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2	- , ,	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed
3077 DNC DNC DNC DNC DNC	Line	A A L L L A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ar	nd <mssc and="" isdm="1</td"><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown,</td></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown,
DNC DNC DNC DNC DNC	Line	A A L L A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031 FC031 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ar mac=2 AND hdp=0 AND isdm=1	nd <mssc and="" isdm="1<br">nd<ssdc and="" isdm="1</td"><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very</td></ssdc></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very
3077 DNC DNC DNC DNC DNC DNC DNC	Line	A A A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031 FC031 FC031 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ai mac=2 AND hdp=0 AND isdm=1 mac=2 AND idsm=1 AND hdp>0ai	nd <mssc and="" isdm="1<br">nd<ssdc and="" isdm="1<br">nd<ssdc and="" isdm="0</td"><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very</td></ssdc></ssdc></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very
DNC DNC DNC DNC DNC DNC DNC DNC	Line	A A A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031 FC031 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ai mac=2 AND hdp=0 AND isdm=1 mac=2 AND idsm=1 AND hdp>0ai mac=2 AND idsm=1 AND hdp>0ai	nd <mssc and="" isdm="0</td" nd<ssdc=""><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water maritime area - dredged channel, 4 shades, medium</td></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water maritime area - dredged channel, 4 shades, medium
3077 DNC DNC DNC DNC DNC DNC DNC DNC DNC	Line	A A A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031 FC031 FC031 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ai mac=2 AND hdp=0 AND isdm=1 mac=2 AND idsm=1 AND hdp>0ai mac=2 AND idsm=1 AND hdp>0ai mac=2 AND idsm=1 AND hdp>0ai	nd <mssc and="" isdm="0" nd<ssdc="" sdc="" sdcand<msdc<="" td=""><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water</td></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water
DNC	Line	A A A A A	BB010 BB010 S(DASH,1,CHG FC021 FC031 BD060 FC031 FC031 FC031 FC031 FC031 FC031	mac<>12 mac=12 RF) mbl=7 AND mac=NULL mac=2 mac=2 AND idsm=0 AND hdp>0ai mac=2 AND idsm=1 AND hdp>=si mac=2 AND idsm=0 AND hdp>=si mac=2 AND idsm=0 AND hdp>=si	nd <mssc and="" and<="" isdm="0" nd<ssdc="" sdc="" sdcand<msdc="" ssscand<ssdc="" td=""><td>anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water maritime area - dredged channel, 4 shades, medium deep maritime area - dredged channel, 4 shades, med</td></mssc>	anchorage - anchoring berth anchorage - not anchoring berth anchorage - anchoring berth maritime limit boundary - territorial waters baseline maritime area - dredged channel kelp/seaweed maritime area - dredged channel, 4 shades, very shallow, shallow mode on maritime area - dredged channel, depth unknown, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode on maritime area - dredged channel, 2 shades, very shallow, shallow mode off maritime area - dredged channel, 2 shades, deep water maritime area - dredged channel, 4 shades, medium deep maritime area - dredged channel, 4 shades, med

Prod	uct	Delin	FCODE	Attribute Condition		Description
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>=n isdm=0	nsscand <ssdc and<="" td=""><td>maritime area - dredged channel, 4 shades, med shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
DNC		Α	FC031	mac=2 AND idsm=0 AND hdp>0a	nd <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
3082	Line	L	S(SOLD,1,	CHGRD)	gray very thin solid line	
DNC		L	DB090			embankment/fill
3116	Line	L	S(DASH,1,	CHBLK)	black very thin dash line	
DNC		Α	BC060	·	·	light sector
3117	Line	L	S(DASH,2,	CHBLK)	black thin dash line	
DNC		A	BD180	vrr=4 AND hdp>20		wreck - submerged; depth greater than 20m
3119	Line	1	S(L-DASH,	·	black very thin long dash	
DNC	LITIC	L	FA020	, i, or ibert)	black very triil long dasii	armistice line
DNC		L	FA110			international date line
	Lina			2 CURLIN	block this long doch line	international date inte
3120	Line	L	S(L-DASH, FA040	,Z,CHBLK)	black thin long dash line	alaine line
DNC						claim line
4078	Area		.P		basic blue inundation are	•
DNC		Α	BH090			land subject to inundation
4186	Line	L	S(DASH,2,	CHMGD)	magenta thin dash line	
DNC		L	FC021	mac=24 AND mbl=NULL		maritime limit boundary - turning area
DNC		L	FC021	mac=58 AND mbl=NULL		maritime limit boundary - dredging
DNC		L	FC021	mac=44 AND mbl=NULL		maritime limit boundary - deguassing
DNC		L	FC021	mac=32or33 AND mbl=NULL		maritime limit boundary - oil field, gas field
DNC		L	FC021	mac=27or28or29 AND mbl=NULL		maritime limit boundary - submarine exercise, mine laying, firing range
DNC		L	FC031	mac=4		maritime area - mine danger
DNC		L	FC031	mac=5		maritime area - entry prohibited
DNC		A	AL005			animal sanctuary
DNC		A	FC021	mac=32or33		maritime limit boundary - oil field, gas field
DNC		A	FC021	mac=44		maritime limit boundary - deguassing
DNC		A	FC021	mac=27or28or29		maritime limit boundary - submarine exercise, mine laying, firing range
DNC		A	FC021	mac=24		maritime limit boundary - turning area
DNC		A	FC021	mac=58		maritime limit boundary - dredging area
DNC		A	FC031	mac=5		maritime area - entry prohibited
DNC		A	FC031	mac=4		maritime area - mine danger
DNC		A A	FC036 FC036	mac=15		restricted area - anchoring prohibited
DNC DNC		A	FC036	mac=20 mac=21or23or61		restricted area - cables
DNC		A	FC036	mac=2101230161		restricted area - pipelines, sewer restricted area - fishing prohibited
DNC		A	FC036	mac=22 mac=37		restricted area - listling profibiled restricted area - safety zone
DNC		Α	FC036	mac=43		restricted area - safety zone restricted area - area to be avoided
DNC		Α	FC036	mac=0or999		restricted area - to be avoided, other
5.10						

PRODUCT SYMBOLIZATION REFERENCE

E.1 SCOPE

E.1.1 <u>Scope</u>. This appendix provides a product-based symbolization reference showing the symbol(s) used to symbolize each feature in that product. It is a mandatory part of the specification. The information contained herein is intended for compliance.

E.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

E.3 PRODUCT SYMBOLIZATION REFERENCE

This appendix is organized by VPF product and sorted by fcode/delineation. The assigned full chart symbology for that fcode/delineation is presented textually in a single row. For those products that also have simplified symbology, there will be an additional row of symbology identified.

Product Symbolization Reference

DNC

Point Symbology	Line Symbology	Area Symbology	
AA010			AA010

Area

mine/quarry

Full Chart Symbology:

0027 feature brown mine symbol inside circle 0624 feature brown very thin dash line

Simplified Symbology:

0027 feature brown mine symbol inside circle 0624 feature brown very thin dash line

Point

mine/quarry

Full Chart Symbology:

0001 feature brown mine symbol

Simplified Symbology:

0001 feature brown mine symbol

AB000 AB000

Area

disposal site/waste pile

Full Chart Symbology:	
	0624 feature brown very thin dash line
Simplified Symbology:	
	0624 feature brown very thin dash line

AB010 AB010

Area

wrecking yard/scrap yard

Full Chart Symbology:	
	0624 feature brown very thin dash line
Simplified Symbology:	
	0624 feature brown very thin dash line

DNC

Point Symbology	Line Symbology	Area Symbology	
AC000			AC000
Area			
	mlau4		

processing plant/treatment plant

Full Chart Symbology:		
	0624 feature brown very thin dash line	
Simplified Symbology:		
	0624 feature brown very thin dash line	

AC030 AC030

Area

settling basin/sludge pond

Full Chart Symbology:		
	0600 black very thin solid line	4077 depth med blue narrow rt diag line patt fill
Simplified Symbology:		
	0600 black very thin solid line	0804 brown solid fill

AD010 AD010

Area

power plant

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

AD030 AD030

Area

substation/transformer yard

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Point

substation/transformer yard

Full Chart Symbology:
0002 feature brown filled square w/ black
outline

Simplified Symbology:

0002 feature brown filled square w/ black outline

DNC

Point Symbology Line Symbology Area Symbology **AF010 AF010 Point** chimney/smokestack Full Chart Symbology: 0003 black chimney symbol Simplified Symbology: 0003 black chimney symbol AF030 **AF030 Point** cooling tower Full Chart Symbology: 0004 black tower symbol Simplified Symbology: 0004 black tower symbol AF040 **AF040 Point** crane Full Chart Symbology: 0005 feature brown crane symbol Simplified Symbology: 0005 feature brown crane symbol **AF070 AF070 Point** flare pipe Full Chart Symbology: 0006 black flare stack symbol Simplified Symbology: 0006 black flare stack symbol

DNC

Point Symbology	Line Symbology	Area Symbology	
AH010			AH010
Area			

bastion/rampart/fortification

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Point

bastion/rampart/fortification

Full Chart Symbology: 0007 black square Simplified Symbology: 0007 black square

AH050 AH050

Area

fortification

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Point

fortification

Full Chart Symbology: 0007 black square	
Simplified Symbology:	
0007 black square	

AJ050 AJ050

Point

windmill

Full Chart Symbology:
0008 black sm cir w/ X on top
Simplified Symbology:
0008 black sm cir w/ X on top

DNC

Point Symbology	Line Symbology	Area Symbology	
AK020			AK020
Line			
amusement park attraction			
Full Chart Symbology:	0600 black very thin solid line		
Simplified Symbology:	0600 black very thin solid line		
Point			
amusement park attraction			
Full Chart Symbology: 0024 black dot inside cir			
Simplified Symbology: 0024 black dot inside cir			
AK040			AK040
Area			
athletic field			
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill	
AK080			AK080
Point			
drive in theater screen			
Full Chart Symbology: 0024 black dot inside cir			
Simplified Symbology: 0024 black dot inside cir			
AK090			AK090
Area			
fairgrounds			
Full Chart Symbology:		0822 It brown solid fill	
Simplified Symbology:		0822 It brown solid fill	

DNC

Point Symbology	Line Symbology	Area Symbology
AK130		AK130

Line

race track

Full Chart Symbology:		
	0605 feature brown thin solid line	
Simplified Symbology:		
	0605 feature brown thin solid line	

AK160 AK160

Area

stadium/amphitheater

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Point

stadium/amphitheater

Full Chart Symbology:

0002 feature brown filled square w/ black outline

Simplified Symbology:

0002 feature brown filled square w/ black

AL005 AL005

Area

animal sanctuary

Full Chart Symbology:	
0081 It magenta square w/ I	0734 magenta dash/chevron line
Simplified Symbology:	
0081 It magenta square w/ I	4186 magenta thin dash line

DNC

Point Symbology	Line Symbology	Area Symbology	
L015			AL0
rea			
ouilding			
Full Chart Symbology:	0000 black complete called line	0004 harring a Halfill	
O'mal/Sad Omahalama	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill	
oint			
ouilding - house of worship	bfc=7 A	ND hwt=0or2or3or4or7or22	
Full Chart Symbology: 0010 black 'iron cross'			
Simplified Symbology: 0010 black 'iron cross'			
ouilding - house of worship	bfc=7 A	ND hwt=11or14or15or16or20o	or21
Full Chart Symbology: 0011 black X inscribed in rectangle			
Simplified Symbology: 0011 black X inscribed in rectangle			
ouilding - house of worship	bfc=7 A	ND hwt=5or6or9	
Full Chart Symbology: 0012 black mosque/minaret w/ dot in circ	le		
Simplified Symbology: 0012 black mosque/minaret w/ dot in circ	le		
ouilding - maritime station (not re	escue), sound signal bfc=81	AND sta<>5 AND sst<>16	
Full Chart Symbology: 0402 It magenta arcs origin offset - minim	num		
Simplified Symbology: 0402 It magenta arcs origin offset - minim	num		
ouilding - maritime station (rescu	e), sound signal bfc=81	AND sta=5 AND sst<>16	
Full Chart Symbology: 0401 It magenta arcs origin offset - maxir	num		
Simplified Symbology:			

0401 It magenta arcs origin offset - maximum

DNC

Point Symbology	Line Symbology	Area Symbology
. 015		AL01
uilding - maritime station		bfc=81 AND sta<>0and<>1and<>2and<>3and<>5and<>6and<>11
Full Chart Symbology: 0015 It magenta SS in rectangle water	pale green	
Simplified Symbology: 0015 It magenta SS in rectangle wifill	pale green	
uilding - maritime station		bfc=81 AND sta=0or2or3or6or11
Full Chart Symbology: 0002 feature brown filled square woutline	black	
Simplified Symbology: 0002 feature brown filled square woutline	black	
uilding - maritime station		bfc=81 AND sta=1
Full Chart Symbology: 0013 It magenta CG in rectangle w fill	pale green	
Simplified Symbology: 0013 It magenta CG in rectangle w fill	['] pale green	
uilding - maritime station		bfc=81 AND sta=5
Full Chart Symbology: 0014 black filled diamond cntred or line	ı horizontal	
Simplified Symbology: 0014 black filled diamond cntred or line	ı horizontal	
uilding - not house of wors	nip, not maritime station	bfc<>7and<>81
Full Chart Symbology: 2036 black sm filled square	_	
Simplified Symbology: 2036 black sm filled square		

DNC

Point Symbology Line Symbology Area Symbology

AL018 AL018

Point

building superstructure addition

Full Chart Symbology:

0002 feature brown filled square w/ black outline

Simplified Symbology:

0002 feature brown filled square w/ black outline

AL020 AL020

Area

built-up area

Full Chart Symbology:		
	0604 feature brown very thin solid line	0804 brown solid fill
Simplified Symbology:		
	0604 feature brown very thin solid line	0804 brown solid fill

Point

built-up area

Full Chart Symbology:

0016 feature brown filled cir

Simplified Symbology:

0016 feature brown filled cir

AL025 AL025

Point

cairn

Full Chart Symbology:

0017 black three stacked sm cirs

Simplified Symbology:

0017 black three stacked sm cirs

AL030 AL030

Area

cemetery

Full Chart Symbology:		
	0600 black very thin solid line	0804 brown solid fill
Simplified Symbology:		
	0600 black very thin solid line	0804 brown solid fill

DNC

0020 black hatched trapazoid

Point Symbology Line Symbology Area Symbology **AL050 AL050 Point** display sign Full Chart Symbology: 0018 black rectange above inverted T Simplified Symbology: 0018 black rectange above inverted T **AL070 AL070** Line fence Full Chart Symbology: 0600 black very thin solid line Simplified Symbology: 0600 black very thin solid line **AL073 AL073 Point** flagstaff/flagpole Full Chart Symbology: 0019 feature brown flag symbol Simplified Symbology: 0019 feature brown flag symbol **AL130 AL130 Point** monument Full Chart Symbology: 0020 black hatched trapazoid Simplified Symbology:

DNC

Point Symbology	Line Symbology	Area Symbology
_200		AL200
ea		
uins - offshore, covers and unco	vers lo	oc=22 AND vrr=8
Full Chart Symbology:	0626 dk gray thin dash line	0803 yellow green solid fill
Simplified Symbology:	0626 dk gray thin dash line	0803 yellow green solid fill
uins - offshore, does not cover	lo	oc=22 AND vrr=1
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill
uins - offshore, submerged - dep	th 20m or less	oc=22 AND vrr=4 AND hdp>0and<=20
Full Chart Symbology:	0680 black thin dotted line	
Simplified Symbology:	0680 black thin dotted line	
uins - offshore, submerged - dep	th greater than 20m lo	oc=22 AND vrr=4 AND hdp>20
Full Chart Symbology:	0629 gray thin dash line	
Simplified Symbology:	0629 gray thin dash line	
uins - offshore, submerged - dep	th unknown lo	oc=22 AND vrr=4 AND hdp=0
Full Chart Symbology:	0680 black thin dotted line	0810 depth med blue solid fill
Simplified Symbology:	0680 black thin dotted line	0810 depth med blue solid fill
uins - on ground surface	lo	oc=8
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill

DNC

0052 depth med blue fill cir w/ black dotted

outline

Point Symbology Line Symbology Area Symbology **AL200 AL200 Point** ruins - offshore, covers and uncovers loc=22 AND vrr=8 Full Chart Symbology: 0055 yellow-green solid circle w/ black dot outline Simplified Symbology: 0055 yellow-green solid circle w/ black dot ruins - offshore, does not cover loc=22 AND vrr=1 **Full Chart Symbology:** 0002 feature brown filled square w/ black outline Simplified Symbology: 0002 feature brown filled square w/ black outline loc=22 AND vrr=4 AND hdp>0and<=20 ruins - offshore, submerged - depth 20m or less Full Chart Symbology: 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology: 0053 depth med blue fill Ig oval w/ black dot outline ruins - offshore, submerged - depth greater than 20m loc=22 AND vrr=4 AND hdp>20 **Full Chart Symbology:** 0054 lg black oval w/ dotted outline Simplified Symbology: 0054 lg black oval w/ dotted outline ruins - offshore, submerged - depth unknown loc=22 AND vrr=4 AND hdp=0 Full Chart Symbology: 0052 depth med blue fill cir w/ black dotted outline Simplified Symbology:

Line Symbology	Area Symbology	
		AL200
lo	oc=8	
		AL240
		AL260
0600 black very thin solid line		
0600 black very thin solid line		
		AM010
0624 feature brown very thin da	ash line	
0624 feature brown very thin da	ash line	
		AM020
	0600 black very thin solid line 0600 black very thin solid line 0624 feature brown very thin da	loc=8 loc=8 0600 black very thin solid line

DNC

Point Symbology	Line Symbology	Area Symbology	
AM030			AM030
Area			
grain elevator			
Full Chart Symbology:	OCOO blook complete called line	0004 brown callel fill	
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill	
Simplified Cymbology:	0600 black very thin solid line	0804 brown solid fill	
Point			
grain elevator			
Full Chart Symbology: 0004 black tower symbol			
Simplified Symbology: 0004 black tower symbol			
AM040			AM040
Area			
mineral pile			
Full Chart Symbology:	0624 feature brown very thin dash line		
Simplified Symbology:	0624 feature brown very thin dash line		
AM070			AM070
Area			
tank			

Point

tank

Full Chart Symbology:

Simplified Symbology:

Full Chart Symbology: 0022 black cir	
Simplified Symbology:	
0022 black cir	

0804 brown solid fill

0804 brown solid fill

0600 black very thin solid line

0600 black very thin solid line

Point Symbology	Line Symbology	Area Symbology	
AM080			AM080
Point			
water tower			
Full Chart Symbology: 0023 black water tower symbol			
Simplified Symbology: 0023 black water tower symbol			
AN010			AN010
Line			
railroad			
Full Chart Symbology:	0605 feature brown thin solid line		
Simplified Symbology:	0605 feature brown thin solid line		
AN060			AN060
Area			
railroad yard/marshalling yard			
Full Chart Symbology:		0802 gray solid fill	
Simplified Symbology:		0802 gray solid fill	
AP020			AP020
Line			
interchange			
Full Chart Symbology:	0605 feature brown thin solid line		
Simplified Symbology:	0605 feature brown thin solid line		
AP030			AP030
Line			
road			
Full Chart Symbology:	0605 feature brown thin solid line		
Simplified Symbology:	0605 feature brown thin solid line		

Point Symbology	Line Symbology	Area Symbology	
AQ010			AQ010
Line			
aerial cableway lines/ski lift lines			
Full Chart Symbology:			
	0657 gray thick dash line		
Simplified Symbology:			
	0657 gray thick dash line		
AQ020			AQ020
Point			
aerial cableway pylon/ski pylon			
Full Chart Symbology: 0024 black dot inside cir			
Simplified Symbology: 0024 black dot inside cir			

DNC

Point Symbology	Line Symbology	Area Symbology
AQ040		AQ04
Area		
bridge/overpass/viaduct		bsc<>12 AND bot<>4and<>10and<>11
Full Chart Symbology:		
	0611 gray thick solid line	
Simplified Symbology:	0611 gray thick solid line	
bridge/overpass/viaduct		bsc=12 OR bot=4or10or11
Full Chart Symbology: 0046 magenta small circle inside circle	0611 gray thick solid line	
Simplified Symbology: 0046 magenta small circle inside circle	0611 gray thick solid line	
Line		
bridge/overpass/viaduct		bsc<>12 AND bot<>4and<>10and<>11
Full Chart Symbology:		
3 83	0627 gray very thick solid	line
Simplified Symbology:		
	0627 gray very thick solid	ine
bridge/overpass/viaduct		bsc=12 OR bot=4or10or11
Full Chart Symbology:		
	0753 very thck gray line wa	cntrd magenta dbl
Simplified Symbology:		

0753 very thck gray line w/ cntrd magenta dbl

Point Symbology	Line Symbology	Area Symbology
AQ045		AQ045
Area		
bridge span		
Full Chart Symbology:	0611 gray thick solid line	
Simplified Symbology:	0611 gray thick solid line	
Line		
bridge span		
Full Chart Symbology:	0627 gray very thick solid line	
Simplified Symbology:	0627 gray very thick solid line	
AQ060		AQ060
Point		
control tower		
Full Chart Symbology: 0004 black tower symbol		
Simplified Symbology: 0004 black tower symbol		
AQ070		AQ070
Line		
ferry crossing - with cables	fer=1	
Full Chart Symbology:	0701 black dash very thin line w/ boat shape	
Simplified Symbology:	0701 black dash very thin line w/ boat shape	
ferry crossing - without cables	fer=2	
Full Chart Symbology:	0700 magenta dash very thin line w/ boat shape	
Simplified Symbology:	0700 magenta dash very thin line w/ boat shape	

DNC

Point Symbology

AQ080

Point

ferry site

Full Chart Symbology:
0096 magenta square w/ i

Simplified Symbology:
0096 magenta square w/ i

AQ110 AQ110

Point

mooring mast

Full Chart Symbology:

0026 black tall slender triangle w/ cir at bottom

Simplified Symbology:

0026 black tall slender triangle w/ cir at bottom

Point Symbology	Line Symbology	Area Symbology
Q113		AQ113
ine		
pipeline/pipe - above ground	or over water	loc=25
Full Chart Symbology:		
	0610 gray solid line	
Simplified Symbology:	0610 gray solid line	
pipeline/pipe - not above grousewage or water	ınd or over water; not	loc<>25 AND pro<>95and<>116 AND plt<>2and<>3
Full Chart Symbology:		
Tuli oliait dymbology.	0705 magenta dash very	thin line w/ cir
Simplified Symbology:		
	0705 magenta dash very	thin line w/ cir
pipeline/pipe - not above grou outfall, intake	und or over water; sewage,	loc<>25 AND pro=95 OR plt=2or3
Full Chart Symbology:		
	0704 gray dash very thir	line w/ sm cir
Simplified Symbology:	0704 gray dash very thir	line w/ sm cir
pipeline/pipe - not above grou		loc<>25 AND pro=116
Full Chart Symbology:		
i dii oliait oyilibology.	0704 gray dash very thir	line w/ sm cir
Simplified Symbology:		
	0704 gray dash very thir	line w/ sm cir

DNC

Point Symbology	Line Symbology	Area Symbology	
AQ116			AQ116

Area

pumping station

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Point

pumping station

Full Chart Symbology:

0002 feature brown filled square w/ black outline

Simplified Symbology:

0002 feature brown filled square w/ black outline

AQ130 AQ130

Line

tunnel

Full Chart Symbology:	
	0656 gray very thin dash line
Simplified Symbology:	
	0656 gray very thin dash line

AT005 AT005

Line

cable

Full Chart Symbology:	
	0708 magenta broken zig-zag line w/ flash symbol
Simplified Symbology:	
	0708 magenta broken zig-zag line w/ flash symbol

DNC

Point Symbology	Line Symbology	Area Symbology	
AT010			AT010
Point			
disk/dish			
Full Chart Symbology: 2102 black satellite dish symbol			
Simplified Symbology: 2102 black satellite dish symbol			
AT020			AT020
Area			
early warning radar site			
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:	0600 black very thin solid line	0804 brown solid fill	
AT030			AT030
Line			
power transmission line			
Full Chart Symbology:	0657 gray thick dash line		
Simplified Symbology:	0657 gray thick dash line		
AT040			AT040

Point

power transmission pylon

Full Chart Symbology: 0024 black dot inside cir

Simplified Symbology:

0024 black dot inside cir

DNC

Point Symbology Line Symbology **Area Symbology** AT045 AT045 **Point** radar transmitter - dome ssc=87 Full Chart Symbology: 0028 black dome inside lg magenta circle Simplified Symbology: 0028 black dome inside lg magenta circle radar transmitter - mast ssc=60 **Full Chart Symbology:** 0030 black triangle w/ in lg magenta cir Simplified Symbology: 0030 black triangle w/ in lg magenta cir radar transmitter - other, unknown ssc=0or999 Full Chart Symbology: 0511 lg magenta cir Simplified Symbology: 0511 Ig magenta cir ssc=108 radar transmitter - scanner Full Chart Symbology: 0029 black rectangle below T in Ig magenta cir Simplified Symbology: 0029 black rectangle below T in Ig magenta cir radar transmitter - tower ssc=107 Full Chart Symbology: 0031 black tower inside Ig magenta cir Simplified Symbology: 0031 black tower inside Ig magenta cir AT050 AT050 **Point** communication building

Full Chart Symbology:

0033 feature brown fill sqr black otln in lg mgnta cir

Simplified Symbology:

0033 feature brown fill sqr black otln in Ig mgnta cir

Point Symbology	Line Symbology	Area Symbology
AT060		AT060
Line		
telephone line/telegraph line		
Full Chart Symbology:	0657 gray thick dash line	
Simplified Symbology:	0657 gray thick dash line	
AT080		AT080
Point		
communication tower		
Full Chart Symbology: 0004 black tower symbol		
Simplified Symbology: 0004 black tower symbol		
BA010		BA010
Line		
coastline/shoreline - accurat	e; not mangrove or marsh acc	=1 AND slt<>6and<>8
Full Chart Symbology:	1573 dk gray very thin solid line	
Simplified Symbology:	1573 dk gray very thin solid line	
coastline/shoreline - approx	mate; not mangrove or marsh acc	=2 AND slt<>6and<>8
Full Chart Symbology:	0743 dk gray small open rectangl	le dash line
Simplified Symbology:	0743 dk gray small open rectangl	le dash line
coastline/shoreline - mangro		=6or8
Full Chart Symbology:	0632 dk gray very thin dash line	
Simplified Symbology:	0632 dk gray very thin dash line	

DNC

Point Symbology Line Symbology Area Symbology **BA020 BA020**

Area

foreshore

Full Chart Symbology:		
	0803 yellow green solid fill	
Simplified Symbology:		
	0803 yellow green solid fill	

foreshore - shallow display mode on

oreshore - shallow display mode on	isdm=1
Full Chart Symbology:	0949 depth gray diamond patt fill
Simplified Symbology:	0949 depth gray diamond patt fill

Line

foreshore

Full Chart Symbology:		
	0608 depth gray very thin solid line	
Simplified Symbology:		
	0608 depth gray very thin solid line	

Point

foreshore

Full Chart Symbology:	
-----------------------	--

0150 yellow-green filled sm cir w/ gray outline

Simplified Symbology:

0150 yellow-green filled sm cir w/ gray outline

DNC

Point Symbology	Line Symbology	Area Symbology	
BA030			BA030
Area			
island			
Full Chart Symbology:			
		0822 It brown solid fill	

0822 It brown solid fill

Point

island

Full Chart Symbology:

Simplified Symbology:

0035 It brown sm filled cir w/ gray outline

Simplified Symbology:

0035 It brown sm filled cir w/ gray outline

BA040 BA040

Area

water (except inland)

Full Chart Symbology:	
	0805 depth white fill
Simplified Symbology:	
	0805 depth white fill

Point Symbology	Line Symbology	Area Symbology
B010		BB010
rea		
anchorage - anchoring berth	mac=12	
Full Chart Symbology: 0037 magenta anchor w/ sm cir on shaft	3000 It magenta thin dash line	
Simplified Symbology: 0037 magenta anchor w/ sm cir on shaft	3000 It magenta thin dash line	
anchorage - not anchoring berth	mac<>12	
Full Chart Symbology: 0902 It magenta anchor	0711 magenta dash/chevron line w/anchor symbol	
Simplified Symbology: 0902 It magenta anchor	3000 It magenta thin dash line	
ine		
anchorage - anchoring berth	mac=12	
Full Chart Symbology:	3000 It magenta thin dash line	
Simplified Symbology:	3000 It magenta thin dash line	
anchorage - not anchoring berth	mac<>12	
Full Chart Symbology:	0711 magenta dash/chevron line w/anchor symbol	
Simplified Symbology:	3000 It magenta thin dash line	
oint		
anchorage - anchoring berth	mac=12	
Full Chart Symbology: 0037 magenta anchor w/ sm cir on shaft		
Simplified Symbology: 0037 magenta anchor w/ sm cir on shaft		
anchorage - not anchoring berth	mac<>12	
Full Chart Symbology: 0036 magenta anchor		
Simplified Symbology: 0036 magenta anchor		

Point Symbology	Line Symbology	Area Symbology
BB020		BB020
Point		
berth		
Full Chart Symbology: 0032 magenta circle		
Simplified Symbology: 0032 magenta circle		
BB030		BB030
Point		
bollard		
Full Chart Symbology: 0051 black filled sm cir		
Simplified Symbology: 0051 black filled sm cir		

Point Symbology	Line Symbology	Area Symbology	
BB040			BB040
Area			
breakwater/groyne - partly si	ubmerged at high water	vrr=1	
Full Chart Symbology:			
	0623 dk gray thin solid line	;	
Simplified Symbology:			
	0623 dk gray thin solid line	<u> </u>	
breakwater/groyne - submer	ged, covers and uncovers	vrr=4or8	
Full Chart Symbology:			
	0626 dk gray thin dash line)	
Simplified Symbology:			
	0626 dk gray thin dash line	}	
Line			
breakwater/groyne - partly su	ubmerged at high water	vrr=1	
Full Chart Symbology:			
	0623 dk gray thin solid line	¢.	
Simplified Symbology:			
	0623 dk gray thin solid line	,	
breakwater/groyne - submer	ged, covers and uncovers	vrr=4or8	
Full Chart Symbology:			
	0626 dk gray thin dash line)	
Simplified Symbology:			
	0626 dk gray thin dash line	3	

Point Symbology	Line Symbology	Area Symbology	
3B050			BB050
Point			
calling-in point - direction of	traffic unknown	df1=0	
Full Chart Symbology: 0041 magenta cir w/ 2 cones and 2	?		
Simplified Symbology: 0041 magenta cir w/ 2 cones and 2	?		
calling-in point - more than t	wo-way traffic, 1st direction	df3<>0	
Full Chart Symbology: 0039 traffic magenta cir w/ 1 cone			
Simplified Symbology: 0039 traffic magenta cir w/ 1 cone			
calling-in point - more than t	wo-way traffic, 2nd direction	df3<>0	
Full Chart Symbology: 0039 traffic magenta cir w/ 1 cone			
Simplified Symbology: 0039 traffic magenta cir w/ 1 cone			
calling-in point - more than t	wo-way traffic, 3rd direction	df3<>0	
Full Chart Symbology: 0039 traffic magenta cir w/ 1 cone			
Simplified Symbology: 0039 traffic magenta cir w/ 1 cone			
calling-in point - more than t	wo-way traffic, 4th direction	df4<>0	
Full Chart Symbology: 0039 traffic magenta cir w/ 1 cone			
Simplified Symbology: 0039 traffic magenta cir w/ 1 cone			
calling-in point - one way tra	ffic	df1<>0 AND df2=0	
Full Chart Symbology: 0039 traffic magenta cir w/ 1 cone			
Simplified Symbology: 0039 traffic magenta cir w/ 1 cone			
calling-in point - two way tra	ffic	df2<>0 AND df3=0	
Full Chart Symbology: 0040 traffic magenta cir w/ 2 cones			
Simplified Symbology: 0040 traffic magenta cir w/ 2 cones			

DNC

Point Symbology	Line Symbology	Area Symbology
BB080		BB08

Point

dolphin

Full Chart Symbology:

0038 It brown filled square w/ black outline

Simplified Symbology:

0038 It brown filled square w/ black outline

BB090 BB090

Area

drydock

Full Chart Symbology:			
	1573 dk gray very thin solid line	0822 It brown solid fill	
Simplified Symbology:			
	1573 dk gray very thin solid line	0822 It brown solid fill	

BB100 BB100

Line

fish stakes

Full Chart Symbology:	
	0712 gray L complex line
Simplified Symbology:	
	0712 gray L complex line

BB105 BB105

Point

fishing harbor

Full Chart Symbology:

0042 magenta fish w/ arcs above and below

Simplified Symbology:

0042 magenta fish w/ arcs above and below

BB110 BB110

Area

fish traps/fish weirs

Full Chart Symbology:		
0047 gray rectangle w/ angle line on top	0716 gray dash/chevron line	
Simplified Symbology:		
	0656 gray very thin dash line	0903 gray fish trap patt fill

Point Symbology	Line Symbology	Area Symbology	
BB115			BB115
Area			
gridiron			
Full Chart Symbology:	0656 gray very thin dash lir	ne	
Simplified Symbology:	0656 gray very thin dash lir	ie	
BB140			BB140
Area			
jetty - partly submerged at high wa	ter	vrr=1	
Full Chart Symbology:	0623 dk gray thin solid line		
Simplified Symbology:	0623 dk gray thin solid line		
jetty - submerged, covers and unco	overs	vrr=4or8	
Full Chart Symbology:	0626 dk gray thin dash line		
Simplified Symbology:	0626 dk gray thin dash line		
Line			
jetty - partly submerged at high wa	ter	vrr=1	
Full Chart Symbology:	0623 dk gray thin solid line		
Simplified Symbology:	0623 dk gray thin solid line		
jetty - submerged, covers and unco		vrr=4or8	
Full Chart Symbology:	0626 dk gray thin dash line		
Simplified Symbology:	0626 dk gray thin dash line		

DNC

Point Symbology Line Symbology Area Symbology

BB150

BB150

Area

landing place

Full Chart Symbology:		
0043 magenta yacht inside lg cir	0604 feature brown very thin solid line	0804 brown solid fill
Simplified Symbology:		
0043 magenta yacht inside Ig cir	0604 feature brown very thin solid line	0804 brown solid fill

Point

landing place

Full Chart Symbology: 0043 magenta yacht inside lg cir

Simplified Symbology:

0043 magenta yacht inside Ig cir

BB160 BB160

Point

mooring ring

Full Chart Symbology:

0038 It brown filled square w/ black outline

Simplified Symbology:

0038 It brown filled square w/ black outline

DNC

Simplified Symbology: 0500 magenta flare

Point Symbology	Line Symbology	Area Symbology	
BB170			BB170
Area			
offshore loading facility			
Full Chart Symbology:	0625 dk gray thick solid line	0804 brown solid fill	
Simplified Symbology:	0625 dk gray thick solid line	0804 brown solid fill	
Line			
offshore loading facility			
Full Chart Symbology:	0625 dk gray thick solid line		
Simplified Symbology:	0625 dk gray thick solid line		
Point			
offshore loading facility			
Full Chart Symbology: 0044 black installation buoy			
Simplified Symbology: 0311 black mooring/installation buoy			
offshore loading facility - light	cha=2	1	
Full Chart Symbology: 0500 magenta flare			

DNC

Point Symbology	Line Symbology	Area Symbology	
BB180			BB180

Area

oyster bed/mussel bed

Full Chart Symbology:			
	0716 gray dash/chevron line	0904 gray fish in net patt fill	
Simplified Symbology:			
	0656 gray very thin dash line	0904 gray fish in net patt fill	

Point

oyster bed/mussel bed

Full Chart Symbology: 0045 gray fish inside net	
Simplified Symbology: 0045 gray fish inside net	

BB190 BB190

Area

pier/wharf/quay

Full Chart Symbology:		
	0625 dk gray thick solid line	
Simplified Symbology:		
	0625 dk gray thick solid line	

Line

pier/wharf/quay

Full Chart Symbology:	
	0625 dk gray thick solid line
Simplified Symbology:	
	0625 dk gray thick solid line

Point Symbology	Line Symbology	Area Symbology
BB220		BB220
Area		
ramp (maritime) - partly subm	erged at high water	vrr=1
Full Chart Symbology:	المانا المانا مناطلا معادما الم	
Simplified Symbology:	0623 dk gray thin solid lir	ie .
Simplified Symbology.	0623 dk gray thin solid lir	ne
ramp (maritime) - submerged	, covers and uncovers	vrr=4or8
Full Chart Symbology:	0626 dk gray thin dash lir	ne
Simplified Symbology:	المام ما ما المام	
	0626 dk gray thin dash lir	ne
Line		
ramp (maritime) - partly subm	erged at high water	vrr=1
Full Chart Symbology:	0623 dk gray thin solid lir	ne
Simplified Symbology:	0623 dk gray thin solid lir	ne
ramp (maritime) - submerged	, covers and uncovers	vrr=4or8
Full Chart Symbology:		
	0626 dk gray thin dash lir	ne
Simplified Symbology:	0626 dk gray thin dash lir	ne
BB230		BB230
Line		
seawall		
Full Chart Symbology:	0623 dk gray thin solid lir	ne
Simplified Symbology:		
	0623 dk gray thin solid lir	10

Point Symbology	Line Symbology		Area Symbology	
B240				BB240
ne				
<mark>slipway/patent slip - partly s</mark>	ubmerged at high water	vrr=1		
Full Chart Symbology:				
	0623 dk gray thin solid lin	е		
Simplified Symbology:				
	0623 dk gray thin solid lin	е		
slipway/patent slip - subme	ged, covers and uncovers	vrr=4or8		
Full Chart Symbology:				
	0626 dk gray thin dash lir	ne		
Simplified Symbology:			_	
	0626 dk grav thin dash lir	ie		

Point Symbology	Line Symbology	Area Symbology
BC010		BC01
Point		
beacon - base		
Full Chart Symbology: 0100 black beacon/buoy base		
Simplified Symbology: 0101 yellow rectangle w/ outline black outline	ne	
beacon - broom point up		tmc=17
Full Chart Symbology: 0188 black topmark broom up		
beacon - can		tmc=25or26or29
Full Chart Symbology: 0133 black topmark can		
beacon - default topmark		tmc=0or32
Full Chart Symbology: 0199 black default topmark upright		
beacon - one ball		tmc=15or27or28
Full Chart Symbology: 0130 black topmark one ball		
beacon - one cone down		tmc=22
Full Chart Symbology: 0124 black topmark one cone down		
beacon - one cone up		tmc=16or21
Full Chart Symbology: 0122 black topmark one cone up		
beacon - perch		tmc=18
Full Chart Symbology: 0187 black topmark perch		
beacon - radar navigation system		nst=10or54
Full Chart Symbology: 0512 lg magenta dashed cir		
Simplified Symbology: 0512 lg magenta dashed cir		

Point Symbology	Line Symbology	Area Symbology	
BC010			BC010
beacon - radar reflector present		ref=1	
Full Chart Symbology: 0510 magenta arc w/ 5 ticks pointing upward			
Simplified Symbology: 0510 magenta arc w/ 5 ticks pointing upward			
beacon - radar station		nst=45	
Full Chart Symbology: 0009 feature brown dot inside cir			
Simplified Symbology: 0009 feature brown dot inside cir			
beacon - radio navigation system		nst=1or4or5or17or41or51or53	
Full Chart Symbology: 0511 lg magenta cir			
Simplified Symbology: 0511 lg magenta cir			
beacon - rhombus/diamond		tmc=19or31	
Full Chart Symbology: 0114 black topmark open parallelogram			
beacon - sound signal		sst=1or2or3or4or6or9or14or15	
Full Chart Symbology: 0401 It magenta arcs origin offset - maximum			
Simplified Symbology: 0401 It magenta arcs origin offset - maximum			
beacon - special (x)		tmc=6	
Full Chart Symbology: 0185 black topmark special X			
beacon - two balls		tmc=2	
Full Chart Symbology: 0132 black topmark two balls			
beacon - two cones down		tmc=8	
Full Chart Symbology: 0126 black topmark two cones down			
beacon - two cones in		tmc=9	
Full Chart Symbology: 0128 black topmark two cones point in			

Point Symbology	Line Symbology	Area Symbology	
BC010			BC010
beacon - two cones out		tmc=1	
Full Chart Symbology: 0127 black topmark two cones point out			
beacon - two cones up		tmc=3	
Full Chart Symbology: 0125 black topmark two cones up			
beacon - upright cross		tmc=23or30	
Full Chart Symbology: 0186 black topmark cross			

Point Symbology	Line Symbology	Area Symbology	
BC020			BC020
Point			
buoy - articulated light (base)		btc=35	
Full Chart Symbology: 0051 black filled sm cir			
Simplified Symbology: 0051 black filled sm cir			
buoy - barrel; type unknown		btc=0 AND ssc=1	
Full Chart Symbology: 0301 black barrel buoy			
Simplified Symbology: 0313 yellow circle w/ outline black outlin	ne		
buoy - can; type unknown		btc=0 AND ssc=7	
Full Chart Symbology: 0302 black can buoy			
Simplified Symbology: 0313 yellow circle w/ outline black outlin	ne		
buoy - can		tmc=25or26or29	
Full Chart Symbology: 0213 black buoy topmark can			
buoy - conical; type unknown		btc=0 AND ssc=6	
Full Chart Symbology: 0303 black cone buoy			
Simplified Symbology: 0313 yellow circle w/ outline black outlin	ne		
buoy - default topmark		tmc=0or17or18or32	
Full Chart Symbology: 0299 black buoy default topmark			
buoy - default; type unknown		btc=0 AND ssc=0or85or999	
Full Chart Symbology: 0300 black default buoy beside magenta	a ?		
Simplified Symbology: 0313 yellow circle w/ outline black outlin	ne		

Point Symbology	Line Symbology	Area Symbology
C020		BC020
buoy - LANBY	b	tc=4
Full Chart Symbology: 0310 black lanby		
Simplified Symbology: 0312 black superbuoy - simplified		
buoy - light float	b	tc=6
Full Chart Symbology: 0513 black it float		
Simplified Symbology: 0515 black It float, simplified		
buoy - mooring; barrel	b	tc=7 AND ssc=1
Full Chart Symbology: 0304 black mooring barrel buoy		
Simplified Symbology: 0311 black mooring/installation buoy		
buoy - mooring; not barrel, no	t can b	tc=7 AND ssc<>1and<>7
Full Chart Symbology: 0311 black mooring/installation buoy		
Simplified Symbology: 0311 black mooring/installation buoy		
buoy - mooring;can	b	tc=7 AND ssc=7
Full Chart Symbology: 0305 black mooring can buoy		
Simplified Symbology: 0311 black mooring/installation buoy		
<mark>buoy - non-pillar; radar naviga</mark>	tion system n	st=10or54 AND ssc<>10
Full Chart Symbology: 0512 Ig magenta dashed cir		
Simplified Symbology: 0512 Ig magenta dashed cir		
b <mark>uoy - non-pillar; radio naviga</mark>	tion system n	st=1or4or5or17or41or51or53 AND ssc<>10
Full Chart Symbology: 0511 Ig magenta cir		
Simplified Symbology: 0511 lg magenta cir		

Point Symbology	Line Symbology	Area Symbology
BC020		BC020
buoy - ODAS		btc=10
Full Chart Symbology: 0309 black superbuoy		
Simplified Symbology: 0312 black superbuoy - simplified		
buoy - one ball		tmc=15or27or28
Full Chart Symbology: 0210 black buoy topmark one ball		
buoy - one cone down		tmc=22
Full Chart Symbology: 0204 black buoy topmark one cone down	1	
buoy - one cone up		tmc=16or21
Full Chart Symbology: 0202 black buoy topmark one cone up		
buoy - pillar; radar navigation sys	stem	nst=10or54 AND ssc=10
Full Chart Symbology: 4326 lg magenta dashed cir		
Simplified Symbology: 0512 lg magenta dashed cir		
buoy - pillar; radio navigation sys	stem	nst=1or4or5or17or41or51or53 AND ssc=10
Full Chart Symbology: 4325 lg magenta cir		
Simplified Symbology: 0511 lg magenta cir		
buoy - pillar; type unknown		btc=0 AND ssc=10
Full Chart Symbology: 0306 black pillar buoy		
Simplified Symbology: 0313 yellow circle w/ outline black outline		
buoy - radar reflector present		ref=1
Full Chart Symbology: 0510 magenta arc w/ 5 ticks pointing upw	<i>v</i> ard	
Simplified Symbology: 0510 magenta arc w/ 5 ticks pointing upw	vard	

Point Symbology	Line Symbology	Area Symbology	
3C020			BC020
buoy - radar station		nst=45	
Full Chart Symbology: 0009 feature brown dot inside cir			
Simplified Symbology: 0009 feature brown dot inside cir			
buoy - rhombus/diamond		tmc=19or31	
Full Chart Symbology: 0214 black buoy topmark open parallelogram			
buoy - sound signal		sst=1or2or3or4or6or9or14or15	
Full Chart Symbology: 0401 It magenta arcs origin offset - maximum			
Simplified Symbology: 0401 It magenta arcs origin offset - maximum			
buoy - spar; type unknown		btc=0 AND ssc=16	
Full Chart Symbology: 0308 black spar buoy			
Simplified Symbology: 0313 yellow circle w/ outline black outline			
buoy - special (x)		tmc=6	
Full Chart Symbology: 0265 black buoy topmark special X			
buoy - sphere; type unknown		btc=0 AND ssc=17	
Full Chart Symbology: 0307 black spherical buoy			
Simplified Symbology: 0313 yellow circle w/ outline black outline			
buoy - superbuoy; type unknown		btc=0 AND ssc=73	
Full Chart Symbology: 0309 black superbuoy			
Simplified Symbology: 0312 black superbuoy - simplified			
buoy - two balls		tmc=2	
Full Chart Symbology: 0212 black buoy topmark two balls			

Point Symbology	Line Symbology	Area Sy	ymbology
BC020			BC020
buoy - two cones down		tmc=8	
Full Chart Symbology: 0206 black buoy topmark two cones down			
buoy - two cones in		tmc=9	
Full Chart Symbology: 0208 black buoy topmark two cones point in			
buoy - two cones out		tmc=1	
Full Chart Symbology: 0207 black buoy topmark two cones point out			
buoy - two cones up		tmc=3	
Full Chart Symbology: 0205 black buoy topmark two cones up			
buoy - upright cross		tmc=23or30	
Full Chart Symbology: 0217 black buoy topmark upright cross			

Point Symbology	Line Symbology	Area Symbology	
BC040			BC040
Line			
light			
Full Chart Symbology:	0713 magenta compressed zig-	-zag line	
Simplified Symbology:	0713 magenta compressed zig-	-zag line	
Point			
light - base symbol			
Full Chart Symbology: 0051 black filled sm cir			
Simplified Symbology: 0051 black filled sm cir			
light - broom point up	tn	nc=17	
Full Chart Symbology: 0188 black topmark broom up			
light - can	tn	nc=25or26or29	
Full Chart Symbology: 0133 black topmark can			
light - default topmark	tn	nc=0or32	
Full Chart Symbology: 0199 black default topmark upright			
light - one ball	tn	nc=15or27or28	
Full Chart Symbology: 0130 black topmark one ball			
light - one cone down	tn	nc=22	
Full Chart Symbology: 0124 black topmark one cone down			
light - one cone up	tn	nc=16or21	
Full Chart Symbology: 0122 black topmark one cone up			
light - perch	tn	nc=18	
Full Chart Symbology: 0187 black topmark perch			

Point Symbology	Line Symbology	Area Symbology	
C040			BC040
light - radar navigation system		nst=10or54	
Full Chart Symbology: 0512 Ig magenta dashed cir			
Simplified Symbology: 0512 Ig magenta dashed cir			
light - radar reflector present		ref=1	
Full Chart Symbology: 0510 magenta arc w/ 5 ticks pointing upward			
Simplified Symbology: 0510 magenta arc w/ 5 ticks pointing upward			
light - radar station		nst=45	
Full Chart Symbology: 0009 feature brown dot inside cir			
Simplified Symbology: 0009 feature brown dot inside cir			
light - radio navigation system		nst=1or4or5or17or41or51or53	
Full Chart Symbology: 0511 lg magenta cir			
Simplified Symbology: 0511 lg magenta cir			
light - rhombus/diamond		tmc=19or31	
Full Chart Symbology: 0114 black topmark open parallelogram			
light - sound signal		sst=1or2or3or4or6or9or14or15	
Full Chart Symbology: 0401 It magenta arcs origin offset - maximum			
Simplified Symbology: 0401 It magenta arcs origin offset - maximum			
light - special (x)		tmc=6	
Full Chart Symbology: 0185 black topmark special X			
light - two balls		tmc=2	
Full Chart Symbology: 0132 black topmark two balls			

Area Symbology

Line Symbology

DNC

Point Symbology

BC040	BC040
light - two cones down	tmc=8
Full Chart Symbology: 0126 black topmark two cones down	
light - two cones in	tmc=9
Full Chart Symbology: 0128 black topmark two cones point in	
light - two cones out	tmc=1
Full Chart Symbology: 0127 black topmark two cones point out	
light - two cones up	tmc=3
Full Chart Symbology: 0125 black topmark two cones up	
light - upright cross	tmc=23or30
Full Chart Symbology: 0186 black topmark cross	
BC055	BC055
Point	
marker	
Full Chart Symbology: 0151 magenta box above inverted T with open cir	
Simplified Symbology: 0152 magenta box w/ dot and line below	
BC060	BC060
Area	
light sector	
Full Chart Symbology: 3116 bla	ck very thin dash line
Simplified Symbology:	

3116 black very thin dash line

Point Symbology	Line Symbology	Area Symbology	
C070			BC070
oint			
light vessel/lightship			
Full Chart Symbology: 0514 black it vessel			
Simplified Symbology: 0516 black It vessel, simplified			
l <mark>ight vessel/lightship - rada</mark>	r navigation system	nst=10or54	
Full Chart Symbology: 0512 Ig magenta dashed cir			
Simplified Symbology: 0512 Ig magenta dashed cir			
<mark>light vessel/lightship - rada</mark>	r reflector present	ref=1	
Full Chart Symbology: 0510 magenta arc w/ 5 ticks point	ting upward		
Simplified Symbology: 0510 magenta arc w/ 5 ticks point	ting upward		
<mark>light vessel/lightship - rada</mark>	r station	nst=45	
Full Chart Symbology: 0009 feature brown dot inside cir			
Simplified Symbology: 0009 feature brown dot inside cir			
<mark>light vessel/lightship - radio</mark>	navigation system	nst=1or4or5or17or41or51or53	
Full Chart Symbology: 0511 lg magenta cir			
Simplified Symbology: 0511 lg magenta cir			
l <mark>ight vessel/lightship - sou</mark> n	nd signal	sst=1or2or3or4or6or9or14or15	
Full Chart Symbology: 0401 It magenta arcs origin offset	- maximum		
Simplified Symbology: 0401 It magenta arcs origin offset	- maximum		

DNC

Point Symbology	Line Symbology	Area Symbology	
BC080			BC080
_			

Area

perches/stakes

Full Chart Symbology:			
	0680 black thin dotted line	0810 depth med blue solid fill	
Simplified Symbology:			
	0680 black thin dotted line	0810 depth med blue solid fill	

Point

perches/stakes

Full Chart Symbology:
0051 black filled sm cir

Simplified Symbology:
0051 black filled sm cir

BC100 BC100

Line

leading line

Full Chart Symbology:	
	0656 gray very thin dash line
Simplified Symbology:	
	0656 gray very thin dash line

DNC

Point Symbology Line Symbology Area Symbology **BD000 BD000** Area underwater danger/hazard - depth 20m or less hdp>0and<=20 **Full Chart Symbology:** 0680 black thin dotted line Simplified Symbology: 0680 black thin dotted line underwater danger/hazard - depth greater than 20m hdp>20 **Full Chart Symbology:** 0629 gray thin dash line Simplified Symbology: 0629 gray thin dash line hdp=0 underwater danger/hazard - depth unknown **Full Chart Symbology:** 0680 black thin dotted line 0810 depth med blue solid fill Simplified Symbology: 0680 black thin dotted line 0810 depth med blue solid fill underwater danger/hazard - not accurate acc<>1 Full Chart Symbology: 0058 black leader line w/ question mark Simplified Symbology: 0058 black leader line w/ question mark Point underwater danger/hazard - depth 20m or less hdp>0and<=20 **Full Chart Symbology:** 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology:

underwater danger/hazard - depth greater than 20m

hdp>20

Full Chart Symbology:

0054 lg black oval w/ dotted outline

0053 depth med blue fill Ig oval w/ black dot

Simplified Symbology:

0054 lg black oval w/ dotted outline

DNC

Point Symbology Line Symbology Area Symbology

BD000 BD000

underwater danger/hazard - depth unknown hdp=0

Full Chart Symbology:

 $0052\,$ depth med blue fill cir w/ black dotted outline

Simplified Symbology:

0052 depth med blue fill cir w/ black dotted

underwater danger/hazard - not accurate

acc<>1

Full Chart Symbology:

0058 black leader line w/ question mark

Simplified Symbology:

0058 black leader line w/ question mark

BD010 BD010

Area

breakers

Full Chart Symbology:	
0056 gray waves symbol	0656 gray very thin dash line
Simplified Symbology:	
0056 gray waves symbol	0656 gray very thin dash line

Line

breakers

Full Chart Symbology:		
	0752 gray very thin dash line w/ cntred waves	
Simplified Symbology:		
	0752 gray very thin dash line w/ cntred waves	

Point

breakers

Full Chart Symbology: 0056 gray waves symbol

Simplified Symbology: 0056 gray waves symbol

JLL brown solid fill brown solid fill JLL s yellow green solid fill
brown solid fill brown solid fill
brown solid fill brown solid fill
brown solid fill
brown solid fill
JLL
s vellow green solid fill
l vellow green solid fill
yenow green some mil
yellow green solid fill
nd<=20
depth med blue solid fill
Tacpar med blue solid lill

DNC

Point Symbology Line Symbology Area Symbology **BD020 BD020 Point** crib - covers and uncovers; depth null vrr=8 AND hdp=NULL Full Chart Symbology: 0055 yellow-green solid circle w/ black dot outline Simplified Symbology: 0055 yellow-green solid circle w/ black dot outline crib - not accurate acc<>1 **Full Chart Symbology:** 0058 black leader line w/ question mark Simplified Symbology: 0058 black leader line w/ question mark crib - partly submerged/dry; depth null vrr=1 AND hdp=NULL **Full Chart Symbology:** 0057 It brown square with dk gray outline Simplified Symbology: 0057 It brown square with dk gray outline crib - submerged; depth 20m or less vrr=4 AND hdp>0and<=20 **Full Chart Symbology:** 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology: 0053 depth med blue fill Ig oval w/ black dot crib - submerged; depth greater than 20m vrr=4 AND hdp>20 Full Chart Symbology: 0054 lg black oval w/ dotted outline Simplified Symbology: 0054 lg black oval w/ dotted outline crib - submerged; depth unknown vrr=4 AND hdp=0 Full Chart Symbology: 0052 depth med blue fill cir w/ black dotted outline Simplified Symbology: 0052 depth med blue fill cir w/ black dotted outline

DNC

Point Symbology	Line Symbology	Area Symbology
BD030		BD030

Area

discolored water

Full Chart Symbology:			
	0680 black thin dotted line	0810 depth med blue solid fill	
Simplified Symbology:			
	0680 black thin dotted line	0810 depth med blue solid fill	

discolored water - not accurate

0058 black leader line w/ question mark

Simplified Symbology:

Full Chart Symbology:

0058 black leader line w/ question mark

Point

discolored water

Full Chart Symbology:

 $0052\,$ depth med blue fill cir w/ black dotted outline

Simplified Symbology:

0052 depth med blue fill cir w/ black dotted outline

discolored water - not accurate

acc<>1

acc<>1

Full Chart Symbology:

0058 black leader line w/ question mark

Simplified Symbology:

0058 black leader line w/ question mark

DNC

Point Symbology	Line Symbology	Area Symbology
BD040		BD040

Area

eddies

Full Chart Symbology:	
0056 gray waves symbol	0656 gray very thin dash line
Simplified Symbology:	
0056 gray waves symbol	0656 gray very thin dash line

Point

eddies

Full Chart Symbology: 0056 gray waves symbol
Simplified Symbology:
0056 gray waves symbol

BD050 BD050

Area

foul ground

Full Chart Symbology: 0059 gray pound (#) symbol	0716 gray dash/chevron line
Simplified Symbology:	
0059 gray pound (#) symbol	0656 gray very thin dash line

Point

foul ground

Full Chart Symbology:	
0059 gray pound (#) symbol	
Simplified Symbology:	
0059 gray pound (#) symbol	

DNC

Point Symbology	Line Symbology	Area Symbology
BD060		BD060
Area		
kelp/seaweed		
Full Chart Symbology: 0060 gray kelp symbol	3077 It gray very thin dash line	

3077 It gray very thin dash line

Point

kelp/seaweed

Simplified Symbology: 0060 gray kelp symbol

Full Chart Symbology:
0060 gray kelp symbol

Simplified Symbology:
0060 gray kelp symbol

BD080 BD080

Area

overfalls/tide rips

Full Chart Symbology:	
0056 gray waves symbol	0656 gray very thin dash line
Simplified Symbology:	
0056 gray waves symbol	0656 gray very thin dash line

Point

overfalls/tide rips

Full Chart Syn 0056 gray way	
Simplified Syr	mbology:
0056 gray way	ves symbol

Point Symbology	Line Symbology	Aı	rea Symbology
0100			BD10
ea			
ile/piling/post - covers and uncove	ers	vrr=8	
Full Chart Symbology:	0626 dk gray thin dash line	08	03 yellow green solid fill
Simplified Symbology:	0626 dk gray thin dash line	08	03 yellow green solid fill
ile/piling/post - does not cover		vrr=1	
Full Chart Symbology:	0623 dk gray thin solid line	08	04 brown solid fill
Simplified Symbology:	0623 dk gray thin solid line	08	04 brown solid fill
ile/piling/post - not accurate		acc<>1	
Full Chart Symbology: 0058 black leader line w/ question mark			
Simplified Symbology: 0058 black leader line w/ question mark			
ile/piling/post - submerged		vrr=4	
Full Chart Symbology:	0680 black thin dotted line	08	10 depth med blue solid fill
Simplified Symbology:	0680 black thin dotted line	08	10 depth med blue solid fill
int			
ile/piling/post			
Full Chart Symbology: 0051 black filled sm cir			
Simplified Symbology: 0051 black filled sm cir			

Point Symbology	Line Symbology	Area Symbology
BD110		BD110
Point		
platform		
Full Chart Symbology: 0061 black dot inside square		
Simplified Symbology: 0061 black dot inside square		
platform - lighted	(:ha=21
Full Chart Symbology: 0500 magenta flare		
Simplified Symbology: 0500 magenta flare		
platform - radar navigation s	ystem	nst=10or54
Full Chart Symbology: 0512 lg magenta dashed cir	_	
Simplified Symbology: 0512 Ig magenta dashed cir		
platform - sound signal	ę	est<>16
Full Chart Symbology: 0402 It magenta arcs origin offset -	minimum	
Simplified Symbology: 0402 It magenta arcs origin offset -	minimum	

Point Symbology	Line Symbology	Area Symbology	
D120			BD120
rea			
reef - covers and uncovers, shallow	display mode on	vrr=8 AND isdm=1	
Full Chart Symbology:		2040 1 11 11 11 11 11 11 11	-
Simplified Symbology:		0949 depth gray diamond patt fill	
Simplified Symbology.		0949 depth gray diamond patt fill	
reef - covers and uncovers		vrr=8	
Full Chart Symbology:			
		0803 yellow green solid fill	
Simplified Symbology:		0803 yellow green solid fill	
reef - not covers and uncovers, dep	th unknown or null	vrr<>8 AND hdp=0orNULL	
Full Chart Symbology:		<u>_</u>	
	0680 black thin dotted line	0810 depth med blue solid fill	
Simplified Symbology:	0680 black thin dotted line	0810 depth med blue solid fill	
reef - not covers and uncovers, not	accurate	vrr<>8 AND acc<>1	
Full Chart Symbology: 0058 black leader line w/ question mark			
Simplified Symbology: 0058 black leader line w/ question mark			
reef - submerged, depth 20m or less	S	vrr=4 AND hdp>0and<=20	
Full Chart Symbology:	0000 block this dotted line		
Circulified Correlectory	0680 black thin dotted line		
Simplified Symbology:	0680 black thin dotted line		
reef - submerged, depth greater tha	n 20m	vrr=4 AND hdp>20	
Full Chart Symbology:			
	0629 gray thin dash line		
Simplified Symbology:	0629 gray thin dash line		

DNC

0062 black cross in dotted cir, depth med blue

Line Symbology **Point Symbology Area Symbology BD130 BD130 Point** hdp=NULL rock - depth null **Full Chart Symbology:** 0063 black 6 point asterisk Simplified Symbology: 0063 black 6 point asterisk rock - not accurate acc<>1 Full Chart Symbology: 0058 black leader line w/ question mark Simplified Symbology: 0058 black leader line w/ question mark rock - submerged; depth 20m or less vrr=4 AND hdp>0and<=20 **Full Chart Symbology:** 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology: 0053 depth med blue fill Ig oval w/ black dot outline vrr=4 AND hdp>20 rock - submerged; depth greater than 20m Full Chart Symbology: 0054 lg black oval w/ dotted outline Simplified Symbology: 0054 lg black oval w/ dotted outline rock - submerged; depth unknown vrr=4 AND hdp=0 Full Chart Symbology: 0062 black cross in dotted cir, depth med blue Simplified Symbology:

Point Symbology	Line Symbology	A	rea Symbology	
0140			ВІ	D140
ea				
nags/stumps - covers and uncovers	:	vrr=8		
Full Chart Symbology:				
	0626 dk gray thin dash line	30	803 yellow green solid fill	
Simplified Symbology:	0626 dk gray thin dash line	30	303 yellow green solid fill	
nags/stumps - does not cover		vrr=1		
Full Chart Symbology:	0623 dk gray thin solid line	O.	304 brown solid fill	
Simplified Symbology:	0020 dk gray tilii solid liile		504 BIOWIT SOILU IIII	
. 3 03	0623 dk gray thin solid line	30	304 brown solid fill	
nags/stumps - not accurate		acc<>1		
Full Chart Symbology: 0058 black leader line w/ question mark				
Simplified Symbology: 0058 black leader line w/ question mark				
nags/stumps - submerged		vrr=4		
Full Chart Symbology:	0680 black thin dotted line	30	310 depth med blue solid fill	
Simplified Symbology:	0680 black thin dotted line		310 depth med blue solid fill	
	ooo black thin dotted line		To deput filed blue solid fill	_
int	a dan da madi	O AND bylon	NII I	
nags/stumps - covers and uncovers	; depth null	vrr=8 AND hdp=	NULL	
Full Chart Symbology: 0055 yellow-green solid circle w/ black dot outline				
Simplified Symbology: 0055 yellow-green solid circle w/ black dot outline				
nags/stumps - not accurate		acc<>1		
Full Chart Symbology: 0058 black leader line w/ question mark				
Simplified Symbology:				

DNC

Point Symbology Line Symbology Area Symbology **BD140 BD140** snags/stumps - partly submergerd/dry; depth null vrr=1 AND hdp=NULL **Full Chart Symbology:** 0057 It brown square with dk gray outline Simplified Symbology: 0057 It brown square with dk gray outline snags/stumps - submerged; depth 20m or less vrr=4 AND hdp>0and<=20 Full Chart Symbology: 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology: 0053 depth med blue fill Ig oval w/ black dot outline snags/stumps - submerged; depth greater than 20m vrr=4 AND hdp>20 **Full Chart Symbology:** 0054 lg black oval w/ dotted outline Simplified Symbology: 0054 lg black oval w/ dotted outline snags/stumps - submergerd; depth unknown vrr=4 AND hdp=0 **Full Chart Symbology:** 0052 depth med blue fill cir w/ black dotted outline Simplified Symbology: 0052 depth med blue fill cir w/ black dotted outline

Point Symbology	Line Symbology	Area Symbology
D180		BD180
rea		
vreck - covers and uncovers; depth	null vrr=8	AND hdp=NULL
Full Chart Symbology:	0626 dk gray thin dash line	0803 yellow green solid fill
Simplified Symbology:	0626 dk gray thin dash line	0803 yellow green solid fill
vreck - does not cover; depth null	vrr=1	AND hdp=NULL
Full Chart Symbology:	0623 dk gray thin solid line	0804 brown solid fill
Simplified Symbology:	0623 dk gray thin solid line	0804 brown solid fill
vreck - submerged; depth 20m or le	ss vrr=4	AND hdp>0and<=20
Full Chart Symbology:	0680 black thin dotted line	
Simplified Symbology:	0680 black thin dotted line	
vreck - submerged; depth greater th	nan 20m vrr=4	AND hdp>20
Full Chart Symbology:	3117 black thin dash line	
Simplified Symbology:	3117 black thin dash line	
vreck - submerged; depth unknown	vrr=4	AND hdp=0
Full Chart Symbology:	0630 dk gray thin dotted line	0810 depth med blue solid fill
Simplified Symbology:	0630 dk gray thin dotted line	0810 depth med blue solid fill
vreck - unknown; awash; depth null	l vrr=0	or2 AND hdp=NULL
Full Chart Symbology:	0630 dk gray thin dotted line	0810 depth med blue solid fill
Simplified Symbology:	0630 dk gray thin dotted line	0810 depth med blue solid fill
	g.a, aattaalo	

DNC

Point Symbology Line Symbology Area Symbology **BD180 BD180 Point** wreck - not accurate acc<>1 Full Chart Symbology: 0058 black leader line w/ question mark Simplified Symbology: 0058 black leader line w/ question mark wreck - not submerged; depth null hdp=NULL AND vrr=1or2or8 **Full Chart Symbology:** 0064 gray wreck symbol Simplified Symbology: 0064 gray wreck symbol wreck - showing mast/hull/superstructure; depth null loc<>4 AND hdp=NULL **Full Chart Symbology:** 0064 gray wreck symbol Simplified Symbology: 0064 gray wreck symbol wreck - submerged; dangerous; depth unknown vrr=4 AND soh=1 AND hdp=0 Full Chart Symbology: 0065 blck bar 3 ticks in dotted depth med blue oval Simplified Symbology: 0065 blck bar 3 ticks in dotted depth med blue wreck - submerged; depth 20m or less vrr=4 AND hdp>0and<=20 Full Chart Symbology: 0053 depth med blue fill Ig oval w/ black dot outline Simplified Symbology: 0053 depth med blue fill Ig oval w/ black dot vrr=4 AND hdp>20 wreck - submerged; depth greater than 20m Full Chart Symbology: 0054 lg black oval w/ dotted outline Simplified Symbology: 0054 Ig black oval w/ dotted outline

DNC

Point Symbology Line Symbology **Area Symbology BD180 BD180** wreck - submerged; not dangerous; depth unknown vrr=4 AND soh=2 AND hdp=0 Full Chart Symbology: 0066 black horiz bar w/3 ticks Simplified Symbology: 0066 black horiz bar w/3 ticks wreck - unknown; depth null hdp=NULL AND vrr=0 Full Chart Symbology: 0065 blck bar 3 ticks in dotted depth med blue Simplified Symbology: 0065 blck bar 3 ticks in dotted depth med blue oval

Point Symbology	Line Symbology	Area Symbology
E010		BE010
rea		
depth area (deep water); 2 shade	es	idsm=1 AND cvl>=ssdcand<>99999
Full Chart Symbology:		0805 depth white fill
Simplified Symbology:		0805 depth white fill
depth area (medium deep); 4 sha	ades	idsm=0 AND cvl>=ssdcand <msdc< td=""></msdc<>
Full Chart Symbology:		0820 depth pale blue solid fill
Simplified Symbology:		0820 depth pale blue solid fill
depth area (medium shallow); 4	shades; shallow mode off	idsm=0 AND isdm=0 AND cvl>=msscand <ssdc< td=""></ssdc<>
Full Chart Symbology:		0821 depth It blue solid fill
Simplified Symbology:		0821 depth It blue solid fill
depth area (medium shallow); 4	shades; shallow mode on	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""></ssdc<>
Full Chart Symbology:		0821 depth It blue solid fill
Simplified Symbology:		0821 depth It blue solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
depth area (very deep); 4 shades	3	idsm=0 AND cvl>=msdcand<>99999
Full Chart Symbology:		0805 depth white fill
Simplified Symbology:		0805 depth white fill
depth area (very shallow); 2 sha	des; shallow mode off	idsm=1 AND isdm=0 AND cvl <ssdc< td=""></ssdc<>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
		22.2 2252

Point Symbology	Line Symbology	Area Symbology
:010		BE01
epth area (very shallow); 2	shades; shallow mode on	idsm=1 AND isdm=1 AND cvl <ssdc< td=""></ssdc<>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
epth area (very shallow); 4	shades; shallow mode off	idsm=0 AND isdm=0 AND cvl <mssc< td=""></mssc<>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
epth area (very shallow); 4	shades; shallow mode on	idsm=0 AND isdm=1 AND cvl <mssc< td=""></mssc<>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
epth area; depth unknown		cvl=99999
Full Chart Symbology:		0823 no data gray solid fill
Simplified Symbology:		0823 no data gray solid fill
Full Chart Symbology:		0934 gray dash wide patt fill
Simplified Symbology:		0934 gray dash wide patt fill
Full Chart Symbology:	0631 gray thin solid line	
	J : y : - : - :	

Point Symbology	Line Symbology	Area Symbology	
BE010			BE010
ine			
depth curve - accurate; equals ssdc		acc=1 AND crv=ssdc	
Full Chart Symbology:	0609 depth dk gray thin so	id line	
Simplified Symbology:	0609 depth dk gray thin so	id line	
depth curve - accurate; not equal ssd	lc	acc=1 AND crv<>ssdc	
Full Chart Symbology:	0608 depth gray very thin s	olid line	
Simplified Symbology:	0608 depth gray very thin s	olid line	
depth curve - not accurate; equals ss	sdc	acc=2 AND crv=ssdc	
Full Chart Symbology:	0613 depth dk gray thin da	sh line	
Simplified Symbology:	0613 depth dk gray thin da	sh line	
depth curve - not accurate; not equal		acc=2 AND crv<>ssdc	
Full Chart Symbology:	0614 depth gray very thin o	ash line	
Simplified Symbology:	0614 depth gray very thin o	ash line	
BE020			BE020
oint			
drying height overbar (dark)		hdh>=0 AND hdp=NULL	
Full Chart Symbology: 1256 sounding black overbar			
Simplified Symbology: 1256 sounding black overbar			
sounding or drying height - circle (lig	ht) indicating low	acc<>1	
Full Chart Symbology: 1251 sounding gray circle			
Simplified Symbology:			

DNC

0071 gray arrow w/ 2 feathers and 2?

Point Symbology Line Symbology Area Symbology **BF010 BF010 Point** bottom characteristics - surface unknown mcc=0 AND psc=0 Full Chart Symbology: 1233 black horiz line below triangle w/ B inside Simplified Symbology: 1233 black horiz line below triangle w/ B inside **BG010 BG010 Point** current flow - ebb; direction known cur=1 AND dof<>0 **Full Chart Symbology:** 0073 gray arrow w/ no feathers Simplified Symbology: 0073 gray arrow w/ no feathers cur=2 AND dof<>0 current flow - flood; direction known **Full Chart Symbology:** 0074 gray arrow w/ one feather Simplified Symbology: 0074 gray arrow w/ one feather current flow - general, ocean; direction known cur=3or5 AND dof<>0 Full Chart Symbology: 0072 gray arrow w/ two feathers Simplified Symbology: 0072 gray arrow w/ two feathers current flow - general; direction unknown cur=0 OR dof=0 Full Chart Symbology: 0071 gray arrow w/ 2 feathers and 2? Simplified Symbology:

Point Symbology	Line Symbology	Area Symbology
BG020		BG020
Point		
tide gauge		
Full Chart Symbology: 0015 It magenta SS in rectangle w/ pale gre fill	en	
Simplified Symbology: 0015 It magenta SS in rectangle w/ pale gre fill	en	
BG030		BG030
Point		
tide data point		
Full Chart Symbology: 0076 gray diamond		
Simplified Symbology: 0076 gray diamond		
BG040		BG040
Point		
current diagram		
Full Chart Symbology: 0154 magenta cir,arrows pting out,represent only	t	
Simplified Symbology: 0154 magenta cir,arrows pting out,represent only	t	
BH010		BH010
Line		
aqueduct - elevated	loc	c=25
Full Chart Symbology:	0610 gray solid line	
Simplified Symbology:	0610 gray solid line	
aqueduct - not elevated		c<>25
Full Chart Symbology:	0704 gray dash very thin line w/	sm cir
Simplified Symbology:	0704 gray dash very thin line w/	

DNC

Simplified Symbology:

Point Symbology	Line Symbology	Area Symbology
BH020		BH020
Area		
canal		
Full Chart Symbology:		
	0600 black very thin solid line	0810 depth med blue solid fill
Simplified Symbology:	0600 black very thin solid line	0810 depth med blue solid fill
Line		
canal		
Full Chart Symbology:	0600 black very thin solid line	
Simplified Symbology:	0600 black very thin solid line	
BH050		BH050
Area		
fish hatchery/fish farm/marine farr	n	
Full Chart Symbology:	0716 gray dash/chevron line	0904 gray fish in net patt fill
Simplified Symbology:	0656 gray very thin dash line	0904 gray fish in net patt fill
BH080		BH080
Area		
lake/pond		
Full Chart Symbology:	0600 black very thin solid line	0810 depth med blue solid fill
Simplified Symbology:	0600 black very thin solid line	0810 depth med blue solid fill
BH090		BH090
Area		
land subject to inundation		
Full Chart Symbology:		4078 basic blue inundation area patt fill

4078 basic blue inundation area patt fill

Point Symbology	Line Symbology	Area Symbology	
BH095			BH095
Area			
marsh/swamp			
Full Chart Symbology:		0910 brown marsh patt fill	
Simplified Symbology:		0910 brown marsh patt fill	
BH120			BH120
Line			
rapids			
Full Chart Symbology:	0610 gray solid line		
Simplified Symbology:	0610 gray solid line		
BH130			BH130
Area			
reservoir			
Full Chart Symbology:	0600 black very thin solid line	0810 depth med blue solid fill	
Simplified Symbology:	0600 black very thin solid line	0810 depth med blue solid fill	
BH140			BH140
Area			
river/stream			
Full Chart Symbology:	0600 black very thin solid line	0810 depth med blue solid fill	
Simplified Symbology:	0600 black very thin solid line	0810 depth med blue solid fill	
Line			
river/stream			
Full Chart Symbology:	0600 black very thin solid line		
Simplified Symbology:	0600 black very thin solid line		

Point Symbology	Line Symbology	Area Symbology	
BH155			BH155
Area			
salt evaporator			
Full Chart Symbology:		0911 depth med blue grid patt fill	
Simplified Symbology:		0911 depth med blue grid patt fill	
BH180			BH180
Line			
waterfall			
Full Chart Symbology:	0615 pale green solid line		
Simplified Symbology:	0615 pale green solid line		
BH210			BH210
Line			
inland shoreline			
Full Chart Symbology:	0600 black very thin solid line		
Simplified Symbology:	0600 black very thin solid line		
BI020			BI020
Line			
dam/weir			
Full Chart Symbology:	0607 feature brown thick solid line		
Simplified Symbology:	0607 feature brown thick solid line		
BI030			BI030
Area			
lock			
Full Chart Symbology:	0623 dk gray thin solid line	0804 brown solid fill	

Point Symbology	Line Symbology	Area Symbology	
BI040	Line dynibology		040
Line		5.	0.10
sluice gate			
-			
Full Chart Symbology:	0623 dk gray thin solid line		
Simplified Symbology:	0623 dk gray thin solid line		
BJ030		ВЈ	030
Area			
glacier			
Full Chart Symbology:		0823 no data gray solid fill	
Simplified Symbology:		0823 no data gray solid fill	
Full Chart Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	
Simplified Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	
BJ060		ВЈ	060
Point			
ice peak/nunatak			
Full Chart Symbology: 0077 black radiating cones			
Simplified Symbology: 0077 black radiating cones			
BJ065		BJ	065
Area			
ice shelf			
Full Chart Symbology:		0823 no data gray solid fill	
Simplified Symbology:		0823 no data gray solid fill	
Full Chart Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	
Simplified Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	

Point Symbology	Line Symbology	Area Symbology	
BJ100			BJ100
Area			
snow field/ice field			
Full Chart Symbology:		0823 no data gray solid fill	
Simplified Symbology:		0823 no data gray solid fill	
Full Chart Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	
Simplified Symbology:	0656 gray very thin dash line	0912 gray random line patt fill	
BJ110			BJ110
Area			
tundra			
Full Chart Symbology:		0822 It brown solid fill	
Simplified Symbology:		0822 It brown solid fill	
CA010			CA010
Line			
contour line (land)			
Full Chart Symbology:	0604 feature brown very thin solid line		
Simplified Symbology:	0604 feature brown very thin solid line		
CA030			CA030
Point			
spot elevation			
Full Chart Symbology: 0078 black sm cir			
Simplified Symbology: 0078 black sm cir			

Point Symbology	Line Symbology	Area Symbology
DA010		DA010
Area		
ground surface element		
Full Chart Symbology:		0822 It brown solid fill
Simplified Symbology:		0822 It brown solid fill
DB090		DB090
Area		
embankment/fill		
Full Chart Symbology:		0913 feature brown solid filled circle patt fill
Simplified Symbology:		0913 feature brown solid filled circle patt fill
Line		
embankment/fill		
Full Chart Symbology:	3082 gray very thin solid line	
Simplified Symbology:	3082 gray very thin solid line	
DB170		DB170
Area		
sand dune/sand hills		
Full Chart Symbology:		0913 feature brown solid filled circle patt fill
Simplified Symbology:		0913 feature brown solid filled circle patt fill
EA030		EA030
Area		
nursery		
Full Chart Symbology:		0914 feature brown cirs patt fill
Simplified Symbology:		0914 feature brown cirs patt fill
		·

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0624 feature brown very thin dash line 0624 feature brown very thin dash line	0915 feature brown tree side-view patt fill 0915 feature brown tree side-view patt fill EA05
<u> </u>	0915 feature brown tree side-view patt fill
<u> </u>	0915 feature brown tree side-view patt fill
<u> </u>	0915 feature brown tree side-view patt fill
0624 feature brown very thin dash line	·
	EA05
0624 feature brown very thin dash line	0915 feature brown tree side-view patt fill
0624 feature brown very thin dash line	0915 feature brown tree side-view patt fill
	EC03
veg=19	
0624 feature brown very thin dash line	0916 feature brown mangrove side-view patt
0624 feature brown very thin dash line	0916 feature brown mangrove side-view patt
veg<>19	
0624 feature brown very thin dash line	0915 feature brown tree side-view patt fill
0624 feature brown very thin dash line	0915 feature brown tree side-view patt fill
	0624 feature brown very thin dash line veg=19 0624 feature brown very thin dash line 0624 feature brown very thin dash line veg<>19

trees

Full	ll Chart Symbology:
007	79 feature brown side view of stylised tree
Sim	nplified Symbology:
007	79 feature brown side view of stylised tree

Point Symbology	Line Symbology	Area Symbology	
FA000			FA000
Line			
administrative boundary - insular	us	se=32	
Full Chart Symbology:	0680 black thin dotted line		
Simplified Symbology:	0680 black thin dotted line		
administrative boundary - internation	nal us	se=23	
Full Chart Symbology:	1310 black one long dash two s	hort dash line	
Simplified Symbology:	1310 black one long dash two s	hort dash line	
FA020			FA020
Line			
armistice line			
Full Chart Symbology:	3119 black very thin long dash	ine	
Simplified Symbology:	3119 black very thin long dash	ine	
FA040			FA040
Line			
claim line			
Full Chart Symbology:	3120 black thin long dash line		
Simplified Symbology:	3120 black thin long dash line		
FA060			FA060
Line			
defacto boundary			
Full Chart Symbology:	1310 black one long dash two s	hort dash line	
Simplified Symbology:	1310 black one long dash two s	hort dash line	

Point Symbology	Line Symbology	Area Symbology
FA110		FA110
Line		
international date line		
Full Chart Symbology:		
	3119 black very thin long dash lii	ne
Simplified Symbology:		
	3119 black very thin long dash li	ne

Point Symbology	Line Syr	mbology	Area Symbology	
021				FC021
ea				
naritime limit boundary - cargo Xsh	ipment	mac=49		
Full Chart Symbology: 0081 It magenta square w/ I	0734 ma	agenta dash/chevron line		
Simplified Symbology: 0081 It magenta square w/ I	0635 lt m	nagenta very thin dash line		
naritime limit boundary - deguassin	g	mac=44		
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle	0734 ma	agenta dash/chevron line		
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle	4186 ma	agenta thin dash line		
naritime limit boundary - dredging a	rea	mac=58		
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle	0734 ma	agenta dash/chevron line		
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle	4186 ma	agenta thin dash line		
naritime limit boundary - dumping, o	explosive	dumping mac=30or	35	
Full Chart Symbology: 0081 It magenta square w/ I	0734 ma	agenta dash/chevron line		
Simplified Symbology: 0081 It magenta square w/ I	0634 ma	agenta very thin dash line		
naritime limit boundary - fairway		mac=55		
Full Chart Symbology:	0716 gra	ay dash/chevron line		
Simplified Symbology:	0656 gra	ay very thin dash line		
naritime limit boundary - fish traps		mac=56		
Full Chart Symbology: 0047 gray rectangle w/ angle line on top	0716 gra	ay dash/chevron line		
Simplified Symbology:	0656 gra	ay very thin dash line	0903 gray fish trap patt fill	
naritime limit boundary - incineratio	n	mac=31		
Full Chart Symbology: 0081 It magenta square w/ I	0734 ma	agenta dash/chevron line		
Simplified Symbology: 0081 It magenta square w/ I	0635 lt m	nagenta very thin dash line		

Point Symbology	Line Symbology	Area Symbology
C021		FC021
naritime limit boundary - marine farm	mac=57	
Full Chart Symbology:	0716 gray dash/chevron line	0904 gray fish in net patt fill
Simplified Symbology:	0656 gray very thin dash line	0904 gray fish in net patt fill
naritime limit boundary - oil field, gas	field mac=32or33	
Full Chart Symbology: 0093 traffic It magenta! Inside lg circle	0734 magenta dash/chevron line	
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle	4186 magenta thin dash line	
naritime limit boundary - pilot boardi	ng mac=48	
Full Chart Symbology: 0080 magenta solid filled diamond inside cir	0734 magenta dash/chevron line	
Simplified Symbology: 0080 magenta solid filled diamond inside cir	1651 traffic lt magenta thin dash line	
naritime limit boundary - precautiona	ry mac=42	
Full Chart Symbology: 0092 traffic It magenta ! Inside triangle	0738 magenta dash/chev line w/precaution symbol	0917 traffic It magenta rt diag line patt fill
Simplified Symbology: 0092 traffic It magenta! Inside triangle	0663 traffic magenta thin dash line	
naritime limit boundary - spoil	mac=25	
Full Chart Symbology:	0716 gray dash/chevron line	
Simplified Symbology:	0634 magenta very thin dash line	
naritime limit boundary - submarine e iring range	xercise, mine laying, mac=27or28o	r29
Full Chart Symbology: 0093 traffic It magenta ! Inside Ig circle	0734 magenta dash/chevron line	
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle	4186 magenta thin dash line	
naritime limit boundary - turning area	mac=24	
Full Chart Symbology: 0093 traffic It magenta ! Inside Ig circle	0734 magenta dash/chevron line	
Simplified Symbology: 0093 traffic It magenta! Inside lg circle	4186 magenta thin dash line	

Point Symbology	Line Symbology	Area Symbology
021		FC021
naritime limit boundary - unknown, o	ther mac=0or999	
Full Chart Symbology: 0097 traffic It magenta! Inside Ig circle	0742 magenta dash/chevron line w/caution symbol	
Simplified Symbology: 0097 traffic lt magenta ! Inside lg circle	0663 traffic magenta thin dash line	
naritime limit boundary - unsurveyed	mac=26	
Full Chart Symbology:		0823 no data gray solid fill
Simplified Symbology:		0823 no data gray solid fill
Full Chart Symbology:		0933 gray offset dash patt fill
Simplified Symbology:		0933 gray offset dash patt fill
Full Chart Symbology:	0631 gray thin solid line	
Simplified Symbology:	0631 gray thin solid line	
ne		
naritime limit boundary - cargo Xship	ment mac=49 AND	mbl=NULL
Full Chart Symbology:	0635 It magenta very thin dash line	
Simplified Symbology:	0635 It magenta very thin dash line	
naritime limit boundary - clearing line	mbl=13 AND	mac=NULL
Full Chart Symbology:	0656 gray very thin dash line	
Simplified Symbology:	0656 gray very thin dash line	
naritime limit boundary - deguassing	mac=44 AND	mbl=NULL
Full Chart Symbology:	4186 magenta thin dash line	
Simplified Symbology:	4186 magenta thin dash line	

Point Symbology	Line Symbology	Area Symbology	
0021		FC	021
naritime limit boundary - dredging		mac=58 AND mbl=NULL	
Full Chart Symbology:	4186 magenta thin dash line	9	
Simplified Symbology:			
	4186 magenta thin dash line		
naritime limit boundary - dumping, ex	plosive dumping	mac=30or35 AND mbl=NULL	
Full Chart Symbology:	0634 magenta very thin das	h line	
Simplified Symbology:	0634 magenta very thin das	h line	
aritime limit boundary - fairway		mac=55 AND mbl=NULL	
Full Chart Symbology:	0656 gray very thin dash lin	e	
Simplified Symbology:	0656 gray very thin dash lin	е	
naritime limit boundary - fish traps		mac=56 AND mbl=NULL	
Full Chart Symbology:	0629 gray thin dash line		
Simplified Symbology:	0629 gray thin dash line		
naritime limit boundary - incineration		mac=31 AND mbl=NULL	
Full Chart Symbology:	0635 It magenta very thin d	ash line	
Simplified Symbology:	0635 It magenta very thin d	ash line	
naritime limit boundary - marine farm		mac=57 AND mbl=NULL	
Full Chart Symbology:	0633 It gray thin dash line		
Simplified Symbology:	0633 It gray thin dash line		
naritime limit boundary - not clearing		mbl<>7and<>13 AND mac=NULL	
Full Chart Symbology:	0629 gray thin dash line		
Simplified Symbology:	0629 gray thin dash line		

Point Symbology	Line Symbo	ology Area Symbology
FC021		FC02 ⁻
maritime limit boundary	oil field, gas field	mac=32or33 AND mbl=NULL
Full Chart Symbology:	4186 magen	nta thin dash line
Simplified Symbology:	4186 magen	nta thin dash line
maritime limit boundary	pilot boarding	mac=48 AND mbl=NULL
Full Chart Symbology:	1651 traffic li	It magenta thin dash line
Simplified Symbology:	1651 traffic I	It magenta thin dash line
maritime limit boundary	precautionary	mac=42 AND mbl=NULL
Full Chart Symbology:	0663 traffic n	magenta thin dash line
Simplified Symbology:	0663 traffic n	magenta thin dash line
maritime limit boundary	spoil	mac=25 AND mbl=NULL
Full Chart Symbology:	0634 magen	nta very thin dash line
Simplified Symbology:	0634 magen	nta very thin dash line
maritime limit boundary firing range	submarine exercise, m	nine laying, mac=27or28or29 AND mbl=NULL
Full Chart Symbology:	4186 magen	nta thin dash line
Simplified Symbology:	4186 magen	nta thin dash line
maritime limit boundary	territorial waters basel	line mbl=7 AND mac=NULL
Full Chart Symbology:	3077 It gray	very thin dash line
Simplified Symbology:	3077 It gray	very thin dash line
maritime limit boundary	turning area	mac=24 AND mbl=NULL
Full Chart Symbology:	4186 magen	nta thin dash line
Simplified Symbology:	4186 magen	nta thin dash line

DNC

Point Symbology Line Symbology Area Symbology

FC021 FC021

maritime limit boundary - unknown, other

mac=0or999 AND mbl=NULL

Full Chart Symbology:

0663 traffic magenta thin dash line

Simplified Symbology:

0663 traffic magenta thin dash line

maritime limit boundary - unsurveyed

mac=26 AND mbl=NULL

Full Chart Symbology:

0631 gray thin solid line

Simplified Symbology:

0631 gray thin solid line

Point

maritime limit boundary - not pilot boarding

mac<>48

Full Chart Symbology:

0084 magenta cir w/! Inside

Simplified Symbology:

0084 magenta cir w/! Inside

maritime limit boundary - pilot boarding

mac=48

Full Chart Symbology:

0080 magenta solid filled diamond inside cir

Simplified Symbology:

0080 magenta solid filled diamond inside cir

Point Symbology	Line Symbology	Area Symbology
C031		FC031
rea		
<mark>maritime area - dredged cha</mark>	nnel, 2 shades, deep water	mac=2 AND idsm=1 AND hdp>=ssdc
Full Chart Symbology:		0805 depth white fill
Simplified Symbology:		0805 depth white fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash	n line
Simplified Symbology:	3077 It gray very thin dash	n line
maritime area - dredged cha shallow mode off	nnel, 2 shades, very shallow,	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"></ssdc>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash	n line
Simplified Symbology:	3077 It gray very thin dash	

Point Symbology	Line Symbology	Area Symbology
031		FC03 ²
naritime area - dredged chan hallow mode on		mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"></ssdc>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
Full Chart Symbology:		0949 depth gray diamond patt IIII
		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash lir	ne
Simplified Symbology:	3077 It gray very thin dash lir	
naritime area - dredged chan		mac=2 AND idsm=0 AND hdp>=msdc
Full Chart Symbology:		0805 depth white fill
Simplified Symbology:		0805 depth white fill
Full Chart Symbology:		· · · · · · · · · · · · · · · · · · ·
		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash lir	ne
Simplified Symbology:	3077 It gray very thin dash lir	
	John Rigidy very tillindasirill	

Point Symbology	Line Symbology	Area Symbology
031		FC03
aritime area - dredged cha allow mode off	nnel, 4 shades, med shallow,	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=0</ssdc
Full Chart Symbology:		0821 depth It blue solid fill
Simplified Symbology:		0821 depth It blue solid fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash	line
Simplified Symbology:	<u> </u>	
	3077 It gray very thin dash	line
aritime area - dredged cha allow mode on	nnel, 4 shades, med shallow,	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc
		mac=2 AND idsm=0 AND hdp>=msscand <ssdc< td=""></ssdc<>
allow mode on		mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc
allow mode on Full Chart Symbology:		mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1 0821 depth It blue solid fill</ssdc
Full Chart Symbology: Simplified Symbology:		mac=2 AND idsm=0 AND hdp>=msscand <ssdc 0821="" and="" blue="" depth="" fill="" fill<="" isdm="1" it="" solid="" td=""></ssdc>
Full Chart Symbology: Simplified Symbology: Full Chart Symbology:		mac=2 AND idsm=0 AND hdp>=msscand <ssdc 0821="" 0949="" and="" blue="" depth="" diamond="" fill="" fill<="" gray="" isdm="1" it="" patt="" solid="" td=""></ssdc>
Full Chart Symbology: Simplified Symbology: Full Chart Symbology: Simplified Symbology:		mac=2 AND idsm=0 AND hdp>=msscand <ssdc 0821="" 0949="" and="" blue="" depth="" diamond="" fill="" fill<="" gray="" isdm="1" it="" patt="" solid="" td=""></ssdc>
Full Chart Symbology: Full Chart Symbology: Full Chart Symbology: Simplified Symbology: Full Chart Symbology:		mac=2 AND idsm=0 AND hdp>=msscand <ssdc 0821="" 0919="" 0949="" and="" blue="" depth="" diag="" diamond="" dot="" fill="" fill<="" gray="" isdm="1" it="" patt="" solid="" spaced="" td=""></ssdc>

Point Symbology	Line Symbology	Area Symbology
C031		FC031
<mark>naritime area - dredged chan</mark>	nel, 4 shades, medium deep	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< th=""></msdc<>
Full Chart Symbology:		
		0820 depth pale blue solid fill
Simplified Symbology:		0820 depth pale blue solid fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		
		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash	line
Simplified Symbology:	<u>, , , , , , , , , , , , , , , , , </u>	
	3077 It gray very thin dash	line
naritime area - dredged chan shallow mode off	nel, 4 shades, very shallow,	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</td"></mssc>
Full Chart Symbology:		
		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
F. II Ob and O		
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
		oo.o g.a, aag spassa ast patt
Full Chart Symbology:	3077 It gray very thin dash	line
Simplified Symbology:	0077 1	
	3077 It gray very thin dash	line

Point Symbology	Line Symbology	Area Symbology
031		FC03
naritime area - dredged chan hallow mode on		mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</th"></mssc>
Full Chart Symbology:		0810 depth med blue solid fill
Simplified Symbology:		0810 depth med blue solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
Full Chart Symbology:		
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
	3077 It gray very thin dash li	ne
Simplified Symbology:	3077 It gray very thin dash li	ne
naritime area - dredged chan node off	nel, depth unknown, shallow	mac=2 AND hdp=0 AND isdm=0
Full Chart Symbology:		0803 yellow green solid fill
Simplified Symbology:		0803 yellow green solid fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash li	ne
Simplified Symbology:	3077 It gray very thin dash li	
	Jorr it gray very tilli dasir il	TIC .

Point Symbology	Line Symbology	Area Symbology
031		FC031
naritime area - dredged channel, d node on	epth unknown, shallow ma	c=2 AND hdp=0 AND isdm=1
Full Chart Symbology:		0803 yellow green solid fill
Simplified Symbology:		0803 yellow green solid fill
Full Chart Symbology:		0949 depth gray diamond patt fill
Simplified Symbology:		0949 depth gray diamond patt fill
Full Chart Symbology:		0919 gray diag spaced dot patt fill
Simplified Symbology:		0919 gray diag spaced dot patt fill
Full Chart Symbology:	3077 It gray very thin dash line	
Simplified Symbology:	3077 It gray very thin dash line	
naritime area - entry prohibited	ma	c=5
Full Chart Symbology: 0082 traffic It magenta cir w/ bar	0734 magenta dash/chevron line	
Simplified Symbology: 0082 traffic It magenta cir w/ bar	4186 magenta thin dash line	
naritime area - inshore traffic zone	(TSS) ma	c=41
Full Chart Symbology: 1236 It magenta IT	0722 magenta dashed T line	
Simplified Symbology: 1236 It magenta IT	0662 traffic magenta very thin da	ish line
naritime area - mine danger	ma	c=4
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle	0734 magenta dash/chevron line	
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle	4186 magenta thin dash line	

Point Symbology	Line Symbology		Area Symbology
FC031			FC031
maritime area - roundabout zone (TS	SS)	mac=40	
Full Chart Symbology: 0083 traffic It magenta arc w/ arrowhead			0917 traffic It magenta rt diag line patt fill
Simplified Symbology: 0083 traffic lt magenta arc w/ arrowhead			
maritime area - unknown, work in p	rogress	mac=0or9	
Full Chart Symbology: 0097 traffic It magenta ! Inside Ig circle	0742 magenta das symbol	h/chevron line w/caution	
Simplified Symbology: 0097 traffic lt magenta! Inside lg circle	0663 traffic magen	ta thin dash line	
Line			
maritime area - dredged channel		mac=2	
Full Chart Symbology:	3077 It gray very th	in dash line	
Simplified Symbology:	3077 It gray very th	in dash line	
maritime area - entry prohibited		mac=5	
Full Chart Symbology:	4186 magenta thin	dash line	
Simplified Symbology:	4186 magenta thin	dash line	
maritime area - mine danger		mac=4	
Full Chart Symbology:	4186 magenta thin	dash line	
Simplified Symbology:	4186 magenta thin	dash line	
maritime area - TSS		mac=40or41	
Full Chart Symbology:	0665 traffic magen	ta thick dash line	
Simplified Symbology:	0665 traffic magen	ta thick dash line	
maritime area - unknown, work in p	rogress	mac=0or9	
Full Chart Symbology:	0663 traffic magen	ta thin dash line	
Simplified Symbology:	0663 traffic magen	ta thin dash line	

Point Symbology	Line Symbology		Area Symbology	
C031				FC031
Point				
maritime area - dredged area		mac=2		
Full Chart Symbology: 0087 traffic It magenta! In Ig cir w/ magen	ta ?			
Simplified Symbology: 0087 traffic It magenta! In Ig cir w/ magen	ta ?			
maritime area - entry prohibited		mac=5		
Full Chart Symbology: 0082 traffic It magenta cir w/ bar				
Simplified Symbology: 0082 traffic lt magenta cir w/ bar				
maritime area - mine danger area		mac=4		
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle				
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle				
maritime area - roundabout zone (TSS)	mac=40		
Full Chart Symbology: 0083 traffic It magenta arc w/ arrowhead				
Simplified Symbology: 0083 traffic It magenta arc w/ arrowhead				
maritime area - unknown		mac=0		
Full Chart Symbology: 0084 magenta cir w/ ! Inside				
Simplified Symbology: 0084 magenta cir w/! Inside				

DNC

Point Symbology	Line Symbology	Area Symbology
036		FC03
rea		
estricted area - anchoring prohibited	mac=	=15
Full Chart Symbology: 0086 It magenta open anchor w/ intrsctng diag line	0739 magenta T dash line w/ ancho	or symbol
Simplified Symbology: 0086 It magenta open anchor w/ intrsctng diag line	4186 magenta thin dash line	
estricted area - area to be avoided	mac=	=43
Full Chart Symbology: 0082 traffic It magenta cir w/ bar	0734 magenta dash/chevron line	
Simplified Symbology: 0082 traffic lt magenta cir w/ bar	4186 magenta thin dash line	
estricted area - cables	mac=	=20
Full Chart Symbology: 0094 It magenta angled line	0737 magenta dash/chevron line wasymbol	/ flash
Simplified Symbology: 0094 It magenta angled line	4186 magenta thin dash line	
estricted area - fishing prohibited	mac=	=22
Full Chart Symbology: 0085 It magenta fish w/ intersecting diag line	0740 magenta T dash line w/ fish s	ymbol
Simplified Symbology: 0085 It magenta fish w/ intersecting diag line	4186 magenta thin dash line	
estricted area - outfall, intake	mac=	=45or46
Full Chart Symbology: 0081 It magenta square w/ I	0736 gray dash/chevron line w/ das	sh, cir
Simplified Symbology: 0081 It magenta square w/ I	0629 gray thin dash line	
estricted area - pipelines, sewer	mac=	=21or23or61
Full Chart Symbology: 0081 It magenta square w/ I	0735 magenta dash/chevron line w	/ dash, cir
Simplified Symbology: 0081 It magenta square w/ I	4186 magenta thin dash line	

DNC

Point Symbology Line Symbology Area Symbology

FC036 FC036

restricted area - safety zone mac=37

Full Chart Symbology:

0093 traffic lt magenta! Inside lg circle 0734 magenta dash/chevron line

Simplified Symbology:

0093 traffic It magenta! Inside Ig circle 4186 magenta thin dash line

restricted area - to be avoided, other

mac=0or999

Full Chart Symbology:

0087 traffic lt magenta! In lg cir w/ magenta? 0734 magenta dash/chevron line

Simplified Symbology:

0087 traffic It magenta! In Ig cir w/ magenta? 4186 magenta thin dash line

Line

restricted area

Full Chart Symbology:

0722 magenta dashed T line

Simplified Symbology:

0722 magenta dashed T line

Point

restricted area - anchoring prohibited

mac=15

Full Chart Symbology:

0086 It magenta open anchor w/ intrsctng diag

Simplified Symbology:

0086 It magenta open anchor w/ intrsctng diag

restricted area - area to be avoided

mac=43

Full Chart Symbology:

0082 traffic It magenta cir w/ bar

Simplified Symbology:

0082 traffic It magenta cir w/ bar

restricted area - fishing prohibited

mac=22

Full Chart Symbology:

0085 It magenta fish w/ intersecting diag line

Simplified Symbology:

0085 It magenta fish w/ intersecting diag line

Point Symbology	Line Symbology		Area Symbology	
C036				FC036
restricted area - safety zone		mac=37		
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle				
Simplified Symbology: 0093 traffic It magenta! Inside Ig circle				
restricted area - unknown or other		mac=0or999		
Full Chart Symbology: 0087 traffic It magenta! In Ig cir w/ magenta?				
Simplified Symbology: 0087 traffic It magenta! In Ig cir w/ magenta?				

DNC

FC041 FC041

Area Symbology

Line Symbology

Area

traffic separation scheme (TSS) - inbound or outbound tsp=6or7

area

Full Chart Symbology:

Point Symbology

0097 traffic lt magenta ! Inside lg circle 0917 traffic lt magenta rt diag line patt fill

Simplified Symbology:

0097 traffic It magenta! Inside Ig circle

traffic separation scheme (TSS) - separation zone area tsp=3

Full Chart Symbology:

0824 traffic It magenta solid fill

Simplified Symbology:

0824 traffic It magenta solid fill

Line

traffic separation scheme (TSS) - outer boundary tsp=2

Full Chart Symbology:

0665 traffic magenta thick dash line

Simplified Symbology:

0665 traffic magenta thick dash line

traffic separation scheme (TSS) - separation zone line tsp=4

Full Chart Symbology:

0620 traffic It magenta very very thick solid line

Simplified Symbology:

0620 traffic It magenta very very thick solid line

Point

traffic separation scheme (TSS)

Full Chart Symbology:

0088 traffic magenta filled arrow

Simplified Symbology:

0088 traffic magenta filled arrow

DNC

Point Symbology	Line Symbology	Area Symbology
FC100		FC100
Line		
measured distance line		
Full Chart Symbology:		
	0656 gray very thin dash line	
Simplified Symbology:		
	0656 gray very thin dash line	
FC130		FC130
Line		
radar reference line		
Full Chart Symbology:		
	0663 traffic magenta thin dash line	
Simplified Symbology:		

0663 traffic magenta thin dash line

DNC

Point Symbology	Line Symbology	Area Symbology	
FC165			FC165

Area

route (maritime) - 2-way

rtt=11

Full Chart Symbology:

0098 traffic magenta dash dbl head arrow w/ 2 0734 magenta dash/chevron line ?'s

Simplified Symbology:

0098 traffic magenta dash dbl head arrow w/ 2 0665 traffic magenta thick dash line

route (maritime) - deep water

rtt=4

Full Chart Symbology:

1238 traffic It mag DW filled arrow btwn 2 mgnta?

0741 traffic magenta dash/chevron line w/ DW

Simplified Symbology:

1238 traffic lt mag DW filled arrow btwn 2

0661 traffic magenta dash line

mgnta ?

route (maritime) - use unknown

rtt=0

EII	Chart	Symbo	1000
гuп	Ulları	SVIIIDO	iouv.

0097 traffic lt magenta ! Inside lg circle 0742 magenta

0742 magenta dash/chevron line w/caution

symbol

Simplified Symbology:

0097 traffic lt magenta! Inside lg circle 0663 traffic magenta thin dash line

Line

route (maritime) - marked;1-way;not recomm for deep draft vessels

atn=1 AND exs=22 AND rtt<>3

Full Chart Symbology:

0728 gray very thin line w/ >

Simplified Symbology:

0728 gray very thin line w/ >

route (maritime) - marked;1-way;recomm for deep draft atn=1 AND exs=22 AND rtt=3 vessels

Full Chart Symbology:

0723 traffic magenta solid line w/ > and DW

Simplified Symbology:

0723 traffic magenta solid line w/ > and DW

Point Symbology	Line Symbology	Area Symbology	
C165			FC165
route (maritime) - marked;2-w draft vessels	ay;not recomm for deep	atn=1 AND exs=23 AND rtt<>3	
Full Chart Symbology:	0730 gray very thin line v	ıl <>	
Simplified Symbology:	0730 gray very thin line v	ı/ < >	
route (maritime) - marked;2-w vessels	ay;recomm for deep draft	atn=1 AND exs=23 AND rtt=3	
Full Chart Symbology:	0725 traffic magenta soli	d line w/ < > and DW	
Simplified Symbology:	0725 traffic magenta soli	d line w/ < > and DW	
route (maritime) - unknown;novessels	ot recomm for deep draft	exs=0 AND rtt<>3	
Full Chart Symbology:	0732 gray very thin dash	line w/ < ? >	
Simplified Symbology:	0732 gray very thin dash	line w/ < ? >	
route (maritime) - unknown;re	comm for deep draft vessels	exs=0 AND rtt=3	
Full Chart Symbology:	0727 traffic magenta das DW	h line w/ < ? > and	
Simplified Symbology:	0727 traffic magenta das	h line w/ < ? > and	
route (maritime) - unmarked;1 draft vessels	-way;not recomm for deep	atn=2 AND exs=22 AND rtt<>3	
Full Chart Symbology:	0729 gray very thin dash	line w/ >	
Simplified Symbology:	0729 gray very thin dash	line w/ >	
route (maritime) - unmarked;1 vessels	-way;recomm for deep draft	atn=2 AND exs=22 AND rtt=3	
Full Chart Symbology:	0724 traffic magenta das	h line w/ > and DW	
Simplified Symbology:	0724 traffic magenta das	h line w/ > and DW	

DNC

Point Symbology Line Symbology Area Symbology

FC165 FC165

route (maritime) - unmarked;2-way;not recomm for deep atn=2 AND exs=23 AND rtt<>3 draft vessels

Full Chart Symbology:

0731 gray very thin dash line w/ < >

Simplified Symbology:

0731 gray very thin dash line w/ < >

route (maritime) - unmarked;2-way;recomm for deep draft atn=2 AND exs=23 AND rtt=3 vessels

Full Chart Symbology:

0726 traffic magenta dash line w/ < > and DW

Simplified Symbology:

0726 traffic magenta dash line w/ < > and DW

Point

route (maritime) - direction known

dof<>0

Full Chart Symbology:

1220 traffic magenta dashed open arrow

Simplified Symbology:

1220 traffic magenta dashed open arrow

route (maritime) - direction unknown

dof=0

Full Chart Symbology:

0089 traffic magenta dashed arrow w/ 2 mgnta

?'s

Simplified Symbology:

0089 traffic magenta dashed arrow w/ 2 mgnta

?'s

DNC

Point Symbology Line Symbology Area Symbology

FC170

FC170

Area

safety fairway

Full Chart Symbology: 0091 gray ? inside angle brackets inside dashes	0716 gray dash/chevron line
Simplified Symbology: 0091 gray? inside angle brackets inside dashes	0656 gray very thin dash line

Line

safety fairway

Full Chart Symbology:	
	0732 gray very thin dash line w/ < ? >
Simplified Symbology:	
	0732 gray very thin dash line w/ < ? >

FC177 FC177

Area

swept area

Full Chart Symbology:	
0095 It gray under har w/ unward har on ends	0716 gray dash/chevron li

Simplified Symbology:

0095 It gray under bar w/ upward bar on ends 0656 gray very thin dash line

Line

swept area

Full Chart Symbology:	
	0656 gray very thin dash line
Simplified Symbology:	
	0656 gray very thin dash line

GA020 GA020

Point

air obstruction light [DNC-specific]

Full Chart Symbology: 0501 lights red flare	
Simplified Symbology:	
0501 lights red flare	

DNC

Point Symbology Line Symbology Area Symbology

GA035

GA035

Point

navaids (aeronautical)

Full Chart Symbology: 0511 Ig magenta cir

Simplified Symbology:

0511 lg magenta cir

GB005 GB005

Area

airport/airfield

Full Chart Symbology:		
	0822 It brown solid fill	
Simplified Symbology:		
	0822 It brown solid fill	

Full Chart Symbology:		
	0600 black very thin solid line	0932 feature brown airplane patt fill
Simplified Symbology:		
	0600 black very thin solid line	0932 feature brown airplane patt fill

Point

airport/airfield

Full Chart Symbology:

0090 feature brown outline of plane inside lg cir

Simplified Symbology:

0090 feature brown outline of plane inside lg cir

DNC

Point Symbology	Line Symbology	Area Symbology
GB055		GB055

Area

runway

Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
Simplified Symbology:			
	0600 black very thin solid line	0804 brown solid fill	

Line

runway

Full Chart Symbology:	
	0606 feature brown solid line
Simplified Symbology:	
	0606 feature brown solid line

GB070 GB070

Area

seaplane landing/seaplane take-off area

Full Chart Symbology: 0093 traffic lt magenta ! Inside lg circle	0734 magenta dash/chevron line
Simplified Symbology:	
0093 traffic It magenta! Inside Ig circle	0634 magenta very thin dash line

Line

seaplane landing/seaplane take-off area

Full Chart Symbology:		
	0634 magenta very thin dash line	
Simplified Symbology:		
	0634 magenta very thin dash line	

ZC040 ZC040

Area

magnetic disturbance area

Full Chart Symbology:	
0733 It magenta open flag	0716 gray dash/chevron line
Simplified Symbology:	
0733 It magenta open flag	0656 gray very thin dash line

DTOP

2003 basic blue solid filled cir

D101			
Point Symbology	Line Symbology	Area Symbology	
AA010			AA010
Area			
mine			
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line		
Point			
mine			
Full Chart Symbology: 2001 black pick & hammer			
AA012			AA012
Area			
quarry			
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line		
Point			
quarry			
Full Chart Symbology: 2001 black pick & hammer			
AA040			AA040
Point			
rig/superstructure			
Full Chart Symbology: 2002 black tower			
AA050			AA050
Point			
well - not water	pro	<>116	
Full Chart Symbology: 0078 black sm cir			
well - water	pro	=116	
Full Chart Symbology:			

Area Symbology

Line Symbology

DTOP

Point Symbology

AB000 AB000 Area disposal site/waste pile **Full Chart Symbology:** 0822 It brown solid fill **AB010 AB010** Area wrecking yard/scrap yard **Full Chart Symbology:** 0822 It brown solid fill AC000 **AC000** Area processing plant/treatment plant Full Chart Symbology: 0624 feature brown very thin dash line **Point**

processing plant/treatment plant

Full Chart Symbology:

2005 black building w/ 2 smokestacks above

AC020 AC020

Point

catalytic cracker

Full Chart Symbology:

2005 black building w/ 2 smokestacks above

AC030 AC030

Area

settling basin/sludge pond

Full Chart Symbology: 0600 black very thin solid line 4077 depth med blue narrow rt diag line patt fill

Point Symbology	Line Symbology	Area Symbology	
AD010			AD010
Area			
power plant			
Full Chart Symbology:			
	0600 black very thin solid line	0804 brown solid fill	
AD020			AD020
Point			
solar panels			
Full Chart Symbology: 2010 black sun burst w/ dot inside			
AD030			AD030
Area			
substation/transformer yard			
Full Chart Symbology:	OCOO block you thin called line	0804 brown solid fill	
	0600 black very thin solid line	0604 DIOWII SOIIU IIII	
Point			
substation/transformer yard			
Full Chart Symbology: 2011 black filled square w/ zap on top			
AF010			AF010
Point			
chimney/smokestack			
Full Chart Symbology: 0003 black chimney symbol			
AF020			AF020
Line			
conveyor			
Full Chart Symbology:	3086 gray very thin short dash line		

DTOP

mobile home/mobile home park

Full Chart Symbology:

Point Symbology Line Symbology Area Symbology **AF030 AF030 Point** cooling tower **Full Chart Symbology:** 2016 black dot inside double cir **AF040 AF040 Point** crane **Full Chart Symbology:** 0005 feature brown crane symbol **AF070 AF070 Point** flare pipe Full Chart Symbology: 0006 black flare stack symbol **AH050** AH050 Area fortification Full Chart Symbology: 4186 magenta thin dash line **Point** fortification Full Chart Symbology: 2043 black four black squares w/ connection AI020 AI020 Area

3114 black very thin short dash line

Point Symbology	Line Symbology	Area Symbology	
AJ030			AJ030
Area			
feedlot/stockyard/holding pen			
Full Chart Symbology:	4217 beige very thin solid line		
	1217 Bolge very allit cond line		
AJ050			AJ050
Point			
windmill			
Full Chart Symbology: 0008 black sm cir w/ X on top			
AK020			AK020
Point			
amusement park attraction			
Full Chart Symbology: 2029 black ferris wheel			
AK030			AK030
Area			
amusement park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK040			AK040
Area			
athletic field			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK060	·		AK060
Area			
campground/campsite			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
•			

Point Symbology	Line Symbology	Area Symbology	
AK090			AK090
Area			
fairgrounds			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK100			AK100
Area			
golf course			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK120			AK120
Area			
park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK130			AK130
Line			
race track			
Full Chart Symbology:	3113 black solid line		
AK160			AK160
Area			
stadium/amphitheater			
Full Chart Symbology:	3113 black solid line		
AK170			AK170
Area			
swimming pool			
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill	

Point Symbology	Line Symbology	Area Symbology	
AK180			AK180
Area			
zoo/safari park			
Full Chart Symbology:			
	3117 black thin dash line	4045 green solid fill	

Point Symbology	Line Symbology		Area Symbology
AL015			AL015
Area			
building - generic		bfc<>6and<>	7and<>15
Full Chart Symbology:			4156 black solid fill
building - hospital		bfc=6	
Full Chart Symbology:			4015 beige-rose solid fill
building - house of worship		bfc=7	
Full Chart Symbology:			4002 It beige solid fill
building - school		bfc=15	
Full Chart Symbology:			4025 feature brown solid fill
Line			
building - generic		bfc<>6and<>	7and<>15
Full Chart Symbology:	3112 black thin solid line		
building - hospital		bfc=6	
Full Chart Symbology:	3153 beige-rose thin solid lii	ne	
building - house of worship		bfc=7	
Full Chart Symbology:	3001 It beige thin solid line		
building - school		bfc=15	
Full Chart Symbology:	1406 brown thin solid line		
Point			
building - generic		or22or23or24	<mark>r9or10or11or16or17or18or19or20or2</mark> 1 or25or26or27or29or30or33or36or53or 83or85or86or87or88or89
Full Chart Symbology: 2036 black sm filled square			

Point Symbology	Line Symbology	Area Symbology
AL015		AL015
building - generic		bfc=2or3or5or8or12or13or14or28or31or35or37or61 or66or77or96
Full Chart Symbology: 1001 red filled square black outline		
building - generic		bfc=90or91or92or93or95or98or999
Full Chart Symbology: 2036 black sm filled square		
building - hospital		bfc=6
Full Chart Symbology: 1002 black filled cir w/ white cross inside		
building - house of worship		bfc=7
Full Chart Symbology: 2045 black filled square w/ cross on top		
building - lighthouse		bfc=82
Full Chart Symbology: 2044 black lighthouse symbol		
building - school		bfc=15
Full Chart Symbology: 2042 black filled square w/ flag on top		
AL020		AL020
Area		
built-up area		
Full Chart Symbology:		4128 yellow solid fill
Full Chart Symbology:	3112 black thin solid line	4243 depth dk gray solid fill
AL025		AL025
Point		
cairn		
Full Chart Symbology: 0017 black three stacked sm cirs		

Point Symbology	Line Symbology	Area Symbology
AL030		AL030
Area		
cemetery		
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill
Point		
cemetery		
Full Chart Symbology: 1003 black cross		
AL060		AL060
Area		
dragon teeth		
Full Chart Symbology:	1301 black line w/ squares	
Line		
dragon teeth		
Full Chart Symbology:	1301 black line w/ squares	
AL070		AL070
Line		
fence		
Full Chart Symbology:	3148 black patt line -x -x -x	
AL075		AL075
Line		
gallery		
Full Chart Symbology:	1401 black outline open line w/ rt diag fill	
Point		
gallery		
Full Chart Symbology: 1205 brown vert line w/ horizontal ticks on rt side		

Point Symbology	Line Symbology	Area Symbology
AL100		AL100
Point		
hut		
Full Chart Symbology:		
2058 gray filled square		
AL105		AL105
Area		
settlement		
Full Chart Symbology:		
	3112 black thin solid line	4243 depth dk gray solid fill
Full Chart Symbology:		OOOO assess a slid fill
		0802 gray solid fill
AL130		AL130
Point		
monument		
Full Chart Symbology: 2063 black monument symbol		
AL135		AL135
Area		
native settlement		
Full Chart Symbology:		
	3112 black thin solid line	4243 depth dk gray solid fill
Full Chart Symbology:		0000
		0802 gray solid fill
AL140		AL140
Area		
particle accelerator		
Full Chart Symbology:		
		4089 magenta solid fill

Point Symbology	Line Symbology	Area Symbology	
AL155			AL155
Line			
overhead obstruction location			
Full Chart Symbology:	3114 black very thin short dash line		
Point			
overhead obstruction location			
Full Chart Symbology: 1206 black line w/ indented rectangle			
AL170			AL170
Area			
plaza/city square			
Full Chart Symbology:		4018 It tan solid fill	
AL195			AL195
Point			
ramp			
Full Chart Symbology: 2051 black ramp symbol			
AL200			AL200
Area			
ruins			
Full Chart Symbology:	3114 black very thin short dash line		
Point			
ruins			
Full Chart Symbology: 0002 feature brown filled square w/ black outline			

Point Symbology	Line Symbology	Area Symbology
AL210		AL210
Line		
snow shed/rock shed		
Full Chart Symbology:	3146 black solid triangle line patt	
Point		
snow shed/rock shed		
Full Chart Symbology: 2070 black diag bands in rectangle		
AL240		AL240
Point		
tower (non-communication)		
Full Chart Symbology: 2071 black dot inside cir		
AL250		AL250
Point		
underground dwelling		
Full Chart Symbology: 2072 gray shadowed square		
AL260		AL260
Line		
wall		
Full Chart Symbology:	3113 black solid line	
AM010		AM010
Area		
depot (storage)		
Full Chart Symbology:		4028 brown horizontal lines patt fill

Point Symbology	Line Symbology	Area Symbology
AM020		AM020
Area		
grain bin/silo		
Full Chart Symbology:		4028 brown horizontal lines patt fill
Point		
grain bin/silo		
Full Chart Symbology: 2074 brown cir		
AM030		AM030
Area		
grain elevator		
Full Chart Symbology:		
		4028 brown horizontal lines patt fill
Point		
grain elevator		
Full Chart Symbology: 0004 black tower symbol		
AM060		AM060
Area		
storage bunker/storage mound		
Full Chart Symbology:		4114 depth gray horizontal lines patt fill
Point		
storage bunker/storage mound		
Full Chart Symbology: 2076 red brown filled semicircle		

Point Symbology	Line Symbology		Area Symbology	
AM070				AM070
Area				
tank				
Full Chart Symbology:		4	156 black solid fill	
Point				
tank				
Full Chart Symbology: 2019 black sm filled cir				
AM080				AM080
Point				
water tower				
Full Chart Symbology: 2078 basic blue dot inside cir				
AN010				AN010
Line				
railroad - operational, multiple lanes		exs=0or28 AND	Itn>1	
Full Chart Symbology:	3127 black solid line w/ doub	ble tics both sides		
railroad - operational, unknown/1 lane)	exs=0or28 AND	ltn<2	
Full Chart Symbology:	3123 black solid line w/ sing	le tics both sides		
railroad - other		exs<>0and<>28	}	
Full Chart Symbology:	3131 black dash line w/ sing	gle tics both sides		
AN050				AN050
Line				
railroad siding/railroad spur - narrow		rgc=2		
Full Chart Symbology:	3125 black solid line w/ sing	le tics alt sides		
railroad siding/railroad spur - normal,	broad,unknown	rgc<>2		
Full Chart Symbology:	3123 black solid line w/ sing	le tics both sides		

Point Symbology	Line Symbology	Area Symbology
AN060		AN06
Area		
railroad yard/marshaling yar	d	
Full Chart Symbology:		
		0802 gray solid fill
AN075		AN07
Point		
railroad turntable		
Full Chart Symbology: 2080 black rt diag line inside cir		
AP010		AP01
Line		
cart track		
Full Chart Symbology:		
	3117 black thin dash line	
AP020		AP02
Line		
interchange		
Full Chart Symbology:		
	3121 black long dash line	

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
Line		
road - loose surface, fair/dry/winter		rst=2 AND wtc=2
Full Chart Symbology:	1214 block you thin solid live	
road non-energianal hard surface	1314 black very thin solid lir	wtc=1 AND exs<>28 AND med=1 AND rst=1
road - non-operational, hard surface,	national/State	WIC-T AND EXSV/20 AND ITIEU-T AND ISI-T
Full Chart Symbology:	1317 red brown double dasl	n thin lines
road - non-operational, hard surface		wtc=1 AND exs<>28 AND med<>1 AND rst=1
Full Chart Symbology:	3028 red brown thin dash lir	ne
road - non-operational, loose surface,	with median	wtc=1 AND exs<>28 AND med=1 AND rst=2
Full Chart Symbology:	4321 brown double dash thi	n line
read non-ensystic nel legge surface	4321 blown double dash thi	
road - non-operational, loose surface		wtc=1 AND exs<>28 AND med<>1 AND rst=2
Full Chart Symbology:	1571 brown thin dash line	
road - operational - loose surface		wtc=1 AND exs=28 AND med<>1 AND rst=2
Full Chart Symbology:	3012 brown thin solid line	
road - operational, hard surface, natio		wtc=1 AND exs=28 AND med=1 AND rst=1
Full Chart Symbology:		
	1315 red brown double solid	d thin lines
road - operational, hard, private/other		wtc=1 AND exs=28 AND med<>1 AND rst=1
Full Chart Symbology:	1855 red brown thin solid lin	ne
road - operational, loose surface, with	ı median	wtc=1 AND exs=28 AND med=1 AND rst=2
Full Chart Symbology:	4320 brown double solid thi	n line
road - unknown surface and weathera		rst=0 OR wtc=0
Full Chart Symbology:	1314 black very thin solid lir	
	1314 DIACK VELY HIIII SOIIQ III	IC .

DTOP

Point Symbology Line Symbology Area Symbology **AP050 AP050** Line trail **Full Chart Symbology:** 0656 gray very thin dash line AQ010 **AQ010** Line aerial cableway lines/ski lift lines **Full Chart Symbology:** 0657 gray thick dash line **AQ040 AQ040** Line bridge/overpass/viaduct Full Chart Symbology: 0751 black solid line w/ tick terminators **Point** bridge/overpass/viaduct Full Chart Symbology: 2083 black double line with flares on ends AQ045 **AQ045 Point** bridge span Full Chart Symbology: 2083 black double line with flares on ends **AQ058 AQ058**

constriction/expansion

Point

Full Chart Symbology:

2087 black opposing solid triangles pnting in

DTOP

Point Symbology Line Symbology **Area Symbology AQ060 AQ060 Point** control tower **Full Chart Symbology:** 2088 purple dot inside cir AQ065 **AQ065 Point** culvert **Full Chart Symbology:** 2090 black cir w/ C inside **AQ070 AQ070** Line ferry crossing Full Chart Symbology: 3115 black thin short dash line **Point** ferry crossing **Full Chart Symbology:** 1005 black F inside boat **AQ110 AQ110 Point** mooring mast Full Chart Symbology: 2094 purple solid ellipse extending from pole **AQ111 AQ111**

Full Chart Symbology:

Point

1171 black opposing open equi triangles

prepared raft or float bridge site

DTOP

Point Symbology Line Symbology **Area Symbology AQ113 AQ113** Line pipeline/pipe - not water pro<>116 Full Chart Symbology: 1305 brown dash thin line w/ dot pipeline/pipe - water pro=116 Full Chart Symbology: 1304 basic blue thin dash line w/ dot **AQ116 AQ116** Area pumping station Full Chart Symbology: 4262 purple thin dash line **Point** pumping station Full Chart Symbology: 2097 black sm square w/ P inside **AQ118 AQ118 Point** sharp curve(s) Full Chart Symbology: 1172 black diamond w/ curve staffed arrow **AQ120 AQ120 Point** steep grade Full Chart Symbology: 1211 black two rt pointing triangles

DTOP

Point Symbology	Line Symbology	Area Symbology	
AQ130			AQ130
Line			
tunnel			
Full Chart Symbology:	3141 black three dash one dot very thin line		
Point			
tunnel			
Full Chart Symbology: 2100 black box w/ round top w/ "T" inside			
AQ135			AQ135
Area			
vehicle stopping area/rest area			
Full Chart Symbology:	4240 red solid thin line	1610 red left diag line patt fill	
AQ140			AQ140
Area			
vehicle storage/parking area			
Full Chart Symbology:	4240 red solid thin line	1610 red left diag line patt fill	
AT010			AT010
Point			
disk/dish			
Full Chart Symbology: 2102 black satellite dish symbol			

power transmission line

Full Chart Symbology:

AT030

Line

3074 purple thin solid line w/ dots on each side

AT030

Point Symbology	Line Symbology	Area Symbology
AT050		AT050
Area		
communication building		
Full Chart Symbology:		
	3117 black thin dash line	4109 depth gray solid fill
Point		
communication building		
Full Chart Symbology: 2106 black filled square w/ outward ticks		
AT060		AT060
Line		
telephone line/telegraph line		
Full Chart Symbology:		
	3096 gray very rhin dash line w/ dot	
AT080		AT080
Point		
communication tower		
Full Chart Symbology: 2108 black tower w/ sound waves at top		
BA010		DA040
		BA010
Line		
coastline/shoreline - mangrove, mars	h slt=6or8	
Full Chart Symbology:	3042 basic blue very thin short dash line	
coastline/shoreline - not mangrove or	marsh slt<>6and<>8	3
Full Chart Symbology:		
	0621 depth med blue very thin solid line	
BA020		BA020
Area		
foreshore		
Full Chart Symbology:		OOO2 valley areas salid fill
		0803 yellow green solid fill

Point Symbology	Line Symbology	Area Symbology	
BA030			BA030
Area			
island			
Full Chart Symbology:		0822 It brown solid fill	
BA040			BA040
Area			
water (except inland)			
Full Chart Symbology:		0821 depth It blue solid fill	
BA060			BA060
Area			
beach zone			
Full Chart Symbology:	4220 med-beige thin solid line	4005 beige stiple dot patt fill	
BB010			BB010
Area			
anchorage			
Full Chart Symbology: 0902 It magenta anchor	0711 magenta dash/chevron line w/anchor symbol		
Point			
anchorage			
Full Chart Symbology: 0036 magenta anchor			

Point Symbology	Line Symbology	Area Symbology	
BB040			BB040
Area			
breakwater/groyne			
Full Chart Symbology:	0623 dk gray thin solid line		
Line			
breakwater/groyne			
Full Chart Symbology:	0623 dk gray thin solid line		
BB090			BB090
Area			
drydock			
Full Chart Symbology:	3112 black thin solid line		
BB140			BB140
Area			
jetty			
Full Chart Symbology:	0623 dk gray thin solid line		
Line			
jetty			
Full Chart Symbology:	0623 dk gray thin solid line		
BB190			BB190
Area			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
Line			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		

Point Symbology	Line Symbology	Area Symbology	
BB220			BB220
Area			
ramp (maritime)			
Full Chart Symbology:	0623 dk gray thin solid line		
Line			
ramp (maritime)			
Full Chart Symbology:	0623 dk gray thin solid line		
BB230			BB230
Line			
seawall			
Full Chart Symbology:	0623 dk gray thin solid line		
BD100			BD100
Area			
pile/piling/post			
Full Chart Symbology:	0680 black thin dotted line	0810 depth med blue solid fill	
Full Chart Symbology: Point	0680 black thin dotted line	0810 depth med blue solid fill	
	0680 black thin dotted line	0810 depth med blue solid fill	
Point	0680 black thin dotted line	0810 depth med blue solid fill	
Point pile/piling/post Full Chart Symbology:	0680 black thin dotted line	0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir	0680 black thin dotted line	0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir BD120	0680 black thin dotted line	0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir BD120 Area	0680 black thin dotted line 3186 black jagged line	0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir BD120 Area reef		0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir BD120 Area reef Full Chart Symbology:		0810 depth med blue solid fill	BD120
Point pile/piling/post Full Chart Symbology: 2264 black cir BD120 Area reef Full Chart Symbology:		0810 depth med blue solid fill	BD120

DTOP

Point Symbology Line Symbology Area Symbology

BD130

Point

rock

Full Chart Symbology:
0063 black 6 point asterisk

BD180

Point

wreck

BH010 BH010

Line

Full Chart Symbology:

2212 black solid filled shipwreck symbol

aqueduct - elevated loc=25

Full Chart Symbology:

4266 basic blue very thin solid line

aqueduct - not elevated loc<>25

Full Chart Symbology:

3050 basic blue dashed line w/ open cirs

Point Symbology	Line Symbology	Area Symbology
BH020		BH020
Area		
canal		
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill
canal - covered	cda=2	
Full Chart Symbology:	3116 black very thin dash line	4138 med blue solid fill
canal - not covered	cda<>2	
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill
Line		
canal - dry	hyc=3	
Full Chart Symbology:	3109 depth pale blue thin dotted line	
canal - perennial	hyc=0or	8
Full Chart Symbology:	3108 depth pale blue thin solid line	
BH030		ВН030
Area		
ditch		
Full Chart Symbology:	0600 black very thin solid line	0821 depth It blue solid fill
ditch - covered	cda=2	
Full Chart Symbology:	3116 black very thin dash line	0821 depth It blue solid fill
ditch - not covered	cda<>2	
Full Chart Symbology:	0600 black very thin solid line	0821 depth It blue solid fill
Line		
ditch		
Full Chart Symbology:	3107 depth pale blue very thin solid line	

Point Symbology	Line Symbology	Area Symbology
BH040		BH040
Area		
filtration beds/aeration beds		
Full Chart Symbology:		
	0600 black very thin solid line	4303 100% cyan blue rt diag line patt fill
BH050		BH050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:		
	3112 black thin solid line	4138 med blue solid fill
ВН060		BH060
Line		
flume - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
flume - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	
BH070		BH070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point		
ford		
Full Chart Symbology: 2087 black opposing solid triangles pnting in		

Point Symbology	Line Symbology	Area Symbology
ВН080		BH080
Area		
lake/pond		
Full Chart Symbology:	0600 black very thin solid line	4071 basic blue solid fill
lake/pond - not perennial	hyc<>8	
Full Chart Symbology:	1655 basic blue thin dash line	1611 basic blue dot patt fill
lake/pond - perennial	hyc=8	
Full Chart Symbology:	0600 black very thin solid line	4071 basic blue solid fill
ВН090		ВН090
Area		
land subject to inundation		
Full Chart Symbology:		4078 basic blue inundation area patt fill
BH095		BH095
Area		
marsh/swamp - deciduous	veg=24	
Full Chart Symbology:		1605 yellow-green tree-top patt fill
marsh/swamp - evergreen, mixed	veg=25or50	
Full Chart Symbology:		1606 yellow-green triangle tree patt fill
marsh/swamp - no trees	veg=0or56	
Full Chart Symbology:		4080 basic blue marsh/swamp patt fill
marsh/swamp - palm, mangrove	veg=16or19	
Full Chart Symbology:	1655 basic blue thin dash line	1613 yellow-green nipa patt fill

Point Symbology	Line Symbology	Area Symbology
BH100		BH100
Line		
moat		
Full Chart Symbology:	3142 black parallel vy thin lines w/ tics (ladder patt)	
BH110		BH110
Line		
penstock - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
penstock - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	
BH120		BH120
Line		
rapids		
Full Chart Symbology:	3117 black thin dash line	
Point		
rapids		
Full Chart Symbology: 2231 basic blue open diamond		
BH130		BH130
Area		
reservoir		
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill

Point Symbology	Line Symbology	Area Symbology
BH140		BH140
Area		
river/stream		
Full Chart Symbology:	1656 100% cyan blue very thin solid line	4154 31% cyan blue solid fill
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	4079_100% cvan blue stinnle dot natt fill
river/stream - perennial, unknown	hyc=0or8	1070 Too70 Ofan Blad Supple det pat III
Full Chart Symbology:	1656 100% cyan blue very thin solid line	4154 31% cyan blue solid fill
Line		
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	
BH145		BH145
Point		
river stream vanishing point		
Full Chart Symbology: 2232 basic blue solid arrowhead		
BH150		BH150
Area		
salt pan		
Full Chart Symbology:		4081 basic blue diag grid patt fill
BH155		BH155
Area		
salt evaporator		
Full Chart Symbology:		0911 depth med blue grid patt fill

DTOP

Point Symbology Line Symbology Area Symbology **BH160 BH160** Area sebkha **Full Chart Symbology:** 4289 basic blue stipple dot patt fill **BH170 BH170 Point** spring/water-hole **Full Chart Symbology:** 1008 basic blue filled cir w/ tail below **BH180 BH180** Line waterfall **Full Chart Symbology:** 0621 depth med blue very thin solid line **Point** waterfall Full Chart Symbology: 1009 basic blue filled diamond

BH200 BH200

Area

miscellaneous surface drainage feature

Full Chart Symbology:

4150 depth pale blue stiple dot patt fill

Line

miscellaneous surface drainage feature

Full Chart Symbology: 3109 depth pale blue thin dotted line

BI010 BI010

Point

cistern

Full Chart Symbology: 1010 basic blue solid square

Point Symbology	Line Symbology	Area Symbology
BI020		BI020
Area		
dam/weir		
Full Chart Symbology:		
		4156 black solid fill
Line		
dam/weir		
Full Chart Symbology:	3113 black solid line	
Point		
dam/weir		
Full Chart Symbology: 2238 black vertical heavy weight line		
BI030		BI030
Area		
lock		
Full Chart Symbology:	0600 black very thin solid line	0810 depth med blue solid fill
Point		
lock		
Full Chart Symbology: 2239 black open arrowhead		
BI040		BI040
Line		
sluice gate		
Full Chart Symbology:		
	0623 dk gray thin solid line	
Point		
sluice gate		
Full Chart Symbology: 0025 traffic magenta lg cir, 2 horiz & 1 vert line		

Point Symbology	Line Symbology	Area Symbology
BI050		BI050
Area		
water intake tower		
Full Chart Symbology:	0600 black very thin solid line	
Point		
water intake tower		
Full Chart Symbology: 0024 black dot inside cir		
BJ020		BJ020
Area		
moraine		
Full Chart Symbology:	1406 brown thin solid line	4032 brown stipple dot patt fill
BJ030		BJ030
Area		
glacier		
Full Chart Symbology:		4150 depth pale blue stiple dot patt fill
BJ040		BJ040
Line		
ice cliff		
Full Chart Symbology:	3047 basic blue thin long dash line	
BJ060		BJ060
Point		
ice peak/nunatak		
Full Chart Symbology: 2242 black 8 pt asterisk w/ open center		

Point Symbology	Line Symbology	Area Symbology
BJ065		BJ065
Area		
ice shelf		
Full Chart Symbology:		4151 basic blue ripple jagged patt fill
BJ070		BJ070
Area		
pack ice		
Full Chart Symbology:		4151 basic blue ripple jagged patt fill
BJ080		BJ080
Area		
polar ice		
Full Chart Symbology:		4289 basic blue stipple dot patt fill
BJ100		BJ100
Area		
snow field/ice field		
Full Chart Symbology:	4180 depth pale blue very thin short dash line	
BJ110		BJ110
Area		
tundra		
Full Chart Symbology:		4066 yellow-green variated stipple dot patt fill
CA030		CA030
Point		
spot elevation - accurate	ela=1	
Full Chart Symbology: 2243 black sm filled cir		
spot elevation - not accurate	ela<>1	
Full Chart Symbology: 1011 black sm filled cir beside +-		

Point Symbology	Line Symbology	Area Symbology
DA005		DA005
Area		
asphalt lake		
Full Chart Symbology:		
		4124 depth gray land cover/ripple patt fill
DA010		DA010
Area		
ground surface element - not rocky	smc<>84	
Full Chart Symbology:		4005 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		4005 beige stiple dot patt fill
ground surface element - rocky	smc=84	
Full Chart Symbology:		4248 It gray stipple dot patt fill
DA020		DA020
Area		
barren ground		
Full Chart Symbology:		
		4003 beige solid fill
DB010		DB010
Line		
bluff/cliff/escarpment		
Full Chart Symbology:		
	3146 black solid triangle line patt	
DB030		DB030
Point		
cave		
Full Chart Symbology:		
2247 black diag line w/ "L" on top		

Point Symbology	Line Symbology	Area Symbology	
DB060			DB060
Area			
crevice/crevasse			
Full Chart Symbology:		4020 brown left diag this line not fill	
		4030 brown left diag thin line patt fill	
Line			
crevice/crevasse - earthen	mcc=0or30		
Full Chart Symbology:	3024 red brown very thin solid line		
crevice/crevasse - snow/ice	mcc=103		
Full Chart Symbology:	1656 100% cyan blue very thin solid line		
DB070			DB070
Line			220.0
cut			
Full Chart Symbology:			
	1308 black very thin line w/ ticks		
DB080			DB080
Line			
depression			
Full Chart Symbology:	1308 black very thin line w/ ticks		
	1306 black very tilli line w/ ticks		
DB090			DB090
Line			
embankment/fill			
Full Chart Symbology:	1309 black double lines w/ ticks pointing out		
DB100			DB100
Line			
esker			
Full Chart Symbology:	3003 tan very thin solid line		
L	•		

Point Symbology	Line Symbology	Area Symbology	
DB110			DB110
Line			
fault			
Full Chart Symbology:			
	3026 red brown solid line		
DB115			DB115
Point			
geothermal feature			
Full Chart Symbology: 2248 sm brown filled cir w/ tail below			
DB145			DB145
Area			
miscellaneous obstacle			
Full Chart Symbology:			
	3112 black thin solid line	4249 black x patt fill	
Line			
miscellaneous obstacle			
Full Chart Symbology:	1403 black line w/ open diamonds		
DB150			DB150
Point			
mountain pass			
Full Chart Symbology: 2249 black)(symbol			
DB160			DB160
Area			
rock strata/rock formation			
Full Chart Symbology:		4000 harry beginned by	
		4028 brown horizontal lines patt fill	
Point			
rock strata/rock formation			
Full Chart Symbology: 2250 brown 6 pt asterisk w/ open center			

Point Symbology	Line Symbology	Area Symbology
DB170		DB170
Area		
sand dune/sand hills - crescent	ssc=22	
Full Chart Symbology:		4009 beige sand dune crescent
sand dune/sand hills - lateral	ssc=26	
Full Chart Symbology:		4010 beige sand dune lateral
sand dune/sand hills - mounds	ssc=27	
Full Chart Symbology:		4011 beige sand dune mound
sand dune/sand hills - ripple	ssc=28	
Full Chart Symbology:		4012 beige sand dune ripple
sand dune/sand hills - star	ssc=29	
Full Chart Symbology:		4013 beige sand dune star
sand dune/sand hills - transverse	ssc=30	
Full Chart Symbology:		4014 beige sand dune transverse
sand dune/sand hills - unknown	ssc=0	
Full Chart Symbology:		4008 beige sand dune default
DB180		DB180
Point		
volcano		
Full Chart Symbology: 2251 sm brown open cir w/ eight tics outside		
DB190		DB190
Line		
volcanic dike		
Full Chart Symbology:	3168 outline It brown thin dotted line	

Point Symbology	Line Symbology	Area Symbology
EA010		EA010
Area		
cropland		
Full Chart Symbology:		
		4067 yellow-green dot patt fill
EA020		EA020
Line		
hedgerow		
Full Chart Symbology:		
	3036 very dk green thin line w/rectangles one side	
EA030		EA030
Area		
nursery		
Full Chart Symbology:		
		4230 yellow-green squares in grid patt fill
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		
		4051 very dk green squares in grid patt fill
EA050		EA050
Area		
vineyards		
Full Chart Symbology:		
		4054 very dk green offset grid/dot patt fill
EB010		EB010
Area		
grassland		
Full Chart Symbology:		4060 vellow groop groot 7-M-5H
		4068 yellow-green grass patt fill

Point Symbology	Line Symbology	Area Symbology	
EB020			EB020
Area			
scrub/brush			
Full Chart Symbology:			
		4063 yellow-green stipple dot patt fill	
EC010			EC010
Area			
bamboo/cane			
Full Chart Symbology:			
		4052 green bamboo patt fill	
EC020			EC020
Area			
oasis			
Full Chart Symbology:			
		4170 It blue mixed stipple dot patt fill	
Point			
oasis			
Full Chart Symbology:			
2252 green palm tree symbol			
EC030			EC030
Area			
trees - clearing	veg=52		
Full Chart Symbology:			
		0822 It brown solid fill	
trees - deciduous, unknown	veg=0or24		
Full Chart Symbology:		1605 yellow-green tree-top patt fill	
troos overgroop mixed	veg=25or50	roce your groom also top pair iii	
trees - evergreen, mixed Full Chart Symbology:	Veg-230130		
ruii Chart Symbology:		1606 yellow-green triangle tree patt fil	ı
L			

Administrative boundary - international use=23 Full Chart Symbology: 1310 black one long dash two short dash line administrative boundary - primary, unknown use=0or26 Full Chart Symbology: 1311 black long dash short dash line	A020
administrative boundary - international use=23 Full Chart Symbology: 1310 black one long dash two short dash line administrative boundary - primary, unknown use=0or26 Full Chart Symbology: 1311 black long dash short dash line	1020
Full Chart Symbology: 1310 black one long dash two short dash line administrative boundary - primary, unknown use=0or26 Full Chart Symbology: 1311 black long dash short dash line	1020
administrative boundary - primary, unknown use=0or26 Full Chart Symbology: 1311 black long dash short dash line	\020
administrative boundary - primary, unknown use=0or26 Full Chart Symbology: 1311 black long dash short dash line	020
Full Chart Symbology: 1311 black long dash short dash line	\020
1311 black long dash short dash line	\020
FA000	\020
FA020 FA	
Line	
armistice line	
Full Chart Symbology:	
3119 black very thin long dash line	_
FA030 FA	A030
Line	
cease-fire line	
Full Chart Symbology: 3119 black very thin long dash line	
FA060 FA	A060
Line	
defacto boundary	
Full Chart Symbology:	
1310 black one long dash two short dash line	_
FA070 FA	1070
Area	
demilitarized zone	
Full Chart Symbology: 3143 black double dash very thin lines	
FA090 FA	\090
Line	
geophysical prospecting grid	
Full Chart Symbology: 0612 It gray very thin solid line	

DTOP

Point Symbology	Line Symbology	Area Symbology	
FA110			FA110
Line			
international date line			
Full Chart Symbology:	3119 black very thin long	dash line	
FA170			FA170
Area			
zone of occupation			
Full Chart Symbology:	3118 black dash line		
GB005			GB005
Area			
airport/airfield			
Full Chart Symbology:	4183 magenta solid line		
Point			
airport/airfield - military; operational		use=8or22 AND exs=28	
Full Chart Symbology: 2269 magenta airplane			
airport/airfield - non military; operati	onal	use<>8and<>22 AND exs=28	
Full Chart Symbology: 2267 aero-blue airplane			
airport/airfield - not operational		exs<>28	
Full Chart Symbology: 2268 It gray airplane			

GB010 GB010

Point

airport lighting

Full Chart Symbology:

1012 aero blue solid filled star

DTOP

Point Symbology Line Symbology Area Symbology **GB015 GB015** Area apron/hardstand Full Chart Symbology: 4194 aero-blue very thin short dash line **GB030 GB030 Point** helicopter landing pad Full Chart Symbology: 1013 black "H" inside black square **GB045 GB045** Area overrun/stopway Full Chart Symbology: 4098 purple wide rt diag line patt fill **GB055 GB055** Area runway Full Chart Symbology: 4089 magenta solid fill

GB075 GB075

Area

taxiway

Full Chart Symbology:

3070 aero-blue thin solid line

Point Symbology	Line Symbology	Area Symbology
SA050		SA050
Area		
slope polygon - % unknown	spr=999	9
Full Chart Symbology:		
		1905 basic white solid fill
slope polygon - <= 3%	spr=0	
Full Chart Symbology:		4002 It beige solid fill
slope polygon - > 10% and <= 15%	spr=2	
Full Chart Symbology:		1901 ui It brown solid fill
slope polygon - > 15% and <= 20%	spr=3	
Full Chart Symbology:		1902 dk beige solid fill
slope polygon - > 20% and <= 30%	spr=4	
Full Chart Symbology:		1903 rose solid fill
slope polygon - > 3% and <= 10%	spr=1	
Full Chart Symbology:		4003 beige solid fill
slope polygon - > 30% and <= 45%	spr=5	
Full Chart Symbology:		1904 golden yellow solid fill
slope polygon - > 45% and <= 60%	spr=6	
Full Chart Symbology:		4175 It orange solid fill
slope polygon - > 60% and <= 85%	spr=7	-
Full Chart Symbology:		1601 red solid fill
slope polygon - > 85%	spr=8	1001 Tea Solia IIII
Full Chart Symbology:		
		1906 It red brown solid fill

DTOP

Point Symbology	Line Symbology	Area Symbology	
ZB030			ZB030
Point			
boundary monument			

Full Chart Symbology: 2278 black dot in square

ZB035 ZB035

Point

control point/control station

Full Chart Symbology:

2279 black triangle w/ dot inside

ZD020 ZD020

Area

void collection area

Full Chart Symbology:

3082 gray very thin solid line

4105 It gray rt diag thin line patt fill

FFD

Point Symbology	Line Symbology	Area Symbology
AC030		AC030
Area		
settling basin/sludge pond		
Full Chart Symbology:	0600 black very thin solid line	4077 depth med blue narrow rt diag line patt fill
AL020		AL020
Area		
built-up area		
Full Chart Symbology:		4128 yellow solid fill
AL045		AL045
Area		
complex outline		
Full Chart Symbology:	3104 red solid line	
AL105		AL105
Area		
settlement		
Full Chart Symbology:		0802 gray solid fill
AL135		AL135
Area		
native settlement		
Full Chart Symbology:		0802 gray solid fill

FFD

Line Symbology **Point Symbology** Area Symbology **AN010 AN010** Line railroad - non-operational, narrow exs<>0and<>28 AND rgc=2 Full Chart Symbology: 3135 black dash line w/ single tics alt sides railroad - non-operational, normal/broad/unknown exs<>0and<>28 AND rgc<>2 **Full Chart Symbology:** 3131 black dash line w/ single tics both sides exs=0or28 AND rgc=2 railroad - operational, narrow Full Chart Symbology: 3125 black solid line w/ single tics alt sides railroad - operational, normal/broad/unknown exs=0or28 AND rgc<>2 Full Chart Symbology: 3123 black solid line w/ single tics both sides **AN050 AN050** Line railroad siding/railroad spur - narrow rgc=2 Full Chart Symbology: 3125 black solid line w/ single tics alt sides railroad siding/railroad spur - normal/broad/unknown rgc<>2 **Full Chart Symbology:** 3123 black solid line w/ single tics both sides **AN060 AN060** Area railroad yard/marshalling yard Full Chart Symbology: 0802 gray solid fill **AP010 AP010** Line cart track Full Chart Symbology: 3116 black very thin dash line

FFD

Point Symbology Line Symbology Area Symbology **AP030 AP030** Line road - loose surface, fair/dry/winter rst=2 AND wtc=2 Full Chart Symbology: 1314 black very thin solid line road - non-operational, hard surface, national/state wtc=1 AND exs<>28 AND med=1 AND rst=1 **Full Chart Symbology:** 1317 red brown double dash thin lines wtc=1 AND exs<>28 AND med<>1 AND rst=1 road - non-operational, hard surface Full Chart Symbology: 3028 red brown thin dash line wtc=1 AND exs<>28 AND med=1 AND rst=2 road - non-operational, loose surface, with median Full Chart Symbology: 4321 brown double dash thin line road - non-operational, loose surface wtc=1 AND exs<>28 AND med<>1 AND rst=2 **Full Chart Symbology:** 1571 brown thin dash line wtc=1 AND exs=28 AND med<>1 AND rst=2 road - operational - loose surface Full Chart Symbology: 3012 brown thin solid line road - operational, hard surface, national/state wtc=1 AND exs=28 AND med=1 AND rst=1 Full Chart Symbology: 1315 red brown double solid thin lines road - operational, hard surface, private/other wtc=1 AND exs=28 AND med<>1 AND rst=1 Full Chart Symbology: 1855 red brown thin solid line road - operational, loose surface, median wtc=1 AND exs=28 AND med=1 AND rst=2 Full Chart Symbology: 4320 brown double solid thin line rst=0 OR wtc=0 road - unknown surface and weatherability **Full Chart Symbology:** 1314 black very thin solid line

FFD

Point Symbology Line Symbology Area Symbology **AP050 AP050** Line trail **Full Chart Symbology:** 0656 gray very thin dash line **AQ040 AQ040** Line bridge/overpass/viaduct **Full Chart Symbology:** 0751 black solid line w/ tick terminators **Point** bridge/overpass/viaduct Full Chart Symbology: 2083 black double line with flares on ends **AQ070 AQ070** Line ferry crossing **Full Chart Symbology:** 3115 black thin short dash line **Point** ferry crossing **Full Chart Symbology:** 1005 black F inside boat **AQ130 AQ130** Line tunnel **Full Chart Symbology:** 3141 black three dash one dot very thin line **Point** tunnel Full Chart Symbology: 2100 black box w/ round top w/ "T" inside

Point Symbology	Line Symbology	Area Symbology	
BA010			BA010
Line			
coastline/shoreline - accurate	acc=1		
Full Chart Symbology:	0621 depth med blue very thin solid line		
coastline/shoreline - not accurate	acc<>1		
Full Chart Symbology:	3042 basic blue very thin short dash line		
BA030			BA030
Area			
island			
Full Chart Symbology:		0822 It brown solid fill	
BA040			BA040
Area			
water (except inland)			
Full Chart Symbology:		0821 depth It blue solid fill	
BB190			BB190
Area			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
Line			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
BE015			BE015
Line			
depth contour			
Full Chart Symbology:	3082 gray very thin solid line		

Point Symbology	Line Symbology	Area Symbology	
BH010			BH010
Line			
aqueduct - elevated	loc=25		
Full Chart Symbology:	4266 basic blue very thin solid line		
aqueduct - not elevated	loc<>25		
Full Chart Symbology:	3050 basic blue dashed line w/ open cirs		
BH020			BH020
Area			
canal - non-perennial, dry, unknown	hyc<>8		
Full Chart Symbology:	4265 basic blue thin solid line	1608 basic blue stipple dot patt fill	
canal - perennial	hyc=8		
Full Chart Symbology:		4138 med blue solid fill	
Line			
canal - not perennial	hyc<>8		
Full Chart Symbology:	3167 depth pale blue thin short dash line		
canal - perennial	hyc=8		
Full Chart Symbology:	3108 depth pale blue thin solid line		
ВН030			BH030
Area			
ditch			
Full Chart Symbology:		0821 depth It blue solid fill	
Line			
ditch			
Full Chart Symbology:	0621 depth med blue very thin solid line		

Point Symbology	Line Symbology	Area Symbology
BH040		BH040
Area		
filtration beds/aeration beds		
Full Chart Symbology:	0600 black very thin solid line	4303 100% cyan blue rt diag line patt fill
	5500 Black very timi sona inte	
BH050		BH050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:	3112 black thin solid line	4138 med blue solid fill
BH070		BH070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point		
ford		
Full Chart Symbology: 2087 black opposing solid triangles pnting in		
BH080		BH080
Area		
lake/pond - dry	hyc=3	
Full Chart Symbology:	1655 basic blue thin dash line	1611 basic blue dot patt fill
lake/pond - perennial, unknown	hyc=0or8	
Full Chart Symbology:		4071 basic blue solid fill
BH090		BH090
Area		
land subject to inundation		
Full Chart Symbology:		4078 basic blue inundation area patt fill

Point Symbology	Line Symbology	Area Symbology
BH095		BH095
Area		
marsh/swamp		
Full Chart Symbology:		
		4080 basic blue marsh/swamp patt fill
BH130		BH130
Area		
reservoir		
Full Chart Symbology:		
	0600 black very thin solid line	4138 med blue solid fill
BH135		BH135
Area		
rice field		
Full Chart Symbology:		
		4085 basic blue rice patt fill
BH140		BH140
Area		
river/stream - dry, non-perennial	hyc=3or6	
Full Chart Symbology:		
	4182 100% cyan blue very thin short dash line	4079 100% cyan blue stipple dot patt fill
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	4154 31% cyan blue solid fill
I i		
Line	h.ve=2e=C	
river/stream - dry, non-perennial	hyc=3or6	,
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:		
	1656 100% cyan blue very thin solid line	

FFD

Point Symbology Line Symbology Area Symbology **BH155 BH155** Area salt evaporator Full Chart Symbology: 0911 depth med blue grid patt fill **BI020 BI020** Area dam/weir Full Chart Symbology: 4156 black solid fill Line dam/weir Full Chart Symbology: 3113 black solid line **Point** dam/weir **Full Chart Symbology:** 2238 black vertical heavy weight line **BI030 BI030** Area lock Full Chart Symbology: 0600 black very thin solid line 0810 depth med blue solid fill **Point** lock Full Chart Symbology: 2239 black open arrowhead

Point Symbology	Line Symbology	Area Symbology
CA010		CA010
Line		
contour line (land) - depression	hqc=5	
Full Chart Symbology:	1307 red brown vy thin line w/ ticks on inside	
contour line (land) - index, unknown	hqc=0or1	
Full Chart Symbology:	3026 red brown solid line	
contour line (land) - intermediate dep	ression hqc=6	
Full Chart Symbology:	4305 red brown very very thin line w/ tick mark	s
contour line (land) - intermediate	hqc=2	
Full Chart Symbology:	4304 red brown very very thin solid line	
CA030		CA030
Point		
spot elevation - accurate	ela=1	
Full Chart Symbology: 2243 black sm filled cir		
spot elevation - not accurate	ela<>1	
Full Chart Symbology: 1011 black sm filled cir beside +-		
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		4051 very dk green squares in grid patt fill

Point Symbology	Line Symbology		Area Symbology	
EC030				EC030
Area				
trees - deciduous, unknown		tre=0or1		
Full Chart Symbology:			1605 valley green tree ten nett fill	
troce everyon mixed		tre=2or3	1605 yellow-green tree-top patt fill	
trees - evergreen, mixed		tre=zor3		
Full Chart Symbology:			1606 yellow-green triangle tree patt fil	I
FA000				FA000
Line				
administrative boundary - internation	al	use=23		
Full Chart Symbology:	1310 black one long dash to	wo short dash line		
administrative boundary - primary, un		use=0or26		
Full Chart Symbology:	1311 black long dash short	dash line		
	TOTT Black long dash short	dasir iirie		
FA001				FA001
Area				
administrative area				
Full Chart Symbology:	0633 It gray thin dash line			
FA020				FA020
Line				171020
armistice line				
Full Chart Symbology:				
	3119 black very thin long da	ash line		
FA030				FA030
Line				
cease-fire line				
Full Chart Symbology:	3119 black very thin long da	ash line		

FFD

Line Symbology **Point Symbology Area Symbology** FC021 FC021 Line maritime limit boundary - international (at sea) mbl=9 **Full Chart Symbology:** 1451 purple dash line w/ tics both sides (- + -) maritime limit boundary - unknown mbl=0 Full Chart Symbology: 3054 It magenta very thin short dash line **GB005 GB005** Area airport/airfield Full Chart Symbology: 4183 magenta solid line **Point** airport/airfield - civilian, operational use<>8and<>22 AND exs=28 Full Chart Symbology: 2267 aero-blue airplane airport/airfield - military, operational use=8or22 AND exs=28 **Full Chart Symbology:** 2269 magenta airplane airport/airfield - non-operational exs<>28 Full Chart Symbology: 2268 It gray airplane **GB035 GB035** Area heliport **Full Chart Symbology:** 4184 magenta very thin short dash line **Point** heliport **Full Chart Symbology:** 2271 purple "H" inside cir

FFD

Point Symbology Line Symbology Area Symbology

GB055

GB055

Area

runway

Full Chart Symbology:
4089 magenta solid fill

GB065 GB065

Area

seaplane base

Full Chart Symbology:
4186 magenta thin dash line

Point

seaplane base

Full Chart Symbology:

0080 magenta solid filled diamond inside cir

ZD020 ZD020

Area

void collection area

Full Chart Symbology:

3082 gray very thin solid line

4105 It gray rt diag thin line patt fill

TOD Level 0

Point Symbology Line Symbology Area Symbology

BG010 BG010

Point

current flow - general; direction unknown cur=0 OR dof=0

Full Chart Symbology:

0071 gray arrow w/ 2 feathers and 2?

current flow - ocean; direction known cur=5 AND dof<>0

Full Chart Symbology:

0072 gray arrow w/ two feathers

FC021 FC021

Line

maritime limit boundary - limit of territorial waters mbl=6

Full Chart Symbology:

0633 It gray thin dash line

maritime limit boundary - other mbl<>6

Full Chart Symbology:

0633 It gray thin dash line

Point Symbology	Line Symbology	Area Symbology
FC031		FC031
Area		
maritime area - ASW area		mac=106
Full Chart Symbology:	0754 UI vy dk blue vy thin lii inside	ne w/5 rows dots
maritime area - caution areas		mac=141or142or155
Full Chart Symbology: 0097 traffic It magenta! Inside Ig circle	0742 magenta dash/chevror symbol	n line w/caution
maritime area - major op area		mac=104
Full Chart Symbology:	0681 UI very dk blue thin so	lid line
maritime area - marine sanctuary		mac=101
Full Chart Symbology: 0081 It magenta square w/ I	0734 magenta dash/chevror	n line
maritime area - military area, minefield	l	mac=143or148or149or158
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle	0734 magenta dash/chevror	ı line
maritime area - military practice areas		mac=27or28or115or116or140or146or147or150or15 1or152or153or157or159
Full Chart Symbology: 0093 traffic It magenta! Inside Ig circle	0734 magenta dash/chevror	n line
maritime area - minor op area		mac=105
Full Chart Symbology:	0682 UI very dk blue very th	in solid line
maritime area - restricted areas		mac=0or144or145or154or999
Full Chart Symbology: 0087 traffic It magenta! In Ig cir w/ magenta?	0734 magenta dash/chevror	n line
maritime area - safety lane		mac=156
Full Chart Symbology:	0716 gray dash/chevron line	,
maritime area - sea test range		mac=114
Full Chart Symbology:	0683 UI very dk blue dotted	line

Point Symbology	Line Symbology		Area Symbology	
FC031			F	C031
maritime area - submarine op area		mac=107		
Full Chart Symbology:				
	0755 UI vy dk blue vy thin li ticks	ine w/vert inward		
maritime area - submarine traffic lane	submerged	mac=108		
Full Chart Symbology:	0756 feature brown vy thin ticks	line w/vert inward		
maritime area - submarine traffic lane	surface	mac=109		
Full Chart Symbology:				
	0757 feature brown vy thin ins	line w/3 rows dots		
maritime area - surface traffic lane		mac=110		
Full Chart Symbology:	0758 feature brown 5 dot v	y thin line		
FC036			F	C036
Area				
restricted area				
Full Chart Symbology: 0087 traffic It magenta! In Ig cir w/ magenta?	0734 magenta dash/chevro	n line		
FC101			F	C101
Line				
theodolite line				
Full Chart Symbology:	0004 and this polidities			
	0684 red thin solid line			
FC102			F	C102
Line				
range center line				
Full Chart Symbology:	3112 black thin solid line			

Point Symbology	Line Symbology	Area Symbology	
FC170			FC170
Area			
safety fairway			
Full Chart Symbology: 0091 gray ? inside angle brackets inside dashes	0716 gray dash/chevron lin	е	
GA005			GA005
Area			
air lanes/corridors		aua=0or20or36or998	
Full Chart Symbology:	0759 green thin line w/stage	rd dots inside	
airspace - air defense zone		aua=2	
Full Chart Symbology:	0760 magenta vy thin line v inside	// 3 row vert dots	
airspace - controlled		aua=9or21or22or23or34or46or70	
Full Chart Symbology:	0761 green vy thin line w/3	row vert dots	
airspace - flight information region		aua=13	
Full Chart Symbology:	0762 green thin line with tic	ks inside	
airspace - upper control area		aua=39	
Full Chart Symbology:	0685 green thin solid line		
airspace - upper flight information reg	gion	aua=40	
Full Chart Symbology:	0763 green thin line with op	en tabs inside	
GA015			GA015
Area			
special use airspace - prohibited,rest	ricted	aul=2or3	
Full Chart Symbology:	0765 magenta thin line w/ If	t angle ticks inside	
special use airspace - warning area		aul=0or5or6	
Full Chart Symbology:	0764 magenta thin line w/ r	t angle ticks inside	

Point Symbology	Line Symbology		Area Symbology	
GA035				GA035
Point				
navaids (aeronautical) - NDB		nst=17		
Full Chart Symbology: 0517 magenta circle with dot in center				
navaids (aeronautical) - TACAN		nst=23		
Full Chart Symbology: 0521 magenta hexagon, open outer rectgls, cntr dot				
navaids (aeronautical) - unknown		nst=0		
Full Chart Symbology: 0525 magenta open very very thin circle				
navaids (aeronautical) - VOR/DME		nst=21		
Full Chart Symbology: 0519 magenta hexagon in square w/ dot in center				
navaids (aeronautical) - VOR		nst=20		
Full Chart Symbology: 0518 magenta hexagon with dot in center				
navaids (aeronautical) - VORTAC		nst=22		
Full Chart Symbology: 0520 magenta hexagon, solid outer rectgls, cntr dot				
GA055				GA055
Point				
waypoint/reporting-calling in point	- compulsory	wpt=10		
Full Chart Symbology: 0523 green solid triangle				
waypoint/reporting-calling in point	- non compulsory	wpt<>10		
Full Chart Symbology: 0522 green open triangle				

TOD Level 0

Full Chart Symbology:

Point Symbology	Line Symbology	Area Symbology	
ZB035			ZB035
Point			
control point/control station			
Full Chart Symbology: 0078 black sm cir			
ZD020			ZD020
Area			
void collection area			

4105 It gray rt diag thin line patt fill

3082 gray very thin solid line

TOD Level 1

Point Symbology Line Symbology Area Symbology **BD005 BD005 Point** miscellaneous underwater feature - reported exs=58 Full Chart Symbology: 0525 magenta open very very thin circle miscellaneous underwater feature - sonar confirmed exs=57 **Full Chart Symbology:** 0524 magenta open circle w/ diagonal cross bar **BD180 BD180 Point** wreck - reported exs=58 Full Chart Symbology: 0525 magenta open very very thin circle

BE015 BE015

exs=57

Line

depth contour - accurate; equals ssdc acc=1 AND crv=ssdc

Full Chart Symbology:

wreck - sonar confirmed

0524 magenta open circle w/ diagonal cross

Full Chart Symbology:

0609 depth dk gray thin solid line

depth contour - accurate; not equal ssdc acc=1 AND crv<>ssdc

Full Chart Symbology:

0608 depth gray very thin solid line

depth contour - not accurate; equals ssdc acc=2 AND crv=ssdc

Full Chart Symbology:

0613 depth dk gray thin dash line

depth contour - not accurate; not equal ssdc acc=2 AND crv<>ssdc

Full Chart Symbology:

0614 depth gray very thin dash line

Point Symbology	Line Symbology		Area Symbology	
BE019				BE019
Area				
depth area - depth unknown		cvl=-32767		
Full Chart Symbology:			0803 yellow green solid fill	
depth area - depth less than 200m		cvl>=0and<20		
Full Chart Symbology:				
			0810 depth med blue solid fill	
depth area - depth greater than 200	n	cvl>=200		
Full Chart Symbology:			0005 11 17 51	
			0805 depth white fill	
BE020				BE020
Point				
sounding - circle (light) indicating lo	ow accuracy	acc<>1		
Full Chart Symbology: 1251 sounding gray circle				
BE030				BE030
BE030 Area				BE030
				BE030
Area				BE030
Area track swath			0820 depth pale blue solid fill	BE030
Area track swath			0820 depth pale blue solid fill	BE030
Area track swath Full Chart Symbology:			0820 depth pale blue solid fill	
Area track swath Full Chart Symbology: BE040			0820 depth pale blue solid fill	
Area track swath Full Chart Symbology: BE040 Line	0670 depth med blue thin da	sh line	0820 depth pale blue solid fill	
track swath Full Chart Symbology: BE040 Line track line	0670 depth med blue thin da	sh line	0820 depth pale blue solid fill	
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology:	0670 depth med blue thin da	sh line	0820 depth pale blue solid fill	BE040
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology:	0670 depth med blue thin da	sh line	0820 depth pale blue solid fill	BE040
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology: ZD020 Area	0670 depth med blue thin das 3082 gray very thin solid line	sh line	0820 depth pale blue solid fill 4105 It gray rt diag thin line patt fill	BE040

TOD Level 2

Point Symbology Line Symbology Area Symbology

BD005

Point

miscellaneous underwater feature - reported exs=58

Full Chart Symbology:

0525 magenta open very very thin circle

miscellaneous underwater feature - sonar confirmed exs=57

Full Chart Symbology:

0524 magenta open circle w/ diagonal cross

bar

BD180 BD180

Point

wreck - reported exs=58

Full Chart Symbology:

0525 magenta open very very thin circle

wreck - sonar confirmed exs=57

Full Chart Symbology:

0524 magenta open circle w/ diagonal cross

bar

BE015 BE015

Line

depth contour - accurate; equals ssdc acc=1 AND crv=ssdc

Full Chart Symbology:

0609 depth dk gray thin solid line

depth contour - accurate; not equal ssdc acc=1 AND crv<>ssdc

Full Chart Symbology:

0608 depth gray very thin solid line

depth contour - not accurate; equals ssdc acc=2 AND crv=ssdc

Full Chart Symbology:

0613 depth dk gray thin dash line

depth contour - not accurate; not equal ssdc acc=2 AND crv<>ssdc

Full Chart Symbology:

0614 depth gray very thin dash line

Point Symbology	Line Symbology		Area Symbology	
BE019				BE019
Area				
depth area - depth unknown		cvl=-32767		
Full Chart Symbology:			0803 yellow green solid fill	
depth area - depth less than 200m		cvl>=0and<2	00	
Full Chart Symbology:			0810 depth med blue solid fill	
depth area - depth greater than 200n	n	cvl>=200		
Full Chart Symbology:			0805 depth white fill	
BE020				BE020
Point				
sounding - circle (light) indicating lo	w accuracy	acc<>1		
Full Chart Symbology: 1251 sounding gray circle				
BE030				BE030
DE000				
Area				
Area			0820 depth pale blue solid fill	
Area track swath			0820 depth pale blue solid fill	BE040
Area track swath Full Chart Symbology:			0820 depth pale blue solid fill	BE040
Area track swath Full Chart Symbology: BE040			0820 depth pale blue solid fill	BE040
Area track swath Full Chart Symbology: BE040 Line	0670 depth med blue thin	dash line	0820 depth pale blue solid fill	BE040
track swath Full Chart Symbology: BE040 Line track line	0670 depth med blue thin	dash line	0820 depth pale blue solid fill	BE040 ZD020
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology:	0670 depth med blue thin	dash line	0820 depth pale blue solid fill	
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology:	0670 depth med blue thin	dash line	0820 depth pale blue solid fill	
track swath Full Chart Symbology: BE040 Line track line Full Chart Symbology: ZD020 Area	0670 depth med blue thin		0820 depth pale blue solid fill 4105 It gray rt diag thin line patt fill	

TOD Level 4

Point Symbology Line Symbology Area Symbology **BD005 BD005 Point** miscellaneous underwater feature - not obstruction wkt<>35 **Full Chart Symbology:** 0526 purple open very thin circle miscellaneous underwater feature - obstruction wkt=35 **Full Chart Symbology:** 0052 depth med blue fill cir w/ black dotted outline **BD180 BD180 Point** wreck Full Chart Symbology: 0066 black horiz bar w/3 ticks **BE015 BE015** Line depth contour - accurate, index acc=1 AND hqc=1 **Full Chart Symbology:** 0609 depth dk gray thin solid line depth contour - accurate, not index acc=1 AND hqc<>1 Full Chart Symbology: 0608 depth gray very thin solid line depth contour - not accurate, index acc<>1 AND hqc=1 **Full Chart Symbology:** 0688 depth dk gray thin long dash line depth contour - not accurate, not index acc<>1 AND hqc<>1 Full Chart Symbology: 0689 depth gray very thin long dash line

Point Symbology	Line Symbology		Area Symbology	
BE019				BE019
Area				
depth area - depth unknown		cvl=-32767		
Full Chart Symbology:			0803 yellow green solid fill	
depth area - depth less than 123m		cvl>=0and<12	23	
Full Chart Symbology:			0810 depth med blue solid fill	
depth area - depth greater than 123m		cvl>=123		
Full Chart Symbology:			0805 depth white fill	
BE020				BE020
Point				
sounding - circle (light) indicating lov	v accuracy	acc<>1		
Full Chart Symbology: 1251 sounding gray circle				
BF012				BF012
Point				
hull integrity test site core site				
Full Chart Symbology: 0022 black cir				
FC178				FC178
Area				
hull integrity test area				
Full Chart Symbology:	0687 purple thick long da	sh line		
FC179				FC179
Area				
side scan sonar coverage				
Full Chart Symbology:			1901 ui lt brown solid fill	

TOD Level 4

Point Symbology

_		-	 -	= -
FC180				FC180

Line Symbology

Area

hull integrity test site bottom feature - cable htc=509

Full Chart Symbology:

0767 purple broken zig-zag line w/ flash symbol

hull integrity test site bottom feature - height > 2m

htc=503

Full Chart Symbology:

0826 42% purple solid fill

Area Symbology

hull integrity test site bottom feature - hght not >2m,not slope>10 deg, not cable

htc<>503and<>507and<>509

Full Chart Symbology:

0825 21% purple solid fill

hull integrity test site bottom feature - slope > 10 degrees htc=507

Full Chart Symbology:

0766 purple very thin solid line with inward

ticks

Line

hull integrity test site bottom feature - cable

htc=509

Full Chart Symbology:

0767 purple broken zig-zag line w/ flash symbol

hull integrity test site bottom feature - not cable, not slope htc<>507and<>509

> 10 degrees

Full Chart Symbology:

0686 purple thick solid line

hull integrity test site bottom feature - slope > 10 degrees htc=507

Full Chart Symbology:

0766 purple very thin solid line with inward

ticks

Point

hull integrity test site bottom feature

Full Chart Symbology:

0527 purple filled circle

Point Symbology	Line Symbology	Area Symbology	
ZD020			ZD020
Area			
void collection area			
Full Chart Symbology:			
	3082 gray very thin solid line	4105 It gray rt diag thin line pat	t fill

Point Symbology	Line Symbology	Area Symbology
AA010		AA010
Area		
mine		
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line	
Line		
mine		
Full Chart Symbology:	3116 black very thin dash line	
Point		
mine		
Full Chart Symbology: 2001 black pick & hammer		
AA012		AA012
Area		
quarry		
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line	
Line		
quarry		
Full Chart Symbology:	3116 black very thin dash line	
Point		
quarry		
Full Chart Symbology: 2001 black pick & hammer		
AA040		AA040
Point		
rig/superstructure		
Full Chart Symbology: 2002 black tower		

Point Symbology	Line Symbology	Area Symbology
AA050		AA050
Point		
well - not water	pro<>116	
Full Chart Symbology: 0078 black sm cir		
well - water	pro=116	
Full Chart Symbology: 2003 basic blue solid filled cir		
AB000		AB000
Area		
disposal site/waste pile		
Full Chart Symbology:		0822 It brown solid fill
AB010		AB010
Area		
wrecking yard/scrap yard		
Full Chart Symbology:		0822 It brown solid fill
AC000		AC000
Area		
processing plant/treatment plant		
Full Chart Symbology:	0624 feature brown very thin dash line	
AC020		AC020
Point		
catalytic cracker		
Full Chart Symbology: 2005 black building w/ 2 smokestacks above		
AC030		AC030
Area		
settling basin/sludge pond		
Full Chart Symbology:	0600 black very thin solid line	4077 depth med blue narrow rt diag line patt fill
	0600 black very thin solid line	4077 depth med blue narrow rt diag line p

Point Symbology	Line Symbology	Area Symbology	
AD010			AD010
Area			
power plant			
Full Chart Symbology:	0600 block years thin colid line	0804 brown solid fill	
	0600 black very thin solid line	0004 brown solid iiii	
AD030			AD030
Area			
substation/transformer yard			
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill	
Point			
substation/transformer yard			
Full Chart Symbology: 2011 black filled square w/ zap on top			
AF010			AF010
Point			7.11.0.10
chimney/smokestack			
Full Chart Symbology: 0003 black chimney symbol			
AF020			AF020
Line			
conveyor			
Full Chart Symbology:	3086 gray very thin short dash line		
AF030			AF030
Area			
cooling tower			
Full Chart Symbology:			
	3117 black thin dash line	4100 It gray solid fill	
Point			
cooling tower			
Full Chart Symbology: 2016 black dot inside double cir			
		·	

UVMap

Point Symbology Line Symbology Area Symbology

AF040 AF040

Point

crane

Full Chart Symbology:

0005 feature brown crane symbol

AF070 AF070

Point

flare pipe

Full Chart Symbology:

0006 black flare stack symbol

AH010 AH010

Area

bastion/rampart/fortification

Full Chart Symbology:

4186 magenta thin dash line

Line

bastion/rampart/fortification

Full Chart Symbology:

3052 magenta thin solid line

Point

bastion/rampart/fortification

Full Chart Symbology:

2043 black four black squares w/ connection

UVMap

mobile home/mobile home park

Full Chart Symbology:

Point Symbology Line Symbology **Area Symbology** AH050 AH050 Area fortification **Full Chart Symbology:** 4186 magenta thin dash line Line fortification **Full Chart Symbology:** 3052 magenta thin solid line **Point** fortification Full Chart Symbology: 2043 black four black squares w/ connection **AH060 AH060** Area underground bunker **Full Chart Symbology:** 3117 black thin dash line 4100 It gray solid fill Line underground bunker **Full Chart Symbology:** 3054 It magenta very thin short dash line **Point** underground bunker Full Chart Symbology: 2072 gray shadowed square AI020 AI020 Area

3114 black very thin short dash line

Point Symbology	Line Symbology	Area Symbology	
AJ030			AJ030
Area			
feedlot/stockyard/holding pen			
Full Chart Symbology:	4217 beige very thin solid line		
AJ050			AJ050
Point			
windmill			
Full Chart Symbology: 0008 black sm cir w/ X on top			
AK020			AK020
Point			
amusement park attraction			
Full Chart Symbology: 2029 black ferris wheel			
AK030			AK030
Area			
amusement park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK040			
AINUTU			AK040
Area			AK040
			AK040
Area	4279 nav orange thin short dash line		AK040
Area athletic field	4279 nav orange thin short dash line		AK040 AK060
Area athletic field Full Chart Symbology:	4279 nav orange thin short dash line		
Area athletic field Full Chart Symbology: AK060	4279 nav orange thin short dash line		
Area athletic field Full Chart Symbology: AK060 Area	4279 nav orange thin short dash line 3117 black thin dash line	4045 green solid fill	

Point Symbology	Line Symbology	Area Symbology	
AK070			AK070
Area			
drive in theater			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK090			AK090
Area			
fairgrounds			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK100			AK100
Area			
golf course			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK110			AK110
Area			
grandstand			
Full Chart Symbology:		4156 black solid fill	
AK120			AK120
Area			
park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	

Point Symbology	Line Symbology	Area Symbology
AK130		AK130
Area		
race track		
Full Chart Symbology:	3113 black solid line	
Line		
race track		
Full Chart Symbology:	3113 black solid line	
AK150		AK150
Line		
ski jump		
Full Chart Symbology:	0656 gray very thin dash line	
Point		
ski jump		
Full Chart Symbology: 2034 black skier		
AK160		AK160
Area		
stadium/amphitheater		
Full Chart Symbology:	3113 black solid line	
AK170		AK170
Area		
swimming pool		
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill
AK180		AK180
Area		
zoo/safari park		
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill

Point Symbology	Line Symbology	Area Symbology
AL015		AL015
Area		
building - generic		bfc<>2and<>3and<>5and<>8and<>28and<>52and <>121and<>15and<>6and<>7and<>114and<>100a nd<>60and<>108
Full Chart Symbology:		4156 black solid fill
building - government		bfc=2or3or5or8or28or52or121
Full Chart Symbology:		1601 red solid fill
building - hospital		bfc=6or100
Full Chart Symbology:		4015 beige-rose solid fill
building - house of worship		bfc=7or114
Full Chart Symbology:		4002 It beige solid fill
building - school		bfc=15or60or108
Full Chart Symbology:		4025 feature brown solid fill
Line		
building - generic		bfc<>2and<>3and<>5and<>8and<>15and<>28and <>52and<>121and<>6and<>7and<>114and<>100a nd<>60and<>108
Full Chart Symbology:	3112 black thin solid line	
building - government		bfc=2or3or5or8or28or52or121
Full Chart Symbology:	3104 red solid line	
building - hospital		bfc=6or100
Full Chart Symbology:	3153 beige-rose thin solid	line
building - house of worship		bfc=7or114
Full Chart Symbology:	3001 It beige thin solid line	

Point Symbology	Line Symbology	Area Symbology
AL015		AL015
building - school		bfc=15or60or108
Full Chart Symbology:	1406 brown thin solid line	
Point		
building - generic (industry)		bfc=1or21or22or23or24or25or26or27or29or30or40 or54or59or71or72or73or74or75or76
Full Chart Symbology: 1202 feature brown filled square w/ brown outln		
building - generic (industry)		bfc=81or83or84or85or86or89or90or94or102or104or 110or112or113or116or120or124or125
Full Chart Symbology: 1202 feature brown filled square w/ brown outln		
building - generic (population)		bfc=0or4or9or10or11or16or17or18or19or20or33or3 4or36or39or51or53or55or56or57or58
Full Chart Symbology: 2036 black sm filled square		
building - generic (population)		bfc=63or69or70or87or88or91or92or93or95or97or98 or99or103or105or106or107or109or111or115or117o r118or122or126or127or128or999
Full Chart Symbology: 2036 black sm filled square		
building - government		bfc=2or3or5or8or12or13or14or28or31or35or37or38 or52or61or62or64or65or66or67or77or78or79or80or 96or101or119or121or123or723
Full Chart Symbology: 1001 red filled square black outline		
building - hospital		bfc=6or100
Full Chart Symbology: 1002 black filled cir w/ white cross inside		
building - house of worship		bfc=7or114 AND hwt=0or2or3or4or7 OR bfc=50
Full Chart Symbology: 2045 black filled square w/ cross on top		
building - house of worship		bfc=7or114 AND hwt=11or14or15or16
Full Chart Symbology: 0011 black X inscribed in rectangle		

Point Symbology	Line Symbology	Area Symbology	
AL015			AL015
building - house of worship		bfc=7or114 AND hwt=20	
Full Chart Symbology: 2047 black filled square w/ T on top			
building - house of worship		bfc=7or114 AND hwt=21	
Full Chart Symbology: 2048 black pinwheel			
building - house of worship		bfc=7or114 AND hwt=5or6or9	
Full Chart Symbology: 0012 black mosque/minaret w/ dot in circle			
building - lighthouse		bfc=82	
Full Chart Symbology: 2044 black lighthouse symbol			
building - school, college, seminary		bfc=15or60or108	
Full Chart Symbology: 2042 black filled square w/ flag on top			
AL020			AL020
Area			
built-up area			
Full Chart Symbology:		4128 yellow solid fill	
AL030			AL030
Area			
cemetery			
Full Chart Symbology:	0600 black very thin solid lir	ne 0804 brown solid fill	
Point			
cemetery			
Full Chart Symbology: 1003 black cross			

Point Symbology	Line Symbology	Area Symbology
AL045		AL04
Area		
complex outline		
Full Chart Symbology:		
	3104 red solid line	
AL070		AL07
Line		
fence		
Full Chart Symbology:		
	3148 black patt line -x -x -x	
AL100		AL10
Point		
hut		
Full Chart Symbology:		
2058 gray filled square		
AL120		AL12
Area		
missile site		
Full Chart Symbology:		
	3061 magenta thin dotted line	
Line		
missile site		
Full Chart Symbology:		
	3054 It magenta very thin short das	h line
Point		
missile site		
Full Chart Symbology:		
1004 black pencil shape symbol		

Area monument Full Chart Symbology: 4175 It orange solid fill Point monument Full Chart Symbology: 2063 black monument symbol AL135 Ala Area native settlement Full Chart Symbology: 0802 gray solid fill Point	.130
monument Full Chart Symbology: 4175 It orange solid fill Point monument Full Chart Symbology: 2063 black monument symbol AL 135 Area native settlement Full Chart Symbology: 0802 gray solid fill	
Full Chart Symbology: Point monument Full Chart Symbology: 2063 black monument symbol AL 135 Area native settlement Full Chart Symbology: 0802 gray solid fill Point	
Point monument Full Chart Symbology: 2063 black monument symbol AL135 Area native settlement Full Chart Symbology: 0802 gray solid fill	
Point monument Full Chart Symbology: 2063 black monument symbol AL135 Area native settlement Full Chart Symbology: 0802 gray solid fill Point	
monument Full Chart Symbology: 2063 black monument symbol AL135 Area native settlement Full Chart Symbology: 0802 gray solid fill	
Full Chart Symbology: 2063 black monument symbol AL135 Area native settlement Full Chart Symbology: 0802 gray solid fill Point	
AL135 Area native settlement Full Chart Symbology: 0802 gray solid fill	
Area native settlement Full Chart Symbology: 0802 gray solid fill Point	
native settlement Full Chart Symbology: 0802 gray solid fill Point	.135
Full Chart Symbology: 0802 gray solid fill Point	
Point	
Point	
native settlement	
Full Chart Symbology: 2060 black square w/ S inside	
AL140 AL	.140
Area	
particle accelerator	
Full Chart Symbology:	
4089 magenta solid fill	
AL170 AL	.170
Area	
plaza/city square	
Full Chart Symbology:	$\overline{}$
4018 It tan solid fill	

UVMap

Point Symbology	Line Symbology	Area Symbology	
AL200			AL200
Area			
ruins			
Full Chart Symbology:			
	3114 black very thin short dash line		
Point			
ruins			
Full Chart Symbology: 0002 feature brown filled square w/ black outline			
AL240			AL240
Point			
tower (non-communication)			
Full Chart Symbology: 2071 black dot inside cir			
AL250			AL250
Area			
underground dwelling			
Full Chart Symbology:	3117 black thin dash line	4100 lt gray solid fill	
Point			
underground dwelling			
Full Chart Symbology: 2072 gray shadowed square			
AL260			AL260
Line			
wall			
Full Chart Symbology:			

3113 black solid line

Point Symbology	Line Symbology	Area Symbology	
AM010			AM010
Area			
depot (storage)			
Full Chart Symbology:		4028 brown horizontal lines patt fill	
Point			
depot (storage)			
Full Chart Symbology: 2073 black square w/ diag line inside			
AM020			AM020
Area			
grain bin/silo			
Full Chart Symbology:		4028 brown horizontal lines patt fill	
Point			
grain bin/silo			
Full Chart Symbology: 2074 brown cir			
AM030			AM030
Area			
grain elevator			
Full Chart Symbology:		4028 brown horizontal lines patt fill	
Point			
grain elevator			
Full Chart Symbology: 0004 black tower symbol			
AM040			AM040
Area			
mineral pile			
Full Chart Symbology:		4123 depth gray stiple patt fill	

UVMap

2078 basic blue dot inside cir

Point Symbology Line Symbology **Area Symbology AM060 AM060** Area storage bunker/storage mound Full Chart Symbology: 4114 depth gray horizontal lines patt fill **Point** storage bunker/storage mound Full Chart Symbology: 2076 red brown filled semicircle **AM070 AM070** Area tank Full Chart Symbology: 4156 black solid fill **Point** tank **Full Chart Symbology:** 2019 black sm filled cir **AM080 AM080** Area water tower Full Chart Symbology: 4156 black solid fill **Point** water tower **Full Chart Symbology:**

Point Symbology	Line Symbology	Area Symbology	
AN010			AN010
Line			
railroad -non-op, narrow		exs<>0and<>28 AND rgc=2	
Full Chart Symbology:	3135 black dash line w/ sir	ngle tics alt sides	
railroad -non-op, unkn/norml/brd		exs<>0and<>28 AND rgc<>2	
Full Chart Symbology:	3131 black dash line w/ sir	ngle tics both sides	
railroad -op, narrow		exs=0or28 AND rgc=2	
Full Chart Symbology:	3125 black solid line w/ sin	gle tics alt sides	
railroad -op, unkn/norml/brd		exs=0or28 AND rgc<>2	
Full Chart Symbology:	3123 black solid line w/ sin	gle tics both sides	
AN050			AN050
Line			
railroad siding/railroad spur - narrow		rgc=2	
Full Chart Symbology:	3125 black solid line w/ sin	gle tics alt sides	
railroad siding/railroad spur - normal,	broad,unknown	rgc<>2	
Full Chart Symbology:	3123 black solid line w/ sin	gle tics both sides	
AN060			AN060
Area			
railroad yard/marshaling yard			
Full Chart Symbology:		0802 gray solid fill	
AN075			AN075
Area			
railroad turntable			
Full Chart Symbology:		4167 black cross hatch patt fill	

UVMap

Point Symbology	Line Symbology	Area Symbology
AP010		AP010
Line		
cart track		
Full Chart Symbology:		
	3117 black thin dash line	

AP020 AP020

Area

interchange

Full Chart Symbology:

0600 black very thin solid line
1602 lights yellow solid fill

Line

interchange

Full Chart Symbology:

3121 black long dash line

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
Area		
road - non-operational		exs=5or6or7
Full Chart Symbology:		
		4037 red brown horizontal line patt fill
road - operational		exs=0or28or999
Full Chart Symbology:		4036 red brown solid fill
Lina		
Line		wat=2au2 ANDta=2au2au4
road - loose surface, fair/dry/winte	er	rst=2or3 AND wtc=2or3or4
Full Chart Symbology:	1314 black very thin s	olid line
road - non-operational, hard surfa	ce, national/state	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1
Full Chart Symbology:	1317 red brown doubl	e dash thin lines
road - non-operational, hard surfa	ce, no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1
Full Chart Symbology:	3021 red brown dashe	ed line
road - non-operational, hard surfa	ce	wtc=1 AND exs<>28 AND ltn<2 AND rst=1
Full Chart Symbology:	3028 red brown thin d	ash line
road - non-operational, loose surf	ace, no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3
Full Chart Symbology:	4319 brown dash line	
road - non-operational, loose surf	ace, with median	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3
Full Chart Symbology:	4321 brown double da	ash thin line
road - non-operational, loose surf	ace	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3
Full Chart Symbology:	1571 brown thin dash	line

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
road - operational - loose surface		wtc=1 AND exs=28 AND ltn<2 AND rst=2or3
Full Chart Symbology:	3012 brown thin solid line	
road - operational, hard surface, int	terstate/international	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1
Full Chart Symbology:	1316 red brown single lines	S
road - operational, hard surface, na	tional/state	wtc=1 AND exs=28 AND Itn>=2 AND med=1 AND rst=1
Full Chart Symbology:	1315 red brown double sol	id thin lines
road - operational, hard surface, pr	ivate/other	wtc=1 AND exs=28 AND ltn<2 AND rst=1
Full Chart Symbology:	1855 red brown thin solid li	ne
road - operational, loose surface, n	o median	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3
Full Chart Symbology:	3014 brown solid line	
road - operational, loose surface, w	vith median	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3
Full Chart Symbology:	4320 brown double solid th	in line
road - unknown surface and weath	erability	rst=0 OR wtc=0
Full Chart Symbology:	1314 black very thin solid I	ine
AP040		AP040
Point		
gate		
Full Chart Symbology: 2038 black dot w/ parallel lines inside circle		
AP050		AP050
Line		
trail		
Full Chart Symbology:	0656 gray very thin dash lii	ne

Point Symbology	Line Symbology	Area Symbology
AQ010		AQ010
Line		
aerial cableway lines/ski lift lines		
Full Chart Symbology:	OOF7 are think deal line	
	0657 gray thick dash line	
AQ040		AQ040
Area		
bridge/overpass/viaduct		
Full Chart Symbology:	1572 black thin solid dbl lines w/ flares on ea end	
Line		
bridge/overpass/viaduct		
Full Chart Symbology:	0751 black solid line w/ tick terminators	
Point		
bridge/overpass/viaduct		
Full Chart Symbology: 2083 black double line with flares on ends		
AQ060		AQ060
Point		
control tower		
Full Chart Symbology: 2088 purple dot inside cir		
AQ065		AQ065
Area		
culvert		
Full Chart Symbology:	0600 black very thin solid line	
Line		
culvert		
Full Chart Symbology:	1572 black thin solid dbl lines w/ flares on ea end	

UVMap

Point Symbology Line Symbology **Area Symbology AQ070** AQ070 Line ferry crossing **Full Chart Symbology:** 3115 black thin short dash line **Point** ferry crossing **Full Chart Symbology:** 1005 black F inside boat AQ090 **AQ090 Point** entrance/exit Full Chart Symbology: 2038 black dot w/ parallel lines inside circle **AQ110 AQ110 Point** mooring mast **Full Chart Symbology:** 2094 purple solid ellipse extending from pole **AQ113 AQ113** Line loc<>4 AND pro<>116 pipeline/pipe - on or above ground; not water Full Chart Symbology: 1305 brown dash thin line w/ dot pipeline/pipe - on or above ground; water loc<>4 AND pro=116 **Full Chart Symbology:** 1304 basic blue thin dash line w/ dot pipeline/pipe - undergound; water loc=4 AND pro=116 Full Chart Symbology: 1303 basic blue thin dash line w/ circle pipeline/pipe - underground; not water loc=4 AND pro<>116 **Full Chart Symbology:** 3022 brown thin dash line w/ open cir

Point Symbology	Line Symbology	Area Symbology	
AQ116			AQ116
Area			
pumping station			
Full Chart Symbology:	4262 purple thin dash line		
Point			
pumping station			
Full Chart Symbology: 2097 black sm square w/ P inside			
AQ125			AQ125
Area			
station (miscellaneous)			
Full Chart Symbology:		4156 black solid fill	
Point			
station (miscellaneous)			
Full Chart Symbology: 2099 black dot inside cir inside square			
AQ130			AQ130
Area			
tunnel			
Full Chart Symbology:	3112 black thin solid line		
Line			
tunnel			
Full Chart Symbology:	3141 black three dash one dot very thin line		
AQ140			AQ140
Area			
vehicle storage/parking area			
Full Chart Symbology:	4240 red solid thin line	1610 red left diag line patt fill	

Point Symbology	Line Symbology	Area Symbology	
AQ150			AQ150
Area			
flight of steps			
Full Chart Symbology:		0802 gray solid fill	
AT010			AT010
Area			
disk/dish			
Full Chart Symbology:		4089 magenta solid fill	
Point			
disk/dish			
Full Chart Symbology: 2102 black satellite dish symbol			
AT020			AT020
Area			
early warning radar site			
Full Chart Symbology:	1513 magenta jagged line		
Line			
early warning radar site			
Full Chart Symbology:	3064 magenta thin wavy solid line		
Point			
early warning radar site			
Full Chart Symbology: 2105 black cir around satellite dish symbol			
AT030			AT030
Line			
power transmission line			
Full Chart Symbology:	3074 purple thin solid line w/ dots on each sid	de	

UVMap

Point Symbology Line Symbology **Area Symbology** AT040 **AT040 Point** power transmission pylon **Full Chart Symbology:** 2104 purple tower symbol AT045 AT045 Area radar transmitter **Full Chart Symbology:** 1513 magenta jagged line Line radar transmitter Full Chart Symbology: 3061 magenta thin dotted line **Point** radar transmitter **Full Chart Symbology:** 2105 black cir around satellite dish symbol AT050 AT050 Area communication building **Full Chart Symbology:** 4089 magenta solid fill **Point** communication building **Full Chart Symbology:** 2106 black filled square w/ outward ticks AT060 **AT060** Line telephone line/telegraph line **Full Chart Symbology:** 3096 gray very rhin dash line w/ dot

Point Symbology	Line Symbology		Area Symbology	
AT070				AT070
Point				
telephone-telegraph pylon/pole				
Full Chart Symbology: 2107 black vert line w/ two horiz lines at top				
AT080				AT080
Point				
communication tower				
Full Chart Symbology: 2108 black tower w/ sound waves at top				
BA010				BA010
Line				
coastline/shoreline - mangrove, marsh		slt=6or8		
Full Chart Symbology:	3042 basic blue very thin sh	ort dash line		
coastline/shoreline - not mangrove or	marsh	slt<>6and<>8		
Full Chart Symbology:	0621 depth med blue very t	nin solid line		
BA020				BA020
Area				
foreshore				
Full Chart Symbology:			0803 yellow green solid fill	
BA030				BA030
Area				
island				
Full Chart Symbology:			0822 It brown solid fill	
BA040				BA040
Area				
water (except inland)				
Full Chart Symbology:			0821 depth It blue solid fill	
			•	

Point Symbology	Line Symbology	Area Symbology	
BA050			BA050
Area			
beach			
Full Chart Symbology:			
	4220 med-beige thin solid line	4005 beige stiple dot patt fill	
BB040			BB040
Area			
breakwater/groyne			
Full Chart Symbology:	0000 dla provide a all'allia a		
	0623 dk gray thin solid line		
Line			
breakwater/groyne			
Full Chart Symbology:	0000 dla provideira dell'allian		
	0623 dk gray thin solid line		
BB090			BB090
Area			
drydock			
Full Chart Symbology:			
	3112 black thin solid line		
BB140			BB140
Area			
jetty			
Full Chart Symbology:			
	0623 dk gray thin solid line		
Line			
jetty			
Full Chart Symbology:			
	0623 dk gray thin solid line		

Point Symbology	Line Symbology	Area Symbology
BB190		BB190
Area		
pier/wharf/quay		
Full Chart Symbology:	0625 dk gray thick solid line	
Line		
pier/wharf/quay		
Full Chart Symbology:	0625 dk gray thick solid line	
BB230		BB230
Line		
seawall		
Full Chart Symbology:	0623 dk gray thin solid line	
BB240		BB240
Line		
slipway/patent slip		
Full Chart Symbology:	0623 dk gray thin solid line	
BC050		BC050
Point		
lighthouse		
Full Chart Symbology: 2044 black lighthouse symbol		
BG010		BG010
Point		
current flow		
Full Chart Symbology: 1006 basic blue line w/ arrow		

Point Symbology	Line Symbology	Area Symbology
BH010		BH010
Line		
aqueduct - elevated	loc	=25
Full Chart Symbology:		
	4266 basic blue very thin solid lin	
aqueduct - not elevated	loc	:<>25
Full Chart Symbology:	3050 basic blue dashed line w/ c	ppen cirs
Point		
aqueduct		
Full Chart Symbology: 1007 basic blue cir		
BH015		BH015
Area		
bog		
Full Chart Symbology:		
chart cymreitigg.		4080 basic blue marsh/swamp patt fill
BH020		ВН020
Area		
canal - navigable; perennial	ex	s=32 AND hyc=8
Full Chart Symbology:		
		4138 med blue solid fill
canal - not navigable or not perennial	ex	s<>32 OR hyc<>8
Full Chart Symbology:	4265 basic blue thin solid line	1608 basic blue stipple dot patt fill
	1200 Badio Biad aliii dolla liilo	Tool Basic state stapping det part in
Line		_
canal - not perennial	hy	c<>8
Full Chart Symbology:	3167 depth pale blue thin short of	lash line
canal - perennial		c=8
Full Chart Symbology:		
	3108 depth pale blue thin solid li	ne

Point Symbology	Line Symbology	Area Symbology
BH030		ВН030
Area		
ditch		
Full Chart Symbology:		
		0821 depth It blue solid fill
Line		
ditch - intermittent	hyc=6	
Full Chart Symbology:	0669 depth med blue very thin dash line	
ditch - perennial, unknown	hyc=0or8	
Full Chart Symbology:	0621 depth med blue very thin solid line	
BH040		BH040
Area		
filtration beds/aeration beds		
Full Chart Symbology:		
	0600 black very thin solid line	4303 100% cyan blue rt diag line patt fill
BH050		BH050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:	3112 black thin solid line	4138 med blue solid fill
BH060		BH060
Line		211000
flume - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
flume - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	

Point Symbology	Line Symbology	Area Symbology
ВН070		BH070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point		
ford		
Full Chart Symbology: 2087 black opposing solid triangles pnting in		
BH075		BH075
Area		
fountain		
Full Chart Symbology:	4266 basic blue very thin solid line	1609 basic blue diag grid patt fill
Point		
fountain		
Full Chart Symbology: 2320 basic blue sm cir in cir w/4 squares outside		
BH077		BH077
Area		
hummock		
Full Chart Symbology:	1511 brown thin line outward ticks	
ВН080		ВН080
Area		
lake/pond - dry, intermittent	hyc=3or6	
Full Chart Symbology:	1655 basic blue thin dash line	1611 basic blue dot patt fill
lake/pond - perennial, unknown	hyc=0or8	
Full Chart Symbology:		4071 basic blue solid fill

Point Symbology	Line Symbology	Area Symbology
ВН090		ВН090
Area		
land subject to inundation		
Full Chart Symbology:		
		4078 basic blue inundation area patt fill
ВН095		BH095
Area		
marsh/swamp		
Full Chart Symbology:		
		4080 basic blue marsh/swamp patt fill
BH100		BH100
Area		
moat		
Full Chart Symbology:		
		4152 It blue solid fill
BH110		BH110
Line		
penstock - elevated	loc=25	
Full Chart Symbology:		
	3106 depth pale blue very thin solid line w/ ticks	
penstock - not elevated	loc<>25	
Full Chart Symbology:		
	3107 depth pale blue very thin solid line	
BH130		BH130
Area		
reservoir		
Full Chart Symbology:		
	0600 black very thin solid line	4138 med blue solid fill

Point Symbology	Line Symbology	Area Symbology
BH140		BH140
Area		
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	4079 100% cyan blue stipple dot patt fill
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	4154 31% cyan blue solid fill
Line		
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	
BH150		BH150
Area		
salt pan		
Full Chart Symbology:		0911 depth med blue grid patt fill
BH155		BH155
Area		
salt evaporator		
Full Chart Symbology:		0911 depth med blue grid patt fill
BH160		BH160
Area		
sebkha		
Full Chart Symbology:		4289 basic blue stipple dot patt fill

UVMap

Point Symbology Line Symbology **Area Symbology BH165 BH165** Area spillway **Full Chart Symbology:** 4145 depth pale blue Ift diag dash line patt fill Line spillway **Full Chart Symbology:** 3082 gray very thin solid line **Point** spillway Full Chart Symbology: 2234 basic blue cir diagly half filled **BH170 BH170 Point** spring/water-hole Full Chart Symbology: 1008 basic blue filled cir w/ tail below **BH210 BH210** Line inland shoreline - mangrove, marsh slt=6or8 **Full Chart Symbology:** 3042 basic blue very thin short dash line inland shoreline - unknown, rocky, rubble, sandy, stony, slt=0or10or11or13or14or15 other **Full Chart Symbology:** 0621 depth med blue very thin solid line **BI010 BI010 Point** cistern Full Chart Symbology: 1010 basic blue solid square

Point Symbology	Line Symbology	Area Symbology
BI020		BI020
Area		
dam/weir		
Full Chart Symbology:		4156 black solid fill
Line		
dam/weir		
Full Chart Symbology:	3113 black solid line	
BI030		BI030
Area		
lock		
Full Chart Symbology:	0600 black very thin solid line	0810 depth med blue solid fill
BI040		BI040
Line		
sluice gate		
Full Chart Symbology:	0623 dk gray thin solid line	
Point		
sluice gate		
Full Chart Symbology: 0025 traffic magenta lg cir, 2 horiz & 1 vert line		
BI050		BI050
Area		
water intake tower		
Full Chart Symbology:	0600 black very thin solid line	
Point		
water intake tower		
Full Chart Symbology: 0024 black dot inside cir		

UVMap

Point Symbology Line Symbology Area Symbology **CA010 CA010** Line contour line (land) - depression index mcc<>103 AND hgc=5 Full Chart Symbology: 1307 red brown vy thin line w/ ticks on inside contour line (land) - index approximate mcc<>103 AND hgc=7 **Full Chart Symbology:** 4306 red brown very thin long dash line contour line (land) - index mcc<>103 AND hqc=0or1 **Full Chart Symbology:** 3026 red brown solid line mcc<>103 AND hqc=12 contour line (land) - intermediate approximate Full Chart Symbology: 4307 red brown very very thin long dash line contour line (land) - intermediate depression mcc<>103 AND hqc=6 **Full Chart Symbology:** 4305 red brown very very thin line w/ tick marks contour line (land) - intermediate mcc<>103 AND hqc=2 Full Chart Symbology: 4304 red brown very very thin solid line contour line (land) - supplementary 1/2 mcc<>103 AND hgc=3 Full Chart Symbology: 1306 red brown very very thin dash line contour line (land) - supplementary 1/4 mcc<>103 AND hqc=14 Full Chart Symbology: 4308 red brown very very thin short dash line contour line (snow\ice) - index approximate mcc=103 AND hqc=7 Full Chart Symbology: 4316 100% cyan blue very thin long dash line contour line (snow\ice) - index depression mcc=103 AND hqc=5 Full Chart Symbology: 4314 100% cyan blue vy thin line w/ ticks on inside mcc=103 AND hqc=0or1 contour line (snow\ice) - index unknown Full Chart Symbology:

4311 100% cyan very thin blue solid line

UVMap

CA010 CA010

Area Symbology

CAUTO

contour line (snow\ice) - intermediate approximate mcc=103 AND hqc=12

Full Chart Symbology:

4317 100% cyan blue very very thin long dash

line

Line Symbology

contour line (snow\ice) - intermediate depression mcc=103 AND hqc=6

Full Chart Symbology:

Point Symbology

4315 100% cyan blue very very thin line w/

ticks

contour line (snow\ice) - intermediate mcc=103 AND hqc=2

Full Chart Symbology:

4312 100% cyan blue very very thin solid line

contour line (snow\ice) - supplementary 1/2 mcc=103 AND hqc=3

Full Chart Symbology:

4313 100% cyan blue very very thin dash line

contour line (snow\ice) - supplementary 1/4 mcc=103 AND hqc=14

Full Chart Symbology:

4318 100% cyan blue very very thin short dash

line

CA030 CA030

Point

spot elevation - accurate ela=1

Full Chart Symbology:

2243 black sm filled cir

spot elevation - not accurate ela<>1

Full Chart Symbology:

1011 black sm filled cir beside +-

DA005 DA005

Area

asphalt lake

Full Chart Symbology:

4124 depth gray land cover/ripple patt fill

Point Symbology	Line Symbology		Area Symbology	
DA010				DA010
Area				
ground surface element - boulders, gr	ravel, rock	mcc=46or84o	r8	
Full Chart Symbology:			4034 brown heavy mixed stipple dot pa	att fill
ground surface element - lava		mcc=52		
Full Chart Symbology:			4108 It gray land cover/ripple patt fill	
ground surface element - not rock, no	ot lava, not sand	mcc<>8and<>	52and<>46and<>84and<>88	
Full Chart Symbology:			4003 beige solid fill	
ground surface element - sand		mcc=88		
Full Chart Symbology:	4220 med-beige thin solid li	ne	4005 beige stiple dot patt fill	
DB010				DB010
Line				
bluff/cliff/escarpment				
Full Chart Symbology:	3146 black solid triangle line	e patt		
DB030				DB030
Area				
cave				
Full Chart Symbology:	3117 black thin dash line		4249 black x patt fill	
Point				
cave				
Full Chart Symbology: 2247 black diag line w/ "L" on top				
DB070				DB070
Line				
cut				
Full Chart Symbology:	1308 black very thin line w/	ticks		

UVMap

Point Symbology Line Symbology **Area Symbology DB090 DB090** Area embankment/fill Full Chart Symbology: 1516 black thin line outward ticks Line embankment/fill Full Chart Symbology: 1309 black double lines w/ ticks pointing out **DB110 DB110** Line fault Full Chart Symbology: 3026 red brown solid line

Point Symbology	Line Symbology	Area Symbology	
DB170			DB170
Area			
sand dune/sand hills - crescent	ssc=22		
Full Chart Symbology:		4009 beige sand dune crescent	
sand dune/sand hills - lateral	ssc=26		
Full Chart Symbology:		4010 beige sand dune lateral	
sand dune/sand hills - mounds	ssc=27		
Full Chart Symbology:		4011 beige sand dune mound	
sand dune/sand hills - ripple	ssc=28		
Full Chart Symbology:		4012 beige sand dune ripple	
sand dune/sand hills - star	ssc=29		
Full Chart Symbology:		4013 beige sand dune star	
sand dune/sand hills - transverse	ssc=30		
Full Chart Symbology:		4014 beige sand dune transverse	
sand dune/sand hills - unknown	ssc=0		
Full Chart Symbology:		4008 beige sand dune default	
DB200			DB200
Area			
gully/gorge			
Full Chart Symbology:		4027 brown wide left diag patt fill	
EA010			EA010
Area			
cropland			
Full Chart Symbology:		4067 yellow-green dot patt fill	

Point Symbology	Line Symbology	Area Symbology
EA020		EA020
Line		
hedgerow		
Full Chart Symbology:	3036 very dk green thin line w/rectangles one side	
EA030		EA030
Area		
nursery		
Full Chart Symbology:		4230 yellow-green squares in grid patt fill
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		4051 very dk green squares in grid patt fill
EA050		EA050
EA050 Area		EA050
		EA050
Area		EA050 4054 very dk green offset grid/dot patt fill
Area vineyards		
Area vineyards Full Chart Symbology:		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EA055		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EA055 Area		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EA055 Area hops		4054 very dk green offset grid/dot patt fill EA055
Area vineyards Full Chart Symbology: EA055 Area hops Full Chart Symbology:		4054 very dk green offset grid/dot patt fill EA055 4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EA055 Area hops Full Chart Symbology: EB010		4054 very dk green offset grid/dot patt fill EA055 4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EA055 Area hops Full Chart Symbology: EB010 Area		4054 very dk green offset grid/dot patt fill EA055 4054 very dk green offset grid/dot patt fill

EB020
patt fill
EC010
EC030
tt fill
e patt fill
EC040
EE000
patt fill

UVMap

Point Symbology Line Symbology **Area Symbology FA000 FA000** Line administrative boundary - city use=16 Full Chart Symbology: 1312 black very thin sht dash very sht dash line administrative boundary - international use=23 Full Chart Symbology: 1310 black one long dash two short dash line use=0or26or999 administrative boundary - primary, unknown, other Full Chart Symbology: 1311 black long dash short dash line **FA001 FA001** Area administrative area **Full Chart Symbology:** 0633 It gray thin dash line **FA015 FA015** Area firing range/gunnery range Full Chart Symbology: 4185 magenta thin short dash line Line firing range/gunnery range **Full Chart Symbology:** 3054 It magenta very thin short dash line **Point** firing range/gunnery range Full Chart Symbology: 2257 magenta square w/ F

UVMap

Point Symbology Line Symbology Area Symbology

FA020 FA020

Line

armistice line

Full Chart Symbology:

3119 black very thin long dash line

FA070 FA070

Area

demilitarized zone

Full Chart Symbology:

3143 black double dash very thin lines

GB005 GB005

Area

airport/airfield

Full Chart Symbology:
4183 magenta solid line

Point

airport/airfield - military; operational use=8or22 AND exs=28

Full Chart Symbology: 2269 magenta airplane

airport/airfield - non military; operational use<>8and<>22 AND exs=28

Full Chart Symbology: 2267 aero-blue airplane

airport/airfield - not operational exs<>28

Full Chart Symbology: 2268 It gray airplane

GB010 GB010

Point

airport lighting

Full Chart Symbology:

1012 aero blue solid filled star

Area Symbology

GB045

Line Symbology

UVMap

Point Symbology

GB015			GB015
Area			
apron/hardstand			
Full Chart Symbology:	4194 aero-blue very thin short dash line		
GB030			GB030
Area			
helicopter landing pad			
Full Chart Symbology:	3052 magenta thin solid line	1612 magenta cross hatch patt fill	
Point			
helicopter landing pad			
Full Chart Symbology: 1013 black "H" inside black square			
GB035			GB035
Area			
heliport			

GB045

Area

overrun/stopway

Full Chart Symbology:

Full Chart Symbology:

4098 purple wide rt diag line patt fill

4184 magenta very thin short dash line

Line

overrun/stopway

Full Chart Symbology:

3073 aero-blue thin short dash line

Point Symbology	Line Symbology	Area Symbology	
GB050		GB0	50
Area			
revetment (airfield)			
Full Chart Symbology:	1512 magenta vy thin line double ticks		
Line			
revetment (airfield)			
Full Chart Symbology:	1313 purple line w/ squares		
GB055		GB0	55
Area			
runway			
Full Chart Symbology:		4089 magenta solid fill	
Line			
runway			
Full Chart Symbology:	3069 aero-blue very thin solid line		
GB075		GB07	75
Area			
taxiway			
Full Chart Symbology:	3070 aero-blue thin solid line		
Line			
taxiway			
Full Chart Symbology:	3070 aero-blue thin solid line		
ZB020		ZB02	20
Point			
<mark>benchmark</mark>			
Full Chart Symbology: 2279 black triangle w/ dot inside			

Point Symbology	Line Symbology	Area Symbology	
ZB035			ZB035
Point			
control point/control station			
Full Chart Symbology:			
2279 black triangle w/ dot inside			

VITD

Line Symbology	Area Symbology	
	AL	_020
3112 black thin solid line		
	AL	_060
1301 black line w/ squares		
1301 black line w/ squares		
	AL	_195
	AL	_260
3113 black solid line		
	3112 black thin solid line 1301 black line w/ squares 1301 black line w/ squares	3112 black thin solid line All 1301 black line w/ squares 1301 black line w/ squares All

VITD

Line Symbology **Point Symbology** Area Symbology **AN010 AN010** Line railroad - definite, multi exs=0or1 AND fco<>0and<>3 **Full Chart Symbology:** 3127 black solid line w/ double tics both sides railroad - definite, unkn/single exs=0or1 AND fco=0or3 Full Chart Symbology: 3123 black solid line w/ single tics both sides railroad - dismantled, under construction exs<>0and<>1 Full Chart Symbology: 3131 black dash line w/ single tics both sides AN050 **AN050** Line railroad siding/railroad spur - dismantled, under exs<>0and<>1 construction Full Chart Symbology: 3135 black dash line w/ single tics alt sides exs=0or1 AND rrc=4 railroad siding/railroad spur - narrow, definite Full Chart Symbology: 3125 black solid line w/ single tics alt sides railroad siding/railroad spur - normal/broad, definite exs=0or1 AND rrc=0or1or5 **Full Chart Symbology:** 3123 black solid line w/ single tics both sides **AN060 AN060** Area railroad yard/marshalling yard Full Chart Symbology: 0802 gray solid fill Line railroad yard/marshalling yard Full Chart Symbology: 3123 black solid line w/ single tics both sides

Point Symbology	Line Symbology	Area Symbology
AP010		AP010
Line		
cart track		
Full Chart Symbology:		
	3116 black very thin dash line	

VITD

Point Symbology Line Symbology Area Symbology **AP030 AP030** Line road - loose surface, fair/dry/winter rst=2 AND wtc=2 Full Chart Symbology: 1314 black very thin solid line road - non-operational, hard surface, national/state wtc=1 AND exs<>1 AND fco=5or6 AND rst=1 **Full Chart Symbology:** 1317 red brown double dash thin lines wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=1 road - non-operational, hard surface Full Chart Symbology: 3028 red brown thin dash line wtc=1 AND exs<>1 AND fco=5or6 AND rst=2 road - non-operational, loose surface, with median Full Chart Symbology: 4321 brown double dash thin line road - non-operational, loose surface wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=2 **Full Chart Symbology:** 1571 brown thin dash line wtc=1 AND exs=1 AND fco<>5and<>6 AND rst=2 road - operational - loose surface Full Chart Symbology: 3012 brown thin solid line road - operational, hard surface, national/state wtc=1 AND exs=1 AND fco=5or6 AND rst=1 Full Chart Symbology: 1315 red brown double solid thin lines wtc=1 AND exs=1 AND fco<>5and<>6 AND rst=1 road - operational, hard surface, private/other Full Chart Symbology: 1855 red brown thin solid line road - operational, loose surface, median wtc=1 AND exs=1 AND fco=5or6 AND rst=2 Full Chart Symbology: 4320 brown double solid thin line rst=0 OR wtc=0 road - unknown surface and weatherability **Full Chart Symbology:** 1314 black very thin solid line

Area Symbology

Line Symbology

VITD

Point Symbology

AQ040 AQ040 Line bridge/overpass/viaduct **Full Chart Symbology:** 0751 black solid line w/ tick terminators **Point** bridge/overpass/viaduct Full Chart Symbology: 2083 black double line with flares on ends AQ045 **AQ045 Point** bridge span Full Chart Symbology: 2083 black double line with flares on ends

AQ058 AQ058

Point

constriction/expansion wd1<40

Full Chart Symbology:

2087 black opposing solid triangles pnting in

constriction/expansion wd1=40

Full Chart Symbology:

1171 black opposing open equi triangles

AQ070 AQ070

Line

ferry crossing

Full Chart Symbology:

3115 black thin short dash line

Point

ferry crossing

Full Chart Symbology:

1005 black F inside boat

VITD

Point Symbology Line Symbology **Area Symbology AQ111 AQ111** Line prepared raft or float bridge site **Full Chart Symbology:** 3115 black thin short dash line **Point** prepared raft or float bridge site Full Chart Symbology: 1171 black opposing open equi triangles **AQ113 AQ113** Line pipeline/pipe Full Chart Symbology: 1305 brown dash thin line w/ dot **AQ118 AQ118 Point** sharp curve(s) **Full Chart Symbology:** 1172 black diamond w/ curve staffed arrow **AQ130 AQ130** Line tunnel Full Chart Symbology: 3141 black three dash one dot very thin line **Point** tunnel Full Chart Symbology: 2100 black box w/ round top w/ "T" inside **BA030 BA030** Area island **Full Chart Symbology:** 4236 beige solid line

Point Symbology	Line Symbology	Area Symbology
BH020		BH020
Area		
canal - not perennial	hyc<>8	
Full Chart Symbology:	4265 basic blue thin solid line	1608 basic blue stipple dot patt fill
canal - perennial	hyc=8	
Full Chart Symbology:	4265 basic blue thin solid line	
Line		
canal		
Full Chart Symbology:	3108 depth pale blue thin solid line	
BH070		BH070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point		
ford		
Full Chart Symbology: 2087 black opposing solid triangles pnting in		
ВН090		ВН090
Area		
land subject to inundation		
Full Chart Symbology:	3118 black dash line	
BH095		ВН095
Area		
marsh/swamp		
Full Chart Symbology:		4080 basic blue marsh/swamp patt fill

VITD

Point Symbology Line Symbology Area Symbology **BH100 BH100** Line moat **Full Chart Symbology:** 3142 black parallel vy thin lines w/ tics (ladder patt) **BH135 BH135** Area rice field **Full Chart Symbology:** 4085 basic blue rice patt fill **BH140 BH140** Area river/stream - dry, intermittent hyc=3or6 Full Chart Symbology: 4182 100% cyan blue very thin short dash line 4079 100% cyan blue stipple dot patt fill river/stream - perennial, braided, unknown hyc=0or8or14 **Full Chart Symbology:** 1656 100% cyan blue very thin solid line 4154 31% cyan blue solid fill Line river/stream - dry, intermittent hyc=3or6

river/stream - dry, intermittent hyc=3or6 Full Chart Symbology: 4182 100% cyan blue very thin short dash line river/stream - perennial, braided, unknownn hyc=0or8or14

Full Chart Symbology:

1656 100% cyan blue very thin solid line

Point Symbology	Line Symbology	Area Symbology
BI020		BI020
Line		
dam/weir		
Full Chart Symbology:		
	3113 black solid line	
Point		
dam/weir		
Full Chart Symbology: 2238 black vertical heavy weight line		
BI030		BI030
Line		
lock		
Full Chart Symbology:		
	3194 nav orange very thin s	solid line
Point		
lock		
Full Chart Symbology:		
2239 black open arrowhead		
DA010		DA010
Area		
ground surface element - gravels		stp=1or2or3or4
Full Chart Symbology:	4050 1 : 41: 1 1 1:	
	4259 beige thin dash line	
ground surface element - sands		stp=5or6or7or8or9
Full Chart Symbology:	1851 beige thin short dash	line
ground surface element - silts, clays,	evaporites, other	stp<>1and<>2and<>3and<>4and<>5and<>6and<>7and<>8and<>9
Full Chart Symbology:	4236 beige solid line	

Point Symbology	Line Symbology	Area Symbology
DA020		DA020
Area		
barren ground		
Full Chart Symbology:	4201 depth gray thin dash line	
DB010		DB010
Line		
bluff/cliff/escarpment		
Full Chart Symbology:	3146 black solid triangle line patt	
DB070		DB070
Line		
cut		
Full Chart Symbology:	1308 black very thin line w/ ticks	
DB080		DB080
Area		
depression		
Full Chart Symbology:	1509 black thin solid line ticks on inside	
DB090		DB090
Line		
embankment/fill		
Full Chart Symbology:	1309 black double lines w/ ticks pointing out	
DB190		DB190
Line		
volcanic dike		
Full Chart Symbology:	3112 black thin solid line	

Area gully/gorge Full Chart Symbology: 1406 brown thin solid line Line gully/gorge Full Chart Symbology: 1406 brown thin solid line	3200
gully/gorge Full Chart Symbology: 1406 brown thin solid line Line gully/gorge Full Chart Symbology:	
Full Chart Symbology: 1406 brown thin solid line Line gully/gorge Full Chart Symbology:	
Line gully/gorge Full Chart Symbology:	
gully/gorge Full Chart Symbology:	
Full Chart Symbology:	
1400 DIOWIT WITH SOILD THE	
EA010	4010
Area	
cropland	
Full Chart Symbology: 4067 yellow-green dot patt fill	
EA020 EA	4020
Line	
hedgerow	
Full Chart Symbology: 3036 very dk green thin line w/rectangles one side	
EA040	4040
Area	
orchard/plantation	
Full Chart Symbology: 4051 very dk green squares in grid patt fil	II
EA050	4050
Area	
vineyards	
Full Chart Symbology: 4054 very dk green offset grid/dot patt fill	

Point Symbology	Line Symbology	Area Symbology
EB010		EB010
Area		
grassland		
Full Chart Symbology:		4068 yellow-green grass patt fill
EB020		EB020
Area		
scrub/brush		
Full Chart Symbology:		4063 yellow-green stipple dot patt fill
EC010		EC010
Area		
bamboo/cane		
Full Chart Symbology:		4052 green bamboo patt fill
EC030		EC030
Area		
trees - evergreen	veg=25	
Full Chart Symbology:		1606 yellow-green triangle tree patt fill
trees - forest clearing	veg=52	
Full Chart Symbology:		0822 It brown solid fill
trees - unknown, deciduous, mixed	veg=0or24or5	50
Full Chart Symbology:		1605 yellow-green tree-top patt fill

Point Symbology	Line Symbology	Area Symbology
GB055		GB055
Area		
runway		
Full Chart Symbology:	3070 aero-blue thin solid line	
	3070 deto-blue tilli Solid lille	
Line		
runway		
Full Chart Symbology:	3069 aero-blue very thin solid line	
SA010		SA010
Area		
common open water		
Full Chart Symbology:	4265 basic blue thin solid line	
SA020		SA020
Area		
disturbed soil		
Full Chart Symbology:	4203 depth gray line w/ two dashes	S
SA030		SA030
Area		
exposed bedrock		
Full Chart Symbology:	4202 depth gray thin dotted line	
SA040		SA040
Area		
permanent snowfield		
Full Chart Symbology:	1655 basic blue thin dash line	

Point Symbology	Line Symbology	Area Symbology	
SA050		SAC)50
Area			
slope polygon - % unknown	gsc=0		
Full Chart Symbology:		4005 hasis white solid 60	
		1905 basic white solid fill	
slope polygon - <= 3%	gsc=2		
Full Chart Symbology:		4002 It beige solid fill	
slope polygon - > 10% and <= 20%	gsc=4		
Full Chart Symbology:		1901 ui lt brown solid fill	
slope polygon - > 20% and <= 30%	gsc=5		
Full Chart Symbology:			
Tuli Ghart Symbology.		1903 rose solid fill	
slope polygon - > 3% and <= 10%	gsc=3		
Full Chart Symbology:		4003 beige solid fill	
slope polygon - > 30% and <= 45%	gsc=6	·	
Full Chart Symbology:			
		1904 golden yellow solid fill	
slope polygon - > 45%	gsc=7		
Full Chart Symbology:		4175 It orange solid fill	
slope polygon - 0 to >45%, dissected	gsc=1		
Full Chart Symbology:		0002 vallow groop colid fill	
		0803 yellow green solid fill	
SA060		SAC	060
Line			
covered drainage			
Full Chart Symbology:	3117 black thin dash line		
	OTTE DIGON UNIT GOSTI IIIIC		

VMap Level 0

2002 black tower

Point Symbology	Line Symbology	Area Symbology	
AA010			AA010
Area			
mine/quarry			
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line		
Point			
mine/quarry			
Full Chart Symbology: 2001 black pick & hammer			
AA050			AA050
Point			
well			
Full Chart Symbology: 0078 black sm cir			
AA052			AA052
Area			
oil/gas field			
Full Chart Symbology:	0604 feature brown very thin solid line	0804 brown solid fill	
Point			
oil/gas field			
Full Chart Symbology: 2002 black tower			
AC000			AC000
Point			
processing plant/treatment plant			
Full Chart Symbology: 2005 black building w/ 2 smokestacks above			
AC040			AC040
Point			
oil/gas facilities			
Full Chart Symbology:			

VMap Level 0

Point Symbology Line Symbology Area Symbology **AD010 AD010 Point** power plant Full Chart Symbology: 2009 black square w/ zap inside **AD030 AD030 Point** substation/transformer yard Full Chart Symbology: 2011 black filled square w/ zap on top A1030 AI030 **Point** camp **Full Chart Symbology:** 2026 black tent **AK040 AK040** Area athletic field Full Chart Symbology: 4279 nav orange thin short dash line **AK130 AK130** Area race track **Full Chart Symbology:** 3113 black solid line **AK160 AK160 Point** stadium/amphitheater Full Chart Symbology: 2035 black dot inside cir

VMap Level 0

2063 black monument symbol

Point Symbology Line Symbology Area Symbology **AL015 AL015 Point** building Full Chart Symbology: 2036 black sm filled square **AL020 AL020** Area built-up area **Full Chart Symbology:** 4128 yellow solid fill **Point** built-up area Full Chart Symbology: 2053 black sm open square w/ dot in center **AL025 AL025 Point** cairn **Full Chart Symbology:** 0017 black three stacked sm cirs **AL105 AL105 Point** settlement Full Chart Symbology: 2060 black square w/ S inside **AL130 AL130 Point** monument Full Chart Symbology:

Point Symbology	Line Symbology	Area Symbology	
AL135			AL135
Area			
native settlement			
Full Chart Symbology:			
		0802 gray solid fill	
Point			
native settlement			
Full Chart Symbology: 2060 black square w/ S inside			
AL200			AL200
Point			
ruins			
Full Chart Symbology: 0002 feature brown filled square w/ black outline			
AL210			AL210
Line			
snow shed/rock shed			
Full Chart Symbology:	3146 black solid triangle line patt		
Point			
snow shed/rock shed			
Full Chart Symbology: 2070 black diag bands in rectangle			
AL240			AL240
Point			
tower (non-communication)			
Full Chart Symbology: 2071 black dot inside cir			
207 I black dot iliside til			

VMap Level 0

2078 basic blue dot inside cir

Point Symbology Line Symbology Area Symbology **AL260 AL260** Line wall Full Chart Symbology: 3113 black solid line **Point** wall Full Chart Symbology: 2323 black dot **AM010 AM010 Point** depot (storage) Full Chart Symbology: 2073 black square w/ diag line inside **AM070 AM070 Point** tank **Full Chart Symbology:** 2019 black sm filled cir **AM080 AM080 Point** water tower **Full Chart Symbology:**

Point Symbology	Line Symbology	Area Symbology	
AN010			AN010
Line			
railroad -non-op, multi		exs<>28 AND fco<>0and<>3	
Full Chart Symbology:	3133 black dash line w/ dou	ble tics both sides	
railroad -non-op, unkn/single		exs<>28 AND fco=0or3	
Full Chart Symbology:	3131 black dash line w/ sing	le tics both sides	
railroad -op, unkn/single		exs=28 AND fco=0or3	
Full Chart Symbology:	3123 black solid line w/ sing	le tics both sides	
railroad -op,multi		exs=28 AND fco<>0and<>3	
Full Chart Symbology:	3127 black solid line w/ dou	ble tics both sides	
AN060			AN060
Point			
railroad yard/marshalling yard			
Full Chart Symbology: 2036 black sm filled square			
AP030			AP030
Line			
road - non-operational, with median		exs<>28 AND med=1	
Full Chart Symbology:	1317 red brown double dasl	n thin lines	
road - non-operational		exs<>28 AND med<>1	
Full Chart Symbology:	3028 red brown thin dash lir	ne	
road - operational, with median		exs=28 AND med=1	
Full Chart Symbology:	1315 red brown double solic	I thin lines	
road - operational		exs=28 AND med<>1	
Full Chart Symbology:	1855 red brown thin solid lin	е	

VMap Level 0

Point Symbology Line Symbology Area Symbology

AP050

Line

trail

Full Chart Symbology:

AQ010 AQ010

0656 gray very thin dash line

0657 gray thick dash line

Line

aerial cableway lines/ski lift lines

Full Chart Symbology:

AQ040 AQ040

Line

bridge/overpass/viaduct

Full Chart Symbology:

0751 black solid line w/ tick terminators

Point

bridge/overpass/viaduct

Full Chart Symbology:

2083 black double line with flares on ends

AQ064 AQ064

Line

causeway

Full Chart Symbology:

3142 black parallel vy thin lines w/ tics (ladder patt)

Point

causeway

Full Chart Symbology:

2089 black cir w/ four outer tics and dot inside

VMap Level 0

Point Symbology Line Symbology Area Symbology **AQ070 AQ070** Line ferry crossing **Full Chart Symbology:** 3115 black thin short dash line **Point** ferry crossing **Full Chart Symbology:** 1005 black F inside boat **AQ113 AQ113** Line pipeline/pipe - on ground loc=8 Full Chart Symbology: 1305 brown dash thin line w/ dot pipeline/pipe - underground loc=4 Full Chart Symbology: 3022 brown thin dash line w/ open cir **AQ116 AQ116 Point** pumping station Full Chart Symbology: 2097 black sm square w/ P inside **AQ130 AQ130** Line tunnel **Full Chart Symbology:** 3141 black three dash one dot very thin line **Point** tunnel Full Chart Symbology: 2100 black box w/ round top w/ "T" inside

Point Symbology	Line Symbology	Area Symbology
AT030		AT030
Line		
power transmission line		
Full Chart Symbology:	0074	
	3074 purple thin solid line w/ dots on each side	
AT050		AT050
Point		
communication building		
Full Chart Symbology: 2106 black filled square w/ outward ticks		
AT060		AT060
Line		
telephone line/telegraph line		
Full Chart Symbology:		
	3096 gray very rhin dash line w/ dot	
AT080		AT080
Point		
communication tower		
Full Chart Symbology: 2108 black tower w/ sound waves at top		
BA010		BA010
Line		
coastline/shoreline		
Full Chart Symbology:		
	0621 depth med blue very thin solid line	
BA030		BA030
Point		
island		
Full Chart Symbology:		
2111 brown filled cir		

Point Symbology	Line Symbology	Area Symbology	
BA040			BA040
Area			
water (except inland)			
Full Chart Symbology:		0821 depth It blue solid fill	
BB040			BB040
Line			
breakwater/groyne			
Full Chart Symbology:	0623 dk gray thin solid line		
BB190			BB190
Line			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
BB230			BB230
Line			
seawall			
Full Chart Symbology:	0623 dk gray thin solid line		
BC050			BC050
Point			
lighthouse			
Full Chart Symbology: 2044 black lighthouse symbol			
BD000			BD000
Line			
underwater danger/hazard			
Full Chart Symbology:	3139 black very thin dotted line		

VMap Level 0

Point Symbology Line Symbology Area Symbology **BD120 BD120** Line reef **Full Chart Symbology:** 3186 black jagged line **BD130 BD130 Point** rock **Full Chart Symbology:** 0063 black 6 point asterisk **BD180 BD180 Point** wreck Full Chart Symbology: 2212 black solid filled shipwreck symbol **BE015 BE015** Line depth contour Full Chart Symbology: 3082 gray very thin solid line **BH000 BH000** Area inland water **Full Chart Symbology:** 4152 It blue solid fill Line inland water **Full Chart Symbology:** 0621 depth med blue very thin solid line

_		
Point Symbology	Line Symbology	Area Symbology
BH015		BH015
Area		
bog		
Full Chart Symbology:		
		4080 basic blue marsh/swamp patt fill
BH050		BH050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:		
	3112 black thin solid line	4138 med blue solid fill
BH070		ВН070
Line		
ford		
Full Chart Symbology:		
	3114 black very thin short dash line	
Point		
ford		
Full Chart Symbology:		
2087 black opposing solid triangles pnting in		
BH077		BH077
Area		
hummock		
Full Chart Symbology:		
	1511 brown thin line outward ticks	
ВН090		ВН090
Area		
land subject to inundation		
Full Chart Symbology:		
		4078 basic blue inundation area patt fill

Point Symbology	Line Symbology	Area Symbology	
ВН095			BH095
Area			
marsh/swamp			
Full Chart Symbology:			
		4080 basic blue marsh/swamp patt fil	<u> </u>
BH120			BH120
Point			
<mark>rapids </mark>			
Full Chart Symbology: 2231 basic blue open diamond			
BH135			BH135
Area			
rice field			
Full Chart Symbology:		4085 basic blue rice patt fill	
BH140		·	BH140
			БП140
Line	h.va=2a=6		
river/stream - dry, intermittent	hyc=3or6		
Full Chart Symbology:	4182 100% cyan blue very thin short dash line		
river/stream - perennial, unknown	hyc=0or8		
Full Chart Symbology:	1656 100% cyan blue very thin solid line		
BH155			BH155
Area			
salt evaporator			
Full Chart Symbology:			
		0911 depth med blue grid patt fill	
Point			
salt evaporator			
Full Chart Symbology: 2233 basic blue square w/ grid inside			

VMap Level 0

Point Symbology Line Symbology Area Symbology

BH170

BH170

Point

spring/water-hole

Full Chart Symbology:

1008 basic blue filled cir w/ tail below

BH180 BH180

Point

waterfall

Full Chart Symbology:

1009 basic blue filled diamond

BI020 BI020

Line

dam/weir

Full Chart Symbology:

3113 black solid line

Point

dam/weir

Full Chart Symbology:

2238 black vertical heavy weight line

BI030

Point

lock

Full Chart Symbology:

2239 black open arrowhead

BI040 BI040

Point

sluice gate

Full Chart Symbology:

0025 traffic magenta lg cir, 2 horiz & 1 vert line

Point Symbology	Line Symbology	Area Symbology	
BJ040			BJ040
Line			
ice cliff			
Full Chart Symbology:	3047 basic blue thin long dash line		
BJ065			BJ065
Area			
ice shelf			
Full Chart Symbology:		4151 basic blue ripple jagged patt fill	
BJ070			BJ070
Area			
pack ice			
Full Chart Symbology:		4151 basic blue ripple jagged patt fill	
BJ080			BJ080
Area			
polar ice			
Full Chart Symbology:		4289 basic blue stipple dot patt fill	
Full Chart Symbology:		4289 basic blue stipple dot patt fill	BJ100
		4289 basic blue stipple dot patt fill	BJ100
BJ100		4289 basic blue stipple dot patt fill	BJ100
BJ100 Area	4180 depth pale blue very thin short dash line	4289 basic blue stipple dot patt fill	BJ100
BJ100 Area snow field/ice field Full Chart Symbology:	4180 depth pale blue very thin short dash line	4289 basic blue stipple dot patt fill	BJ100
BJ100 Area snow field/ice field Full Chart Symbology: BJ110	4180 depth pale blue very thin short dash line	4289 basic blue stipple dot patt fill	
BJ100 Area snow field/ice field Full Chart Symbology:	4180 depth pale blue very thin short dash line	4289 basic blue stipple dot patt fill	
BJ100 Area snow field/ice field Full Chart Symbology: BJ110 Area	4180 depth pale blue very thin short dash line	4289 basic blue stipple dot patt fill 4066 yellow-green variated stipple do	BJ110

Point Symbology	Line Symbology		Area Symbology	
CA010				CA010
Line				
contour line (land) - carrying contour	(coincident)	hqc=19		
Full Chart Symbology:				
	3026 red brown solid line			
contour line (land) - depression intern	nediate	hqc=6		
Full Chart Symbology:	4305 red brown very very th	nin line w/ tick marks		
contour line (land) - intermediate appr	oximate	hqc=12		
Full Chart Symbology:	4307 red brown very very th	nin long dash line		
contour line (land) - intermediate depr	ession approx	hqc=18		
Full Chart Symbology:	4309 red brown vy vy thin lo	ong dash line w/		
contour line (land) - intermediate unkr	nown	hqc=0or2		
Full Chart Symbology:	4304 red brown very very th	nin solid line		
contour line (land) - supplemental dep	ression	hqc=22or23		
Full Chart Symbology:	4310 red brown very vy thin marks	ı dash line w/ tick		
contour line (land) - supplementary ap	prox., carrying, form	hqc=4or13or2	0or21	
Full Chart Symbology:	1306 red brown very very th	nin dash line		
CA030				CA030
Point				
spot elevation - accurate		ela=1		
Full Chart Symbology: 2243 black sm filled cir				
spot elevation - not accurate		ela<>1		
Full Chart Symbology: 1011 black sm filled cir beside +-				

Point Symbology	Line Symbology		Area Symbology	
CA035				CA035
Point				
inland water elevation				
Full Chart Symbology: 2245 basic blue sm filled cir				
DA010				DA010
Area				
ground surface element - lava		smc=52		
Full Chart Symbology:			4108 It gray land cover/ripple patt fill	
ground surface element - not lava, no	t sand	smc<>52and<	>88	
Full Chart Symbology:			4003 beige solid fill	
ground surface element - sand		smc=88		
Full Chart Symbology:	4220 med-beige thin solid lir	ne	4005 beige stiple dot patt fill	
DB010				DB010
Line				
bluff/cliff/escarpment				
Full Chart Symbology:	3146 black solid triangle line	e patt		
DB080				DB080
Line				
depression				
Full Chart Symbology:	1308 black very thin line w/ t	ticks		
DB090				DB090
Line				
embankment/fill				
Full Chart Symbology:	1309 black double lines w/ ti	cks pointing out		

Point Symbology	Line Symbology	Area Symbology
DB110		DB110
Line		
fault		
Full Chart Symbology:		
	3026 red brown solid line	
DB160		DB160
Line		
rock strata/rock formation		
Full Chart Symbology:	3017 brown thin dash line	
EA010		EA010
Area		
cropland		
Full Chart Symbology:		
		4067 yellow-green dot patt fill
EA020		EA020
Line		
hedgerow		
Full Chart Symbology:		
	3036 very dk green thin line w/rectangles one side	
EA030		EA030
Area		
nursery		
Full Chart Symbology:		4230 yellow-green squares in grid patt fill
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		
		4051 very dk green squares in grid patt fill

Line Symbology	Area Symbology	
	E	A050
	4054 very dk green offset grid/dot patt fil	II
	E	B010
	4068 yellow-green grass patt fill	
	E	B020
	4063 yellow-green stipple dot patt fill	
	E	C010
	4052 green bamboo patt fill	
	E	C020
	4170 It blue mixed stipple dot patt fill	
	Line Symbology	4054 very dk green offset grid/dot patt fi 4068 yellow-green grass patt fill 4063 yellow-green stipple dot patt fill 4052 green bamboo patt fill

VMap Level 0

Point Symbology Line Symbology Area Symbology EC030 EC030 Area trees - casuarina, coniferous, palm, filao, evergreen, veg=11or12or17or18or25or29or38 eucalyptus, cypress **Full Chart Symbology:** 1606 yellow-green triangle tree patt fill trees - nipa palm, mangrove veg=16or19 Full Chart Symbology: 1655 basic blue thin dash line 1613 yellow-green nipa patt fill trees - unknown, deciduous, mixed, other veg=0or24or50or999 **Full Chart Symbology:** 1605 yellow-green tree-top patt fill **EC040 EC040** Line cleared way/cut line/firebreak Full Chart Symbology: 3076 It gray thin solid line **FA000 FA000** Line administrative boundary - international use=23 **Full Chart Symbology:** 1310 black one long dash two short dash line administrative boundary - primary use=26 **Full Chart Symbology:** 1311 black long dash short dash line **FA001 FA001** Area administrative area **Full Chart Symbology:** 0633 It gray thin dash line **Point** administrative area Full Chart Symbology: 2256 black/white divided square

Point Symbology	Line Symbology	Area Symbology
FA020		FA020
Line		
armistice line		
Full Chart Symbology:	3119 black very thin long dash line	
FA030		FA030
Line		
cease-fire line		
Full Chart Symbology:	3119 black very thin long dash line	
FA040		FA040
Line		
claim line		
Full Chart Symbology:	3120 black thin long dash line	
FA050		FA050
Line		
mandate line/convention line		
Full Chart Symbology:	3118 black dash line	
FA060		FA060
Line		
defacto boundary		
Full Chart Symbology:	1310 black one long dash two short dash line	
FA070		FA070
Area		
demilitarized zone		
Full Chart Symbology:	3143 black double dash very thin lines	
	•	

Point Symbology	Line Symbology	Area Symbology
FA110		FA110
Line		
international date line		
Full Chart Symbology:		
	3119 black very thin long dash line	
FA170		FA170
Area		
zone of occupation		
Full Chart Symbology:	3118 black dash line	
GB005		GB005
Point		
airport/airfield - military	use=8or22	
Full Chart Symbology: 2269 magenta airplane		
airport/airfield - non military	use<>8and<>2	22
Full Chart Symbology: 2267 aero-blue airplane		
SU001		SU001
Area		
military base		
Full Chart Symbology:	3104 red solid line	
Point		
military base		
Full Chart Symbology: 2274 magenta M inside cir		
ZD020		ZD020
Area		
void collection area		
Full Chart Symbology:	3082 gray very thin solid line	4105 It gray rt diag thin line patt fill

VMap Level 1

Point Symbology	Line Symbology	Area Symbology
AA010		AA010
Area		
mine/quarry		
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line	
Point		
mine/quarry		
Full Chart Symbology: 2001 black pick & hammer		
AA040		AA04
Point		
rig/superstructure		
Full Chart Symbology: 2002 black tower		
AA050		AA05
Point		
well - not water	pr	ro<>116
Full Chart Symbology: 0078 black sm cir		
well - water	pr	ro=116
Full Chart Symbology: 2003 basic blue solid filled cir		
AB000		AB00
Area		
disposal site/waste pile		
Full Chart Symbology:		

0822 It brown solid fill

VMap Level 1

VMap Level 1		
Point Symbology	Line Symbology	Area Symbology
AC000		AC000
Area		
processing plant/treatment plant		
Full Chart Symbology:	0004 feeting become another death line	
	0624 feature brown very thin dash line	
Point		
processing plant/treatment plant		
Full Chart Symbology: 2005 black building w/ 2 smokestacks above		
AC030		AC030
Area		
settling basin/sludge pond		
Full Chart Symbology:	0600 black very thin solid line	4077 depth med blue narrow rt diag line patt fill
AD010		AD010
Area		1.0.1
power plant		
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill
Point	Social place very tilling solid line	COCH DIOWIT COILCI IIII
power plant		
Full Chart Symbology:		
2009 black square w/ zap inside		
AF010		AF010
Point		
chimney/smokestack		
Full Chart Symbology: 0003 black chimney symbol		
AF020		AF020
Line		
conveyor		
Full Chart Symbology:		

3086 gray very thin short dash line

Area Symbology

Line Symbology

VMap Level 1

Point Symbology

AF030 AF030 Point cooling tower **Full Chart Symbology:** 2016 black dot inside double cir **AF040 AF040 Point** crane **Full Chart Symbology:** 0005 feature brown crane symbol **AF070 AF070 Point** flare pipe Full Chart Symbology: 0006 black flare stack symbol AH050 AH050 Area fortification

Full Chart Symbology:

4186 magenta thin dash line

Point

fortification

Full Chart Symbology:

2043 black four black squares w/ connection

AJ050 AJ050

Point

windmill

Full Chart Symbology:

0008 black sm cir w/ X on top

Point Symbology	Line Symbology	Area Symbology	
AK020			AK020
Point			
amusement park attraction			
Full Chart Symbology: 2029 black ferris wheel			
AK120			AK120
Area			
park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK130			AK130
Line			
race track			
Full Chart Symbology:	3113 black solid line		
AK150			AK150
Point			
ski jump			
Full Chart Symbology: 2034 black skier			
AK160			AK160
Point			
stadium/amphitheater			
Full Chart Symbology: 2035 black dot inside cir			

Point Symbology	Line Symbology	Area Symbology	
AL015			AL015
Area			
building - generic		bfc<>7and<>15	
Full Chart Symbology:		4450 11 1 1150	
Later to the same of the same by		4156 black solid fill	
building - house of worship		bfc=7	
Full Chart Symbology:		4002 It beige solid fill	
building - school		bfc=15	
Full Chart Symbology:		4025 feature brown solid fill	
Point			
building - generic		bfc=0or1or4or9or10or11or16or17or18or19or23or24or27or83or999	or20or22
Full Chart Symbology: 2036 black sm filled square			
building - government		bfc=2or3or5or12or13or14	
Full Chart Symbology: 1001 red filled square black outline			
building - house of worship		bfc=7 AND hwt=0or2or3or4or7	
Full Chart Symbology: 2045 black filled square w/ cross on top			
building - house of worship		bfc=7 AND hwt=11or14or15or16	
Full Chart Symbology: 0011 black X inscribed in rectangle			
building - house of worship		bfc=7 AND hwt=20	
Full Chart Symbology: 2047 black filled square w/ T on top			
building - house of worship		bfc=7 AND hwt=21	
Full Chart Symbology: 2048 black pinwheel			
building - house of worship		bfc=7 AND hwt=5or6or9	
Full Chart Symbology: 0012 black mosque/minaret w/ dot in circle			

Point Symbology	Line Symbology	Area Symbology
AL015		AL015
building - lighthouse	bfc=82	
Full Chart Symbology: 2044 black lighthouse symbol		
building - school	bfc=15	
Full Chart Symbology: 2042 black filled square w/ flag on top		
AL020		AL020
Area		
built-up area		
Full Chart Symbology:		4128 yellow solid fill
Point		
built-up area		
Full Chart Symbology: 2053 black sm open square w/ dot in center		
AL025		AL025
Point		
cairn		
Full Chart Symbology: 0017 black three stacked sm cirs		
AL070		AL070
Line		
fence		
Full Chart Symbology:	0440 block with the control	
	3148 black patt line -x -x -x	
AL100		AL100
Point		
hut		
Full Chart Symbology: 2058 gray filled square		

Point Symbology	Line Symbology	Area Symbology	
AL105			AL105
Area			
settlement			
Full Chart Symbology:		0802 gray solid fill	
		0002 gray solid iiii	
AL130			AL130
Point			
monument			
Full Chart Symbology: 2063 black monument symbol			
AL135			AL135
Area			
native settlement			
Full Chart Symbology:			
		0802 gray solid fill	
AL140			AL140
Point			
particle accelerator			
Full Chart Symbology: 0014 black filled diamond cntred on horizontal line			
AL200			AL200
Area			
ruins			
Full Chart Symbology:			
	3114 black very thin short dash line		
Point			
ruins			
Full Chart Symbology: 0002 feature brown filled square w/ black outline			

Point Symbology	Line Symbology	Area Symbology
AL210		AL210
Line		
snow shed/rock shed		
Full Chart Symbology:		
	3146 black solid triangle line patt	
Point		
snow shed/rock shed		
Full Chart Symbology: 2070 black diag bands in rectangle		
AL240		AL240
Point		
tower (non-communication)		
Full Chart Symbology: 2071 black dot inside cir		
AL260		AL260
Line		
wall		
Full Chart Symbology:	3113 black solid line	
AM020		AM020
Point		
grain bin/silo		
Full Chart Symbology: 2074 brown cir		
AM030		AM030
Point		
grain elevator		
Full Chart Symbology: 0004 black tower symbol		

Point Symbology	Line Symbology	Area Symbology
AM070		AM070
Point		
tank		
Full Chart Symbology: 2019 black sm filled cir		
AM080		AM080
Point		
water tower		
Full Chart Symbology:		
2078 basic blue dot inside cir		

Point Symbology	Line Symbology	Area Symbology
AN010		AN010
Line		
railroad -non-op, multi, narrow		exs<>0and<>28 AND fco<>0and<>3 AND rgc=2
Full Chart Symbology:	3137 black dash line w/ dou	ible ties alteides
rollroad non on multi-norm//hrd/unk		
railroad -non-op, multi, norml/brd/unk Full Chart Symbology:	AII	exs<>0and<>28 AND fco<>0and<>3 AND rgc<>2
Full Chart Symbology.	3133 black dash line w/ dou	uble tics both sides
railroad -non-op, single/unkn, narrow	ı	exs<>0and<>28 AND fco=0or3 AND rgc=2
Full Chart Symbology:	3135 black dash line w/ sin	ale tics alt sides
railroad -non-op, unkn/single, unkn/n		exs<>0and<>28 AND fco=0or3 AND rgc<>2
Full Chart Symbology:		
	3131 black dash line w/ sin	
railroad -op, mult, narrow		exs=0or28 AND fco<>0and<>3 AND rgc=2
Full Chart Symbology:	3129 black solid line w/ dou	ble tics alt sides
railroad -op, unkn/single, narrow		exs=0or28 AND fco=0or3 AND rgc=2
Full Chart Symbology:	3125 black solid line w/ sin	gle tics alt sides
railroad -op, unkn/single, unkn/norml	/brd	exs=0or28 AND fco=0or3 AND rgc<>2
Full Chart Symbology:	3123 black solid line w/ sing	ale tics both sides
railroad -op,multi, unkn/norml/brd		exs=0or28 AND fco<>0and<>3 AND rgc<>2
Full Chart Symbology:	3127 black solid line w/ dou	uhle tics hoth sides
	0127 Black Solid line W doc	
AN050		AN050
Line		
railroad siding/railroad spur - narrow		rgc=2
Full Chart Symbology:	3125 black solid line w/ sino	gle tics alt sides
railroad siding/railroad spur - normal,	broad,unknown	rgc<>2
Full Chart Symbology:	3123 black solid line w/ sing	gle tics both sides
L		

Point Symbology	Line Symbology	Area Symbology
AN060		AN060
Area		
railroad yard/marshalling yard		
Full Chart Symbology:		0802 gray solid fill
AP010		AP010
Line		
cart track		
Full Chart Symbology:	3116 black very thin dash line	
AP020		AP020
Point		
interchange		
Full Chart Symbology: 2081 black open square		

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
Line		
road - loose surface, fair/dry/winter		rst=2or3 AND wtc=2or3
Full Chart Symbology:		
	1314 black very thin solid lin	ne
road - non-operational, hard surface, i	national/state	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1
Full Chart Symbology:		
	1317 red brown double dash	n thin lines
road - non-operational, hard surface, i	no median	wtc=1 AND exs<>28 AND med<>1 AND rst=1 AND ltn>=2
Full Chart Symbology:		
	3021 red brown dashed line	
road - non-operational, hard surface		wtc=1 AND exs<>28 AND ltn<2 AND rst=1
Full Chart Symbology:		
	3028 red brown thin dash lir	ne
road - non-operational, loose surface,	no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3
Full Chart Symbology:		
	4319 brown dash line	
road - non-operational, loose surface,	with median	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3
Full Chart Symbology:		
	4321 brown double dash thi	n line
road - non-operational, loose surface		wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3
Full Chart Symbology:	1571 brown thin dash line	
road - operational, hard surface, inters	state/international	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1
Full Chart Symbology:	1316 red brown single lines	
road - operational, hard surface, natio	nal/state	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=1
Full Chart Symbology:	1315 red brown double solic	thin lines
•		

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
road - operational, hard surface, pr	vate/other	wtc=1 AND exs=28 AND ltn<2 AND rst=1
Full Chart Symbology:	4055 and brown thin policely	
	1855 red brown thin solid li	ne
road - operational, loose surface, m	nedian	wtc=1 AND exs=28 AND Itn>=2 AND med=1 AND rst=2or3
Full Chart Symbology:		
	4320 brown double solid th	in line
road - operational, loose surface, n	o median	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3
Full Chart Symbology:		
	3014 brown solid line	
road - operational, loose surface		wtc=1 AND exs=28 AND ltn<2 AND rst=2or3
Full Chart Symbology:		
	3012 brown thin solid line	
road - unknown surface and weather	erability	rst=0 OR wtc=0
Full Chart Symbology:		
	1314 black very thin solid I	ine
AP050		AP050
Line		
trail		
Full Chart Symbology:		
	0656 gray very thin dash lii	ne
AQ010		AQ010
Line		
aerial cableway lines/ski lift lines		
Full Chart Symbology:		
	0657 gray thick dash line	

VMap Level 1

Point Symbology Line Symbology Area Symbology

AQ040 AQ040

Line

bridge/overpass/viaduct

Full Chart Symbology:

0751 black solid line w/ tick terminators

Point

bridge/overpass/viaduct

Full Chart Symbology:

2083 black double line with flares on ends

AQ060 AQ060

Point

control tower

Full Chart Symbology:

2088 purple dot inside cir

AQ070 AQ070

Line

ferry crossing

Full Chart Symbology:

3115 black thin short dash line

Point

ferry crossing

Full Chart Symbology:

1005 black F inside boat

AQ110 AQ110

Point

mooring mast

Full Chart Symbology:

2094 purple solid ellipse extending from pole

VMap Level 1

Full Chart Symbology:

2101 red brown octagon shape w/ "R" inside

Point Symbology Line Symbology Area Symbology **AQ113 AQ113** Line pipeline/pipe - on or above ground; not water loc<>4 AND pro<>116 Full Chart Symbology: 1305 brown dash thin line w/ dot pipeline/pipe - on or above ground; water loc<>4 AND pro=116 **Full Chart Symbology:** 1304 basic blue thin dash line w/ dot pipeline/pipe - undergound; water loc=4 AND pro=116 Full Chart Symbology: 1303 basic blue thin dash line w/ circle pipeline/pipe - underground; not water loc=4 AND pro<>116 Full Chart Symbology: 3022 brown thin dash line w/ open cir **AQ116 AQ116 Point** pumping station **Full Chart Symbology:** 2097 black sm square w/ P inside **AQ130 AQ130** Line tunnel **Full Chart Symbology:** 3141 black three dash one dot very thin line **Point** tunnel **Full Chart Symbology:** 2100 black box w/ round top w/ "T" inside **AQ135 AQ135 Point** vehicle stopping area/rest area

VMap Level 1

Point Symbology Line Symbology Area Symbology AT010 AT010 **Point** disk/dish **Full Chart Symbology:** 2102 black satellite dish symbol AT030 AT030 Line power transmission line **Full Chart Symbology:** 3074 purple thin solid line w/ dots on each side AT060 **AT060** Line telephone line/telegraph line Full Chart Symbology: 3096 gray very rhin dash line w/ dot AT080 **AT080 Point** communication tower **Full Chart Symbology:** 2108 black tower w/ sound waves at top **BA010 BA010** Line coastline/shoreline - mangrove, marsh slt=6or8 **Full Chart Symbology:** 3042 basic blue very thin short dash line slt<>6and<>8 coastline/shoreline -not mangrove or marsh **Full Chart Symbology:** 0621 depth med blue very thin solid line **BA020 BA020** Area foreshore **Full Chart Symbology:** 0803 yellow green solid fill

Point Symbology	Line Symbology		Area Symbology	
BA030				BA030
Area				
island				
Full Chart Symbology:			0822 It brown solid fill	
BA040				BA040
Area				
water (except inland)				
Full Chart Symbology:			0821 depth It blue solid fill	
BB040				BB040
Line				
breakwater/groyne				
Full Chart Symbology:	0623 dk gray thin solid line			
PP440				DD440
BB140				BB140
Line		vrr=8		
jetty - covers and uncovers		VII-0		
Full Chart Symbology:	0626 dk gray thin dash line			
jetty - unknown, partly submerged at	high water	vrr=0or1		
Full Chart Symbology:	0623 dk gray thin solid line			
BB190				BB190
Area				22.00
pier/wharf/quay				
Full Chart Symbology:	0625 dk gray thick solid line			
Line				
pier/wharf/quay				
Full Chart Symbology:	0625 dk grou thick collid line			
	0625 dk gray thick solid line	:		

Point Symbology	Line Symbology	Area Symbology
BB230		BB230
Line		
seawall		
Full Chart Symbology:	0623 dk gray thin solid line	
BD120		BD120
Area		
reef		
Full Chart Symbology:	3186 black jagged line	
Line		
reef		
Full Chart Symbology:	3186 black jagged line	
BD130		BD130
Point		
rock		
Full Chart Symbology: 0063 black 6 point asterisk		
BD180		BD180
Point		
wreck		
Full Chart Symbology: 2212 black solid filled shipwreck symbol		
BE015		BE015
Line		
depth contour		
Full Chart Symbology:	3082 gray very thin solid line	

Point Symbology	Line Symbology	Area Symbology
BH010		ВН010
Line		
aqueduct - elevated	loc=25	
Full Chart Symbology:		
	4266 basic blue very thin solid line	
aqueduct - not elevated	loc<>25	
Full Chart Symbology:	3050 basic blue dashed line w/ open cirs	
Point		
aqueduct		
Full Chart Symbology: 1007 basic blue cir		
BH015		BH015
Area		
bog		
Full Chart Symbology:		
		4080 basic blue marsh/swamp patt fill
BH020		BH020
Line		
canal - not perennial	hyc<>8	
Full Chart Symbology:	3167 depth pale blue thin short dash line	
canal - perennial	hyc=8	
Full Chart Symbology:	2400 double male blue this called the	
	3108 depth pale blue thin solid line	
BH030		BH030
Line		
ditch - not perennial	hyc<>0and<>	8
Full Chart Symbology:	0669 depth med blue very thin dash line	
ditch - perennial, unknown	hyc=0or8	
Full Chart Symbology:	0621 depth med blue very thin solid line	

VMap Level 1

Full Chart Symbology:

2087 black opposing solid triangles pnting in

Point Symbology	Line Symbology	Area Symbology
BH040		BH040
Area		
filtration beds/aeration beds		
Full Chart Symbology:	0600 black very thin solid line	4303 100% cyan blue rt diag line patt fill
BH050		BH050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:	3112 black thin solid line	4138 med blue solid fill
ВН060		BH060
Line		
flume - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
flume - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	
BH070		BH070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point		
ford		

Point Symbology	Line Symbology	Area Symbology
BH080		BH080
Area		
lake/pond - dry, intermittent	hyc=3or6	
Full Chart Symbology:	1655 basic blue thin dash line	1611 basic blue dot patt fill
lake/pond - perennial, unknown	hyc=0or8	
Full Chart Symbology:		4071 basic blue solid fill
BH090		BH090
Area		
land subject to inundation		
Full Chart Symbology:		4078 basic blue inundation area patt fill
BH095		BH095
BH095 Area		BH095
		BH095
Area		BH095 4080 basic blue marsh/swamp patt fill
Area marsh/swamp		
Area marsh/swamp Full Chart Symbology:		4080 basic blue marsh/swamp patt fill
Area marsh/swamp Full Chart Symbology: BH110	loc=25	4080 basic blue marsh/swamp patt fill
Area marsh/swamp Full Chart Symbology: BH110 Line	loc=25 3106 depth pale blue very thin solid line w/ ticks	4080 basic blue marsh/swamp patt fill
Area marsh/swamp Full Chart Symbology: BH110 Line penstock - elevated	3106 depth pale blue very thin solid line w/	4080 basic blue marsh/swamp patt fill

VMap Level 1

Point Symbology	Line Symbology	Area Symbology	
BH120			BH120
Line			
rapids			
Full Chart Symbology:	3117 black thin dash line		
Point			
rapids			
Full Chart Symbology: 2231 basic blue open diamond			
BH130			BH130
Area			
reservoir			
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill	
BH135			BH135
Area			
rice field			
Full Chart Symbology:			

4085 basic blue rice patt fill

H140
H145
H150
H155
ŀ

VMap Level 1

Point Symbology Line Symbology Area Symbology **BH160 BH160** Area sebkha **Full Chart Symbology:** 4289 basic blue stipple dot patt fill **BH170 BH170 Point** spring/water-hole Full Chart Symbology: 1008 basic blue filled cir w/ tail below **BH180 BH180** Line waterfall **Full Chart Symbology:** 0621 depth med blue very thin solid line **Point** waterfall **Full Chart Symbology:** 1009 basic blue filled diamond **BH190 BH190** Area lagoon/reef pool Full Chart Symbology: 1506 basic blue jagged vy thin line **BI010 BI010 Point** cistern **Full Chart Symbology:** 1010 basic blue solid square

Point Symbology	Line Symbology	Area Symbology
BI020		BI020
Line		
dam/weir		
Full Chart Symbology:		
	3113 black solid line	
Point		
dam/weir		
Full Chart Symbology:		
2238 black vertical heavy weight line		
BI030		BI030
Line		
lock		
Full Chart Symbology:		
	3194 nav orange very thin solid line	
BI050		BI050
Point		
water intake tower		
Full Chart Symbology:		
0024 black dot inside cir		
BJ020		BJ020
Area		
moraine		
Full Chart Symbology:		
	1406 brown thin solid line	4032 brown stipple dot patt fill
BJ030		BJ030
Area		
glacier		
Full Chart Symbology:		
		4150 depth pale blue stiple dot patt fill

Point Symbology	Line Symbology	Area Symbology	
BJ040			BJ040
Line			
ice cliff			
Full Chart Symbology:	3047 basic blue thin long dash line		
BJ060			BJ060
Point			
ice peak/nunatak			
Full Chart Symbology: 2242 black 8 pt asterisk w/ open center			
BJ065			BJ065
Area			
ice shelf			
Full Chart Symbology:		4151 basic blue ripple jagged patt fill	
BJ070			BJ070
Area			
pack ice			
Full Chart Symbology:		4151 basic blue ripple jagged patt fill	
BJ080			BJ080
Area			
polar ice			
Full Chart Symbology:		4289 basic blue stipple dot patt fill	
BJ100			BJ100
Area			
snow field/ice field			
Full Chart Symbology:	4180 depth pale blue very thin short dash line		

Point Symbology	Line Symbology		Area Symbology
BJ110			BJ110
Area			
tundra			
Full Chart Symbology:			4066 yellow-green variated stipple dot patt fill
CA010			CA010
Line			
contour line (land)			
Full Chart Symbology:	3026 red brown solid line		
CA030			CA030
Point			
spot elevation - accurate		ela=1	
Full Chart Symbology: 2243 black sm filled cir			
spot elevation - not accurate		ela<>1	
Full Chart Symbology: 1011 black sm filled cir beside +-			
DA005			DA005
Area			
asphalt lake			
Full Chart Symbology:			4124 depth gray land cover/ripple patt fill

Point Symbology	Line Symbology		Area Symbology
DA010			DA010
Area			
ground surface element - boulders, g	ravel	mcc=46or8	
Full Chart Symbology:			4034 brown heavy mixed stipple dot patt fill
ground surface element - lava		mcc=52	4034 Brown neavy mixed supple dot patt iiii
		11100-02	
Full Chart Symbology:			4108 It gray land cover/ripple patt fill
ground surface element - not rock, no	ot lava, not sand	mcc<>8and<	>52and<>88and<>46
Full Chart Symbology:			4003 beige solid fill
ground surface element - sand		mcc=88	
Full Chart Symbology:	4220 med-beige thin solid I	ine	4005 beige stiple dot patt fill
DB010			DB010
Line			
bluff/cliff/escarpment			
Full Chart Symbology:	3146 black solid triangle lin	e patt	
DB030			DB030
Point			
cave			
Full Chart Symbology: 2247 black diag line w/ "L" on top			
DB060			DB060
Line			
crevice/crevasse - earthen		mcc=0or30	
Full Chart Symbology:	3024 red brown very thin so	olid line	
crevice/crevasse - snow/ice		mcc=103	
Full Chart Symbology:	1656 100% cyan blue very	thin solid line	
	<u> </u>		_

Point Symbology	Line Symbology	Area Symbology
DB070		DB070
Line		
cut		
Full Chart Symbology:	1308 black very thin line w/ ticks	
DB090		DB090
Line		
embankment/fill		
Full Chart Symbology:	1309 black double lines w/ ticks pointing out	
DB100		DB100
Line		
esker		
Full Chart Symbology:	3003 tan very thin solid line	
DB110		DB110
Line		
fault		
Full Chart Symbology:	3026 red brown solid line	
DB115		DB115
Point		
geothermal feature		
Full Chart Symbology: 2248 sm brown filled cir w/ tail below		
DB150		DB150
Point		
mountain pass		
Full Chart Symbology: 2249 black)(symbol		

Point Symbology	Line Symbology	Area Symbology
DB160		DB160
Point		
rock strata/rock formation		
Full Chart Symbology: 2250 brown 6 pt asterisk w/ open center		
DB170		DB170
Area		
sand dune/sand hills - crescent	ssc=22	
Full Chart Symbology:		4009 beige sand dune crescent
sand dune/sand hills - lateral	ssc=26	
Full Chart Symbology:		4010 beige sand dune lateral
sand dune/sand hills - mounds	ssc=27	
Full Chart Symbology:		4011 beige sand dune mound
sand dune/sand hills - ripple	ssc=28	
Full Chart Symbology:		4012 beige sand dune ripple
sand dune/sand hills - star	ssc=29	
Full Chart Symbology:		4013 beige sand dune star
sand dune/sand hills - transverse	ssc=30	
Full Chart Symbology:		4014 beige sand dune transverse
sand dune/sand hills - unknown	ssc=0	
Full Chart Symbology:		4008 beige sand dune default
EA010		EA010
Area		
cropland		
Full Chart Symbology:		4067 yellow-green dot patt fill

Point Symbology	Line Symbology	Area Symbology
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		4051 very dk green squares in grid patt fill
EA050		EA050
Area		
vineyards		
Full Chart Symbology:		4054 very dk green offset grid/dot patt fill
EB010		EB010
Area		
grassland		
Full Chart Symbology:		4068 yellow-green grass patt fill
EC020		EC020
Point		
oasis		
Full Chart Symbology: 2252 green palm tree symbol		

VMap Level 1

Point Symbology Line Symbology Area Symbology

EC030 EC030

Area

trees - casuarina, coniferous, palm, filao, eucalyptus,

veg=11or12or17or18or29or38

cypress

Full Chart Symbology:

1606 yellow-green triangle tree patt fill

trees - nipa palm, mangrove

veg=16or19

Full Chart Symbology:

1655 basic blue thin dash line

1613 yellow-green nipa patt fill

trees - unknown, deciduous, mixed, other

veg=0or24or50or999

Full Chart Symbology:

1605 yellow-green tree-top patt fill

Line

trees

Full Chart Symbology:

3031 very dk green thin solid line

EC040 EC040

Line

cleared way/cut line/firebreak

Full Chart Symbology:

3076 It gray thin solid line

Point Symbology	Line Symbology		Area Symbology	
FA000			FA0	00
Line				
administrative boundary - internationa	al	use=4or23		
Full Chart Symbology:				\neg
1310 black one long dash two short dash line				
<mark>administrative boundary - primary, un</mark>	known	use=0or26		
Full Chart Symbology:	1211 block long doch short	doch line		
	1311 black long dash short			_
administrative boundary - secondary		use=30		
Full Chart Symbology:	1318 black thin long dsh 2 s	hrt dsh line		
administrative boundary - tertiary	<u> </u>	use=31		
Full Chart Symbology:				\neg
	1319 black thin long dash 3	dot line		
FA001			FA0	01
Area				
administrative area				
Full Chart Symbology:				\neg
	0633 It gray thin dash line			
FA020			FA0	20
Line				
armistice line				
Full Chart Symbology:				\exists
	3119 black very thin long da	ish line		
FA030			FA0	30
Line				
cease-fire line				
Full Chart Symbology:	3119 black very thin long da	sh line		
	2 2.2.2 2, a 12.1g do			

Point Symbology	Line Symbology	Area Symbology
FA050		FA050
Line		
mandate line/convention line		
Full Chart Symbology:	3118 black dash line	
FA060		FA060
Line		
defacto boundary		
Full Chart Symbology:	1310 black one long dash two short dash line	
FA070		FA070
Area		
demilitarized zone		
Full Chart Symbology:	3143 black double dash very thin lines	
FA090		FA090
Line		
geophysical prospecting grid		
Full Chart Symbology:	0612 It gray very thin solid line	
FA110		FA110
Line		
international date line		
Full Chart Symbology:	3119 black very thin long dash line	
FA170		FA170
Area		
zone of occupation		
Full Chart Symbology:	3118 black dash line	

VMap Level 1

Point Symbology Line Symbology **Area Symbology GB005 GB005 Point** airport/airfield - not operational exs<>28 Full Chart Symbology: 2268 It gray airplane airport/airfield - operational; military use=8or22 AND exs=28 **Full Chart Symbology:** 2269 magenta airplane airport/airfield - operational; non military use<>8and<>22 AND exs=28 **Full Chart Symbology:** 2267 aero-blue airplane **GB010 GB010 Point** airport lighting **Full Chart Symbology:** 1012 aero blue solid filled star **GB055 GB055** Line runway **Full Chart Symbology:** 3069 aero-blue very thin solid line **Point** runway - not operational exs<>28 Full Chart Symbology: 2281 gray cir w/ open diag band runway - operational exs=28 Full Chart Symbology: 2273 aero-blue solid cir w/ open diag band **ZB035 ZB035 Point** control point/control station Full Chart Symbology: 2279 black triangle w/ dot inside

VMap Level 1

Full Chart Symbology:

Point Symbology	Line Symbology	Area Symbology	
ZC040			ZC040
Area			
magnetic disturbance area			
Full Chart Symbology:			
0733 It magenta open flag	0716 gray dash/chevron line		
ZD020			ZD020
Area			
void collection area			

4105 It gray rt diag thin line patt fill

3082 gray very thin solid line

Point Symbology	Line Symbology	Area Symbology
AA010		AA010
Area		
mine/quarry		
Full Chart Symbology: 2001 black pick & hammer	3116 black very thin dash line	
Point		
mine/quarry		
Full Chart Symbology: 2001 black pick & hammer		
AA040		AA040
Point		
rig/superstructure		
Full Chart Symbology: 2002 black tower		
AA050		AA050
Point		
well - not water	pro<>116	
Full Chart Symbology: 0078 black sm cir		
well - water	pro=116	
Full Chart Symbology: 2003 basic blue solid filled cir		
AB000		AB000
Area		
disposal site/waste pile		
Full Chart Symbology:		2000 111
		0822 It brown solid fill
AB010		AB010
Area		
wrecking yard/scrap yard		
Full Chart Symbology:		4107 It gray dot patt fill

VMap Level 2

Point Symbology Line Symbology Area Symbology

AC000

AC000

Area

processing plant/treatment plant

Full Chart Symbology:

0624 feature brown very thin dash line

Point

processing plant/treatment plant

Full Chart Symbology:

2005 black building w/ 2 smokestacks above

AC020 AC020

Point

catalytic cracker

Full Chart Symbology:

2005 black building w/ 2 smokestacks above

AC030 AC030

Area

settling basin/sludge pond

Full Chart Symbology:

0600 black very thin solid line 4077 depth med blue narrow rt diag line patt fill

AD010 AD010

Area

power plant

Full Chart Symbology:

0600 black very thin solid line 0804 brown solid fill

AD020 AD020

Point

solar panels

Full Chart Symbology:

2010 black sun burst w/ dot inside

Point Symbology	Line Symbology	Area Symbology	
AD030			AD030
Area			
substation/transformer yard			
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill	
Point			
substation/transformer yard			
Full Chart Symbology: 2011 black filled square w/ zap on top			
AF010			AF010
Point			
chimney/smokestack			
Full Chart Symbology: 0003 black chimney symbol			
AF020			AF020
Line			
conveyor			
Full Chart Symbology:	3086 gray very thin short dash line		
AF030			AF030
Point			
cooling tower			
Full Chart Symbology: 2016 black dot inside double cir			
AF040			AF040
Point			
crane			
Full Chart Symbology: 0005 feature brown crane symbol			

VMap Level 2

Full Chart Symbology: 0008 black sm cir w/ X on top

Point Symbology Line Symbology Area Symbology **AF070 AF070 Point** flare pipe Full Chart Symbology: 0006 black flare stack symbol AH050 **AH050** Area fortification **Full Chart Symbology:** 4186 magenta thin dash line **Point** fortification Full Chart Symbology: 2043 black four black squares w/ connection AI020 AI020 Area mobile home/mobile home park **Full Chart Symbology:** 3114 black very thin short dash line **AJ030 AJ030** Area feedlot/stockyard/holding pen Full Chart Symbology: 4217 beige very thin solid line AJ050 **AJ050 Point** windmill

Point Symbology	Line Symbology	Area Symbology	
AK020			AK020
Point			
amusement park attraction			
Full Chart Symbology: 2029 black ferris wheel			
AK030			AK030
Area			
amusement park			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK040			AK040
Area			
athletic field			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK060			AK060
Area			
campground/campsite			
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill	
AK070			AK070
Area			
drive in theater			
Full Chart Symbology:	4279 nav orange thin short dash line		
AK090			AK090
Area			
fairgrounds			
Full Chart Symbology:	4279 nav orange thin short dash line		
i ali chart Symbology.	4279 nav orange thin short dash line		

Point Symbology	Line Symbology	Area Symbology
AK100		AK100
Area		
golf course		
Full Chart Symbology:	4279 nav orange thin short dash line	
AK120		AK120
Area		
park		
Full Chart Symbology:	3117 black thin dash line	4045 green solid fill
AK130		AK130
Line		
race track		
Full Chart Symbology:	3113 black solid line	
AK150		AK150
Line		
ski jump		
Full Chart Symbology:	0656 gray very thin dash line	
Point		
ski jump		
Full Chart Symbology: 2034 black skier		
AK160		AK160
Area		
stadium/amphitheater		
Full Chart Symbology:	3113 black solid line	

Point Symbology	Line Symbology	Area Symbology	
AK170			AK170
Area			
swimming pool			
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill	
AK180			AK180
Area			
zoo/safari park			
Full Chart Symbology:			
	3117 black thin dash line	4045 green solid fill	

Point Symbology	Line Symbology		Area Symbology	
AL015				AL015
Area				
building - generic		bfc<>6and<>7	7 <mark>and<>15</mark>	
Full Chart Symbology:			4156 black solid fill	
building - hospital		bfc=6	4130 black Solid IIII	
Full Chart Symbology:		DIC-0		
Tuli Chart Symbology.			4015 beige-rose solid fill	
building - house of worship		bfc=7		
Full Chart Symbology:			4000 H haire askid fill	
building - school		bfc=15	4002 It beige solid fill	
		DIC-13		
Full Chart Symbology:			4025 feature brown solid fill	
Line				
building - generic		bfc<>6and<>7	7and<>15	
Full Chart Symbology:	2112 block thin colid line			
	3112 black thin solid line			
building - hospital		bfc=6		
Full Chart Symbology:	3153 beige-rose thin solid li	ne		
building - house of worship		bfc=7		
Full Chart Symbology:				
	3001 It beige thin solid line			
building - school		bfc=15		
Full Chart Symbology:	1406 brown thin solid line			
Point				
building - generic			<mark>r9or10or11or16or17or18or19o</mark> or25or26or27or29or30or33or3	
Full Chart Symbology: 2036 black sm filled square				

Point Symbology	Line Symbology	Area Symbology
AL015		AL015
building - generic		bfc=53or59or69or70or83or85or86or87or88or89or90 or91or92or93or95or98or999
Full Chart Symbology: 2036 black sm filled square		
building - government		bfc=2or3or5or8or12or13or14or28or31or35or37or61 or66or77or96
Full Chart Symbology: 1001 red filled square black outline		
building - hospital		bfc=6
Full Chart Symbology: 1002 black filled cir w/ white cross inside		
building - house of worship		bfc=7 AND hwt=0or2or3or4or7
Full Chart Symbology: 2045 black filled square w/ cross on top		
building - house of worship		bfc=7 AND hwt=11or14or15or16
Full Chart Symbology: 0011 black X inscribed in rectangle		
building - house of worship		bfc=7 AND hwt=20
Full Chart Symbology: 2047 black filled square w/ T on top		
building - house of worship		bfc=7 AND hwt=21
Full Chart Symbology: 2048 black pinwheel		
building - house of worship		bfc=7 AND hwt=5or6or9
Full Chart Symbology: 0012 black mosque/minaret w/ dot in circle		
building - lighthouse		bfc=82
Full Chart Symbology: 2044 black lighthouse symbol		
building - school		bfc=15
Full Chart Symbology: 2042 black filled square w/ flag on top		

Point Symbology	Line Symbology	Area Symbology
AL020		AL02
Area		
built-up area		
Full Chart Symbology:		4400 valley salid fill
		4128 yellow solid fill
AL025		AL02
Point		
cairn		
Full Chart Symbology: 0017 black three stacked sm cirs		
AL030		AL03
Area		
cemetery		
Full Chart Symbology:	0600 black very thin solid line	0804 brown solid fill
Point		
cemetery		
Full Chart Symbology: 1003 black cross		
AL060		AL06
Area		
dragon teeth		
Full Chart Symbology:	1301 black line w/ squares	
Line		
dragon teeth		
Full Chart Symbology:	1301 black line w/ squares	
AL070		AL07
Line		
fence		
Full Chart Symbology:	3148 black patt line -x -x -x	

Point Symbology	Line Symbology	Area Symbology	
AL100		AL10	00
Point			
hut			
Full Chart Symbology: 2058 gray filled square			
AL105		AL10	05
Area			
settlement			
Full Chart Symbology:		0802 gray solid fill	
Point			
settlement			
Full Chart Symbology: 2060 black square w/ S inside			
AL130		AL13	30
Point			
monument			
Full Chart Symbology: 2063 black monument symbol			
AL135		AL13	35
Area			
native settlement			
Full Chart Symbology:		0802 gray solid fill	
AL140		AL14	40
Area			
particle accelerator			
Full Chart Symbology:		4089 magenta solid fill	

VMap Level 2

Point Symbology Line Symbology **Area Symbology AL170 AL170** Area plaza/city square Full Chart Symbology: 4018 It tan solid fill **AL200 AL200** Area ruins **Full Chart Symbology:** 3114 black very thin short dash line **Point** ruins Full Chart Symbology: 0002 feature brown filled square w/ black outline **AL210 AL210** Line snow shed/rock shed **Full Chart Symbology:** 3146 black solid triangle line patt **Point** snow shed/rock shed Full Chart Symbology: 2070 black diag bands in rectangle **AL240 AL240 Point** tower (non-communication) Full Chart Symbology: 2071 black dot inside cir

Line Symbology	Area Symbology	
		AL250
		AL260
3113 black solid line		
		AM010
	4028 brown horizontal lines patt fill	
		AM020
	4028 brown horizontal lines patt fill	
		AM030
	4028 brown horizontal lines patt fill	
		3113 black solid line 4028 brown horizontal lines patt fill

VMap Level 2

2078 basic blue dot inside cir

Point Symbology Line Symbology **Area Symbology AM060 AM060** Area storage bunker/storage mound Full Chart Symbology: 4114 depth gray horizontal lines patt fill **Point** storage bunker/storage mound Full Chart Symbology: 2076 red brown filled semicircle **AM070 AM070** Area tank Full Chart Symbology: 4156 black solid fill **Point** tank **Full Chart Symbology:** 2019 black sm filled cir **AM080 AM080 Point** water tower **Full Chart Symbology:**

Point Symbology	Line Symbology	Area Symbology
AN010		AN010
Line		
railroad -non-op, multi, narrow		exs<>0and<>28 AND fco<>0and<>3 AND rgc=2
Full Chart Symbology:	3137 black dash line w/ dou	this tice alt sides
railroad -non-op, multi, norml/brd/unk		exs<>0and<>28 AND fco<>0and<>3 AND rgc<>2
-		exs - valid > 20 AND 100 > valid > 3 AND 190 > 2
Full Chart Symbology:	3133 black dash line w/ dou	ble tics both sides
railroad -non-op, single/unkn, narrow		exs<>0and<>28 AND fco=0or3 AND rgc=2
Full Chart Symbology:	3135 black dash line w/ sing	ale tics alt sides
railroad -non-op, unkn/single, unkn/no		exs<>0and<>28 AND fco=0or3 AND rgc<>2
Full Chart Symbology:		
	3131 black dash line w/ sing	gle tics both sides
railroad -op, mult, narrow		exs=0or28 AND fco<>0and<>3 AND rgc=2
Full Chart Symbology:	3129 black solid line w/ dou	ble tics alt sides
railroad -op, unkn/single, narrow		exs=0or28 AND fco=0or3 AND rgc=2
Full Chart Symbology:	3125 black solid line w/ sing	gle tics alt sides
railroad -op, unkn/single, unkn/norml/	brd	exs=0or28 AND fco=0or3 AND rgc<>2
Full Chart Symbology:	3123 black solid line w/ sing	ale tics both sides
railroad -op,multi, unkn/norml/brd		exs=0or28 AND fco<>0and<>3 AND rgc<>2
Full Chart Symbology:	2127 blook golid ling w/ dou	hla tiga hath aidea
	3127 black solid line w/ dou	DIE LICS DOUT SIDES
AN050		AN050
Line		
railroad siding/railroad spur - narrow		rgc=2
Full Chart Symbology:	3125 black solid line w/ sing	gle tics alt sides
railroad siding/railroad spur - normal,	broad,unknown	rgc<>2
Full Chart Symbology:	3123 black solid line w/ sing	ale tics both sides
L	o side. cond into the oning	,

VMap Level 2

Point Symbology Line Symbology **Area Symbology AN060 AN060** Area railroad yard/marshalling yard Full Chart Symbology: 0802 gray solid fill **AN075 AN075 Point** railroad turntable Full Chart Symbology: 2080 black rt diag line inside cir **AP010 AP010** Line cart track **Full Chart Symbology:** 3117 black thin dash line **AP020 AP020** Line interchange Full Chart Symbology: 3121 black long dash line

Point Symbology	Line Symbology	Area Symbology
AP030		AP030
Line		
road - loose surface, fair/dry/winter		rst=2or3 AND wtc=2or3
Full Chart Symbology:		
	1314 black very thin solid lir	ne
road - non-operational, hard surface, i	national/state	wtc=1 AND exs<>28 AND Itn>=2 AND med=1 AND rst=1
Full Chart Symbology:	4047	la Maio Paras
	1317 red brown double das	n thin lines
road - non-operational, hard surface, i	no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1
Full Chart Symbology:	0004	
	3021 red brown dashed line	
road - non-operational, hard surface		wtc=1 AND exs<>28 AND Itn<2 AND rst=1
Full Chart Symbology:		
	3028 red brown thin dash lir	ne
road - non-operational, loose surface,	no median	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3
Full Chart Symbology:		
	4319 brown dash line	
road - non-operational, loose surface,	with median	wtc=1 AND exs<>28 AND Itn>=2 AND med=1 AND rst=2or3
Full Chart Symbology:		
	4321 brown double dash thi	n line
road - non-operational, loose surface		wtc=1 AND exs<>28 AND Itn<2 AND rst=2or3
Full Chart Symbology:	1571 brown thin dash line	
road - operational - loose surface		wtc=1 AND exs=28 AND ltn<2 AND rst=2or3
Full Chart Symbology:	3012 brown thin solid line	
road - operational, hard surface, inters		wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1
Full Chart Symbology:	1316 red brown single lines	

VMap Level 2

Point Symbology Line Symbology Area Symbology **AP030 AP030** road - operational, hard surface, national/state wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=1 **Full Chart Symbology:** 1315 red brown double solid thin lines road - operational, hard surface, private/other wtc=1 AND exs=28 AND ltn<2 AND rst=1 Full Chart Symbology: 1855 red brown thin solid line wtc=1 AND exs=28 AND Itn>=2 AND med=1 AND road - operational, loose surface, median rst=2or3 Full Chart Symbology: 4320 brown double solid thin line road - operational, loose surface, no median wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3 **Full Chart Symbology:** 3014 brown solid line road - unknown surface and weatherability rst=0 OR wtc=0 Full Chart Symbology: 1314 black very thin solid line **AP050 AP050** Line trail **Full Chart Symbology:** 0656 gray very thin dash line **AQ010 AQ010** Line aerial cableway lines/ski lift lines **Full Chart Symbology:** 0657 gray thick dash line

VMap Level 2

Point Symbology Line Symbology **Area Symbology AQ040 AQ040** Line bridge/overpass/viaduct **Full Chart Symbology:** 0751 black solid line w/ tick terminators **Point** bridge/overpass/viaduct Full Chart Symbology: 2083 black double line with flares on ends **AQ060 AQ060 Point** control tower Full Chart Symbology: 2088 purple dot inside cir **AQ065 AQ065 Point** culvert Full Chart Symbology: 2090 black cir w/ C inside **AQ070 AQ070** Line ferry crossing Full Chart Symbology: 3115 black thin short dash line **Point** ferry crossing **Full Chart Symbology:** 1005 black F inside boat **AQ110 AQ110**

mooring mast

Point

Full Chart Symbology:

2094 purple solid ellipse extending from pole

VMap Level 2

Point Symbology Line Symbology **Area Symbology AQ113 AQ113** Line loc<>4 AND pro<>116 pipeline/pipe - on or above ground; not water Full Chart Symbology: 1305 brown dash thin line w/ dot loc<>4 AND pro=116 pipeline/pipe - on or above ground; water **Full Chart Symbology:** 1304 basic blue thin dash line w/ dot pipeline/pipe - undergound; water loc=4 AND pro=116 Full Chart Symbology: 1303 basic blue thin dash line w/ circle pipeline/pipe - underground; not water loc=4 AND pro<>116 Full Chart Symbology: 3022 brown thin dash line w/ open cir **AQ116 AQ116** Area pumping station Full Chart Symbology: 4262 purple thin dash line **Point** pumping station **Full Chart Symbology:** 2097 black sm square w/ P inside **AQ130 AQ130** Line tunnel **Full Chart Symbology:** 3141 black three dash one dot very thin line **Point** tunnel Full Chart Symbology: 2100 black box w/ round top w/ "T" inside

VMap Level 2

2106 black filled square w/ outward ticks

Line Symbology	Area Symbology	
		AQ135
4240, rod colid thin line	1610, red left dies line nett fill	
4240 Ted Solid Uliff lifte	1610 Ted left diag line patt lill	
		AQ140
4240 red solid thin line	1610 red left diag line patt fill	
		AT010
		AT030
3074 purple thin solid line w/ dots on each s	ide	
		AT050
3117 black thin dash line	4109 depth gray solid fill	
	4240 red solid thin line 4240 red solid thin line 3074 purple thin solid line w/ dots on each s	4240 red solid thin line 1610 red left diag line patt fill 4240 red solid thin line 1610 red left diag line patt fill 3074 purple thin solid line w/ dots on each side

Point Symbology	Line Symbology		Area Symbology	
AT060				AT060
Line				
telephone line/telegraph line				
Full Chart Symbology:	3096 gray very rhin dash line	e w/ dot		
1700	gray very mini daem min			4.7000
AT080				AT080
Point				
communication tower				
Full Chart Symbology: 2108 black tower w/ sound waves at top				
BA010				BA010
Line				
coastline.shoreline - not mangrove or	marsh	slt<>6and<>8		
Full Chart Symbology:	0621 depth med blue very th	nin solid line		
coastline/shoreline - mangrove, marsl	1	slt=6or8		
Full Chart Symbology:				
	3042 basic blue very thin sh	ort dash line		
BA020				BA020
Area				
foreshore				
Full Chart Symbology:			0803 yellow green solid fill	
D. 4.000				D 4 000
BA030				BA030
Area island				
Full Chart Symbology:				
Full Chart Symbology:			0822 It brown solid fill	
BA040				BA040
Area				
water (except inland)				
Full Chart Symbology:			0821 depth It blue solid fill	

Point Symbology	Line Symbology	Area Symbology
BB010		BB010
Area		
anchorage		
Full Chart Symbology: 0902 It magenta anchor	0711 magenta dash/chevron line w/anchor symbol	
Point		
anchorage		
Full Chart Symbology: 0036 magenta anchor		
BB040		BB040
Area		
breakwater/groyne		
Full Chart Symbology:	0623 dk gray thin solid line	
Line		
breakwater/groyne		
Full Chart Symbology:	0623 dk gray thin solid line	
BB090		BB090
Area		
drydock		
Full Chart Symbology:	3112 black thin solid line	
BB140		BB140
Area		
jetty		
Full Chart Symbology:		
	0623 dk gray thin solid line	
Line		
jetty		
Full Chart Symbology:	0623 dk gray thin solid line	

Point Symbology	Line Symbology	Area Symbology	
BB190			BB190
Area			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
Line			
pier/wharf/quay			
Full Chart Symbology:	0625 dk gray thick solid line		
BB230			BB230
Line			
seawall			
Full Chart Symbology:	0623 dk gray thin solid line		
BB240			BB240
Area			
slipway/patent slip			
Full Chart Symbology:	0623 dk gray thin solid line		
Line			
slipway/patent slip			
Full Chart Symbology:	0623 dk gray thin solid line		
BD100			BD100
Area			
pile/piling/post			
Full Chart Symbology:	0680 black thin dotted line	0810 depth med blue solid fill	
Point			_
pile/piling/post			
Full Chart Symbology: 2264 black cir			

Point Symbology	Line Symbology	Area Symbology
BD120		BD120
Area		
reef		
Full Chart Symbology:		
	3186 black jagged line	
Line		
reef		
Full Chart Symbology:		
	3186 black jagged line	
BD130		BD130
Point		
rock		
Full Chart Symbology:		
0063 black 6 point asterisk		
BD180		BD180
Point		
wreck		
Full Chart Symbology:		
2212 black solid filled shipwreck symbol		
BE015		BE015
Line		
depth contour		
Full Chart Symbology:		
	3082 gray very thin solid line	

Point Symbology	Line Symbology	Area Symbology
BH010		ВН010
Line		
aqueduct - elevated	loc=25	
Full Chart Symbology:	4266 basic blue very thin solid line	
aqueduct - not elevated	loc<>25	
Full Chart Symbology:	3050 basic blue dashed line w/ open cirs	
Point		
aqueduct		
Full Chart Symbology: 1007 basic blue cir		
BH015		BH015
Area		
bog		
Full Chart Symbology:		4080 basic blue marsh/swamp patt fill
BH020		BH020
Area		
canal - navigable; perennial	exs=32 AND	hyc=8
Full Chart Symbology:		4138 med blue solid fill
canal - not navigable or not perennial	exs<>32 OR	hyc<>8
Full Chart Symbology:	4265 basic blue thin solid line	1608 basic blue stipple dot patt fill
Line		
canal - not perennial	hyc<>8	
Full Chart Symbology:	3167 depth pale blue thin short dash line	
canal - perennial	hyc=8	
Full Chart Symbology:	3108 depth pale blue thin solid line	

Point Symbology	Line Symbology	Area Symbology
BH030		ВН030
Area		
ditch		
Full Chart Symbology:		
		0821 depth It blue solid fill
Line		
ditch - intermittent	hyc=6	
Full Chart Symbology:	0669 depth med blue very thin dash line	
ditch - perennial, unknown	hyc=0or8	
Full Chart Symbology:	0621 depth med blue very thin solid line	
BH040		BH040
Area		
filtration beds/aeration beds		
Full Chart Symbology:		
	0600 black very thin solid line	4303 100% cyan blue rt diag line patt fill
BH050		ВН050
Area		
fish hatchery/fish farm/marine farm		
Full Chart Symbology:		
	3112 black thin solid line	4138 med blue solid fill
BH060		BH060
Line		
flume - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
flume - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	

Point Symbology	Line Symbology	Area Symbology
BH070		ВН070
Line		
ford		
Full Chart Symbology:	3114 black very thin short dash line	
Point	·	
ford		
Full Chart Symbology:		
2087 black opposing solid triangles pnting in		
BH077		BH077
Area		
hummock		
Full Chart Symbology:	4544 house this the exchanged tights	
	1511 brown thin line outward ticks	
BH080		BH080
Area		
lake/pond - dry, intermittent	hyc=3or6	
Full Chart Symbology:	1655 basic blue thin dash line	1611 basic blue dot patt fill
lake/pond - perennial, unknown	hyc=0or8	
Full Chart Symbology:		
		4071 basic blue solid fill
ВН090		ВН090
Area		
land subject to inundation		
Full Chart Symbology:		
		4078 basic blue inundation area patt fill
BH095		BH095
Area		
marsh/swamp		
Full Chart Symbology:		4080 basic blue marsh/swamp patt fill
_		

Point Symbology	Line Symbology	Area Symbology
BH110		BH110
Line		
penstock - elevated	loc=25	
Full Chart Symbology:	3106 depth pale blue very thin solid line w/ ticks	
penstock - not elevated	loc<>25	
Full Chart Symbology:	3107 depth pale blue very thin solid line	
BH120		BH120
Line		
rapids		
Full Chart Symbology:	3117 black thin dash line	
Point		
rapids		
Full Chart Symbology: 2231 basic blue open diamond		
BH130		BH130
Area		
reservoir		
Full Chart Symbology:	0600 black very thin solid line	4138 med blue solid fill
BH135		BH135
Area		
rice field		
Full Chart Symbology:		4085 basic blue rice patt fill

Point Symbology	Line Symbology	Area Symbology
BH140		BH140
Area		
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	4079 100% cyan blue stipple dot patt fill
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	4154 31% cyan blue solid fill
Line		
river/stream - dry, intermittent	hyc=3or6	
Full Chart Symbology:	4182 100% cyan blue very thin short dash line	
river/stream - perennial, unknown	hyc=0or8	
Full Chart Symbology:	1656 100% cyan blue very thin solid line	
BH145		BH145
Point		
river stream vanishing point		
Full Chart Symbology: 2232 basic blue solid arrowhead		
BH150		BH150
Area		
salt pan		
Full Chart Symbology:		0911 depth med blue grid patt fill
BH155		BH155
Area		
salt evaporator		
Full Chart Symbology:		0911 depth med blue grid patt fill

VMap Level 2

Point Symbology Line Symbology Area Symbology

BH160

BH160

Area

sebkha

Full Chart Symbology:

4289 basic blue stipple dot patt fill

BH170 BH170

Point

spring/water-hole

Full Chart Symbology:

1008 basic blue filled cir w/ tail below

BH180 BH180

Line

waterfall

Full Chart Symbology:

0621 depth med blue very thin solid line

Point

waterfall

Full Chart Symbology:

1009 basic blue filled diamond

BI010 BI010

Point

cistern

Full Chart Symbology:

1010 basic blue solid square

VMap Level 2

Point Symbology Line Symbology Area Symbology **BI020 BI020** Area dam/weir **Full Chart Symbology:** 4156 black solid fill Line dam/weir Full Chart Symbology: 3113 black solid line **Point** dam/weir Full Chart Symbology: 2238 black vertical heavy weight line **BI030 BI030** Area lock **Full Chart Symbology:** 0600 black very thin solid line 0810 depth med blue solid fill **Point** lock Full Chart Symbology: 2239 black open arrowhead **BI040 BI040** Line sluice gate **Full Chart Symbology:** 0623 dk gray thin solid line **Point** sluice gate Full Chart Symbology: 0025 traffic magenta lg cir, 2 horiz & 1 vert line

Point Symbology	Line Symbology	Area Symbology
BI050		BI050
Area		
water intake tower		
Full Chart Symbology:	0600 black very thin solid line	
Point		
water intake tower		
Full Chart Symbology: 0024 black dot inside cir		
BJ020		BJ020
Area		
moraine		
Full Chart Symbology:	1406 brown thin solid line	4032 brown stipple dot patt fill
BJ030		BJ030
Area		
glacier		
Full Chart Symbology:		4150 depth pale blue stiple dot patt fill
BJ040		BJ040
Line		
ice cliff		
Full Chart Symbology:	3047 basic blue thin long dash line	
BJ060		BJ060
Point		
ice peak/nunatak		
Full Chart Symbology: 2242 black 8 pt asterisk w/ open center		

Point Symbology	Line Symbology	Area Symbology	
BJ065			BJ065
Area			
ice shelf			
Full Chart Symbology:			
		4151 basic blue ripple jagged patt fill	
BJ070			BJ070
Area			
pack ice			
Full Chart Symbology:			
		4151 basic blue ripple jagged patt fill	
BJ080			BJ080
Area			
polar ice			
Full Chart Symbology:			
		4289 basic blue stipple dot patt fill	
BJ100			BJ100
Area			
snow field/ice field			
Full Chart Symbology:			
	4180 depth pale blue very thin short dash line		
BJ110			BJ110
Area			
tundra			
Full Chart Symbology:			
		4066 yellow-green variated stipple dot	t patt fill

VMap Level 2

Point Symbology Line Symbology Area Symbology **CA010 CA010** Line contour line (land) - depression mound mcc<>103 AND hgc=5or8 Full Chart Symbology: 1307 red brown vy thin line w/ ticks on inside contour line (land) - index approximate mcc<>103 AND hgc=7 **Full Chart Symbology:** 4306 red brown very thin long dash line contour line (land) - index mcc<>103 AND hqc=0or1 **Full Chart Symbology:** 3026 red brown solid line mcc<>103 AND hqc=12 contour line (land) - intermediate approximate Full Chart Symbology: 4307 red brown very very thin long dash line contour line (land) - intermediate depression mound mcc<>103 AND hqc=6or9 Full Chart Symbology: 4305 red brown very very thin line w/ tick marks contour line (land) - intermediate mcc<>103 AND hqc=2 Full Chart Symbology: 4304 red brown very very thin solid line contour line (land) - supplementary 1/2, approx, form lines mcc<>103 AND hqc=3or4or13 Full Chart Symbology: 1306 red brown very very thin dash line contour line (land) - supplementary 1/4 mcc<>103 AND hqc=14 Full Chart Symbology: 4308 red brown very very thin short dash line contour line (snow\ice) - index approximate mcc=103 AND hqc=7 Full Chart Symbology: 4316 100% cyan blue very thin long dash line contour line (snow\ice) - index depression mound mcc=103 AND hgc=5or8 Full Chart Symbology: 4314 100% cyan blue vy thin line w/ ticks on inside mcc=103 AND hqc=0or1 contour line (snow\ice) - index unknown Full Chart Symbology:

4311 100% cyan very thin blue solid line

VMap Level 2

Point Symbology Line Symbology Area Symbology **CA010 CA010** contour line (snow\ice) - intermediate approximate mcc=103 AND hqc=12 **Full Chart Symbology:** 4317 100% cyan blue very very thin long dash contour line (snow\ice) - intermediate depression mound mcc=103 AND hgc=6or9 Full Chart Symbology: 4315 100% cyan blue very very thin line w/ contour line (snow\ice) - intermediate mcc=103 AND hqc=2 Full Chart Symbology: 4312 100% cyan blue very very thin solid line contour line (snow\ice) - supplementary 1/2, approx, form mcc=103 AND hqc=3or4or13 lines, approx **Full Chart Symbology:** 4313 100% cyan blue very very thin dash line contour line (snow\ice) - supplementary 1/4 mcc=103 AND hqc=14 Full Chart Symbology: 4318 100% cyan blue very very thin short dash line **CA030 CA030 Point** spot elevation - accurate ela=1 Full Chart Symbology: 2243 black sm filled cir spot elevation - not accurate ela<>1 **Full Chart Symbology:** 1011 black sm filled cir beside +-**DA005 DA005**

Area

asphalt lake

Full Chart Symbology:

4124 depth gray land cover/ripple patt fill

Point Symbology	Line Symbology	A	rea Symbology
DA010			DA010
Area			
ground surface element - boulders, gr	avel mo	c=46or8	
Full Chart Symbology:		40	34 brown heavy mixed stipple dot patt fill
ground surface element - lava	mo	c=52	
Full Chart Symbology:		41	08 It gray land cover/ripple patt fill
ground surface element - not rock, no	t lava, not sand mo	c<>8and<>52	and<>46and<>88
Full Chart Symbology:		40	003 beige solid fill
ground surface element - sand	mo	cc=88	
Full Chart Symbology:	4220 med-beige thin solid line	40	005 beige stiple dot patt fill
DB010			DB010
Line			
bluff/cliff/escarpment			
Full Chart Symbology:	3146 black solid triangle line pat	t	
DB030			DB030
Point			
cave			
Full Chart Symbology: 2247 black diag line w/ "L" on top			

Point Symbology	Line Symbology	Area Symbology	
DB060			DB060
Area			
crevice/crevasse			
Full Chart Symbology:		4000 because left diese this lies a set fill	
		4030 brown left diag thin line patt fill	
Line			
crevice/crevasse - earthen	mcc=0or30		
Full Chart Symbology:	3024 red brown very thin solid line		
crevice/crevasse - snow/ice	mcc=103		
Full Chart Symbology:			
	1656 100% cyan blue very thin solid line		
DB070			DB070
Line			
cut			
Full Chart Symbology:	1308 black very thin line w/ ticks		
DB090			DB090
Area			
embankment/fill			
Full Chart Symbology:	1516 black thin line outward ticks		
Line			
embankment/fill			
Full Chart Symbology:			
	1309 black double lines w/ ticks pointing out		
DB100			DB100
Line			
esker			
Full Chart Symbology:	3003 tan very thin solid line		
	ooo tan very tilli solid lille		

VMap Level 2

Point Symbology

DB110

Line

fault

Full Chart Symbology:

3026 red brown solid line

DB115 DB115

Point

geothermal feature

Full Chart Symbology:

2248 sm brown filled cir w/ tail below

DB150 DB150

Point

mountain pass

Full Chart Symbology:

2249 black)(symbol

DB160 DB160

Area

rock strata/rock formation

Full Chart Symbology:

4028 brown horizontal lines patt fill

Point

rock strata/rock formation

Full Chart Symbology:

2250 brown 6 pt asterisk w/ open center

VMap Level 2

Point Symbology	Line Symbology	Area Symbology	
DB170			DB170
Area			
sand dune/sand hills - crescent	ssc=22		
Full Chart Symbology:		4009 beige sand dune crescent	
sand dune/sand hills - lateral	ssc=26		
Full Chart Symbology:		4010 beige sand dune lateral	
sand dune/sand hills - mounds	ssc=27		
Full Chart Symbology:		4011 beige sand dune mound	
sand dune/sand hills - ripple	ssc=28		
Full Chart Symbology:		4012 beige sand dune ripple	
sand dune/sand hills - star	ssc=29		
Full Chart Symbology:		4013 beige sand dune star	
sand dune/sand hills - transverse	ssc=30		
Full Chart Symbology:		4014 beige sand dune transverse	
sand dune/sand hills - unknown	ssc=0		
Full Chart Symbology:		4008 beige sand dune default	
DB180			DB180
Point			
volcano			
Full Chart Symbology: 2251 sm brown open cir w/ eight tics outside			
EA010			EA010
Area			
cropland			
Full Chart Symbology:		4067 yellow-green dot patt fill	

VMap Level 2

Point Symbology	Line Symbology	Area Symbology
EA020		EA020
Line		
hedgerow		
Full Chart Symbology:	3036 very dk green thin line w/rectangles one side	
EA030		EA030
Area		
nursery		
Full Chart Symbology:		4230 yellow-green squares in grid patt fill
EA040		EA040
Area		
orchard/plantation		
Full Chart Symbology:		4051 very dk green squares in grid patt fill
EA050		EA050
EA050 Area		EA050
		EA050
Area		EA050 4054 very dk green offset grid/dot patt fill
Area vineyards		
Area vineyards Full Chart Symbology:		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EB010		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EB010 Area		4054 very dk green offset grid/dot patt fill
Area vineyards Full Chart Symbology: EB010 Area grassland		4054 very dk green offset grid/dot patt fill EB010
vineyards Full Chart Symbology: EB010 Area grassland Full Chart Symbology:		4054 very dk green offset grid/dot patt fill EB010 4068 yellow-green grass patt fill
Area vineyards Full Chart Symbology: EB010 Area grassland Full Chart Symbology: EB020		4054 very dk green offset grid/dot patt fill EB010 4068 yellow-green grass patt fill
Area vineyards Full Chart Symbology: EB010 Area grassland Full Chart Symbology: EB020 Area		4054 very dk green offset grid/dot patt fill EB010 4068 yellow-green grass patt fill

VMap Level 2

Point Symbology Line Symbology **Area Symbology** EC010 EC010 Area bamboo/cane **Full Chart Symbology:** 4052 green bamboo patt fill **EC020 EC020** Area oasis **Full Chart Symbology:** 4170 It blue mixed stipple dot patt fill **Point** oasis Full Chart Symbology: 2252 green palm tree symbol **EC030 EC030** Area trees - casuarina, coniferous, palm, filao, evergreen, veg=11or12or17or18or25or29or38 eucalyptus, cypress Full Chart Symbology: 1606 yellow-green triangle tree patt fill trees - nipa palm, mangrove veg=16or19 Full Chart Symbology: 1655 basic blue thin dash line 1613 yellow-green nipa patt fill veg=0or24or50or999 trees - unknown, deciduous, mixed, other **Full Chart Symbology:** 1605 yellow-green tree-top patt fill **Point** trees Full Chart Symbology: 2253 green triangle tree symbol

VMap Level 2

Point Symbology	Line Symbology	Area Symbology	
EC040			EC040
Line			
cleared way/cut line/firebreak			
Full Chart Symbology:	0070 K seemable called the		
	3076 It gray thin solid line		
FA000			FA000
Line			
administrative boundary - internation	al use=23	3	
Full Chart Symbology:	1310 black one long dash two short da	ash line	
administrative boundary - primary, un	known use=0	or26	
Full Chart Symbology:	1311 black long dash short dash line		
FA001			FA001
Area			
administrative area			
Full Chart Symbology:	0633 It gray thin dash line		
FA020			FA020
Line			
armistice line			
Full Chart Symbology:	3119 black very thin long dash line		
FA030			FA030
Line			
cease-fire line			
Full Chart Symbology:	3119 black very thin long dash line		
FA060			FA060
Line			
defacto boundary			
Full Chart Symbology:	1310 black one long dash two short da	ash line	

VMap Level 2

Point Symbology	Line Symbology	Area Symbology	
FA070			FA070
Area			
demilitarized zone			
Full Chart Symbology:	0440 black death a death compliain lines		
	3143 black double dash very thin lines		
FA090			FA090
Line			
geophysical prospecting grid			
Full Chart Symbology:			
	0612 It gray very thin solid line		
FA110			FA110
Line			
international date line			
Full Chart Symbology:			
	3119 black very thin long dash line		
FA170			FA170
Area			
zone of occupation			
Full Chart Symbology:			
	3118 black dash line		

VMap Level 2

Point Symbology Line Symbology **Area Symbology GB005 GB005** Area airport/airfield **Full Chart Symbology:** 4183 magenta solid line **Point** airport/airfield - not operational exs<>28 Full Chart Symbology: 2268 It gray airplane airport/airfield - operational; military use=8or22 AND exs=28 **Full Chart Symbology:** 2269 magenta airplane airport/airfield - operational; non military use<>8and<>22 AND exs=28 Full Chart Symbology: 2267 aero-blue airplane **GB010 GB010 Point** airport lighting **Full Chart Symbology:** 1012 aero blue solid filled star **GB015 GB015** Area apron/hardstand Full Chart Symbology: 4194 aero-blue very thin short dash line **GB045 GB045** Area overrun/stopway Full Chart Symbology: 4098 purple wide rt diag line patt fill

VMap Level 2

Point Symbology	Line Symbology	Area Symbology	
GB055			GB055
Area			
runway			
Full Chart Symbology:		4089 magenta solid fill	
GB075			GB075
Area			
taxiway			
Full Chart Symbology:	3070 aero-blue thin solid line		
ZB030			ZB030
Point			
boundary monument			
Full Chart Symbology: 2278 black dot in square			
ZB035			ZB035
Point			
control point/control station			
Full Chart Symbology: 2279 black triangle w/ dot inside			
ZD020			ZD020
Area			
void collection area			
Full Chart Symbology:	3082 gray very thin solid line	4105 It gray rt diag thin line patt fill	

WVSPlus

Point Symbology	Line Symbology	Area Symbology	
BA010			BA010
Line			
coastline/shoreline			
Full Chart Symbology:	1573 dk gray very thin solid line		
BA040			BA040
Area			
water (except inland)			
Full Chart Symbology:		0805 depth white fill	
BE015			BE015
Line			
depth contour			
Full Chart Symbology:	3082 gray very thin solid line		
BE019			BE019
Area			
depth area			
Full Chart Symbology:		0820 depth pale blue solid fill	

WVSPlus

Point Symbology	Line Symbology		Area Symbology	
FA000				FA000
Line				
administrative boundary				
Full Chart Symbology:				
	1408 basic green vy thin long line	dash short dash		
administrative boundary - national, in	t <mark>ernational ι</mark>	se=4or23		
Full Chart Symbology:	1310 black one long dash two	short dash line		
administrative boundary - primary, un	known ι	se=0or26		
Full Chart Symbology:	1311 black long dash short da	sh line		
administrative boundary - secondary		ise=30		
Full Chart Symbology:		136-30		
Tuli Ghart Gymbology.	1318 black thin long dsh 2 shr	t dsh line		
administrative boundary - tertiary	ι	se=31		
Full Chart Symbology:	1319 black thin long dash 3 do	ot line		
FA001				FA001
Area				
administrative area				
Full Chart Symbology:	0622 It grow thin doch line			
	0633 It gray thin dash line			
FA020				FA020
Line				
armistice line				
Full Chart Symbology:	3119 black very thin long dash	line		
FA030				FA030
Line				
cease-fire line				
Full Chart Symbology:	3119 black very thin long dash	ı line		
L	, 3			

WVSPlus

Point Symbology	Line Symbology	Area Symbology
FA040		FA040
Line		
claim line		
Full Chart Symbology:	3120 black thin long dash line	
FA050		FA050
Line		
mandate line/convention line		
Full Chart Symbology:	3118 black dash line	
FA060		FA060
Line		
defacto boundary		
Full Chart Symbology:	1310 black one long dash two short dash line	
FA070		FA070
Line		
demilitarized zone	mbl=6	
Full Chart Symbology:		
	3143 black double dash very thin lines	

WVSPlus

Point Symbology Line Symbology Area Symbology

FC021 FC021

Line

maritime limit boundary - international (at sea) mbl=9

Full Chart Symbology:

1451 purple dash line w/ tics both sides (- + -)

maritime limit boundary - other territorial baseline

mbl=999

Full Chart Symbology:

3054 It magenta very thin short dash line

maritime limit boundary - territorial waters baseline

mbl=7

Full Chart Symbology:

3077 It gray very thin dash line

maritime limit boundary - territorial waters limits

mbl=6

Full Chart Symbology:

0633 It gray thin dash line

ZD003 ZD003

Line

artifact location

Full Chart Symbology:

0600 black very thin solid line

PRODUCT DISPLAY PRIORITY

F.1 SCOPE

F.1.1 <u>Scope</u>. This appendix provides a product-based report of the display priorities assigned to each feature/attribute combination. It is a mandatory part of the specification. The information contained herein is intended for compliance.

F.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

F.3 PRODUCT DISPLAY PROIORITY

This appendix is sorted by product and then by display priority. It lists the delineation-specific feature/attribute combinations that are assigned each of the display priority values (0 to 9). This appendix represents the default display priority values contained in the *sym.txt files contained in the SYMASN\ASCII directory.

Product Display Priority Reference

Display P	riority 0		
Area	BA040		water (except inland)
Area	BE010	cvl=99999	depth area; depth unknown
Area	BE010	cvl=99999	depth area; depth unknown
Area	BE010	cvl=99999	depth area; depth unknown
Area	BE010	idsm=0 AND cvl>=msdcand<>99999	depth area (very deep); 4 shades
Area	BE010	idsm=0 AND cvl>=ssdcand <msdc< td=""><td>depth area (medium deep); 4 shades</td></msdc<>	depth area (medium deep); 4 shades
Area	BE010	idsm=0 AND isdm=0 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode off</td></mssc<>	depth area (very shallow); 4 shades; shallow mode off
Area	BE010	idsm=0 AND isdm=0 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode off</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode off
Area	BE010	idsm=0 AND isdm=1 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode on</td></mssc<>	depth area (very shallow); 4 shades; shallow mode on
Area	BE010	idsm=0 AND isdm=1 AND cvl <mssc< td=""><td>depth area (very shallow); 4 shades; shallow mode on</td></mssc<>	depth area (very shallow); 4 shades; shallow mode on
Area	BE010	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode on</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode on
Area	BE010	idsm=0 AND isdm=1 AND cvl>=msscand <ssdc< td=""><td>depth area (medium shallow); 4 shades; shallow mode on</td></ssdc<>	depth area (medium shallow); 4 shades; shallow mode on
Area	BE010	idsm=1 AND cvl>=ssdcand<>99999	depth area (deep water); 2 shades
Area	BE010	idsm=1 AND isdm=0 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode off</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode off
Area	BE010	idsm=1 AND isdm=1 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode on</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode on
Area	BE010	idsm=1 AND isdm=1 AND cvl <ssdc< td=""><td>depth area (very shallow); 2 shades; shallow mode on</td></ssdc<>	depth area (very shallow); 2 shades; shallow mode on
Area	FC021	mac=26	maritime limit boundary - unsurveyed
Area	FC021	mac=26	maritime limit boundary - unsurveyed
Area	FC021	mac=26	maritime limit boundary - unsurveyed
Display P	riority 1		
Line	FC021	mac=26 AND mbl=NULL	maritime limit boundary - unsurveyed
Area	AK090		fairgrounds
Area	BA020		foreshore
Area	BA020	isdm=1	foreshore - shallow display mode on
Area	BA030		island
Area	BD120	vrr=8	reef - covers and uncovers
Area	BD120	vrr=8 AND isdm=1	reef - covers and uncovers, shallow display mode on
Area	BH090		land subject to inundation

splay P	riority 1		
Area	BJ110		tundra
Area	DA010		ground surface element
Area	FC031	mac=2 AND hdp=0 AND isdm=0	maritime area - dredged channel, depth unknown, shallow mode off
Area	FC031	mac=2 AND hdp=0 AND isdm=0	maritime area - dredged channel, depth unknown, shallow mode off
Area	FC031	mac=2 AND hdp=0 AND isdm=0	maritime area - dredged channel, depth unknown, shallow mode off
Area	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
Area	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
Area	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
Area	FC031	mac=2 AND hdp=0 AND isdm=1	maritime area - dredged channel, depth unknown, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>=msdc	maritime area - dredged channel, 4 shades, deep water
Area	FC031	mac=2 AND idsm=0 AND hdp>=msdc	maritime area - dredged channel, 4 shades, deep water
Area	FC031	mac=2 AND idsm=0 AND hdp>=msdc	maritime area - dredged channel, 4 shades, deep water
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=0</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=0</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=0</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode off
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>=msscand <ssdc AND isdm=1</ssdc 	maritime area - dredged channel, 4 shades, med shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
Area	FC031	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
Area	FC031	mac=2 AND idsm=0 AND hdp>=ssdcand <msdc< td=""><td>maritime area - dredged channel, 4 shades, medium deep</td></msdc<>	maritime area - dredged channel, 4 shades, medium deep
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off

play P	riority 1		
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="0</th"><th>maritime area - dredged channel, 4 shades, very shallow, shallow mode off</th></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode off
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=0 AND hdp>0and <mssc and="" isdm="1</td"><td>maritime area - dredged channel, 4 shades, very shallow, shallow mode on</td></mssc>	maritime area - dredged channel, 4 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=1 AND hdp>=ssdc	maritime area - dredged channel, 2 shades, deep water
Area	FC031	mac=2 AND idsm=1 AND hdp>=ssdc	maritime area - dredged channel, 2 shades, deep water
Area	FC031	mac=2 AND idsm=1 AND hdp>=ssdc	maritime area - dredged channel, 2 shades, deep water
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="0</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode off</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode off
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
Area	FC031	mac=2 AND idsm=1 AND hdp>0and <ssdc and="" isdm="1</td"><td>maritime area - dredged channel, 2 shades, very shallow, shallow mode on</td></ssdc>	maritime area - dredged channel, 2 shades, very shallow, shallow mode on
splay P	riority 2		
Line	BH020		canal
Line	BH140		river/stream
Line	FC031	mac=2	maritime area - dredged channel
Area	BH020		canal
Area	BH080		lake/pond
Area	BH130		reservoir
Area	BH140		river/stream
Area	GB005		airport/airfield
Area	GB005		airport/airfield
	riority 3		

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Display P	riority 3		
Point	AL020		built-up area
Point	BB020		berth
Point	BD010		breakers
Point	BD040		eddies
Point	BD060		kelp/seaweed
Point	BD080		overfalls/tide rips
Point	BJ060		ice peak/nunatak
Line	AK020		amusement park attraction
Line	AL070		fence
Line	AL260		wall
Line	AT005		cable
Line	BA020		foreshore
Line	BH120		rapids
Line	BH180		waterfall
Line	BH210		inland shoreline
Line	FC021	mbl<>7and<>13 AND mac=NULL	maritime limit boundary - not clearing line
Line	FC021	mbl=7 AND mac=NULL	maritime limit boundary - territorial waters baseline
Area	AC030		settling basin/sludge pond
Area	AL020		built-up area
Area	AN060		railroad yard/marshalling yard
Area	BB010	mac<>12	anchorage - not anchoring berth
Area	BB180		oyster bed/mussel bed
Area	BD060		kelp/seaweed
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH095		marsh/swamp
Area	BH155		salt evaporator
Area	BJ030		glacier
Area	BJ030		glacier
Area	BJ065		ice shelf
Area	BJ065		ice shelf
Area	BJ100		snow field/ice field
Area	BJ100		snow field/ice field
Area	DB090		embankment/fill
Area	DB170		sand dune/sand hills

DNC **DNC Display Priority** 3 EA030 Area nursery EA040 orchard/plantation Area EA050 Area vineyards Area EC030 veg<>19 trees - not mangrove Area EC030 veg=19 trees - mangrove FC021 Area mac=0or999 maritime limit boundary - unknown, other Area FC021 mac=25 maritime limit boundary - spoil Area FC021 mac=30or35 maritime limit boundary - dumping, explosive dumping Area FC021 mac=31maritime limit boundary - incineration FC021 Area mac=49 maritime limit boundary - cargo Xshipment FC021 Area mac=57 maritime limit boundary - marine farm FC031 mac=0or9 Area maritime area - unknown, work in progress Area FC036 mac=20restricted area - cables FC036 mac=21or23or61 restricted area - pipelines, sewer Area FC036 mac=45or46 restricted area - outfall, intake Area FC165 Area rtt=0route (maritime) - use unknown Display Priority Point AF040 AH010 Point bastion/rampart/fortification Point AH050 fortification Point AL015 bfc <> 7and <> 81 building - not house of worship, not maritime station Point AL200 loc=22 AND vrr=4 AND hdp=0 ruins - offshore, submerged - depth unknown Point AL200 loc=22 AND vrr=4 AND hdp>0and<=20 ruins - offshore, submerged - depth 20m or less AL200 Point loc=22 AND vrr=4 AND hdp>20 ruins - offshore, submerged - depth greater than 20m Point AL200 loc=22 AND vrr=8 ruins - offshore, covers and uncovers Point AM020 grain bin/silo AM030 Point grain elevator Point AM070 tank Point AM080 water tower Point AQ080 ferry site Point BA030 island Point BB105 fishing harbor

oyster bed/mussel bed

Point

BB180

Display Priority 4					
Point	BC010	nst=1or4or5or17or41or51or53	beacon - radio navigation system		
Point	BC020	nst=1or4or5or17or41or51or53 AND ssc<>10	buoy - non-pillar; radio navigation system		
Point	BC020	nst=1or4or5or17or41or51or53 AND ssc=10	buoy - pillar; radio navigation system		
Point	BC040	nst=1or4or5or17or41or51or53	light - radio navigation system		
Point	BC070	nst=1or4or5or17or41or51or53	light vessel/lightship - radio navigation system		
Point	BD000	acc<>1	underwater danger/hazard - not accurate		
Point	BD000	hdp=0	underwater danger/hazard - depth unknown		
Point	BD000	hdp>0and<=20	underwater danger/hazard - depth 20m or less		
Point	BD000	hdp>20	underwater danger/hazard - depth greater than 20m		
Point	BD020	acc<>1	crib - not accurate		
Point	BD020	vrr=1 AND hdp=NULL	crib - partly submerged/dry; depth null		
Point	BD020	vrr=4 AND hdp=0	crib - submerged; depth unknown		
Point	BD020	vrr=4 AND hdp>0and<=20	crib - submerged; depth 20m or less		
Point	BD020	vrr=4 AND hdp>20	crib - submerged; depth greater than 20m		
Point	BD020	vrr=8 AND hdp=NULL	crib - covers and uncovers; depth null		
Point	BD030		discolored water		
Point	BD030	acc<>1	discolored water - not accurate		
Point	BD050		foul ground		
Point	BD130	acc<>1	rock - not accurate		
Point	BD130	hdp=NULL	rock - depth null		
Point	BD130	vrr=4 AND hdp=0	rock - submerged; depth unknown		
Point	BD130	vrr=4 AND hdp>0and<=20	rock - submerged; depth 20m or less		
Point	BD130	vrr=4 AND hdp>20	rock - submerged; depth greater than 20m		
Point	BD140	acc<>1	snags/stumps - not accurate		
Point	BD140	vrr=1 AND hdp=NULL	snags/stumps - partly submergerd/dry; depth null		
Point	BD140	vrr=4 AND hdp=0	snags/stumps - submergerd; depth unknown		
Point	BD140	vrr=4 AND hdp>0and<=20	snags/stumps - submerged; depth 20m or less		
Point	BD140	vrr=4 AND hdp>20	snags/stumps - submerged; depth greater than 20m		
Point	BD140	vrr=8 AND hdp=NULL	snags/stumps - covers and uncovers; depth null		
Point	BD180	acc<>1	wreck - not accurate		
Point	BD180	hdp=NULL AND vrr=0	wreck - unknown; depth null		
Point	BD180	hdp=NULL AND vrr=1or2or8	wreck - not submerged; depth null		
Point	BD180	loc<>4 AND hdp=NULL	wreck - showing mast/hull/superstructure; depth null		
Point	BD180	vrr=4 AND hdp>0and<=20	wreck - submerged; depth 20m or less		

isplay P	riority 4		
Point	BD180	vrr=4 AND hdp>20	wreck - submerged; depth greater than 20m
Point	BD180	vrr=4 AND soh=1 AND hdp=0	wreck - submerged; dangerous; depth unknown
Point	BD180	vrr=4 AND soh=2 AND hdp=0	wreck - submerged; not dangerous; depth unknown
Point	BF010	mcc=0 AND psc=0	bottom characteristics - surface unknown
Point	BG010	cur=1 AND dof<>0	current flow - ebb; direction known
Point	BG010	cur=2 AND dof<>0	current flow - flood; direction known
Point	BG030		tide data point
Point	BG040		current diagram
Point	CA030		spot elevation
Point	EC030		trees
Point	FC021	mac<>48	maritime limit boundary - not pilot boarding
Point	FC031	mac=0	maritime area - unknown
Point	FC031	mac=2	maritime area - dredged area
Point	FC165	dof<>0	route (maritime) - direction known
Point	FC165	dof=0	route (maritime) - direction unknown
Point	GA035		navaids (aeronautical)
Point	GB005		airport/airfield
Line	AK130		race track
Line	AN010		railroad
Line	AP020		interchange
Line	AP030		road
Line	AQ070	fer=1	ferry crossing - with cables
Line	AQ070	fer=2	ferry crossing - without cables
Line	AQ130		tunnel
Line	BB010	mac<>12	anchorage - not anchoring berth
Line	BB100		fish stakes
Line	BC100		leading line
Line	BD010		breakers
Line	CA010		contour line (land)
Line	DB090		embankment/fill
Line	FA000	use=23	administrative boundary - international
Line	FA000	use=32	administrative boundary - insular
Line	FA020		armistice line
Line	FA040		claim line

isplay P	riority 4		
Line	FA060		defacto boundary
Line	FA110		international date line
Line	FC021	mac=0or999 AND mbl=NULL	maritime limit boundary - unknown, other
Line	FC021	mac=25 AND mbl=NULL	maritime limit boundary - spoil
Line	FC021	mac=30or35 AND mbl=NULL	maritime limit boundary - dumping, explosive dumping
Line	FC021	mac=31 AND mbl=NULL	maritime limit boundary - incineration
Line	FC021	mac=49 AND mbl=NULL	maritime limit boundary - cargo Xshipment
Line	FC021	mac=56 AND mbl=NULL	maritime limit boundary - fish traps
Line	FC021	mac=57 AND mbl=NULL	maritime limit boundary - marine farm
Line	FC021	mbl=13 AND mac=NULL	maritime limit boundary - clearing line
Line	FC031	mac=0or9	maritime area - unknown, work in progress
Line	FC100		measured distance line
Area	AA010		mine/quarry
Area	AB000		disposal site/waste pile
Area	AB010		wrecking yard/scrap yard
Area	AC000		processing plant/treatment plant
Area	AD010		power plant
Area	AD030		substation/transformer yard
Area	AH010		bastion/rampart/fortification
Area	AH050		fortification
Area	AK040		athletic field
Area	AK160		stadium/amphitheater
Area	AL015		building
Area	AL030		cemetery
Area	AL200	loc=22 AND vrr=1	ruins - offshore, does not cover
Area	AL200	loc=22 AND vrr=4 AND hdp=0	ruins - offshore, submerged - depth unknown
Area	AL200	loc=22 AND vrr=4 AND hdp>0and<=20	ruins - offshore, submerged - depth 20m or less
Area	AL200	loc=22 AND vrr=4 AND hdp>20	ruins - offshore, submerged - depth greater than 20m
Area	AL200	loc=22 AND vrr=8	ruins - offshore, covers and uncovers
Area	AL200	loc=8	ruins - on ground surface
Area	AM010		depot (storage)
Area	AM030		grain elevator
Area	AM040		mineral pile

isplay P	riority 4		_
Area	AM070		tank
Area	AQ116		pumping station
Area	AT020		early warning radar site
Area	BB090		drydock
Area	BB110		fish traps/fish weirs
Area	BB150		landing place
Area	BC080		perches/stakes
Area	BD000	acc<>1	underwater danger/hazard - not accurate
Area	BD000	hdp=0	underwater danger/hazard - depth unknown
Area	BD000	hdp>0and<=20	underwater danger/hazard - depth 20m or less
Area	BD000	hdp>20	underwater danger/hazard - depth greater than 20m
Area	BD010		breakers
Area	BD020	acc<>1	crib - not accurate
Area	BD020	vrr=1 AND hdp=NULL	crib - above surface
Area	BD020	vrr=4 AND hdp=0	crib - submerged; depth unknown
Area	BD020	vrr=4 AND hdp>0and<=20	crib - submerged; depth 20m or less
Area	BD020	vrr=4 AND hdp>20	crib - submerged; depth greater than 20m
Area	BD020	vrr=8 AND hdp=NULL	crib - covers and uncovers
Area	BD030		discolored water
Area	BD030	acc<>1	discolored water - not accurate
Area	BD040		eddies
Area	BD050		foul ground
Area	BD080		overfalls/tide rips
Area	BD100	acc<>1	pile/piling/post - not accurate
Area	BD100	vrr=1	pile/piling/post - does not cover
Area	BD100	vrr=4	pile/piling/post - submerged
Area	BD100	vrr=8	pile/piling/post - covers and uncovers
Area	BD120	vrr<>8 AND acc<>1	reef - not covers and uncovers, not accurate
Area	BD120	vrr<>8 AND hdp=0orNULL	reef - not covers and uncovers, depth unknown or null
Area	BD120	vrr=4 AND hdp>0and<=20	reef - submerged, depth 20m or less
Area	BD120	vrr=4 AND hdp>20	reef - submerged, depth greater than 20m
Area	BD140	acc<>1	snags/stumps - not accurate
Area	BD140	vrr=1	snags/stumps - does not cover

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Display Pı	-		and the same of th
Area	BD140	vrr=4	snags/stumps - submerged
Area	BD140	vrr=8	snags/stumps - covers and uncovers
Area	BD180	vrr=0or2 AND hdp=NULL	wreck - unknown; awash; depth null
Area	BD180	vrr=1 AND hdp=NULL	wreck - does not cover; depth null
Area	BD180	vrr=4 AND hdp=0	wreck - submerged; depth unknown
Area	BD180	vrr=4 AND hdp>0and<=20	wreck - submerged; depth 20m or less
Area	BD180	vrr=4 AND hdp>20	wreck - submerged; depth greater than 20m
Area	BD180	vrr=8 AND hdp=NULL	wreck - covers and uncovers; depth null
Area	FC021	mac=27or28or29	maritime limit boundary - submarine exercise, mine laying, firing range
Area	FC021	mac=32or33	maritime limit boundary - oil field, gas field
Area	FC021	mac=42	maritime limit boundary - precautionary
Area	FC021	mac=48	maritime limit boundary - pilot boarding
Area	FC021	mac=55	maritime limit boundary - fairway
Area	FC021	mac=56	maritime limit boundary - fish traps
Area	FC041	tsp=3	traffic separation scheme (TSS) - separation zone area
Area	FC165	rtt=11	route (maritime) - 2-way
Area	FC165	rtt=4	route (maritime) - deep water
Area	FC177		swept area
Area	GB070		seaplane landing/seaplane take-off area
Area	ZC040		magnetic disturbance area
Display Pı	riority 5		
Point	AT045	ssc=0or999	radar transmitter - other, unknown
Point	AT045	ssc=107	radar transmitter - tower
Point	AT045	ssc=108	radar transmitter - scanner
Point	AT045	ssc=60	radar transmitter - mast
Point	AT045	ssc=87	radar transmitter - dome
Point			anchorage - anchoring berth
	BB010	mac=12	unchoruge unchorung bertin
Point	BB010 BB150	mac=12	landing place
Point Point		mac=12 nst=45	
	BB150		landing place
Point	BB150 BC010	nst=45	landing place beacon - radar station
Point Point	BB150 BC010 BC020	nst=45 btc=35	landing place beacon - radar station buoy - articulated light (base)

Display Pi	riority 5		
Point	BC070	nst=45	light vessel/lightship - radar station
Point	BC080		perches/stakes
Point	BD100		pile/piling/post
Point	BD110		platform
Point	BG010	cur=0 OR dof=0	current flow - general; direction unknown
Point	BG010	cur=3or5 AND dof<>0	current flow - general, ocean; direction known
Line	BE010	acc=1 AND crv<>ssdc	depth curve - accurate; not equal ssdc
Line	BE010	acc=2 AND crv<>ssdc	depth curve - not accurate; not equal ssdc
Line	FC021	mac=27or28or29 AND mbl=NULL	maritime limit boundary - submarine exercise, mine laying, firing range
Line	FC021	mac=32or33 AND mbl=NULL	maritime limit boundary - oil field, gas field
Line	FC021	mac=42 AND mbl=NULL	maritime limit boundary - precautionary
Line	FC021	mac=48 AND mbl=NULL	maritime limit boundary - pilot boarding
Line	FC021	mac=55 AND mbl=NULL	maritime limit boundary - fairway
Line	FC177		swept area
Line	GB070		seaplane landing/seaplane take-off area
Area	AL005		animal sanctuary
Area	BB010	mac=12	anchorage - anchoring berth
Area	BB115		gridiron
Area	BB170		offshore loading facility
Area	FC021	mac=24	maritime limit boundary - turning area
Area	FC021	mac=44	maritime limit boundary - deguassing
Area	FC021	mac=58	maritime limit boundary - dredging area
Area	FC031	mac=4	maritime area - mine danger
Area	FC031	mac=41	maritime area - inshore traffic zone (TSS)
Area	FC036	mac=0or999	restricted area - to be avoided, other
Area	FC036	mac=37	restricted area - safety zone
Area	GB055		runway
Display Pi	riority 6		
Point	AD030		substation/transformer yard
Point	AF010		chimney/smokestack
Point	AF030		cooling tower
Point	AF070		flare pipe
Point	AJ050		windmill

isplay Pr	riority 6		
Point	AK020		amusement park attraction
Point	AK080		drive in theater screen
Point	AK160		stadium/amphitheater
Point	AL015	bfc=7 AND hwt=0or2or3or4or7or22	building - house of worship
Point	AL015	bfc=7 AND hwt=11or14or15or16or20or21	building - house of worship
Point	AL015	bfc=7 AND hwt=5or6or9	building - house of worship
Point	AL015	bfc=81 AND sta⇔5 AND sst⇔16	building - maritime station (not rescue), sound signa
Point	AL015	bfc=81 AND sta=0or2or3or6or11	building - maritime station
Point	AL015	bfc=81 AND sta=5 AND sst<>16	building - maritime station (rescue), sound signal
Point	AL018		building superstructure addition
Point	AL025		cairn
Point	AL073		flagstaff/flagpole
Point	AL130		monument
Point	AL200	loc=22 AND vrr=1	ruins - offshore, does not cover
Point	AL200	loc=8	ruins - on ground surface
Point	AL240		tower (non-communication)
Point	AQ060		control tower
Point	AQ110		mooring mast
Point	AQ116		pumping station
Point	AT010		disk/dish
Point	AT050		communication building
Point	AT080		communication tower
Point	BB010	mac<>12	anchorage - not anchoring berth
Point	BB030		bollard
Point	BB050	df1<>0 AND df2=0	calling-in point - one way traffic
Point	BB050	df1=0	calling-in point - direction of traffic unknown
Point	BB050	df2<>0 AND df3=0	calling-in point - two way traffic
Point	BB050	df3⇔0	calling-in point - more than two-way traffic, 2nd direction
Point	BB050	df3<>0	calling-in point - more than two-way traffic, 1st direction
Point	BB050	df3<>0	calling-in point - more than two-way traffic, 3rd direction
Point	BB050	df4<>0	calling-in point - more than two-way traffic, 4th direction
Point	BB080		dolphin

isplay P	riority 6		
Point	BB160		mooring ring
Point	BC010	nst=10or54	beacon - radar navigation system
Point	BC010	ref=1	beacon - radar reflector present
Point	BC010	sst=1or2or3or4or6or9or14or15	beacon - sound signal
Point	BC010	tmc=0or32	beacon - default topmark
Point	BC010	tmc=1	beacon - two cones out
Point	BC010	tmc=15or27or28	beacon - one ball
Point	BC010	tmc=16or21	beacon - one cone up
Point	BC010	tmc=17	beacon - broom point up
Point	BC010	tmc=18	beacon - perch
Point	BC010	tmc=19or31	beacon - rhombus/diamond
Point	BC010	tmc=2	beacon - two balls
Point	BC010	tmc=22	beacon - one cone down
Point	BC010	tmc=23or30	beacon - upright cross
Point	BC010	tmc=25or26or29	beacon - can
Point	BC010	tmc=3	beacon - two cones up
Point	BC010	tmc=6	beacon - special (x)
Point	BC010	tmc=8	beacon - two cones down
Point	BC010	tmc=9	beacon - two cones in
Point	BC020	nst=10or54 AND ssc<>10	buoy - non-pillar; radar navigation system
Point	BC020	nst=10or54 AND ssc=10	buoy - pillar; radar navigation system
Point	BC020	ref=1	buoy - radar reflector present
Point	BC020	sst=1or2or3or4or6or9or14or15	buoy - sound signal
Point	BC020	tmc=0or17or18or32	buoy - default topmark
Point	BC020	tmc=1	buoy - two cones out
Point	BC020	tmc=15or27or28	buoy - one ball
Point	BC020	tmc=16or21	buoy - one cone up
Point	BC020	tmc=19or31	buoy - rhombus/diamond
Point	BC020	tmc=2	buoy - two balls
Point	BC020	tmc=22	buoy - one cone down
Point	BC020	tmc=23or30	buoy - upright cross
Point	BC020	tmc=25or26or29	buoy - can
Point	BC020	tmc=3	buoy - two cones up
Point	BC020	tmc=6	buoy - special (x)

Display P	Pisplay Priority 6					
Point	BC020	tmc=8	buoy - two cones down			
Point	BC020	tmc=9	buoy - two cones in			
Point	BC040	nst=10or54	light - radar navigation system			
Point	BC040	ref=1	light - radar reflector present			
Point	BC040	sst=1or2or3or4or6or9or14or15	light - sound signal			
Point	BC040	tmc=0or32	light - default topmark			
Point	BC040	tmc=1	light - two cones out			
Point	BC040	tmc=15or27or28	light - one ball			
Point	BC040	tmc=16or21	light - one cone up			
Point	BC040	tmc=17	light - broom point up			
Point	BC040	tmc=18	light - perch			
Point	BC040	tmc=19or31	light - rhombus/diamond			
Point	BC040	tmc=2	light - two balls			
Point	BC040	tmc=22	light - one cone down			
Point	BC040	tmc=23or30	light - upright cross			
Point	BC040	tmc=25or26or29	light - can			
Point	BC040	tmc=3	light - two cones up			
Point	BC040	tmc=6	light - special (x)			
Point	BC040	tmc=8	light - two cones down			
Point	BC040	tmc=9	light - two cones in			
Point	BC070	nst=10or54	light vessel/lightship - radar navigation system			
Point	BC070	ref=1	light vessel/lightship - radar reflector present			
Point	BC070	sst=1or2or3or4or6or9or14or15	light vessel/lightship - sound signal			
Point	BD110	nst=10or54	platform - radar navigation system			
Point	BD110	sst≪16	platform - sound signal			
Point	BE020	acc≪1	sounding or drying height - circle (light) indicating low accuracy			
Point	BE020	hdh>=0 AND hdp=NULL	drying height overbar (dark)			
Point	FC021	mac=48	maritime limit boundary - pilot boarding			
Point	FC031	mac=4	maritime area - mine danger area			
Point	FC036	mac=0or999	restricted area - unknown or other			
Point	FC036	mac=37	restricted area - safety zone			
Line	AQ113	loc<>25 AND pro<>95and<>116 AND plt<>2and<>3	pipeline/pipe - not above ground or over water; not sewage or water			
Line	AQ113	loc<>25 AND pro=116	pipeline/pipe - not above ground or over water; water			

			_
isplay P	riority 6		
Line	AQ113	loc<>25 AND pro=95 OR plt=2or3	pipeline/pipe - not above ground or over water; sewage, outfall, intake
Line	BB010	mac=12	anchorage - anchoring berth
Line	BB170		offshore loading facility
Line	BC040		light
Line	BH010	loc⇔25	aqueduct - not elevated
Line	BI020		dam/weir
Line	FC021	mac=24 AND mbl=NULL	maritime limit boundary - turning area
Line	FC021	mac=44 AND mbl=NULL	maritime limit boundary - deguassing
Line	FC021	mac=58 AND mbl=NULL	maritime limit boundary - dredging
Line	FC031	mac=4	maritime area - mine danger
Line	FC036		restricted area
Line	FC130		radar reference line
Line	FC165	atn=1 AND exs=22 AND rtt<>3	route (maritime) - marked;1-way;not recomm for deep draft vessels
Line	FC165	atn=1 AND exs=22 AND rtt=3	route (maritime) - marked;1-way;recomm for deep draft vessels
Line	FC165	atn=1 AND exs=23 AND rtt<>3	route (maritime) - marked;2-way;not recomm for deep draft vessels
Line	FC165	atn=1 AND exs=23 AND rtt=3	route (maritime) - marked;2-way;recomm for deep draft vessels
Line	FC165	atn=2 AND exs=22 AND rtt<>3	route (maritime) - unmarked;1-way;not recomm for deep draft vessels
Line	FC165	atn=2 AND exs=22 AND rtt=3	route (maritime) - unmarked;1-way;recomm for deep draft vessels
Line	FC165	atn=2 AND exs=23 AND rtt<>3	route (maritime) - unmarked;2-way;not recomm for deep draft vessels
Line	FC165	atn=2 AND exs=23 AND rtt=3	route (maritime) - unmarked;2-way;recomm for deep draft vessels
Line	FC165	exs=0 AND rtt<>3	route (maritime) - unknown;not recomm for deep draft vessels
Line	FC165	exs=0 AND rtt=3	route (maritime) - unknown;recomm for deep draft vessels
Line	FC170		safety fairway
Line	GB055		runway
Area	FC031	mac=40	maritime area - roundabout zone (TSS)
Area	FC031	mac=5	maritime area - entry prohibited
Area	FC036	mac=15	restricted area - anchoring prohibited
Area	FC036	mac=22	restricted area - fishing prohibited
Area	FC036	mac=43	restricted area - area to be avoided

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Display P	riority 6		
Area	FC041	tsp=6or7	traffic separation scheme (TSS) - inbound or outbound area
Area	FC170		safety fairway
Display P	riority 7		
Point	AL015	bfc=81 AND sta<>0and<>1and<>2and<>3and<>5and<>6and<>11	building - maritime station
Point	AL015	bfc=81 AND sta=1	building - maritime station
Point	AL015	bfc=81 AND sta=5	building - maritime station
Point	BA020		foreshore
Point	BC055		marker
Point	BG020		tide gauge
Point	FC031	mac=40	maritime area - roundabout zone (TSS)
Point	FC031	mac=5	maritime area - entry prohibited
Point	FC036	mac=15	restricted area - anchoring prohibited
Point	FC036	mac=22	restricted area - fishing prohibited
Point	FC036	mac=43	restricted area - area to be avoided
Point	FC041		traffic separation scheme (TSS)
Line	BA010	acc=1 AND slt⇔6and⇔8	coastline/shoreline - accurate; not mangrove or marsh
Line	BA010	acc=2 AND slt<>6and<>8	coastline/shoreline - approximate; not mangrove or marsh
Line	BA010	slt=6or8	coastline/shoreline - mangrove, marsh
Line	BB040	vrr=1	breakwater/groyne - partly submerged at high water
Line	BB040	vrr=4or8	breakwater/groyne - submerged, covers and uncovers
Line	BB140	vrr=1	jetty - partly submerged at high water
Line	BB140	vrr=4or8	jetty - submerged, covers and uncovers
Line	BB190		pier/wharf/quay
Line	BB220	vrr=1	ramp (maritime) - partly submerged at high water
Line	BB220	vrr=4or8	ramp (maritime) - submerged, covers and uncovers
Line	BB230		seawall
Line	BB240	vrr=1	slipway/patent slip - partly submerged at high water
Line	BB240	vrr=4or8	slipway/patent slip - submerged, covers and uncovers
Line	FC031	mac=40or41	maritime area - TSS
Line	FC031	mac=5	maritime area - entry prohibited
Line	FC041	tsp=2	traffic separation scheme (TSS) - outer boundary

DNC DNC **Display Priority** 7 **BB040** vrr=1breakwater/groyne - partly submerged at high water Area breakwater/groyne - submerged, covers and uncovers **BB040** vrr=4or8 Area BB140 Area vrr=1 jetty - partly submerged at high water BB140 vrr=4or8 jetty - submerged, covers and uncovers Area Area BB190 pier/wharf/quay Area **BB220** vrr=1 ramp (maritime) - partly submerged at high water Area **BB220** vrr=4or8 ramp (maritime) - submerged, covers and uncovers Display Priority 8 Point AL050 display sign Point AQ020 aerial cableway pylon/ski pylon Point AT040 power transmission pylon Point BB170 offshore loading facility Point BB170 cha=21 offshore loading facility - light Point BC010 beacon - base Point BC020 btc=0 AND ssc=0or85or999 buoy - default; type unknown BC020 btc=0 AND ssc=1 Point buoy - barrel; type unknown Point BC020 btc=0 AND ssc=10 buoy - pillar; type unknown BC020 Point btc=0 AND ssc=16 buoy - spar; type unknown Point BC020 btc=0 AND ssc=17 buoy - sphere; type unknown Point BC020 btc=0 AND ssc=6 buoy - conical; type unknown Point BC020 btc=0 AND ssc=7 buoy - can; type unknown btc=0 AND ssc=73 Point BC020 buoy - superbuoy; type unknown BC020 btc=10buoy - ODAS Point btc=4 Point BC020 buoy - LANBY Point BC020 btc=6 buoy - light float Point BC020 btc=7 AND ssc<>1 and <> 7 buoy - mooring; not barrel, not can Point BC020 btc=7 AND ssc=1 buoy - mooring; barrel BC020 Point btc=7 AND ssc=7 buoy - mooring;can Point BC070 light vessel/lightship Point BD110 cha=21 platform - lighted Point GA020 air obstruction light [DNC-specific] Line AQ010 aerial cableway lines/ski lift lines Line AQ040 bsc<>12 AND bot<>4and<>10and<>11 bridge/overpass/viaduct Line AQ040 bsc=12 OR bot=4or10or11 bridge/overpass/viaduct

isplay P	riority 8		
Line	AQ045		bridge span
Line	AQ113	loc=25	pipeline/pipe - above ground or over water
Line	AT030		power transmission line
Line	AT060		telephone line/telegraph line
Line	BE010	acc=1 AND crv=ssdc	depth curve - accurate; equals ssdc
Line	BE010	acc=2 AND crv=ssdc	depth curve - not accurate; equals ssdc
Line	BH010	loc=25	aqueduct - elevated
Line	BI040		sluice gate
Line	FC041	tsp=4	traffic separation scheme (TSS) - separation zone line
Area	AQ040	bsc<>12 AND bot<>4and<>10and<>11	bridge/overpass/viaduct
Area	AQ040	bsc=12 OR bot=4or10or11	bridge/overpass/viaduct
Area	AQ045		bridge span
Area	BC060		light sector
Area	BI030		lock

Area Area Area	BA030		
	BA060		island beach zone
Aica	DA010	smc<>84	ground surface element - not rocky
A ====	DA010	smc=84	ground surface element - not rocky
Area Area	DA010	SIIIC-04	barren ground
Area	SA050	spr=0	slope polygon - <= 3%
Area	SA050		slope polygon - > 3% and <= 10%
	SA050	spr=1 spr=2	slope polygon - > 10% and <= 15%
Area	SA050		slope polygon - > 15% and <= 20%
Area	SA050	spr=3 spr=4	slope polygon - > 20% and <= 30%
Area Area	SA050	spr=5	slope polygon - > 30% and <= 45%
Area	SA050	spr=6	slope polygon - > 45% and <= 60%
Area	SA050		slope polygon - > 60% and <= 85%
Area	SA050	spr=7	slope polygon - > 85%
	SA050	spr=8	
Area		spr=999	slope polygon - % unknown
play Pr			
Area	BH020		canal
Area	BH020	cda=2	canal - covered
Area	BH080	hyc<>8	lake/pond - not perennial
Area	BH140		river/stream
Area	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BH160		sebkha
Area	BH200		miscellaneous surface drainage feature
Area	BJ020		moraine
Area	DA005		asphalt lake
Area	DB170	ssc=0	sand dune/sand hills - unknown
Area	DB170	ssc=22	sand dune/sand hills - crescent
Area	DB170	ssc=26	sand dune/sand hills - lateral
Area	DB170	ssc=27	sand dune/sand hills - mounds
Area	DB170	ssc=28	sand dune/sand hills - ripple
Area	DB170	ssc=29	sand dune/sand hills - star

DTOP DTOP 2 **Display Priority** Line BH200 miscellaneous surface drainage feature Area AL020 built-up area AL020 Area built-up area AL105 Area settlement Area AL105 settlement AL135 native settlement Area AL135 native settlement Area Area BH090 land subject to inundation BH095 veg=0or56 Area marsh/swamp - no trees BH095 Area veg=16or19 marsh/swamp - palm, mangrove Area BH095 veg=24 marsh/swamp - deciduous Area BH095 veg=25or50 marsh/swamp - evergreen, mixed BJ030 Area glacier BJ065 Area ice shelf BJ100 snow field/ice field Area BJ110 Area tundra EA010 Area cropland Area EA030 nursery EA040 orchard/plantation Area EA050 Area vineyards Area EB010 grassland EB020 Area scrub/brush Area EC010 bamboo/cane EC020 Area oasis EC030 trees - deciduous, unknown Area veg=0or24 EC030 Area veg=25or50 trees - evergreen, mixed EC030 Area veg=52 trees - clearing Display Priority 3 Point AQ111 prepared raft or float bridge site Point AQ118 sharp curve(s) Point AQ120 steep grade BD100 Point pile/piling/post

rapids

waterfall

Point

Point

BH120

BH180

ОР			DTO
Display Pr	iority 3		
Point	EC020		oasis
Line	AL075		gallery
Line	AL155		overhead obstruction location
Line	AN010	exs<>0and<>28	railroad - other
Line	AN010	exs=0or28 AND ltn<2	railroad - operational, unknown/1 lane
Line	AN010	exs=0or28 AND ltn>1	railroad - operational, multiple lanes
Line	BH030		ditch
Line	BH100		moat
Line	BH120		rapids
Line	BH180		waterfall
Line	DB190		volcanic dike
Line	EA020		hedgerow
Area	AC030		settling basin/sludge pond
Area	AK170		swimming pool
Area	BA020		foreshore
Area	BA040		water (except inland)
Area	BB090		drydock
Area	BD100		pile/piling/post
Area	BH030		ditch
Area	BH030	cda⇔2	ditch - not covered
Area	BH030	cda=2	ditch - covered
Area	BH040		filtration beds/aeration beds
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH080		lake/pond
Area	BH080	hyc=8	lake/pond - perennial
Area	BH130		reservoir
Area	BH140	hyc=0or8	river/stream - perennial, unknown
Area	BH150		salt pan
Area	BH155		salt evaporator
Area	BJ070		pack ice
Area	BJ080		polar ice
Display Pr	iority 5		
Point	AM060		storage bunker/storage mound
Line	AK130		race track

			ALLENDIX		
DTOP	•				DTOP
Dis	splay Pric	ority 5			
	Area	AA010		mine	
	Area	AA012		quarry	
	Area	AB000		disposal site/waste pile	
	Area	AB010		wrecking yard/scrap yard	
	Area	AD030		substation/transformer yard	
	Area	AI020		mobile home/mobile home park	
	Area	AJ030		feedlot/stockyard/holding pen	
-	Area	AK030		amusement park	
-	Area	AK040		athletic field	
-	Area	AK060		campground/campsite	
-	Area	AK090		fairgrounds	
- -	Area	AK100		golf course	
-	Area	AK120		park	
-	Area	AK160		stadium/amphitheater	
-	Area	AK180		zoo/safari park	
-	Area	AL030		cemetery	
-	Area	AL170		plaza/city square	
-	Area	AL200		ruins	
-	Area	AM010		depot (storage)	
-	Area	AM060		storage bunker/storage mound	
-	Area	AQ135		vehicle stopping area/rest area	
	Area	AQ140		vehicle storage/parking area	
Dis	splay Pric	ority 6			
•	Point	AA050	pro=116	well - water	
-	Point	BH145		river stream vanishing point	
-	Point	BH170		spring/water-hole	
- - -	Point	BI010		cistern	
- - -	Line	BA010	slt=6or8	coastline/shoreline - mangrove, marsh	
-	Line	BB220		ramp (maritime)	
- - -	Line	BH010	loc<>25	aqueduct - not elevated	
	Line	BH020	hyc=0or8	canal - perennial	
	Line	BH020	hyc=3	canal - dry	
- -	Line	BH060	loc<>25	flume - not elevated	
- -	Line	BH110	loc<>25	penstock - not elevated	

play Pr	riority 6		
Line	BH140	hyc=0or8	river/stream - perennial, unknown
Line	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BB220		ramp (maritime)
Area	BH020	cda⇔2	canal - not covered
Area	BI020		dam/weir
Area	BI030		lock
Area	BI050		water intake tower
Area	FA070		demilitarized zone
Area	FA170		zone of occupation
play Pr	riority 7		
Point	AD020	9	solar panels
Point	AL195		ramp
Point	AQ045		bridge span
Point	AQ070		ferry crossing
Point	BB010		anchorage
Point	BH070		ford
Point	BJ060		ice peak/nunatak
Point	DB030		cave
Point	DB115		geothermal feature
Point	DB150		mountain pass
Point	DB160		rock strata/rock formation
Point	DB180		volcano
Line	AL060		dragon teeth
Line	AL070		fence
Line	AL260		wall
Line	AP010		cart track
Line	AP050		trail
Line	AQ070		ferry crossing
Line	AQ113	pro<>116	pipeline/pipe - not water
Line	AQ113	pro=116	pipeline/pipe - water
Line	BA010	slt<>6and<>8	coastline/shoreline - not mangrove or marsh
Line	BB040		breakwater/groyne
Line	BB140		jetty
Line	BB190		pier/wharf/quay

Р			
isplay P	riority 7		
Line	BB230		seawall
Line	BH070		ford
Line	BJ040		ice cliff
Line	DB010		bluff/cliff/escarpment
Line	DB060	mcc=0or30	crevice/crevasse - earthen
Line	DB060	mcc=103	crevice/crevasse - snow/ice
Line	DB070		cut
Line	DB080		depression
Line	DB090		embankment/fill
Line	DB100		esker
Line	DB110		fault
Line	DB145		miscellaneous obstacle
Line	FA090		geophysical prospecting grid
Area	AC000		processing plant/treatment plant
Area	AD010		power plant
Area	AH050		fortification
Area	AL060		dragon teeth
Area	AL140		particle accelerator
Area	AQ116		pumping station
Area	AT050		communication building
Area	BB010		anchorage
Area	BB040		breakwater/groyne
Area	BB140		jetty
Area	BB190		pier/wharf/quay
Area	BD120		reef
Area	DB060		crevice/crevasse
Area	DB145		miscellaneous obstacle
Area	DB160		rock strata/rock formation
isplay P	riority 8		
Point	AA010		mine
Point	AA012		quarry
Point	AA040		rig/superstructure
Point	AA050	pro<>116	well - not water
Point	AC000		processing plant/treatment plant

DTOP

Point AC020 catalytic cracker Point AD030 substation/transformer yard Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or 59or69or70or83or85or86or87or88or89	•
Point AD030 substation/transformer yard Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	l
Point AF040 crane Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AF070 flare pipe Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AH050 fortification Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AJ050 windmill Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AK020 amusement park attraction Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36or53or building - generic	
Point AL015 bfc=0or1or4or9or10or11or16or17or18or19or20or21 building - generic or22or23or24or25or26or27or29or30or33or36or53or	
or22or23or24or25or26or27or29or30or33or36or53or	
37010701/00183018301800187	
Point AL015 bfc=15 building - school	
Point AL015 bfc=2or3or5or8or12or13or14or28or31or35or37or61 building - generic or66or77or96	
Point AL015 bfc=6 building - hospital	
Point AL015 bfc=7 building - house of worship)
Point AL015 bfc=82 building - lighthouse	
Point AL015 bfc=90or91or92or93or95or98or999 building - generic	
Point AL025 cairn	
Point AL030 cemetery	
Point AL075 gallery	
Point AL100 hut	
Point AL130 monument	
Point AL155 overhead obstruction location	on
Point AL200 ruins	
Point AL210 snow shed/rock shed	
Point AL240 tower (non-communication)
Point AL250 underground dwelling	
Point AM020 grain bin/silo	
Point AM030 grain elevator	
Point AM070 tank	
Point AM080 water tower	
Point AN075 railroad turntable	
Point AQ040 bridge/overpass/viaduct	

DTOP

isplay Pı	riority 8		
Point	AQ058		constriction/expansion
Point	AQ060		control tower
Point	AQ065		culvert
Point	AQ110		mooring mast
Point	AQ116		pumping station
Point	AQ130		tunnel
Point	AT010		disk/dish
Point	AT050		communication building
Point	AT080		communication tower
Point	BD130		rock
Point	BD180		wreck
Point	BI020		dam/weir
Point	BI030		lock
Point	BI040		sluice gate
Point	BI050		water intake tower
Point	CA030	ela<>1	spot elevation - not accurate
Point	CA030	ela=1	spot elevation - accurate
Point	GB005	exs<>28	airport/airfield - not operational
Point	GB005	use<>8and<>22 AND exs=28	airport/airfield - non military; operational
Point	GB005	use=8or22 AND exs=28	airport/airfield - military; operational
Point	GB010		airport lighting
Point	GB030		helicopter landing pad
Point	ZB030		boundary monument
Point	ZB035		control point/control station
Line	AF020		conveyor
Line	AL015	bfc⇔6and⇔7and⇔15	building - generic
Line	AL015	bfc=15	building - school
Line	AL015	bfc=6	building - hospital
Line	AL015	bfc=7	building - house of worship
Line	AL210		snow shed/rock shed
Line	AN050	rgc⇔2	railroad siding/railroad spur - normal,broad,unknown
Line	AN050	rgc=2	railroad siding/railroad spur - narrow
Line	AP020		interchange
Line	AP030	rst=0 OR wtc=0	road - unknown surface and weatherability

DTOP

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Display P	riority 8		
Line	AP030	rst=2 AND wtc=2	road - loose surface, fair/dry/winter
Line	AP030	wtc=1 AND exs<>28 AND med<>1 AND rst=1	road - non-operational, hard surface
Line	AP030	wtc=1 AND exs<>28 AND med<>1 AND rst=2	road - non-operational, loose surface
Line	AP030	wtc=1 AND exs<>28 AND med=1 AND rst=1	road - non-operational, hard surface, national/state
Line	AP030	wtc=1 AND exs<>28 AND med=1 AND rst=2	road - non-operational, loose surface, with median
Line	AP030	wtc=1 AND exs=28 AND med<>1 AND rst=1	road - operational, hard, private/other
Line	AP030	wtc=1 AND exs=28 AND med<>1 AND rst=2	road - operational - loose surface
Line	AP030	wtc=1 AND exs=28 AND med=1 AND rst=1	road - operational, hard surface, national/state
Line	AP030	wtc=1 AND exs=28 AND med=1 AND rst=2	road - operational, loose surface, with median
Line	AQ010		aerial cableway lines/ski lift lines
Line	AQ040		bridge/overpass/viaduct
Line	AQ130		tunnel
Line	AT030		power transmission line
Line	AT060		telephone line/telegraph line
Line	BD120		reef
Line	BH010	loc=25	aqueduct - elevated
Line	BH060	loc=25	flume - elevated
Line	BH110	loc=25	penstock - elevated
Line	BI020		dam/weir
Line	BI040		sluice gate
Line	FA000	use=0or26	administrative boundary - primary, unknown
Line	FA000	use=23	administrative boundary - international
Line	FA020		armistice line
Line	FA030		cease-fire line
Line	FA060		defacto boundary
Line	FA110		international date line
Area	AL015	bfc<>6and<>7and<>15	building - generic
Area	AL015	bfc=15	building - school
Area	AL015	bfc=6	building - hospital
Area	AL015	bfc=7	building - house of worship
Area	AM020		grain bin/silo
Area	AM030		grain elevator
Area	AM070		tank
Area	AN060		railroad yard/marshaling yard

		DTO
riority 8		
GB005	airport/airfield	
GB015	apron/hardstand	
GB045	overrun/stopway	
GB055	runway	
GB075	taxiway	
	GB005 GB015 GB045 GB055	GB005 airport/airfield GB015 apron/hardstand GB045 overrun/stopway GB055 runway

void collection area

ZD020

Area

<u> </u>			
Display P	riority		
Line	CA010	hqc=6	contour line (land) - intermediate depression
Display P	riority 0		
Area	BA030		island
Display P	riority 1		
Area	BH080	hyc=3	lake/pond - dry
Area	BH140	hyc=3or6	river/stream - dry, non-perennial
Display P	riority 2		
Area	AL020		built-up area
Area	AL105		settlement
Area	AL135		native settlement
Area	BH090		land subject to inundation
Area	BH095		marsh/swamp
Area	BH135		rice field
Area	EA040		orchard/plantation
Area	EC030	tre=0or1	trees - deciduous, unknown
Area	EC030	tre=2or3	trees - evergreen, mixed
Display P	riority 3		
Area	AC030		settling basin/sludge pond
Area	BA040		water (except inland)
Area	BH020	hyc<>8	canal - non-perennial, dry, unknown
Area	BH020	hyc=8	canal - perennial
Area	BH030		ditch
Area	BH040		filtration beds/aeration beds
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH080	hyc=0or8	lake/pond - perennial, unknown
Area	BH130		reservoir
Area	BH140	hyc=0or8	river/stream - perennial, unknown
Area	BH155		salt evaporator
Display P	riority 6		
	BH010	loc<>25	aqueduct - not elevated
Line	-	1 0	
Line	BH020	hyc<>8	canal - not perennial

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Display Prio	ority 6		
Line	BH140	hyc=0or8	river/stream - perennial, unknown
Line	BH140	hyc=3or6	river/stream - dry, non-perennial
Area	BI020		dam/weir
Area	BI030		lock
Area	FA001		administrative area
Display Prio	ority 7		
Point	AQ070		ferry crossing
Point	BH070		ford
Line	AP010		cart track
Line	AP050		trail
Line	AQ070		ferry crossing
Line	BA010	acc<>1	coastline/shoreline - not accurate
Line	BA010	acc=1	coastline/shoreline - accurate
Line	BB190		pier/wharf/quay
Line	BH070		ford
Area	BB190		pier/wharf/quay
Display Prio	ority 8		
Point	AQ040		bridge/overpass/viaduct
Point	AQ130		tunnel
Point	BI020		dam/weir
Point	BI030		lock
Point	CA030	ela<>1	spot elevation - not accurate
Point	CA030	ela=1	spot elevation - accurate
Point	GB005	exs<>28	airport/airfield - non-operational
Point	GB005	use<>8and<>22 AND exs=28	airport/airfield - civilian, operational
Point	GB005	use=8or22 AND exs=28	airport/airfield - military, operational
Point	GB035		heliport
Point	GB065		seaplane base
Line	AN010	exs<>0and<>28 AND rgc<>2	railroad - non-operational, normal/broad/unknown
Line	AN010	exs<>0and<>28 AND rgc=2	railroad - non-operational, narrow
Line	AN010	exs=0or28 AND rgc<>2	railroad - operational, normal/broad/unknown
Line	AN010	exs=0or28 AND rgc=2	railroad - operational, narrow
Line	AN050	rgc<>2	railroad siding/railroad spur - normal/broad/unknown

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isplay Pri	ority 8		
Line	AN050	rgc=2	railroad siding/railroad spur - narrow
Line	AP030	rst=0 OR wtc=0	road - unknown surface and weatherability
Line	AP030	rst=2 AND wtc=2	road - loose surface, fair/dry/winter
Line	AP030	wtc=1 AND exs<>28 AND med<>1 AND rst=1	road - non-operational, hard surface
Line	AP030	wtc=1 AND exs<>28 AND med<>1 AND rst=2	road - non-operational, loose surface
Line	AP030	wtc=1 AND exs<>28 AND med=1 AND rst=1	road - non-operational, hard surface, national/state
Line	AP030	wtc=1 AND exs<>28 AND med=1 AND rst=2	road - non-operational, loose surface, with median
Line	AP030	wtc=1 AND exs=28 AND med<>1 AND rst=1	road - operational, hard surface, private/other
Line	AP030	wtc=1 AND exs=28 AND med<>1 AND rst=2	road - operational - loose surface
Line	AP030	wtc=1 AND exs=28 AND med=1 AND rst=1	road - operational, hard surface, national/state
Line	AP030	wtc=1 AND exs=28 AND med=1 AND rst=2	road - operational, loose surface, median
Line	AQ040		bridge/overpass/viaduct
Line	AQ130		tunnel
Line	BE015		depth contour
Line	BH010	loc=25	aqueduct - elevated
Line	BI020		dam/weir
Line	CA010	hqc=0or1	contour line (land) - index, unknown
Line	CA010	hqc=2	contour line (land) - intermediate
Line	CA010	hqc=5	contour line (land) - depression
Line	FA000	use=0or26	administrative boundary - primary, unknown
Line	FA000	use=23	administrative boundary - international
Line	FA020		armistice line
Line	FA030		cease-fire line
Line	FC021	mbl=0	maritime limit boundary - unknown
Line	FC021	mbl=9	maritime limit boundary - international (at sea)
Area	AL045		complex outline
Area	AN060		railroad yard/marshalling yard
Area	GB005		airport/airfield
Area	GB035		heliport
Area	GB055		runway
Area	GB065		seaplane base
Area	ZD020		void collection area

Display F			
Area	ZD020		void collection area
Display F	Priority 3		
Area	FC031	mac=141or142or155	maritime area - caution areas
Display F	Priority 4		
Area	FC031	mac=156	maritime area - safety lane
Area	FC031	mac=27or28or115or116or140or146or147or150or15 lor152or153or157or159	maritime area - military practice areas
Area	GA005	aua=0or20or36or998	air lanes/corridors
Area	GA005	aua=13	airspace - flight information region
Area	GA005	aua=2	airspace - air defense zone
Area	GA005	aua=39	airspace - upper control area
Area	GA005	aua=40	airspace - upper flight information region
Area	GA005	aua=9or21or22or23or34or46or70	airspace - controlled
Area	GA015	aul=0or5or6	special use airspace - warning area
Area	GA015	aul=2or3	special use airspace - prohibited,restricted
Display F	Priority 5		
Point	BG010	cur=0 OR dof=0	current flow - general; direction unknown
Point	BG010	cur=5 AND dof<>0	current flow - ocean; direction known
Point	GA035	nst=0	navaids (aeronautical) - unknown
Point	GA035	nst=17	navaids (aeronautical) - NDB
Point	GA035	nst=20	navaids (aeronautical) - VOR
Point	GA035	nst=21	navaids (aeronautical) - VOR/DME
Point	GA035	nst=22	navaids (aeronautical) - VORTAC
Point	GA035	nst=23	navaids (aeronautical) - TACAN
Point	GA055	wpt<>10	waypoint/reporting-calling in point - non compulsory
Point	GA055	wpt=10	waypoint/reporting-calling in point - compulsory
Point	ZB035		control point/control station
Line	FC021	mbl<>6	maritime limit boundary - other
Line	FC021	mbl=6	maritime limit boundary - limit of territorial waters
Line	FC101		theodolite line
Line	FC102		range center line
Area	FC031	mac=0or144or145or154or999	maritime area - restricted areas
Area	FC031	mac=101	maritime area - marine sanctuary
Area	FC031	mac=104	maritime area - major op area

		ALLEN	
D Level	0		TOD Level
Display P	riority 5		
Area	FC031	mac=105	maritime area - minor op area
Area	FC031	mac=106	maritime area - ASW area
Area	FC031	mac=107	maritime area - submarine op area
Area	FC031	mac=108	maritime area - submarine traffic lane submerged
Area	FC031	mac=109	maritime area - submarine traffic lane surface
Area	FC031	mac=110	maritime area - surface traffic lane
Area	FC031	mac=114	maritime area - sea test range
Area	FC031	mac=143or148or149or158	maritime area - military area, minefield
Area	FC036		restricted area
Display P	riority 6		
Area	FC170		safety fairway
D Level	1		TOD Level
Display P	riority 0		
Area	ZD020		void collection area
Display P	riority 1		
Area	BE019	cvl=-32767	depth area - depth unknown
Area	BE019	cvl>=0and<200	depth area - depth less than 200m
Area	BE019	cvl>=200	depth area - depth greater than 200m
Area	BE030		track swath
Display P	riority 4		
Point	BD005	exs=57	miscellaneous underwater feature - sonar confirmed
Point	BD005	exs=58	miscellaneous underwater feature - reported
Point	BD180	exs=57	wreck - sonar confirmed
Point	BD180	exs=58	wreck - reported
Display P	riority 5		
Line	BE015	acc=1 AND crv<>ssdc	depth contour - accurate; not equal ssdc
Line	BE015	acc=2 AND crv<>ssdc	depth contour - not accurate; not equal ssdc
Display P	riority 6		•
Point	BE020	acc⇔1	sounding - circle (light) indicating low accuracy
Line	BE040		track line
			uuck iiile
Display P		200=1 AND 200=	double contains accounts and beauti
Line	BE015	acc=1 AND crv=ssdc	depth contour - accurate; equals ssdc
Line	BE015	acc=2 AND crv=ssdc	depth contour - not accurate; equals ssdc

D Level	2		TOD Lev
Display P	riority 0		
Area	ZD020		void collection area
Display P	riority 1		
Area	BE019	cvl=-32767	depth area - depth unknown
Area	BE019	cvl>=0and<200	depth area - depth less than 200m
Area	BE019	cvl>=200	depth area - depth greater than 200m
Area	BE030		track swath
Display P	riority 4		
Point	BD005	exs=57	miscellaneous underwater feature - sonar confirmed
Point	BD005	exs=58	miscellaneous underwater feature - reported
Point	BD180	exs=57	wreck - sonar confirmed
Point	BD180	exs=58	wreck - reported
Display P	riority 5		
Line	BE015	acc=1 AND crv<>ssdc	depth contour - accurate; not equal ssdc
Line	BE015	acc=2 AND crv<>ssdc	depth contour - not accurate; not equal ssdc
Display P	riority 6		
Point	BE020	acc<>1	sounding - circle (light) indicating low accuracy
Line	BE040		track line
Display P	riority 8		
Line	BE015	acc=1 AND crv=ssdc	depth contour - accurate; equals ssdc
Line	BE015	acc=2 AND crv=ssdc	depth contour - not accurate; equals ssdc

		ALLEN	71X 1
D Level	4		TOD Lev
Display P	riority 0		
Area	BE019	cvl=-32767	depth area - depth unknown
Area	BE019	cvl>=0and<123	depth area - depth less than 123m
Area	BE019	evl>=123	depth area - depth greater than 123m
Display P	riority 1		
Area	FC179		side scan sonar coverage
Display P	riority 2		
Line	BE015	acc<>1 AND hqc<>1	depth contour - not accurate, not index
Line	BE015	acc<>1 AND hqc=1	depth contour - not accurate, index
Line	BE015	acc=1 AND hqc<>1	depth contour - accurate,not index
Line	BE015	acc=1 AND hqc=1	depth contour - accurate, index
Area	FC180	htc<>503and<>507and<>509	hull integrity test site bottom feature - hght not >2m,not slope>10 deg, not cable
Area	FC180	htc=503	hull integrity test site bottom feature - height $> 2m$
Display P	riority 3		
Line	FC180	htc<>507and<>509	hull integrity test site bottom feature - not cable, not slope > 10 degrees
Line	FC180	htc=507	hull integrity test site bottom feature - slope > 10 degrees
Line	FC180	htc=509	hull integrity test site bottom feature - cable
Area	FC178		hull integrity test area
Area	FC180	htc=507	hull integrity test site bottom feature - slope > 10 degrees
Area	FC180	htc=509	hull integrity test site bottom feature - cable
Display P	riority 4		
Point	BD005	wkt<>35	miscellaneous underwater feature - not obstruction
Point	BD005	wkt=35	miscellaneous underwater feature - obstruction
Point	BD180		wreck
Point	BF012		hull integrity test site core site
Point	FC180		hull integrity test site bottom feature
Display P	riority 5		
Point	BE020	acc<>1	sounding - circle (light) indicating low accuracy
Display P	riority 8		
Area	ZD020	4	void collection area

Іар			UV
Display Pr	iority 0		
Area	BA030		island
Area	BA050		beach
Display Pr	iority 1		
Area	BH080	hyc=3or6	lake/pond - dry, intermittent
Area	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BH160		sebkha
Area	DA005		asphalt lake
Area	DA010	mcc<>8and<>52and<>46and<>84and<>88	ground surface element - not rock, not lava, not sand
Area	DA010	mcc=46or84or8	ground surface element - boulders, gravel, rock
Area	DA010	mcc=52	ground surface element - lava
Area	DA010	mcc=88	ground surface element - sand
Area	DB170	ssc=0	sand dune/sand hills - unknown
Area	DB170	ssc=22	sand dune/sand hills - crescent
Area	DB170	ssc=26	sand dune/sand hills - lateral
Area	DB170	ssc=27	sand dune/sand hills - mounds
Area	DB170	ssc=28	sand dune/sand hills - ripple
Area	DB170	ssc=29	sand dune/sand hills - star
Area	DB170	ssc=30	sand dune/sand hills - transverse
Display Pr	iority 2		
Area	AL020		built-up area
Area	AL135		native settlement
Area	BH015		bog
Area	BH077		hummock
Area	BH090		land subject to inundation
Area	BH095		marsh/swamp
Area	EA010		cropland
Area	EA030		nursery
Area	EA040		orchard/plantation
Area	EA050		vineyards
Area	EA055		hops
Area	EB010		grassland
Area	EB020		scrub/brush
Area	EC010		bamboo/cane

		Aili	
Иар			UV
Display P	riority 2		
Area	EC030	tre=0or1or3	trees - deciduous, mixed, unknown
Area	EC030	tre=2	trees - evergreen
Area	EE000		miscellaneous vegetation
Display P	riority 3		
Line	EA020		hedgerow
Area	AC030		settling basin/sludge pond
Area	AK170		swimming pool
Area	AQ130		tunnel
Area	BA020		foreshore
Area	BA040		water (except inland)
Area	BB090		drydock
Area	BH020	exs<>32 OR hyc<>8	canal - not navigable or not perennial
Area	BH020	exs=32 AND hyc=8	canal - navigable; perennial
Area	BH030		ditch
Area	BH040		filtration beds/aeration beds
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH080	hyc=0or8	lake/pond - perennial, unknown
Area	BH100		moat
Area	BH130		reservoir
Area	BH140	hyc=0or8	river/stream - perennial, unknown
Area	BH150		salt pan
Area	BH155		salt evaporator
Area	DB200		gully/gorge
Display P	riority 5		
Point	AM010		depot (storage)
Point	AM060		storage bunker/storage mound
Line	AK130		race track
Area	AA010		mine
Area	AA012		quarry
Area	AB000		disposal site/waste pile
Area	AB010		wrecking yard/scrap yard
Area	AD030		substation/transformer yard
Area	AI020		mobile home/mobile home park

		· · · ·	ENDIX F
/Map			UVMa
Display P	riority 5		
Area	AJ030		feedlot/stockyard/holding pen
Area	AK030		amusement park
Area	AK040		athletic field
Area	AK060		campground/campsite
Area	AK070		drive in theater
Area	AK090		fairgrounds
Area	AK100		golf course
Area	AK110		grandstand
Area	AK120		park
Area	AK160		stadium/amphitheater
Area	AK180		zoo/safari park
Area	AL030		cemetery
Area	AL170		plaza/city square
Area	AL200		ruins
Area	AM010		depot (storage)
Area	AM040		mineral pile
Area	AM060		storage bunker/storage mound
Area	AQ140		vehicle storage/parking area
Display P	riority 6		
Point	AA050	pro=116	well - water
Point	AL135		native settlement
Point	BG010		current flow
Point	BH010		aqueduct
Point	BH075		fountain
Point	BH170		spring/water-hole
Point	BI010		cistern
Line	AQ113	loc=4 AND pro<>116	pipeline/pipe - underground; not water
Line	AQ113	loc=4 AND pro=116	pipeline/pipe - undergound; water
Line	BH010	loc<>25	aqueduct - not elevated
Line	BH020	hyc<>8	canal - not perennial
Line	BH020	hyc=8	canal - perennial
Line	BH030	hyc=0or8	ditch - perennial, unknown
Line	BH030	hyc=6	ditch - intermittent
Line	BH060	loc<>25	flume - not elevated

/Мар			UVM
Display P	riority 6		
Line	BH110	loc<>25	penstock - not elevated
Line	BH140	hyc=0or8	river/stream - perennial, unknown
Line	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BH075		fountain
Area	BH165		spillway
Area	BI020		dam/weir
Area	BI030		lock
Area	BI050		water intake tower
Area	FA001		administrative area
Area	FA070		demilitarized zone
Display P	riority 7		
Point	AL120		missile site
Point	AQ070		ferry crossing
Point	AQ125		station (miscellaneous)
Point	AT020		early warning radar site
Point	BH070		ford
Point	DB030		cave
Line	AL070		fence
Line	AL120		missile site
Line	AL260		wall
Line	AP010		cart track
Line	AP050		trail
Line	AQ070		ferry crossing
Line	AQ113	loc<>4 AND pro<>116	pipeline/pipe - on or above ground; not water
Line	AQ113	loc<>4 AND pro=116	pipeline/pipe - on or above ground; water
Line	AT020		early warning radar site
Line	BA010	slt<>6and<>8	coastline/shoreline - not mangrove or marsh
Line	BA010	slt=6or8	coastline/shoreline - mangrove, marsh
Line	BB040		breakwater/groyne
Line	BB140		jetty
Line	BB190		pier/wharf/quay
Line	BB230		seawall
Line	BB240		slipway/patent slip
Line	BH070		ford

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Display P	riority 7	,	
Line	BH210	slt=0or10or11or13or14or15	inland shoreline - unknown, rocky, rubble, sandy, stony, other
Line	BH210	slt=6or8	inland shoreline - mangrove, marsh
Line	DB010		bluff/cliff/escarpment
Line	DB070		cut
Line	DB090		embankment/fill
Line	DB110		fault
Line	EC040		cleared way/cut line/firebreak
Area	AC000		processing plant/treatment plant
Area	AD010		power plant
Area	AF030		cooling tower
Area	AH010		bastion/rampart/fortification
Area	AH050		fortification
Area	AH060		underground bunker
Area	AL120		missile site
Area	AL140		particle accelerator
Area	AL250		underground dwelling
Area	AM080		water tower
Area	AQ116		pumping station
Area	AQ125		station (miscellaneous)
Area	AT010		disk/dish
Area	AT020		early warning radar site
Area	AT045		radar transmitter
Area	AT050		communication building
Area	BB040		breakwater/groyne
Area	BB140		jetty
Area	BB190		pier/wharf/quay
Area	DB030		cave
Area	DB090		embankment/fill
Area	FA015		firing range/gunnery range
Display P	riority 8	3	
Point	AA010		mine
Point	AA012		quarry
Point	AA040		rig/superstructure

UVMap UVMap Display Priority 8 Point AA050 pro<>116 well - not water Point AC020 catalytic cracker Point AD030 substation/transformer yard Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane AF070 Point flare pipe Point AH010 bastion/rampart/fortification AH050 Point fortification Point AH060 underground bunker Point AJ050 windmill Point AK020 amusement park attraction Point AK150 ski jump Point AL015 bfc=0or4or9or10or11or16or17or18or19or20or33or3 building - generic (population) 4or36or39or51or53or55or56or57or58 AL015 Point bfc=15or60or108 building - school, college, seminary Point AL015 bfc=1or21or22or23or24or25or26or27or29or30or40 building - generic (industry) or54or59or71or72or73or74or75or76 Point AL015 bfc=2or3or5or8or12or13or14or28or31or35or37or38 building - government or52or61or62or64or65or66or67or77or78or79or80or 96or101or119or121or123or723 Point AL015 bfc=63or69or70or87or88or91or92or93or95or97or9 building - generic (population) 8or99or103or105or106or107or109or111or115or117 or118or122or126or127or128or999 AL015 bfc=6or100 Point building - hospital Point AL015 bfc=7or114 AND hwt=0or2or3or4or7 OR bfc=50 building - house of worship Point AL015 bfc=7or114 AND hwt=11or14or15or16 building - house of worship Point AL015 bfc=7or114 AND hwt=20 building - house of worship Point AL015 bfc=7or114 AND hwt=21 building - house of worship AL015 bfc=7or114 AND hwt=5or6or9 Point building - house of worship Point AL015 bfc=81or83or84or85or86or89or90or94or102or104o building - generic (industry) r110or112or113or116or120or124or125 Point AL015 bfc=82 building - lighthouse Point AL030 cemetery Point AL100 hut

monument

ruins

Point

Point

AL130

AL200

UVMap UVMap Display Priority 8 Point AL240 tower (non-communication) AL250 Point underground dwelling Point AM020 grain bin/silo AM030 Point grain elevator Point AM070 tank Point AM080 water tower Point AP040 gate Point AQ040 bridge/overpass/viaduct Point AQ060 control tower Point AQ090 entrance/exit Point AQ110 mooring mast Point AQ116 pumping station Point AT010 disk/dish Point AT040 power transmission pylon Point AT045 radar transmitter Point AT050 communication building Point AT070 telephone-telegraph pylon/pole Point AT080 communication tower Point BC050 lighthouse Point BH165 spillway Point BI040 sluice gate Point BI050 water intake tower Point CA030 ela<>1 spot elevation - not accurate Point CA030 ela=1 spot elevation - accurate Point FA015 firing range/gunnery range Point **GB005** exs<>28 airport/airfield - not operational Point **GB005** use<>8and<>22 AND exs=28 airport/airfield - non military; operational Point **GB005** use=8or22 AND exs=28 airport/airfield - military; operational Point GB010 airport lighting GB030 Point helicopter landing pad Point ZB020 benchmark Point ZB035 control point/control station Line AA010 mine Line AA012 quarry

UVMap

Display Priority 8

isplay P	riority 8		
Line	AF020		conveyor
Line	AH010		bastion/rampart/fortification
Line	AH050		fortification
Line	AH060		underground bunker
Line	AK150		ski jump
Line	AL015	bfc > 2and > 3and > 5and < 8and > 15and > 28and > 52and > 121and > 6and > 7and > 114and > 100a nd > 60and > 108	building - generic
Line	AL015	bfc=15or60or108	building - school
Line	AL015	bfc=2or3or5or8or28or52or121	building - government
Line	AL015	bfc=6or100	building - hospital
Line	AL015	bfc=7or114	building - house of worship
Line	AN010	exs<>0and<>28 AND rgc<>2	railroad -non-op, unkn/norml/brd
Line	AN010	exs<>0and<>28 AND rgc=2	railroad -non-op, narrow
Line	AN010	exs=0or28 AND rgc<>2	railroad -op, unkn/norml/brd
Line	AN010	exs=0or28 AND rgc=2	railroad -op, narrow
Line	AN050	rgc⇔2	railroad siding/railroad spur - normal,broad,unknown
Line	AN050	rgc=2	railroad siding/railroad spur - narrow
Line	AP020		interchange
Line	AP030	rst=0 OR wtc=0	road - unknown surface and weatherability
Line	AP030	rst=2or3 AND wtc=2or3or4	road - loose surface, fair/dry/winter
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=1	road - non-operational, hard surface
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3	road - non-operational, loose surface
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1	road - non-operational, hard surface, no median
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3	road - non-operational, loose surface, no median
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1	road - non-operational, hard surface, national/state
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3	road - non-operational, loose surface, with median
Line	AP030	wtc=1 AND exs=28 AND ltn<2 AND rst=1	road - operational, hard surface, private/other
Line	AP030	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3	road - operational - loose surface
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1	road - operational, hard surface, interstate/international
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3	road - operational, loose surface, no median
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=1	road - operational, hard surface, national/state

UVMap UVMap

Display P	Priority 8		
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3	road - operational, loose surface, with median
Line	AQ010		aerial cableway lines/ski lift lines
Line	AQ040		bridge/overpass/viaduct
Line	AQ065		culvert
Line	AQ130		tunnel
Line	AT030		power transmission line
Line	AT045		radar transmitter
Line	AT060		telephone line/telegraph line
Line	BH010	loc=25	aqueduct - elevated
Line	BH060	loc=25	flume - elevated
Line	BH110	loc=25	penstock - elevated
Line	BH165		spillway
Line	BI020		dam/weir
Line	BI040		sluice gate
Line	CA010	mcc<>103 AND hqc=0or1	contour line (land) - index
Line	CA010	mcc<>103 AND hqc=12	contour line (land) - intermediate approximate
Line	CA010	mcc<>103 AND hqc=14	contour line (land) - supplementary 1/4
Line	CA010	mcc<>103 AND hqc=2	contour line (land) - intermediate
Line	CA010	mcc<>103 AND hqc=3	contour line (land) - supplementary 1/2
Line	CA010	mcc<>103 AND hqc=5	contour line (land) - depression index
Line	CA010	mcc<>103 AND hqc=6	contour line (land) - intermediate depression
Line	CA010	mcc<>103 AND hqc=7	contour line (land) - index approximate
Line	CA010	mcc=103 AND hqc=0or1	contour line (snow\ice) - index unknown
Line	CA010	mcc=103 AND hqc=12	contour line (snow\ice) - intermediate approximate
Line	CA010	mcc=103 AND hqc=14	contour line (snow\ice) - supplementary 1/4
Line	CA010	mcc=103 AND hqc=2	contour line (snow\ice) - intermediate
Line	CA010	mcc=103 AND hqc=3	contour line (snow\ice) - supplementary 1/2
Line	CA010	mcc=103 AND hqc=5	contour line (snow\ice) - index depression
Line	CA010	mcc=103 AND hqc=6	contour line (snow\ice) - intermediate depression
Line	CA010	mcc=103 AND hqc=7	contour line (snow\ice) - index approximate
Line	FA000	use=0or26or999	administrative boundary - primary, unknown, other
Line	FA000	use=16	administrative boundary - city
Line	FA000	use=23	administrative boundary - international

UVMap UVMap Display Priority 8 Line FA015 firing range/gunnery range Line FA020 armistice line Line GB045 overrun/stopway Line **GB050** revetment (airfield) Line **GB055** runway Line GB075 taxiway Area AK130 race track Area AL015 bfc<>2and<>3and<>5and<>8and<>28and<>52and building - generic 121and<>15and<>6and<>7and<>114and<>100a nd<>60and<>108 Area AL015 bfc=15or60or108 building - school Area AL015 bfc=2or3or5or8or28or52or121 building - government AL015 bfc=6or100 building - hospital Area AL015 bfc=7or114 Area building - house of worship Area AL045 complex outline Area AL130 monument AM020 grain bin/silo Area AM030 grain elevator Area Area AM070 tank Area AN060 railroad yard/marshaling yard AN075 Area railroad turntable Area AP020 interchange exs=0or28or999 Area AP030 road - operational Area AP030 exs=5or6or7 road - non-operational AQ040 Area bridge/overpass/viaduct AQ065 Area culvert Area AQ150 flight of steps Area **GB005** airport/airfield Area GB015 apron/hardstand **GB030** Area helicopter landing pad Area **GB035** heliport Area GB045 overrun/stopway Area GB050 revetment (airfield) GB055 Area runway Area **GB075** taxiway

VITD VITD **Display Priority** 0 AN060 railroad yard/marshalling yard Area Area **BA030** island DA010 stp<>1and<>2and<>3and<>4and<>5and<>6and<> ground surface element - silts, clays, evaporites, Area 7and<>8and<>9 Area DA010 stp=1or2or3or4 ground surface element - gravels DA010 Area stp=5or6or7or8or9 ground surface element - sands Area DA020 barren ground SA010 Area common open water SA020 disturbed soil Area Area SA030 exposed bedrock SA050 slope polygon - % unknown Area gsc=0 SA050 slope polygon - 0 to >45%, dissected Area gsc=1 SA050 Area gsc=2 slope polygon - <= 3% Area SA050 gsc=3 slope polygon - > 3% and <= 10%SA050 slope polygon - > 10% and <= 20%Area gsc=4 SA050 slope polygon - > 20% and <= 30%Area gsc=5 SA050 slope polygon - > 30% and <= 45%Area gsc=6 Area SA050 gsc=7slope polygon - > 45% Display Priority hyc<>8 BH020 canal - not perennial Area BH020 hyc=8 canal - perennial Area BH140 hyc=0or8or14 river/stream - perennial, braided, unknown Area Area BH140 hyc=3or6 river/stream - dry, intermittent Display Priority 2 AL260 Line wall Line BI030 lock Line EA020 hedgerow Area AL020 built-up area Area BH090 land subject to inundation Area BH095 marsh/swamp BH135 Area rice field Area EA010 cropland Area EA040 orchard/plantation

vineyards

EA050

Area

isplay P	riority 2		
Area	EB010		grassland
Area	EB020		scrub/brush
Area	EC010		bamboo/cane
Area	EC030	veg=0or24or50	trees - unknown, deciduous, mixed
Area	EC030	veg=25	trees - evergreen
Area	EC030	veg=52	trees - forest clearing
Area	SA040		permanent snowfield
isplay P	riority 3		
Point	AQ070		ferry crossing
Point	AQ111		prepared raft or float bridge site
Point	AQ118		sharp curve(s)
Point	AQ130		tunnel
Line	AN010	exs<0and<>1	railroad - dismantled, under construction
Line	AN010	exs=0or1 AND fco<>0and<>3	railroad - definite, multi
Line	AN010	exs=0or1 AND fco=0or3	railroad - definite, unkn/single
Line	AN050	exs<>0and<>1	railroad siding/railroad spur - dismantled, under construction
Line	AN050	exs=0or1 AND rrc=0or1or5	railroad siding/railroad spur - normal/broad, definite
Line	AN050	exs=0or1 AND rrc=4	railroad siding/railroad spur - narrow, definite
Line	AN060		railroad yard/marshalling yard
Line	AP010		cart track
Line	AQ070		ferry crossing
Line	AQ111		prepared raft or float bridge site
Line	AQ130		tunnel
Line	BH100		moat
Line	DB010		bluff/cliff/escarpment
Line	DB070		cut
Line	DB090		embankment/fill
Line	DB190		volcanic dike
Line	DB200		gully/gorge
Line	SA060		covered drainage
Area	DB080		depression
Area	DB200		gully/gorge

iority 4		
GB055		runway
iority 5		
BI020		dam/weir
BI020		dam/weir
GB055		runway
iority 6		
BH020		canal
BH140	hyc=0or8or14	river/stream - perennial, braided, unknownn
BH140	hyc=3or6	river/stream - dry, intermittent
iority 7		
AL195		ramp
AQ040		bridge/overpass/viaduct
AQ045		bridge span
BH070		ford
BI030		lock
AL060		dragon teeth
AQ040		bridge/overpass/viaduct
AQ113		pipeline/pipe
BH070		ford
AL060		dragon teeth
iority 8		
AQ058	wd1<40	constriction/expansion
AQ058	wd1=40	constriction/expansion
AP030	rst=0 OR wtc=0	road - unknown surface and weatherability
AP030	rst=2 AND wtc=2	road - loose surface, fair/dry/winter
AP030	wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=1	road - non-operational, hard surface
AP030	wtc=1 AND exs<>1 AND fco<>5and<>6 AND rst=2	road - non-operational, loose surface
AP030	wtc=1 AND exs<>1 AND fco=5or6 AND rst=1	road - non-operational, hard surface, national/state
AP030	wtc=1 AND exs<>1 AND fco=5or6 AND rst=2	road - non-operational, loose surface, with median
AP030	wtc=1 AND exs=1 AND fco<>5and<>6 AND rst=1	road - operational, hard surface, private/other
AP030	wtc=1 AND exs=1 AND fco<>5and<>6 AND rst=2	road - operational - loose surface
	GB055 BI020 BI020 GB055 GB055 GOTITY 6 BH020 BH140 BH140 BH140 BH140 AQ045 BH070 BI030 AL060 AQ040 AQ113 BH070 AL060 AQ040 AQ113	Bio20

VITD				VITD
Display F	Priority 8			
Line	AP030	wtc=1 AND exs=1 AND fco=5or6 AND rst=2	road - operational, loose surface, median	

p Leve			VMap Le
Area	DA010	smc<>52and<>88	ground surface element - not lava, not sand
Area	DA010	smc=52	ground surface element - lava
Area	DA010	smc=88	ground surface element - sand
isplay P	riority 2		
Line	EA020		hedgerow
Area	AL020		built-up area
Area	AL135		native settlement
Area	BH015		bog
Area	BH077		hummock
Area	BH090		land subject to inundation
Area	BH095		marsh/swamp
Area	BH135		rice field
Area	BJ065		ice shelf
Area	BJ100		snow field/ice field
Area	BJ110		tundra
Area	EA010		cropland
Area	EA030		nursery
Area	EA040		orchard/plantation
Area	EA050		vineyards
Area	EB010		grassland
Area	EB020		scrub/brush
Area	EC010		bamboo/cane
Area	EC020		oasis
Area	EC030	veg=0or24or50or999	trees - unknown, deciduous, mixed, other
Area	EC030	veg=11or12or17or18or25or29or38	trees - casuarina, coniferous, palm, filao, evergreen eucalyptus, cypress
isplay P	riority 3		
Point	BH120		rapids
Point	BH155		salt evaporator
Point	BH180		waterfall
Area	BA040		water (except inland)
Area	BH000		inland water
Area	BH050		fish hatchery/fish farm/marine farm

isplay P	riority 3	Ī	
Area	BJ070		pack ice
Area	BJ080		polar ice
Area	EC030	veg=16or19	trees - nipa palm, mangrove
isplay P			
Point	AI030		camp
Point	AM010		depot (storage)
Area	AA010		mine/quarry
Area	AA052		oil/gas field
Area	AK040		athletic field
Area	AK130		race track
isplay P	riority 6		
Point	AA050		well
Point	AL020		built-up area
Point	AL105		settlement
Point	AL135		native settlement
Point	BH170		spring/water-hole
Line	AQ113	loc=4	pipeline/pipe - underground
Line	BH000		inland water
Line	BH140	hyc=0or8	river/stream - perennial, unknown
Line	BH140	hyc=3or6	river/stream - dry, intermittent
Area	FA001		administrative area
Area	FA070		demilitarized zone
Area	FA170		zone of occupation
isplay P	riority 7		
Point	AD010		power plant
Point	AL260		wall
Point	AQ064		causeway
Point	AQ070		ferry crossing
Point	BA030		island
Point	BH070		ford
Point	SU001		military base
Line	AL260		wall

isplav P	 _	
	riority 7	
Line	AQ064	causeway
Line	AQ070	ferry crossing
Line	AQ113 loc=8	pipeline/pipe - on ground
Line	BA010	coastline/shoreline
Line	BB040	breakwater/groyne
Line	BB190	pier/wharf/quay
Line	BB230	seawall
Line	BH070	ford
Line	BJ040	ice cliff
Line	DB010	bluff/cliff/escarpment
Line	DB080	depression
Line	DB090	embankment/fill
Line	DB110	fault
Line	DB160	rock strata/rock formation
Line	EC040	cleared way/cut line/firebreak
Area	SU001	military base
isplay P	riority 8	
Point	AA010	mine/quarry
Point	AA052	oil/gas field
Point	AC000	processing plant/treatment plant
Point	AC040	oil/gas facilities
Point	AD030	substation/transformer yard
Point	AK160	stadium/amphitheater
		111.11
Point	AL015	building
Point Point	AL015 AL025	cairn
	AL025	
Point Point	AL025 AL130	cairn monument
Point Point Point	AL025 AL130 AL200	cairn monument ruins
Point Point Point Point	AL025 AL130 AL200 AL210	cairn monument
Point Point Point Point Point	AL025 AL130 AL200 AL210 AL240	cairn monument ruins snow shed/rock shed tower (non-communication)
Point Point Point Point Point Point Point	AL025 AL130 AL200 AL210 AL240 AM070	cairn monument ruins snow shed/rock shed tower (non-communication) tank
Point Point Point Point Point Point Point Point	AL025 AL130 AL200 AL210 AL240 AM070 AM080	cairn monument ruins snow shed/rock shed tower (non-communication) tank water tower
Point Point Point Point Point Point Point	AL025 AL130 AL200 AL210 AL240 AM070	cairn monument ruins snow shed/rock shed tower (non-communication) tank

VMap Level 0 VMap Level 0

splay Pr	riority 8		
Point	AQ130		tunnel
Point	AT050		communication building
Point	AT080		communication tower
Point	BC050		lighthouse
Point	BD130		rock
Point	BD180		wreck
Point	BI020		dam/weir
Point	BI030		lock
Point	BI040		sluice gate
Point	CA030	ela<>1	spot elevation - not accurate
Point	CA030	ela=1	spot elevation - accurate
Point	CA035		inland water elevation
Point	FA001		administrative area
Point	GB005	use<>8and<>22	airport/airfield - non military
Point	GB005	use=8or22	airport/airfield - military
Line	AL210		snow shed/rock shed
Line	AN010	exs<>28 AND fco<0and<>3	railroad -non-op, multi
Line	AN010	exs<>28 AND fco=0or3	railroad -non-op, unkn/single
Line	AN010	exs=28 AND fco<>0and<>3	railroad -op,multi
Line	AN010	exs=28 AND fco=0or3	railroad -op, unkn/single
Line	AP030	exs<>28 AND med<>1	road - non-operational
Line	AP030	exs<>28 AND med=1	road - non-operational, with median
Line	AP030	exs=28 AND med<>1	road - operational
Line	AP030	exs=28 AND med=1	road - operational, with median
Line	AQ010		aerial cableway lines/ski lift lines
Line	AQ040		bridge/overpass/viaduct
Line	AQ130		tunnel
Line	AT030		power transmission line
Line	AT060		telephone line/telegraph line
Line	BD000		underwater danger/hazard
Line	BD120		reef
Line	BE015		depth contour
Line	BI020		dam/weir
Line	CA010	hqc=0or2	contour line (land) - intermediate unknown

VMap Level 0 VMap Level 0

Display Priority 8			
Line	CA010	hqc=12	contour line (land) - intermediate approximate
Line	CA010	hqc=18	contour line (land) - intermediate depression approx
Line	CA010	hqc=19	contour line (land) - carrying contour (coincident)
Line	CA010	hqc=22or23	contour line (land) - supplemental depression
Line	CA010	hqc=4or13or20or21	contour line (land) - supplementary approx., carrying, form lines
Line	CA010	hqc=6	contour line (land) - depression intermediate
Line	FA000	use=23	administrative boundary - international
Line	FA000	use=26	administrative boundary - primary
Line	FA020		armistice line
Line	FA030		cease-fire line
Line	FA040		claim line
Line	FA050		mandate line/convention line
Line	FA060		defacto boundary
Line	FA110		international date line
Area	ZD020		void collection area

ap Leve			VMap Lev
Display P			
Area	BA030		island
Display P	riority 1		
Area	BH080	hyc=3or6	lake/pond - dry, intermittent
Area	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BH160		sebkha
Area	BJ020		moraine
Area	DA005		asphalt lake
Area	DA010	mcc<>8and<>52and<>88and<>46	ground surface element - not rock, not lava, not sand
Area	DA010	mcc=46or8	ground surface element - boulders, gravel
Area	DA010	mcc=52	ground surface element - lava
Area	DA010	mcc=88	ground surface element - sand
Area	DB170	ssc=0	sand dune/sand hills - unknown
Area	DB170	ssc=22	sand dune/sand hills - crescent
Area	DB170	ssc=26	sand dune/sand hills - lateral
Area	DB170	ssc=27	sand dune/sand hills - mounds
Area	DB170	ssc=28	sand dune/sand hills - ripple
Area	DB170	ssc=29	sand dune/sand hills - star
Area	DB170	ssc=30	sand dune/sand hills - transverse
Display P	riority 2		
Area	AL020		built-up area
Area	AL105		settlement
Area	AL135		native settlement
Area	BH015		bog
Area	BH090		land subject to inundation
Area	BH095		marsh/swamp
Area	BH135		rice field
Area	BJ030		glacier
Area	BJ065		ice shelf
Area	BJ100		snow field/ice field
Area	BJ110		tundra
Area	EA010		cropland
Area	EA040		orchard/plantation
Area Area	EA040 EA050		orchard/plantation vineyards

Display P	riority 2		
Area	EB010		grassland
Area	EC030	veg=0or24or50or999	trees - unknown, deciduous, mixed, other
Area	EC030	veg=11or12or17or18or29or38	trees - casuarina, coniferous, palm, filao, eucalyptus cypress
Display P	riority 3		
Point	BH120		rapids
Point	BH180		waterfall
Point	EC020		oasis
Line	BH120		rapids
Line	BH180		waterfall
Line	EC030		trees
Area	AC030		settling basin/sludge pond
Area	BA020		foreshore
Area	BA040		water (except inland)
Area	BH040		filtration beds/aeration beds
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH080	hyc=0or8	lake/pond - perennial, unknown
Area	BH130		reservoir
Area	BH140	hyc=0or8	river/stream - perennial, unknown
Area	BH150		salt pan
Area	BH155		salt evaporator
Area	BH190		lagoon/reef pool
Area	BJ070		pack ice
Area	BJ080		polar ice
Area	EC030	veg=16or19	trees - nipa palm, mangrove
Display P	riority 5	Ī	
Point	AQ135		vehicle stopping area/rest area
Area	AA010		mine/quarry
Area	AB000		disposal site/waste pile
Area	AK120		park
Area	AL200		ruins
Display P	riority 6		
Point	AA050	pro=116	well - water

spiay P	riority 6		
Point	BH010	1	aqueduct
Point	BH145		river stream vanishing point
Point	BH170		spring/water-hole
Point	BI010		cistern
Line	AQ113	loc=4 AND pro<>116	pipeline/pipe - underground; not water
Line	AQ113	loc=4 AND pro=116	pipeline/pipe - undergound; water
Line	BH010	loc<>25	aqueduct - not elevated
Line	BH020	hyc<>8	canal - not perennial
Line	BH020	hyc=8	canal - perennial
Line	BH030	hyc<>0and<>8	ditch - not perennial
Line	BH030	hyc=0or8	ditch - perennial, unknown
Line	BH060	loc<>25	flume - not elevated
Line	BH110	loc<>25	penstock - not elevated
Line	BH140	hyc=0or8	river/stream - perennial, unknown
Line	BH140	hyc=3or6	river/stream - dry, intermittent
Area	FA001		administrative area
Area	FA070		demilitarized zone
Area	FA170		zone of occupation
splay P	riority 7	Ī	
Point	AD010	4	power plant
Point	AL140		particle accelerator
Point	AQ070		ferry crossing
Point	BH070		ford
Point	BJ060		ice peak/nunatak
Point	DB030		cave
Point	DB115		geothermal feature
Point	DB150		mountain pass
Point	DB160		rock strata/rock formation
Line	AL070		fence
Line	AL260		wall
Line	AP010		cart track
	AP050		trail
Line	711 050		
Line Line	AQ070		ferry crossing

VMap Level 1 VMap Level 1

Line AQ113 loc≪4 AND pro=116 pipeline/pipe - on or above ground; water Line BA010 slt≪6ord coastline/shoreline - not mangrove or marsh Line BB040 breakwater/groyne Line BB140 vrr=0orl jetty - unknown, partly submerged at high water Line BB140 vrr=8 jetty - covers and uncovers Line BB190 pier/whart/quay Line BB1070 ford Line BB1070 ford Line BB040 ice cliff Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut line Line DB100 esker Line DB100 esker Line Fa090 geophy	Display P	riority 7	Ī	
Line BA010 slt=66r8 coastline/shoreline - mangrove, marsh Line BB040 vrr=0orl jetty - unknown, partly submerged at high water Line BB140 vrr=8 jetty - covers and uncovers Line BB190 pier/wharf/quay Line BB190 seawall Line BB1070 ford Line BB040 ice cliff Line BB060 mce=0or30 crevice/crevasse - carthen Line DB060 mce=103 crevice/crevasse - snow/ice Line DB070 cut cut Line DB090 embarkment/fill esker Line DB100 esker eleared way/cut line/firebreak Line DB100 geophysical prospecting grid area Area AC000 processing plant/treatment plant area Area AD010 power plant area Area AH050 fortification processing plant/treatment plant Area AB102 reef				pipeline/pipe - on or above ground; water
Line BB040 breakwater/groyne Line BB140 vrr=0or1 jetty - unknown, partly submerged at high water Line BB190 pietr/whart/quay Line BB190 seawall Line BB1070 ford Line BB040 ice cliff Line DB010 bluff/cliff/escarpment Line DB000 mcc=103 Line DB060 mcc=103 Line DB070 cut Line DB100 embankment/fill Line DB100 esker Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AH050 fortification Area BB190 piet/what/fujuay Area BD120 mine/quarry Point AA040 mine/quarr	Line	BA010	slt<>6and<>8	coastline/shoreline -not mangrove or marsh
Line BB140 vrr=0or1 jetty - covers and uncovers Line BB140 vrr=8 jetty - covers and uncovers Line BB190 pier/whart/quay Line BB230 seawall Line BB040 ice cliff Line BB040 ice cliff Line DB010 bluff/cliff/escarpment Line DB060 mcc=103 Line DB060 mcc=103 Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AH050 forrification Area BB190 pier/whart/quay Area BD120 reef Display Priorty 8 Point AA040 mine/quarry	Line	BA010	slt=6or8	coastline/shoreline - mangrove, marsh
Line BB140 vr=8 jetty - covers and uncovers Line BB190 pier/wharf/quay Line BB230 senwall Line BH070 ford Line BB040 ice cliff Line DB010 bluff?cliff?escarpment Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB100 esker Line EO40 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point <t< td=""><td>Line</td><td>BB040</td><td></td><td>breakwater/groyne</td></t<>	Line	BB040		breakwater/groyne
Line BB190 piet/whart/quay Line BB230 seawall Line BH070 ford Line BJ040 ice cliff Line DB010 bluff?clift?escarpment Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD10 power plant Area AB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA040 mine/quarry Point AA040 processing plant/treatment plant Point AF010	Line	BB140	vrr=0or1	jetty - unknown, partly submerged at high water
Line BB230 seawall Line BH070 ford Line BJ040 ice cliff Line DB010 bluff/cliff/escarpment Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB10 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AH050 fortification Area AB190 piet/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 processing plant/treatment plant Point AC000 processing plant/treatment plant Point	Line	BB140	vrr=8	jetty - covers and uncovers
Line BH070 ford Line BJ040 ice cliff Line DB010 bluff/cliff/escarpment Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD10 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA040 rig/superstructure Point AA050 pro<116 well - not water Point AP040 chimney/smokestack Point	Line	BB190		pier/wharf/quay
Line BJ040 ice cliff Line DB010 bluff/cliff/escarpment Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD10 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point	Line	BB230		seawall
Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant chimney/smokestack Point AF010 cooling tower Point AF040 crane Point AF070	Line	BH070		ford
Line DB060 mcc=0or30 crevice/crevasse - earthen Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA040 rig/superstructure Point AA050 pro<116	Line	BJ040		ice cliff
Line DB060 mcc=103 crevice/crevasse - snow/ice Line DB070 cut Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AB150 fortification Area BB190 pier/wharf/quay Area BD120 reef Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 proc>116 well - not water Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	DB010		bluff/cliff/escarpment
Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	DB060	mcc=0or30	crevice/crevasse - earthen
Line DB090 embankment/fill Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/whart/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	DB060	mcc=103	crevice/crevasse - snow/ice
Line DB100 esker Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	DB070		cut
Line DB110 fault Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area BB190 fortification Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro≪116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	DB090		embankment/fill
Line EC040 cleared way/cut line/firebreak Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF040 flare pipe	Line	DB100		esker
Line FA090 geophysical prospecting grid Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 processing plant/treatment plant Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF040 flare pipe	Line	DB110		fault
Area AC000 processing plant/treatment plant Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Line	EC040		cleared way/cut line/firebreak
Area AD010 power plant Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro \Leftrightarrow 116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 print AF040 Point AF040 crane Point AF070 flare pipe	Line	FA090		geophysical prospecting grid
Area AH050 fortification Area BB190 pier/wharf/quay Area BD120 reef Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF040 flare pipe	Area	AC000		processing plant/treatment plant
Area BB190 pier/wharf/quay Area BD120 reef Display Priority 8 Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Area	AD010		power plant
Area BD120 Point AA010 Point AA040 Point AA050 Point AC000 Point AC000 Point AF010 Point AF030 Point AF040 Point AF070 reef mine/quarry rig/superstructure well - not water processing plant/treatment plant chimney/smokestack cooling tower flare pipe	Area	AH050		fortification
Point AA010 mine/quarry Point AA040 rig/superstructure Point AA050 pro≪116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Area	BB190		pier/wharf/quay
PointAA010mine/quarryPointAA040rig/superstructurePointAA050pro≪116well - not waterPointAC000processing plant/treatment plantPointAF010chimney/smokestackPointAF030cooling towerPointAF040cranePointAF070flare pipe	Area	BD120		reef
PointAA040rig/superstructurePointAA050pro≪116well - not waterPointAC000processing plant/treatment plantPointAF010chimney/smokestackPointAF030cooling towerPointAF040cranePointAF070flare pipe	Display P	riority 8		
Point AA050 pro<>116 well - not water Point AC000 processing plant/treatment plant Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Point	AA010		mine/quarry
PointAC000processing plant/treatment plantPointAF010chimney/smokestackPointAF030cooling towerPointAF040cranePointAF070flare pipe	Point	AA040		rig/superstructure
Point AF010 chimney/smokestack Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Point	AA050	pro<>116	well - not water
Point AF030 cooling tower Point AF040 crane Point AF070 flare pipe	Point	AC000		processing plant/treatment plant
Point AF040 crane Point AF070 flare pipe	Point	AF010		chimney/smokestack
Point AF070 flare pipe	Point	AF030		cooling tower
	Point	AF040		crane
Point AH050 fortification	Point	AF070		flare pipe
	Point	AH050		fortification

VMap Level 1 VMap Level 1

P LOTO			Villap Edvo
isplay Pı	riority 8		
Point	AJ050		windmill
Point	AK020		amusement park attraction
Point	AK150		ski jump
Point	AK160		stadium/amphitheater
Point	AL015	bfc=0or1or4or9or10or11or16or17or18or19or20or22 or23or24or27or83or999	building - generic
Point	AL015	bfc=15	building - school
Point	AL015	bfc=2or3or5or12or13or14	building - government
Point	AL015	bfc=7 AND hwt=0or2or3or4or7	building - house of worship
Point	AL015	bfc=7 AND hwt=11or14or15or16	building - house of worship
Point	AL015	bfc=7 AND hwt=20	building - house of worship
Point	AL015	bfc=7 AND hwt=21	building - house of worship
Point	AL015	bfc=7 AND hwt=5or6or9	building - house of worship
Point	AL015	bfc=82	building - lighthouse
Point	AL025		cairn
Point	AL100		hut
Point	AL130		monument
Point	AL200		ruins
Point	AL210		snow shed/rock shed
Point	AL240		tower (non-communication)
Point	AM020		grain bin/silo
Point	AM030		grain elevator
Point	AM070		tank
Point	AM080		water tower
Point	AP020		interchange
Point	AQ040		bridge/overpass/viaduct
Point	AQ060		control tower
Point	AQ110		mooring mast
Point	AQ116		pumping station
Point	AQ130		tunnel
Point	AT010		disk/dish
Point	AT080		communication tower
Point	BD130		rock
Point	BD180		wreck

p Level 1 viliap Le			
isplay Pr	iority 8		
Point	BI020		dam/weir
Point	BI050		water intake tower
Point	CA030	ela<>1	spot elevation - not accurate
Point	CA030	ela=1	spot elevation - accurate
Point	GB005	exs<>28	airport/airfield - not operational
Point	GB005	use<>8and<>22 AND exs=28	airport/airfield - operational; non military
Point	GB005	use=8or22 AND exs=28	airport/airfield - operational; military
Point	GB010		airport lighting
Point	GB055	exs<>28	runway - not operational
Point	GB055	exs=28	runway - operational
Point	ZB035		control point/control station
Line	AF020		conveyor
Line	AK130		race track
Line	AL210		snow shed/rock shed
Line	AN010	exs<0and<>28 AND fco<0and<>3 AND rgc<>2	railroad -non-op, multi, norml/brd/unkn
Line	AN010	exs<0and<>28 AND fco<0and<>3 AND rgc=2	railroad -non-op, multi, narrow
Line	AN010	exs<>0and<>28 AND fco=0or3 AND rgc<>2	railroad -non-op, unkn/single, unkn/norml/brd
Line	AN010	exs<>0and<>28 AND fco=0or3 AND rgc=2	railroad -non-op, single/unkn, narrow
Line	AN010	exs=0or28 AND fco<>0and<>3 AND rgc<>2	railroad -op,multi, unkn/norml/brd
Line	AN010	exs=0or28 AND fco<0and<03 AND rgc=2	railroad -op, mult, narrow
Line	AN010	exs=0or28 AND fco=0or3 AND rgc<>2	railroad -op, unkn/single, unkn/norml/brd
Line	AN010	exs=0or28 AND fco=0or3 AND rgc=2	railroad -op, unkn/single, narrow
Line	AN050	rgc<>2	railroad siding/railroad spur - normal,broad,unknown
Line	AN050	rgc=2	railroad siding/railroad spur - narrow
Line	AP030	rst=0 OR wtc=0	road - unknown surface and weatherability
Line	AP030	rst=2or3 AND wtc=2or3	road - loose surface, fair/dry/winter
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=1	road - non-operational, hard surface
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3	road - non-operational, loose surface
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3	road - non-operational, loose surface, no median
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1	road - non-operational, hard surface, national/state
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3	road - non-operational, loose surface, with median
Line	AP030	wtc=1 AND exs<>28 AND med<>1 AND rst=1 AND ltn>=2	road - non-operational, hard surface, no median

J Level 1			Viviap
splay Priorit	y 8		
Line Al	P030	wtc=1 AND exs=28 AND ltn<2 AND rst=1	road - operational, hard surface, private/other
Line Al	P030	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3	road - operational, loose surface
Line Al	P030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1	road - operational, hard surface, interstate/international
Line Al	P030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3	road - operational, loose surface, no median
Line Al	P030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=1	road - operational, hard surface, national/state
Line Al	P030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3	road - operational, loose surface, median
Line A	Q010		aerial cableway lines/ski lift lines
Line A	Q040		bridge/overpass/viaduct
Line A	Q130		tunnel
Line A	Т030		power transmission line
Line A	Т060		telephone line/telegraph line
Line BI	D120		reef
Line BI	E015		depth contour
Line BI	H010	loc=25	aqueduct - elevated
Line BI	H060	loc=25	flume - elevated
Line BI	H110	loc=25	penstock - elevated
Line BI	1020		dam/weir
Line BI	1030		lock
Line CA	A010		contour line (land)
Line FA	A000	use=0or26	administrative boundary - primary, unknown
Line FA	A000	use=30	administrative boundary - secondary
Line FA	A000	use=31	administrative boundary - tertiary
Line FA	A000	use=4or23	administrative boundary - international
Line FA	A020		armistice line
Line FA	A030		cease-fire line
Line FA	A050		mandate line/convention line
Line FA	A 060		defacto boundary
Line FA	A 110		international date line
Line Gl	B055		runway
Area Al	L015	bfc<>7and<>15	building - generic
Area Al	L015	bfc=15	building - school
Area Al	L015	bfc=7	building - house of worship

Display Priority 8				
Area	AN060	railroad yard/marshalling yard		
Area	ZC040	magnetic disturbance area		
Area	ZD020	void collection area		

p Leve	el 2		VMap Leve
isplay P	riority 0		
Area	BA030		island
isplay P	riority 1		
Area	BH080	hyc=3or6	lake/pond - dry, intermittent
Area	BH140	hyc=3or6	river/stream - dry, intermittent
Area	BH160		sebkha
Area	BJ020		moraine
Area	DA005		asphalt lake
Area	DA010	mcc<>8and<>52and<>46and<>88	ground surface element - not rock, not lava, not sand
Area	DA010	mcc=46or8	ground surface element - boulders, gravel
Area	DA010	mcc=52	ground surface element - lava
Area	DA010	mcc=88	ground surface element - sand
Area	DB170	ssc=0	sand dune/sand hills - unknown
Area	DB170	ssc=22	sand dune/sand hills - crescent
Area	DB170	ssc=26	sand dune/sand hills - lateral
Area	DB170	ssc=27	sand dune/sand hills - mounds
Area	DB170	ssc=28	sand dune/sand hills - ripple
Area	DB170	ssc=29	sand dune/sand hills - star
Area	DB170	ssc=30	sand dune/sand hills - transverse
isplay P	riority 2		
Line	EA020		hedgerow
Area	AL020		built-up area
Area	AL105		settlement
Area	AL135		native settlement
Area	BH015		bog
Area	BH077		hummock
Area	BH090		land subject to inundation
Area	BH095		marsh/swamp
Area	BH135		rice field
Area	BJ030		glacier
Area	BJ065		ice shelf
Area	BJ100		snow field/ice field
Area	BJ110		tundra
Area	EA010		cropland

play Fi	iority 2		
Area	EA030		nursery
Area	EA040		orchard/plantation
Area	EA050		vineyards
Area	EB010		grassland
Area	EB020		scrub/brush
Area	EC010		bamboo/cane
Area	EC020		oasis
Area	EC030	veg=0or24or50or999	trees - unknown, deciduous, mixed, other
Area	EC030	veg=11or12or17or18or25or29or38	trees - casuarina, coniferous, palm, filao, evergreen, eucalyptus, cypress
play Pr	iority 3		
Point	BD100		pile/piling/post
Point	BH120		rapids
Point	BH180		waterfall
Point	EC020		oasis
Line	BH120		rapids
Line	BH180		waterfall
Area	AC030		settling basin/sludge pond
Area	AK170		swimming pool
Area	BA020		foreshore
Area	BA040		water (except inland)
Area	BB090		drydock
Area	BD100		pile/piling/post
Area	BH020	exs<>32 OR hyc<>8	canal - not navigable or not perennial
Area	BH020	exs=32 AND hyc=8	canal - navigable; perennial
Area	BH030		ditch
Area	BH040		filtration beds/aeration beds
Area	BH050		fish hatchery/fish farm/marine farm
Area	BH080	hyc=0or8	lake/pond - perennial, unknown
Area	BH130		reservoir
Area	BH140	hyc=0or8	river/stream - perennial, unknown
Area	BH150		salt pan
Area	BH155		salt evaporator
	BJ070		pack ice

ap Leve	ap Level 2 VMap Level				
Display P	riority 3				
Area	BJ080		polar ice		
Area	EC030	veg=16or19	trees - nipa palm, mangrove		
Display P	riority 4				
Point	EC030		trees		
Display P	riority 5				
Point	AM060		storage bunker/storage mound		
Area	AA010		mine/quarry		
Area	AB000		disposal site/waste pile		
Area	AB010		wrecking yard/scrap yard		
Area	AD030		substation/transformer yard		
Area	AI020		mobile home/mobile home park		
Area	AJ030		feedlot/stockyard/holding pen		
Area	AK030		amusement park		
Area	AK040		athletic field		
Area	AK060		campground/campsite		
Area	AK070		drive in theater		
Area	AK090		fairgrounds		
Area	AK100		golf course		
Area	AK120		park		
Area	AK160		stadium/amphitheater		
Area	AK180		zoo/safari park		
Area	AL030		cemetery		
Area	AL170		plaza/city square		
Area	AL200		ruins		
Area	AM010		depot (storage)		
Area	AM060		storage bunker/storage mound		
Area	AQ135		vehicle stopping area/rest area		
Area	AQ140		vehicle storage/parking area		
Display P	riority 6				
Point	AA050	pro=116	well - water		
Point	AL105		settlement		
Point	BH010		aqueduct		
Point Point	BH010 BH145		aqueduct river stream vanishing point		

-iit 0	_	VIVIAP I
		on fine for the body
		spring/water-hole
	1 (1)	cistern
		pipeline/pipe - underground; not water
		pipeline/pipe - undergound; water
BH010	loc<>25	aqueduct - not elevated
BH010	loc=25	aqueduct - elevated
BH020	hyc<>8	canal - not perennial
BH020	hyc=8	canal - perennial
BH030	hyc=0or8	ditch - perennial, unknown
BH030	hyc=6	ditch - intermittent
BH060	loc<>25	flume - not elevated
BH110	loc<>25	penstock - not elevated
BH140	hyc=0or8	river/stream - perennial, unknown
BH140	hyc=3or6	river/stream - dry, intermittent
BI020		dam/weir
BI030		lock
BI050		water intake tower
FA001		administrative area
FA070		demilitarized zone
FA170		zone of occupation
riority 7		
AD020		solar panels
AQ070		ferry crossing
		anchorage
		ford
BJ060		ice peak/nunatak
DB030		cave
		geothermal feature
DB150		mountain pass
		rock strata/rock formation
		volcano
		dragon teeth
		fence
		wall
	BH020 BH020 BH030 BH030 BH030 BH060 BH110 BH140 BH140 BI020 BI030 BI050 FA001 FA070 FA170 FA170 FOITITY 7 AD020 AQ070 BB010 BH070 BJ060 DB030 DB115	BH170 BI010 AQ113 loc=4 AND pro⇔116 AQ113 loc=4 AND pro=116 BH010 loc≈25 BH010 loc=25 BH020 hyc≈8 BH020 hyc=8 BH030 hyc=0or8 BH030 hyc=6 BH060 loc≈25 BH110 loc≈25 BH140 hyc=3or6 BI020 BI030 BI050 FA001 FA070 FA170 riority 7 AD020 AQ070 BB010 BH070 BJ060 DB030 DB115 DB150 DB160 DB180 AL060 AL070

Display Priority 7				
Line	AP010	I	cart track	
Line	AP050		trail	
Line	AQ070		ferry crossing	
Line	AQ113	loc<>4 AND pro<>116	pipeline/pipe - on or above ground; not water	
Line	AQ113	loc<>4 AND pro=116	pipeline/pipe - on or above ground; water	
Line	BA010	slt<>6and<>8	coastline.shoreline - not mangrove or marsh	
Line	BA010	slt=6or8	coastline/shoreline - mangrove, marsh	
Line	BB040		breakwater/groyne	
Line	BB140		jetty	
Line	BB190		pier/wharf/quay	
Line	BB230		seawall	
Line	BB240		slipway/patent slip	
Line	BH070		ford	
Line	BJ040		ice cliff	
Line	DB010		bluff/cliff/escarpment	
Line	DB060	mcc=0or30	crevice/crevasse - earthen	
Line	DB060	mcc=103	crevice/crevasse - snow/ice	
Line	DB070		cut	
Line	DB090		embankment/fill	
Line	DB100		esker	
Line	DB110		fault	
Line	EC040		cleared way/cut line/firebreak	
Line	FA090		geophysical prospecting grid	
Area	AC000		processing plant/treatment plant	
Area	AD010		power plant	
Area	AH050		fortification	
Area	AL060		dragon teeth	
Area	AL140		particle accelerator	
Area	AQ116		pumping station	
Area	AT050		communication building	
Area	BB010		anchorage	
Area	BB040		breakwater/groyne	
Area	BB140		jetty	
Area	BB190		pier/wharf/quay	

splay Pr	iority 7		
Area	BB240		slipway/patent slip
Area	BD120		reef
Area	DB060		crevice/crevasse
Area	DB090		embankment/fill
Area	DB160		rock strata/rock formation
splay Pr	iority 8	ſ	
Point	AA010		mine/quarry
Point	AA040		rig/superstructure
Point	AA050	pro<>116	well - not water
Point	AC000	•	processing plant/treatment plant
Point	AC020		catalytic cracker
Point	AD030		substation/transformer yard
Point	AF010		chimney/smokestack
Point	AF030		cooling tower
Point	AF040		crane
Point	AF070		flare pipe
Point	AH050		fortification
Point	AJ050		windmill
Point	AK020		amusement park attraction
Point	AK150		ski jump
Point	AL015	bfc=0or1or4or9or10or11or16or17or18or19or20or21 or22or23or24or25or26or27or29or30or33or36	building - generic
Point	AL015	bfc=15	building - school
Point	AL015	bfc=2or3or5or8or12or13or14or28or31or35or37or61 or66or77or96	building - government
Point	AL015	bfc=53or59or69or70or83or85or86or87or88or89or9 0or91or92or93or95or98or999	building - generic
Point	AL015	bfc=6	building - hospital
Point	AL015	bfc=7 AND hwt=0or2or3or4or7	building - house of worship
Point	AL015	bfc=7 AND hwt=11or14or15or16	building - house of worship
Point	AL015	bfc=7 AND hwt=20	building - house of worship
Point	AL015	bfc=7 AND hwt=21	building - house of worship
Point	AL015	bfc=7 AND hwt=5or6or9	building - house of worship
Point	AL015	bfc=82	building - lighthouse

thap Love				
Display P	riority 8			
Point	AL030		cemetery	
Point	AL100		hut	
Point	AL130		monument	
Point	AL200		ruins	
Point	AL210		snow shed/rock shed	
Point	AL240		tower (non-communication)	
Point	AL250		underground dwelling	
Point	AM020		grain bin/silo	
Point	AM030		grain elevator	
Point	AM070		tank	
Point	AM080		water tower	
Point	AN075		railroad turntable	
Point	AQ040		bridge/overpass/viaduct	
Point	AQ060		control tower	
Point	AQ065		culvert	
Point	AQ110		mooring mast	
Point	AQ116		pumping station	
Point	AQ130		tunnel	
Point	AT010		disk/dish	
Point	AT050		communication building	
Point	AT080		communication tower	
Point	BD130		rock	
Point	BD180		wreck	
Point	BI020		dam/weir	
Point	BI030		lock	
Point	BI040		sluice gate	
Point	BI050		water intake tower	
Point	CA030	ela<>1	spot elevation - not accurate	
Point	CA030	ela=1	spot elevation - accurate	
Point	GB005	exs<>28	airport/airfield - not operational	
Point	GB005	use<>8and<>22 AND exs=28	airport/airfield - operational; non military	
Point	GB005	use=8or22 AND exs=28	airport/airfield - operational; military	
Point	GB010		airport lighting	
Point	ZB030		boundary monument	

Display Priority 8			
			and a language of the second s
Point	ZB035		control point/control station
Line	AF020		conveyor
Line	AK130		race track
Line	AK150		ski jump
Line	AL015	bfc\sigma6and\sigma7and\sigma15	building - generic
Line	AL015	bfc=15	building - school
Line	AL015	bfc=6	building - hospital
Line	AL015	bfc=7	building - house of worship
Line	AL210		snow shed/rock shed
Line	AN010	exs<0and<>28 AND fco<0and<>3 AND rgc<>2	railroad -non-op, multi, norml/brd/unkn
Line	AN010	exs<>0and<>28 AND fco<>0and<>3 AND rgc=2	railroad -non-op, multi, narrow
Line	AN010	exs<>0and<>28 AND fco=0or3 AND rgc<>2	railroad -non-op, unkn/single, unkn/norml/brd
Line	AN010	exs<>0and<>28 AND fco=0or3 AND rgc=2	railroad -non-op, single/unkn, narrow
Line	AN010	exs=0or28 AND fco<>0and<>3 AND rgc<>2	railroad -op,multi, unkn/norml/brd
Line	AN010	exs=0or28 AND fco<0and<>3 AND rgc=2	railroad -op, mult, narrow
Line	AN010	exs=0or28 AND fco=0or3 AND rgc<>2	railroad -op, unkn/single, unkn/norml/brd
Line	AN010	exs=0or28 AND fco=0or3 AND rgc=2	railroad -op, unkn/single, narrow
Line	AN050	rgc<>2	railroad siding/railroad spur - normal,broad,unknown
Line	AN050	rgc=2	railroad siding/railroad spur - narrow
Line	AP020		interchange
Line	AP030	rst=0 OR wtc=0	road - unknown surface and weatherability
Line	AP030	rst=2or3 AND wtc=2or3	road - loose surface, fair/dry/winter
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=1	road - non-operational, hard surface
Line	AP030	wtc=1 AND exs<>28 AND ltn<2 AND rst=2or3	road - non-operational, loose surface
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=1	road - non-operational, hard surface, no median
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med<>1 AND rst=2or3	road - non-operational, loose surface, no median
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=1	road - non-operational, hard surface, national/state
Line	AP030	wtc=1 AND exs<>28 AND ltn>=2 AND med=1 AND rst=2or3	road - non-operational, loose surface, with median
Line	AP030	wtc=1 AND exs=28 AND ltn<2 AND rst=1	road - operational, hard surface, private/other
Line	AP030	wtc=1 AND exs=28 AND ltn<2 AND rst=2or3	road - operational - loose surface
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=1	road - operational, hard surface, interstate/international

	2p 2010. 2				
Display P	riority 8				
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med<>1 AND rst=2or3	road - operational, loose surface, no median		
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=1	road - operational, hard surface, national/state		
Line	AP030	wtc=1 AND exs=28 AND ltn>=2 AND med=1 AND rst=2or3	road - operational, loose surface, median		
Line	AQ010		aerial cableway lines/ski lift lines		
Line	AQ040		bridge/overpass/viaduct		
Line	AQ130		tunnel		
Line	AT030		power transmission line		
Line	AT060		telephone line/telegraph line		
Line	BD120		reef		
Line	BE015		depth contour		
Line	BH060	loc=25	flume - elevated		
Line	BH110	loc=25	penstock - elevated		
Line	BI020		dam/weir		
Line	BI040		sluice gate		
Line	CA010	mcc<>103 AND hqc=0or1	contour line (land) - index		
Line	CA010	mcc<>103 AND hqc=12	contour line (land) - intermediate approximate		
Line	CA010	mcc<>103 AND hqc=14	contour line (land) - supplementary 1/4		
Line	CA010	mcc<>103 AND hqc=2	contour line (land) - intermediate		
Line	CA010	mcc≪103 AND hqc=3or4or13	contour line (land) - supplementary 1/2, approx, form lines		
Line	CA010	mcc<>103 AND hqc=5or8	contour line (land) - depression mound		
Line	CA010	mcc<>103 AND hqc=6or9	contour line (land) - intermediate depression mound		
Line	CA010	mcc<>103 AND hqc=7	contour line (land) - index approximate		
Line	CA010	mcc=103 AND hqc=0or1	contour line (snow\ice) - index unknown		
Line	CA010	mcc=103 AND hqc=12	contour line (snow\ice) - intermediate approximate		
Line	CA010	mcc=103 AND hqc=14	contour line (snow\ice) - supplementary 1/4		
Line	CA010	mcc=103 AND hqc=2	contour line (snow\ice) - intermediate		
Line	CA010	mcc=103 AND hqc=3or4or13	contour line (snow\ice) - supplementary 1/2, approx, form lines, approx		
Line	CA010	mcc=103 AND hqc=5or8	contour line (snow\ice) - index depression mound		
Line	CA010	mcc=103 AND hqc=6or9	contour line (snow\ice) - intermediate depression mound		
Line	CA010	mcc=103 AND hqc=7	contour line (snow\ice) - index approximate		
Line	FA000	use=0or26	administrative boundary - primary, unknown		

isplay P	riority 8		
Line	FA000	use=23	administrative boundary - international
Line	FA020		armistice line
Line	FA030		cease-fire line
Line	FA060		defacto boundary
Line	FA110		international date line
Area	AL015	bfc 6and 7and 15	building - generic
Area	AL015	bfc=15	building - school
Area	AL015	bfc=6	building - hospital
Area	AL015	bfc=7	building - house of worship
Area	AM020		grain bin/silo
Area	AM030		grain elevator
Area	AM070		tank
Area	AN060		railroad yard/marshalling yard
Area	GB005		airport/airfield
Area	GB015		apron/hardstand
Area	GB045		overrun/stopway
Area	GB055		runway
Area	GB075		taxiway
Area	ZD020		void collection area

VVSPlus			WVSPlus
Display P	riority 0		
Area	BA040	4	water (except inland)
Area	BE019		depth area
Display P	riority 4		
Line	BE015		depth contour
Display P	riority 6		
Line	BA010		coastline/shoreline
Area	FA001		administrative area
Display P	riority 7		
Line	FA020	ı	armistice line
Line	FA030		cease-fire line
Line	FA040		claim line
Line	FA050		mandate line/convention line
Line	FA070	mbl=6	demilitarized zone
Line	ZD003		artifact location
Display P	riority 8		
Line	FA000		administrative boundary
Line	FA000	use=0or26	administrative boundary - primary, unknown
Line	FA000	use=30	administrative boundary - secondary
Line	FA000	use=31	administrative boundary - tertiary
Line	FA000	use=4or23	administrative boundary - national, international
Line	FA060		defacto boundary
Line	FC021	mbl=6	maritime limit boundary - territorial waters limits
Line	FC021	mbl=7	maritime limit boundary - territorial waters baseline
Line	FC021	mbl=9	maritime limit boundary - international (at sea)
Line	FC021	mbl=999	maritime limit boundary - other territorial baseline

SYMBOL GRAPHICS

G.1 SCOPE

G.1.1 <u>Scope</u>. This appendix provides a graphic depiction of each symbol. It is a mandatory part of the specification. The information contained herein is intended for compliance.

G.2 APPLICABLE DOCUMENTS

This section is not applicable to this appendix.

G.3 SYMBOL GRAPHICS

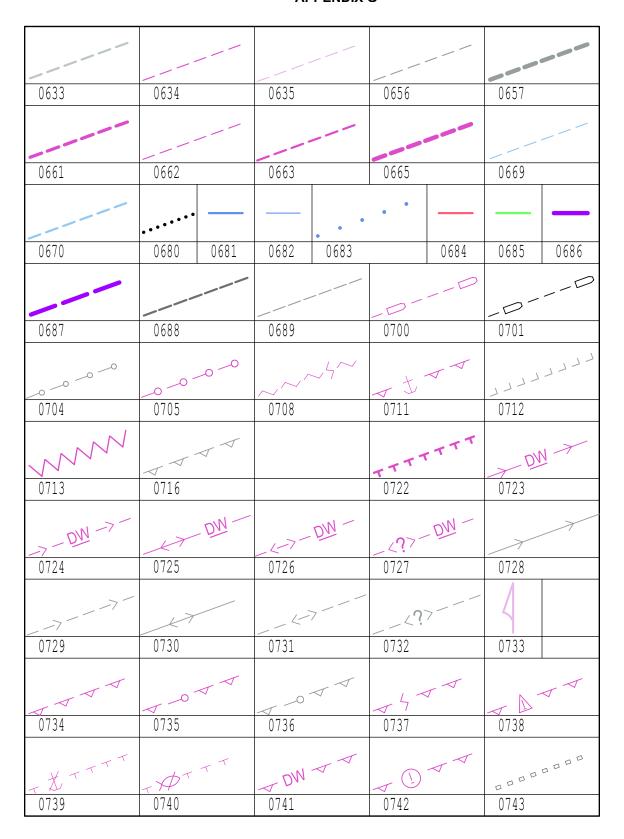
This appendix is sorted by symbol number and presents a graphic depiction of each symbol. The symbol depictions shown in this appendix are size-relative and based on the actual CGM representation of each symbol. It is important to note that the symbols are drawn to appear correctly in the context of digital map display containing many other symbols. Therefore, some symbols may appear to be distorted or have exaggerated elements in their representation in this appendix. For example, the dots in symbol 0052 in this appendix appear to be too large. However, when one views symbol 0052 in the GeoSym viewer (GEOSYMVW.EXE), the symbol displays correctly.

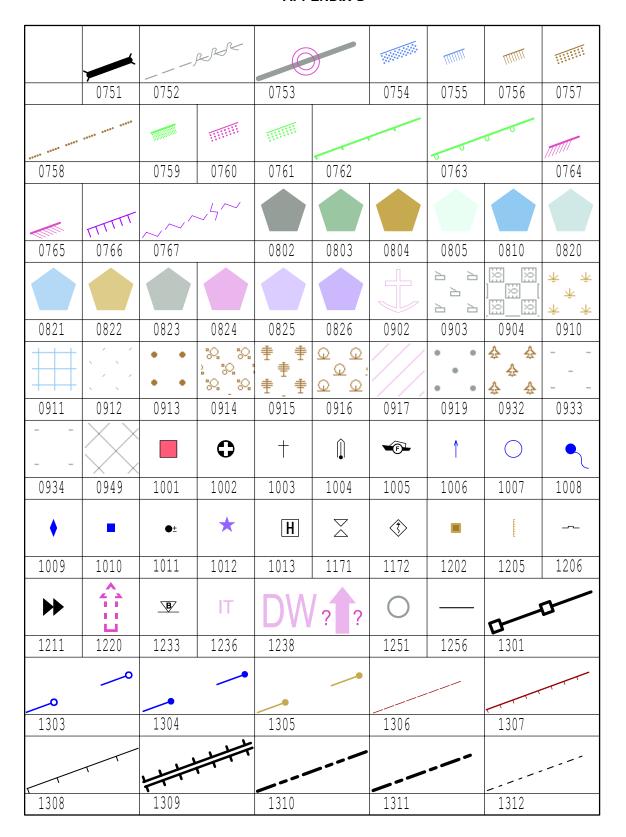
An asterisk beside a symbol number indicates that the symbol is used by GeoSym but is not accessed through an attribute expression. Therefore, the symbol will not be represented in Appendix A. Currently, these symbols are limited to 0502, 0503, 4324, 5000, and 5001. Their use in GeoSym is explained in MIL-HDBK-857.

Symbol Representations

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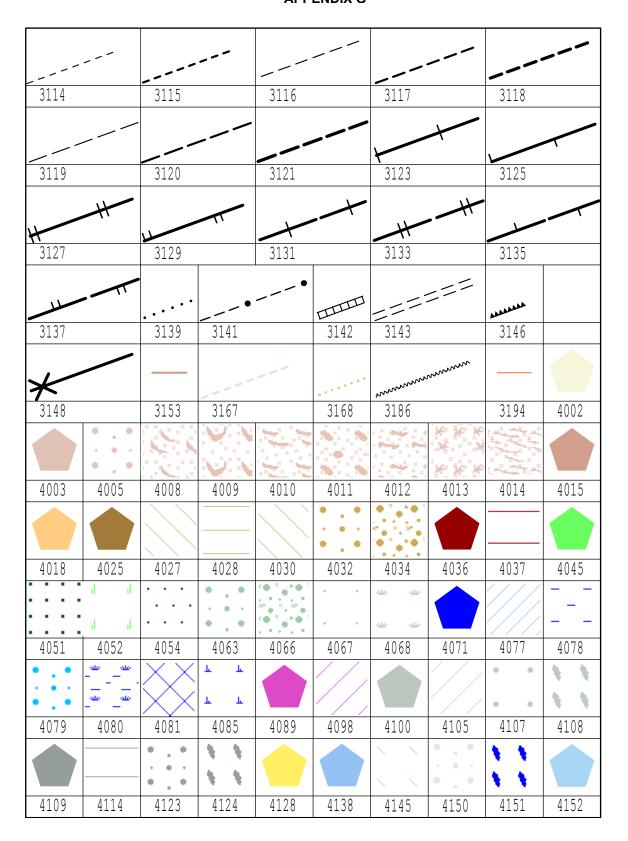
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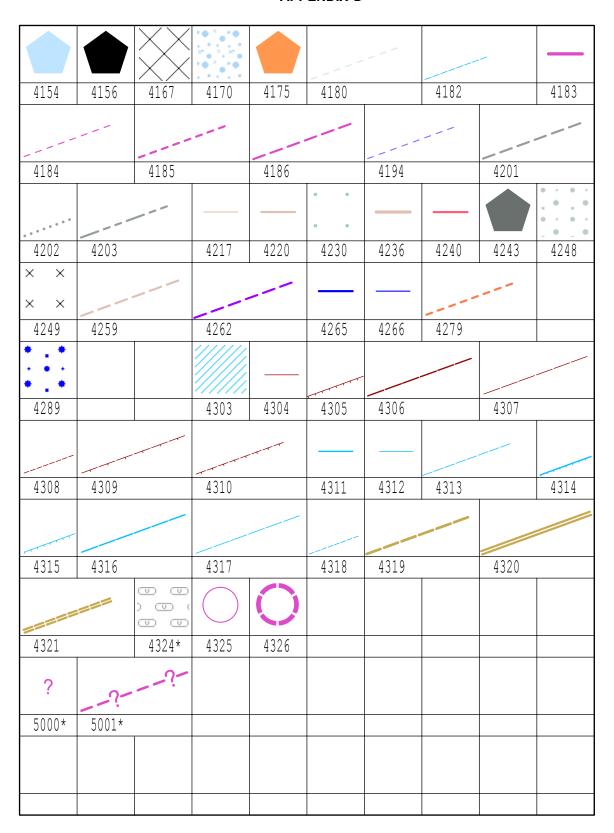




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MIL-DTL-89045 Concluding Materials

Custodians:

Air Force - 09

Army - TI Navy - NO DISA - DC2 Preparing Activity
NGA - MP

(Project GINT-0296)

Review activities:

Air Force - 33 Navy - CG DLA - DH Marine Corps - MC NSA - NS NORAD - US

 ${\underline{\hbox{NOTE}}}$: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at www.dodssp.daps.mil