METRIC
MIL-STD-2408(DMA)
21 APRIL 1995
SUPERSEDING
DMA Standard Supporting Mark 90
Glossary-Feature/Attribute Definitions
Third Edition, December 1988

Note - The cover page of this standard has been changed for administrative reasons. There are no other changes to this document.

DEPARTMENT OF DEFENSE STANDARD PRACTICE

MAPPING, CHARTING & GEODESY GLOSSARY OF FEATURE AND ATTRIBUTE DEFINITIONS

AMSC N/A

AREA MCGT

FOREWORD

1. This Military Standard (MIL-STD-2408) is approved for use by the Defense Mapping Agency (DMA) and is available for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Director, Defense Mapping Agency, ATTN: TIJ, 8613 Lee Highway, Fairfax, VA 22031-2137 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

3. This standard evolved from the DMA Standard Supporting Mark 90, Section 100, Glossary. This Digital Production System (DPS) glossary was originally developed to establish a set of Mapping, Charting, and Geodesy (MC&G) features, and a comprehensive set of attributes about these features, that had been standardized across product lines. These MC&G features and their attributes were codified into the Feature/Attribute Coding Standard (FACS). FACS is the internal coding system used in DMA's DPS to produce numerous hardcopy and digital products. Even though a digital coding scheme is not applicable to graphic hardcopy products, the military specifications (MILSPECs) for these products use the FACS as a standardized "cartographic language" to describe the product requirements.

4. While the DPS was being developed, other efforts to create feature coding systems were taking place. One of these efforts resulted in the Digital Geographic Information Exchange Standard (DIGEST) Feature Attribute Coding Catalog (FACC). DMA's FACS was originally used as the basis for the FACC; thus, many of the definitions and attributes appear very similar. Despite this resemblance, numerous major changes have been made to FACC, resulting in a distinctly different coding scheme. Since FACC is intended to become a North Atlantic Treaty Organization (NATO) Standardization Agreement (STANAG), and possibly even an international standard, DMA has selected FACC as the coding standard for its new digital products. By selecting the FACC, DMA has ensured that digital data can be exchanged in the international community with minimum change.

5. This Glossary of MC&G Feature and Attribute Definitions, MIL-STD-2408, is published as a DMA Military Standard because these definitions are necessary for a through understanding of DMA's DPS supporting MILSPECs and standards that are based on the FACS. FACS is the language that ties together the requirements stated in these documents. Therefore, publication of this document as a DMA Military

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Standard avoids any misunderstanding that FACS is an approved coding standard for digital products, or a standard for the exchange of digital data.

1. SCOPE

1.1 Scope. This Military Standard, MIL-STD-2408, is a specialized dictionary wherein physical and conceptual earth objects/entities and their descriptive characteristics/properties are defined as Mapping, Charting, and Geodesy (MC&G) features and their associated attributes. These features and attributes are codified by the use of the Feature/ Attribute Coding Standard (FACS), which is the internal coding schema used by the Defense Mapping Agency's (DMA's) Digital Production System (DPS) to produce numerous hardcopy and digital products.

1.2 Purpose. The purpose of this standardized MC&G Glossary of Feature and Attribute Definitions is to assure uniformity of treatment among mapping and charting elements, primarily DMA and its contractors, engaged in a coordinated production and maintenance program of numerous MC&G products. In order to maintain consistency between various DMA and contractor production methods, feature requirements are stated in terms of the DMA's FACS. The use of FACS in this standard shall not imply any external digital data coding system (see Section 6.1). FACS is the internal coding standard used by DMA's DPS, which is the primary intended, but not exclusive, method of production of DMA products at this time. The Digital Geographic Information Exchange Standard (DIGEST) Feature Attribute Coding Catalog (FACC), not FACS, is the approved coding standard for the exchange of digital geographic data, as well as the standard for DMA's Vector Product Format (VPF) product line. FACC may be included, or even replace FACS, in future editions of this standard.

1.3 Applicability. This standard applies to both internal and contractual development efforts by the Defense Mapping Agency; and to all levels involved in the preparation and maintenance of MC&G products, whose military specifications (MILSPECs) are based upon Feature/ Attribute Coding Standard (FACS).

1.4 Security. This military standard, MIL-STD-2408, is UNCLASSIFIED. The features, attributes, values, and technical specifications presented herein may be used for classified products, where appropriate security provisions are added.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents are those listed in the current Department of Defense Index of Specifications and standards (DODISS) and the supplement thereto, cited in the solicitation (see 6.2).

MILITARY STANDARDS

MIL-STD-2402 - MC&G Symbols for Graphic Products
MIL-STD-2403 - MC&G Product Generation Rules

(NOTE: Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the: Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094).

2.1.2 Other Government documents, drawings and publications.

This section is not applicable to this standard.

2.2 Non-Government publications.

This section is not applicable to this standard.

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated detailed specifications, specification sheets, or MS standards), the text of this document shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS

3.1 Attribute. The name of the MC&G representation of the physical and conceptual characteristics and/or properties of earth objects and entities which are required by a Feature.

3.2 A(Attribute)code. An identifying three character alphabetic or alphanumeric code (acronym) assigned to each Attribute.

3.3 Attribute Value. The valid descriptive qualitative and quantitative terms (meanings/definitions) assigned to each Attribute.

3.4 AV(Attribute Value) code. A six character alphanumeric code assigned to indicate an Attribute Value. The first three characters are the Attribute code, and the last three are the three character numeric assigned to a particular named Attribute Value, i.e. EXS006 refers to the Existence Category attribute with a meaning/value of "Abandoned".

3.5 Feature. The MC&G representation of a physical (e.g., Bridge) or conceptual (e.g., Equator) object or entity of the real world which has one or more sets of coordinates required by a MC&G product.

3.6 F(Feature) code. An identifying five character alphanumeric code assigned to each Feature.

3.7 Increment. The unit of measurement used to define an Attribute Range.

3.8 Limits. Defines the method used to measure an Attribute Range.

3.9 Range. Set of allowable values for an Attribute that is a measurement.

3.10 Variance. Defines the treatment of special cases when determining an Attribute Range.

4. GENERAL REQUIREMENTS

4.1 Requirements of the Military Standard. MC&G Glossary of Feature and Attribute Definitions. This standard provides an inclusive listing and definitions of features, attributes and attribute values as they appear in MC&G military standards and specifications that are supported herein. All features and attributes have been assigned a DMA FACS 'code'.

4.2 Coding. All features, attributes and attribute values are assigned alphabetic, numeric, or alphanumeric codes. Feature codes are broken down to further define a features category, subcategory, or subfeature. Attribute codes define a specific characteristic or property of a feature and may be modified by sets of values relating the largest degree of variability within that attribute.

5. DETAILED REQUIREMENTS

5.1 Features. Each feature is assigned a unique five (5) character alphanumeric code that defines its category, subcategory and subfeature. For example:

CATEGORY	SUBCATEGORY	SUBFEATURE
1	A	010
CULTURE	EXTRACTION	MINE

a. The first character (numeric) identifies the major feature category:

1 = Culture
2 = Hydrography
3 = Hypsography
4 = Physiography
5 = Vegetation
6 = Demarcation
7 = Reserved for future use
8 = Aeronautical Data Maintenance
9 = General
10 = Reserved for future use

b. The second character (alphabetic) identifies a feature subcategory. For example:

1A = Extraction
1B = Disposal
1C = Processing Industry
2A = Coastal Hydro
2B = Ports and Harbors

c. The remaining three (3) characters (numeric) assign a unique numeric code to each feature within the subcategory. The numbers are assigned in consecutive numerical order based upon the alphabetical order of the feature name. For example:

1A010 = Mine
1A030 = Quarry
1A040 = Rig/Superstructure
1A050 = Well

Note: A general ordering sequence of every ten numbers (000, 010, 020, etc.) has been applied, but due to deletions and/or additions of features, this sequential or nearly sequential ordering by tens is **not** always present. However, the alphabetic ordering sequence within each subcategory has been maintained.

5.2 Attributes. Associated with each feature is a menu selection of attributes and values which provide needed information relating that feature to a specific product or group of products. Each attribute is identified by a three (3) character abbreviation/acronym and can be representative of either an extracted or derived requirement. Extracted attributes are determinable directly from source while assigned attributes provide information taken from textual data. Derived attributes are represented by one (1) numeric and two (2) alphabetic characters. For example:

Extracted/Assigned		Derived	
HGT	Height Above Surface Level	1DE	Derived Depth
LEN	Length/Diameter	1HT	Derived Height
NAM	Name Category	1LN	Derived Length
RA1	Radio Aid (1)	1WD	Derived Width
S51	Sector Angle (1)		
TO1	Refueling Units Type (1)		

5.3 Attribute Values. Attribute values provide a comprehensive array of baseline data enumerating basic descriptive feature information. They describe the specific type, form, pattern, activity, etc. of each required Feature. For example:

DIR	Directivity
1	Right Uni
2	Bi
3	Omni
4	Left Uni

RSF	Radar Significance Code
1	Metal
2	Part Metal
3	Stone/Brick
.	
.	
.	
14	Asphalt

5.4 Feature/Attribute definitions. The Feature/Attribute Definitions table following paragraph 5.6 contains an inclusive listing of all features with their associated attributes, attribute values and definitions to be used with these features in support of and in conjunction with associated MC&G military standards and specifications.

5.5 All attributes and their values. Appendix A contains an inclusive listing of all the attributes with their associated attribute values, definition numbers, and definitions (if applicable) used in support of and in conjunction with the associated MC&G military standards and specifications.

5.6 Structure of feature/attribute definitions table. Each page (numbers 8 through 391) of the following MC&G Glossary of Feature/ Attribute Definitions, Table I, conforms to a standardized format for data presentation as shown below. Definitions of headings and entries are as given in sections 3 and 5.1 to 5.3.

Glossary specification format:

FCode	Feature	Attribute/Value		Definitions (Headings)
FCode (3.6)	**Feature** (3.5)			**Definition**
	ACode (3.2)	**Attribute** (3.1)		**Definition**
	With either:			
		Attribute Value Code (3.4)	**Attribute Value (Meaning)** (3.3)	**Definition**, if not evident from Feature or Attribute definitions above.
		OR		
				Increment (3.7) **Limits** (3.8) **Variance** (3.10)
		Range (3.9)		

//// (End of Each Feature's Listing) ////////////////////////////

5.7 FACS Feature Listings. Appendix B is a double listing of all the FACS features appearing in this document. In the first part, the features are sorted into their sequential Feature Code order, as presented in Table I. The second part sorts the features alphabetically by Feature Name.

Fcode	Feature	Attributes/Values	Definition
1A010	MINE		AN EXCAVATION MADE IN THE EARTH FOR THE PURPOSE OF EXTRACTING NATURAL DEPOSITS OF COMMERCIAL OR STRATEGIC VALUE, EXCLUDING CONSTRUCTION MATERIALS.
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate. Increment: Limits: N/A Variance: Range: -511...0
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature. 002 - 2 - - - - - - - - - - - - - - - - DMS > 679 003 - 3 - - - - - - - - - - - - - - - - DMS > 105 and <= 679 008 - 8 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 010 - 10 - - - - - - - - - - - - - - - -
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature. 000 - 0 - - - - - - - - - - - - - - - - 001 - 1 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 002 - 2 - - - - - - - - - - - - - - - - DMS > 105 and <= 252 003 - 3 - - - - - - - - - - - - - - - - DMS > 252 and <= 544 004 - 4 - - - - - - - - - - - - - - - - DMS > 544 and <= 679 005 - 5 - - - - - - - - - - - - - - - - DMS > 679 and <= 825 006 - 6 - - - - - - - - - - - - - - - - DMS > 825 and <= 971 007 - 7 - - - - - - - - - - - - - - - - DMS > 971 and <= 1114 008 - 8 - - - - - - - - - - - - - - - - DMS > 1114 and <=1262 009 - 9 - - - - - - - - - - - - - - - - DMS > 1262 and <= 1408 010 - 10 - - - - - - - - - - - - - - - - DMS > 1408 and <= 1554 011 - 11 - - - - - - - - - - - - - - - - DMS > 1554 and <= 1700 012 - 12 - - - - - - - - - - - - - - - - DMS > 1700 and <= 1845 013 - 13 - - - - - - - - - - - - - - - - DMS > 1845
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature. 000 - 0 - - - - - - - - - - - - - - - - 001 - 1 - - - - - - - - - - - - - - - - DMT >= 1 and <= 29 003 - 3 - - - - - - - - - - - - - - - - DMT >= 30
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded. Default: 360 Range: 0...179
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A Range: > 0...No Upper Limit
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height. 001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature. Increment: 0.5 Meter Limits: N/A Variance: N/A Range: 0...No Upper Limit
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1A010	MINE (Cont.)		
	DMS	DENSITY MEASURE (STRUCTURE COUNT) (Cont.)	
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HOE	HEIGHT OF EXCAVATION	A height value assigned as taken from the HGT value of the tallest 1F040 or 1F050 feature located within this feature's delineated area.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	MIN	MINING CATEGORY	Unique mining characteristic.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - HORIZONTAL SHAFT - - - - - - - - - -	An underground mine with a tunnel-like entrance that extends horizontally into a hillside.
		003 - OPEN PIT - - - - - - - - - - - - -	An open excavation with steep, sometimes terraced sides that completely enclose the excavation.
		004 - PLACER - - - - - - - - - - - - - -	An operation where unconsolidated, ore-bearing sediments are dug or dredged up; the ore separated by hydraulic methods, with the tailings often returned to the excavated area.

Fcode	Feature	Attributes/Values	Definition
1A010	MINE (Cont.)		
	MIN	MINING CATEGORY (Cont.)	
		005 - PROSPECT	A small, exploratory pit or shaft (horizontal or vertical), excavated during the search for an economical deposit, from which no production has taken place.
		006 - STRIP	A relatively shallow excavation where the active digging is along a linear front (shear wall) and the tailings are often used to fill in behind the excavation.
		007 - VERTICAL SHAFT	An underground excavation where access is through a vertical shaft. Operational mines are covered by a superstructure which carries the mine elevator cables and equipment.
		008 - PEAT CUTTINGS	A pattern of pits or trenches where peat deposits have been excavated.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN	
		007 - CLAY	
		009 - COAL	
		010 - COPPER	
		015 - GOLD	
		016 - IRON	
		017 - LEAD	
		019 - OTHER	
		024 - SILVER	
		028 - URANIUM	
		029 - ZINC	
		038 - SALT	
		046 - BAUXITE	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS	>= 51% of land, soil or ground surface
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1A030	QUARRY		OPEN EXCAVATION FOR EXTRACTION OF CONSTRUCTION MATERIALS.
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...0	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Ecode	Feature	Attributes/Values	Definition
1A030	QUARRY (Cont.)		
	1WD	DERIVED WIDTH (Cont.)	
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature.
			Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (FHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HOE	HEIGHT OF EXCAVATION	A height value assigned as taken from the HGT value of the tallest 1FD40 or 1FD50 feature located within this feature's delineated area.

Fcode	Feature	Attributes/Values	Definition
1A030	QUARRY (Cont.)		
	HOE	HEIGHT OF EXCAVATION (Cont.)	
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - -	
		040 - GRAVEL - - - - - - - - - - - - - -	
		042 - SAND - - - - - - - - - - - - - - -	
		043 - ROCK - - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1A031	QUARRY SHEAR-WALL		THE WALL FACING OF THE EXCAVATION WITHIN A QUARRY.
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: -511...0	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature.
			Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1A031	QUARRY SHEAR-WALL (Cont.)		
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component *from* the westmost node (southmost if line ends at same longitude).
		004 - LEFT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component *from* the westmost node (southmost if line ends at same longitude).
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: .1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: 0...No Upper Limit	

1A040	RIG /SUPERSTRUCTURE		A VERTICAL STRUCTURE FITTED FOR DRILLING OR LIFTING OPERATIONS AT A WELL OR VERTICAL MINE SHAFT.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1A040	RIG /SUPERSTRUCTURE (Cont.)		
	AOO ANGLE OF ORIENTATION (Cont.)		Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		006 - ABANDONED 028 - OPERATIONAL	
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HDE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE 009 - OTHER	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.

Fcode	Feature	Attributes/Values	Definition
1A040	RIG /SUPERSTRUCTURE (Cont.)		
	PRO PRODUCT CATEGORY (Cont.)		
		000 - UNKNOWN	
		012 - NATURAL GAS	
		018 - OIL	
		019 - OTHER	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1A050	WELL		A HOLE DRILLED OR DUG INTO THE EARTH FOR THE EXTRACTION OF LIQUIDS OR GASSES, AND INCLUDING ITS ASSOCIATED WELLHEAD OR CONTAINMENT STRUCTURE.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		000 - UNKNOWN	
		003 - REPORTED	
		006 - ABANDONED	
		028 - OPERATIONAL	
	HYC HYDROGRAPHIC CATEGORY		Identifies the annual water content of the feature.
		000 - UNKNOWN	
		002 - NOT APPLICABLE	
		003 - DRY	Normally retains no water but some may be present during rain or flood.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		000 - UNKNOWN	
		012 - NATURAL GAS	
		018 - OIL	

Fcode	Feature	Attributes/Values	Definition
1A050	WELL (Cont.)		
	PRO	PRODUCT CATEGORY (Cont.)	
		027 - WATER - - - - - - - - - - - - - - -	
	SCC	SPRING /WELL CHARACTERISTIC CATEGORY	Type of available water.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - ALKALINE - - - - - - - - - - - - - -	
		002 - NOT APPLICABLE - - - - - - - - - - -	
		004 - MINERAL - - - - - - - - - - - - - -	Undrinkable mineral content.
		009 - FRESHWATER - - - - - - - - - - - - -	Potable water content
	WFT	WELL FEATURE TYPE	Hydrographic features which are symbolized as wells, are usually dug or drilled, but could be natural.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - WATERHOLE - - - - - - - - - - - - - -	A natural depression where rainwater or runoff collects, forming a small pool.
		003 - ARTESIAN WELL - - - - - - - - - - -	A well from which the water flows naturally due to the pressure of the underground water.
		004 - FOUNTAIN - - - - - - - - - - - - - -	
		005 - WELL - - - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1B000	DISPOSAL SITE /WASTE PILE		AREA FOR THE COLLECTION OF REFUSE OR DISCARDED MATERIAL.
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT	DERIVED HEIGHT	For computation only. 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1B000	DISPOSAL SITE /WASTE PILE (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		006 - ABANDONED	
		028 - OPERATIONAL	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1B000	DISPOSAL SITE /WASTE PILE (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		000 - UNKNOWN - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - -	
		030 - SLAG - - - - - - - - - - - - - - -	
		032 - TAILINGS - - - - - - - - - - - - -	
		059 - REFUSE - - - - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1B010	WRECKING YARD /SCRAP YARD		AN AREA OR SITE ENGAGED IN THE WRECKING, DISMANTLING, STORAGE, OR RESALE OFDISCARDED PRODUCTS.
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...511	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1B010	WRECKING YARD /SCRAP YARD (Cont.)		
	AOO ANGLE OF ORIENTATION (Cont.)		
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		006 - ABANDONED 028 - OPERATIONAL	
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).

Fcode	Feature	Attributes/Values	Definition
1B010	WRECKING YARD /SCRAP YARD (Cont.)		
	HAC HEIGHTING ACCURACY (Cont.)		Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1C000	PROCESSING PLANT /TREATMENT PLANT		A SITE USED FOR CHANGING OR REFINING A PARTICULAR MATERIAL.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.

Fcode	Feature	Attributes/Values	Definition
1C000	PROCESSING PLANT /TREATMENT PLANT (Cont.)		
	ARA AREA COVERAGE ATTRIBUTE (Cont.)		
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		000 - UNKNOWN 001 - ALUMINUM 003 - ASPHALT 004 - BRICK 005 - CEMENT 006 - CHEMICAL 008 - COKE	

Fcode	Feature	Attributes/Values	Definition
1C000	PROCESSING PLANT /TREATMENT PLANT (Cont.)		
	PRO PRODUCT CATEGORY (Cont.)		
		010 - COPPER	
		011 - EXPLOSIVES	
		013 - GASOLINE	
		014 - GLASS	
		015 - GOLD	
		016 - IRON	
		017 - LEAD	
		018 - OIL	
		019 - OTHER	
		020 - PAPER	
		021 - RADIOACTIVE MATERIAL	
		022 - RUBBER	
		024 - SILVER	
		025 - STEEL	
		026 - VEGETATION PRODUCTS	Food Processing.
		027 - WATER	
		028 - URANIUM	
		029 - ZINC	
		033 - METAL	
		035 - SEWAGE	
		037 - HEAT	
		047 - LUMBER	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1C010	BLAST FURNACE		A HEAT CHAMBER USED FOR SMELTING.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DMS > 679
		003 - 3	DMS > 105 and <= 679
		008 - 8	DMS > 1 and <= 105
		010 - 10	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DMS = 1
		001 - 1	DMS > 1 and <= 105
		002 - 2	DMS > 105 and <= 252
		003 - 3	DMS > 252 and <= 544
		004 - 4	DMS > 544 and <= 679
		005 - 5	DMS > 679 and <= 825
		006 - 6	DMS > 825 and <= 971

Fcode	Feature	Attributes/Values	Definition
1C010	BLAST FURNACE (Cont.)		
	1DS DERIVED DENSITY OF STRUCTURES CODE (Cont.)		
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.

Fcode	Feature	Attributes/Values	Definition
1C010	BLAST FURNACE (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE (Cont.)	
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1C020	CATALYTIC CRACKER		THE UNIT IN A REFINERY IN WHICH PETROLEUM SEPARATION IS CARRIED OUT BY THE USE OF HEAT IN THE PRESENCE OF A CATALYST.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	

Fcode	Feature	Attributes/Values	Definition
1C020	CATALYTIC CRACKER (Cont.)		
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1C020	CATALYTIC CRACKER (Cont.)		
	DMS DENSITY MEASURE (STRUCTURE COUNT) (Cont.)		Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1C020	CATALYTIC CRACKER (Cont.)		
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1C030 SETTLING BASIN /SLUDGE POND

A SITE WHERE SOLID MATTER IS PRECIPITATED FROM A LIQUID BY EVAPORATION OR SETTLEMENT.

	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed

Fcode	Feature	Attributes/Values	Definition
1C030	SETTLING BASIN /SLUDGE POND (Cont.)		
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1D010	POWER PLANT FACILITY		AN INSTALLATION USED FOR THE GENERATION OF ELECTRIC POWER.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1D010	POWER PLANT FACILITY (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PPC	POWER PLANT CATEGORY	Energy source used to generate power.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - HYDRO-ELECTRIC - - - - - - - - - -	Use of water pressure to turn the generators.
		002 - NUCLEAR - - - - - - - - - - - - -	Use of nuclear reaction producing steam to turn the generators.
		003 - SOLAR - - - - - - - - - - - - - -	Use of the sun's energy to produce steam to turn the generators.
		004 - THERMAL - - - - - - - - - - - - -	Use of geothermal steam to turn the generators.
		006 - TIDAL - - - - - - - - - - - - - -	Use of the rise and fall of water due to tides to turn the generators.
		007 - INTERNAL COMBUSTION - - - - - - -	Use of internal combustion motor to turn the generators.
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1D020	SOLAR PANEL		A COLLECTION UNIT USED TO CONVERT SUNLIGHT INTO ELECTRICAL ENERGY OR HEAT.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Ecode	Feature	Attributes/Values	Definition
1D020	SOLAR PANEL (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE (Cont.)		Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.

Fcode	Feature	Attributes/Values	Definition
1D020	SOLAR PANEL (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE (Cont.)	
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level.to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		036 - ELECTRICITY - - - - - - - - - - -	
		037 - HEAT - - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1D030	SUBSTATION /TRANSFORMER YARD		A FACILITY ALONG A POWER LINE ROUTE OR AT THE SITE OF POWER GENERATION IN WHICH ELECTRIC CURRENT IS TRANSFORMED.
	1AO DERIVED ANGLE OF ORIENTATION CODE	Default: 63 Range: 0...31	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
	1DR DERIVED DENSITY OF ROOF COVER CODE	000 - 0 - - - - - - - - - - - - - - - -	(DA) Coded value indicating percent of Roof Cover within area of feature.
	1DS DERIVED DENSITY OF STRUCTURES CODE	000 - 0 - - - - - - - - - - - - - - - -	(DA) Coded value indicating Structure Count within area of feature.
	1DT DERIVED DENSITY OF TREE COVER CODE	000 - 0 - - - - - - - - - - - - - - - -	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
	1LN DERIVED LENGTH	Range: 0...127	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1PH DERIVED PREDOMINANT HEIGHT	Range: 0...511	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1WD DERIVED WIDTH	Range: 0...127	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	AOO ANGLE OF ORIENTATION	Default: 360 Range: 0...179	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
	COC CONSPICUOUS OBJECT CATEGORY	001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
	DIR DIRECTIVITY	002 - BI - - - - - - - - - - - - - - - -	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature. Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1D030	SUBSTATION /TRANSFORMER YARD (Cont.)		
	DMS DENSITY MEASURE (STRUCTURE COUNT) (Cont.)		Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: The PHT shall be adjusted to account for significantly taller structures if these structures occupy >= 15% of the areal feature, are > 6m taller than the predominant height of the entire area and these structures are too scattered.
		Range: 0...No Upper Limit	
	PPC POWER PLANT CATEGORY		Energy source used to generate power.
		009 - SUBSTATION - - - - - - - - - - - -	
		010 - TRANSFORMER YARD - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1D030	SUBSTATION /TRANSFORMER YARD (Cont.)		
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1F010	CHIMNEY /SMOKESTACK		A STRUCTURE CONTAINING A PASSAGE OR FLUE FOR DISCHARGING SMOKE AND GASES.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1F010	CHIMNEY /SMOKESTACK (Cont.)		
	COE	CERTAINTY OF EXISTENCE (Cont.)	
		002 - DOUBTFUL	
		003 - REPORTED	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A.	
		Range: 1...9997	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level.to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1F010	CHIMNEY /SMOKESTACK (Cont.)		
	WID	WIDTH (Cont.)	
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1F020	CONVEYOR		AN APPARATUS FOR TRANSPORTING BULK MATERIALS FROM PLACE TO PLACE BY MEANS OF A CLOSED LOOP BELT MOVING ACROSS AND SUPPORTED BY A SERIES OF ROLLERS..
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.

Fcode	Feature	Attributes/Values	Definition
1F020	CONVEYOR (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE (Cont.)	
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1F030 COOLING TOWER — A LARGE, BROAD BASED, TOWER, USUALLY CYLINDRICAL WITH CONCAVE SIDES WHICH SWEEP UPWARD ACHIEVING A CHIMNEY LIKE EFFECT, USED TO COOL LIQUIDS.

Fcode	Feature	Attributes/Values	Definition
1F030	COOLING TOWER (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: >0...No Upper Limit	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Fcode	Feature	Attributes/Values	Definition
1F030	COOLING TOWER (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1F030	COOLING TOWER (Cont.)		
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1F040	CRANE		A PERMANENTLY LOCATED MACHINE FOR LIFTING, SHIFTING, AND LOWERING OBJECTS OR MATERIALS BY MEANS OF A ROTATING BOOM OR WITH THE LIFTING APPARATUS SUPPORTED ON TRACKS. INCLUDES CRANES LOCATED ON OVERHEAD AND SURFACE TRACKS.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.

Fcode	Feature	Attributes/Values	Definition
1F040	CRANE (Cont.)		
	1DS DERIVED DENSITY OF STRUCTURES CODE (Cont.)		
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	CRA CRANE ATTRIBUTE		Type of crane.
		002 - GANTRY/BRIDGE CRANE - - - - - - - -	A crane mounted on a traversing platform with supporting towers on each end. The towers may be wheeled or on tracks.
		003 - ROTATING CRANE - - - - - - - - - -	
		004 - TOWER CRANE - - - - - - - - - - - -	Rotating crane located on a tower-like structure.
	CSD CRANE SUPPORT DISTANCE		The longest distance between the supports for a gantry/bridge crane (CRA002). Increment: 1 Meter Limits: Measured along the cross beam. Variance: N/A
		Range: > 0...No Upper Limit	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	

Fcode	Feature	Attributes/Values	Definition
1F040	CRANE (Cont.)		
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured from the center of the cab to the end of the boom, multiplied by 2. Variance: Computed for CRA 2 or 3 only.
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon estimation of the greatest vertical extension the feature may possibly define. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	LET LENGTH OF TRACK		A measurement of the distance along the tracks on which the crane set is mounted.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: 0 indicates no tracks present.
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1F040	CRANE (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		012 - MARINE	
		018 - OTHER	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER	
		080 - CONTAINER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1F050	DREDGE, POWERSHOVEL, DRAGLINE		DREDGE: AN EXCAVATING MACHINE FOR REMOVING EARTH AND SILT FROM WATERWAYS. POWERSHOVEL: AN EXCAVATING MACHINE WITH A BOOM WHICH SUPPORTS A LEVER AND BUCKET. DRAGLINE: AN EXCAVATING MACHINE WITH A BUCKET ATTACHED TO CABLES.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DMS > 679
		003 - 3	DMS > 105 and <= 679
		008 - 8	DMS > 1 and <= 105
		010 - 10	DMS = 1
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DMS = 1
		001 - 1	DMS > 1 and <= 105
		002 - 2	DMS > 105 and <= 252
		003 - 3	DMS > 252 and <= 544
		004 - 4	DMS > 544 and <= 679

Fcode	Feature	Attributes/Values	Definition
1F050	DREDGE, POWERSHOVEL, DRAGLINE (Cont.)		
	1DS DERIVED DENSITY OF STRUCTURES CODE (Cont.)		
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.

Fcode	Feature	Attributes/Values	Definition
1F050	DREDGE, POWERSHOVEL, DRAGLINE (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE (Cont.)	
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon estimation of the greatest vertical extension the feature may possibly define. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1F060	ENGINE TEST CELL		A STRUCTURE WHEREIN AIRCRAFT OR ROCKET ENGINES ARE TESTED.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Fcode	Feature	Attributes/Values	Definition
1F060	ENGINE TEST CELL (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE (Cont.)		Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1F060	ENGINE TEST CELL (Cont.)		
	DMS	DENSITY MEASURE (STRUCTURE COUNT) (Cont.)	
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1F060	ENGINE TEST CELL (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1F070 FLARE PIPE

A TALL VERTICAL PIPE USED TO BURN WASTE GASES, USUALLY THE HIGHEST STRUCTURE IN A REFINERY OR WELL FIELD.

	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2HD80, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1F070	FLARE PIPE (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE - - - - - - - - - - - -	
		003 - ON GROUND SURFACE - - - - - - - - -	Includes any inland location
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.

Fcode	Feature	Attributes/Values	Definition
1F070	FLARE PIPE (Cont.)		
	ZVL	Z VALUE (Cont.)	
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1F080	HOPPER		A TOP-LOADED FUNNEL-SHAPED STRUCTURE FOR TEMPORARY STORAGE OF LOOSE MATERIAL WHICH WILL BE DISPENSED FROM ITS BOTTOM.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - - DMS > 679 003 - 3 - - - - - - - - - - - - - - - - DMS > 105 and <= 679 008 - 8 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 010 - 10 - - - - - - - - - - - - - - - - DMS = 1	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - DMS = 1 001 - 1 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 002 - 2 - - - - - - - - - - - - - - - - DMS > 105 and <= 252 003 - 3 - - - - - - - - - - - - - - - - DMS > 252 and <= 544 004 - 4 - - - - - - - - - - - - - - - - DMS > 544 and <= 679 005 - 5 - - - - - - - - - - - - - - - - DMS > 679 and <= 825 006 - 6 - - - - - - - - - - - - - - - - DMS > 825 and <= 971 007 - 7 - - - - - - - - - - - - - - - - DMS > 971 and <= 1114 008 - 8 - - - - - - - - - - - - - - - - DMS > 1114 and <=1262 009 - 9 - - - - - - - - - - - - - - - - DMS > 1262 and <= 1408 010 - 10 - - - - - - - - - - - - - - - - DMS > 1408 and <= 1554 011 - 11 - - - - - - - - - - - - - - - - DMS > 1554 and <= 1700 012 - 12 - - - - - - - - - - - - - - - - DMS > 1700 and <= 1845 013 - 13 - - - - - - - - - - - - - - - - DMS > 1845	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - DMT = 0 001 - 1 - - - - - - - - - - - - - - - - DMT >= 1 and <= 29 003 - 3 - - - - - - - - - - - - - - - - DMT >= 30	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	

Fcode	Feature	Attributes/Values	Definition
1F080	HOPPER (Cont.)		
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.

Fcode	Feature	Attributes/Values	Definition
1F080	HOPPER (Cont.)		
	PHT PREDOMINANT HEIGHT (Cont.)		
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1H020	BATTERY		A DEFENSIVE WALL OR FORTIFICATION DESIGNED FOR MOUNTING ARTILLERY. ARTILERY MAY OR MAY NOT BE PRESENT.
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
1H045	FIRING RANGE		A LAND AREA, NORMALLY ON A MILITARY INSTALATION OR PART THEREOF, USED FOR THE TESTING, TRAINING, AND /OR PRACTICE FIRING OF WEAPONS AND WEAPON SYSTEMS.

Fcode	Feature	Attributes/Values	Definition
1H045	FIRING RANGE (Cont.)		
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1H050	FORT		A SITE OR FORTRESS USUALLY COMPOSED OF WALLS, DITCHES, OR DEFENSIVE WORKS.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.

Fcode	Feature	Attributes/Values	Definition
1H050	FORT (Cont.)		
	GHE GREATEST HORIZONTAL EXTENT (Cont.)		
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER - - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1I020	MOBILE HOME PARK		AN AREA MAINTAINED FOR THE PARKING OF INHABITED MOBILE HOMES.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Fcode	Feature	Attributes/Values	Definition
11020	MOBILE HOME PARK (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE (Cont.)		Increment: N/A Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - - - DMS > 679 003 - 3 - - - - - - - - - - - - - - - - - DMS > 105 and <= 679 008 - 8 - - - - - - - - - - - - - - - - - DMS > 1 and <= 105 010 - 10 - - - - - - - - - - - - - - - - - DMS = 1	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - - DMS = 1 001 - 1 - - - - - - - - - - - - - - - - - DMS > 1 and <= 105 002 - 2 - - - - - - - - - - - - - - - - - DMS > 105 and <= 252 003 - 3 - - - - - - - - - - - - - - - - - DMS > 252 and <= 544 004 - 4 - - - - - - - - - - - - - - - - - DMS > 544 and <= 679 005 - 5 - - - - - - - - - - - - - - - - - DMS > 679 and <= 825 006 - 6 - - - - - - - - - - - - - - - - - DMS > 825 and <= 971 007 - 7 - - - - - - - - - - - - - - - - - DMS > 971 and <= 1114 008 - 8 - - - - - - - - - - - - - - - - - DMS > 1114 and <=1262 009 - 9 - - - - - - - - - - - - - - - - - DMS > 1262 and <= 1408 010 - 10 - - - - - - - - - - - - - - - - - DMS > 1408 and <= 1554 011 - 11 - - - - - - - - - - - - - - - - - DMS > 1554 and <= 1700 012 - 12 - - - - - - - - - - - - - - - - - DMS > 1700 and <= 1845 013 - 13 - - - - - - - - - - - - - - - - - DMS > 1845	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - - DMT = 0 001 - 1 - - - - - - - - - - - - - - - - - DMT >= 1 and <= 29 003 - 3 - - - - - - - - - - - - - - - - - DMT >= 30	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.

Fcode	Feature	Attributes/Values	Definition
11020	MOBILE HOME PARK (Cont.)		
	DIR	DIRECTIVITY (Cont.)	
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMR	DENSITY MEASURE (% OF ROOF COVER)	Roof cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: If no PHT value predominates then the greatest PHT value in the aggregate shall be used. The PHT shall be adjusted to account for significantly taller structures, if these structures occupy >= 15% of the areal feature, are > 6m taller than the ...
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1J030	FEED LOT /STOCKYARD /HOLDING PEN		AN ENCLOSED AREA IN WHICH LIVESTOCK ARE TEMPORARILY KEPT.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		006 - ABANDONED - - - - - - - - - - - - - 028 - OPERATIONAL - - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - - -	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1J050	WINDMILL /WINDMOTOR		A WIND-DRIVEN SYSTEM OF VANES ATTACHED TO A TOWERLIKE STRUCTURE.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1J050	WINDMILL /WINDMOTOR (Cont.)		
	1WD DERIVED WIDTH (Cont.)		
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - - 002 - DOUBTFUL - - - - - - - - - - - - - 003 - REPORTED - - - - - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon estimation of the greatest vertical extension the feature may possibly define. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1J050	WINDMILL /WINDMOTOR (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		019 - OTHER - - - - - - - - - - - - - -	
		036 - ELECTRICITY - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC STRUCTURE SHAPE CATEGORY		Shape, appearance, or configuration of the feature.
		015 - SOLID - - - - - - - - - - - - - -	No openings in structure.
		018 - TRUSS - - - - - - - - - - - - - -	Having a lattice framework.
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1K020	AMUSEMENT PARK ATTRACTION		A LARGE STRUCTURE, OTHER THAN A BUILDING, LOCATED IN AN AMUSEMENT PARK.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.

Fcode	Feature	Attributes/Values	Definition
1K020	AMUSEMENT PARK ATTRACTION (Cont.)		
	1DS	DERIVED DENSITY OF STRUCTURES CODE (Cont.)	
		000 - 0	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	APS	AMUSEMENT PARK STRUCTURE	Type of structure observed.
		000 - UNKNOWN 001 - ARTIFICIAL MOUNTAIN 002 - FERRIS WHEEL 003 - ROLLER COASTER 004 - SPHERE 005 - OTHER	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.

Fcode	Feature	Attributes/Values	Definition
1K020	AMUSEMENT PARK ATTRACTION (Cont.)		
	DIR	DIRECTIVITY (Cont.)	
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon estimation of the greatest vertical extension the feature may possibly define. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
1K020	AMUSEMENT PARK ATTRACTION (Cont.)		
	RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measurement based upon the estimation of greatest horizontal extension the feature may define. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1K030	AMUSEMENT PARK		A MAN-MADE FACILITY EQUIPPED WITH RECREATIONAL DEVICES, ALSO GENERALLY CONTAINING ENTERTAINMENT FACILITIES OF VARIOUS KINDS AND NUMEROUS VENDORS OF FOOD, SOUVENIRS, ETC.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DMS > 679
		003 - 3	DMS > 105 and <= 679
		008 - 8	DMS > 1 and <= 105
		010 - 10	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DMS = 1
		001 - 1	DMS > 1 and <= 105
		002 - 2	DMS > 105 and <= 252
		003 - 3	DMS > 252 and <= 544
		004 - 4	DMS > 544 and <= 679
		005 - 5	DMS > 679 and <= 825
		006 - 6	DMS > 825 and <= 971
		007 - 7	DMS > 971 and <= 1114
		008 - 8	DMS > 1114 and <=1262
		009 - 9	DMS > 1262 and <= 1408
		010 - 10	DMS > 1408 and <= 1554
		011 - 11	DMS > 1554 and <= 1700
		012 - 12	DMS > 1700 and <= 1845
		013 - 13	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	DMT = 0
		001 - 1	DMT >= 1 and <= 29
		003 - 3	DMT >= 30
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Ecode	Feature	Attributes/Values	Definition
1K030	AMUSEMENT PARK (Cont.)		
	1LN DERIVED LENGTH (Cont.)		
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMR DENSITY MEASURE (% OF ROOF COVER)		Roof cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1K030	AMUSEMENT PARK (Cont.)		
	LNC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: If no PHT value predominates then the greatest PHT value in the aggregate shall be used. The PHT shall be adjusted to account for significantly taller structures, if these structures occupy >= 15% of the areal feature, are > 6m taller than the ...
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K040	ATHLETIC FIELD		A DEFINED BUT OFTEN UNBOUNDED OPEN AREA, NOT ASSOCIATED WITH A STADIUM, CONSTRUCTED AND MAINTAINED FOR THE PURPOSE OF HOLDING SPORTING EVENTS AND ACTIVITIES.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	

Fcode	Feature	Attributes/Values	Definition
1KD40	ATHLETIC FIELD (Cont.)		
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1KD60	CAMPGROUND /CAMPSITE		A LOCATION DESIGNED, PREPARED, AND MAINTAINED FOR CAMPING.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
1KD70	DRIVE-IN THEATER		A PLACE WHERE MOTION PICTURES ARE SHOWN WHILE VIEWERS REMAIN IN THEIR VEHICLES.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1K070	DRIVE-IN THEATER (Cont.)		
	ACO	ANGLE OF ORIENTATION (Cont.)	
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1KD80	DRIVE-IN THEATER SCREEN		A LARGE OUTDOOR SCREEN FOR SHOWING MOTION PICTURES.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1KD80	DRIVE-IN THEATER SCREEN (Cont.)		
	1WD DERIVED WIDTH (Cont.)		
			Increment:
			Limits: N/A
			Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree
			Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature.
			Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter
			Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature.
			Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter
			Limits: Measured along a straight line.
			Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter
			Limits: N/A
			Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
1KD80	DRIVE-IN THEATER SCREEN (Cont.)		
	HGT HEIGHT ABOVE SURFACE LEVEL (Cont.)		
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
1KD90	FAIRGROUNDS		AN AREA WHERE OUTDOOR FAIRS, CIRCUSES OR EXHIBITIONS ARE HELD, ALSO INCLUDING EXHIBIT HALLS AND OTHER STRUCTURES.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1K090	FAIRGROUNDS (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K100	GOLF COURSE		AN AREA OF LAND LAID OUT FOR THE GAME OF GOLF.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1K100	GOLF COURSE (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K110	GRANDSTAND		A SINGLE FREESTANDING STRUCTURE, SOMETIMES ROOFED, USUALLY LOCATED ON ONE SIDE OF AN AREA ONLY AND COMPOSED OF TIERS OF SEATS ENABLING SPECTATORS TO VIEW EVENTS OR ACTIVITIES.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - - DMS > 679 003 - 3 - - - - - - - - - - - - - - - - DMS > 105 and <= 679 008 - 8 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 010 - 10 - - - - - - - - - - - - - - - - DMS = 1	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - DMS = 1 001 - 1 - - - - - - - - - - - - - - - - DMS > 1 and <= 105 002 - 2 - - - - - - - - - - - - - - - - DMS > 105 and <= 252 003 - 3 - - - - - - - - - - - - - - - - DMS > 252 and <= 544 004 - 4 - - - - - - - - - - - - - - - - DMS > 544 and <= 679 005 - 5 - - - - - - - - - - - - - - - - DMS > 679 and <= 825 006 - 6 - - - - - - - - - - - - - - - - DMS > 825 and <= 971 007 - 7 - - - - - - - - - - - - - - - - DMS > 971 and <= 1114 008 - 8 - - - - - - - - - - - - - - - - DMS > 1114 and <=1262 009 - 9 - - - - - - - - - - - - - - - - DMS > 1262 and <= 1408 010 - 10 - - - - - - - - - - - - - - - - DMS > 1408 and <= 1554 011 - 11 - - - - - - - - - - - - - - - - DMS > 1554 and <= 1700 012 - 12 - - - - - - - - - - - - - - - - DMS > 1700 and <= 1845 013 - 13 - - - - - - - - - - - - - - - - DMS > 1845	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	

Fcode	Feature	Attributes/Values	Definition
1K110	GRANDSTAND (Cont.)		
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.

Fcode	Feature	Attributes/Values	Definition
1K110	GRANDSTAND (Cont.)		
	PHT	PREDOMINANT HEIGHT (Cont.)	
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K115	OUTDOOR THEATER /AMPHITHEATER		AN OPEN AIR THEATRE OR AUDITORIUM WITH SEATING FACILITIES GENERALLY SLOPINGDOWN TO A CENTRAL OR FRONTAL STAGE AREA.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1K115	OUTDOOR THEATER /AMPHITHEATER (Cont.)		
	WID	WIDTH (Cont.)	
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K120	PARK		A PREDOMINANTLY NATURAL OR LANDSCAPED AREA USED FOR RECREATIONAL OR ORNAMENTAL PURPOSES.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		004 - NATIONAL 010 - OTHER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1K130	RACE TRACK		A CLOSED CIRCUIT LAND BASED COURSE, NOT ASSOCIATED WITH A STADIUM, USED FOR ANY TYPE OF RACING.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1K140	RECREATIONAL VEHICLE AREA		A LOCATION DESIGNED, PREPARED, AND MAINTAINED FOR THE SHORT TERM STAY OF SEVERAL RECREATIONAL VEHICLES.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1K140	RECREATIONAL VEHICLE AREA (Cont.)		
	ACO ANGLE OF ORIENTATION (Cont.)		Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K150	SKI JUMP		A RAMP, SNOWPACKED WHEN IN SEASON, USED FOR SKI JUMPING.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.

Fcode	Feature	Attributes/Values	Definition
1K150	SKI JUMP (Cont.)		
	DIR	DIRECTIVITY (Cont.)	
		001 - RIGHT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - -	Open - Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - -	Trees - Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - -	Structures - Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A Range: > 0...No Upper Limit
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A Range: > 0...No Upper Limit
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A Range: 0...No Upper Limit
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.

Ecode	Feature	Attributes/Values	Definition
1K150	SKI JUMP (Cont.)		
	ZVL Z VALUE (Cont.)		
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1K160 STADIUM

A SPORTS ARENA HAVING TIERS OF SEATS PARTIALLY AROUND OR SURROUNDING A PLAYING /ACTIVITY AREA WHERE GAMES, CONTESTS, OR CONCERTS, ETC. ARE HELD.

1AO DERIVED ANGLE OF ORIENTATION CODE .....

For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Increment:
Limits: N/A
Variance: N/A

Default: 63
Range: 0...31

1DR DERIVED DENSITY OF ROOF COVER CODE .....

(DA) Coded value indicating percent of Roof Cover within area of feature.

002 - 2	DNS > 679
003 - 3	DNS > 105 and <= 679
008 - 8	DNS > 1 and <= 105
010 - 10	DNS = 1

1DS DERIVED DENSITY OF STRUCTURES CODE .....

(DA) Coded value indicating Structure Count within area of feature.

000 - 0	DNS = 1
001 - 1	DNS > 1 and <= 105
002 - 2	DNS > 105 and <= 252
003 - 3	DNS > 252 and <= 544
004 - 4	DNS > 544 and <= 679
005 - 5	DNS > 679 and <= 825
006 - 6	DNS > 825 and <= 971
007 - 7	DNS > 971 and <= 1114
008 - 8	DNS > 1114 and <=1262
009 - 9	DNS > 1262 and <= 1408
010 - 10	DNS > 1408 and <= 1554
011 - 11	DNS > 1554 and <= 1700
012 - 12	DNS > 1700 and <= 1845
013 - 13	DNS > 1845

1DT DERIVED DENSITY OF TREE COVER CODE .....

(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.

000 - 0

1HT DERIVED HEIGHT .....

For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...511

1LN DERIVED LENGTH .....

For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

1WD DERIVED WIDTH .....

For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

Fcode	Feature	Attributes/Values	Definition
1K160	STADIUM (Cont.)		
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existance.
		001 - DEFINITE - - - - - - - - - - - - - 002 - DOUBTFUL - - - - - - - - - - - - - 003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.

Fcode	Feature	Attributes/Values	Definition
1K160	STADIUM (Cont.)		
	GHE	GREATEST HORIZONTAL EXTENT (Cont.)	
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		024 - ENCLOSED - - - - - - - - - - - - - -	Athletic field is completely surrounded by seating..
		040 - DOME - - - - - - - - - - - - - - - -	Facility is covered by a domed roof.
		046 - OPEN - - - - - - - - - - - - - - - -	Athletic field is partially surrounded by seating..
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

Fcode	Feature	Attributes/Values	Definition
1K170	SWIMMING POOL		A CONSTRUCTED BASIN USED FOR SWIMMING.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1K180	ZOO		AN AREA WITH A COLLECTION OF LIVE ANIMALS USUALLY FOR PUBLIC DISPLAY.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1K180	ZOO (Cont.)		
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L015	BUILDING		A RELATIVELY PERMANENT STRUCTURE, ROOFED AND USUALLY WALLED AND DESIGNED FOR SOME PARTICULAR USE.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: 5 Degrees Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DNS > 679
		003 - 3	DNS > 105 and <= 679
		008 - 8	DNS > 1 and <= 105
		010 - 10	DNS = 1
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DNS = 1
		001 - 1	DNS > 1 and <= 105
		002 - 2	DNS > 105 and <= 252
		003 - 3	DNS > 252 and <= 544
		004 - 4	DNS > 544 and <= 679
		005 - 5	DNS > 679 and <= 825
		006 - 6	DNS > 825 and <= 971
		007 - 7	DNS > 971 and <= 1114
		008 - 8	DNS > 1114 and <=1262
		009 - 9	DNS > 1262 and <= 1408
		010 - 10	DNS > 1408 and <= 1554
		011 - 11	DNS > 1554 and <= 1700
		012 - 12	DNS > 1700 and <= 1845
		013 - 13	DNS > 1845
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	DNT = 0
		001 - 1	DNT >= 1 and <= 29
		003 - 3	DNT >= 30
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	

Fcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
		004 - NOT APPLICABLE - - - - - - - - - -	
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	ARE	AREA WITH GREATER PRECISION	The absolute area within the delineation of the feature measured with greater precision.
			Increment: 0.1 Square Meter Limits: N/A Variance: N/A
		Range: 0.1...30480000.0	
	BFC	BUILDING FUNCTION CATEGORY	Type or primary purpose of the building.
		000 - UNKNOWN - - - - - - - - - - - -	
		001 - FABRICATION STRUCTURE - - - - - -	
		002 - GOVERNMENT BUILDING - - - - - - -	Any government building not covered under another BFC.
		003 - CAPITOL BUILDING - - - - - - - -	
		004 - CASTLE - - - - - - - - - - - - -	A large building or group of buildings fortified with thick walls, battlements, and often a moat.
		005 - GOVERNMENT ADMINISTRATION BUILDING	
		006 - HOSPITAL - - - - - - - - - - - -	
		007 - HOUSE OF WORSHIP - - - - - - - -	
		008 - MILITARY ADMINISTRATION / OPERATIONS BUILDING - - - - - -	
		009 - MUSEUM - - - - - - - - - - - - -	
		010 - OBSERVATORY - - - - - - - - - - -	A building that houses optical and/or electronic astronomical observation equipment.
		011 - PALACE - - - - - - - - - - - - -	A large, magnificent residential house or building, often the residence of a king, emperor, bishop, etc.
		012 - POLICE STATION - - - - - - - - -	
		013 - PRISON - - - - - - - - - - - - -	
		014 - RANGER STATION - - - - - - - - -	
		015 - SCHOOL - - - - - - - - - - - - -	
		016 - HOUSE - - - - - - - - - - - - -	A single family dwelling.
		017 - MULTI UNIT DWELLING - - - - - - -	
		018 - CEMETERY BUILDING - - - - - - - -	
		019 - FARM BUILDING - - - - - - - - - -	Any building on a farm not adequately described by another BFC.
		020 - GREENHOUSE - - - - - - - - - - -	
		021 - GARAGE - - - - - - - - - - - - -	
		022 - WATERMILL /GRISTMILL - - - - - - -	
		023 - WIND TUNNEL - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	BFC	BUILDING FUNCTION CATEGORY (Cont.)	
		024 - WAREHOUSE	A large primary storage building, usually of substantial construction.
		025 - ROUNDHOUSE	A circular or semicircular building, with a turntable in the center, used for storing and repairing locomotives.
		026 - R /R STORAGE /REPAIR FACILITY	Excludes roundhouses.
		027 - PASSENGER TERMINAL	
		028 - ADMINISTRATION BUILDING	
		029 - AIRCRAFT MAINTENANCE SHOP	
		031 - CUSTOM HOUSE	
		032 - HARBOR MASTER'S OFFICE	
		033 - HEALTH OFFICE	
		035 - POST OFFICE	
		036 - BARRACKS /DORMITORY	A building providing common living quarters for soldiers, students, workers, etc.
		037 - FIRE STATION	
		039 - OTHER	
		040 - KENNEL	
		041 - GUARD SHACK	
		050 - LIGHTHOUSE	
		051 - HOTEL	
		052 - DIPLOMATIC BUILDING	Any building associated with an embassy or ambassador.
		053 - COURT HOUSE	
		054 - NEWS PAPER PLANT	
		055 - BANK	
		056 - LAB /RESEARCH FACILITY	
		057 - TELEPHONE EXCHANGE (MAIN)	
		058 - AUDITORIUM	
		059 - OPERA HOUSE	
		060 - PROCESSING /TREATMENT	
		061 - POWER GENERATION	
		062 - PUMPHOUSE	Located at Pumping Station (1L180)
		063 - MOBILE HOME	
		064 - WEATHER STATION	
		065 - DEPENDENTS HOUSING /BIVOUAC AREA	
		066 - COMMUNICATIONS BUILDING	
	BNF	BUILDING NUMBER OF FLOORS	The number of floors the feature has. Increment: 1 Floor Limits: N/A Variance: N/A
		Default: 21 = >20 Range: 1...20	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	DBS	DIPLOMATIC BUILDING STRUCTURE	Type of diplomatic building at this location.
		000 - UNKNOWN	
		001 - LEGATION	
		002 - MISSION	
		003 - CHANCERY	
		004 - AMBASSADOR RESIDENCE	
		005 - OTHER	
		006 - EMBASSY	
		007 - CONSULATE	
		008 - NOT APPLICABLE	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	

Fcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EBT	EDUCATIONAL BUILDING TYPE	Type of school complex with which this building is associated..
		000 - UNKNOWN	
		001 - ACADEMY	
		002 - COLLEGE	
		003 - EDUCATIONAL CENTER	
		004 - LYCEUM	
		005 - UNIVERSITY	
		006 - SEMINARY	
		007 - OTHER	
		008 - NOT APPLICABLE	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN	
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	For lighthouses (EFC 050), no longer used to support a navigational light.
		007 - DESTROYED	
		028 - OPERATIONAL	
	FCM	FEATURE CONSTRUCTION MATERIAL CODE	A code indicating the construction materials comprising the feature.
		000 - UNKNOWN	
		001 - C	Concrete
		002 - L	Concrete and Steel
		003 - D	Concrete and Wood
		004 - M	Masonry
		005 - N	Masonry and Steel
		006 - R	Masonry and Wood
		007 - S	Steel
		008 - T	Steel and Wood
		009 - W	Wood
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	HDG HANGAR DOOR HEIGHT		The measurement of the vertical extent of the hangar door.
			Increment: 0.1 Meter Limits: 0 = Not Applicable Variance: N/A
		Default: 0=Not Applicable Range: 0.1...999.9	
	HDW HANGAR DOOR WIDTH		The measurement of the horizontal extent of the hangar door.
			Increment: 0.1 Meter Limits: 0 = Not Applicable Variance: N/A
		Default: 0=Not Applicable Range: 0.1...999.9	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	HRK BUILDING REMARKS		Any remarks on building, to include: security, services, facilities, etc.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	HTP HANGAR TYPE CATEGORY		Hangar design.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - M - - - - - - - - - - - - - - - -	Multi-bay
		002 - O - - - - - - - - - - - - - - - -	Open end
		003 - N - - - - - - - - - - - - - - - -	Nose in
		004 - G - - - - - - - - - - - - - - - -	Underground
		005 - S - - - - - - - - - - - - - - - -	Single bay
		006 - D - - - - - - - - - - - - - - - -	Double bay
		007 - T - - - - - - - - - - - - - - - -	T-Shaped
		008 - NOT APPLICABLE - - - - - - - - - -	
	HWT HOUSE OF WORSHIP TYPE		Type of house of worship used.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - CATHEDRAL - - - - - - - - - - - -	The church housing the bishop's seat.
		003 - CHAPEL - - - - - - - - - - - - - -	A place of christian worship, smaller and subordinate to a church.
		004 - CHURCH - - - - - - - - - - - - - -	
		005 - MARABOUT - - - - - - - - - - - - -	Tomb or shrine of Muslim holy man.
		006 - MINARET - - - - - - - - - - - - - -	A tall slender free standing structure associated with a mosque.
		007 - MONASTERY, CONVENT - - - - - - - - -	A dwelling of a religious community.
		009 - MOSQUE - - - - - - - - - - - - - -	A muslim temple or place of worship.
		011 - PAGODA - - - - - - - - - - - - - -	A temple in the form of a pyramidal tower of several stories.
		014 - SHRINE - - - - - - - - - - - - - -	A place or structure esteemed for its religious value and not covered by another HWT.
		015 - TABERNACLE - - - - - - - - - - - -	
		016 - TEMPLE - - - - - - - - - - - - - -	
		020 - SYNAGOGUE - - - - - - - - - - - - -	
		021 - STUPA - - - - - - - - - - - - - - -	A dome shaped Buddist shrine.
		022 - NOT APPLICABLE - - - - - - - - - -	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER - - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP LENGTH WITH GREATER PRECISION		The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	LGP	LENGTH WITH GREATER PRECISION (Cont.)	
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PPC	POWER PLANT CATEGORY	Energy source used to generate power.
		000 - UNKNOWN - - - - - - - - - - - -	
		001 - HYDRO-ELECTRIC - - - - - - - - -	Use of water pressure to turn the generators.
		002 - NUCLEAR - - - - - - - - - - - -	Use of nuclear reaction producing steam to turn the generators.
		003 - SOLAR - - - - - - - - - - - - -	Use of the sun's energy to produce steam to turn the generators.
		004 - THERMAL - - - - - - - - - - - -	Use of geothermal steam to turn the generators.
		006 - TIDAL - - - - - - - - - - - - -	Use of the rise and fall of water due to tides to turn the generators.
		007 - INTERNAL COMBUSTION - - - - - - -	Use of internal combustion motor to turn the generators.
		008 - NOT APPLICABLE - - - - - - - - -	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		006 - CHEMICAL - - - - - - - - - - - -	
		008 - COKE - - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - -	
		027 - WATER - - - - - - - - - - - - - -	
		033 - METAL - - - - - - - - - - - - - -	
		035 - SEWAGE - - - - - - - - - - - - -	
		060 - NOT APPLICABLE - - - - - - - - -	
	REL	RELIGIOUS DENOMINATION	Name of the religious order at site.
		000 - UNKNOWN - - - - - - - - - - - -	
		001 - BUDDHIST - - - - - - - - - - - -	
		002 - CHRISTIAN - - - - - - - - - - -	
		003 - ISLAMIC - - - - - - - - - - - -	
		004 - JEWISH - - - - - - - - - - - - -	
		012 - SHINTO - - - - - - - - - - - - -	
		019 - NOT APPLICABLE - - - - - - - - -	
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSR	STRUCTURE SHAPE OF ROOF	Roof shape.
		000 - UNKNOWN - - - - - - - - - - - -	
		038 - CURVED (CONVEX) - - - - - - - - -	
		040 - DOME - - - - - - - - - - - - - -	
		041 - FLAT - - - - - - - - - - - - - -	
		042 - GABLE (PITCHED) - - - - - - - - -	
		047 - SAWTOOTH - - - - - - - - - - - -	

Pcode	Feature	Attributes/Values	Definition
1L015	BUILDING (Cont.)		
	SSR	STRUCTURE SHAPE OF ROOF (Cont.)	
		055 - FLAT WITH MONITOR	Having a raised portion used to provide light or air.
		064 - GABLE WITH MONITOR	Having a raised portion used to provide light or air.
		070 - OTHER	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		000 - UNKNOWN	
		003 - RAILROAD	
		012 - MARINE	
		013 - AIR	
		014 - BUS	
		021 - NOT APPLICABLE	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		000 - UNKNOWN	
		008 - MILITARY	
		011 - MOTEL /HOTEL	
		012 - APARTMENT	
		041 - INDUSTRIAL	
		042 - COMMERCIAL	
		043 - HOSPITAL	
		044 - RESIDENTIAL	
		045 - AGRICULTURAL	
	VOL	VOLUME	Volume/Occupancy Level. This descriptor has multiple meanings/applications: Size or capacity of industry, amount of activity, or vehicle occupation (i.e., *numbers of* automobiles/trucks, aircraft, RR cars, ships, etc.
		002 - LIGHT	
		004 - HEAVY	
		005 - NOT APPLICABLE	
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to *LGP* or *LEN* (if present).
			Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...*No Upper Limit*	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1L018	BUILDING SUPERSTRUCTURE ADDITION		A SUPPLEMENTAL PORTION OF A BUILDING WHICH RISES FROM THE ROOF *BUT IS NOT CONSIDERED TO BE PART OF THE GENERAL ROOF LINE.*
	BFC	BUILDING FUNCTION CATEGORY	Type or primary purpose of the building.
		007 - HOUSE OF WORSHIP	
		039 - OTHER	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or *offshore*), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Fcode	Feature	Attributes/Values	Definition
1L018	BUILDING SUPERSTRUCTURE ADDITION (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	HWT	HOUSE OF WORSHIP TYPE	Type of house of worship used.
		002 - CATHEDRAL	The church housing the bishop's seat.
		003 - CHAPEL	A place of christian worship, smaller and subordinate to a church.
		004 - CHURCH	
		007 - MONASTERY, CONVENT	A dwelling of a religious community.
		009 - MOSQUE	A muslim temple or place of worship.
		015 - TABERNACLE	
		016 - TEMPLE	
		020 - SYNAGOGUE	
		022 - NOT APPLICABLE	
	RSU	ROOF SUPERSTRUCTURE CATEGORY	Structures extending upward from the roof.
		002 - DOME	
		004 - CUPOLA	A small, usually dome-shaped, structure on a roof.
		005 - TOWER	Any tall, narrow structure on the roof of a building.
		006 - MINARET	

1L020	BUILT-UP AREA		A CONCENTRATION OF STRUCTURES AND BUILDINGS SERVING AS DWELLINGS OR ZONES OF OCCUPANCY, AND USUALLY IN CONJUNCTION WITH A WELL DEFINED ROAD /STREET PATTERN.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BAC	BUILT-UP AREA CLASSIFICATION	The indication of the relative density of the Built-Up Area.
		001 - SPARSE TO MODERATE	Most buildings coalesce in a side to side direction along the street, but space between the backs of the buildings is such that coalescence does not occur, when plotted at point symbol size (25 m x 25 m on ground).
		002 - DENSE	Most buildings coalesce both side to side and back to back, when plotted at point symbol size (25 m x 25 m on ground).
		004 - SUBURBAN	Most buildings do not coalesce either side-to-side, or back-to-back, but are still part of a contiguous built-up area pattern. This does not include widely scattered outlying buildings.
	CFD	CULTURAL FEATURE DENSITY	The measure of the concentration of buildings and other cultural features within the delineation of this feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	COD	CERTAINTY OF DELINEATION	Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN	
		002 - LIMITS AND INFO UNKNOWN	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1L020	BUILT-UP AREA (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DMR	DENSITY MEASURE (% OF ROOF COVER)	Roof cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	DUA	DESIGNATED URBAN AREA ATTRIBUTE	Indicates whether a selected urban area is recorded on the "Designated Urban Area List".
		001 - URBAN AREA NAME IS NOT LISTED 002 - URBAN AREA NAME IS LISTED	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		007 - DESTROYED	>= 75% destroyed.
		035 - OTHER	
		043 - PARTIALLY DESTROYED	< 75% destruction.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PH3	PREDOMINANT HEIGHT (5 M RANGE)	Predominant height range of a specified urban area (reported in 5 meter ranges).
		000 - UNKNOWN 001 - <= 5 002 - > 5 AND <= 10 003 - > 10 AND <= 15 004 - > 15 AND <= 20	

Fcode	Feature	Attributes/Values	Definition
1L020	BUILT-UP AREA (Cont.)		
	PHD PREDOMINANT HEIGHT (5 M RANGE) (Cont.)		
		005 - > 20 AND <= 25	
		006 - > 25 AND <= 30	
		007 - > 30 AND <= 35	
		008 - > 35 AND <= 40	
		009 - > 40 AND <= 45	
		010 - > 45 AND <= 50	
		011 - > 50 AND <= 55	
		012 - > 55 AND <= 60	
		013 - > 60 AND <= 65	
		014 - > 65 AND <= 70	
		015 - > 70 AND <= 75	
		016 - > 75 AND <= 80	
		017 - > 80 AND <= 85	
		018 - > 85 AND <= 90	
		019 - > 90 AND <= 95	
		020 - > 95 AND <= 100	
		021 - > 100	
		022 - NOT APPLICABLE	
	PH4 PREDOMINANT HEIGHT (10 M RANGE)		Predominant height range of a specified urban area (reported in 10 meter ranges).
		000 - UNKNOWN	
		001 - <= 10	
		002 - > 10 AND <= 20	
		003 - > 20 AND <= 30	
		004 - > 30 AND <= 40	
		005 - > 40 AND <= 50	
		006 - > 50 AND <= 60	
		007 - > 60 AND <= 70	
		008 - > 70 AND <= 80	
		009 - > 80 AND <= 90	
		010 - > 90 AND <= 100	
		011 - > 100	
		012 - NOT APPLICABLE	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PIA PORT INDEX ATTRIBUTE		Indicates the presence of a port, as identified in the World Port Index.
		001 - PORT IS IN WORLD PORT INDEX	
		002 - PORT IS NOT IN WORLD PORT INDEX	
	PLU PREDOMINANT LAND USE		Predominant land use is that land use which accounts for 60 percent or more of the delineated built-up area.
		000 - UNKNOWN	Urban area for which neither a predominant use nor a mixture of uses can be determined from the source material.
		001 - MILITARY	Cantonment areas and associated facilities (troop quarters, depots, vehicle parks, repair and service shops, etc.), owned, operated or used by the armed forces, excluding open space, maneuver areas, and other non-built-up areas.
		002 - INDUSTRIAL	Areas and related facilities engaged in light (design, assembly, finishing, processing, and packaging) or heavy (metal processing, rolling, fabrication, pulp and lumber, oil refineries, shipyards, etc.) manufacturing activities.
		005 - COMMERCIAL	Area of retail, wholesale, financial, office, hotel, and other establishments used primarily for the sale and exchange of goods and services. If PLU022 not in use, also includes transportation and storage facilities.
		006 - RESIDENTIAL	Area devoted to the living accommodations (dwellings units from small huts to high-rise apartments) of human beings. Area may be interspersed with small shopping centers, churches, schools, police and fire stations, etcetera.
		012 - GOVERNMENTAL AND INSTITUTIONAL	Areas and complexes used for governmental, educational, penal, research, care of the aged, and other administrative purposes. If PLU023 is not in use, also includes medical facilities and hospitals.
		016 - RECREATIONAL AND RELIGIOUS AREAS	Large sports or religious complexes and other facilities used for athletic, recreational, or religious activities, such as fairgrounds, ice rinks, baseball and football fields, stadium facilities, churches, temples and mosques.
		019 - UTILITIES AND COMMUNICATION	Land areas used by utilities, and for the storage of bulk goods, and airwave communications, such as those involved in the processing and treatment of water, gas, oil, and electricity, and communication stations and antenna farms.

Fcode	Feature	Attributes/Values	Definition
1L020	BUILT-UP AREA (Cont.)		
	PLU	PREDOMINANT LAND USE (Cont.)	
		020 - MIXED URBAN OR BUILT-UP LAND	Built-up area where no single use category predominants (mixed land use classifications at map scale). These will generally be a mixture of residential and commerical uses, although any combination is possible.
		021 - OTHER URBAN OR BUILT-UP LAND	Other types of urban land use(s) not identified or adequately described by the above categories..
		022 - TRANSPORTATION	Large blocks of land used for transportation purposes, such as large terminals, trans-shipment points, storage and repair facilities, associated with the movement of goods and personnel by road, rail, canal, airway, or pipeline.
		023 - MEDICAL/MEDICAL COMPLEXES	The area of a large hospital complex or medical research institution with its associated structures and facilities used for the care and treatment of patients or biological research.
	USP	URBAN STREET PATTERN	The predominant geometric configuration of streets found within the delineated area of the feature.
		000 - UNKNOWN	
		002 - RECTANGULAR /GRID-REGULAR	
		003 - RECTANGULAR /GRID-IRREGULAR	
		004 - CURVILINEAR (CLUSTER)	
		006 - CONCENTRIC /RADIAL-REGULAR	
		007 - CONCENTRIC /RADIAL-IRREGULAR	
		008 - MIXED	
		009 - MIXED-CURVILINEAR (CLUSTER) AND RECTANGULAR (GRID)	
		010 - MIXED-CONCENTRIC/RADIAL AND RECTANGULAR (GRID)	
		011 - MIXED-CURVILINEAR (CLUSTER) AND CONCENTRIC /RADIAL	
		012 - OTHER	
		013 - LINEAR/STRIP	
		014 - RADIAL, REGULAR	
		015 - RADIAL, IRREGULAR	
		016 - CONCENTRIC, REGULAR	
		017 - CANALS, REGULAR	
		018 - CANALS, IRREGULAR	
		019 - CONTOUR, CONFORMING (REGULAR CONTOURING)	
		020 - CONTOURING, IRREGULAR	
		021 - MEDIEVAL/PREINDUSTRIAL, IRREGULAR	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L025	CAIRN		A HEAP OF STONES PILED UP AS A MEMORIAL OR A LANDMARK.
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	

Fcode	Feature	Attributes/Values	Definition
1L025	CAIRN (Cont.)		
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
1L030	CEMETERY		AN AREA OF LAND FOR INTERMENT OF THE DEAD.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DPS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		031 - ISOLATED - - - - - - - - - - - -	
		042 - NOT ISOLATED - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	REL	RELIGIOUS DENOMINATION	Name of the religious order at site.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - BUDDHIST - - - - - - - - - - - - -	
		002 - CHRISTIAN - - - - - - - - - - - -	
		003 - ISLAMIC - - - - - - - - - - - - -	
		004 - JEWISH - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1L030	CEMETERY (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L045 COMPLEX OUTLINE — AN OUTLINE DELIMITING AN AREA IN WHICH TWO OR MORE LIKE FEATURES HAVE THE SAME FUNCTION.

APT	AIRCRAFT FACILITY TYPE	The facility type based upon the primary kind of aircraft that use this feature and/or the type of landing area(s) available.
	000 - UNKNOWN	
	001 - AIRPORT	This feature is intended to be used primarily by conventional, fixed wing aircraft.
	002 - HELIPORT	This feature is intended to be used primarily by rotary wing and /or VTOL aircraft.
	003 - SEAPLANE BASE	This feature has water as the surface of its principle landing area(s).
	004 - UNDEFINED LANDING AREA	A maintained but unimproved natural area without defined runway(s) used for aircraft landing and take off. Dimensions (LEN and WID) are of the overall landing area.
BFC	BUILDING FUNCTION CATEGORY	Type or primary purpose of the building.
	000 - UNKNOWN	
	001 - FABRICATION STRUCTURE	
	002 - GOVERNMENT BUILDING	Any government building not covered under another BFC.
	006 - HOSPITAL	
	007 - HOUSE OF WORSHIP	
	008 - MILITARY ADMINISTRATION / OPERATIONS BUILDING	
	015 - SCHOOL	
	016 - HOUSE	A single family dwelling.
	017 - MULTI UNIT DWELLING	
	020 - GREENHOUSE	
	021 - GARAGE	
	024 - WAREHOUSE	A large primary storage building, usually of substantial construction.
	028 - ADMINISTRATION BUILDING	
	029 - AIRCRAFT MAINTENANCE SHOP	
	030 - HANGAR	A building designed to contain one or more aircraft.
	036 - BARRACKS /DORMITORY	A building providing common living quarters for soldiers, students, workers, etc.
	038 - SHED	A small secondary storage structure, generally of light construction.
	041 - GUARD SHACK	
	056 - LAB /RESEARCH FACILITY	
	060 - PROCESSING /TREATMENT	
	061 - POWER GENERATION	
	062 - PUMPHOUSE	Located at Pumping Station (1L180)
EXS	EXISTENCE CATEGORY	The state or condition of the feature.
	005 - UNDER CONSTRUCTION	
	028 - OPERATIONAL	
IDN	IDENTIFICATION NUMBER	A unique number relating specific interior map /chart features to border information.
	000 - ANY NUMBER	
MSA	MISSILE SITE ATTRIBUTE	Configuration of site.
	001 - DISPERSED	A site where launchers from a single operational unit (battery) are separated by a distance greater than their normal site configuration.
	002 - MULTIPLE	A site containing missile launchers from two or more operational units (batteries).
	003 - SINGLE	A site containing missile launchers all belonging to the same operational unit (battery).
MST	MISSILE SITE TYPE	Class of missile at site.

Fcode	Feature	Attributes/Values	Definition
1L045	COMPLEX OUTLINE (Cont.)		
	MST MISSILE SITE TYPE (Cont.)		
		000 - UNKNOWN	
		001 - ABM	
		002 - ICBM	
		003 - IRBM	
		004 - SA1	
		005 - SA2	
		006 - SA3	
		007 - SA4	
		008 - SA5	
		009 - SA6	
		010 - SA7	
		011 - SA8	
		012 - SA9	
		013 - MRBM	
		014 - SSN	
		016 - OTHER	
		017 - SA10	
	PPC POWER PLANT CATEGORY		Energy source used to generate power.
		000 - UNKNOWN	
		001 - HYDRO-ELECTRIC	Use of water pressure to turn the generators.
		002 - NUCLEAR	Use of nuclear reaction producing steam to turn the generators.
		003 - SOLAR	Use of the sun's energy to produce steam to turn the generators.
		004 - THERMAL	Use of geothermal steam to turn the generators.
		006 - TIDAL	Use of the rise and fall of water due to tides to turn the generators.
		007 - INTERNAL COMBUSTION	Use of internal combustion motor to turn the generators.
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		000 - UNKNOWN	
		001 - ALUMINUM	
		003 - ASPHALT	
		004 - BRICK	
		005 - CEMENT	
		006 - CHEMICAL	
		008 - COKE	
		010 - COPPER	
		011 - EXPLOSIVES	
		013 - GASOLINE	
		014 - GLASS	
		015 - GOLD	
		016 - IRON	
		017 - LEAD	
		018 - OIL	
		019 - OTHER	
		020 - PAPER	
		021 - RADIOACTIVE MATERIAL	
		022 - RUBBER	
		024 - SILVER	
		025 - STEEL	
		026 - VEGETATION PRODUCTS	Food Processing.
		027 - WATER	
		028 - URANIUM	
		029 - ZINC	
		033 - METAL	
		035 - SEWAGE	
		047 - LUMBER	

1L050	DISPLAY SIGN		A LARGE SELF SUPPORTED UPRIGHT PANEL USED TO CONVEY VISUAL INFORMATION.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1L050	DISPLAY SIGN (Cont.)		
	1HT DERIVED HEIGHT (Cont.)		
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...127	
	ANO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A *conspicuous* object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EDC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
1L050	DISPLAY SIGN (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE - - - - - - - - - - - -	
		003 - ON GROUND SURFACE - - - - - - - -	Includes any inland location
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		000 - UNKNOWN - - - - - - - - - - - - -	
		010 - OTHER - - - - - - - - - - - - - -	
		017 - ADVERTISING BILLBOARD - - - - - -	
		018 - SCOREBOARD - - - - - - - - - - -	
		019 - HIGHWAY SIGN - - - - - - - - - -	
		057 - MARINE - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1L060	DRAGON (TIGER) TEETH		REGULARLY SPACED CONCRETE OR METAL BARRIERS LAID IN SINGLE OR MULTIPLE ROWS TO PREVENT VEHICLE MOVEMENT.
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.

Fcode	Feature	Attributes/Values	Definition
1L060	DRAGON (TIGER) TEETH (Cont.)		
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY (Cont.)	
		001 - > 1.5 AND <= 5.0 PFH 002 - > 5.0 AND <= 10.0 PFH 003 - > 10.0 AND <= 20.0 PFH 004 - > 20.0 AND <= 40.0 PFH 005 - > 40.0 PFH 006 - NOT APPLICABLE	
	ARA	AREA COVERAGE ATTRIBUTE Range: > 0...No Upper Limit	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
	LEN	LENGTH /DIAMETER Range: > 0...No Upper Limit	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	LMC	LANDMARK CATEGORY 001 - LANDMARK 002 - NOT LANDMARK	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY 000 - UNKNOWN 001 - > 1.5 AND <= 5.0 002 - > 5.0 AND <= 10.0 003 - > 10.0 AND <= 20.0 004 - > 20.0 AND <= 40.0 005 - > 40.0	Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
	PFH	PREDOMINANT FEATURE HEIGHT Range: > 0...No Upper Limit	Predominant height within delineation of feature. Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
	WID	WIDTH Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
1L070	FENCE		A MAN-MADE BARRIER OF RELATIVELY LIGHT STRUCTURAL MATERIAL USED AS AN ENCLOSURE OR BOUNDARY.
	1HT	DERIVED HEIGHT Range: 0...511	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.

Fcode	Feature	Attributes/Values	Definition
1L070	FENCE (Cont.)		
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY (Cont.)	
		001 - > 1.5 AND <= 5.0 PFH	
		002 - > 5.0 AND <= 10.0 PFH	
		003 - > 10.0 AND <= 20.0 PFH	
		004 - > 20.0 AND <= 40.0 PFH	
		005 - > 40.0 PFH	
		006 - NOT APPLICABLE	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (ZA010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	FTI	FENCE TYPE IDENTIFIER	Identifier indicating type of fence based on its material composition.
		000 - UNKNOWN	
		001 - METAL	
		002 - WOOD	
		003 - STONE	
		005 - OTHER	
		006 - CHAIN LINK	
		007 - BARBED WIRE	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1L070	FENCE (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	OHD OBSTACLE HEIGHT/DEPTH CATEGORY		Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - - -	
	PFH PREDOMINANT FEATURE HEIGHT		Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSP RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

1L073	FLAGSTAFF /FLAGPOLE		A STAFF OR POLE ON WHICH A FLAG IS RAISED.
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1L073	FLAGSTAFF /FLAGPOLE (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HDE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
1L075	GALLERY		A SUNKEN OR CUT PASSAGEWAY ALONG A TRANSPORTATION ROUTE IN MOUNTAINOUS REGIONS CONSTRUCTED TO PROTECT VEHICLES FROM THE ELEMENTS. A SERIES OF OPENINGS ON ONE SIDE MAY BE PRESENT FOR LIGHT OR VENTILATION.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - 028 - OPERATIONAL - - - - - - - - - -	
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE	The distance available to pass a load that extends laterally beyond the wheels of a vehicle.
			Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1L075	GALLERY (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured along the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	OHC OVERHEAD CLEARANCE CATEGORY		Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.
			Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD 003 - RAILROAD 004 - ROAD 020 - CANAL	
1L085	GEOPHYSICAL PROSPECTING GRID		A LINE ESTABLISHED AND MARKED ON THE EARTH'S SURFACE TO SERVE AS A BASE FORTHE COLLECTION OF GEOPHYSICAL DATA.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
1L095	HOMOGENEOUS RADAR SIGNIFICANT AREA		A CLUSTER OF STRUCTURES THAT COMBINE TO FORM A HOMOGENEOUS AREA WHEN GROUPED ACCORDING TO A COMMON RADAR REFLECTANCE (RSF) AND A COMMON HEIGHT VALUE.
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN 002 - LIMITS AND INFO UNKNOWN	
	DNR DENSITY MEASURE (% OF ROOF COVER)		Roof cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.

Fcode	Feature	Attributes/Values	Definition
1L095	HOMOGENEOUS RADAR SIGNIFICANT AREA (Cont.)		
	NAM	NAME CATEGORY (Cont.)	
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1L100	HUT		A SMALL PRIMITIVE DWELLING.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1L110	LIGHT STANDARD		A STRUCTURE SERVING AS A SUPPORT FOR LIGHTING.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only. ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63.

Fcode	Feature	Attributes/Values	Definition
1L110	LIGHT STANDARD (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE (Cont.)		Increment: N/A Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 = 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 = 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 = 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point of the base (downhill side) to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1L110	LIGHT STANDARD (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1L120	MISSILE SITE		AN AREA FOR HOUSING AND LAUNCHING GUIDED MISSILES, INCLUDING ITS BUILDINGS AND FACILITIES. A SITE MAY CONTAIN ONE OR MORE LAUNCH FACILITIES WHICH FUNCTION AS AN OPERATIONAL UNIT.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN	IDENTIFICATION NUMBER	A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	MSA	MISSILE SITE ATTRIBUTE	Configuration of site.

Fcode	Feature	Attributes/Values	Definition
1L120	MISSILE SITE (Cont.)		
	MSA	MISSILE SITE ATTRIBUTE (Cont.)	
		001 - DISPERSED	A site where launchers from a single operational unit (battery) are separated by a distance greater than their normal site configuration.
		002 - MULTIPLE	A site containing missile launchers from two or more operational units (batteries).
		003 - SINGLE	A site containing missile launchers all belonging to the same operational unit (battery).
	MST	MISSILE SITE TYPE	Class of missile at site.
		000 - UNKNOWN	
		001 - ABM	
		002 - ICBM	
		003 - IRBM	
		004 - SA1	
		005 - SA2	
		006 - SA3	
		007 - SA4	
		008 - SA5	
		009 - SA6	
		010 - SA7	
		011 - SA8	
		012 - SA9	
		013 - MRBM	
		014 - SSM	
		016 - OTHER	
		017 - SA10	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L130	MONUMENT		A STRUCTURE ERECTED OR MAINTAINED PRIMARILY AS A MEMORIAL TO A PERSON OR EVENT.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DNS > 679
		003 - 3	DNS > 105 and <= 679
		008 - 8	DNS > 1 and <= 105
		010 - 10	DNS = 1
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.

Fcode	Feature	Attributes/Values	Definition
1L130	MONUMENT (Cont.)		
	1DS DERIVED DENSITY OF STRUCTURES CODE (Cont.)		
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	

Fcode	Feature	Attributes/Values	Definition
1L130	MONUMENT (Cont.)		
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOB, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level, to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.

Fcode	Feature	Attributes/Values	Definition
1L130	MONUMENT (Cont.)		
	PHT PREDOMINANT HEIGHT (Cont.)		
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC STRUCTURE SHAPE CATEGORY		Shape, appearance, or configuration of the feature.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		012 - PYRAMID - - - - - - - - - - - - - -	
		076 - ARCH - - - - - - - - - - - - - - - -	
		077 - OBELISK - - - - - - - - - - - - - -	
		079 - OTHER - - - - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1L135	NATIVE SETTLEMENT		A CONCENTRATION OF NATIVE DWELLINGS, GENERALLY OF THE HUT TYPE, WHICH ARE NOT USUALLY OF SUBSTANTIAL CONSTRUCTION.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	CFD CULTURAL FEATURE DENSITY		The measure of the concentration of buildings and other cultural features within the delineation of this feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN - - - - - -	
		002 - LIMITS AND INFO UNKNOWN - - - - -	
	DNR DENSITY MEASURE (% OF ROOF COVER)		Roof cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1L135	NATIVE SETTLEMENT (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAS NATIVE SETTLEMENT TYPE		The distribution of native dwellings within the delineated area of the feature.
		001 - CENTRALIZED HABITATION - - - - - -	Native settlements which occur as dense concentrations of closely spaced native dwellings with well-defined limits.
		002 - CONTINUOUS HABITATION - - - - - -	Native settlements or huts which occur in a widespread pattern with poorly-defined limits in Southeast Asia (Kampongs).
	PH3 PREDOMINANT HEIGHT (5 M RANGE)		Predominant height range of a specified urban area (reported in 5 meter ranges).
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 5 - - - - - - - - - - - - - -	
		002 - > 5 AND <= 10 - - - - - - - - - -	
		003 - > 10 AND <= 15 - - - - - - - - - -	
		004 - > 15 AND <= 20 - - - - - - - - - -	
		005 - > 20 AND <= 25 - - - - - - - - - -	
		006 - > 25 AND <= 30 - - - - - - - - - -	
		007 - > 30 AND <= 35 - - - - - - - - - -	
		008 - > 35 AND <= 40 - - - - - - - - - -	
		009 - > 40 AND <= 45 - - - - - - - - - -	
		010 - > 45 AND <= 50 - - - - - - - - - -	
		011 - > 50 AND <= 55 - - - - - - - - - -	
		012 - > 55 AND <= 60 - - - - - - - - - -	
		013 - > 60 AND <= 65 - - - - - - - - - -	
		014 - > 65 AND <= 70 - - - - - - - - - -	
		015 - > 70 AND <= 75 - - - - - - - - - -	
		016 - > 75 AND <= 80 - - - - - - - - - -	
		017 - > 80 AND <= 85 - - - - - - - - - -	
		018 - > 85 AND <= 90 - - - - - - - - - -	
		019 - > 90 AND <= 95 - - - - - - - - - -	
		020 - > 95 AND <= 100 - - - - - - - - -	
		021 - > 100 - - - - - - - - - - - - -	
		022 - NOT APPLICABLE - - - - - - - - -	
	PH4 PREDOMINANT HEIGHT (10 M RANGE)		Predominant height range of a specified urban area (reported in 10 meter ranges).
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 10 - - - - - - - - - - - - - -	
		002 - > 10 AND <= 20 - - - - - - - - - -	
		003 - > 20 AND <= 30 - - - - - - - - - -	
		004 - > 30 AND <= 40 - - - - - - - - - -	
		005 - > 40 AND <= 50 - - - - - - - - - -	
		006 - > 50 AND <= 60 - - - - - - - - - -	
		007 - > 60 AND <= 70 - - - - - - - - - -	
		008 - > 70 AND <= 80 - - - - - - - - - -	
		009 - > 80 AND <= 90 - - - - - - - - - -	
		010 - > 90 AND <= 100 - - - - - - - - -	
		011 - > 100 - - - - - - - - - - - - -	
		012 - NOT APPLICABLE - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PLU PREDOMINANT LAND USE		Predominant land use is that land use which accounts for 60 percent or more of the delineated built-up area.
		006 - RESIDENTIAL - - - - - - - - - - -	Area devoted to the living accommodations (dwellings units from small huts to high-rise apartments) of human beings. Area may be interspersed with small shopping centers, churches, schools, police and fire stations, etcetera.
	USP URBAN STREET PATTERN		The predominant geometric configuration of streets found within the delineated area of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - RECTANGULAR /GRID. - - - - - - - -	
		002 - RECTANGULAR /GRID-REGULAR - - - -	
		003 - RECTANGULAR /GRID-IRREGULAR - - -	
		004 - CURVILINEAR (CLUSTER) - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1L135	NATIVE SETTLEMENT (Cont.)		
	USP URBAN STREET PATTERN (Cont.)		
		005 - CONCENTRIC /RADIAL	
		006 - CONCENTRIC /RADIAL-REGULAR	
		007 - CONCENTRIC /RADIAL-IRREGULAR	
		008 - MIXED	
		009 - MIXED-CURVILINEAR (CLUSTER) AND RECTANGULAR (GRID)	
		010 - MIXED-CONCENTRIC/RADIAL AND RECTANGULAR (GRID)	
		011 - MIXED-CURVILINEAR (CLUSTER) AND CONCENTRIC /RADIAL	
		012 - OTHER	
		013 - LINEAR/STRIP	
		014 - RADIAL, REGULAR	
		015 - RADIAL, IRREGULAR	
		016 - CONCENTRIC, REGULAR	
		017 - CANALS, REGULAR	
		018 - CANALS, IRREGULAR	
		019 - CONTOUR, CONFORMING (REGULAR CONTOURING)	
		020 - CONTOURING, IRREGULAR	
		021 - MEDIEVAL/PREINDUSTRIAL, IRREGULAR	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1L140	NUCLEAR ACCELERATOR		AN APPARATUS FOR IMPARTING HIGH VELOCITIES TO CHARGED PARTICLES.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
1L155	OVERHEAD OBSTRUCTION LOCATION		AN OVERHEAD OBSTRUCTION LOCATION, (OTHER THAN 1L075, 1L210, 1Q040, 1Q131), SUCH AS UNDERPASSES, OVERHEAD PIPELINES, CONVEYOR BELTS, WIRES, BUILDING OVERHANGS OR PASSAGEWAYS, GATES, AND OTHER COVERED TRAVELED WAYS.
	HCA HORIZONTAL CLEARANCE ATTRIBUTE		The distance available to pass a load that extends laterally beyond the wheels of a vehicle.

Fcode	Feature	Attributes/Values	Definition
1L155	OVERHEAD OBSTRUCTION LOCATION (Cont.)		
	HCA HORIZONTAL CLEARANCE ATTRIBUTE (Cont.)		Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	OHC OVERHEAD CLEARANCE CATEGORY		Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it. Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD 003 - RAILROAD 004 - ROAD 020 - CANAL	
1L160	PIPELINE /PIPE		A TUBE FOR THE CONVEYANCE OF LIQUIDS OR GASES.
	1OH DERIVED OBSTACLE HEIGHT CATEGORY		Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFH 002 - > 5.0 AND <= 10.0 PFH 003 - > 10.0 AND <= 20.0 PFH 004 - > 20.0 AND <= 40.0 PFH 005 - > 40.0 PFH 006 - NOT APPLICABLE	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	DEP DEPTH BELOW SURFACE LEVEL		Distance measured from the highest point at surface level to the lowest point of the feature. Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2HD80, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1L160	PIPELINE /PIPE (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - - 006 - ABANDONED - - - - - - - - - - - 028 - OPERATIONAL - - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	HSB	HEIGHT ABOVE SEA BOTTOM	Vertical distance from the bottom of the sea to the top of the feature..
			Increment: 0.1 Meter Limits: From the sea bottom to the highest point of the feature Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH/DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1L160	PIPELINE /PIPE (Cont.)		
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE - - - - - - - -	
		003 - ON GROUND SURFACE - - - - - - - -	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
		005 - FLOATING - - - - - - - - - - - - - -	
		010 - BELOW SEA BOTTOM - - - - - - - - - -	Feature is buried deep enough that it is not vulnerable to damage from anchoring.
		011 - ON SEA BOTTOM - - - - - - - - - -	Feature is on sea bottom or buried but still vulnerable to damage from anchoring.
		012 - SUSPENDED OR ELEVATED ABOVE SEA BOTTOM - - - - - - - - - - - - -	Feature is raised above the sea bottom and is significantly shallower than surrounding charted depths.
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - -	
	OWO	OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER. -	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER. - - - - - - - - - - - - -	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE - - - - - - - - - -	Feature does not cross over water.
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PLT	PIPELINE TYPE	Identifies function of pipeline.
		001 - TRANSPORT - - - - - - - - - - - -	A pipe that transports liquids or gases from one facility or container to another facility or container.
		002 - OUTFALL - - - - - - - - - - - - -	A pipe that discharges liquids into a body of water.
		003 - INTAKE - - - - - - - - - - - - - -	A pipe that removes water from a body of water.
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN - - - - - - - - - - - - -	
		006 - CHEMICAL - - - - - - - - - - - - -	
		012 - NATURAL GAS - - - - - - - - - - -	
		013 - GASOLINE - - - - - - - - - - - - -	
		018 - OIL - - - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - -	
		027 - WATER - - - - - - - - - - - - - -	
		035 - SEWAGE - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
	SOC	SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature.
			Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.

Fcode	Feature	Attributes/Values	Definition
1L160	PIPELINE /PIPE (Cont.)		
	VDC	VERTICAL DATUM CATEGORY (Cont.)	
		000 - UNKNOWN	
		007 - MEAN HIGH WATER	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS	
		010 - MEAN HIGHER HIGH WATER	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		024 - MEAN HIGHER HIGH WATER SPRINGS	
		026 - HIGHEST NORMAL HIGH WATER	
		028 - HIGHEST HIGH WATER	
		030 - INDIAN SPRING HIGH WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
1L165	PIPELINE /PIPE CROSSING POINT		A TRAVERSABLE SITE EXTENDING ACROSS A PIPELINE /PIPE THAT ACTS AS A PASSAGEWAY FOR CROSS COUNTRY MOVEMENT OF VEHICLES AND /OR TROOPS.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	PXT	PIPELINE /PIPE CROSSING POINT TYPE	Type of crossing site.
		001 - BELOW GROUND SURFACE	Crossing via a small tunnel-like structure below the ground surface where the pipeline /pipe is at or above the ground surface.
		002 - ON GROUND SURFACE	Crossing that occurs either when an elevated pipeline /pipe has been further elevated for a short linear distance, or when is located below ground level.
		003 - ELEVATED	Crossing is via a ramp structure where pipeline /pipe is at or above groundlevel.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Measured along pipeline's length between initial and terminal points of the provided passageway. Variance: N/A
		Range: > 0...No Upper Limit	
1L170	PLAZA /CITY SQUARE		AN OPEN AREA IN A CITY OR TOWN BOUNDED BY, OR AT THE INTERSECTION OF, SEVERAL STREETS AND USED AS A PARK, PUBLIC GATHERING PLACE, ETCETERA.

Fcode	Feature	Attributes/Values	Definition
1L170	PLAZA /CITY SQUARE (Cont.)		
	LHT	DERIVED HEIGHT	For computation only, LHT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE - - - - - - - - - - - - - -	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL - - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT - - - - - - - - - - - - - -	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L180	PUMPING STATION		A FACILITY HAVING BUILDING(S) AND PUMPING EQUIPMENT THAT IS USED TO MOVE LIQUIDS OR GASES BY MEANS OF PRESSURE OR SUCTION.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RFA=001).

Fcode	Feature	Attributes/Values	Definition
1L180	PUMPING STATION (Cont.)		
	DFS DISTANCE FROM SHORELINE (Cont.)		
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER - - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		012 - NATURAL GAS - - - - - - - - - - -	
		018 - OIL - - - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - -	
		027 - WATER - - - - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1L200	RUINS		A SITE CONTAINING THE SEVERLY DETERIORATED AND UNUSABLE REMAINS OF A STRUCTURE(S).
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9999=All values > 9997 or N/A. Range: 1...9997	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN - - - - - - - - - - -	
		010 - DEPTH KNOWN BY WIRE DRAG - - - - -	
		012 - DEPTH UNKNOWN - - - - - - - - - -	
		015 - NOT APPLICABLE - - - - - - - - - -	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	

Fcode	Feature	Attributes/Values	Definition
1L200	RUINS (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE	
		003 - ON GROUND SURFACE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER)	
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	
		009 - NOT APPLICABLE	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1L208	SHANTY TOWN		A DENSE CONCENTRATION OF CRUDE, IMPROVISED DWELLINGS MADE FROM SALVAGED MATERIALS, USUALLY LOCATED ON THE OUTSKIRTS OF CITIES AND HAVING FEW, IF ANY, STREETS AND NO FACILITIES.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BAC	BUILT-UP AREA CLASSIFICATION	The indication of the relative density of the Built-Up Area.
		001 - SPARSE TO MODERATE - - - - - - - -	Most buildings coalesce in a side to side direction along the street, but space between the backs of the buildings is such that coalescence does not occur, when plotted at point symbol size (25 m x 25 m on ground).
		002 - DENSE - - - - - - - - - - - - - -	Most buildings coalesce both side to side and back to back, when plotted at point symbol size (25 m x 25 m on ground).
	CFD	CULTURAL FEATURE DENSITY	The measure of the concentration of buildings and other cultural features within the delineation of this feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PH3	PREDOMINANT HEIGHT (5 M RANGE)	Predominant height range of a specified urban area (reported in 5 meter ranges).
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - <= 5 - - - - - - - - - - - - - - -	
		002 - > 5 AND <= 10 - - - - - - - - - - -	
		003 - > 10 AND <= 15 - - - - - - - - - - -	
		004 - > 15 AND <= 20 - - - - - - - - - - -	
		005 - > 20 AND <= 25 - - - - - - - - - - -	
		006 - > 25 AND <= 30 - - - - - - - - - - -	
		007 - > 30 AND <= 35 - - - - - - - - - - -	
		008 - > 35 AND <= 40 - - - - - - - - - - -	
		009 - > 40 AND <= 45 - - - - - - - - - - -	
		010 - > 45 AND <= 50 - - - - - - - - - - -	
		011 - > 50 AND <= 55 - - - - - - - - - - -	
		012 - > 55 AND <= 60 - - - - - - - - - - -	
		013 - > 60 AND <= 65 - - - - - - - - - - -	
		014 - > 65 AND <= 70 - - - - - - - - - - -	
		015 - > 70 AND <= 75 - - - - - - - - - - -	
		016 - > 75 AND <= 80 - - - - - - - - - - -	
		017 - > 80 AND <= 85 - - - - - - - - - - -	
		018 - > 85 AND <= 90 - - - - - - - - - - -	
		019 - > 90 AND <= 95 - - - - - - - - - - -	
		020 - > 95 AND <= 100 - - - - - - - - - -	
		021 - > 100 - - - - - - - - - - - - - -	
		022 - NOT APPLICABLE - - - - - - - - - -	
	PH4	PREDOMINANT HEIGHT (10 M RANGE)	Predominant height range of a specified urban area (reported in 10 meter ranges).
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - <= 10 - - - - - - - - - - - - - - -	
		002 - > 10 AND <= 20 - - - - - - - - - - -	
		003 - > 20 AND <= 30 - - - - - - - - - - -	
		004 - > 30 AND <= 40 - - - - - - - - - - -	
		005 - > 40 AND <= 50 - - - - - - - - - - -	
		006 - > 50 AND <= 60 - - - - - - - - - - -	
		007 - > 60 AND <= 70 - - - - - - - - - - -	
		008 - > 70 AND <= 80 - - - - - - - - - - -	
		009 - > 80 AND <= 90 - - - - - - - - - - -	
		010 - > 90 AND <= 100 - - - - - - - - - -	
		011 - > 100 - - - - - - - - - - - - - -	
		012 - NOT APPLICABLE - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.

Fcode	Feature	Attributes/Values	Definition
1L208	SHANTY TOWN (Cont.)		
	PHT PREDOMINANT HEIGHT (Cont.)		
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PLU PREDOMINANT LAND USE		Predominant land use is that land use which accounts for 60 percent or more of the delineated built-up area.
		006 - RESIDENTIAL - - - - - - - - - - -	Area devoted to the living accommodations (dwellings units from small huts to high-rise apartments) of human beings. Area may be interspersed with small shopping centers, churches, schools, police and fire stations, etcetera.
	USP URBAN STREET PATTERN		The predominant geometric configuration of streets found within the delineated area of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - RECTANGULAR /GRID - - - - - - - -	
		002 - RECTANGULAR /GRID-REGULAR - - - -	
		003 - RECTANGULAR /GRID-IRREGULAR - - -	
		004 - CURVILINEAR (CLUSTER) - - - - - -	
		005 - CONCENTRIC /RADIAL - - - - - - - -	
		006 - CONCENTRIC /RADIAL-REGULAR - - - -	
		007 - CONCENTRIC /RADIAL-IRREGULAR - - -	
		008 - MIXED - - - - - - - - - - - - - -	
		009 - MIXED-CURVILINEAR (CLUSTER) AND RECTANGULAR (GRID) - - - - - - -	
		010 - MIXED-CONCENTRIC/RADIAL AND RECTANGULAR (GRID) - - - - - - -	
		011 - MIXED-CURVILINEAR (CLUSTER) AND CONCENTRIC /RADIAL - - - - - - -	
		012 - OTHER - - - - - - - - - - - - - -	
		013 - LINEAR/STRIP - - - - - - - - - - -	
		014 - RADIAL, REGULAR - - - - - - - - -	
		015 - RADIAL, IRREGULAR - - - - - - - -	
		016 - CONCENTRIC, REGULAR - - - - - - -	
		017 - CANALS, REGULAR - - - - - - - - -	
		018 - CANALS, IRREGULAR - - - - - - - -	
		019 - CONTOUR, CONFORMING (REGULAR CONTOURING) - - - - - - - - - -	
		020 - CONTOURING, IRREGULAR - - - - - -	
		021 - MEDIEVAL/PREINDUSTRIAL, IRREGULAR	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1L210	SNOW SHED /ROCK SHED		A SHELTER BUILT TO PROTECT A SECTION OF ROAD OR RAILROAD FROM SNOW OR ROCK SLIDES.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	HCA HORIZONTAL CLEARANCE ATTRIBUTE		The distance available to pass a load that extends laterally beyond the wheels of a vehicle.

Fcode	Feature	Attributes/Values	Definition
1L210	SNOW SHED /ROCK SHED (Cont.)		
	HCA HORIZONTAL CLEARANCE ATTRIBUTE (Cont.)		
			Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	OHC OVERHEAD CLEARANCE CATEGORY		Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.
			Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SIT SHED IDENTIFIER TYPE		Type of shed.
		001 - SNOW - - - - - - - - - - - - - - - -	
		002 - ROCK - - - - - - - - - - - - - - - -	
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - - -	
		020 - CANAL - - - - - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1L215 SPECIAL AREA — A SIGNIFICANT CULTURAL FEATURE AREA OR ENTITY, PROMINENT DUE TO ITS RADAR REFLECTING POTENTIAL.

Fcode	Feature	Attributes/Values	Definition
1L215	SPECIAL AREA (Cont.)		
	HAS	HEIGHT ABOVE SURROUNDING FEATURES	The height differential between the HGT of the feature and the HGT of the tallest feature within a 300 m radius.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1L220	STEEPLE		AN ORNAMENTAL STRUCTURE USUALLY ENDING IN A SPIRE ERECTED ON A ROOF OR TOWER OF A BUILDING.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DNS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DNS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DNS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DNS = 1

Fcode	Feature	Attributes/Values	Definition
1L220	STEEPLE (Cont.)		
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	BFC	BUILDING FUNCTION CATEGORY	Type or primary purpose of the building.
		007 - HOUSE OF WORSHIP - - - - - - - - - - 039 - OTHER - - - - - - - - - - - - - -	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -	
	COS	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - - - 002 - DOUBTFUL - - - - - - - - - - - - - - 003 - REPORTED - - - - - - - - - - - - - -	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1L220	STEEPLE (Cont.)		
	DMS	DENSITY MEASURE (STRUCTURE COUNT) (Cont.)	
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.

Fcode	Feature	Attributes/Values	Definition
1L220	STEEPLE (Cont.)		
	ZVL Z VALUE (Cont.)		Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1L228 TENT DWELLINGS

DWELLINGS (USED PRIMARILY BY NOMADIC PEOPLE) THAT ARE CONSTRUCTED OF CANVAS, HIDES, WOVEN MATS, OR BARK, STRETCHED OVER OR HELD UP BY POLES, AND ARE OF A PERMANENT NATURE.

ARA AREA COVERAGE ATTRIBUTE ..... The absolute area within the delineation of the feature.

Increment: 1 Square Meter
Limits: N/A
Variance: N/A

Range: > 0...No Upper Limit

LMC LANDMARK CATEGORY ..... A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

001 - LANDMARK - - - - - - - - - - - - -
002 - NOT LANDMARK - - - - - - - - - - -

NAM NAME CATEGORY ..... The proper name, identifying code, or number of a feature.

000 - ANY IDENTIFIER - - - - - - - - - -

STL SEASONAL TENT LOCATION ..... The seasonal habitat location of nomadic people.

000 - UNKNOWN - - - - - - - - - - - - - Seasonal nature of location cannot be determined.
001 - WINTER LOCATION - - - - - - - - - Permanent seasonal winter tent site.
002 - SUMMER LOCATION - - - - - - - - - Permanent seasonal summer tent site.

WID WIDTH ..... A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Increment: 1 Meter
Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle.
Variance: N/A

Range: > 0...No Upper Limit

1L240 TOWER (NON- COMMUNICATION)

A RELATIVELY TALL STRUCTURE USED FOR OBSERVATION OR SUPPORT.

1AO DERIVED ANGLE OF ORIENTATION CODE ..... For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Increment:
Limits: N/A
Variance: N/A

Default: 63
Range: 0...31

1HT DERIVED HEIGHT ..... For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...511

1LN DERIVED LENGTH ..... For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1L240	TOWER (NON- COMMUNICATION) (Cont.)		
	1LN DERIVED LENGTH (Cont.)		Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existance.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EDC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: Guy wires excluded.
		Range: > 0...No Upper Limit	
	GUG GUYED OR UNGUYED CATEGORY		Presence of support wires.
		000 - UNKNOWN 001 - GUYED 002 - UNGUYED	 Wires present Wires not present
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).

Fcode	Feature	Attributes/Values	Definition
1L240	TOWER (NON- COMMUNICATION) (Cont.)		
	HAC	HEIGHTING ACCURACY (Cont.)	
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	TTC	TOWER TYPE CATEGORY	Appearance, or configuration of the feature.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - BRIDGE - - - - - - - - - - - - - - -	Towers as part of bridge superstructure
		002 - OBSERVATION /LOOKOUT - - - - - - - -	
		003 - OTHER - - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1L250	UNDERGROUND DWELLING		UNDERGROUND ROOMS FOR HUMAN HABITATION GROUPED AROUND AN ENTRANCE SHAFT.
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1L250	UNDERGROUND DWELLING (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
1L260	WALL		A MAN-MADE BARRIER OF HEAVY MATERIAL USED AS AN ENCLOSURE OR BOUNDARY.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFH	
		002 - > 5.0 AND <= 10.0 PFH	
		003 - > 10.0 AND <= 20.0 PFH	
		004 - > 20.0 AND <= 40.0 PFH	
		005 - > 40.0 PFH	
		006 - NOT APPLICABLE	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of A feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
		002 - BI	Visually significant or reflective from two sides only.
		004 - LEFT UNI	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.

Fcode	Feature	Attributes/Values	Definition
1L260	WALL (Cont.)		
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		008 - BRICK	
		018 - CONCRETE	
		048 - MASONRY	Stone or Brick, held together with mortar.
		060 - PRESTRESSED CONCRETE	
		065 - REINFORCED CONCRETE	
		083 - STEEL	
		086 - STONE	
		097 - WOOD	
		102 - OTHER	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN	
		001 - > 1.5 AND <= 5.0	
		002 - > 5.0 AND <= 10.0	
		003 - > 10.0 AND <= 20.0	
		004 - > 20.0 AND <= 40.0	
		005 - > 40.0	
	PPH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
1L260	WALL (Cont.)		
	RSF	RADAR SIGNIFICANCE FACTOR (Cont.)	
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	WT1	WALL TYPE IDENTIFIER	Type of wall structure category.
		000 - UNKNOWN	
		001 - STANDING	Constructed above ground level.
		002 - RETAINING	Constructed to sustain pressure of ground behind the wall.
		003 - OTHER	
		004 - ON GROUND AQUEDUCT	(wall like)

1M010	DEPOT (STORAGE)		AN AREA USED FOR THE STORAGE OF PRODUCTS OR SUPPLIES.
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1M010	*DEPOT (STORAGE)* (Cont.)		
	DFS *DISTANCE FROM SHORELINE* (Cont.)		Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT HEIGHT ABOVE *SURFACE LEVEL*		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - -	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE - - - - - - - - 003 - ON GROUND SURFACE - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: The PHT shall be adjusted to account for significantly taller structures if these structures occupy >= 15% of the areal feature, are > 6m taller than the predominant height of the entire area and these structures are too scattered.
		Range: 0...No Upper Limit	
	RSP RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal

Fcode	Feature	Attributes/Values	Definition
1M010	DEPOT (STORAGE) (Cont.)		
	RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
		005 - EARTHEN WORKS	>= 51% of land, soil or ground surface
	USE USE STATUS		Identifies the primary user, function, or controlling authority.
		013 - OPEN	Storage in an open air facility.
		020 - CLOSED	Storage in a covered enclosure.
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1M020	GRAIN BIN		A NORMALLY CYLINDRICAL THIN-WALLED METALLIC STRUCTURE, WIDER THAN IT IS TALL, USED FOR THE TEMPORARY STORAGE OF GRAIN.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DNS > 679
		003 - 3	DNS > 105 and <= 679
		008 - 8	DNS > 1 and <= 105
		010 - 10	DNS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DNS = 1
		001 - 1	DNS > 1 and <= 105
		002 - 2	DNS > 105 and <= 252
		003 - 3	DNS > 252 and <= 544
		004 - 4	DNS > 544 and <= 679
		005 - 5	DNS > 679 and <= 825
		006 - 6	DNS > 825 and <= 971
		007 - 7	DNS > 971 and <= 1114
		008 - 8	DNS > 1114 and <=1262
		009 - 9	DNS > 1262 and <= 1408
		010 - 10	DNS > 1408 and <= 1554
		011 - 11	DNS > 1554 and <= 1700
		012 - 12	DNS > 1700 and <= 1845
		013 - 13	DNS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	DNT = 0
		001 - 1	DNT >= 1 and <= 29
		003 - 3	DNT >= 30
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1M020	GRAIN BIN (Cont.)		
	1LN DERIVED LENGTH (Cont.)		
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...127	
	1WD *DERIVED WIDTH*		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT HEIGHT ABOVE *SURFACE LEVEL*		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal

Fcode	Feature	Attributes/Values	Definition
1M020	GRAIN BIN (Cont.)		
	RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1M030	GRAIN ELEVATOR		A TALL BUILDING, EQUIPPED FOR LOADING, UNLOADING, AND STORING GRAIN.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DMS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1M030	GRAIN ELEVATOR (Cont.)		
	1PH DERIVED PREDOMINANT HEIGHT (Cont.)		
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.

Fcode	Feature	Attributes/Values	Definition
1M030	GRAIN ELEVATOR (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE (Cont.)	
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level.to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.

Fcode	Feature	Attributes/Values	Definition
1M030	GRAIN ELEVATOR (Cont.)		
	ZVL	Z VALUE (Cont.)	Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

Fcode	Feature	Attributes/Values	Definition
1M040	MINERAL PILE		A MAN-MADE MOUND OF MINED OR QUARRIED MATERIALS (EXCLUDING TAILINGS).
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Fcode	Feature	Attributes/Values	Definition
1M040	MINERAL PILE (Cont.)		
	DMS DENSITY MEASURE (STRUCTURE COUNT) (Cont.)		Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		008 - COKE - - - - - - - - - - - - - - -	
		009 - COAL - - - - - - - - - - - - - - -	
		019 - OTHER - - - - - - - - - - - - - - -	
		038 - SALT - - - - - - - - - - - - - - -	
		040 - GRAVEL - - - - - - - - - - - - - - -	
		041 - STONE - - - - - - - - - - - - - - -	
		042 - SAND - - - - - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
		005 - EARTHEN WORKS - - - - - - - - - - - - - - -	>= 51% of land, soil or ground surface
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1M040	MINERAL PILE (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1M050 SILO

AN UPRIGHT CYLINDRICAL STRUCTURE, TALLER THAN IT IS WIDE, USED FOR THE STORAGE OF ANIMAL FODDER OR DRY BULK GOODS OR MATERIALS.

1DR DERIVED DENSITY OF ROOF COVER CODE ..... (DA) Coded value indicating percent of Roof Cover within area of feature.

002 - 2	DNS > 679
003 - 3	DNS > 105 and <= 679
008 - 8	DNS > 1 and <= 105
010 - 10	DNS = 1

1DS DERIVED DENSITY OF STRUCTURES CODE ..... (DA) Coded value indicating Structure Count within area of feature.

000 - 0	DNS = 1
001 - 1	DNS > 1 and <= 105
002 - 2	DNS > 105 and <= 252
003 - 3	DNS > 252 and <= 544
004 - 4	DNS > 544 and <= 679
005 - 5	DNS > 679 and <= 825
006 - 6	DNS > 825 and <= 971
007 - 7	DNS > 971 and <= 1114
008 - 8	DNS > 1114 and <=1262
009 - 9	DNS > 1262 and <= 1408
010 - 10	DNS > 1408 and <= 1554
011 - 11	DNS > 1554 and <= 1700
012 - 12	DNS > 1700 and <= 1845
013 - 13	DNS > 1845

1DT DERIVED DENSITY OF TREE COVER CODE ..... (DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.

000 - 0	DNT = 0
001 - 1	DNT >= 1 and <= 29
003 - 3	DNT >= 30

1HT DERIVED HEIGHT ..... For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...511

1LN DERIVED LENGTH ..... For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

1WD DERIVED WIDTH ..... For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

AOO ANGLE OF ORIENTATION ..... The angular orientation of a feature with respect to true north.

Increment: 1 Degree
Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature.
Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.

Default: 360
Range: 0...179

Fcode	Feature	Attributes/Values	Definition
1MD50	SILO (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1M050	SILO (Cont.)		
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1M060 STORAGE BUNKER /STORAGE MOUND

A REINFORCED STRUCTURE SOMETIMES COVERED AND SURROUNDED WITH EARTH IN WHICH MATERIALS OR PRODUCTS ARE STORED.

	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	

Fcode	Feature	Attributes/Values	Definition
1M060	STORAGE BUNKER /STORAGE MOUND (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LNC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN - - - - - - - - - - - -	
		002 - AMMUNITION - - - - - - - - - - -	
		011 - EXPLOSIVES - - - - - - - - - - -	
		013 - GASOLINE - - - - - - - - - - - -	
		021 - RADIOACTIVE MATERIAL - - - - - - -	
		028 - URANIUM - - - - - - - - - - - -	
		052 - PERSONNEL - - - - - - - - - - - -	Air raid shelter
		053 - AIRCRAFT - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Pcode	Feature	Attributes/Values	Definition
1M060	STORAGE BUNKER /STORAGE MOUND (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1M070	TANK		A CONTAINER USED FOR THE STORAGE OF LIQUIDS OR GASES.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - - DNS > 679 003 - 3 - - - - - - - - - - - - - - - - DNS > 105 and <= 679 008 - 8 - - - - - - - - - - - - - - - - DNS > 1 and <= 105 010 - 10 - - - - - - - - - - - - - - - - DNS = 1	
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - DNS = 1 001 - 1 - - - - - - - - - - - - - - - - DNS > 1 and <= 105 002 - 2 - - - - - - - - - - - - - - - - DNS > 105 and <= 252 003 - 3 - - - - - - - - - - - - - - - - DNS > 252 and <= 544 004 - 4 - - - - - - - - - - - - - - - - DNS > 544 and <= 679 005 - 5 - - - - - - - - - - - - - - - - DNS > 679 and <= 825 006 - 6 - - - - - - - - - - - - - - - - DNS > 825 and <= 971 007 - 7 - - - - - - - - - - - - - - - - DNS > 971 and <= 1114 008 - 8 - - - - - - - - - - - - - - - - DNS > 1114 and <=1262 009 - 9 - - - - - - - - - - - - - - - - DNS > 1262 and <= 1408 010 - 10 - - - - - - - - - - - - - - - - DNS > 1408 and <= 1554 011 - 11 - - - - - - - - - - - - - - - - DNS > 1554 and <= 1700 012 - 12 - - - - - - - - - - - - - - - - DNS > 1700 and <= 1845 013 - 13 - - - - - - - - - - - - - - - - DNS > 1845	
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - - DNT = 0 001 - 1 - - - - - - - - - - - - - - - - DNT >= 1 and <= 29 003 - 3 - - - - - - - - - - - - - - - - DNT >= 30	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	

Fcode	Feature	Attributes/Values	Definition
1M070	TANK (Cont.)		
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - - 002 - NOT CONSPICUOUS - - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - - 002 - DOUBTFUL - - - - - - - - - - - - - 003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).

Fcode	Feature	Attributes/Values	Definition
1M070	TANK (Cont.)		
	HAC HEIGHTING ACCURACY (Cont.)		Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE 003 - ON GROUND SURFACE 004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
		000 - UNKNOWN 006 - CHEMICAL 012 - NATURAL GAS 013 - GASOLINE 018 - OIL 019 - OTHER 027 - WATER 061 - MOLASSAS 062 - OXYGEN 063 - HELIUM 064 - HYDROGEN	
	RSP RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC STRUCTURE SHAPE CATEGORY		Shape, appearance, or configuration of the feature.
		000 - UNKNOWN	
		002 - BLIMP	An elongated horizontal tank rounded at both ends.
		004 - BULLET	An elongated vertical tank rounded at both ends.
		007 - CYLINDRICAL (UPRIGHT) (CAN)	
		017 - SPHERICAL	
		059 - TELESCOPING GASHOLDER (GASOMETER)	

Fcode	Feature	Attributes/Values	Definition
1M070	TANK (Cont.)		
	STT	STRUCTURE SHAPE OF TANK TOP	The shape of the tank top.
		065 - CYLINDRICAL W/FLAT TOP	
		066 - CYLINDRICAL W/DOME TOP	
		071 - CYLINDRICAL W/PEAK	
		072 - OTHER	
		078 - NOT APPLICABLE	
		079 - NON-CYLINDRICAL	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1M080	WATER TOWER		AN ELEVATED CONTAINER USED TO HOLD WATER.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DNS > 679
		003 - 3	DNS > 105 and <= 679
		008 - 8	DNS > 1 and <= 105
		010 - 10	DNS = 1
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DNS = 1
		001 - 1	DNS > 1 and <= 105
		002 - 2	DNS > 105 and <= 252
		003 - 3	DNS > 252 and <= 544
		004 - 4	DNS > 544 and <= 679
		005 - 5	DNS > 679 and <= 825
		006 - 6	DNS > 825 and <= 971
		007 - 7	DNS > 971 and <= 1114
		008 - 8	DNS > 1114 and <=1262
		009 - 9	DNS > 1262 and <= 1408
		010 - 10	DNS > 1408 and <= 1554
		011 - 11	DNS > 1554 and <= 1700
		012 - 12	DNS > 1700 and <= 1845
		013 - 13	DNS > 1845
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	DNT = 0
		001 - 1	DNT >= 1 and <= 29
		003 - 3	DNT >= 30
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1M080	WATER TOWER (Cont.)		
	1HT DERIVED HEIGHT (Cont.)		
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.

Fcode	Feature	Attributes/Values	Definition
1M080	WATER TOWER (Cont.)		
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER) (Cont.)	
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open - Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees - Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures - Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		007 - CYLINDRICAL (UPRIGHT) (CAN) - - -	
		017 - SPHERICAL - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Pcode	Feature	Attributes/Values	Definition
1M080	WATER TOWER (Cont.)		
	WID	WIDTH (Cont.)	Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1N010	RAILROAD TRACK		A RAIL OR SET OF PARALLEL RAILS ON WHICH A TRAIN OR TROLLEY RUNS.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	ARY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N	
	AVB	AVAILABILITY ATTRIBUTE	The availability of a feature at the aircraft facility site.
		014 - BRANCH LINE 017 - BRANCH TO MAIN LINE 018 - RAILROAD JUST EAST OF AIRPORT 019 - RAILROAD JUST WEST OF AIRPORT 020 - RAILROAD JUST NORTH OF AIRPORT 021 - RAILROAD JUST SOUTH OF AIRPORT 022 - MAIN LINE 023 - RAILROAD AT TOWN	
	DPS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.

Fcode	Feature	Attributes/Values	Definition
1N010	RAILROAD TRACK (Cont.)		
	DIR	DIRECTIVITY (Cont.)	
		002 - BI	Visually significant or reflective from two sides only.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	Tracks in place, but not in service.
		007 - DESTROYED	
		008 - DISMANTLED	Tracks removed.
		028 - OPERATIONAL	
	GAW	GAUGE WIDTH	The width of a single pair of rails.
			Increment: 0.01 Meter Limits: Measured along the shortest straight line distance from inside rail to inside rail. Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
		006 - BELOW WATER SURFACE	
	LTN	LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions.
			Increment: 1 Lane/Track Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RGC	RAILROAD GAUGE CATEGORY	The type of gauge used.
		001 - BROAD	Any gauge wider than the normal gauge.
		002 - NARROW	Any gauge less than the normal gauge.
		003 - NORMAL	The gauge used by the majority of the mainline railroads in a country.
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N	
	RPS	RAILROAD POWER SOURCE	Type of power source.
		000 - UNKNOWN	
		001 - ELECTRIFIED TRACK	
		003 - OVERHEAD ELECTRIFIED	
		004 - NON-ELECTRIFIED	
	RRC	RAILROAD /ROAD CATEGORIES	The type of railroad system used to support various transportation uses.
		000 - UNKNOWN	
		001 - MAIN LINE /BRANCH LINE	
		002 - CAR-LINE	Type of inter-urban railroad such as a trolley used for transporting people.

Fcode	Feature	Attributes/Values	Definition
1N010	RAILROAD TRACK (Cont.)		
	RRC RAILROAD /ROAD CATEGORIES (Cont.)		
		003 - MONORAIL	A railroad system utilizing a single rail.
		008 - LOGGING	Railroad system used to transport logs.
		013 - MARINE RAILROAD	A track, cradle, and winding mechanism for hauling vessels out of the water so that the hull can be exposed, as in a dry dock.
		014 - RAILROAD IN ROAD	
		015 - MAGNETIC LEVITATION	A railroad system utilizing electromagnetic principles to both suspend the railway cars above and to propel them along a guideway (normally either along a trough or raised "T" or "I" rail type track).
	RRM FACILITY RAILROAD REMARKS		Remarks on railroads accessible to the facility, including: distance/direction to nearest station; gauge /number of tracks; aidings and spurs to what part of facility; current construction and projected improvements.
		000 - CHAR: 1080 A/N	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL	>= 40% to < 75% metal
	RTR RAILROAD TRACK ARRANGEMENT		The arrangment of trackage on a single railroad bed including both directions.
		000 - UNKNOWN	Can not be determined.
		001 - SINGLE	One set of tracks.
		002 - DOUBLE	Two sets of tracks on the same roadbed.
		003 - MULTIPLE	Three or more sets of tracks on the same roadbed.
		004 - JUXTAPOSITION	Two railroads closely spaced but on separate roadbeds.
	SGC SLOPE /GRADIENT CATEGORY		The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	VRC VERTICAL REFERENCE CATEGORY		Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER)	
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	
		009 - NOT APPLICABLE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

1N050	RR SIDING /RR SPUR		A STRETCH OF RAILROAD TRACK(S) CONNECTED TO THE MAIN TRACK SYSTEM BY SWITCHES; USED FOR PASSING, TEMPORARY STORAGE, OR FOR LOADING /UNLOADING OF RR CARS.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: -511...511	

Fcode	Feature	Attributes/Values	Definition
1N050	RR SIDING /RR SPUR (Cont.)		
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	AVB	AVAILABILITY ATTRIBUTE	The availability of a feature at the aircraft facility site.
		015 - SPUR ACCESS TO MAIN LINE - - - - - 016 - SPUR ACCESS TO BRANCH LINE - - - -	
	CTL	CUMULATIVE TRACK LENGTH	Total cumulative length of track contained within confines of the feature, exclusive of the branch or main trunk lines running into and/or out of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - 006 - ABANDONED - - - - - - - - - - - - 007 - DESTROYED - - - - - - - - - - - - 008 - DISMANTLED - - - - - - - - - - - - 028 - OPERATIONAL - - - - - - - - - - -	Tracks in place, but not in service. Tracks removed.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - -	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.

Fcode	Feature	Attributes/Values	Definition
1N050	RR SIDING /RR SPUR (Cont.)		
	LOC	LOCATION /ORIGIN CATEGORY (Cont.)	
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	LTN	LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions.
			Increment: 1 Lane/Track Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	RGC	RAILROAD GAUGE CATEGORY	The type of gauge used.
		001 - BROAD	Any gauge wider than the normal gauge.
		002 - NARROW	Any gauge less than the normal gauge.
		003 - NORMAL	The gauge used by the majority of the mainline railroads in a country.
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N	
	RPS	RAILROAD POWER SOURCE	Type of power source.
		000 - UNKNOWN	
		001 - ELECTRIFIED TRACK	
		003 - OVERHEAD ELECTRIFIED	
		004 - NON-ELECTRIFIED	
	RRM	FACILITY RAILROAD REMARKS	Remarks on railroads accessible to the facility, including: distance/direction to nearest station; gauge /number of tracks; sidings and spurs to what part of facility; current construction and projected improvements.
		000 - CHAR: 1080 A/N	
	RSA	RAIL SIDING /SPUR ATTRIBUTE	Type of connecting track.
		001 - SPUR	A single track which diverges from the main track and leads and terminates at some facility, usually an industrial plant.
		002 - SIDING	A single track, which usually leads to a complex of tracks, connected at one or both ends to the main track, and used for storage or handling of RR cars.
		003 - PASSING	A single track connected to the main track at both ends and used for temporary holding, allowing trains to pass each other.
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL	>= 40% to < 75% metal
	VOL	VOLUME	Volume/Occupancy Level. This descriptor,has multiple meanings/applications: Size or capacity of industry, amount of activity, or vehicle occupation (i.e., numbers of automobiles/trucks, aircraft, RR cars, ships, etc.
		001 - EMPTY	Less than 5% occupancy
		002 - LIGHT	5-33 % occupancy
		003 - MODERATE	33-66% occupancy
		004 - HEAVY	66-100% occupancy
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

1N075 RR TURNTABLE — A ROTATING PLATFORM WITH RAILROAD TRACK USED FOR TURNING LOCOMOTIVES OR CARS.

Fcode	Feature	Attributes/Values	Definition
1N075	RR TURNTABLE (Cont.)		
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
1N080	RR YARD		A SYSTEM OF TRACKS WITHIN DEFINED LIMITS AND ASSOCIATED FEATURES, PROVIDED FOR ASSEMBLING AND DISPATCHING TRAINS, FOR STORING CARS, LOADING AND UNLOADING TRAINS, AND FOR OTHER PURPOSES.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	CTL CUMULATIVE TRACK LENGTH		Total cumulative length of track contained within confines of the feature, exclusive of the branch or main trunk lines running into and/or out of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Default: 0=Unknown Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1N080	RR YARD (Cont.)		
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A.	
		Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity pocential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	Tracks in place, but not in service.
		028 - OPERATIONAL - - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LTN	LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions.
			Increment: 1 Lane/Track Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
	VOL	VOLUME	Volume/Occupancy Level. This descriptor,has multiple meanings/applications: Size or capacity of industry, amount of activity, or vehicle occupation (i.e., numbers of automobiles/trucks, aircraft, RR cars, ships, etc.
		001 - EMPTY - - - - - - - - - - - - - -	Less than 5% occupancy
		002 - LIGHT - - - - - - - - - - - - - -	5-33 % occupancy
		003 - MODERATE - - - - - - - - - - - - -	33-66% occupancy
		004 - HEAVY - - - - - - - - - - - - - -	66-100% occupancy
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1N090	TRAMWAY /INCLINE RAILWAY		A LOCALIZED CARRIER COMPOSED OF CARS OR CABS RUNNING ON RAILS, USUALLY POWERED BY EXTERNAL ELECTRIC CONNECTIONS, PULLED BY CABLES OR RUN ON COGS. FOR AERIAL TRAMWAYS, SEE 1Q010.

Fcode	Feature	Attributes/Values	Definition
1N090	TRAMWAY /INCLINE RAILWAY (Cont.)		
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE 004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
1P010	CART TRACK		AN UNIMPROVED NATURAL TRAVELLED WAY THAT CAN ACCOMMODATE FOUR-WHEELED OR TRACKED VEHICLES AND CARTS.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		002 - 2	
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.

Fcode	Feature	Attributes/Values	Definition
1P010	CART TRACK (Cont.)		
	DIR DIRECTIVITY (Cont.)		
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF *RADAR SIGNIFICANCE FACTOR*		A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		006 - STREET - - - - - - - - - - - - - -	
		007 - THROUGH ROUTE - - - - - - - - - -	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
		018 - OTHER - - - - - - - - - - - - - -	
		022 - CARAVAN ROUTE - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	WTC ROUTE WEATHERABILITY CATEGORY		Ability of the route to withstand the effects of weather.
		002 - FAIR /DRY WEATHER - - - - - - - -	A route which quickly becomes impassable in adverse weather and cannot be kept open by maintenance short of major construction.
		003 - WINTER ONLY - - - - - - - - - - -	A route which is only serviceable during winter months of frozen ground/water conditions.
	WTW WIDTH OF TRAVELLED WAY		Width of the traveled way associated with the feature.
			Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Range: > 0...No Upper Limit	

1P020	INTERCHANGE		A SYSTEM OF ACCESS ROADS DESIGNED TO FACILITATE ENTRANCE OR EXIT BETWEEN MERGING OR INTERSECTING HIGHWAYS.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: -511...511	

Fcode	Feature	Attributes/Values	Definition
1P020	INTERCHANGE (Cont.)		
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - 028 - OPERATIONAL - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE - - - - - - - - 004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
	LTN	LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions. Increment: 1 Lane/Track Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	RID	ROAD IMPORTANCE DESCRIPTOR	The relative importance of a road.
		001 - PRIMARY - - - - - - - - - - - - - 002 - SECONDARY - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1P020	INTERCHANGE (Cont.)		
	RIT	ROAD INTERCHANGE TYPE	The type or style of road interchange.
		001 - CLOVER LEAF - - - - - - - - - - -	
		002 - DIAMOND - - - - - - - - - - - - -	
		011 - OTHER - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE - - - - - - - - - - - - -	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		014 - ASPHALT - - - - - - - - - - - - -	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	RST	ROAD/RUNWAY SURFACE TYPE	Physical surface characteristics of feature.
		001 - HARD SURFACE - - - - - - - - - - -	Roads designed to bear as a minimum fairly heavy loads. Surface of concrete bituminous /asphaltic concrete, paving brick /stone, bitumen penetrated macadam, water bound macadam with asphalt or tar cover.
		002 - LOOSE - - - - - - - - - - - - - -	Roads designed to bear light loads.Surface of gravel (or other coarse fragmental material) or natural or stabilized soil with a poor or no foundations; sometimes drained or graded.
		003 - LOOSE /LIGHT - - - - - - - - - - -	Roads designed to bear light loads.Surface of water bound macadam, light metal, crushed rock or gravel, or stabilized soil such as sand-clay on a lightfoundation; usually drained and graded.
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred ; ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		004 - ROAD - - - - - - - - - - - - - -	
		007 - THROUGH ROUTE - - - - - - - - - -	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER - - - - - - - - - - - - - -	
		050 - LIMITED ACCESS - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTC	ROUTE WEATHERABILITY CATEGORY	Ability of the route to withstand the effects of weather.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - ALL WEATHER - - - - - - - - - - -	With reasonable maintenance, route passable throughout the year to traffic never appreciably less than maximum capacity; usually with waterproof surface and only slightly affected by precipitation or temperature changes.
		002 - FAIR /DRY WEATHER - - - - - - - -	A route which quickly becomes impassable in adverse weather and cannot be kept open by maintenance short of major construction.
	WTW	WIDTH OF TRAVELLED WAY	Width of the traveled way associated with the feature.
			Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1P030	ROAD		AN OPEN WAY MAINTAINED FOR VEHICULAR USE.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	
		007 - DESTROYED - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
		035 - OTHER - - - - - - - - - - - - - -	
	FRK	FACILITY ACCESS AND ROADS REMARKS	Remarks on: Road classification (Primary, Secondary, or Trail); destination ; bridges (surface, width, WBD, condition); underpass clearances; current construction and planned improvements; information for on-base roads.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1P030	ROAD (Cont.)		
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE - - - - - - - -	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
	LTN	LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions.
			Increment: 1 Lane/Track Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	MED	MEDIAN CATEGORY	Presence of median.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - WITH MEDIAN - - - - - - - - - - -	
		002 - WITHOUT MEDIAN - - - - - - - - - -	
		003 - THROUGH ROUTE MEDIAN - - - - - - - -	Median is < 1.0 mm (at map scale) within the built-up area limits.
		004 - THROUGH ROUTE WITHOUT MEDIAN - - -	Median is >= 1.0 mm (at map scale) within the built-up area limits.
	MWD	MEDIAN WIDTH	The distance between connecting, adjacent, and two-way road centerlines having divided roadbeds, measured at map scale.
		001 - NO MEDIAN - - - - - - - - - - - -	
		002 - <= 1.50MM (AT MAP SCALE) - - - - - -	Median exists, but is <= 1.50 mm (at map scale).
		003 - > 1.50 MM (AT MAP SCALE) - - - - - -	Median exists, but is > 1.50 mm (at map scale).
	MWG	MEDIAN WIDTH WITH GREATER PRECISION	The measured distance at map scale between connecting, adjacent and two-way road centerlines having divided roadbeds.
			Increment: 0.01 Millimeter Limits: Predominant distance between roadbeds of a divided highway, measured centerline to centerline (at map scale). Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RID	ROAD IMPORTANCE DESCRIPTOR	The relative importance of a road.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - PRIMARY - - - - - - - - - - - - -	
		002 - SECONDARY - - - - - - - - - - - -	
		003 - DRIVES - - - - - - - - - - - - - -	
		004 - NARROW STREETS - - - - - - - - - -	Narrow streets in 'old town' and casbah areas.
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
		009 - CONCRETE - - - - - - - - - - - - -	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		014 - ASPHALT - - - - - - - - - - - - -	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	RST	ROAD/RUNWAY SURFACE TYPE	Physical surface characteristics of feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - HARD SURFACE - - - - - - - - - - -	Roads designed to bear as a minimum fairly heavy loads. Surface of concrete bituminous /asphaltic concrete, paving brick /stone, bitumen penetrated macadam, water bound macadam with asphalt or tar cover.
		002 - LOOSE - - - - - - - - - - - - - -	Roads designed to bear light loads.Surface of gravel (or other coarse fragmental material) or natural or stabilized soil with a poor or no foundations; sometimes drained or graded.
		003 - LOOSE /LIGHT - - - - - - - - - - -	Roads designed to bear light loads.Surface of water bound macadam, light metal, crushed rock or gravel, or stabilized soil such as sand-clay on a lightfoundation; usually drained and graded.
	SEP	SEPARATION CATEGORY	Indicates whether the road centerlines are separated by more than (or equal to) or less than 75 meters.

Pcode	Feature	Attributes/Values	Definition
1P030	ROAD (Cont.)		
	SEP	SEPARATION CATEGORY (Cont.)	
		001 - NOT SEPARATED	Connecting, adjacent, and 2way road centerlines having no median, or having divided roadbeds separated by a distance < 75 m.
		002 - SEPARATED	Connecting, adjacent, and 2 way road centerlines having divided roadbeds separated by a distance >= 75 m.
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		004 - ROAD	
		006 - STREET PATTERN	Intra city pattern only (in built-up areas).
		007 - THROUGH ROUTE	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
		023 - TRAFFIC CIRCLE ON THROUGH ROUTE/ ROAD	
		028 - LOGGING ROAD	Road used to support lumber or logging operations.
		029 - CORDUROY ROAD	Type of road though swamps, peat, or other unstable soils. An interweaving of rock, logs, and gravel.
		030 - STREET PATTERN TRAFFIC CIRCLE	A traffic circle associated with an intra-urban street pattern.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: Includes shoulders. Range: > 0...No Upper Limit
	WTC	ROUTE WEATHERABILITY CATEGORY	Ability of the route to withstand the effects of weather.
		000 - UNKNOWN	
		001 - ALL WEATHER	With reasonable maintenance, route passable throughout the year to traffic never appreciably less than maximum capacity; usually with waterproof surface and only slightly affected by precipitation or temperature changes.
		002 - FAIR /DRY WEATHER	A route which quickly becomes impassable in adverse weather and cannot be kept open by maintenance short of major construction.
	WTW	WIDTH OF TRAVELLED WAY	Width of the traveled way associated with the feature. Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given. Range: > 0...No Upper Limit
1P050	TRAIL		UNIMPROVED FOOTPATHS OR ANIMAL TRAVEL ROUTES NOT SUFFICIENTLY WIDE TO ACCOMMODATE FOUR-WHEELED VEHICLES OR CARTS.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A Range: -511...511
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		002 - 2	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI	Visually significant or reflective from all sides.

Fcode	Feature	Attributes/Values	Definition
1P050	TRAIL (Cont.)		
	FRK FACILITY ACCESS AND ROADS REMARKS		Remarks on: Road classification (Primary, Secondary, or Trail); destination ; bridges (surface, width, WBD, condition); underpass clearances; current construction and planned improvements; information for on-base roads.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		006 - STREET - - - - - - - - - - - - - -	
		007 - THROUGH ROUTE - - - - - - - - - -	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
		010 - OTHER - - - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	WTC ROUTE WEATHERABILITY CATEGORY		Ability of the route to withstand the effects of weather.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - FAIR /DRY WEATHER - - - - - - - - -	A route which is only serviceable during non-winter months of fair/dry weather.
		003 - WINTER ONLY - - - - - - - - - - -	A route which is only serviceable during winter months of frozen ground/water conditions.
	WTW WIDTH OF TRAVELLED WAY		Width of the traveled way associated with the feature.
			Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Range: > 0...No Upper Limit	

1Q010	AERIAL CABLEWAY LINE /SKI LIFT LINE	CABLES WHICH ARE STRUNG BETWEEN ELEVATED SUPPORTS AS PART OF A CONVEYOR SYSTEM ON WHICH CARS, BUCKETS, OR OTHER CARRIER UNITS ARE SUSPENDED.

Fcode	Feature	Attributes/Values	Definition
1Q010	AERIAL CABLEWAY LINE /SKI LIFT LINE (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	OWO	OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER. -	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER. - - - - - - - - - - - - -	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE - - - - - - - - - -	Feature does not cross over water.
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: The measurement shall be based upon the average HGT of the supporting structures. Variance: N/A
		Range: 0...No Upper Limit	
	SOC	SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature. Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER - - - - - - - - - - - - -	
		070 - RECREATIONAL - - - - - - - - - -	
		085 - TRANSPORTATION - - - - - - - - -	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - -	
		007 - MEAN HIGH WATER - - - - - - - - -	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.

Fcode	Feature	Attributes/Values	Definition
1Q010	AERIAL CABLEWAY LINE /SKI LIFT LINE (Cont.)		
	VDC	VERTICAL DATUM CATEGORY (Cont.)	
		009 - MEAN HIGH WATER SPRINGS - - - - -	
		010 - MEAN HIGHER HIGH WATER - - - - - -	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	
		024 - MEAN HIGHER HIGH WATER SPRINGS - -	
		026 - HIGHEST NORMAL HIGH WATER - - - -	
		028 - HIGHEST HIGH WATER - - - - - - - -	
		030 - INDIAN SPRING HIGH WATER - - - - -	
		031 - NOT APPLICABLE - - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From mean sea level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1Q020	AERIAL CABLEWAY PYLON /SKI LIFT PYLON		A TOWER SUPPORTING STEEL CABLES WHICH CONVEY CARS, BUCKETS, OR OTHER SUSPENDED CARRIER UNITS.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.

Fcode	Feature	Attributes/Values	Definition
1Q020	AERIAL CABLEWAY PYLON /SKI LIFT PYLON (Cont.)		
	ACC	ACCURACY CATEGORY (Cont.)	
		001 - ACCURATE	
		002 - APPROXIMATE	
	ADO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1Q020	AERIAL CABLEWAY PYLON /SKI LIFT PYLON (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1Q040	BRIDGE /OVERPASS /VIADUCT		A MAN-MADE STRUCTURE SPANNING AND PROVIDING PASSAGE OVER A BODY OF WATER, ROAD, RAILROAD, DEPRESSION, OR OTHER OBSTACLES.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	BCC BYPASS CONDITION CATEGORY		The ease or ability to circumvent a destroyed section of a bridge within a 2 kilometer distance on each side of the bridge. Bypass condition will not consider other bridges in bypass determination.
		001 - EASY - - - - - - - - - - - - - - -	The obstacle can be crossed within the immediate vicinity of the bridge by a U.S. 2.5 ton, 6 x 6 truck (or NATO equivalent) without work to improve the bypass.
		002 - DIFFICULT - - - - - - - - - - - -	The obstacle can be crossed within the immediate vicinity of the bridge, but some work will be necessary to prepare the bypass.

Fcode	Feature	Attributes/Values	Definition
1Q040	BRIDGE /OVERPASS /VIADUCT (Cont.)		
	BCC	BYPASS CONDITION CATEGORY (Cont.)	
		003 - IMPOSSIBLE	The obstacle can be crossed by: 1) repair of bridge 2) construction of new bridge 3) bridge detour (an alternate route, crossing the obstacle some distance from the original site, normally following existing roads)
	BDC	BRIDGE DESIGN CATEGORY	Structural design characteristics of the bridge or bridge segment.
		000 - UNKNOWN	
		001 - ARCH (CLOSED SPANDREL)	A bridge that consists of an arch(s) with closed or solid spandrel(s) and a floor system.
		002 - CANTILEVER	A bridge that has beams, girders, or trusses that extend toward each other beyond their means of support, and are joined together either directly or by a suspended span.
		003 - DECK	Support elements are below the deck and not in the form of an arch.
		004 - SLAB	A short span bridge consisting primarily of a reinforced concrete slab resting directly on the abutments or intermediate supports.
		005 - FLOATING BRIDGE	A temporary bridge that is supported by low flat bottom boats or other floating structures.
		006 - GIRDER	A bridge supported by two or more parallel girders with transverse floor beams.
		007 - STRINGER (BEAM)	A bridge in which the main supporting members are longitudinal spanning stringers (beams) upon which the flooring rests.
		008 - TRUSS	A bridge consisting of top and bottom cords with an intervening framework of diagonal, vertical, or horizontal elements transmitting the roadway loads to the substructure.
		009 - SUSPENSION	A bridge which has its roadway suspended by cables or chains that pass towers and are securely anchored at both ends of the suspended spans.
		011 - OTHER	
		012 - TRANSPORTER (FERRY BRIDGE)	A bridge in which traffic is carried in a cage or car which is suspended from an overhanging bridging member.
		014 - ARCH (OPEN SPANDREL)	A bridge that consists of an arch(s) with open spandrel(s) and floor system.
		015 - CABLE STAYED	A bridge where the intermediate support(s) have pole like towers with cables supporting the superstructure and roadway.
	BOT	BRIDGE OPENING TYPE	The type of structure or mechanism by which a portion of a bridge is moved to allow passage of a vessel.
		000 - UNKNOWN	
		004 - DRAW /BASCULE	A movable span that is opened by raising one end.
		010 - SWING	A movable span that is opened by turning it in a horizontal plane on a pivot system usually located at or near its center.
		011 - LIFT	A movable span that is opened by raising it vertically at both ends while maintaining it in a horizontal position.
		012 - RETRACTILE	Span that is opened by rolling it directly back from the opening along a horizontal track.
		013 - NOT APPLICABLE /FIXED	Superstructure designed to stay in one position.
		015 - OTHER	
	BVC	BRIDGE/VIADUCT CATEGORY	Divides elevated transportation structures into various subcategories, of which the two main ones are regular bridges and viaducts.
		000 - UNKNOWN	
		001 - BRIDGE	A single or multiple span elevated transportation structure which carries a railroad, road, or canal over drainage, another transportation feature, or (usually) small depression or obstacle.
		002 - VIADUCT	Bridge-like structure consisting of a long series of usually short evenly spaced spans, which lift a transportation route over water, congested urban areas, wet ground, or other obstacles or areas unsuitable for ground placement.
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existance.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.

Fcode	Feature	Attributes/Values	Definition
1Q040	BRIDGE /OVERPASS /VIADUCT (Cont.)		
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		007 - DESTROYED - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE	The distance available to pass a load that extends laterally beyond the wheels of a vehicle.
			Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: From lowest ground or water level to highest point of lowest deck surface. Variance: N/A
		Range: 0...No Upper Limit	
	IDN	IDENTIFICATION NUMBER	A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER - - - - - - - - - - - -	
	LC1	LOAD CLASS TYPE 1	Military load classification (weight bearing capacity) for one-way traffic of wheeled vehicles.
			Increment: 1 Short Ton Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	LC2	LOAD CLASS TYPE 2	Military load classification (weight bearing capacity) for two-way traffic of wheeled vehicles.
			Increment: 1 Short Ton Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	LC3	LOAD CLASS TYPE 3	Military load classification (weight bearing capacity) for one-way traffic of tracked vehicles.
			Increment: 1 Short Ton Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	

Fcode	Feature	Attributes/Values	Definition
1Q040	BRIDGE /OVERPASS /VIADUCT (Cont.)		
	LC4	LOAD CLASS TYPE 4	Military load classification (weight bearing capacity) for two-way traffic of tracked vehicles.
			Increment: 1 Short Ton Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured along the center line between the end points of the abutments. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Bridges-Distance between extreme end points of the structure(end walls/dams on the abutments). Spans-Length of spanning members or surface from abutment or center of intermediate support to adjacent one. Record documented/field checked data as given.
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		017 - COMPOSITION	Combination of materials
		018 - CONCRETE	
		048 - MASONRY	Stone or Brick, held together with mortar.
		060 - PRESTRESSED CONCRETE	
		065 - REINFORCED CONCRETE	
		083 - STEEL	
		086 - STONE	
		097 - WOOD	
		102 - OTHER	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	NOS	NUMBER OF SPANS	Number of spans within extent of bridge.
			Increment: 1 Span Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	OHB	OVERALL HEIGHT OF BRIDGE	The vertical distance from the lowest point to the tallest point on the bridge.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side),at ground or water level, to the tallest portion of the bridge (including any superstructure). Variance: N/A
		Range: > 0...No Upper Limit	
	OHC	OVERHEAD CLEARANCE CATEGORY	Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.
			Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	

Fcode	Feature	Attributes/Values	Definition
1Q040	BRIDGE /OVERPASS /VIADUCT (Cont.)		
	OWO	OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER. -	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER. - - - - - - - - - - - - -	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE - - - - - - - - - -	Feature does not cross over water.
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - - -	
		017 - PEDESTRIAN ONLY - - - - - - - - - -	
		019 - AQUEDUCT - - - - - - - - - - - - - -	
		020 - CANAL - - - - - - - - - - - - - - -	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
	UBC	UNDERBRIDGE CLEARANCE CATEGORY	The maximum clear distance under the bridge. Increment: 0.1 Meter Limits: Measured between the underside of the bridge and the surface of the ground,or average mean water level or Mean Sea Level below it. Variance: Documented or field checked data is recorded as given.
		Default: 0-Unknown Range: > 0...No Upper Limit	
	UT1	UTM GRID NORTHING	The full 7 digits of the UTM grid coordinate Northing value. Together, UTS a long with the last five digits of both UT1 and UT2, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.
		000 - CHAR: 7 N - - - - - - - - - - - -	
	UT2	UTM GRID EASTING	The full 6 digits of the UTM grid coordinate Easting value. Together, UTS along with the last five digits of both UT1 and UT2, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.
		000 - CHAR: 6 N - - - - - - - - - - - -	
	UTS	UTM SQUARE IDENTIFICATION	Identifies position of feature to within a specific 100,000 meter square. The identification is a 5 digit alpha-numeric designation, wherein the 1st two numbers are the UTM grid zone, the 3rd letter is the specific 6°x8° block within the grid zone (these 3 digits form a unique identifier called the Grid Zone Designation), and the last two letters are the 100,000 meter square identification. Together with the last 5 digits of the UT2 and UT1 attributes, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.
		000 - CHAR: 5 A/N - - - - - - - - - - -	
	UZ1	UTM GRID ZONE (1)	Two-character grid zone identifier.
		000 - CHAR: 2 A - - - - - - - - - - - -	
	UZ2	UTM GRID ZONE (2)	Two-character grid zone identifier.
		000 - CHAR: 2 A - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1Q040	BRIDGE /OVERPASS /VIADUCT (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Measured perpendicular to the traveled way. Variance: N/A
		Range: > 0...No Upper Limit	
	WT2 WIDTH OF SECOND TRAVELLED WAY		Minimum width of southern (or eastern, if vertical) side of travelled way surface associated with a road bridge divided by a barrier.
			Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Range: > 0...No Upper Limit	
	WTW WIDTH OF TRAVELLED WAY		Width of the traveled way associated with the feature.
			Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1Q045	BRIDGE SPAN		A SECTION OF THE BRIDGE DECK BETWEEN SUCCESSIVE SUPPORTS SUCH AS PILLARS, PIERS, OR ABUTMENTS.
	BSM BRIDGE SPAN MOBILITY		Identifies bridge spans that move in some manner to allow passage underneath the bridge span.
		000 - UNKNOWN 001 - MOVABLE SPAN 002 - FIXED SPAN	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		032 - NAVIGABLE	Bridge span under which navigation by water craft/vessels is intended.
		035 - OTHER	
	IDN IDENTIFICATION NUMBER		A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured along the centerline between the center points of the supports. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP LENGTH WITH GREATER PRECISION		The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1Q045	BRIDGE SPAN (Cont.)		
	LGP	LENGTH WITH GREATER PRECISION (Cont.)	
			Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Bridges-Distance between extreme end points of the structure(end walls/dams on the abutments). Spans-Length of spanning members or surface from abutment or center of intermediate support to adjacent one. Record documented/field checked data as given.
		Range: > 0...No Upper Limit	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN 008 - BRICK 017 - COMPOSITION	Combination of materials
		018 - CONCRETE 048 - MASONRY	Stone or Brick, held together with mortar.
		060 - PRESTRESSED CONCRETE 065 - REINFORCED CONCRETE 083 - STEEL 086 - STONE 097 - WOOD 102 - OTHER	
	SHC	SAFE HORIZONTAL CLEARANCE	Minimum horizontal clearance passing under a bridge span.
			Increment: 0.1 Meter Limits: Distance between adjacent bridge supports spanning a navigable channel. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	SOC	SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature.
			Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN 007 - MEAN HIGH WATER	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS 010 - MEAN HIGHER HIGH WATER	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL 023 - OTHER 024 - MEAN HIGHER HIGH WATER SPRINGS 026 - HIGHEST NORMAL HIGH WATER 028 - HIGHEST HIGH WATER 030 - INDIAN SPRING HIGH WATER 031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measured perpendicular to the traveled way. Variance: N/A
		Range: > 0...No Upper Limit	

1Q050	BRIDGE SUPERSTRUCTURE		THOSE ELEMENTS OF THE BRIDGE STRUCTURE WHICH ARE ABOVE THE LOWEST DECK.

Fcode	Feature	Attributes/Values	Definition
1Q050	BRIDGE SUPERSTRUCTURE (Cont.)		
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	BSC	BRIDGE AND /OR SUPERSTRUCTURE CATEGORY	Structural design characteristics.
		000 - UNKNOWN 002 - CANTILEVER 007 - TOWER SUSPENSION 008 - TRUSS 009 - SUSPENSION 013 - ARCH SUSPENSION 014 - MOVEABLE SPAN 015 - OTHER	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1Q050	BRIDGE SUPERSTRUCTURE (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	OHB OVERALL HEIGHT OF BRIDGE		The vertical distance from the lowest point to the tallest point on the bridge. Increment: 1 Meter Limits: Measured from the lowest point (downhill side),at ground or water level, to the tallest portion of the bridge (including any superstructure). Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1Q058	CONSTRICTION		A LOCATION OF A POINT WHERE A ROAD NARROWS, IMPEDING PASSAGE.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured along the overall centerline length of the traveled way within extent of feature. Variance: N/A
		Range: > 0...No Upper Limit	
	WTW WIDTH OF TRAVELLED WAY		Width of the traveled way associated with the feature. Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
		Default: 0=Unknown Range: >0...3.9	

Fcode	Feature	Attributes/Values	Definition
1Q060	CONTROL TOWER		A STRUCTURE THAT HOUSES THE PERSONS AND EQUIPMENT USED TO CONTROL THE FLOW OF AIR (WITHIN AN AIRPORT TRAFFIC AREA ONLY), RAIL, OR MARINE TRAFFIC.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DMS = 1
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DMS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DMS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DMS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DMS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DMS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DMS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DMS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DMS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DMS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DMS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DMS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DMS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DMS > 1845
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Pcode	Feature	Attributes/Values	Definition
1Q060	CONTROL TOWER (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1Q060	CONTROL TOWER (Cont.)		
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - -	
		012 - MARINE - - - - - - - - - - - - - -	
		013 - AIR - - - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1Q065	CULVERT		A CONDUIT FOR THE FREE PASSAGE OF SURFACE DRAINAGE WATER UNDER A HIGHWAY, RAILROAD, CANAL OR OTHER EMBANKMENT.
	CTC	CULVERT TYPE CATEGORY	Divides culverts into various subcategories, of which the two main ones are regular culverts and box culverts, either of which can be earth back-filled..
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - REGULAR, EARTH BACK-FILLED - - - -	One or more conduits that are covered with compacted soil, which is the load-bearing material.
		002 - BOX, EARTH BACK-FILLED - - - - - -	One or more conduits with a square or rectangular cross section, which are covered with compacted soil.
		003 - BOX, LOAD BEARING - - - - - - - -	One or more conduits with a square or rectangular cross section. Normally constructed of concrete or reinforced metal. The top member serves as the transport support surface or base and is the primary load-bearing member.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1Q065	CULVERT (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured parallel to surface drainage feature. Variance: N/A
		Range: > 0...No Upper Limit	
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - - -	
		006 - STREET - - - - - - - - - - - - - - -	
		007 - THROUGH ROUTE - - - - - - - - - - -	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
		020 - CANAL - - - - - - - - - - - - - - -	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes; for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1Q068	DROP GATE /ROLLING BLOCK		A SPECIALLY DESIGNED STRUCTURE OVER OR ADJACENT TO A ROAD OR RAILROAD WHICH, WHEN ACTIVATED, WILL FALL OR ROLL AND BLOCK THE ROUTE, PREVENTING FLOW OF TRAFFIC.
	DGC DROP GATE CATEGORY		Distinguishes between two drop gate types.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - OVERHEAD DROP - - - - - - - - - -	
		002 - SIDE DROP - - - - - - - - - - - -	
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - - -	
		020 - CANAL - - - - - - - - - - - - - - -	
1Q070	FERRY CROSSING		A ROUTE IN A BODY OF WATER WHERE A FERRY CROSSES FROM ONE SHORELINE TO ANOTHER.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		006 - ABANDONED - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	FCL FERRY CROSSING LENGTH		Length of crossing between shore points.

Fcode	Feature	Attributes/Values	Definition
1Q070	FERRY CROSSING (Cont.)		
	FCL	FERRY CROSSING LENGTH (Cont.)	
			Increment: 1 Meter Limits: Measured along traveled path. Variance: N/A
		Default: 0=Unknown Range: > 0...No Upper Limit	
	FER	FERRY TYPE	Indicates whether or not ferry travels along cables.
		000 - UNKNOWN 001 - FERRY WITH CABLES 002 - FERRY WITHOUT CABLES	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Straight line measurement bank to bank from initial to terminal site. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD 003 - RAILROAD 004 - ROAD 017 - PEDESTRIAN ONLY	

Fcode	Feature	Attributes/Values	Definition
1Q080	FERRY SITE /FERRY SLIP		A DOCKING FACILITY FOR A FERRY.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD 003 - RAILROAD 004 - ROAD 017 - PEDESTRIAN ONLY	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1Q080	FERRY SITE /FERRY SLIP (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1Q100	DISTANCE MARKER		A MARKER THAT INDICATES THE START /END OF DISTANCE COMPUTATION BETWEEN SELECTED POINTS.
	ATN AIDS TO NAVIGATION		Indication of whether a feature is marked or unmarked by navigation aids.
		001 - MARKED 002 - UNMARKED	
	DVA DISTANCE VALUE ATTRIBUTE		Distance recorded as a measurement between selected points.
			Increment: 1 Unit (UNI) Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	UNI UNITS CATEGORY		Unit of measure.
		010 - KILOMETERS 017 - NAUTICAL MILES 020 - STATUTE MILES	
1Q110	MOORING MAST		A TOWER-LIKE STRUCTURE USED TO SECURE AN AIRSHIP.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1Q110	MOORING MAST (Cont.)		
	AOO ANGLE OF ORIENTATION (Cont.)		
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existance.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline. 9998=All values > 9997 or N/A. Range: 1...9997	
	EDC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open - Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees - Largest percentage of area is covered by trees of any height.
		002 - 2	Structures - Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: Guy wires excluded.
		Range: > 0...No Upper Limit	
	GUG GUYED OR UNGUYED CATEGORY		Presence of support wires.
		000 - UNKNOWN 001 - GUYED 002 - UNGUYED	Wires present Wires not present
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Pcode	Feature	Attributes/Values	Definition
1Q110	MOORING MAST (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LNC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1Q111	PREPARED RAFT OR FLOAT BRIDGE SITE		SITE ON A LARGE RIVER OR CANAL WHICH HAS RAMP, PILING, AND /OR PIER STRUCTURES CONSTRUCTED ON ONE OR BOTH SHORES, TO ALLOW FOR *SUITABLE FUTURE* CROSSINGOPERATIONS USING FLOAT BRIDGE OR RAFTING EQUIPMENT.
1Q115	REST AREA /VEHICLE STOPPING AREA		A ROADSIDE PLACE USUALLY HAVING FACILITIES FOR PEOPLE AND /OR VEHICLES.
	LNC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to *LEN*.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Pcode	Feature	Attributes/Values	Definition
1Q116	ROUTE MARKER		AN EMBLEM USED TO DESIGNATE A ROAD'S NAME OR IDENTIFYING NUMBER.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		004 - ROAD - - - - - - - - - - - - - - -	
		007 - THROUGH ROUTE - - - - - - - - - -	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		004 - NATIONAL - - - - - - - - - - - - -	
		005 - STATE - - - - - - - - - - - - - - -	
		023 - INTERNATIONAL - - - - - - - - - -	

1Q118	SHARP CURVE		THE ROAD SEGMENT WHERE RADIUS OF CURVATURE BETWEEN THE POINT OF CURVATURE AND THE POINT OF TANGENCY ALONG THE CENTERLINE OF THE ROAD IS EQUAL TO OR LESS THAN 30 METERS.
	NOC	NUMBER OF CURVES	Number of closely spaced sharp curves aggregated together for portrayal with a single sharp curve symbol.
			Increment: 1 Sharp Curve Limits: Sharp curves must be within 250 meters of each other. Variance: N/A
		Range: > 0...No Upper Limit	

1Q125	STEEP GRADE		LOCATION ALONG ANY GIVEN TRAVELLED WAY WHERE THE PERCENT (%) SLOPE (RATIO OF CHANGE IN ELEVATION (VERTICAL DISTANCE) TO HORIZONTAL GROUND DISTANCE MULTIPLIED BY 100) IS HIGH ENOUGH TO SLOW, HINDER, OR EVEN STOP MOVEMENT.
	LOG	LENGTH OF GRADIENT	The length of a segment having a gradient >= 7 percent for a Road (1P030) or >= 3 percent for a Railroad Track (1N010).
			Increment: 1 Meter Limits: Measured along the centerline of the feature. Variance: The length of a segment having a gradient >= 7 percent for a Road (1P030) or 3 percent for a Railroad Track (1N010).
		Range: > 0...No Upper Limit	
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1Q131	TUNNEL		AN UNDERGROUND OR UNDERWATER PASSAGE, OPEN AT BOTH ENDS, USUALLY CONTAININGA ROAD, CANAL, RAILROAD OR AQUADUCT.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE	The distance available to pass a load that extends laterally beyond the wheels of a vehicle.
			Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	OHC	OVERHEAD CLEARANCE CATEGORY	Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.
			Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	TRA	TRAVERSABILITY ATTRIBUTE	Indicates whether the feature is traversable by foot.
		001 - TRAVERSABLE - - - - - - - - - - -	
		002 - NON-TRAVERSABLE - - - - - - - - -	
	TOC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - -	
		019 - AQUEDUCT - - - - - - - - - - - - -	
		020 - CANAL - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1Q132	TUNNEL ENTRANCE - EXIT		AN OPENING WHICH FUNCTIONS AS THE PRIMARY ACCESS TO AND/OR FROM A TUNNEL.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A Default: 63 Range: 0...31
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. 004 - 4 - - - - - - - - - - - - - - - -
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. 001 - 1 - - - - - - - - - - - - - - - -
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. 001 - 1 - - - - - - - - - - - - - - - -
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: N/A Range: 1...360
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE	The distance available to pass a load that extends laterally beyond the wheels of a vehicle. Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Interior measurement from floor to top of tunnel opening. Variance: N/A Range: 0...No Upper Limit
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature. 000 - ANY IDENTIFIER - - - - - - - - - -
	OHC	OVERHEAD CLEARANCE CATEGORY	Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it. Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given. Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
1Q132	TUNNEL ENTRANCE - EXIT (Cont.)		
	RSP	*RADAR SIGNIFICANCE FACTOR (Cont.)*	
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		003 - RAILROAD - - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Interior measurement from side to side of tunnel (at minimum expense). Variance: N/A
		Range: > 0...No Upper Limit	
1Q140	VEHICLE STORAGE /VEHICLE PARKING		A DESIGNATED LAND OR WATER AREA USED FOR STORING OR PARKING VEHICLES.
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1Q140	VEHICLE STORAGE /VEHICLE PARKING (Cont.)		
	LMC LANDMARK CATEGORY (Cont.)		
		001 - LANDMARK	
		002 - NOT LANDMARK	
	MOT MODE OF TRANSPORT		Type of vehicle which predominately uses the feature.
		001 - AIRCRAFT	
		003 - SHIP	Mooring area for inactivated ships. Excludes operating anchorages.
		004 - AUTOMOTIVE	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: Measured to the top of the vehicles, when present. Variance: If no PHT value predominates then the greatest PHT value in the aggregate shall be used. The PHT shall be adjusted to account for significantly taller structures, if these structures occupy >= 15% of the areal feature, are > 6m taller than the ...
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1R005	AIR OBSTRUCTION LIGHT		A LIGHT OR LIGHTS MARKING AN OBSTACLE WHICH CONSTITUTES A DANGER TO AIR NAVIGATION.
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	OLQ OBSTRUCTION LIGHT QUALITY		Indicates whether single or multiple obstruction lights are present.
		000 - UNKNOWN	
		001 - ONE LIGHT PRESENT	
		002 - MULTIPLE LIGHTS PRESENT	
1R010	AIRSPACE		THE REGION OF THE ATMOSPHERE ABOVE A PLOT OF THE EARTH'S SURFACE.
	AID AIRSPACE IDENTIFICATION		The official designator as assigned to the airspace by the host nation. Those portions of the designator not provided will be created by Site 30 area analyst and enclosed within parentheses.

Fcode	Feature	Attributes/Values	Definition
1R010	AIRSPACE (Cont.)		
	AID AIRSPACE IDENTIFICATION (Cont.)		
		000 - CHAR: 12 A/N	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	AUA ATS USE ATTRIBUTE		The particular use of the designated airspace.
		000 - UNKNOWN	
		001 - ADVISORY AREA (ADA)	
		002 - AIR DEFENSE IDENTIFICATION ZONE (ADIZ)	
		003 - AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC)	
		004 - ALERT AREA	
		005 - AREA CONTROL CENTER (ACC)	
		006 - BUFFER ZONE (BZ)	
		007 - CANADIAN AIR DEFENSE IDENTIFICATION ZONE (CADIZ)	
		008 - CONTROL AREA (CTA)	
		009 - CONTROL ZONE (CTLZ)	
		010 - DANGER AREA	
		011 - DEW EAST MILITARY IDENTIFICATION ZONE (DEWIZ)	
		012 - DISTANT EARLY WARNING IDENTIFICATION ZONE (DEWIZ)	
		013 - FLIGHT INFORMATION REGION (FIR)	
		014 - FRENCH PERIPHERAL IDENTIFICATION ZONE (LIP)	
		015 - MILITARY AERODROME TRAFFIC ZONE (MATZ)	
		016 - MILITARY COMMON AREA CONTROL (MCAC)	
		017 - MILITARY CLIMB CORRIDOR (MCC)	
		018 - MILITARY FLYING AREA (CANADA, MFA)	
		019 - MID-CANADA IDENTIFICATION ZONE (MIDIZ)	
		020 - MILITARY OPERATIONS AREA (MOA)	
		021 - MILITARY TERMINAL CONTROL AREA (MTCA)	
		022 - MILITARY UPPER CONTROL AREA (MUCA)	
		023 - OCEANIC CONTROL AREA (NON-FAA) (OCA)	
		024 - OPERATING AREA (OPAREA)	
		025 - PROHIBITED AREA	
		026 - POSITIVE CONTROL AREA (PCA)	
		027 - POSITIVE CONTROL ZONE (PCZ)	
		028 - RADAR AREA	
		029 - RESTRICTED AREA	
		030 - SECURITY IDENTIFICATION ZONE (SIZ)	
		031 - SPECIAL AIR TRAFFIC RULES AREA	
		032 - SPECIAL RULES ZONE	
		033 - TRANSITION AREA (FOR CHART USE ONLY, TA)	
		034 - TERMINAL CONTROL AREA (TCA)	
		035 - CONTINENTAL CONTROL AREA (CCA)	
		036 - TOUCHDOWN ZONE	
		037 - TERMINAL RADAR SERVICE AREA (TRSA)	
		038 - UPPER ADVISORY AREA (UDA)	
		039 - UPPER CONTROL AREA (UTA)	
		040 - UPPER FLIGHT INFORMATION REGION (UIR)	
		041 - WARNING AREA	
		042 - ZONE OF INTERIOR (ZI)	
		043 - OTHER	
		044 - KOREA LIMITED IDENTIFICATION ZONE (KLIZ)	
		045 - UNCONTROLLED AIRSPACE	
		046 - CONTROLLED AIRSPACE	
		047 - AIRPORT TRAFFIC AREA (ATA)	
		048 - AIRPORT RADAR SERVICE AREA (ARSA)	
		049 - CONTROLLED FIRING AREA	
		050 - PARACHUTE JUMP AREA	
		051 - AIRPORT ADVISORY AREA	
		052 - DESIGNATED MOUNTAINOUS AREA	
		053 - OCEANIC CONTROL	
		054 - NON-FREE FLYING AREA	
		055 - CONTROL ZONE - NO FIXED WING SPECIAL VFR PERMITTED	
		056 - ALTIMETER CHANGE BOUNDARY	

Fcode	Feature	Attributes/Values	Definition
1R010	AIRSPACE (Cont.)		
	AUA	ATS USE ATTRIBUTE (Cont.)	
		057 - DEFENSE AREA	
		058 - AERODROME CONTROL ZONE	
		059 - CLASS 'C' CONTROL ZONE	
		060 - SPARSELY SETTLED AREA	
		061 - NORTHERN DOMESTIC AIRSPACE	
		062 - ICAO CROSSOVER	
		063 - UPPER AIRSPACE CENTERS OPERATIONAL AIR TRAFFIC	Above FL245 OAT
		064 - CONTROLLED VISUAL FLIGHT RULES (CVFR)	
		065 - BIRD HAZARD AREAS	
		066 - TEMPORARY RESERVED AIRSPACE (TRA)	
		067 - AIR ROUTE TRAFFIC CONTROL CENTER SECTOR OR DISCRETE SECTOR	
		068 - SUB FLIGHT INFORMATION REGION (SUB FIR)	
		069 - RADAR AREA SECTOR BOUNDARY	
		070 - OCEANIC CONTROL AREA (FAA) (CTA)	
		071 - RADAR - STAGE 1	
		072 - RADAR - STAGE 2	
		073 - RADAR - STAGE 3	
		074 - REFUELING /TRACK AREA	
		076 - BERLIN CONTROL ZONE ASSOCIATED CORRIDORS	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	OPT	OPERATING TIMES	The feature's operating hours, days, months, etc.
		000 - CHAR: 240 A/N	

1R030 NAVAIDS (AERONAUTICAL)

ANY VISUAL OR ELECTRONIC DEVICE, EXCLUDING AIRCRAFT FACILITY BEACON (1U040), WHICH PROVIDES POINT-TO-POINT GUIDANCE INFORMATION OR POSITION TO AIRCRAFT.

1AO DERIVED ANGLE OF ORIENTATION CODE .....

For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Increment:
Limits: N/A
Variance: N/A

Default: 63
Range: 0...31

1HT DERIVED HEIGHT .....

For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...511

1LN DERIVED LENGTH .....

For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

1WD DERIVED WIDTH .....

For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

AOO ANGLE OF ORIENTATION .....

The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
1R030	NAVAIDS (AERONAUTICAL) (Cont.)		
	ACO	ANGLE OF ORIENTATION (Cont.)	
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2HD80, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, *9998=All values > 9997 or N/A.* Range: 1...9997	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN 011 - TEMPORARY 033 - CONTINUOUS OPERATION 034 - INTERMITTENT OPERATION 036 - COMMISSIONED AND OPERATIONAL 037 - COMMISSIONED AND ON TEST *038 - COMMISSIONED AND OUT OF SERVICE* 039 - NOT COMMISSIONED AND OPERATIONAL 040 - NOT COMMISSIONED AND ON TEST 041 - NOT COMMISSIONED AND OUT OF SERVICE	Contingency Operational Use. Commissioned by host country and facility is operational. Commissioned by host country and facility is on test. Commissioned by host country and facility is *out of service.* Not commissioned by host country and facility is operational. Not commissioned by host country and facility is on test. Not commissioned by host country and facility is out of service.
	FRE	NAVAID FREQUENCY	Frequency assigned by the controlling authority with the unit of measurement as listed in UNI.
		000 - CHAR: 8 A 001 - NOT APPLICABLE	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE 003 - ON GROUND SURFACE 004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	Located on platform (2D110).
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RST	RADIO NAVIGATION /COMMUNICATION	Type of equipment or system used.

Fcode	Feature	Attributes/Values	Definition
1R030	NAVAIDS (AERONAUTICAL) (Cont.)		
	NST RADIO NAVIGATION /COMMUNICATION (Cont.)		
		000 - UNKNOWN	
		002 - CONSOL	
		003 - DECCA	
		005 - DIRECTIONAL RADIOBEACON	
		007 - LORAN	
		008 - OMEGA	
		009 - OTHER	
		010 - RADAR BEACON (RACON)	
		011 - RADAR	
		012 - RADIO	
		016 - MICROWAVE	
		017 - NON-DIRECTIONAL RADIOBEACON (NDB)	
		018 - NDB /DME	
		019 - RNG	
		020 - VOR OMNIRANGE	
		021 - VOR /DME	
		022 - VORTAC OMNIRANGE	
		023 - TACAN	
		024 - ILS	
		025 - ILS /DME	
		026 - LOC	
		027 - LOC /DME	
		030 - MLS	
		031 - FAN MARKER	
		032 - BONE MARKER	
		035 - RADAR ANTENNA	
		038 - DISTANCE MEASURING EQUIPMENT (DME)	
		039 - ILS BACK COURSE	
		040 - LOC BACK COURSE	
		041 - RADAR REFLECTOR	
		042 - VOR TEST SIGNAL (VOT)	
		043 - MARKER	
		044 - RANGE	
		045 - NON-DIRECTIONAL RADIOBEACON MARINE (MNDB)	
	RGE TRANSMITTER EFFECTIVE RANGE		Transmitter capacity expressed as effective range. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Range: 1...998	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC STRUCTURE SHAPE CATEGORY		Shape, appearance, or configuration of the feature.
		000 - UNKNOWN	
		040 - DOME	Facility is covered by a domed roof.
		070 - OTHER	
	VAC VISUAL AIDS CATEGORY		Identifies the type of visual ground signs for aeronautical aids.
		000 - UNKNOWN	The VAC is unknown
		001 - SHORE (MARKER)	Visible from shoreline side of marker
		002 - LAND (MARKER)	Visible from land side of marker
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.

Fcode	Feature	Attributes/Values	Definition
1R030	NAVAIDS (AERONAUTICAL) (Cont.)		
	ZVL Z VALUE (Cont.)		Increment: 1 Meter Limits: The elevation of the feature as referenced to Mean Sea Level. Variance: N/A
		Range: -400...30000	
1R035	RADAR REFLECTOR		A DEVICE SPECIALLY DESIGNED AND ORIENTED SO AS TO REFLECT RADAR SIGNALS.
	1AR DERIVED ANGLE OF RADAR REFLECTOR		For computation only, ARR shall be rounded to the nearest 5 degree increment. 1AR = ARR/11.25 (rounded to nearest whole number). If ARR = 360, then 1AR = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARR ANGLE OF RADAR REFLECTOR		The angular distance of the radar reflector. Increment: 1 Degree Limits: Measured from True North (0 dg), clockwise to the first encountered reflective side, or the only reflective side of the radar reflector. Variance: If DIR = 1, ARR = 0-359. If DIR = 2, ARR = 0-179. If DIR = 3, ARR = 360
		Range: 0...360	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT ONI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point of the base (downhill side) to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
1R035	RADAR REFLECTOR (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER - - - - - - - - - - - - - -	
		071 - RUNWAY - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1T005	CABLE		AN INSULATED WIRE, FIBER, OR GROUP OF SAME FORMED INTO ONE CONTINUOUS STRAND, LOCATED UNDER GROUND OR UNDER WATER.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		006 - ABANDONED - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE - - - - - - -	
		006 - BELOW WATER SURFACE - - - - - - -	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		051 - TELEGRAPH - - - - - - - - - - - -	
		052 - TELEPHONE - - - - - - - - - - - -	
		053 - POWER - - - - - - - - - - - - - -	
1T010	DISH		A LARGE FREE STANDING CONCAVE OBJECT USED FOR SIGNAL COMMUNICATION.
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Fcode	Feature	Attributes/Values	Definition
1T010	DISH (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE	CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DPS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1T020	EARLY WARNING RADAR SITE		AN INSTALLATION UTILIZING LONG RANGE RADAR TO DETECT APPROACHING AIRCRAFT OR MISSILES.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	

Fcode	Feature	Attributes/Values	Definition
1TD20	EARLY WARNING RADAR SITE (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DPS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1T030	POWER TRANSMISSION LINE		A SYSTEM OF ABOVE GROUND WIRES WHICH TRANSMIT ELECTRICITY OVER DISTANCE.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
1T030	POWER TRANSMISSION LINE (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	KVA	KILOVOLT ATTRIBUTE	Maximum voltage available on the line, as reported in kilovolts.
		000 - CHAR: 4 N - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NPL	NUMBER OF PARALLEL LINES	Number of parallel lines within feature.
			Increment: 1 Power Line Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	OWO	OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER. -	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER. - - - - - - - - - - - - -	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE - - - - - - - - - -	Feature does not cross over water.
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: The measurement shall be based upon the average HGT of the supporting structures. Variance: N/A
		Range: 0...No Upper Limit	
	PLC	POWER LINE CATEGORY	Identifies a alpha alpha code that relates to the construction material and height of the feature for portrayal.
		001 - AA - - - - - - - - - - - - - - - -	Feature is metal construction, height > 149'.
		002 - AB - - - - - - - - - - - - - - - -	Feature is metal construction, height 100'-149'.
		003 - AC - - - - - - - - - - - - - - - -	Feature is metal construction, height < 100'.
		004 - BA - - - - - - - - - - - - - - - -	Feature is concrete construction, height > 149'.
		005 - BB - - - - - - - - - - - - - - - -	Feature is concrete construction, height 100'-149'.
		006 - BC - - - - - - - - - - - - - - - -	Feature is concrete construction, height < 100'.
		007 - CA - - - - - - - - - - - - - - - -	Feature is wood construction, height > 149'.
		008 - CB - - - - - - - - - - - - - - - -	Feature is wood construction, height 100' - 149'.
		009 - CC - - - - - - - - - - - - - - - -	Feature is wood construction, height < 100'.
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SOC	SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature.

Fcode	Feature	Attributes/Values	Definition
1T030	POWER TRANSMISSION LINE (Cont.)		
	SOC SAFE OVERHEAD CLEARANCE (Cont.)		
			Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	TST TRANSMISSION LINE SUSPENSION TYPE		Power transmission lines that are suspended between pylons.
		001 - NORMAL SUSPENSION - - - - - - - -	Power transmission line(s) (cables) that are suspended between regularly spaced pylons where neither cables nor the pylon usually do not exceed obstruction requirements.
		002 - CATENARY (OVER MOUNTAINS) - - - -	Power transmission line(s) (cables) which span valleys from top of mountains or ridges where the cable height above the valley floor exceeds the obstruction requirements, but the pylon height is less than the requirement.
		003 - CATENARY (OVER WATER) - - - - - -	Power transmission line(s) (cables) which span water bodies on pylons that are equal to or greater than the obstruction requirements.
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - -	
		007 - MEAN HIGH WATER - - - - - - - - -	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS - - - - -	
		010 - MEAN HIGHER HIGH WATER - - - - - -	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	
		024 - MEAN HIGHER HIGH WATER SPRINGS - -	
		026 - HIGHEST NORMAL HIGH WATER - - - -	
		028 - HIGHEST HIGH WATER - - - - - - - -	
		030 - INDIAN SPRING HIGH WATER - - - - -	
		031 - NOT APPLICABLE - - - - - - - - - -	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1T040	POWER TRANSMISSION PYLON		A POLE OR TOWER USED TO SUPPORT A POWERLINE.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1TD40	POWER TRANSMISSION PYLON (Cont.)		
	1LN DERIVED LENGTH (Cont.)		
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	ADO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existance.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	EDC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal

Fcode	Feature	Attributes/Values	Definition
1T040	POWER TRANSMISSION PYLON (Cont.)		
	SSC STRUCTURE SHAPE CATEGORY	000 - UNKNOWN 052 - 'A' FRAME 053 - 'H' FRAME 054 - 'I' FRAME 056 - 'Y' FRAME	Shape, appearance, or configuration of the feature.
	WID WIDTH	Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
	ZVL Z VALUE	Range: -400...30000	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
1T045	RADAR TRANSMITTER/RADOME		A DEVICE FOR TRANSMITTING AND RECEIVING RADAR EMISSIONS.
	COC CONSPICUOUS OBJECT CATEGORY	001 - CONSPICUOUS 002 - NOT CONSPICUOUS	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
	DFS DISTANCE FROM SHORELINE	Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
	SSC STRUCTURE SHAPE CATEGORY	000 - UNKNOWN 040 - DOME 079 - OTHER 099 - MAST 100 - TOWER 101 - SCANNER	Shape, appearance, or configuration of the feature. Facility is covered by a domed roof.
1T050	COMMUNICATIONS FACILITY		A FACILITY IN WHICH COMMUNICATION SIGNALS ORIGINATE AND ARE TRANSMITTED OR RECEIVED.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only. AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Fcode	Feature	Attributes/Values	Definition
1T050	COMMUNICATIONS FACILITY (Cont.)		
	1AO DERIVED ANGLE OF ORIENTATION CODE (Cont.)		Increment: N/A Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2 - - - - - - - - - - - - - - - -	DRS > 679
		003 - 3 - - - - - - - - - - - - - - - -	DRS > 105 and <= 679
		008 - 8 - - - - - - - - - - - - - - - -	DRS > 1 and <= 105
		010 - 10 - - - - - - - - - - - - - - - -	DRS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DNS = 1
		001 - 1 - - - - - - - - - - - - - - - -	DNS > 1 and <= 105
		002 - 2 - - - - - - - - - - - - - - - -	DNS > 105 and <= 252
		003 - 3 - - - - - - - - - - - - - - - -	DNS > 252 and <= 544
		004 - 4 - - - - - - - - - - - - - - - -	DNS > 544 and <= 679
		005 - 5 - - - - - - - - - - - - - - - -	DNS > 679 and <= 825
		006 - 6 - - - - - - - - - - - - - - - -	DNS > 825 and <= 971
		007 - 7 - - - - - - - - - - - - - - - -	DNS > 971 and <= 1114
		008 - 8 - - - - - - - - - - - - - - - -	DNS > 1114 and <=1262
		009 - 9 - - - - - - - - - - - - - - - -	DNS > 1262 and <= 1408
		010 - 10 - - - - - - - - - - - - - - - -	DNS > 1408 and <= 1554
		011 - 11 - - - - - - - - - - - - - - - -	DNS > 1554 and <= 1700
		012 - 12 - - - - - - - - - - - - - - - -	DNS > 1700 and <= 1845
		013 - 13 - - - - - - - - - - - - - - - -	DNS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DNT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DNT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DNT >= 30
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: N/A Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	ADO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.

Fcode	Feature	Attributes/Values	Definition
1T050	COMMUNICATIONS FACILITY (Cont.)		
	COE	CERTAINTY OF EXISTENCE (Cont.)	
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IDN	IDENTIFICATION NUMBER	A unique number relating specific interior map /chart features to border information.
		000 - ANY NUMBER	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RST	RADIO NAVIGATION /COMMUNICATION	Type of equipment or system used.
		012 - RADIO	
		013 - RADIO TELEPHONE	
		015 - TV	
		016 - MICROWAVE	
		033 - RADIO TELEGRAPH	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
1T050	COMMUNICATIONS FACILITY (Cont.)		
	RSP RADAR SIGNIFICANCE FACTOR (Cont.)		
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
1T060	TELEPHONE LINE /TELEGRAPH LINE		A SYSTEM OF ABOVE GROUND WIRES WHICH TRANSMIT ELECTRICAL SIGNALS OVER DISTANCE.
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		031 - ISOLATED	
		042 - NOT ISOLATED	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
1T060	TELEPHONE LINE /TELEGRAPH LINE (Cont.)		
	LMC LANDMARK CATEGORY (Cont.)		
		001 - LANDMARK	
		002 - NOT LANDMARK	
	OWO OVER WATER OBSTRUCTION		Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER.	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER.	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE	Feature does not cross over water.
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: The measurement shall be based upon the average HGT of the supporting structures. Variance: N/A
		Range: 0...No Upper Limit	
	SOC SAFE OVERHEAD CLEARANCE		Minimum clearance for passing underneath the feature.
			Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		007 - MEAN HIGH WATER	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS	
		010 - MEAN HIGHER HIGH WATER	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		024 - MEAN HIGHER HIGH WATER SPRINGS	
		026 - HIGHEST NORMAL HIGH WATER	
		028 - HIGHEST HIGH WATER	
		030 - INDIAN SPRING HIGH WATER	
		031 - NOT APPLICABLE	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1T070	TELEPHONE PYLON /TELEGRAPH PYLON		A POLE OR TOWER USED TO SUPPORT A TELEPHONE OR TELEGRAPH LINE.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	

Fcode	Feature	Attributes/Values	Definition
1T070	TELEPHONE PYLON /TELEGRAPH PYLON (Cont.)		
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
1T070	TELEPHONE PYLON /TELEGRAPH PYLON (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
1T080	TOWER (COMMUNICATION)		A RELATIVELY TALL STRUCTURE USED FOR TRANSMITTING OR RECEIVING COMMUNICATION SIGNALS.
	1AO DERIVED ANGLE OF ORIENTATION CODE		For computation only, ACO shall be rounded to the nearest 5 degree increment. 1AO = ACO/11.25 (rounded to nearest whole number). If ACO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN DERIVED LENGTH		For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	DFS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2HD80, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1T080	TOWER (COMMUNICATION) (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EDC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: Guy wires excluded.
		Range: > 0...No Upper Limit	
	GUG	GUYED OR UNGUYED CATEGORY	Presence of support wires.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - GUYED - - - - - - - - - - - - - -	Wires present
		002 - UNGUYED - - - - - - - - - - - - -	Wires not present
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or ONB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	
	NST	RADIO NAVIGATION /COMMUNICATION	Type of equipment or system used.
		000 - UNKNOWN - - - - - - - - - - - -	
		002 - CONSOL - - - - - - - - - - - - -	
		003 - DECCA - - - - - - - - - - - - - -	
		007 - LORAN - - - - - - - - - - - - - -	
		008 - OMEGA - - - - - - - - - - - - - -	
		012 - RADIO - - - - - - - - - - - - - -	
		013 - RADIO TELEPHONE - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1T080	TOWER (COMMUNICATION) (Cont.)		
	NST	RADIO NAVIGATION /COMMUNICATION (Cont.)	
		015 - TV	
		016 - MICROWAVE	
		033 - RADIO TELEGRAPH	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		052 - 'A' FRAME	
		053 - 'H' FRAME	
		054 - 'I' FRAME	
		056 - 'Y' FRAME	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

1U025	AIRCRAFT LANDING PAD		AN IMPROVED AREA DESIGNATED FOR USE DURING VERTICAL TAKE-OFF AND LANDING BY AIRCRAFT.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	AFT	AIRCRAFT FACILITY TYPE	The facility type based upon the primary kind of aircraft that use this feature and/or the type of landing area(s) available.
		001 - AIRPORT	This feature is intended to be used primarily by conventional, fixed wing aircraft.
		002 - HELIPORT	This feature is intended to be used primarily by rotary wing and /or VTOL aircraft.
		005 - OTHER	
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.

Fcode	Feature	Attributes/Values	Definition
10025	AIRCRAFT LANDING PAD (Cont.)		
	EXS	EXISTENCE CATEGORY (Cont.)	
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	
		009 - NOT USABLE	Feature is visible from the air but is not usable for the landing and take-off of normal fixed-wing aircraft due to runways or landing areas being overgrown or deteriorated.
		027 - CLOSED	
		028 - OPERATIONAL	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level, to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE	Located on platform (2D110).
		009 - OTHER	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		002 - ASPHALT	
		005 - BEDROCK	
		014 - CLAY	
		018 - CONCRETE	
		019 - CORAL	
		023 - EARTHEN	Graded or rolled earth either with or without grass.
		034 - GRASS	Unprepared earth with or without grass.
		035 - GRAVEL	
		048 - MASONRY	Stone or Brick, held together with mortar.
		069 - SAND	
		077 - SOIL	
		083 - STEEL	Pierced steel plank.
		102 - OTHER	
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	Concrete, asphalt, and /or bituminous-bound macadam.
		112 - LATERITE	
		113 - WATER	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.

Fcode	Feature	Attributes/Values	Definition
10025	AIRCRAFT LANDING PAD (Cont.)		
	USE USE STATUS (Cont.)		
		010 - OTHER	
		043 - HOSPITAL	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
10030	AIRCRAFT FACILITY		AN AREA OF LAND AND /OR WATER USED FOR LANDING, TAKE-OFF, AND MOVEMENT OF AIRCRAFT INCLUDING ASSOCIATED BUILDINGS AND FACILITIES.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
	ADD ANALYST CODE		Analyst's two letter code assigned to indicate his /her area of responsibility.
		000 - CHAR: 2 A/N	
	APT AIRCRAFT FACILITY TYPE		The facility type based upon the primary kind of aircraft that use this feature and/or the type of landing area(s) available.
		000 - UNKNOWN	
		001 - AIRPORT	This feature is intended to be used primarily by conventional, fixed wing aircraft.
		002 - HELIPORT	This feature is intended to be used primarily by rotary wing and /or VTOL aircraft.
		003 - SEAPLANE BASE	This feature has water as the surface of its principle landing area(s).
		004 - UNDEFINED LANDING AREA	A maintained but unimproved natural area without defined runway(s) used for aircraft landing and take off. Dimensions (LEN and WID) are of the overall landing area.
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	AST AIRPORT STRIP TYPE		If applicable, the type of strip this aircraft facility is.
		001 - NONE	
		002 - HIGHWAY STRIP	
		003 - ICE STRIP	
		004 - SNOW STRIP	
		005 - DECOY	
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN	
		002 - LIMITS AND INFO UNKNOWN	
	DPS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).

Fcode	Feature	Attributes/Values	Definition
1U030	AIRCRAFT FACILITY (Cont.)		
	DFS DISTANCE FROM SHORELINE (Cont.)		
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DOI DATE OF INFORMATION		Date of source used where: 1-2 Month, 3-4 Day, 5-6 Year.
		000 - CHAR: 6 A/N - - - - - - - - - - -	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		003 - REPORTED - - - - - - - - - - - - -	
		005 - UNDER CONSTRUCTION - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	Feature with usable runway(s) or landing area(s) but which is abandoned or closed on a permanent, indefinite, or temporary basis.
		009 - NOT USABLE - - - - - - - - - - - -	Feature is visible from the air but is not usable for the landing and take-off of normal fixed-wing aircraft due to runways or landing areas being overgrown or deteriorated.
		028 - OPERATIONAL - - - - - - - - - - -	
	FPT FACILITY PRIORITY TYPE		Indicates the priority status of the facility.
		001 - MAJOR - - - - - - - - - - - - - -	Associated Runway (1U160) is >= 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		002 - MINOR (HARD) - - - - - - - - - - -	Associated Runway (1U160) is < 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		003 - MINOR (SOFT) - - - - - - - - - - -	Associated Runway (1U160) has a MCP of 014, 019, 023, 034, 035, 069, 103, 106, 107, 112.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	IB1 INTERIM BASIC ENCYCLOPEDIA NUMBER (1)		The interim WAC-BE Number of the airport as identified by another agency (1) .
		000 - CHAR: 10 A/N - - - - - - - - - - -	
	IB2 INTERIM BASIC ENCYCLOPEDIA NUMBER (2)		The interim WAC-BE Number of the airport as identified by another agency (2) .
		000 - CHAR: 10 A/N - - - - - - - - - - -	
	IB3 INTERIM BASIC ENCYCLOPEDIA NUMBER (3)		The interim WAC-BE Number of the airport as identified by another agency (3) .
		000 - CHAR: 10 A/N - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	NM1 PRIMARY NAME CATEGORY		The primary official name as designated by the operating agency, FAA, or by official publications of the country in which the facility is located.
		000 - CHAR: 38 A/N - - - - - - - - - - -	
	RST ROAD/RUNWAY SURFACE TYPE		Physical surface characteristics of feature.
		000 - UNKNOWN - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
10030	AIRCRAFT FACILITY (Cont.)		
	RST ROAD/RUNWAY SURFACE TYPE (Cont.)		
		001 - HARD SURFACE	Roads designed to bear as a minimum fairly heavy loads. Surface of concrete bituminous /asphaltic concrete, paving brick /stone, bitumen penetrated macadam, water bound macadam with asphalt or tar cover.
		002 - LOOSE	Roads designed to bear light loads.Surface of gravel (or other coarse fragmental material) or natural or stabilized soil with a poor or no foundations; sometimes drained or graded.
		003 - LOOSE /LIGHT	Roads designed to bear light loads.Surface of water bound macadam, light metal, crushed rock or gravel, or stabilized soil such as sand-clay on a lightfoundation; usually drained and graded.
		005 - NATURAL	The feature's surface is not prepared and consists primarily of one of the following: coral, grass, gravel, laterite, sand, snow or ice, or water.
		006 - PERMANENT	The feature's surface is prepared and consists primarily of the following: asphalt, masonry (stone /brick), concrete, bedrock, or bitumen-bound.
		007 - TEMPORARY	The feature's surface is prepared and consists primarily of the following: clay, coral, earthen, gravel, laterite, macadam, membrane, non-bituminous binding mix-in-place, steel or aluminum plank, or sand.
	TXT TEXT ATTRIBUTE		Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION	
	USE USE STATUS		Identifies the primary user, function, or controlling authority.
		000 - UNKNOWN	
		008 - MILITARY	Feature controlled and operated primarily by military authorities primarily for use by military; civil may have landing privileges. Facilities as for civilian feature.
		022 - JOINT MILITARY /CIVILIAN	Feature jointly controlled /operated /used by both civil military agencies; military must be permanent operational flight line tenants (with or without a/c). Facilities as for civilian feature.
		048 - DECOY	An airport designed to resemble a usable airport but is not capable of supporting aircraft operations of any kind.
		049 - CIVILIAN	Feature controlled operated by civil authorities primarily for civil use; military may have landing privileges. Minimum facilities are: ATC mechanism, POL, lighting, first echelon maintenance.
		050 - LIMITED ACCESS	Feature having natural, temporary, or permanent type surface runway(s) withless than the minimum facilities of civil features or are under construction with no usable landing area.
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 0.1 Meter Limits: Highest point of a facility's usable landing area(s) or runway(s). Variance: N/A
		Range: -400...30000	

10040	AIRCRAFT FACILITY BEACON		THE VISUAL NAVIGATION AID EXHIBITING A CONSTANT ROTATING OR VARIED FLUCTUATING LIGHT, AND LOCATED WITHIN THE DEFINED LIMITS OF THE AIRCRAFT FACILITY (10030).
	COL CHARACTER OF LIGHT		Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position (i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR).

Fcode	Feature	Attributes/Values	Definition
1U040	AIRCRAFT FACILITY BEACON (Cont.)		
	COL CHARACTER OF LIGHT (Cont.)		
		000 - ANY DESCRIPTION - - - - - - - - -	
	DPS DISTANCE FROM SHORELINE		Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HDE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LFA LIGHT FUNCTION ATTRIBUTE		Type of light or lighting system used.
		010 - ROTATING BEACON - - - - - - - - -	A directional light rotating at a constant speed which produces the visual effect of flashes at regular intervals.
		026 - STROBE - - - - - - - - - - - - - -	An omnidirectional capacitor discharge device.
		035 - IDENTIFICATION BEACON - - - - - -	An illuminated obelisk of varied height which exhibits a 2 letter morse code group every 12 seconds at a speed equivalent to 6 - 8 words per minute.
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	

1U045	AIRCRAFT FACILITY REFERENCE POINT		THE FUNCTIONAL CENTER OF THE AIRCRAFT FACILITIES LANDING AREA(S) AND /OR RUNWAY(S) AS DETERMINED BY REFERENCE TO ADSOP C8321.1.
	RPD REFERENCE POINT DETERMINATION METHOD		The method used to derive the reference point (RP) of an airport using operational runways.

Fcode	Feature	Attributes/Values	Definition
1U045	AIRCRAFT FACILITY REFERENCE POINT (Cont.)		
	RPD	REFERENCE POINT DETERMINATION METHOD (Cont.)	
		001 - ONE RUNWAY (RWY) - - - - - - - - - -	RP is a point in the center of the runway equidistant from either end.
		002 - TWO PARALLEL OR NON-CONNECTING SEMI-PARALLEL RWY - - - - - - -	RP is the mid-point of a line connecting the center of the runways.
		003 - THREE OR MORE PARALLEL OR NON-CONNECTING SEMI-PARALLEL RWY - -	RP is the mid-point of a line connecting the mid-points of the lines connecting the centers of the runways.
		004 - RWY INTERSECTING AT A SINGLE POINT	RP is the point of intersection.
		005 - INTERSECTING RWY FORMING ONE OR MORE INTERIOR TRIANGLES - - - -	RP is the mean of all interior angle bisectors.
		006 - TWO RWY DIVERGING 90 DEGREES OR LESS - - - - - - - - - - - - - -	RP is a point on the angular bisector equidistant between arcs described from the vertex which pass through the center of the runways.
		007 - TWO RWY DIVERGING OVER 90 DEGREES	RP is a point at the vertex of the angle formed by the two runways.
		008 - WIDELY SEPARATED RWY - - - - - - -	RP is the centerpoint of a line connecting the nearest ends of the runways.

1U050	APPROACH LIGHTING		AN AIRPORT LIGHT SYSTEM WHICH PROVIDES VISUAL GUIDANCE TO AIRCRAFT ON THE FINAL APPROACH FOR LANDING.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		001 - 1 - - - - - - - - - - - - - - - -	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		003 - 3 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		001 - 1 - - - - - - - - - - - - - - - -	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.

Fcode	Feature	Attributes/Values	Definition
10050	APPROACH LIGHTING (Cont.)		
	GHE	GREATEST HORIZONTAL EXTENT (Cont.)	
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HDE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LFA	LIGHT FUNCTION ATTRIBUTE	Type of light or lighting system used.
		001 - ALSF-I - - - - - - - - - - - - - -	Approach Lighting System with sequenced flashing lights in ILS cat-1 configuration.
		002 - ALSF-II - - - - - - - - - - - - -	Approach Lighting System with sequenced flashing lights in ILS cat-2 configuration.
		003 - SSALF - - - - - - - - - - - - - -	Simplified short approach light system with sequenced flashing lights.
		004 - SSALR - - - - - - - - - - - - - -	Simplified short approach light system with runway alignment indicator lights.
		005 - RUNWAY END IDENTIFIER LIGHTS (REIL)	
		006 - OTHER - - - - - - - - - - - - - -	Other.
		007 - SEQUENCED STROBE - - - - - - - - -	
		008 - MALSF - - - - - - - - - - - - - -	Medium intensity approach light system with sequenced flashing lights.
		009 - MALSR - - - - - - - - - - - - - -	Medium intensity approach light system with runway alignment indicator lights.
		011 - LDIN - - - - - - - - - - - - - - -	Sequenced flashing lead-in lights.
		012 - RAIL - - - - - - - - - - - - - - -	Runway alignment indicator lights.
		013 - ODALS - - - - - - - - - - - - - -	Omnidirectional approach lighting system.
		032 - OLS - - - - - - - - - - - - - - -	Optical Landing System
		033 - VASI (2 BAR) - - - - - - - - - - -	Visual Approach Slope Indicator, 2 bar type
		034 - VASI (3 BAR) - - - - - - - - - - -	Visual Approach Slope Indicator, 3 bar type
	RIR	RUNWAY IDENTIFIER REFERENCE	Runway Ident for the runway for which this is an overrun.
		000 - CHAR: 3 A/N - - - - - - - - - - -	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
1U060	APRON /HARDSTAND		A DEFINED PAVED OR HARD-PACKED AREA AT AN AIRCRAFT FACILITY INTENDED FOR AIRCRAFT PARKING.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN	
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	
		009 - NOT USABLE	
		027 - CLOSED	
		028 - OPERATIONAL	
	FPT	FACILITY PRIORITY TYPE	Indicates the priority status of the facility.
		001 - MAJOR	Associated Runway (1U160) is >= 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		002 - MINOR (HARD)	Associated Runway (1U160) is < 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		003 - MINOR (SOFT)	Associated Runway (1U160) has a MCP of 014, 019, 023, 034, 035, 069, 103, 106, 107, 112.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		002 - ASPHALT	
		005 - BEDROCK	
		014 - CLAY	
		018 - CONCRETE	
		019 - CORAL	
		023 - EARTHEN	Graded or rolled earth either with or without grass.
		034 - GRASS	Unprepared earth with or without grass.
		035 - GRAVEL	
		048 - MASONRY	Stone or Brick, held together with mortar.
		069 - SAND	
		083 - STEEL	Pierced steel plank.
		102 - OTHER	
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	Concrete, asphalt, and /or bituminous-bound macadam.
		112 - LATERITE	
		113 - WATER	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)

Fcode	Feature	Attributes/Values	Definition
10060	APRON /HARDSTAND (Cont.)		
	RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	RST ROAD/RUNWAY SURFACE TYPE		Physical surface characteristics of feature.
		000 - UNKNOWN	
		005 - NATURAL	The feature's surface is not prepared and consists primarily of one of the following: coral, grass, gravel, laterite, sand, snow or ice, or water.
		006 - PERMANENT	The feature's surface is prepared and consists primarily of the following: asphalt, masonry (stone /brick), concrete, bedrock, or bitumen-bound.
		007 - TEMPORARY	The feature's surface is prepared and consists primarily of the following: clay, coral, earthen, gravel, laterite, macadam, membrane, non-bituminous binding mix-in-place, steel or aluminum plank, or sand.
	SCA SURFACE CONDITION ATTRIBUTE		Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WBC WEIGHT BEARING CAPACITY		The surface weight bearing capacity (WBC) for different landing gear configurations as determined by U.S. sources.
		000 - CHAR: 24 A/N	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1U120	LAUNCH PAD		A DESIGNATED PLATFORM OR AREA FROM WHICH A ROCKET OR MISSILE IS LAUNCHED.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal

Fcode	Feature	Attributes/Values	Definition
1U120	LAUNCH PAD (Cont.)		
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1U130	OVERRUN /STOPWAY		AN AREA BEYOND THE TAKE-OFF RUNWAY DESIGNATED AS ABLE TO SUPPORT AN AIRPLANE DURING AN ABORTED TAKE-OFF.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ADO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI	Visually significant or reflective from all sides.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	MCP MATERIAL COMPOSITION PRIMARY		Primary material composition of feature.
		000 - UNKNOWN	
		002 - ASPHALT	
		005 - BEDROCK	
		014 - CLAY	
		018 - CONCRETE	
		019 - CORAL	
		023 - EARTHEN	Graded or rolled earth either with or without grass.
		034 - GRASS	Unprepared earth with or without grass.
		035 - GRAVEL	
		048 - MASONRY	Stone or Brick, held together with mortar.
		069 - SAND	

Fcode	Feature	Attributes/Values	Definition
1U130	OVERRUN /STOPWAY (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		083 - STEEL	Pierced steel plank.
		102 - OTHER	
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	Concrete, asphalt, and /or bituminous-bound macadam.
		112 - LATERITE	
		113 - WATER	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	RST	ROAD/RUNWAY SURFACE TYPE	Physical surface characteristics of feature.
		005 - NATURAL	The feature's surface is not prepared and consists primarily of one of the following: coral, grass, gravel, laterite, sand, snow or ice, or water.
		006 - PERMANENT	The feature's surface is prepared and consists primarily of the following: asphalt, masonry (stone /brick), concrete, bedrock, or bitumen-bound.
		007 - TEMPORARY	The feature's surface is prepared and consists primarily of the following: clay, coral, earthen, gravel, laterite, macadam, membrane, non-bituminous binding mix-in-place, steel or aluminum plank, or sand.
	SCA	SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

1U150	REVETMENT		A BARRIER CONSTRUCTED TO PROTECT SOMETHING FROM DAMAGE DUE TO WIND, EXPLOSION, AND FLYING OBJECTS.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1U150	REVETMENT (Cont.)		
	1WD	DERIVED WIDTH (Cont.)	
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
1U160	RUNWAY		A DEFINED RECTANGULAR AREA ON LAND PREPARED FOR THE LANDING AND TAKE-OFF OF AIRCRAFT ALONG THE FEATURE'S LENGTH.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RFA=001).

Pcode	Feature	Attributes/Values	Definition
1U160	RUNWAY (Cont.)		
	DFS	DISTANCE FROM SHORELINE (Cont.)	
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0-Offshore or on shoreline, 9998-All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	EHI	EXTRACTED RUNWAY HIGH IDENT	Runway High Identifier.
		000 - CHAR: 4 A/N - - - - - - - - - - -	
	ELI	EXTRACTED RUNWAY LOW IDENT	Runway Low Identifier.
		000 - CHAR: 4 A/N - - - - - - - - - - -	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		005 - UNDER CONSTRUCTION - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	
		007 - DESTROYED - - - - - - - - - - - -	
		009 - NOT USABLE - - - - - - - - - - - -	Feature is visible from the air but is not usable for the landing and take-off of normal fixed-wing aircraft due to runways or landing areas being overgrown or deteriorated.
		027 - CLOSED - - - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	FHH	TRUE FEATURE HEADING (HIGH END)	The eastern half of the feature centerline alignment measured clockwise from true north.
			Increment: 0.1 Degree Limits: N/A Variance: N/A
		Range: 180.1...360.0	
	FHL	TRUE FEATURE HEADING (LOW END)	The western half of the feature centerline alignment measured clockwise from true north.
			Increment: 0.1 Degree Limits: N/A Variance: N/A
		Range: 0.1...180.0	
	FPT	FACILITY PRIORITY TYPE	Indicates the priority status of the facility.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - MAJOR - - - - - - - - - - - - - -	Associated Runway (1U160) is >= 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		002 - MINOR (HARD) - - - - - - - - - - -	Associated Runway (1U160) is < 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
		003 - MINOR (SOFT) - - - - - - - - - - -	Associated Runway (1U160) has a MCP of 014, 019, 023, 034, 035, 069, 103, 106, 107, 112.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LRN	LENGTH OF RUNWAY	The measurement of the longer of two linear axes of the runway, not to include the overruns.

Fcode	Feature	Attributes/Values	Definition
1U160	RUNWAY (Cont.)		
	LRW LENGTH OF RUNWAY (Cont.)		Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	MCP MATERIAL COMPOSITION PRIMARY		Primary material composition of feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - ASPHALT - - - - - - - - - - - - -	
		005 - BEDROCK - - - - - - - - - - - - -	
		008 - BRICK - - - - - - - - - - - - - -	
		014 - CLAY - - - - - - - - - - - - - - -	
		018 - CONCRETE - - - - - - - - - - - - -	
		019 - CORAL - - - - - - - - - - - - - -	
		033 - EARTHEN - - - - - - - - - - - - -	Graded or rolled earth either with or without grass.
		034 - GRASS - - - - - - - - - - - - - -	Unprepared earth with or without grass.
		035 - GRAVEL - - - - - - - - - - - - - -	
		048 - MASONRY - - - - - - - - - - - - -	Stone or Brick, held together with mortar.
		069 - SAND - - - - - - - - - - - - - - -	
		083 - STEEL - - - - - - - - - - - - - -	Pierced steel plank.
		102 - OTHER - - - - - - - - - - - - - -	
		103 - BITUMINOUS - - - - - - - - - - - -	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL - - - - - - - - - - - -	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL - - - - - - - - - - - -	
		106 - SNOW - - - - - - - - - - - - - -	
		107 - ICE - - - - - - - - - - - - - - -	
		108 - MACADAM - - - - - - - - - - - - -	
		109 - MEMBRANE - - - - - - - - - - - - -	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION - - - - - - - - - - -	Concrete, asphalt, and /or bituminous-bound macadam.
		112 - LATERITE - - - - - - - - - - - - -	
		113 - WATER - - - - - - - - - - - - - -	
		114 - ALUMINUM - - - - - - - - - - - - -	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE - - - - - - -	
	MDU MAXIMUM DEMONSTRATED USAGE		The heaviest observed aircraft utilizing the runway.
		000 - CHAR: 24 A/N - - - - - - - - - - -	
	RAH RUNWAY HIGH END APPROACH LIGHTS		The availability of approach lights on the high end of the runway.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RAL RUNWAY LOW END APPROACH LIGHTS		The availability of approach lights on the low end of the runway.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RCL RUNWAY CENTERLINE LIGHTS		The availability of runway centerline lights.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RFL RUNWAY FLOOD LIGHTS		The availability of runway flood lights.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RHI RUNWAY HIGH END IDENTIFIER LIGHTS		The availability of identifier lights at the high end of the runway.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RLI RUNWAY LOW END IDENTIFIER LIGHTS		The availability of identifier lights at the low end of the runway.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - - -	
	RPP RUNWAY PATTERN FORMATION		An indication of the presence of single or multiple runways

Pcode	Feature	Attributes/Values	Definition
1U160	RUNWAY (Cont.)		
	RPF	RUNWAY PATTERN FORMATION (Cont.)	
		000 - UNKNOWN TO INCLUDE CLASSIFIED RUNWAYS	
		001 - SINGLE RUNWAY PATTERN	
		002 - MULTIPLE RUNWAY PATTERN	
	RRK	RUNWAY REMARKS	Remarks on the runway clearway, to include: percent grooved, construction, operations, etc.
		000 - CHAR: 1080 A/N	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	RSL	RUNWAY STRIP LIGHTS	The availability of Runway Strip lights.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	RST	ROAD/RUNWAY SURFACE TYPE	Physical surface characteristics of feature.
		000 - UNKNOWN	
		005 - NATURAL	The feature's surface is not prepared and consists primarily of one of the following: coral, grass, gravel, laterite, sand, snow or ice, or water.
		006 - PERMANENT	The feature's surface is prepared and consists primarily of the following: asphalt, masonry (stone /brick), concrete, bedrock, or bitumen-bound.
		007 - TEMPORARY	The feature's surface is prepared and consists primarily of the following: clay, coral, earthen, gravel, laterite, macadam, membrane, non-bituminous binding mix-in-place, steel or aluminum plank, or sand.
	SCA	SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	TSH	RUNWAY HIGH END THRESHOLD LIGHTS	The availability of threshold lights at the high end of the runway.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	TSL	RUNWAY LOW END THRESHOLD LIGHTS	The availability of Threshold lights at the low end of the runway.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	VPH	RUNWAY HIGH END PAPI LIGHTS	The availability of Precision Approach Path Indicator (PAPI) lights at the high end of the runway.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	VPL	RUNWAY LOW END PAPI LIGHTS	The availability of Precision Approach Path Indicator (PAPI) lights at the low end of the runway.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	VSH	RUNWAY HIGH END VASI LIGHTS	The availability of Visual Approach Slope Indicator (VASI) lights of the high end of the runway.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	VSL	RUNWAY LOW END VASI LIGHTS	The availability of Visual Approach Slope Indicator (VASI) lights at the low end of the runway.

Fcode	Feature	Attributes/Values	Definition
10160	RUNWAY (Cont.)		
	VSL RUNWAY LOW END VASI LIGHTS (Cont.)		
		000 - UNKNOWN 001 - AVAILABLE 002 - NOT AVAILABLE	
	WID WIDTH	Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
	ZVL Z VALUE	Range: -400...30000	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
10190	SEAPLANE LANDING OR TAKE-OFF AREA		A DESIGNATED PORTION OF WATER FOR THE LANDING OR TAKE-OFF OF A SEAPLANE.
	EXS EXISTENCE CATEGORY	009 - NOT USABLE 027 - CLOSED 028 - OPERATIONAL	The state or condition of the feature.
	LEN LENGTH /DIAMETER	Range: > 0...No Upper Limit	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	WID WIDTH	Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
	ZVL Z VALUE	Range: -400...30000	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From mean sea level to the tallest portion of the feature. Variance: N/A
10200	TAXIWAY		A PREPARED SURFACE PROVIDING ACCESS TO /FROM RUNWAYS AND THE AIRCRAFT PARKING AREA, TERMINAL AREA, OR SERVICE AREA.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
1U200	TAXIWAY (Cont.)		
	1HT	DERIVED HEIGHT (Cont.)	
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - OMNI - - - - - - - - - - - - - - -	Visually significant or reflective from all sides.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		005 - UNDER CONSTRUCTION - - - - - - - -	
		006 - ABANDONED - - - - - - - - - - - -	
		009 - NOT USABLE - - - - - - - - - - - -	Feature is visible from the air but is not usable for the landing and take-off of normal fixed-wing aircraft due to runways or landing areas being overgrown or deteriorated.
		027 - CLOSED - - - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - ASPHALT - - - - - - - - - - - - -	
		005 - BEDROCK - - - - - - - - - - - - -	
		008 - BRICK - - - - - - - - - - - - - -	
		014 - CLAY - - - - - - - - - - - - - - -	
		018 - CONCRETE - - - - - - - - - - - - -	
		019 - CORAL - - - - - - - - - - - - - -	
		023 - EARTHEN - - - - - - - - - - - - -	Graded or rolled earth either with or without grass.
		034 - GRASS - - - - - - - - - - - - - -	Unprepared earth with or without grass.
		035 - GRAVEL - - - - - - - - - - - - - -	
		048 - MASONRY - - - - - - - - - - - - -	Stone or Brick, held together with mortar.
		069 - SAND - - - - - - - - - - - - - - -	
		083 - STEEL - - - - - - - - - - - - - -	Pierced steel plank.
		102 - OTHER - - - - - - - - - - - - - -	
		103 - BITUMINOUS - - - - - - - - - - - -	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL - - - - - - - - - - -	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
1U200	TAXIWAY (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	Concrete, asphalt, and /or bituminous-bound macadam.
		112 - LATERITE	
		113 - WATER	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	SCA	SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	TLA	TAXIWAY LIGHTING AVAILABILITY	Availability of taxiway lights.
		000 - UNKNOWN	
		001 - AVAILABLE	
		002 - NOT AVAILABLE	
	TXP	TAXIWAY TYPE	The type of like taxiways at the air facility.
		000 - UNKNOWN	
		004 - DISPERSAL	A Dispersal taxiway may lead off a runway, taxiway, apron, or lead to another dispersed runway and parking areas, bunkers or hardstands.
		005 - LINK	A Link taxiway links a runway with a parallel taxiway, one taxiway with another, or a runway directly with an apron.
		006 - LOOP	A loop taxiway may lead off either end of a runway or another taxiway to a dispersal or other parking area and return to its point of origin.
		007 - PARALLEL	A taxiway that lays parallel to a runway and usually has intermediate linking taxiways to the runway and aprons.
		008 - PERIMETER	A Perimeter taxiway may travel the whole or half of the perimeter of an airport.
	TXR	TAXIWAY REMARKS	Remarks concerning the taxiway.
		000 - CHAR: 1080 A/N	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		074 - PARALLEL TAXIWAY	
		075 - LOOP TAXIWAY	
		076 - PERIMETER TAXIWAY	
		077 - DISPERSAL TAXIWAY	
		078 - LINK TAXIWAY	
		079 - HIGH SPEED TAXIWAY	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2A010	COASTAL SHORELINE		THE LINE WHERE A LAND MASS, INCLUDING ISLAND (4B135), IS IN CONTACT WITH A BODY OF OPEN WATER (IE. OCEAN, SEA, ETC.), AT MEAN HIGH WATER.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
	SLT	SHORELINE TYPE CATEGORY	The physical characteristic of the shoreline area.
		006 - MANGROVE /NIPA	
		008 - MARSH, SWAMP	
		010 - ROCKY	
		011 - RUBBLE	
		013 - SANDY	
		014 - STONY, SHINGLY	
		015 - OTHER	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		007 - MEAN HIGH WATER	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS	
		010 - MEAN HIGHER HIGH WATER	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		024 - MEAN HIGHER HIGH WATER SPRINGS	
		026 - HIGHEST NORMAL HIGH WATER	
		028 - HIGHEST HIGH WATER	
		030 - INDIAN SPRING HIGH WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	

2A020	FORESHORE		THAT PART OF THE SHORE OR BEACH WHICH LIES BETWEEN THE LOW WATER MARK /LINEAND THE UPPER LIMITS OF NORMAL WAVE ACTION. THE SAME CONDITION MAY EXIST IN NON-CONTIGUOUS OFF-SHORE AREAS.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE	
		008 - AT SHORELINE	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		006 - BOULDERS	
		014 - CLAY	
		035 - GRAVEL	
		052 - MUD	
		066 - ROCK	Exposed bedrock.
		069 - SAND	
		075 - SHINGLES	

Fcode	Feature	Attributes/Values	Definition
2A020	FORESHORE (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		086 - STONE	
	MCS	MATERIAL COMPOSITION SECONDARY	Secondary material composition of feature.
		000 - UNKNOWN 035 - GRAVEL 052 - MUD 069 - SAND 075 - SHINGLES 086 - STONE	
	WID	WIDTH Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
2A040	OPEN WATER (EXCEPT INLAND)		A LARGE BODY OF WATER (AN OCEAN OR EXTENSION OF THE OCEAN), SEAWARD OF THE COASTAL SHORELINE (2A010), AND SEAWARD OF ANY INLAND BODY OF WATER.
	1HT	DERIVED HEIGHT 000 - 0	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
	1WD	DERIVED WIDTH Range: 0...127	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	ARA	AREA COVERAGE ATTRIBUTE Range: > 0...No Upper Limit	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	HGT	HEIGHT ABOVE SURFACE LEVEL Range: 0...No Upper Limit	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
	HSA	HYDROGRAPHIC SEASONAL ATTRIBUTE	Restriction due to climate.
		000 - UNKNOWN 001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE 002 - SUBJECT TO ICE	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2A040	OPEN WATER (EXCEPT INLAND) (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	SEA SEA STATE		A property of large bodies of water characterized by tidal conditions, swells, or high heavy wave action. The condition can apply to both fresh and salt water.
		001 - NON-SEA STATE - - - - - - - - - -	
		002 - SEA STATE - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2B010	ANCHORAGE		A DESIGNATED AREA OF WATER WHERE VESSELS MAY ANCHOR.
	ANC ANCHORAGE TYPE CATEGORY		Type of vessel anchorage.
		001 - ANCHORING BERTHS - - - - - - - - -	
		002 - EXPLOSIVE - - - - - - - - - - - -	
		007 - QUARANTINED - - - - - - - - - - -	
		008 - RESERVED - - - - - - - - - - - - -	
		009 - SEAPLANE - - - - - - - - - - - - -	
		012 - DEEPWATER /DEEP DRAFT - - - - - - -	
		013 - GENERAL - - - - - - - - - - - - -	Anchorage available for all types and sizes of vessels.
		014 - TANKER - - - - - - - - - - - - -	
		015 - TIME LIMITED - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN - - - - - -	
		002 - LIMITS AND INFO UNKNOWN - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	TIM TIME ATTRIBUTE		The time, expressed in hours of duration, for which an activity is permitted .
		000 - ANY NUMBER OF HOURS - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2B010	ANCHORAGE (Cont.)		
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2B020	BERTH		A DESIGNATED LOCATION WHERE A SHIP LIES WHEN MOORED TO A PIER OR WHARF.
	BER BERTH IDENTIFIER		The designated number or letter used to identify this feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	USE USE STATUS		Identifies the primary user, function, or controlling authority.
		000 - UNKNOWN - - - - - - - - - - - - - - 010 - OTHER - - - - - - - - - - - - - - - 088 - ROLL-ON ROLL-OFF BERTH (RORO) - -	
2B040	BREAKWATER		A MAN-MADE STRUCTURE, OFTEN MASSIVE, WHICH PROTECTS A PORT AREA, ANCHORAGE, HARBOR, OR BEACH FROM FORCES OF WAVES AND CURRENTS.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2B040	BREAKWATER (Cont.)		
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/ concrete and < 40% metal
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		004 - BELOW SURFACE /SUBMERGED - - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
2B050	CALLING-IN POINT		A SPECIFIED POINT SOME DISTANCE FROM THE HARBOR AT WHICH A VESSEL NAVIGATORNOTIFIES THE HARBOR AUTHORITY OF HIS SHIP'S POSITION.
	DF1	DIRECTION OF TRAFFIC - 1	Direction of traffic, first occurrence.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	DF2	DIRECTION OF TRAFFIC - 2	Direction of traffic, second occurrence.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	DF3	DIRECTION OF TRAFFIC - 3	Direction of traffic, third occurrence.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	DF4	DIRECTION OF TRAFFIC - 4	Direction of traffic, fourth occurrence.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2B080	DOLPHIN		A POST OR GROUP OF POSTS LOCATED IN THE WATER FOR MOORING OR WARPING A SHIP, OR TO PROTECT A PIER/WHARF.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true north (0 dg) clockwise to the direction parallel to the centerline of a vessel moored to the feature. Variance: For single dolphins to which a vessel may secure in any direction, 0 shall be recorded.
		Range: 0...89	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER - - - - - - - - - - - - - - -	
		087 - COMPASS ADJUSTMENT - - - - - - - - -	
2B090	DRYDOCK		A STRUCTURE, PROVIDING SUPPORT FOR A VESSEL, WHICH HAS A MEANS OF REMOVING WATER SO THAT THE BOTTOM OF THE VESSEL CAN BE EXPOSED.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: -511...0	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
2B090	DRYDOCK (Cont.)		
	IWD DERIVED WIDTH (Cont.)		
			Increment: 1 Limits: N/A Variance: N/A
		Range: 0...127	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DEP DEPTH BELOW SURFACE LEVEL		Distance measured from the highest point at surface level to the lowest point of the feature.
			Increment: 0.5 Meter Limits: Interior of feature measured from top to bottom. Variance: N/A
		Range: 0...No Upper Limit	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS DENSITY MEASURE (STRUCTURE COUNT)		The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT DENSITY MEASURE (% TREE /CANOPY COVER)		Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - -	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		005 - FLOATING - - - - - - - - - - - - - - 007 - NON-FLOATING - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2B090	DRYDOCK (Cont.)		
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
	000 - ANY IDENTIFIER - - - - - - - - - -		
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
	001 - METAL - - - - - - - - - - - - - - -		>= 75% metal
	002 - PART METAL - - - - - - - - - - - -		>= 40% to < 75% metal
	003 - STONE/BRICK - - - - - - - - - - -		>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	004 - COMPOSITION - - - - - - - - - - -		Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
	Range: > 0...No Upper Limit		
2B100	FISHERY /FISH STAKES		POLES OR STAKES PLACED IN SHALLOW WATER TO OUTLINE FISHING AREAS OR TO HANGNETS TO CATCH FISH.
2B105	FISHING HARBOR		A HARBOR THAT IS PRIMARILY UTILIZED BY FISHING VESSELS.
2B110	FISH TRAP /FISH WEIR		A FENCE OR ENCLOSURE SET IN A WATERWAY AND USED FOR CATCHING FISH.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	Range: > 0...No Upper Limit		
2B115	GRIDIRON		A FLAT FRAME, USUALLY OF PARALLEL TIMBER BAULKS, ERECTED ON THE FORESHORE SO THAT A VESSEL MAY DRY OUT ON IT FOR PAINTING OR REPAIR AT LOW WATER.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2B115	GRIDIRON (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2B140	JETTY		A MAN-MADE BARRIER BUILT OUT INTO THE WATER TO RESTRAIN OR DIRECT CURRENTS AND WAVES, AND TO PROTECT THE SHORE FROM EROSION OR PREVENT CHANNELS AND HARBOR ENTRANCES FROM SILTING UP.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		003 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	VRC VERTICAL REFERENCE CATEGORY		Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		004 - BELOW SURFACE /SUBMERGED - - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
2B140	JETTY (Cont.)		
	WID	WIDTH (Cont.)	
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2B150 LANDING PLACE

A PLACE ALONG THE SHORE USED FOR LOADING AND UNLOADING PASSENGERS OR CARGO FROM SMALL BOATS.

COD CERTAINTY OF DELINEATION ..... Indicates knowledge of the feature's limits or information.

001 - LIMITS AND INFO KNOWN - - - - - -
002 - LIMITS AND INFO UNKNOWN - - - - - -

HOC HYDROGRAPHIC ORIGIN CATEGORY ..... Origin of the feature.

004 - MAN-MADE - - - - - - - - - - - - -
005 - NATURAL - - - - - - - - - - - - -

LEN LENGTH /DIAMETER ..... A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Increment: 1 Meter
Limits: Measured against the longest axis of a Best Fitting Rectangle.
Variance: N/A

Range: > 0...No Upper Limit

2B155 MARITIME STATION

AN OFFICE OR PLACE OCCUPIED BY A GOVERNMENTAL (MARITIME RELATED) OR HARBOR AUTHORITY. A SIGNAL STATION IS A BUILDING, TOWER, MAST, ETC. WHICH CONVEYS INFORMATION VISUALLY OR AUDIBLY FROM STATION TO SHIP.

SST SOUND SIGNAL TYPE ..... The type of audible fog signal.

000 - UNKNOWN - - - - - - - - - - - - -
001 - BELL (BELL) - - - - - - - - - - - -
002 - WHISTLE (WHIS) - - - - - - - - - - -
003 - HORN (HORN) - - - - - - - - - - - -
004 - GONG (GONG) - - - - - - - - - - - -
005 - DIAPHONE (DIA) - - - - - - - - - - -
006 - SIREN (SIREN) - - - - - - - - - - -
007 - REED (REED) - - - - - - - - - - - -
008 - EXPLOSIVE (EXPLOS) - - - - - - - - -
016 - NONE - - - - - - - - - - - - - - -

STN MARITIME STATION TYPE ..... The type of maritime station.

001 - COAST GUARD - - - - - - - - - - -
002 - FIREBOAT - - - - - - - - - - - - -
003 - MARINE POLICE - - - - - - - - - - -
004 - RESCUE - - - - - - - - - - - - - -
005 - PILOT (ON LAND) - - - - - - - - - -
006 - PORT CONTROL - - - - - - - - - - -
007 - SIGNAL (UNSPECIFIED) - - - - - - - -
008 - ICE SIGNAL - - - - - - - - - - - -
009 - STORM SIGNAL - - - - - - - - - - -
010 - WEATHER SIGNAL - - - - - - - - - -
011 - TIDAL CURRENT SIGNAL - - - - - - - -
012 - TIDE SIGNAL - - - - - - - - - - -
013 - TIME SIGNAL - - - - - - - - - - -
014 - MARINE TRAFFIC SIGNAL - - - - - - -
015 - BRIDGE SIGNAL - - - - - - - - - -
016 - LOCK SIGNAL - - - - - - - - - - -

Fcode	Feature	Attributes/Values	Definition
2B155	MARITIME STATION (Cont.)		
	STN MARITIME STATION TYPE (Cont.)		
		017 - FOG SIGNAL	
		018 - INTERNATIONAL PORT SIGNALS	
		019 - FIRING PRACTICE SIGNAL STATION	
		020 - RADAR SURVEILLANCE STATION	
		021 - PILOT LOOKOUT STATION	
2B170	OFFSHORE LOADING FACILITY		A FACILITY LOCATED OFFSHORE FOR LOADING AND UNLOADING CARGO.
	1AO DERIVED ANGLE OF ORIENTATION CODE	Default: 63 Range: 0...31	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). *If AOO = 360, then 1AO = 63.* Increment: Limits: N/A Variance: N/A
	1DR DERIVED DENSITY OF ROOF COVER CODE		(DA) Coded value indicating percent of Roof Cover within area of feature.
		002 - 2	DRS > 679
		003 - 3	DRS > 105 and <= 679
		008 - 8	DRS > 1 and <= 105
		010 - 10	DRS = 1
	1DS DERIVED DENSITY OF STRUCTURES CODE		(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	DRS = 1
		001 - 1	DRS > 1 and <= 105
		002 - 2	DRS > 105 and <= 252
		003 - 3	DRS > 252 and <= 544
		004 - 4	DRS > 544 and <= 679
		005 - 5	DRS > 679 and <= 825
		006 - 6	DRS > 825 and <= 971
		007 - 7	DRS > 971 and <= 1114
		008 - 8	DRS > 1114 and <=1262
		009 - 9	DRS > 1262 and <= 1408
		010 - 10	DRS > 1408 and <= 1554
		011 - 11	DRS > 1554 and <= 1700
		012 - 12	DRS > 1700 and <= 1845
		013 - 13	DRS > 1845
	1DT DERIVED DENSITY OF TREE COVER CODE		(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0	DRT = 0
		001 - 1	DRT >= 1 and <= 29
		003 - 3	DRT >= 30
	1LN DERIVED LENGTH	Range: 0...127	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1PH DERIVED PREDOMINANT HEIGHT	Range: 0...511	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1WD DERIVED WIDTH	Range: 0...127	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A

Fcode	Feature	Attributes/Values	Definition
2B170	OFFSHORE LOADING FACILITY (Cont.)		
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	CHA	LIGHT CHARACTERISTIC CATEGORY	The sequence, grouping, and distinctive character of a light.
		021 - LIGHTED - - - - - - - - - - - -	
		023 - UNLIGHTED - - - - - - - - - - -	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER - - - - - - - - - - - - - -	
		081 - SINGLE POINT MOORING - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
2B170	OFFSHORE LOADING FACILITY (Cont.)		
	WID WIDTH (Cont.)		
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2B180	OYSTER OR CULTIVATED SHELLFISH BED		A PLACE IN SHALLOW WATER USED FOR THE BREEDING AND CULTIVATION OF SHELLFISH.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2B190	PIER, WHARF		BERTHING STRUCTURES FOR VESSELS, OR DECKS OVER WATER FOR RECREATION PURPOSES: PIER OR MOLE: LONG NARROW STRUCTURE EXTENDING INTO THE WATER; WHARF OR QUAY: APPROXIMATELY PARALLEL TO THE SHORE AND ACCOMMODATES SHIPS ON ONE SIDE.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2B190	PIER, WHARF (Cont.)		
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		005 - FLOATING - - - - - - - - - - - - -	
		007 - NON-FLOATING - - - - - - - - - - -	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PUC PIER USE CATEGORY		The primary use of the pier.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - DECKED BERTHING STRUCTURE FOR VESSELS - - - - - - - - - - -	
		002 - RECREATIONAL - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2B220	RAMP		A PARTIALLY SUBMERGED HARD SURFACED AREA ON A SHORELINE FOR LAUNCHING AND RETRIEVING VESSELS OR VEHICLES.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	VRC VERTICAL REFERENCE CATEGORY		Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		004 - BELOW SURFACE /SUBMERGED - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2B220	RAMP (Cont.)		
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2B225	RIPRAP		A LAYER OF BROKEN ROCK, COBBLES, BOULDERS, TETRAPODS, OR OTHER SIMILAR MATERIAL USED TO PROTECT BREAKWATERS, JETTYS, SEAWALLS, AND OTHER SIMILAR STRUCTURES FROM WAVE ACTION OR ICE DAMAGE.
	VRC VERTICAL REFERENCE CATEGORY		Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - - - 004 - BELOW SURFACE /SUBMERGED - - - - - - 008 - COVERS AND UNCOVERS - - - - - - -	
2B230	SEAWALL		A STRUCTURE BUILT TO PROTECT THE SHORE FROM EROSION.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2B230	SEAWALL (Cont.)		
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
2B240	SLIPWAY		AN INCLINED FACILITY FOR LAUNCHING NEWLY CONSTRUCTED VESSELS.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		004 - BELOW SURFACE /SUBMERGED - - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - -	
2C010	BUOY		A BUOYANT MARINE NAVIGATIONAL AID.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.

Pcode	Feature	Attributes/Values	Definition
2C010	BUOY (Cont.)		
	A00 ANGLE OF ORIENTATION (Cont.)		Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	BF1 BROADCAST FREQUENCY (1)		The frequency in kilohertz (kHz) on which a station broadcasts (first occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	BF2 BROADCAST FREQUENCY (2)		The frequency in kilohertz (kHz) on which a station broadcasts (second occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	BR1 BEACON RANGE (1)		The maximum distance at which the associated RA1 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	BR2 BEACON RANGE (2)		The maximum distance at which the associated RA2 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	CCF COLOR CODE OF FEATURE		The color of the feature.
		000 - UNKNOWN 001 - RED (R) 002 - RED & WHITE (RW) 003 - RED & GREEN (RG) 004 - RED & BLACK (RB) 005 - RED-GREEN-RED (RGR) 006 - GREEN (G) 007 - GREEN & WHITE (GW) 008 - GREEN & RED (GR) 009 - GREEN & BLACK (GB) 010 - GREEN-RED-GREEN (GRG) 011 - GREEN-YELLOW-BLACK (GYB) 012 - YELLOW (Y) 013 - YELLOW & BLACK (YB) 014 - YELLOW-BLACK-YELLOW (YBY) 015 - YELLOW & RED (YR) 016 - YELLOW & GREEN (YG) 017 - YELLOW-RED-WHITE (YRW) 018 - BLACK (B) 019 - BLACK & YELLOW (BY) 020 - BLACK-YELLOW-BLACK (BYB) 021 - BLACK-RED-BLACK (BRB) 022 - BLACK & WHITE (BW) 023 - BLACK & RED (BR) 024 - BLACK & GREEN (BG) 025 - WHITE (W) 026 - WHITE & RED (WR) 027 - WHITE & ORANGE (W OR) 028 - WHITE & GREEN (WG) 029 - WHITE & BLACK (WB) 030 - WHITE & YELLOW (WY) 031 - WHITE-RED-GREEN (WRG) 032 - WHITE-GREEN-WHITE (WGW) 033 - ORANGE (OR) 034 - BLUE (BU)	

Fcode	Feature	Attributes/Values	Definition
2C010	BUOY (Cont.)		
	CCF	COLOR CODE OF FEATURE (Cont.)	
		035 - GRAY (GY)	
		036 - VIOLET (VI)	
		037 - BROWN (BR)	
	CHA	LIGHT CHARACTERISTIC CATEGORY	The sequence, grouping, and distinctive character of a light.
		021 - LIGHTED	
		023 - UNLIGHTED	
	COL	CHARACTER OF LIGHT	Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position [i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR].
		000 - ANY DESCRIPTION	
	EDL	ELEVATION OF LIGHT	The elevation of a light.
			Increment: 1 Meter Limits: Measured from mean sea level to the focal plane of the light. Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point of the base (downhill side) to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LVR	LIGHT VISIBILITY RANGE	The maximum distance at which a light can be seen at night in clear weather.
			Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	MLR	MULTIPLE LIGHT RANGES	A set of two numbers, light ranges at a light expressed in nautical miles, in separated by a slash (/) if only two visibilities exist, or by a dash (-) separating the greatest and least visibilities if 3 or more exist. Not applicable if light has only one range.
		000 - ANY SET	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PER	PERIOD OF LIGHT	The amount of time until a light repeats its sequence.
			Increment: 0.1 Second Limits: Measured until a light repeats its characteristic flashing or occulting sequence. Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	RA1	RADIO AID (1)	The type of radio navigational aid employed (First occurrence).
		000 - UNKNOWN	
		010 - RACON (RACON)	
		017 - CIRCULAR RADIOBEACON (RC)	
		047 - RAMARK (RAMARK)	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN)	

Fcode	Feature	Attributes/Values	Definition
2C010	BUOY (Cont.)		
	RA1	RADIO AID (1) (Cont.)	
		050 - NONE	
	RA2	RADIO AID (2)	The type of radio navigational aid employed (Second occurrence).
		000 - UNKNOWN	
		010 - RACON (RACON)	
		017 - CIRCULAR RADIOBEACON (RC)	
		047 - RAMARK (RAMARK)	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN)	
		050 - NONE	
	REF	RADAR REFLECTOR ATTRIBUTE	Indicates whether or not a radar reflector is attached to, or connected with, a feature.
		001 - RADAR REFLECTOR PRESENT	
		002 - RADAR REFLECTOR ABSENT	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		000 - UNKNOWN	
		079 - OTHER	
		080 - PILLAR BUOY (OPEN)	
		081 - PILLAR BUOY (FILLED)	
		082 - PILLAR BUOY (VERTICAL STRIPES)	
		083 - SPAR BUOY	
		084 - CAN BUOY (OPEN)	
		085 - CAN BUOY (FILLED)	
		086 - CONE BUOY (OPEN)	
		087 - CONE BUOY (FILLED)	
		088 - SPHERICAL BUOY (VERTICAL STRIPES)	
		089 - SPHERICAL BUOY	
		090 - SUPERBUOY (ODAS)	
		091 - SUPERBUOY (LANBY)	
		092 - SUPERBUOY (TANKER)	
		093 - LIGHTSHIP	
		094 - LIGHTFLOAT (OPEN)	
		095 - BARREL /TONNE BUOY	
		096 - MOORING BUOY	
		097 - DIAMOND-SHAPED BUOY	
		098 - ARTICULATED LIGHT	
		102 - LIGHTFLOAT (FILLED)	
	SST	SOUND SIGNAL TYPE	The type of audible fog signal.
		000 - UNKNOWN	
		001 - BELL (BELL)	
		002 - WHISTLE (WHIS)	
		003 - HORN (HORN)	
		004 - GONG (GONG)	
		005 - DIAPHONE (DIA)	
		006 - SIREN (SIREN)	
		007 - REED (REED)	
		008 - EXPLOSIVE (EXPLOS)	
		016 - NONE	
	TMC	TOPMARK CATEGORY	The type of mark atop a feature. Topmarks are symbols which convey significant information about surrounding waters or features.
		000 - UNKNOWN	
		001 - CAN (OPEN)	
		002 - CONE, POINT UP (OPEN)	
		003 - CAN (FILLED)	
		004 - CONE, POINT UP (FILLED)	
		005 - "X"	
		006 - BALL (OPEN)	
		007 - DOUBLE BALL (FILLED)	
		008 - DOUBLE CONE, POINTS UPWARD (FILLED)	
		009 - DOUBLE CONE, POINTS APART (FILLED)	
		010 - DOUBLE CONE, POINTS DOWNWARD (FILLED)	
		011 - DOUBLE CONE, POINTS TOGETHER (FILLED)	
		012 - DIAMOND (OPEN)	
		013 - DIAMOND (FILLED)	

Fcode	Feature	Attributes/Values	Definition
2C010	BUOY (Cont.)		
	TMC	TOPMARK CATEGORY (Cont.)	
		014 - CONE, POINT UP, OVER BALL (OPEN)	
		015 - CONE, POINT UP, OVER BALL (FILLED)	
		016 - BALL OVER CONE, POINT UP (OPEN)	
		017 - BALL OVER CONE, POINT UP (FILLED)	
		018 - CROSS	
		019 - BALL (FILLED)	
		020 - BROOM	
		021 - "T"	
		022 - CAN OVER BALL (OPEN)	
		023 - CROSS OVER BALL (OPEN)	
		024 - DIAMOND OVER BALL (FILLED)	
		025 - DOUBLE BALL (OPEN)	
		026 - CONE, POINT DOWNWARD (OPEN)	
		027 - DOUBLE CONE, POINTS APART (OPEN)	
		099 - NONE	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2C020	CLEARING LINE		A STRAIGHT LINE, ON A CHART, MARKED BY ONE OR MORE OBJECTS (USUALLY TWO IN A LINE), WHOSE PURPOSE IS TO MARK AN AREA, BOUNDARY, DANGER, OR SOMETHING OTHER THAN A TRACK OR COURSE TO BE FOLLOWED.
	BRG	BEARING OF OBJECT	The bearing of an object from an observer (on any point along the line) towards the object or feature, expressed in degrees and tenths (i.e. 003.0 degrees).
		000 - ANY BEARING	
	COL	CHARACTER OF LIGHT	Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position [i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR].
		000 - ANY DESCRIPTION	
	DRP	DESCRIPTION OF REFERENCE POINT	Description of the feature(s) which form a Leading Line or Clearing Line.
		000 - ANY DESCRIPTION	
	LAF	LINE ASSOCIATED FEATURES	The type and /or number of features associated with a Leading or Clearing Line.
		001 - ONE OBJECT (OTHER THAN A DIRECTIONAL LIGHT)	
		002 - DIRECTIONAL LIGHT	
		003 - TWO OR MORE LIGHTS	
		004 - TWO OR MORE BEACONS	
		005 - TWO OR MORE OBJECTS (OTHER THAN TWO LIGHTS OR TWO BEACONS)	
		006 - MEASURED DISTANCE MARKERS	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2C030	ELECTRONIC BEACON		AN ELECTRONIC MARINE RADIO NAVIGATIONAL AID.
	BF1	BROADCAST FREQUENCY (1)	The frequency in kilohertz (kHz) on which a station broadcasts (first occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...998.9	
	BF2	BROADCAST FREQUENCY (2)	The frequency in kilohertz (kHz) on which a station broadcasts (second occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...998.9	
	BR1	BEACON RANGE (1)	The maximum distance at which the associated RA1 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 1...998	
	BR2	BEACON RANGE (2)	The maximum distance at which the associated RA2 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 1...998	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RA1	RADIO AID (1)	The type of radio navigational aid employed (First occurrence).
		000 - UNKNOWN - - - - - - - - - - - - - -	
		004 - RADIO DIRECTION FINDING STATION (RG) - - - - - - - - - - - - - - -	
		005 - DIRECTIONAL RADIOBEACON (RD) - - -	
		010 - RACON (RACON) - - - - - - - - - -	
		014 - ROTATING RADIOBEACON (RW) - - - -	
		017 - CIRCULAR RADIOBEACON (RC) - - - -	
		045 - QTG STATION (R) - - - - - - - - - -	
		046 - COAST RADAR STATION (RA) - - - - -	
		047 - RAMARK (RAMARK) - - - - - - - - -	
		048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) - - - - -	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN) -	
		051 - CONSOL - - - - - - - - - - - - - -	
	RA2	RADIO AID (2)	The type of radio navigational aid employed (Second occurrence).
		000 - UNKNOWN - - - - - - - - - - - - - -	
		004 - RADIO DIRECTION FINDING STATION (RG) - - - - - - - - - - - - - - -	
		005 - DIRECTIONAL RADIOBEACON (RD) - - -	
		010 - RACON (RACON) - - - - - - - - - -	
		014 - ROTATING RADIOBEACON (RW) - - - -	
		017 - CIRCULAR RADIOBEACON (RC) - - - -	
		045 - QTG STATION (R) - - - - - - - - - -	
		046 - COAST RADAR STATION (RA) - - - - -	
		047 - RAMARK (RAMARK) - - - - - - - - -	
		048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) - - - - -	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN) -	
		050 - NONE - - - - - - - - - - - - - - -	
		051 - CONSOL - - - - - - - - - - - - - -	

2C040 LEADING LINE

A TRACK LINE WHICH PASSES THROUGH ONE OR MORE (USUALLY TWO) CLEARLY DEFINED OBJECTS, ALONG WHICH A VESSEL CAN SAFELY TRAVEL.

Fcode	Feature	Attributes/Values	Definition
2C040	LEADING LINE (Cont.)		
	BRG BEARING OF OBJECT		The bearing of an object from an observer (on any point along the line) towards the object or feature, expressed in degrees and tenths (i.e. 003.0 degrees).
		000 - ANY BEARING - - - - - - - - - - -	
	COL CHARACTER OF LIGHT		Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position (i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR).
		000 - ANY DESCRIPTION - - - - - - - - -	
	DRP DESCRIPTION OF REFERENCE POINT		Description of the feature(s) which form a Leading Line or Clearing Line.
		000 - ANY DESCRIPTION - - - - - - - - -	
	LAP LINE ASSOCIATED FEATURES		The type and /or number of features associated with a Leading or Clearing Line.
		001 - ONE OBJECT (OTHER THAN A DIRECTIONAL LIGHT) - - - - - - -	
		002 - DIRECTIONAL LIGHT - - - - - - - -	
		003 - TWO OR MORE LIGHTS - - - - - - - -	
		004 - TWO OR MORE BEACONS - - - - - - -	
		005 - TWO OR MORE OBJECTS (OTHER THAN TWO LIGHTS OR TWO BEACONS) - - -	
		007 - DIRECTIONAL RADIOBEACON - - - - -	
		008 - MOIRE EFFECT LIGHT - - - - - - - -	
		009 - LEADING RACON - - - - - - - - - -	

2C050	LIGHT		A STATIONARY LUMINOUS OR LIGHTED AID TO MARINE NAVIGATION, INCLUDING THE LIGHT AT AN OPERATIONAL LIGHTHOUSE.
	BF1 BROADCAST FREQUENCY (1)		The frequency in kilohertz (kHz) on which a station broadcasts (first occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	BF2 BROADCAST FREQUENCY (2)		The frequency in kilohertz (kHz) on which a station broadcasts (second occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	BR1 BEACON RANGE (1)		The maximum distance at which the associated RA1 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	BR2 BEACON RANGE (2)		The maximum distance at which the associated RA2 can be used accurately. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown, 998=Not Applicable Range: 1...997	
	CCF COLOR CODE OF FEATURE		The color of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - RED (R) - - - - - - - - - - - - -	
		002 - RED & WHITE (RW) - - - - - - - - -	
		003 - RED & GREEN (RG) - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	CCF COLOR CODE OF FEATURE (Cont.)		
		004 - RED & BLACK (RB)	
		005 - RED-GREEN-RED (RGR)	
		006 - GREEN (G)	
		007 - GREEN & WHITE (GW)	
		008 - GREEN & RED (GR)	
		009 - GREEN & BLACK (GB)	
		010 - GREEN-RED-GREEN (GRG)	
		011 - GREEN-YELLOW-BLACK (GYB)	
		012 - YELLOW (Y)	
		013 - YELLOW & BLACK (YB)	
		014 - YELLOW-BLACK-YELLOW (YBY)	
		015 - YELLOW & RED (YR)	
		016 - YELLOW & GREEN (YG)	
		017 - YELLOW-RED-WHITE (YRW)	
		018 - BLACK (B)	
		019 - BLACK & YELLOW (BY)	
		020 - BLACK-YELLOW-BLACK (BYB)	
		021 - BLACK-RED-BLACK (BRB)	
		022 - BLACK & WHITE (BW)	
		023 - BLACK & RED (BR)	
		024 - BLACK & GREEN (BG)	
		025 - WHITE (W)	
		026 - WHITE & RED (WR)	
		027 - WHITE & ORANGE (W OR)	
		028 - WHITE & GREEN (WG)	
		029 - WHITE & BLACK (WB)	
		030 - WHITE & YELLOW (WY)	
		031 - WHITE-RED-GREEN (WRG)	
		032 - WHITE-GREEN-WHITE (WGW)	
		033 - ORANGE (OR)	
		034 - BLUE (BU)	
		035 - GRAY (GY)	
		036 - VIOLET (VI)	
		037 - BROWN (BR)	
	COL CHARACTER OF LIGHT		Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position [i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR].
		000 - ANY DESCRIPTION	
	EOL ELEVATION OF LIGHT		The elevation of a light.
		Default: 0=Unknown Range: 1...998	Increment: 1 Meter Limits: Measured from mean sea level to the focal plane of the light. Variance: N/A
	EXS EXISTENCE CATEGORY		The *state* or condition of the feature.
		033 - CONTINUOUS OPERATION	
		034 - INTERMITTENT OPERATION	
	HLT HYDROGRAPHIC LIGHT TYPE		The type of light used for marine navigation.
		000 - UNKNOWN	
		001 - SECTORED LIGHT	
		002 - OTHER	
		003 - MOIRE EFFECT LIGHT	
		004 - STRIP LIGHT	A light usually along a pier /wharf whose source has a linear form, generally horizontal, and whose main purpose is to aid *navigation or docking within harbors.*
		006 - LIGHTED BEACON	A navigation aid structure intended for use as a visual beacon but also exibiting a light.
	L51 SECTOR LABEL (1)		An identifier comprised of the color only, or the character and color(s) of a light within a sector. (First occurrence) *NOTE - the first sector (S51) is that sector whose initial sector bearing is first encountered when going clockwise from true north.
		000 - ANY IDENTIFIER	
	L52 SECTOR LABEL (2)		An identifier comprised of the color only, or the character and color(s) of a light within a sector (Second occurrence).
		000 - ANY IDENTIFIER	
	L53 SECTOR LABEL (3)		An identifier comprised of the color only, or the character and color(s) of a light within a sector (Third occurrence).

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	L53	SECTOR LABEL (3) (Cont.)	
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L54	SECTOR LABEL (4)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fourth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L55	SECTOR LABEL (5)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fifth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L56	SECTOR LABEL (6)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Sixth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L57	SECTOR LABEL (7)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Seventh occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L58	SECTOR LABEL (8)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eighth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L59	SECTOR LABEL (9)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Ninth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L60	SECTOR LABEL (10)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Tenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L61	SECTOR LABEL (11)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eleventh occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L62	SECTOR LABEL (12)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twelfth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L63	SECTOR LABEL (13)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Thirteenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L64	SECTOR LABEL (14)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fourteenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L65	SECTOR LABEL (15)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fifteenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L66	SECTOR LABEL (16)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Sixteenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L67	SECTOR LABEL (17)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Seventeenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L68	SECTOR LABEL (18)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eighteenth occurrence).

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	L68	SECTOR LABEL (18) (Cont.)	
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L69	SECTOR LABEL (19)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Nineteenth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L70	SECTOR LABEL (20)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twentieth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L71	SECTOR LABEL (21)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-first occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L72	SECTOR LABEL (22)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-second occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L73	SECTOR LABEL (23)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-third occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L74	SECTOR LABEL (24)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-fourth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	L75	SECTOR LABEL (25)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-fifth occurrence).
		000 - ANY IDENTIFIER - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	LVR	LIGHT VISIBILITY RANGE	The maximum distance at which a light can be seen at night in clear weather. Increment: 1 Nautical Mile Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 1...998	
	MLR	MULTIPLE LIGHT RANGES	A set of two numbers, light ranges at a light expressed in nautical miles, in separated by a slash (/) if only two visibilities exist, or by a dash (-) separating the greatest and least visibilities if 3 or more exist. Not applicable if light has only one range.
		000 - ANY SET - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	PER	PERIOD OF LIGHT	The amount of time until a light repeats its sequence. Increment: 0.1 Second Limits: Measured until a light repeats its characteristic flashing or occulting sequence. Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	RA1	RADIO AID (1)	The type of radio navigational aid employed (First occurrence).
		000 - UNKNOWN 004 - RADIO DIRECTION FINDING STATION (RG) 005 - DIRECTIONAL RADIOBEACON (RD) 010 - RACON (RACON) 014 - ROTATING RADIOBEACON (RW) 017 - CIRCULAR RADIOBEACON (RC) 045 - QTG STATION (R) 046 - COAST RADAR STATION (RA) 047 - RAMARK (RAMARK) 048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) 049 - RADIOBEACON, TYPE UNKNOWN (R BN) 050 - NONE	
	RA2	RADIO AID (2)	The type of radio navigational aid employed (Second occurrence).
		000 - UNKNOWN 004 - RADIO DIRECTION FINDING STATION (RG) 005 - DIRECTIONAL RADIOBEACON (RD) 010 - RACON (RACON) 014 - ROTATING RADIOBEACON (RW) 017 - CIRCULAR RADIOBEACON (RC) 045 - QTG STATION (R) 046 - COAST RADAR STATION (RA) 047 - RAMARK (RAMARK) 048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) 049 - RADIOBEACON, TYPE UNKNOWN (R BN) 050 - NONE	
	REF	RADAR REFLECTOR ATTRIBUTE	Indicates whether or not a radar reflector is attached to, or connected with, a feature.
		001 - RADAR REFLECTOR PRESENT 002 - RADAR REFLECTOR ABSENT	
	S51	SECTOR ANGLE (1)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (First occurrence).
		000 - ANY SET OF BEARINGS	
	S52	SECTOR ANGLE (2)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Second occurrence).
		000 - ANY SET OF BEARINGS	
	S53	SECTOR ANGLE (3)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Third occurrence).
		000 - ANY SET OF BEARINGS	
	S54	SECTOR ANGLE (4)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fourth occurrence).
		000 - ANY SET OF BEARINGS	
	S55	SECTOR ANGLE (5)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fifth occurrence).

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	S55	SECTOR ANGLE (5) (Cont.)	
		000 - ANY SET OF BEARINGS - - - - - - -	
	S56	SECTOR ANGLE (6)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Sixth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S57	SECTOR ANGLE (7)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Seventh occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S58	SECTOR ANGLE (8)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eighth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S59	SECTOR ANGLE (9)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Ninth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S60	SECTOR ANGLE (10)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Tenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S61	SECTOR ANGLE (11)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eleventh occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S62	SECTOR ANGLE (12)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in deg rees and tenths (i.e. 003.5-010.2) (Twelfth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S63	SECTOR ANGLE (13)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Thirteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S64	SECTOR ANGLE (14)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fourteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S65	SECTOR ANGLE (15)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fifteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S66	SECTOR ANGLE (16)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Sixteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S67	SECTOR ANGLE (17)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Seventeenth occurrence).

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	S67	SECTOR ANGLE (17) (Cont.)	
		000 - ANY SET OF BEARINGS - - - - - - -	
	S68	SECTOR ANGLE (18)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eighteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S69	SECTOR ANGLE (19)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Nineteenth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S70	SECTOR ANGLE (20)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twentieth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S71	SECTOR ANGLE (21)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-first occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S72	SECTOR ANGLE (22)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-second occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S73	SECTOR ANGLE (23)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-third occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S74	SECTOR ANGLE (24)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-fourth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	S75	SECTOR ANGLE (25)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-fifth occurrence).
		000 - ANY SET OF BEARINGS - - - - - - -	
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		079 - OTHER - - - - - - - - - - - - - -	
		100 - TOWER - - - - - - - - - - - - - -	
		105 - LATTICE - - - - - - - - - - - - -	
	SST	SOUND SIGNAL TYPE	The type of audible fog signal.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - BELL (BELL) - - - - - - - - - - -	
		002 - WHISTLE (WHIS) - - - - - - - - - -	
		003 - HORN (HORN) - - - - - - - - - - -	
		004 - GONG (GONG) - - - - - - - - - - -	
		005 - DIAPHONE (DIA) - - - - - - - - - -	
		006 - SIREN (SIREN) - - - - - - - - - -	
		007 - REED (REED) - - - - - - - - - - -	
		008 - EXPLOSIVE (EXPLOS) - - - - - - - -	
		016 - NONE - - - - - - - - - - - - - - -	
	TMC	TOPMARK CATEGORY	The type of mark atop a feature. Topmarks are symbols which convey significant information about surrounding waters or features.

Fcode	Feature	Attributes/Values	Definition
2C050	LIGHT (Cont.)		
	TMC TOPMARK CATEGORY (Cont.)		
		000 - UNKNOWN	
		001 - CAN (OPEN)	
		002 - CONE, POINT UP (OPEN)	
		003 - CAN (FILLED)	
		004 - CONE, POINT UP (FILLED)	
		005 - "X"	
		006 - BALL (OPEN)	
		007 - DOUBLE BALL (FILLED)	
		008 - DOUBLE CONE, POINTS UPWARD (FILLED)	
		009 - DOUBLE CONE, POINTS APART (FILLED)	
		010 - DOUBLE CONE, POINTS DOWNWARD (FILLED)	
		011 - DOUBLE CONE, POINTS TOGETHER (FILLED)	
		012 - DIAMOND (OPEN)	
		013 - DIAMOND (FILLED)	
		014 - CONE, POINT UP, OVER BALL (OPEN)	
		015 - CONE, POINT UP, OVER BALL (FILLED)	
		016 - BALL OVER CONE, POINT UP (OPEN)	
		017 - BALL OVER CONE, POINT UP (FILLED)	
		018 - CROSS	
		019 - BALL (FILLED)	
		020 - BROOM	
		021 - "T"	
		022 - CAN OVER BALL (OPEN)	
		023 - CROSS OVER BALL (OPEN)	
		024 - DIAMOND OVER BALL (FILLED)	
		025 - DOUBLE BALL (OPEN)	
		026 - CONE, POINT DOWNWARD (OPEN)	
		027 - DOUBLE CONE, POINTS APART (OPEN)	
		099 - NONE	

2C055	MARKER		A COLORED (USUALLY WHITE) MARK ON A CLIFF, ROCK, WALL, ETC., WHICH IS A CONSPICUOUS LANDMARK FOR MARINE NAVIGATION.

2C060	VISUAL BEACON		A FIXED, UNLIT STRUCTURE WHOSE PRIMARY USE IS A VISUAL AID TO MARINE NAVIGATION.
	BF1 BROADCAST FREQUENCY (1)		The frequency in kilohertz (kHz) on which a station broadcasts (first occurrence).
			Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	BF2 BROADCAST FREQUENCY (2)		The frequency in kilohertz (kHz) on which a station broadcasts (second occurrence).
			Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
		Default: 0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
	CCF COLOR CODE OF FEATURE		The color of the feature.
		000 - UNKNOWN	
		001 - RED (R)	
		002 - RED & WHITE (RW)	
		003 - RED & GREEN (RG)	
		004 - RED & BLACK (RB)	
		005 - RED-GREEN-RED (RGR)	
		006 - GREEN (G)	
		007 - GREEN & WHITE (GW)	

Fcode	Feature	Attributes/Values	Definition
2C060	VISUAL BEACON (Cont.)		
	CCF	COLOR CODE OF FEATURE (Cont.)	
		008 - GREEN & RED (GR)	
		009 - GREEN & BLACK (GB)	
		010 - GREEN-RED-GREEN (GRG)	
		011 - GREEN-YELLOW-BLACK (GYB)	
		012 - YELLOW (Y)	
		013 - YELLOW & BLACK (YB)	
		014 - YELLOW-BLACK-YELLOW (YBY)	
		015 - YELLOW & RED (YR)	
		016 - YELLOW & GREEN (YG)	
		017 - YELLOW-RED-WHITE (YRW)	
		018 - BLACK (B)	
		019 - BLACK & YELLOW (BY)	
		020 - BLACK-YELLOW-BLACK (BYB)	
		021 - BLACK-RED-BLACK (BRB)	
		022 - BLACK & WHITE (BW)	
		023 - BLACK & RED (BR)	
		024 - BLACK & GREEN (BG)	
		025 - WHITE (W)	
		026 - WHITE & RED (WR)	
		027 - WHITE & ORANGE (W OR)	
		028 - WHITE & GREEN (WG)	
		029 - WHITE & BLACK (WB)	
		030 - WHITE & YELLOW (WY)	
		031 - WHITE-RED-GREEN (WRG)	
		032 - WHITE-GREEN-WHITE (WGW)	
		033 - ORANGE (OR)	
		034 - BLUE (BU)	
		035 - GRAY (GY)	
		036 - VIOLET (VI)	
		037 - BROWN (BR)	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RA1	RADIO AID (1)	The type of radio navigational aid employed (First occurrence).
		000 - UNKNOWN	
		010 - RACON (RACON)	
		017 - CIRCULAR RADIOBEACON (RC)	
		047 - RAMARK (RAMARK)	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN)	
		050 - NONE	
	RA2	RADIO AID (2)	The type of radio navigational aid employed (Second occurrence).
		000 - UNKNOWN	
		010 - RACON (RACON)	
		017 - CIRCULAR RADIOBEACON (RC)	
		047 - RAMARK (RAMARK)	
		049 - RADIOBEACON, TYPE UNKNOWN (R BN)	
		050 - NONE	
	REF	RADAR REFLECTOR ATTRIBUTE	Indicates whether or not a radar reflector is attached to, or connected with, a feature.
		001 - RADAR REFLECTOR PRESENT	
		002 - RADAR REFLECTOR ABSENT	
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		000 - UNKNOWN	
		079 - OTHER	
		100 - TOWER	
		105 - LATTICE	
	SST	SOUND SIGNAL TYPE	The type of audible fog signal.
		000 - UNKNOWN	
		001 - BELL (BELL)	
		002 - WHISTLE (WHIS)	
		003 - HORN (HORN)	
		004 - GONG (GONG)	
		005 - DIAPHONE (DIA)	
		006 - SIREN (SIREN)	
		007 - REED (REED)	
		008 - EXPLOSIVE (EXPLOS)	
		016 - NONE	
	TMC	TOPMARK CATEGORY	The type of mark atop a feature. Topmarks are symbols which convey significant information about surrounding waters or features.

Fcode	Feature	Attributes/Values	Definition
2C060	VISUAL BEACON (Cont.)		
	TMC TOPMARK CATEGORY (Cont.)		
		000 - UNKNOWN	
		001 - CAN (OPEN)	
		002 - CONE, POINT UP (OPEN)	
		003 - CAN (FILLED)	
		004 - CONE, POINT UP (FILLED)	
		005 - "X"	
		006 - BALL (OPEN)	
		007 - DOUBLE BALL (FILLED)	
		008 - DOUBLE CONE, POINTS UPWARD (FILLED)	
		009 - DOUBLE CONE, POINTS APART (FILLED)	
		010 - DOUBLE CONE, POINTS DOWNWARD (FILLED)	
		011 - DOUBLE CONE, POINTS TOGETHER (FILLED)	
		012 - DIAMOND (OPEN)	
		013 - DIAMOND (FILLED)	
		014 - CONE, POINT UP, OVER BALL (OPEN)	
		015 - CONE, POINT UP, OVER BALL (FILLED)	
		016 - BALL OVER CONE, POINT UP (OPEN)	
		017 - BALL OVER CONE, POINT UP (FILLED)	
		018 - CROSS	
		019 - BALL (FILLED)	
		020 - BROOM	
		021 - "T"	
		022 - CAN OVER BALL (OPEN)	
		023 - CROSS OVER BALL (OPEN)	
		024 - DIAMOND OVER BALL (FILLED)	
		025 - DOUBLE BALL (OPEN)	
		026 - CONE, POINT DOWNWARD (OPEN)	
		027 - DOUBLE CONE, POINTS APART (OPEN)	
		099 - NONE	

2D000	MISCELLANEOUS UNDERWATER FEATURE		AN OBJECT OR AREA ON THE SEA FLOOR OR UNDER WATER THAT IS NOT IDENTIFIED BY ANY OTHER FACS CODE.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
		003 - DOUBTFUL	
	DAT DATE CATEGORY		Date (Year) of report or activity.
		000 - ANY YEAR	
	DDA DESCRIPTION OF DANGER		Textual description of the dangerous condition, object or activity associated with the feature.
		000 - ANY DESCRIPTION	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	HDI HYDROGRAPHIC DEPTH /HEIGHT INFORMATION		Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN	
		010 - DEPTH KNOWN BY WIRE DRAG	
		012 - DEPTH UNKNOWN	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable *Range: 0.1...12000.0*	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2D000	MISCELLANEOUS UNDERWATER FEATURE (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	SFC	SEA FLOOR FEATURE CATEGORY	Type of object or area on the sea floor or below the water surface.
		001 - UNKNOWN (OBSTRUCTION) - - - - - -	
		002 - OTHER - - - - - - - - - - - - - -	
		003 - FISH HAVEN - - - - - - - - - - - -	
		004 - WELL - - - - - - - - - - - - - - -	
		005 - SUBMERGED PRODUCTION PLATFORM - -	
	SSF	SONAR SIGNIFICANCE FACTOR	Indicates whether the feature has been confirmed by sonar.
		001 - SONAR CONFIRMED - - - - - - - - -	
		002 - NOT SONAR CONFIRMED - - - - - - -	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - -	
		004 - INDIAN SPRING LOW WATER - - - - -	
		011 - MEAN LOW WATER - - - - - - - - - -	
		013 - MEAN LOW WATER SPRINGS - - - - - -	
		014 - MEAN LOWER LOW WATER - - - - - - -	
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	
		025 - MEAN LOWER LOW WATER SPRINGS - - -	
		027 - LOWEST NORMAL LOW WATER - - - - -	
		029 - LOWEST LOW WATER - - - - - - - - -	
		031 - NOT APPLICABLE - - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2D010	BREAKERS		WAVES WHICH BREAK OR CREST ON REACHING SHALLOW WATER, OR ON ENCOUNTERING A CONTRARY CURRENT.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
		003 - DOUBTFUL - - - - - - - - - - - - -	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - - -	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2D010	BREAKERS (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		002 - OFF-SHORE 008 - AT SHORELINE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D020	CRIB		A FRAMEWORK STRUCTURE USED TO SUPPORT PIPELINES, SEWER LINES, OR OUTFALLS.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE 003 - DOUBTFUL	
	ACO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DAT DATE CATEGORY		Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	HDI HYDROGRAPHIC DEPTH /HEIGHT INFORMATION		Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN 012 - DEPTH UNKNOWN 015 - NOT APPLICABLE	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2D020	CRIB (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN 004 - INDIAN SPRING LOW WATER 011 - MEAN LOW WATER 013 - MEAN LOW WATER SPRINGS 014 - MEAN LOWER LOW WATER 015 - MEAN SEA LEVEL 023 - OTHER 025 - MEAN LOWER LOW WATER SPRINGS 027 - LOWEST NORMAL LOW WATER 029 - LOWEST LOW WATER 031 - NOT APPLICABLE	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC VERTICAL REFERENCE CATEGORY		Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) 004 - BELOW SURFACE /SUBMERGED 008 - COVERS AND UNCOVERS	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D030	DISCOLORED WATER		AN AREA OF SEA WATER HAVING A COLOR DISTINCTLY DIFFERENT FROM THE SURROUNDING WATER, INDICATING A POSSIBLE UNCHARTED DANGER TO NAVIGATION.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE 003 - DOUBTFUL	
	DAT DATE CATEGORY		Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
2D030	DISCOLORED WATER (Cont.)		
	WID	WIDTH (Cont.)	
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D040	EDDIES		CIRCULAR MOVEMENTS OF WATER RUNNING CONTRARY TO THE MAIN CURRENT.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D050	FOUL GROUND		A REGION OF SHALLOW WATER STREWN WITH ROCKS, BOULDERS, CORAL, WRECKAGE, OR OTHER OBSTRUCTIONS, WHICH IS SAFE FOR SURFACE NAVIGATION BUT IS NOT SUITABLEFOR ANCHORING, GROUNDING, OR GROUND FISHING.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE 003 - DOUBTFUL	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN 012 - DEPTH UNKNOWN	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2D050	FOUL GROUND (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		004 - INDIAN SPRING LOW WATER - - - - - -	
		011 - MEAN LOW WATER - - - - - - - - - - -	
		013 - MEAN LOW WATER SPRINGS - - - - - - -	
		014 - MEAN LOWER LOW WATER - - - - - - - -	
		015 - MEAN SEA LEVEL - - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - - -	
		025 - MEAN LOWER LOW WATER SPRINGS - - - -	
		027 - LOWEST NORMAL LOW WATER - - - - - - -	
		029 - LOWEST LOW WATER - - - - - - - - - -	
		031 - NOT APPLICABLE - - - - - - - - - - -	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - - -	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D060	KELP		A LARGE BROWN SEAWEED, OFTEN ASSOCIATED WITH SUBMERGED PINNACLE ROCKS.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D080	OVERFALLS /TIDE RIPS		SHORT, BREAKING WAVES OCCURRING WHEN A CURRENT PASSES OVER A SHOAL OR OTHERSUBMARINE OBSTRUCTION OR MEETS A CONTRARY CURRENT OR WIND. TIDE RIPS OCCURWHEN ONE OR MORE OF THE CURRENTS ARE TIDAL.

Fcode	Feature	Attributes/Values	Definition
2D080	OVERFALLS /TIDE RIPS (Cont.)		
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2D090	PERCH /STAKE		A SMALL MARKER USED TO IDENTIFY CHANNELS THROUGH MUDFLATS OR SANDBARS OR TOMARK A ROCK OR SHOAL.
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		103 - Y (PORT) - - - - - - - - - - - - -	
		104 - ARROW (STARBOARD) - - - - - - - - -	
2D100	*PILING*		*A LONG, HEAVY TIMBER OR SECTION OF STEEL, CONCRETE, ETC., FORCED INTO THE EARTH TO SERVE AS A SUPPORT, AS FOR A PIER.*
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
		003 - DOUBTFUL - - - - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - - -	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE - - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	
		003 - REPORTED - - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.

Fcode	Feature	Attributes/Values	Definition
2D100	PILING (Cont.)		
	VRC	VERTICAL REFERENCE CATEGORY (Cont.)	
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		004 - BELOW SURFACE /SUBMERGED - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - -	
2D110	PLATFORM		A PERMANENT FLAT SURFACE RAISED ABOVE THE WATER SURFACE, AS A WORKING STAGEFOR CONDUCTING OFFSHORE OPERATIONS.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		010 - 10 - - - - - - - - - - - - - - -	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0 - - - - - - - - - - - - - - -	
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - -	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	CHA	LIGHT CHARACTERISTIC CATEGORY	The sequence, grouping, and distinctive character of a light.
		021 - LIGHTED - - - - - - - - - - - - -	
		023 - UNLIGHTED - - - - - - - - - - - -	

Pcode	Feature	Attributes/Values	Definition
2D110	PLATFORM (Cont.)		
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1. Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	NST	RADIO NAVIGATION /COMMUNICATION	Type of equipment or system used.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		009 - OTHER - - - - - - - - - - - - - - -	
		010 - RADAR BEACON (RACON) - - - - - - - -	
		044 - RAMARK - - - - - - - - - - - - - - -	
		050 - NONE - - - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
2D110	PLATFORM (Cont.)		
	RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SST SOUND SIGNAL TYPE		The type of audible fog signal.
		000 - UNKNOWN	
		001 - BELL (BELL)	
		002 - WHISTLE (WHIS)	
		003 - HORN (HORN)	
		004 - GONG (GONG)	
		005 - DIAPHONE (DIA)	
		006 - SIREN (SIREN)	
		007 - REED (REED)	
		008 - EXPLOSIVE (EXPLOS)	
		016 - NONE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2D120	REEF		A ROCKY OR CORAL ELEVATION AT OR NEAR ENOUGH TO THE SURFACE OF THE SEA TO BE A DANGER TO SURFACE VESSELS.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
		003 - DOUBTFUL	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN	
		002 - LIMITS AND INFO UNKNOWN	
	DAT DATE CATEGORY		Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	HDH HYDROGRAPHIC DRYING HEIGHT		The height of the feature, which tidal waters cover and uncover, referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the tallest part of the feature. Variance: N/A
		Default: 0=Unknown, 100.1=Not Applicable Range: 0.1...100.0	
	HDI HYDROGRAPHIC DEPTH /HEIGHT INFORMATION		Information about the accuracy or availability of depth or uncovering height of a feature.

Ecode	Feature	Attributes/Values	Definition
2D120	REEF (Cont.)		
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION (Cont.)	
		009 - DEPTH KNOWN	
		012 - DEPTH UNKNOWN	
		013 - UNCOVERING HEIGHT KNOWN	
		014 - UNCOVERING HEIGHT UNKNOWN	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		019 - CORAL	
		066 - ROCK	Exposed bedrock.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		000 - UNKNOWN	
		002 - AWASH AT SOUNDING DATUM	<= .1 m above sounding datum
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2D125	REEF POOL		AN OPEN BODY OF WATER FOUND WITHIN THE INTERIOR OF A REEF.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
2D130	ROCK		AN ISOLATED ROCKY FORMATION OR A SINGLE LARGE STONE, LOCATED BELOW HIGH WATER, USUALLY CONSTITUTING A DANGER TO NAVIGATION.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE 003 - DOUBTFUL	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	HDH	HYDROGRAPHIC DRYING HEIGHT	The height of the feature, which tidal waters cover and uncover, referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the tallest part of the feature. Variance: N/A
		Default: 0=Unknown, 100.1=Not Applicable Range: 0.1...100.0	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN 010 - DEPTH KNOWN BY WIRE DRAG 012 - DEPTH UNKNOWN 013 - UNCOVERING HEIGHT KNOWN 014 - UNCOVERING HEIGHT UNKNOWN	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
2D130	ROCK (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		019 - CORAL	
		066 - ROCK	Exposed bedrock.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	SOH	SEVERITY OF HAZARD	Severity of hazard to surface navigation.
		001 - DANGEROUS	<= 30 meters deep, or other indication of danger, usually with blue tint
		002 - NON-DANGEROUS	> 30 meters deep, or absence of any indication of danger or blue tint
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		000 - UNKNOWN	
		002 - AWASH AT SOUNDING DATUM	<= .1 m above sounding datum
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	

Fcode	Feature	Attributes/Values	Definition
2D140	SNAG /STUMP		A FIRMLY ATTACHED STEM OR TRUNK OF A TREE NEAR THE SURFACE OF WATER.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
		003 - DOUBTFUL	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.

Fcode	Feature	Attributes/Values	Definition
2D140	SNAG /STUMP (Cont.)		
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION (Cont.)	
		009 - DEPTH KNOWN	
		010 - DEPTH KNOWN BY WIRE DRAG	
		012 - DEPTH UNKNOWN	
		015 - NOT APPLICABLE	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER)	
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	
2D180	WRECK		THE RUINED REMAINS OF A VESSEL.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.
			Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1DR	DERIVED DENSITY OF ROOF COVER CODE	(DA) Coded value indicating percent of Roof Cover within area of feature.
		010 - 10	
	1DS	DERIVED DENSITY OF STRUCTURES CODE	(DA) Coded value indicating Structure Count within area of feature.
		000 - 0	

Fcode	Feature	Attributes/Values	Definition
2D180	WRECK (Cont.)		
	1DT	DERIVED DENSITY OF TREE COVER CODE	(DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.
		000 - 0 - - - - - - - - - - - - - - - -	DMT = 0
		001 - 1 - - - - - - - - - - - - - - - -	DMT >= 1 and <= 29
		003 - 3 - - - - - - - - - - - - - - - -	DMT >= 30
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
		003 - DOUBTFUL - - - - - - - - - - - -	
	ACO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	COD	CERTAINTY OF DELINEATION	Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN - - - - - -	
		002 - LIMITS AND INFO UNKNOWN - - - - -	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - -	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	DMS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.
			Increment: 1 Structure Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EPA	EXPOSED PORTION ATTRIBUTE	That portion of the vessel found above the surface.

Fcode	Feature	Attributes/Values	Definition
2D180	WRECK (Cont.)		
	EPA	EXPOSED PORTION ATTRIBUTE (Cont.)	
		001 - MAST	
		002 - FUNNEL	
		003 - SUPERSTRUCTURE	
		004 - HULL	
		005 - MAST AND FUNNEL	
		006 - NONE EXPOSED	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN	
		010 - DEPTH KNOWN BY WIRE DRAG	
		011 - DEPTH UNKNOWN BUT SAFE TO DEPTH SHOWN	
		012 - DEPTH UNKNOWN	
		015 - NOT APPLICABLE	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum. Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SOH	SEVERITY OF HAZARD	Severity of hazard to surface navigation.
		001 - DANGEROUS	<= 30 meters deep, or other indication of danger, usually with blue tint
		002 - NON-DANGEROUS	> 30 meters deep, or absence of any indication of danger or blue tint
	SSF	SONAR SIGNIFICANCE FACTOR	Indicates whether the feature has been confirmed by sonar.
		001 - SONAR CONFIRMED	

Fcode	Feature	Attributes/Values	Definition
2D180	WRECK (Cont.)		
	SSF	SONAR SIGNIFICANCE FACTOR (Cont.)	
		002 - NOT SONAR CONFIRMED	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
		031 - NOT APPLICABLE	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		000 - UNKNOWN	
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER)	
		002 - AWASH AT SOUNDING DATUM	<= .1 m above sounding datum
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2E010	DEPTH CURVE		A NAVIGATIONAL SAFETY LINE INDICATING THAT NO SOUNDING OF A LESSER DEPTH EXISTS SEAWARD OF THE LINE, BUT GREATER DEPTHS MAY OCCUR ON THE SHALLOW SIDE OF THE LINE.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE	Solid line curve.
		002 - APPROXIMATE	Dashed line curve.
	CRV	DEPTH CURVE OR CONTOUR VALUE	A specified value assigned to a particular depth curve or contour.
		000 - ANY VALUE	
	UNI	UNITS CATEGORY	Unit of measure.
		005 - FATHOMS	
		006 - FEET	
		013 - METERS	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	

Fcode	Feature	Attributes/Values	Definition
2E010	DEPTH CURVE (Cont.)		
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	

2E015	DEPTH CONTOUR		AN ISOLINE INDICATING A SPECIFIC DEPTH FROM THE SOUNDING DATUM TO THE SEA FLOOR.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	Solid line curve.
		002 - APPROXIMATE - - - - - - - - - - - -	Dashed line curve.
	CRV	DEPTH CURVE OR CONTOUR VALUE	A specified value assigned to a particular depth curve or contour.
		000 - ANY VALUE - - - - - - - - - - - -	
	HQC	HYPSOGRAPHY PORTRAYAL CATEGORY	Type of line shown.
		001 - INDEX - - - - - - - - - - - - - -	A line shown at specified intervals indicating a multiple of the contour interval.
		002 - INTERMEDIATE - - - - - - - - - - - -	A line between index contours, at the specified contour interval.
	UNI	UNITS CATEGORY	Unit of measure.
		005 - FATHOMS - - - - - - - - - - - - -	
		006 - FEET - - - - - - - - - - - - - - -	
		013 - METERS - - - - - - - - - - - - - -	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - -	
		004 - INDIAN SPRING LOW WATER - - - - - -	
		011 - MEAN LOW WATER - - - - - - - - - -	
		013 - MEAN LOW WATER SPRINGS - - - - - -	
		014 - MEAN LOWER LOW WATER - - - - - - -	
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	
		025 - MEAN LOWER LOW WATER SPRINGS - - -	
		027 - LOWEST NORMAL LOW WATER - - - - -	
		029 - LOWEST LOW WATER - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	

2E020	SOUNDING		A MEASURED WATER DEPTH OR DRYING HEIGHT.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	Labeled PA on source.
		003 - DOUBTFUL - - - - - - - - - - - - -	Labeled PD on source.
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - -	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - - -	Indicated as "ED" on source.
		003 - REPORTED - - - - - - - - - - - - -	
	HDH	HYDROGRAPHIC DRYING HEIGHT	The height of the feature, which tidal waters cover and uncover, referenced to a specified vertical datum.

Fcode	Feature	Attributes/Values	Definition
2ED20	SOUNDING (Cont.)		
	HDH HYDROGRAPHIC DRYING HEIGHT (Cont.)		
			Increment: 0.1 Meter Limits: From the specified vertical datum to the exposed portion of the foreshore. Variance: N/A
		Default: 0=Unknown, 100.1=Not Applicable Range: 0.1...100.0	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the sea floor. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	SND SOUNDING CATEGORY		Type of sounding.
		001 - DRYING HEIGHT (VERTICAL)	
		002 - NO BOTTOM FOUND (VERTICAL)	
		004 - SLANT	
		006 - ORDINARY (VERTICAL)	
		007 - DOUBTFUL SOUNDING (VERTICAL)	Sounding where depth may be less than indicated, but the position is not in doubt.
		008 - DRYING HEIGHT (SLANT)	
		009 - NO BOTTOM (SLANT)	
		010 - DOUBTFUL (SLANT)	
	SVC SOUNDING VELOCITY		Value added to or subtracted from instrument reading to obtain correct depth .
		000 - UNKNOWN	
		001 - 4800 FT /SEC CALIBRATION	
		002 - 1500 METER /SEC CALIBRATION	
		003 - MATHEWS TABLES (NP 139) CORRECTED	
		004 - SVM CORRECTED	
		005 - OTHER CALIBRATION	
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	

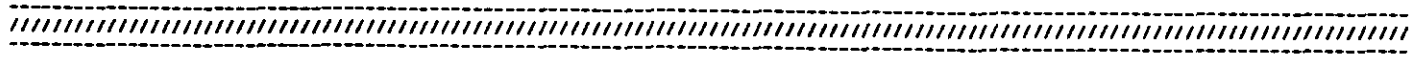
2ED30 TRACK LINE — THE PATH OF TRAVEL WITH RESPECT TO THE EARTH OF THE SURVEY SHIP COLLECTING HYDROGRAPHIC OR BATHYMETRIC SURVEY DATA.

2ED40 TRACK SWATH — AREA OF HORIZONTAL COVERAGE AS RECORDED BY MULTIBEAM SONAR SYSTEMS.

Fcode	Feature	Attributes/Values	Definition
2F010	BOTTOM CHARACTERISTICS		THE CHARACTERISTICS (CONSISTENCY, MATERIAL) OF THE SEA FLOOR AT A SAMPLED POINT.
	CSM	SECONDARY MATERIAL CHARACTERISTICS	Characteristics of secondary material composition of feature.
		000 - UNKNOWN	
		009 - BROKEN	
		010 - CALCAREOUS	
		015 - COARSE	
		021 - DECAYED	
		025 - FINE	Minute particles.
		026 - FLINTY	
		032 - GLACIAL	
		036 - GRITTY	
		038 - GROUND	Used before shells.
		039 - HARD	
		042 - LARGE	
		066 - ROCKY	
		067 - ROTTEN	
		078 - SMALL	
		079 - SOFT	
		080 - SPECKLED	
		084 - STICKY	
		085 - STIFF	
		087 - STREAKY	
		089 - TENACIOUS	
		091 - UNEVEN	
		093 - VARIED	
		094 - VOLCANIC	
		100 - MEDIUM	
	MCC	MATERIAL COMPOSITION CHARACTERISTICS	Characteristics of primary material composition of feature.
		000 - UNKNOWN	
		009 - BROKEN	
		010 - CALCAREOUS	
		015 - COARSE	
		021 - DECAYED	
		025 - FINE	Minute particles.
		026 - FLINTY	
		032 - GLACIAL	
		036 - GRITTY	
		038 - GROUND	Used before shells.
		039 - HARD	
		042 - LARGE	
		051 - MOBILE BOTTOM/SANDWAVES	
		066 - ROCKY	
		067 - ROTTEN	
		078 - SMALL	Greater in size than "Fine".
		079 - SOFT	
		080 - SPECKLED	
		084 - STICKY	
		085 - STIFF	
		087 - STREAKY	
		089 - TENACIOUS	
		091 - UNEVEN	
		093 - VARIED	
		094 - VOLCANIC	
		100 - MEDIUM	Used before sand.
		102 - SPRINGS IN SEABED	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		001 - ASH	
		006 - BOULDERS	
		011 - CHALK	
		012 - CINDERS	
		013 - CIRRIPEDIA	
		014 - CLAY	
		016 - COBBLE	
		019 - CORAL	
		020 - CORAL HEAD	
		022 - DIATOMS	
		027 - FORAMINIFERA	
		028 - FUCUS	
		033 - GLOBIGERINA	
		034 - GRASS	
		035 - GRAVEL	
		037 - GROUND	
		043 - LAVA	
		045 - MADREPORES	
		046 - MANGANESE	
		047 - MARL	
		049 - MATTES	

Fcode	Feature	Attributes/Values	Definition
2F010	BOTTOM CHARACTERISTICS (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		052 - MUD	
		053 - MUSSELS	
		055 - OOZE	
		056 - OYSTERS	
		058 - PEBBLES	
		059 - POLYZOA	
		061 - PTEROPODS	
		062 - PUMICE	
		063 - QUARTZ	
		064 - RADIOLARIA	
		066 - ROCK	Exposed bedrock.
		069 - SAND	
		070 - SCHIST	
		071 - SCORIA	
		072 - SEA-TANGLE	
		073 - SEAWEED	
		074 - SHELLS	
		075 - SHINGLES	
		076 - SILT	
		081 - SPICULES	
		082 - SPONGE	
		086 - STONE	
		090 - TUFA	
	MCS	MATERIAL COMPOSITION SECONDARY	Secondary material composition of feature.
		000 - UNKNOWN	
		001 - ASH	
		006 - BOULDERS	
		011 - CHALK	
		012 - CINDERS	
		013 - CIRRIPEDIA	
		014 - CLAY	
		016 - COBBLE	
		019 - CORAL	
		020 - CORAL HEAD	
		022 - DIATOMS	
		027 - FORAMINIFERA	
		028 - FUCUS	
		033 - GLOBIGERINA	
		034 - GRASS	
		035 - GRAVEL	
		037 - GROUND	
		043 - LAVA	
		045 - MADREPORES	
		046 - MANGANESE	
		047 - MARL	
		049 - MATTES	
		052 - MUD	
		053 - MUSSELS	
		055 - OOZE	
		056 - OYSTERS	
		058 - PEBBLES	
		059 - POLYZOA	
		061 - PTEROPODS	
		062 - PUMICE	
		063 - QUARTZ	
		064 - RADIOLARIA	
		066 - ROCK	
		069 - SAND	
		070 - SCHIST	
		071 - SCORIA	
		072 - SEA-TANGLE	
		073 - SEAWEED	
		074 - SHELLS	
		075 - SHINGLES	
		076 - SILT	
		081 - SPICULES	
		082 - SPONGE	
		086 - STONE	
		090 - TUFA	
	MCU	MATERIAL COMPOSITION UNDERLYING	Underlying material composition of feature.
		000 - UNKNOWN	
		001 - ASH	
		006 - BOULDERS	
		011 - CHALK	
		012 - CINDERS	
		013 - CIRRIPEDIA	
		014 - CLAY	
		016 - COBBLE	

Fcode	Feature	Attributes/Values	Definition
2F010	BOTTOM CHARACTERISTICS (Cont.)		
	MCU	MATERIAL COMPOSITION UNDERLYING (Cont.)	
		019 - CORAL	
		020 - CORAL HEAD	
		022 - DIATOMS	
		027 - FORAMINIFERA	
		028 - FUCUS	
		033 - GLOBIGERINA	
		034 - GRASS	
		035 - GRAVEL	
		037 - GROUND	
		043 - LAVA	
		045 - MADREPORES	
		046 - MANGANESE	
		047 - MARL	
		049 - MATTES	
		052 - MUD	
		053 - MUSSELS	
		055 - OOZE	
		056 - OYSTERS	
		058 - PEBBLES	
		059 - POLYZOA	
		061 - PTEROPODS	
		062 - PUMICE	
		063 - QUARTZ	
		064 - RADIOLARIA	
		066 - ROCK	
		069 - SAND	
		070 - SCHIST	
		071 - SCORIA	
		072 - SEA-TANGLE	
		073 - SEAWEED	
		074 - SHELLS	
		075 - SHINGLES	
		076 - SILT	
		081 - SPICULES	
		082 - SPONGE	
		086 - STONE	
		090 - TUFA	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION	
	UMC	UNDERLYING MATERIAL CHARACTERISTICS	Characteristics of underlying material composition of feature.
		000 - UNKNOWN	
		009 - BROKEN	
		010 - CALCAREOUS	
		015 - COARSE	
		021 - DECAYED	
		025 - FINE	Minute particles.
		026 - FLINTY	
		032 - GLACIAL	
		036 - GRITTY	
		038 - GROUND	Used before shells.
		039 - HARD	
		042 - LARGE	
		066 - ROCKY	
		067 - ROTTEN	
		078 - SMALL	
		079 - SOFT	
		080 - SPECKLED	
		084 - STICKY	
		085 - STIFF	
		087 - STREAKY	
		089 - TENACIOUS	
		091 - UNEVEN	
		093 - VARIED	
		094 - VOLCANIC	
		100 - MEDIUM	



2G010	CURRENT ARROW /FLOW ARROW		A DESIGNATION OR SYMBOL ON A MAP OR CHART INDICATING THE FLOW DIRECTION OF A CURRENT.

Fcode	Feature	Attributes/Values	Definition
2G010	CURRENT ARROW /FLOW ARROW (Cont.)		
	CRN CURRENT RATE MINIMUM		Minimum speed of current.
			Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...98.9	
	CRX CURRENT RATE MAXIMUM		Maximum speed of current.
			Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...98.9	
	CUR CURRENT TYPE CATEGORY		The horizontal movement of a body of water.
		001 - EBB - - - - - - - - - - - - - - -	Tidal current moving away from land or down a tidal stream.
		002 - FLOOD - - - - - - - - - - - - - -	Tidal current moving toward land or up a tidal stream.
		003 - GENERAL - - - - - - - - - - - -	
		004 - RIVER FLOW - - - - - - - - - - -	
		005 - OCEAN - - - - - - - - - - - - - -	Non-Tidal
	DOF DIRECTION OF FLOW		Azimuth of movement or direction of the flow.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the direction of the flow. Variance: N/A
		Range: 0...359	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		001 - DEFINITE - - - - - - - - - - - -	
		002 - DOUBTFUL - - - - - - - - - - - -	Direction is variable or information uncertain
	HS1 CURRENT INFORMATION (1)		Month of current appearance.
		000 - UNKNOWN /NA - - - - - - - - - -	
		001 - JAN - - - - - - - - - - - - - - -	
		002 - FEB - - - - - - - - - - - - - - -	
		003 - MAR - - - - - - - - - - - - - - -	
		004 - APR - - - - - - - - - - - - - - -	
		005 - MAY - - - - - - - - - - - - - - -	
		006 - JUN - - - - - - - - - - - - - - -	
		007 - JUL - - - - - - - - - - - - - - -	
		008 - AUG - - - - - - - - - - - - - - -	
		009 - SEP - - - - - - - - - - - - - - -	
		010 - OCT - - - - - - - - - - - - - - -	
		011 - NOV - - - - - - - - - - - - - - -	
		012 - DEC - - - - - - - - - - - - - - -	
	HS2 CURRENT INFORMATION (2)		Month of current disappearance, if different from HS1.
		000 - UNKNOWN /NA - - - - - - - - - -	
		001 - JAN - - - - - - - - - - - - - - -	
		002 - FEB - - - - - - - - - - - - - - -	
		003 - MAR - - - - - - - - - - - - - - -	
		004 - APR - - - - - - - - - - - - - - -	
		005 - MAY - - - - - - - - - - - - - - -	
		006 - JUN - - - - - - - - - - - - - - -	
		007 - JUL - - - - - - - - - - - - - - -	
		008 - AUG - - - - - - - - - - - - - - -	
		009 - SEP - - - - - - - - - - - - - - -	
		010 - OCT - - - - - - - - - - - - - - -	
		011 - NOV - - - - - - - - - - - - - - -	
		012 - DEC - - - - - - - - - - - - - - -	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - -	

2G020	TIDE GAUGE	AN INSTRUMENT FOR MEASURING THE HEIGHT OF THE TIDE.

Fcode	Feature	Attributes/Values	Definition
2G030	TIDAL STREAM DATA POINT		LOCATION FOR WHICH TABULATED TIDAL STREAM DATA ARE GIVEN. TIDAL STREAMS ARE CURRENTS THAT ARE PERIODIC AND ASTRONOMIC IN ORIGIN, WHICH DISTINGUISHES THEM FROM NORMAL CURRENTS, WHICH ARE NOT DEPENDENT ON ASTRONOMIC CONDITIONS.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
2G040	CURRENT DIAGRAM		A GRAPH SHOWING THE AVERAGE SPEED OF THE FLOOD AND EBB CURRENTS AT DIFFERENT PERIODS OF THE CURRENT CYCLE. A CYCLE IS FROM HIGH WATER TO HIGH WATER.
	C80	RATE OF CURRENT	Rate of current flow at high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C81	RATE OF CURRENT (1)	Rate of current flow 1 hour after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C82	RATE OF CURRENT (2)	Rate of current flow 2 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C83	RATE OF CURRENT (3)	Rate of current flow 3 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C84	RATE OF CURRENT (4)	Rate of current flow 4 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C85	RATE OF CURRENT (5)	Rate of current flow 5 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C86	RATE OF CURRENT (6)	Rate of current flow 6 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C87	RATE OF CURRENT (7)	Rate of current flow 7 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A Default: 0=Unknown Range: 0.1...99.9
	C88	RATE OF CURRENT (8)	Rate of current flow 8 hours after high water.

Fcode	Feature	Attributes/Values	Definition
2G040	CURRENT DIAGRAM (Cont.)		
	C88 RATE OF CURRENT (8) (Cont.)		Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...99.9	
	C89 RATE OF CURRENT (9)		Rate of current flow 9 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...99.9	
	C90 RATE OF CURRENT (10)		Rate of current flow 10 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...99.9	
	C91 RATE OF CURRENT (11)		Rate of current flow 11 hours after high water. Increment: 0.1 Knot Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 0.1...99.9	
	D80 DIRECTION OF CURRENT		Direction of current flow at high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D81 DIRECTION OF CURRENT (1)		Direction of current flow 1 hour after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D82 DIRECTION OF CURRENT (2)		Direction of current flow 2 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D83 DIRECTION OF CURRENT (3)		Direction of current flow 3 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D84 DIRECTION OF CURRENT (4)		Direction of current flow 4 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D85 DIRECTION OF CURRENT (5)		Direction of current flow 5 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D86 DIRECTION OF CURRENT (6)		Direction of current flow 6 hours after high water.

Fcode	Feature	Attributes/Values	Definition
2G040	CURRENT DIAGRAM (Cont.)		
	D86 DIRECTION OF CURRENT (6) (Cont.)		Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D87 DIRECTION OF CURRENT (7)		Direction of current flow 7 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D88 DIRECTION OF CURRENT (8)		Direction of current flow 8 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D89 DIRECTION OF CURRENT (9)		Direction of current flow 9 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D90 DIRECTION OF CURRENT (10)		Direction of current flow 10 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	
	D91 DIRECTION OF CURRENT (11)		Direction of current flow 11 hours after high water. Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Default: 360=Unknown Range: 0...359	

2H010	AQUEDUCT		AN ARTIFICIAL CHANNEL DESIGNED TO TRANSPORT WATER FROM A REMOTE SOURCE, USUALLY BY GRAVITY.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AAA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	ATC AQUEDUCT TYPE CATEGORY		Type of aqueduct.

Fcode	Feature	Attributes/Values	Definition
2H010	AQUEDUCT (Cont.)		
	ATC	AQUEDUCT TYPE CATEGORY (Cont.)	
		001 - QANAT/KANAT/KAREZ MAINTENANCE SHAFT	A vertical shaft used for the construction or maintenance of a qanat, kanat, or karez tunnel.
		002 - OTHER	
		003 - QANAT/KANAT/KAREZ TUNNEL	A gently sloping tunnel which taps a supply of ground water and transports it by gravity for some distance to where the tunnel intersects the ground surface. It is characterized by vertical maintenance shafts along its length.
	BMC	BOTTOM MATERIAL COMPOSITION	Predominant material composition of the bottom of a body of water.
		000 - UNKNOWN	
		001 - CLAY AND SILT	
		002 - SILTY SANDS	
		003 - SAND AND GRAVEL	
		004 - GRAVEL AND COBBLE	
		005 - ROCKS AND BOULDERS	
		006 - BEDROCK	
		007 - PAVED	
		008 - PEAT	
	CDA	COVERED DRAINAGE ATTRIBUTE	Condition where an artificial or improved natural drainage way is completely covered over and connects open drainage ways at each end.
		001 - UNCOVERED	
		002 - COVERED	
		003 - NOT APPLICABLE	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DVL	DENSE BANK VEGETATION LEFT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the left bank.
		001 - 1	>50%
		002 - 2	<=50%
	DVR	DENSE BANK VEGETATION RIGHT	Indicates whether dense vegetation (thich brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the right bank.
		001 - 1	>50%
		002 - 2	<=50%
	DW1	DEPTH OF WATER (1)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (First Range).
		000 - UNKNOWN	
		001 - <= 0.8	
		002 - > 0.8 AND <= 1.6	
		003 - > 1.6 AND <= 2.4	
		004 - > 2.4	
		005 - NOT APPLICABLE	
	DW2	DEPTH OF WATER (2)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (Second Range).
		000 - UNKNOWN	
		001 - <= 1.6	
		002 - > 1.6 AND <= 2.4	
		003 - > 2.4	
		004 - NOT APPLICABLE	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open - Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees - Largest percentage of area is covered by trees of any height.
		002 - 2	Structures - Largest percentage of area is covered by man-made structures.

Fcode	Feature	Attributes/Values	Definition
2H010	AQUEDUCT (Cont.)		
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		005 - UNDER CONSTRUCTION 006 - ABANDONED 028 - OPERATIONAL	
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
		Range: > 0...No Upper Limit	Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
	GW1 GAP WIDTH RANGE (1)		Predominant horizontal gap width range (1) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN 001 - <3 002 - >3 AND <=18 003 - >18 AND <= 25 004 - >25 AND <=50 005 - >50 AND <=75 006 - >75 AND <=100 007 - >100 AND <=142 008 - >142	
	GW2 GAP WIDTH RANGE (2)		Predominant horizontal gap width range (2) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN 001 - >18 AND <= 142 002 - > 142 AND <= 1000 003 - > 1000	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
		Range: > 0...No Upper Limit	Increment: 1 Meter Limits: N/A Variance: N/A
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
		Range: 0...No Upper Limit	Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
	HL1 BANK HEIGHT LEFT (1)		Predominant height range (1) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= .5 002 - > .5 AND <= 1.0 003 - > 1.0 AND <= 5.0 004 - > 5.0	
	HL2 BANK HEIGHT LEFT (2)		Predominant height range (2) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= 1.0	

Fcode	Feature	Attributes/Values	Definition
2H010	AQUEDUCT (Cont.)		
	HL2	BANK HEIGHT LEFT (2) (Cont.)	
		002 - > 1.0 AND <= 5.0	
		003 - > 5.0	
	HR1	BANK HEIGHT RIGHT (1)	Predominant height range (1) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= .5	
		002 - > .5 AND <= 1.0	
		003 - > 1.0 AND <= 5.0	
		004 - > 5.0	
	HR2	BANK HEIGHT RIGHT (2)	Predominant height range (2) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 1.0	
		002 - > 1.0 AND <= 5.0	
		003 - > 5.0	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		003 - DRY	Normally retains no water but some may be present during rain or flood.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE	
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN	
		001 - > 1.5 AND <= 5.0	
		002 - > 5.0 AND <= 10.0	
		003 - > 10.0 AND <= 20.0	
		004 - > 20.0 AND <= 40.0	
		005 - > 40.0	
	OWO	OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
		001 - FEATURE CROSSES NAVIGABLE WATER.	Feature crosses over navigable water that is required for access to a port.
		002 - FEATURE CROSSES NON-NAVIGABLE WATER.	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
		003 - NOT APPLICABLE	Feature does not cross over water.
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.

Fcode	Feature	Attributes/Values	Definition
2H010	AQUEDUCT (Cont.)		
	PFH	PREDOMINANT FEATURE HEIGHT (Cont.)	
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
		006 - WATER - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	SL1	SLOPE GRADIENT LEFT (1)	Predominant slope range (1) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SL2	SLOPE GRADIENT LEFT (2)	Predominant slope range (2) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 60 - - - - - - - - - - - - - -	
		002 - > 60 - - - - - - - - - - - - - - -	
	SOC	SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature.
			Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor. Variance: N/A
		Default: 0=Unknown 998=Not applicable Range: 0.1...997.9	
	SR1	SLOPE GRADIENT RIGHT (1)	Predominant slope range (1) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SR2	SLOPE GRADIENT RIGHT (2)	Predominant slope range (2) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 60 - - - - - - - - - - - - - -	
		002 - > 60 - - - - - - - - - - - - - - -	
	TRA	TRAVERSABILITY ATTRIBUTE	Indicates whether the feature is traversable by foot.
		001 - TRAVERSABLE - - - - - - - - - - -	
		002 - NON-TRAVERSABLE - - - - - - - - -	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - -	
		007 - MEAN HIGH WATER - - - - - - - - -	The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
		009 - MEAN HIGH WATER SPRINGS - - - - - -	
		010 - MEAN HIGHER HIGH WATER - - - - - -	The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2H010	AQUEDUCT (Cont.)		
	VDC VERTICAL DATUM CATEGORY (Cont.)		
		024 - MEAN HIGHER HIGH WATER SPRINGS 026 - HIGHEST NORMAL HIGH WATER 028 - HIGHEST HIGH WATER 030 - INDIAN SPRING HIGH WATER 031 - NOT APPLICABLE	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: N/A
		Range: > 0...No Upper Limit	
	WVA WATER VELOCITY AVERAGE		Average water velocity, estimated in meters /second within delineation of feature exclusive of high water due to runoff or low water due to drought.
		000 - UNKNOWN 001 - <= 1.5 002 - > 1.5	
2H020	CANAL		A MAN-MADE OR IMPROVED NATURAL WATERWAY USED FOR TRANSPORTATION. IT IS USUALLY CHARACTERIZED BY RELATIVELY CONSTANT DEPTH, WIDTH, AND WITH STRAIGHTENED AND GRADED BANKS.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2H020	CANAL (Cont.)		
	BMC	BOTTOM MATERIAL COMPOSITION	Predominant material composition of the bottom of a body of water.
		000 - UNKNOWN	
		001 - CLAY AND SILT	
		002 - SILTY SANDS	
		003 - SAND AND GRAVEL	
		004 - GRAVEL AND COBBLE	
		005 - ROCKS AND BOULDERS	
		006 - BEDROCK	
		007 - PAVED	
		008 - PEAT	
	CDA	COVERED DRAINAGE ATTRIBUTE	Condition where an artificial or improved natural drainage way is completely covered over and connects open drainage ways at each end.
		001 - UNCOVERED	
		002 - COVERED	
		003 - NOT APPLICABLE	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DVL	DENSE BANK VEGETATION LEFT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the left bank.
		001 - 1	>50%
		002 - 2	<=50%
	DVR	DENSE BANK VEGETATION RIGHT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the right bank.
		001 - 1	>50%
		002 - 2	<=50%
	DW1	DEPTH OF WATER (1)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (First Range).
		000 - UNKNOWN	
		001 - <= 0.8	
		002 - > 0.8 AND <= 1.6	
		003 - > 1.6 AND <= 2.4	
		004 - > 2.4	
		005 - NOT APPLICABLE	
	DW2	DEPTH OF WATER (2)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (Second Range).
		000 - UNKNOWN	
		001 - <= 1.6	
		002 - > 1.6 AND <= 2.4	
		003 - > 2.4	
		004 - NOT APPLICABLE	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	
		032 - NAVIGABLE	
	GW1	GAP WIDTH RANGE (1)	Predominant horizontal gap width range (1) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN	
		001 - <3	
		002 - >3 AND <=18	
		003 - >18 AND <= 25	
		004 - >25 AND <=50	
		005 - >50 AND <=75	
		006 - >75 AND <=100	
		007 - >100 AND <=142	

Fcode	Feature	Attributes/Values	Definition
2H020	CANAL (Cont.)		
	GW1 GAP WIDTH RANGE (1) (Cont.)		
		008 - >142	
	GW2 GAP WIDTH RANGE (2)		Predominant horizontal gap width range (2) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN 001 - >18 AND <= 142 002 - > 142 AND <= 1000 003 - > 1000	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum. Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	HL1 BANK HEIGHT LEFT (1)		Predominant height range (1) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= .5 002 - > .5 AND <= 1.0 003 - > 1.0 AND <= 5.0 004 - > 5.0	
	HL2 BANK HEIGHT LEFT (2)		Predominant height range (2) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= 1.0 002 - > 1.0 AND <= 5.0 003 - > 5.0	
	HR1 BANK HEIGHT RIGHT (1)		Predominant height range (1) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= .5 002 - > .5 AND <= 1.0 003 - > 1.0 AND <= 5.0 004 - > 5.0	
	HR2 BANK HEIGHT RIGHT (2)		Predominant height range (2) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= 1.0 002 - > 1.0 AND <= 5.0 003 - > 5.0	
	HSA HYDROGRAPHIC SEASONAL ATTRIBUTE		Restriction due to climate.
		001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE 002 - SUBJECT TO ICE	
	HYC HYDROGRAPHIC CATEGORY		Identifies the annual water content of the feature.
		003 - DRY	Contains no water

Fcode	Feature	Attributes/Values	Definition
2H020	CANAL (Cont.)		
	HYC	HYDROGRAPHIC CATEGORY (Cont.)	
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE	
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RPA	REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
		001 - ACCESS REQUIRED	
		002 - ACCESS NOT REQUIRED	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER	Surface material is a water area or a well-defined salt or dry lake bed
	SL1	SLOPE GRADIENT LEFT (1)	Predominant slope range (1) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 30	
		002 - > 30 AND <= 45	
		003 - > 45 AND <= 60	
		004 - > 60	
	SL2	SLOPE GRADIENT LEFT (2)	Predominant slope range (2) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 60	
		002 - > 60	
	SLT	SHORELINE TYPE CATEGORY	The physical characteristic of the shoreline area.
		006 - MANGROVE /NIPA	
		008 - MARSH, SWAMP	
		010 - ROCKY	
		011 - RUBBLE	
		013 - SANDY	

Fcode	Feature	Attributes/Values	Definition
2H020	CANAL (Cont.)		
	SLT SHORELINE TYPE CATEGORY (Cont.)		
		014 - STONY, SHINGLY	
		015 - OTHER	
	SR1 SLOPE GRADIENT RIGHT (1)		Predominant slope range (1) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 30	
		002 - > 30 AND <= 45	
		003 - > 45 AND <= 60	
		004 - > 60	
	SR2 SLOPE GRADIENT RIGHT (2)		Predominant slope range (2) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 60	
		002 - > 60	
	VDC VERTICAL DATUM CATEGORY		Vertical datum to which the feature is referenced.
		000 - UNKNOWN	
		004 - INDIAN SPRING LOW WATER	
		011 - MEAN LOW WATER	
		013 - MEAN LOW WATER SPRINGS	
		014 - MEAN LOWER LOW WATER	
		015 - MEAN SEA LEVEL	
		023 - OTHER	
		025 - MEAN LOWER LOW WATER SPRINGS	
		027 - LOWEST NORMAL LOW WATER	
		029 - LOWEST LOW WATER	
	VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: N/A
		Range: > 0...No Upper Limit	
	WVA WATER VELOCITY AVERAGE		Average water velocity, estimated in meters /second within delineation of feature exclusive of high water due to runoff or low water due to drought.
		000 - UNKNOWN	
		001 - <= 1.5	
		002 - > 1.5	

2H030 DITCH — A CHANNEL CONSTRUCTED FOR THE PURPOSE OF IRRIGATION OR DRAINAGE.

Fcode	Feature	Attributes/Values	Definition
2H030	DITCH (Cont.)		
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate.
			Increment: N/A Limits: N/A Variance: N/A
		Range: -511...0	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: N/A Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BMC	BOTTOM MATERIAL COMPOSITION	Predominant material composition of the bottom of a body of water.
		000 - UNKNOWN	
		001 - CLAY AND SILT	
		002 - SILTY SANDS	
		003 - SAND AND GRAVEL	
		004 - GRAVEL AND COBBLE	
		005 - ROCKS AND BOULDERS	
		006 - BEDROCK	
		007 - PAVED	
		008 - PEAT	
	CDA	COVERED DRAINAGE ATTRIBUTE	Condition where an artificial or improved natural drainage way is completely covered over and connects open drainage ways at each end.
		001 - UNCOVERED	
		002 - COVERED	
		003 - NOT APPLICABLE	
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature.
			Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DVL	DENSE BANK VEGETATION LEFT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the left bank.
		001 - 1	>50%
		002 - 2	<=50%
	DVR	DENSE BANK VEGETATION RIGHT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the right bank.
		001 - 1	>50%
		002 - 2	<=50%
	DW1	DEPTH OF WATER (1)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (First Range).
		000 - UNKNOWN	
		001 - <= 0.8	
		002 - > 0.8 AND <= 1.6	
		003 - > 1.6 AND <= 2.4	
		004 - > 2.4	

Fcode	Feature	Attributes/Values	Definition
2H030	DITCH (Cont.)		
	DW1 DEPTH OF WATER (1) (Cont.)		
		005 - NOT APPLICABLE	
	DW2 DEPTH OF WATER (2)		Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (Second Range).
		000 - UNKNOWN	
		001 - <= 1.6	
		002 - > 1.6 AND <= 2.4	
		003 - > 2.4	
		004 - NOT APPLICABLE	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		031 - ISOLATED	
		042 - NOT ISOLATED	
	GW1 GAP WIDTH RANGE (1)		Predominant horizontal gap width range (1) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN	
		001 - <3	
		002 - >3 AND <=18	
		003 - >18 AND <= 25	
		004 - >25 AND <=50	
		005 - >50 AND <=75	
		006 - >75 AND <=100	
		007 - >100 AND <=142	
		008 - >142	
	GW2 GAP WIDTH RANGE (2)		Predominant horizontal gap width range (2) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN	
		001 - >18 AND <= 142	
		002 - > 142 AND <= 1000	
		003 - > 1000	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	HL1 BANK HEIGHT LEFT (1)		Predominant height range (1) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= .5	
		002 - > .5 AND <= 1.0	
		003 - > 1.0 AND <= 5.0	
		004 - > 5.0	
	HL2 BANK HEIGHT LEFT (2)		Predominant height range (2) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= 1.0	
		002 - > 1.0 AND <= 5.0	
		003 - > 5.0	
	HR1 BANK HEIGHT RIGHT (1)		Predominant height range (1) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN	
		001 - <= .5	
		002 - > .5 AND <= 1.0	
		003 - > 1.0 AND <= 5.0	

Fcode	Feature	Attributes/Values	Definition
2H030	DITCH (Cont.)		
	HR1	BANK HEIGHT RIGHT (1) (Cont.)	
		004 - > 5.0 - - - - - - - - - - - - - - -	
	HR2	BANK HEIGHT RIGHT (2)	Predominant height range (2) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - <= 1.0 - - - - - - - - - - - - - - -	
		002 - > 1.0 AND <= 5.0 - - - - - - - - - -	
		003 - > 5.0 - - - - - - - - - - - - - - -	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - -	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT - - - - - - - -	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LNC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE - - - - - - - -	
		003 - ON GROUND SURFACE - - - - - - - - -	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - - -	>= 51% of land, soil or ground surface
	SL1	SLOPE GRADIENT LEFT (1)	Predominant slope range (1) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SL2	SLOPE GRADIENT LEFT (2)	Predominant slope range (2) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - <= 60 - - - - - - - - - - - - - - -	
		002 - > 60 - - - - - - - - - - - - - - -	
	SR1	SLOPE GRADIENT RIGHT (1)	Predominant slope range (1) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SR2	SLOPE GRADIENT RIGHT (2)	Predominant slope range (2) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.

Fcode	Feature	Attributes/Values	Definition
2H030	DITCH (Cont.)		
	SR2 SLOPE GRADIENT RIGHT (2) (Cont.)		
		000 - UNKNOWN 001 - <= 60 002 - > 60	
	WGP WIDTH WITH GREATER PRECISION	Range: > 0...No Upper Limit	A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: Documented or field checked data is recorded as given.
	WID WIDTH	Range: > 0...No Upper Limit	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: N/A
	WVA WATER VELOCITY AVERAGE	000 - UNKNOWN 001 - <= 1.5 002 - > 1.5	Average water velocity, estimated in meters /second within delineation of feature exclusive of high water due to runoff or low water due to drought.
2H040	FILTRATION /AERATION BEDS		AN AREA CONTAINING LAYERS OF MATERIAL USED TO FILTER OR AERATE WATER.
	1HT DERIVED HEIGHT	000 - 0	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
	ARA AREA COVERAGE ATTRIBUTE	Range: > 0...No Upper Limit	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
	HGT HEIGHT ABOVE SURFACE LEVEL	Range: 0...No Upper Limit	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
	LEN LENGTH /DIAMETER	Range: > 0...No Upper Limit	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
2H040	FILTRATION /AERATION BEDS (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER	Surface material is a water area or a well-defined salt or dry lake bed
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2H050	FISH HATCHERY		AN ENCLOSURE OF WATER USED FOR THE BREEDING AND/OR RAISING OF FISH.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RFA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2H050	FISH HATCHERY (Cont.)		
	HGT HEIGHT ABOVE SURFACE LEVEL (Cont.)		Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2H060	FLUME		AN OPEN, INCLINED CHANNEL WHICH CARRIES WATER FOR USE IN SUCH OPERATIONS AS MINING OR LOGGING.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.

Fcode	Feature	Attributes/Values	Definition
2H060	FLUME (Cont.)		
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	LOC LOCATION /ORIGIN CATEGORY		Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE - - - - - - - -	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: N/A
		Range: > 0...No Upper Limit	
2H070	FORD		LOCATION IN A BODY OF WATER WHERE THE PHYSICAL CHARACTERISTICS OF THE CURRENT, BOTTOM MATERIALS, AND APPROACHES FOR A ROAD, TRAIL, OR CART TRACK PERMITTHE PASSAGE OF PERSONNEL AND/OR VEHICLES.
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2H070	FORD (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Straight line bank to bank measurement from initial to terminal point of associated transportation feature. Variance: N/A
		Range: > 0...No Upper Limit	
	NOF NUMBER OF FORDS		Number of fords closely aggregated together for portrayal with a single ford symbol.
			Increment: 1 ford Limits: Fords must be within 250 meters of each other. Variance: N/A
		Range: > 0...No Upper Limit	
2H075	INLAND SHORELINE		THE LAND-WATER BOUNDARY FOR ALL INLAND HYDROGRAPHIC FEATURES HAVING SHORELINES.
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
	AHC ASSOCIATED HYDROGRAPHIC CATEGORY		The annual water content of the associated hydrographic feature as defined by the Inland Shoreline.
		001 - PERENNIAL - - - - - - - - - - - - -	Contains water six months or more per year.
		002 - INTERMITTENT - - - - - - - - - - - -	Contains water less than six months per year.
		003 - EPHEMERAL - - - - - - - - - - - - -	Dry; water may be present during rain or flood.
	HOC HYDROGRAPHIC ORIGIN CATEGORY		Origin of the feature.
		001 - CONTROLLED - - - - - - - - - - - - -	A lake or pond in which the water level is maintained by the presence of a dam.
		005 - NATURAL - - - - - - - - - - - - -	
	SLT SHORELINE TYPE CATEGORY		The physical characteristic of the shoreline area.
		006 - MANGROVE /NIPA - - - - - - - - - -	
		008 - MARSH, SWAMP - - - - - - - - - - -	
		010 - ROCKY - - - - - - - - - - - - - -	
		011 - RUBBLE - - - - - - - - - - - - - -	
		013 - SANDY - - - - - - - - - - - - - -	
		014 - STONY, SHINGLY - - - - - - - - - -	
		015 - OTHER - - - - - - - - - - - - - -	
2H080	LAKE /POND		AN INLAND BODY OF WATER IN WHICH NO APPRECIABLE CURRENT OR FLOW PATTERN IS EVIDENT, AND WHICH HAS A PREDOMINANTLY NATURAL SHORELINE..
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		032 - NAVIGABLE - - - - - - - - - - - -	
		035 - OTHER - - - - - - - - - - - - - -	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2HD80	LAKE /POND (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	HSA	HYDROGRAPHIC SEASONAL ATTRIBUTE	Restriction due to climate.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE - - - - - - - - - - - - -	
		002 - SUBJECT TO ICE - - - - - - - - - -	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - DRY - - - - - - - - - - - - - - -	Normally retains no water but some may be present during rain or flood.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - -	Contains water less than six months per year.
		008 - PERENNIAL /PERMANENT - - - - - - -	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RPA	REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
		001 - ACCESS REQUIRED - - - - - - - - -	
		002 - ACCESS NOT REQUIRED - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	SEA	SEA STATE	A property of large bodies of water characterized by tidal conditions, swells, or high heavy wave action. The condition can apply to both fresh and salt water.
		001 - NON-SEA STATE - - - - - - - - - -	
		002 - SEA STATE - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WSC	WATER SALINITY CATEGORY	An evaluation of the salinity of the water.
		000 - UNKNOWN - - - - - - - - - - - - -	
		002 - FRESH - - - - - - - - - - - - - -	Maximum chlorides <= 600 mg/L Maximum sulfates <= 400 mg/L Maximum Total Dissolved Solids (TDS) <= 1500 mg/L
		003 - BRACKISH - - - - - - - - - - - - -	Total Dissolved Solids > 1500 mg/L to <= 15,000 mg/L Specific chemical constituents are not considered.
		004 - SALT - - - - - - - - - - - - - - -	Total Dissolved Solids > 15,000 mg/L

Fcode	Feature	Attributes/Values	Definition
2H080	LAKE /POND (Cont.)		
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
2H090	LAND SUBJECT TO INUNDATION		AN AREA PERIODICALLY COVERED BY FLOOD WATER.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HOC HYDROGRAPHIC ORIGIN CATEGORY		Origin of the feature.
		001 - CONTROLLED - - - - - - - - - - - -	A lake or pond in which the water level is maintained by the presence of a dam.
		005 - NATURAL - - - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2H095	MISCELLANEOUS SURFACE DRAINAGE FEATURE		A SURFACE DRAINAGE FEATURE OF SIGNIFICANCE TO MILITARY OPERATIONS THAT IS NOT IDENTIFIED BY ANY OTHER FACS CODE.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: If linear feature, measure feature centerline distance.
		Range: > 0...No Upper Limit	
	MFT MISCELLANEOUS FEATURE TYPE		Defines the type of miscellaneous surface drainage or obstacle feature encountered.

Fcode	Feature	Attributes/Values	Definition
2H095	MISCELLANEOUS SURFACE DRAINAGE FEATURE (Cont.)		
	MFT	MISCELLANEOUS FEATURE TYPE (Cont.)	
		000 - UNKNOWN	
		007 - REPRESENTATIVE PATTERN AREA	Cartographically crowded areas where the sheer density and extent of the features prevents the coding of small segments.
		008 - GENERAL SURFACE DRAINAGE FEATURE	
		011 - GENERAL LINEAL OBSTACLE	
		012 - AREA OF ENMESHING CHANNELS	An area of considerable size, subject to flash flooding, where the inter-lacing channels of one or more washes/wadies/arroyos fan out over a large area in a pattern of tangled interwining channels.
		013 - TIDAL FLATS	A flat or nearly flat, barren or slightly marshy area formed through deposition caused by the alternate rise and fall of the tide.
	MTS	MISCELLANEOUS TEXTUAL DESCRIPTION	Textual description of the feature.
		000 - ANY DESCRIPTION	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: N/A Variance: N/A
		Default: 0=Not Applicable Range: > 0...No Upper Limit	

2H100	MOAT		A TRENCH, USUALLY FILLED WITH WATER, THAT SURROUNDS A TRACT OF LAND.
	1OD	DERIVED OBSTACLE DEPTH CATEGORY	Coded value indicating predominant obstacle depth range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFD	
		002 - > 5.0 AND <= 10.0 PFD	
		003 - > 10.0 AND <= 20.0 PFD	
		004 - > 20.0 AND <= 40.0 PFD	
		005 - > 40.0 PFD	
		006 - NOT APPLICABLE	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		003 - DRY	
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN	
		001 - > 1.5 AND <= 5.0	
		002 - > 5.0 AND <= 10.0	
		003 - > 10.0 AND <= 20.0	
		004 - > 20.0 AND <= 40.0	
		005 - > 40.0	
	PFD	PREDOMINANT FEATURE DEPTH	Predominant depth within delineation of feature. Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..

Fcode	Feature	Attributes/Values	Definition
2H100	MOAT (Cont.)		
	SGC SLOPE /GRADIENT CATEGORY (Cont.)		Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
2H110	PENSTOCK		. A PIPELINE OR CHANNEL USED BY HYDROELECTRIC PLANTS TO TRANSPORT WATER BY GRAVITY OR UNDER PRESSURE.
	LHT DERIVED HEIGHT		For computation only, LHT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	LWD DERIVED WIDTH		For computation only, LWD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measurement based upon the tallest supporting structure within the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
2H110	PENSTOCK (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE	
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	RPA	REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
		001 - ACCESS REQUIRED	
		002 - ACCESS NOT REQUIRED	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
2H120	RAPIDS		A PLACE IN A STREAM OR RIVER WHERE THE CURRENT IS SWIFT AND THE SURFACE IS USUALLY BROKEN BY BOULDERS AND ROCKS.
	IWO	INLAND WATER OBSTRUCTION	An indicator that a feature in an inland water body is an obstruction to vessel movement
		001 - OBSTRUCTION	
		002 - NOT AN OBSTRUCTION	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured along the downstream extent of the rapids. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2H130	RESERVOIR		A MAN-MADE OPEN ENCLOSURE OR AREA WITH CONSTRUCTED SHORELINE FORMED FOR THE STORAGE OF WATER. FOR WATER BACKED UP BEHIND A DAM, BUT HAVING A NATURAL SHORELINE, USE 2H080 LAKE/POND.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	HSA	HYDROGRAPHIC SEASONAL ATTRIBUTE	Restriction due to climate.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE - - - - - - - - - - - - - - - -	
		002 - SUBJECT TO ICE - - - - - - - - - - -	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - - -	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT - - - - - - - -	Contains flowing or standing water six months or more per year.
		009 - OTHER - - - - - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
2H130	RESERVOIR (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
2H140	RIVER /STREAM		A NATURAL FLOWING WATERCOURSE.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ACC ACCURACY CATEGORY		Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BMC BOTTOM MATERIAL COMPOSITION		Predominant material composition of the bottom of a body of water.
		000 - UNKNOWN 001 - CLAY AND SILT 002 - SILTY SANDS 003 - SAND AND GRAVEL 004 - GRAVEL AND COBBLE 005 - ROCKS AND BOULDERS 006 - BEDROCK 007 - PAVED 008 - PEAT	
	CDA COVERED DRAINAGE ATTRIBUTE		Condition where an artificial or improved natural drainage way is completely covered over and connects open drainage ways at each end.
		001 - UNCOVERED 002 - COVERED 003 - NOT APPLICABLE	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DVL DENSE BANK VEGETATION LEFT		Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the left bank.

Fcode	Feature	Attributes/Values	Definition
2H140	RIVER /STREAM (Cont.)		
	DVL DENSE BANK VEGETATION LEFT (Cont.)		
		001 - 1 - - - - - - - - - - - - - - - -	>50%
		002 - 2 - - - - - - - - - - - - - - - -	<=50%
	DVR DENSE BANK VEGETATION RIGHT		Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the right bank.
		001 - 1 - - - - - - - - - - - - - - - -	>50%
		002 - 2 - - - - - - - - - - - - - - - -	<=50%
	DW1 DEPTH OF WATER (1)		Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (First Range).
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 0.8 - - - - - - - - - - - - - -	
		002 - > 0.8 AND <= 1.6 - - - - - - - - -	
		003 - > 1.6 AND <= 2.4 - - - - - - - - -	
		004 - > 2.4 - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - -	
	DW2 DEPTH OF WATER (2)		Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (Second Range).
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 1.6 - - - - - - - - - - - - - -	
		002 - > 1.6 AND <= 2.4 - - - - - - - - -	
		003 - > 2.4 - - - - - - - - - - - - - -	
		004 - NOT APPLICABLE - - - - - - - - - -	
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		032 - NAVIGABLE - - - - - - - - - - - -	
		035 - OTHER - - - - - - - - - - - - - -	
	GW1 GAP WIDTH RANGE (1)		Predominant horizontal gap width range (1) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <3 - - - - - - - - - - - - - - - -	
		002 - >3 AND <=10 - - - - - - - - - - -	
		003 - >10 AND <= 25 - - - - - - - - - -	
		004 - >25 AND <=50 - - - - - - - - - - -	
		005 - >50 AND <=75 - - - - - - - - - - -	
		006 - >75 AND <=100 - - - - - - - - - -	
		007 - >100 AND <=142 - - - - - - - - - -	
		008 - >142 - - - - - - - - - - - - - - -	
	GW2 GAP WIDTH RANGE (2)		Predominant horizontal gap width range (2) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - >10 AND <= 142 - - - - - - - - - -	
		002 - > 142 AND <= 1000 - - - - - - - - -	
		003 - > 1000 - - - - - - - - - - - - - -	
	HDP HYDROGRAPHIC DEPTH		The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	HFC HYDROGRAPHIC FORM CATEGORY		Form or configuration of the feature.
		001 - CHANNELIZED STREAM - - - - - - - -	Natural stream channel has been altered by man-made construction or artificial channelization.
		008 - MEDIAL CHANNEL - - - - - - - - - -	
		014 - BRAIDED - - - - - - - - - - - - -	
		016 - DISSIPATING - - - - - - - - - - -	
		018 - OTHER - - - - - - - - - - - - - -	
		019 - GORGE - - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2H140	RIVER /STREAM (Cont.)		
	HFC	HYDROGRAPHIC FORM CATEGORY (Cont.)	
		020 - ANASTOMOSING	Section of a perennial stream containing numerous interlacing channels with stabilized islands.
		021 - WASH/WADI/ARROYO	A steep sided, dry, flat floored, watercourse (gulch or gully) of an ephemeral/intermittent stream, mostly found in arid areas. Subject to flash flooding after brief but heavy rainfall over steep upland areas.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	HL1	BANK HEIGHT LEFT (1)	Predominant height range (1) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= .5 002 - > .5 AND <= 1.0 003 - > 1.0 AND <= 5.0 004 - > 5.0	
	HL2	BANK HEIGHT LEFT (2)	Predominant height range (2) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= 1.0 002 - > 1.0 AND <= 5.0 003 - > 5.0	
	HR1	BANK HEIGHT RIGHT (1)	Predominant height range (1) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= .5 002 - > .5 AND <= 1.0 003 - > 1.0 AND <= 5.0 004 - > 5.0	
	HR2	BANK HEIGHT RIGHT (2)	Predominant height range (2) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN 001 - <= 1.0 002 - > 1.0 AND <= 5.0 003 - > 5.0	
	HSA	HYDROGRAPHIC SEASONAL ATTRIBUTE	Restriction due to climate.
		000 - UNKNOWN 001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE 002 - SUBJECT TO ICE	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		003 - DRY	Normally retains no water but some may be present during rain or flood.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured along the continuous downstream flow, from the point of highest elevation to the lowest elevation encountered. Variance: Connecting tributaries shall be considered as separate features.
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2H140	RIVER /STREAM (Cont.)		
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		001 - BELOW GROUND SURFACE - - - - - - -	
		003 - ON GROUND SURFACE - - - - - - - -	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RPA	REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
		001 - ACCESS REQUIRED - - - - - - - - -	
		002 - ACCESS NOT REQUIRED - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	SL1	SLOPE GRADIENT LEFT (1)	Predominant slope range (1) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SL2	SLOPE GRADIENT LEFT (2)	Predominant slope range (2) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 60 - - - - - - - - - - - - - -	
		002 - > 60 - - - - - - - - - - - - - - -	
	SLT	SHORELINE TYPE CATEGORY	The physical characteristic of the shoreline area.
		006 - MANGROVE /NIPA - - - - - - - - - -	
		008 - MARSH, SWAMP - - - - - - - - - - -	
		010 - ROCKY - - - - - - - - - - - - - - -	
		011 - RUBBLE - - - - - - - - - - - - - -	
		013 - SANDY - - - - - - - - - - - - - - -	
		014 - STONY, SHINGLY - - - - - - - - - -	
		015 - OTHER - - - - - - - - - - - - - - -	
	SR1	SLOPE GRADIENT RIGHT (1)	Predominant slope range (1) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 30 - - - - - - - - - - - - - -	
		002 - > 30 AND <= 45 - - - - - - - - - -	
		003 - > 45 AND <= 60 - - - - - - - - - -	
		004 - > 60 - - - - - - - - - - - - - - -	
	SR2	SLOPE GRADIENT RIGHT (2)	Predominant slope range (2) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - <= 60 - - - - - - - - - - - - - -	
		002 - > 60 - - - - - - - - - - - - - - -	
	TID	TIDAL /NON-TIDAL CATEGORY	Identifies whether a feature is affected by tidal water.

Fcode	Feature	Attributes/Values	Definition
2H140	RIVER /STREAM (Cont.)		
	TID TIDAL /NON-TIDAL CATEGORY (Cont.)		
		001 - NON-TIDAL	
		002 - TIDAL /TIDAL FLUCTUATING	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. For covered drainage, it is the least maximum horizontal interior distance; if rounded, use diameter. Variance: N/A
		Range: > 0...No Upper Limit	
	WVA WATER VELOCITY AVERAGE		Average water velocity, estimated in meters /second within delineation of feature exclusive of high water due to runoff or low water due to drought.
		000 - UNKNOWN	
		001 - <= 1.5	
		002 - > 1.5	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
2H145	RIVER OR STREAM VANISHING POINT		POINT AT WHICH A RIVER OR STREAM PASSES INTO THE GROUND.
	DOF DIRECTION OF FLOW		Azimuth of movement or direction of the flow.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the direction of the flow. Variance: N/A
		Range: 0...359	
	HFC HYDROGRAPHIC FORM CATEGORY		Form or configuration of the feature.
		002 - DISAPPEARING	Watercourse flows underground.
		016 - DISSIPATING	Watercourse disperses or diffuses into the ground.
2H150	SALT EVAPORATOR		SHALLOW POOLS USED FOR THE NATURAL EVAPORATION OF WATER FOR THE COLLECTION OF SALT.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	

Fcode	Feature	Attributes/Values	Definition
2H150	SALT EVAPORATOR (Cont.)		
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	HOC	HYDROGRAPHIC ORIGIN CATEGORY	Origin of the feature.
		004 - MAN-MADE - - - - - - - - - - - - - -	Salt evaporators.
		005 - NATURAL - - - - - - - - - - - - - -	Salt flats or natural beds.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

2H160	SABKHA		A FLAT, SALT-ENCRUSTED, SAND OR CLAY FILLED, DEPRESSION IN ARID/ SEMIARID AREAS WITH A HIGH WATER TABLE. SALINE WATER AT OR JUST BELOW THE SURFACE (1 TO 2 METERS) KEEPS THE SUBSOILS MOIST TO WET AND IS PERIODICALLY RECHARGED...
	AAA	SABKHA DEFINITION CONTINUED	...BY COASTAL FLOODING, SURFACE OR SUBSURFACE RUNOFF ACCUMULATION, CAPILLARY RISE, EVAPORATION, OR TIDAL ACTION. HALOPHYTIC VEGETATION GROWING THROUGH THE CRUST MAY BE PRESENT.
		000 - NO ATTRIBUTE - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
2H160	SABKHA (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2H170	SPRING		A NATURAL OUTFLOW OF WATER FROM BELOW THE GROUND SURFACE.
	DOF	DIRECTION OF FLOW	Azimuth of movement or direction of the flow.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the direction of the flow. Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		003 - DRY - - - - - - - - - - - - - - -	Contains no water
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - -	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT - - - - - - -	Contains flowing or standing water six months or more per year.
	SCC	SPRING /WELL CHARACTERISTIC CATEGORY	Type of available water.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - ALKALINE - - - - - - - - - - - - -	
		004 - MINERAL - - - - - - - - - - - - -	Undrinkable mineral content.
		009 - FRESHWATER - - - - - - - - - - - -	Potable water content
	WFT	WELL FEATURE TYPE	Hydrographic features which are symbolized as wells, are usually dug or drilled, but could be natural.
		002 - WALLED-IN SPRING - - - - - - - - -	
		006 - NON-WALLED SPRING - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2H180	WATERFALL		A VERTICAL OR NEARLY VERTICAL DESCENT OF A STREAM.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Pcode	Feature	Attributes/Values	Definition
2H180	WATERFALL (Cont.)		
	1HT DERIVED HEIGHT (Cont.)		
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		001 - 1 - - - - - - - - - - - - - - - -	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
		004 - LEFT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IWO INLAND WATER OBSTRUCTION		An indicator that a feature in an inland water body is an obstruction to vessel movement
		001 - OBSTRUCTION - - - - - - - - - - -	
		002 - NOT AN OBSTRUCTION - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured across the stream in the bank to bank direction. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
2I010	CISTERN		A CONTAINER USED FOR COLLECTION OR STORAGE OF RAIN WATER.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.

Fcode	Feature	Attributes/Values	Definition
2I010	CISTERN (Cont.)		
	AOO	ANGLE OF ORIENTATION (Cont.)	
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		031 - ISOLATED - - - - - - - - - - - - - 042 - NOT ISOLATED - - - - - - - - - - - - -	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - - -	
2I020	DAM		A MAN-MADE BARRIER ACROSS A WATERCOURSE USED TO IMPOUND WATER OR TO CONTROLITS FLOW.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOD	ANGLE OF DAM	The angle measured clockwise from true north around to the downstream face of the dam.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Range: 0...359	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2I020	DAM (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DFT	DAM FACE TYPE	Type of face of a dam.
		001 - VERTICAL - - - - - - - - - - - -	Dam face is either vertical (90 degrees) or more when measured from a plane parallel to the top is rotated 90 degrees to point across the axis of the feature.
		002 - SLOPED - - - - - - - - - - - - -	Dam face is less than 90 degrees when measured from a plane parallel to the top that has been rotated 90 degrees to face up and downstream across the axis of the feature.
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
		004 - LEFT UNI - - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	EDC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - -	
		010 - PROPOSED - - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the top or shallowest part of the feature. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	HGP	HEIGHT WITH GREATER PRECISION	The vertical distance from the ground or water level to the top of the feature.
			Increment: 0.1 Meter Limits: Measured from the lowest point on the downslope or downstream side (at ground or water level) to the lowest point along the crest of the dam. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	HGS	HEIGHT OF SPILLWAY	Vertical distance above ground or water level on the upstream side of the dam.
			Increment: 1 Meter Limits: Measured to the top surface of the spillway, or dam, if no spillway exists. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2I020	DAM (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point on downstream side (at ground or at water level) to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	IWO	INLAND WATER OBSTRUCTION	An indicator that a feature in an inland water body is an obstruction to vessel movement
		001 - OBSTRUCTION	
		002 - NOT AN OBSTRUCTION	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		017 - COMPOSITION	Combination of stone and earth.
		018 - CONCRETE	
		023 - EARTHEN	
		048 - MASONRY	Stone or Brick, held together with mortar.
		083 - STEEL	
		097 - WOOD	
		102 - OTHER	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
		005 - EARTHEN WORKS	>= 51% of land, soil or ground surface
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD	
		003 - RAILROAD	
		004 - ROAD	
		021 - NOT APPLICABLE	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER	
		073 - FLOOD /STORM BARRAGE	
		086 - FLOOD CONTROL AND/OR RATE MEASUREMENT	A small artificial barrier across a stream used to raise the water level or divert its flow into a desired channel. Normally the water will either over flow barrier or flow through notch to regulate and/or measure the water flow.

Fcode	Feature	Attributes/Values	Definition
2I020	DAM (Cont.)		
	WCP	WIDTH OF CREST WITH GREATER PRECISION	Width of the dam at its crest, measured perpendicular to the centerline of its length along the crest. Increment: 0.1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: N/A Range: 0...No Upper Limit
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes; for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: Documented or field checked data is recorded as given. Range: > 0...No Upper Limit
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	WOC	WIDTH OF CREST	Width of dam at its crest, measured perpendicular to the centerline of its length along the crest. Increment: 1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: N/A Range: 0...No Upper Limit
2I030	LOCK		AN ENCLOSURE, WITH A PAIR OF GATES CONTROLLING THE WATER LEVEL, USED FOR RAISING OR LOWERING VESSELS AS THEY PASS FROM ONE WATER LEVEL TO ANOTHER.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A Default: 63 Range: 0...31
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A Range: 0...511
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A Range: 0...127
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A Range: 0...127

Fcode	Feature	Attributes/Values	Definition
2I030	LOCK (Cont.)		
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		005 - UNDER CONSTRUCTION - - - - - - - - - 028 - OPERATIONAL - - - - - - - - - -	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: From lock to water or ground level. Variance: Take highest section of lock and lowest water or ground level
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 0.1 Meter Limits: Measured along the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2I030	LOCK (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN - - - - - - - - - - - - -	
		017 - COMPOSITION - - - - - - - - - - - -	Combination of stone and earth.
		018 - CONCRETE - - - - - - - - - - - - -	
		048 - MASONRY - - - - - - - - - - - - -	Stone or Brick, held together with mortar.
		083 - STEEL - - - - - - - - - - - - - -	
		086 - STONE - - - - - - - - - - - - - -	
		097 - WOOD - - - - - - - - - - - - - - -	
		102 - OTHER - - - - - - - - - - - - - - -	Permanent (Surface Type Unknown)
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RPA	REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
		001 - ACCESS REQUIRED - - - - - - - - -	
		002 - ACCESS NOT REQUIRED - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/ concrete and < 40% metal
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes; for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2I040	SLUICE GATE		A GATE, NOT ASSOCIATED WITH A DAM, USED TO REGULATE THE FLOW OR LEVEL OF WATER.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - -	
	TID	TIDAL /NON-TIDAL CATEGORY	Identifies whether a feature is affected by tidal water.
		001 - NON-TIDAL - - - - - - - - - - - -	
		002 - TIDAL /TIDAL FLUCTUATING - - - - -	

Fcode	Feature	Attributes/Values	Definition
2I050	WATER INTAKE TOWER		A TOWER-LIKE STRUCTURE ASSOCIATED WITH A DAM OR WATER SOURCE AND USED FOR THE INTAKE OF WATER.
	1AO DERIVED ANGLE OF ORIENTATION CODE	Default: 63 Range: 0...31	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
	1HT DERIVED HEIGHT	Range: 0...511	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1LN DERIVED LENGTH	Range: 0...127	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	1WD DERIVED WIDTH	Range: 0...127	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
	AOO ANGLE OF ORIENTATION	Default: 360 Range: 0...179	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
	COE CERTAINTY OF EXISTENCE	001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	Indicates knowledge of the feature's existence.
	EOC EMBEDDED OBSTRUCTION CODE	000 - 0 - - - - - - - - - - - - - - - - 001 - 1 - - - - - - - - - - - - - - - - 002 - 2 - - - - - - - - - - - - - - - -	Predominant background surface surrounding a feature within a distance of 457 meters. Open = Largest percentage of area is not covered by trees or man-made structures. Trees = Largest percentage of area is covered by trees of any height. Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT	Range: > 0...No Upper Limit	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
	HAC HEIGHTING ACCURACY	Range: > 0...No Upper Limit	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2I050	WATER INTAKE TOWER (Cont.)		
	HGT HEIGHT ABOVE SURFACE LEVEL (Cont.)		Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
2J020	GLACIAL MORAINE		AN ACCUMULATION OF SOIL AND STONE DEBRIS DEPOSITED BY AN EXISTING GLACIER.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2J020	GLACIAL MORAINE (Cont.)		
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J030	GLACIER		A LARGE MASS OF SNOW AND ICE SLOWLY ADVANCING OR RECEEDING ALONG A SLOPE OR VALLEY FROM ABOVE THE SNOWLINE.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J040	ICE CLIFF		THE VERTICAL FACE OF A GLACIER OR ICE SHELF.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2J040	ICE CLIFF (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
2J060	ICE PEAK, NUNATAK		ICE PEAK: A ROCKY PEAK THAT IS PERPETUALLY COVERED WITH SNOW OR ICE AND PROJECTS ABOVE A SURROUNDING ICE FIELD. NUNATAK: A BARE ROCKY PEAK PROJECTING ABOVE A SURROUNDING ICE FIELD.
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2J060	ICE PEAK, NUNATAK (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		066 - ROCK 098 - SNOW /ICE	Exposed bedrock.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J065	ICE SHELF		A SHEET OF THICK ICE, WITH LEVEL OR UNDULATING SURFACE, ATTACHED TO THE LAND BUT MOST MOSTLY AFLOAT WHICH IS BOUNDED ON THE SEAWARD SIDE BY AN ICE CLIFF (2J040).
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE 002 - APPROXIMATE	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
			Increment: 1 Year Limits: Date (year) of report or activity. Variance: N/A
		Range: 1970...2100	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
2J065	ICE SHELF (Cont.)		
	HGT HEIGHT ABOVE SURFACE LEVEL (Cont.)		Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J070	PACK ICE		AN AREA OF ICE FORMED BY THE DRIFTING AND CRUSHING TOGETHER OF FLOATING PIECES OF SEA ICE, AND COVERING GREATER THAN 1/8 (12 PERCENT) OF THE WATER SURFACE.
	1HT DERIVED HEIGHT		For computation only. 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	HSA HYDROGRAPHIC SEASONAL ATTRIBUTE		Restriction due to climate.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		003 - PERMANENT ICE - - - - - - - - - - -	
		004 - SEASONAL LIMIT - JAN. - - - - - - -	
		005 - SEASONAL LIMIT - FEB. - - - - - - -	
		006 - SEASONAL LIMIT - MAR. - - - - - - -	
		007 - SEASONAL LIMIT - APR. - - - - - - -	
		008 - SEASONAL LIMIT - MAY - - - - - - -	
		009 - SEASONAL LIMIT - JUN. - - - - - - -	
		010 - SEASONAL LIMIT - JUL. - - - - - - -	
		011 - SEASONAL LIMIT - AUG. - - - - - - -	
		012 - SEASONAL LIMIT - SEP. - - - - - - -	
		013 - SEASONAL LIMIT - OCT. - - - - - - -	
		014 - SEASONAL LIMIT - NOV. - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
2J070	PACK ICE (Cont.)		
	HSA HYDROGRAPHIC SEASONAL ATTRIBUTE (Cont.)		
		015 - SEASONAL LIMIT - DEC. - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J080	POLAR ICE		THE HEAVIEST, THICKEST FORM OF PERMANENTLY FROZEN ICE OVER THE POLES.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	HSA HYDROGRAPHIC SEASONAL ATTRIBUTE		Restriction due to climate.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - PERMANENT ICE - - - - - - - - - -	
		004 - SEASONAL LIMIT - JAN. - - - - - -	
		005 - SEASONAL LIMIT - FEB. - - - - - -	
		006 - SEASONAL LIMIT - MAR. - - - - - -	
		007 - SEASONAL LIMIT - APR. - - - - - -	
		008 - SEASONAL LIMIT - MAY - - - - - -	
		009 - SEASONAL LIMIT - JUN. - - - - - -	
		010 - SEASONAL LIMIT - JUL. - - - - - -	
		011 - SEASONAL LIMIT - AUG. - - - - - -	
		012 - SEASONAL LIMIT - SEP. - - - - - -	
		013 - SEASONAL LIMIT - OCT. - - - - - -	
		014 - SEASONAL LIMIT - NOV. - - - - - -	
		015 - SEASONAL LIMIT - DEC. - - - - - -	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
2J100	SNOW FIELD /ICE FIELD		A LARGE LAND AREA PERMANENTLY COVERED BY SNOW OR ICE.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		013 - SNOW/ICE - - - - - - - - - - - - - -	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
	SIC	SNOW /ICE CATEGORY	Indicates the composition of the feature.
		001 - SNOW - - - - - - - - - - - - - - - -	
		002 - ICE - - - - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
2J110	TUNDRA		A REGION OF PERMAFROST SUBSOIL IN THE ARCTIC AND SUBARCTIC ZONES WHICH SUSTAINS A GROWTH OF LOW VEGETATION.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
2J110	TUNDRA (Cont.)		
	RSF	RADAR SIGNIFICANCE FACTOR (Cont.)	
		010 - SOIL - - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
3A010	CONTOUR (LAND)		A LINE CONNECTING POINTS OF EQUAL ELEVATION.
	HQC	HYPSOGRAPHY PORTRAYAL CATEGORY	Type of line shown.
		001 - INDEX - - - - - - - - - - - - - - -	A line shown at specified intervals indicating a multiple of the contour interval.
		002 - INTERMEDIATE - - - - - - - - - - - -	A line between index contours, at the specified contour interval.
		003 - SUPPLEMENTARY (1/2) - - - - - - - -	A line at 1/2 the basic contour interval to augment portrayal of features not shown by prescribed contour interval.
		004 - FORM LINES - - - - - - - - - - - - -	Lines indicating general shapes of landforms, but representing no actual elevations.
		005 - DEPRESSION INDEX - - - - - - - - - -	A line enclosing areas of lower elevation than surrounding terrain (multiple of contour interval).
		006 - DEPRESSION INTERMEDIATE - - - - - -	A line enclosing areas of lower elevation than surrounding terrain (at contour interval).
		007 - INDEX APPROXIMATE - - - - - - - - -	A line not meeting accurate contour requirements (multiple of contour interval).
		008 - MOUND INDEX - - - - - - - - - - - -	A line indicating a raised area within a depression, at specified multiple of contour interval.
		009 - MOUND INTERMEDIATE - - - - - - - - -	A line indicating a raised area within a depression, at specified contour interval.
		012 - INTERMEDIATE APPROXIMATE - - - - - -	A line not meeting accurate contour requirements (between index contours).
		014 - SUPPLEMENTARY (1/4) - - - - - - - -	A line at 1/4 the contour interval to augment portrayal of features not shown by prescribed contour interval.
		016 - DEPRESSION SUPPLEMENTARY (1/2) - -	
		017 - DEPRESSION SUPPLEMENTARY (1/4) -	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		023 - EARTHEN - - - - - - - - - - - - - -	
		098 - SNOW /ICE - - - - - - - - - - - - -	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

3A020	RIDGE LINE .		THE VERTEX OF TWO OR MORE ADJOINING SLOPES OF TERRAIN FROM WHICH WATER BEGINS TO FLOW IN OPPOSITE DIRECTIONS.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from a point on the vertex to the base of the ridge. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane.. Increment: 1 Percent Limits: Measured at right angle to vertex line. Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
3A030	SPOT ELEVATION		A DESIGNATED LOCATION WITH AN ELEVATION VALUE RELATIVE TO MEAN SEA LEVEL.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	Exact location is doubtful.
	ELA	ELEVATION ACCURACY	Indicates whether the ZVL value is accurately known.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		023 - EARTHEN - - - - - - - - - - - - -	
		098 - SNOW /ICE - - - - - - - - - - - - -	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

Fcode	Feature	Attributes/Values	Definition
4A005	ASPHALT LAKE		A NATURAL POOL OF LIQUID ASPHALT.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

4A010	GROUND SURFACE		THE LAND SURFACE OF THE EARTH.
	1HT	DERIVED HEIGHT	For computation only. 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HDE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
4A010	GROUND SURFACE (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		006 - BOULDERS - - - - - - - - - - - - -	
		030 - GAS /OIL BLISTER - - - - - - - - -	
		035 - GRAVEL - - - - - - - - - - - - - -	
		040 - KARST - - - - - - - - - - - - - - -	
		043 - LAVA - - - - - - - - - - - - - - -	
		044 - LOESS - - - - - - - - - - - - - - -	
		052 - MUD - - - - - - - - - - - - - - - -	
		066 - ROCK - - - - - - - - - - - - - - -	Exposed bedrock.
		069 - SAND - - - - - - - - - - - - - - -	
		077 - SOIL - - - - - - - - - - - - - - -	
		102 - OTHER - - - - - - - - - - - - - -	
		116 - NOT APPLICABLE - - - - - - - - - -	
		117 - ROCKY - - - - - - - - - - - - - -	Rocky ground surface with sizes larger than gravel, but smaller than boulders.
		118 - SAND AND GRAVEL - - - - - - - - -	
		119 - SAND AND MUD - - - - - - - - - -	
		120 - SAND AND BOULDERS - - - - - - - -	
	RSP	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		007 - DESERT/SAND - - - - - - - - - - -	>= 51% of desert/sand characteristics (rock, gravel, and sand); includes sand dunes, sand bars, and mud/tidal flats
		008 - ROCK - - - - - - - - - - - - - - -	>= 51% of rock surface characteristics (ridges, rock outcrops, lava, or boulder fields)
		010 - SOIL - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
4A015	CLEARED WAY		A MAN-MADE CLEARING IN A CULTURAL AREA OR THROUGH A STAND OF TREES, DESIGNED TO PROVIDE ACCESS FOR A ROAD, RAILROAD, PIPELINE OR POWER TRANSMISSION LINE.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
4A015	CLEARED WAY (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		009 - CONCRETE - - - - - - - - - - - - -	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
		010 - SOIL - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
		014 - ASPHALT - - - - - - - - - - - - -	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
		Range: > 0...No Upper Limit	Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
4A020	SALT PAN		AN UNDRAINED NATURAL DEPRESSION OR HOLLOW IN WHICH WATER ACCUMULATES AND EVAPORATES LEAVING A FLAT NATURAL SURFACE SALT DEPOSIT.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - -	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
		Range: > 0...No Upper Limit	Increment: 1 Square Meter Limits: N/A Variance: N/A
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
		Range: 0...No Upper Limit	Increment: 1 Meter Limits: N/A Variance: N/A
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
		Range: > 0...No Upper Limit	Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		006 - WATER - - - - - - - - - - - - - -	Surface material is a water area or a well-defined salt or dry lake bed
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
		Range: > 0...No Upper Limit	Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL		THE SURFICIAL LAYER OF CONSOLIDATED AND UNCONSOLIDATED EARTH MATERIALS OCCURING ON THE LAND SURFACE.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		006 - BOULDERS - - - - - - - - - - - - -	
		024 - EVAPORITES - - - - - - - - - - - - -	Deposites resulting from the evaporation of water.
		066 - ROCK - - - - - - - - - - - - - - - -	Exposed bedrock.
		077 - SOIL - - - - - - - - - - - - - - - -	
		098 - SNOW /ICE - - - - - - - - - - - - -	
		102 - OTHER - - - - - - - - - - - - - - -	
	SDC	SURFICIAL MATERIAL DEPTH CATEGORY	Estimated general depth of soil or unconsolidated surface material, expressed in .5 meter increments.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - < 0.5 - - - - - - - - - - - - - - -	
		002 - >= 0.5 - - - - - - - - - - - - - - -	
	SOG	STATE OF THE GROUND	Typical condition of the soil.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - DRY - - - - - - - - - - - - - - - -	
		002 - MOIST - - - - - - - - - - - - - - -	
		003 - WET - - - - - - - - - - - - - - - -	
		004 - FROZEN - - - - - - - - - - - - - - -	
	SRD	SURFACE ROUGHNESS DESCRIPTION	Description of microrelief and ground surface characteristics that affect cross country movement during military operations.
		001 - NO SURFACE ROUGHNESS EFFECT - - -	
		002 - AREA OF HIGH LANDSLIDE POTENTIAL -	
		003 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		004 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		005 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		006 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		007 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		008 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		009 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		010 - ANY STANDARDIZED/RESERVED DESCRIPTION - - - - - - - - - -	
		011 - SURFACE OF NUMEROUS COBBLES AND BOULDERS - - - - - - - - - - -	
		012 - AREAS OF STONY TERRAIN - - - - - -	
		013 - STONY SOIL WITH SURFACE ROCK - - -	
		014 - STONY SOIL WITH SCATTERED BOULDERS	
		015 - STONY SOIL WITH NUMEROUS BOULDERS	
		016 - NUMEROUS BOULDERS - - - - - - - - -	
		017 - NUMEROUS ROCK OUTCROPS - - - - - -	
		018 - AREA OF SCATTERED BOULDERS - - - -	
		019 - TALUS SLOPE - - - - - - - - - - - -	
		020 - BOULDER FIELD - - - - - - - - - - -	
		021 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		022 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		023 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		024 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		025 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		026 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		027 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		028 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		029 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	
		030 - ANY NATURAL IRREGULARITIES DESCRIPTION - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	SRD	SURFACE ROUGHNESS DESCRIPTION (Cont.)	
		031 - HIGHLY FRACTURED ROCK SURFACE	
		032 - WEATHERED LAVA FLOWS	
		033 - UNWEATHERED LAVA FLOWS	
		034 - STONY SOIL WITH NUMEROUS ROCK OUTCROPS	
		035 - IRREGULAR SURFACE WITH DEEP FRACTURES OF FOLIATION	
		036 - RUGGED TERRAIN WITH NUMEROUS ROCK OUTCROPS	
		037 - RUGGED BEDROCK SURFACE	
		038 - SAND DUNES	
		039 - SAND DUNES/LOW	
		040 - SAND DUNES/HIGH	
		041 - ACTIVE SAND DUNES	
		042 - STABILIZED SAND DUNES	
		043 - HIGHLY DISTORTED AREA, SHARP ROCKY RIDGES	
		044 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		045 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		046 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		047 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		048 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		049 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		050 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	
		051 - STONY SOIL CUT BY NUMEROUS GULLIES	
		052 - MODERATELY DISSECTED TERRAIN	
		053 - MODERATELY DISSECTED TERRAIN WITH SCATTERED ROCK OUTCROPS	
		054 - DISSECTED FLOODPLAIN	
		055 - HIGHLY DISSECTED TERRAIN	
		056 - AREA WITH DEEP EROSIONAL GULLIES	
		057 - STEEP, RUGGED, DISSECTED TERRAIN WITH NARROW GULLIES	
		058 - KARST/AREAS OF NUMEROUS SINKHOLES AND SOLUTION VALLEYS	
		059 - KARST/AREA OF NUMEROUS SINKHOLES	
		060 - KARST/HUMMOCKY TERRAIN COVERED WITH LARGE CONICAL HILLS	
		061 - KARST/HUMMOCKY TERRAIN COVERED WITH LOW, BROAD-BASED MOUNDS	
		062 - ARROYO/WADI/WASH	
		063 - PLAYA/DRY LAKE	
		064 - AREA OF NUMEROUS MEANDER SCARS AND/OR OXBOW LAKES	
		065 - SOLIFLUCTION LOBES AND FROST SCARS	
		066 - HUMMOCKY GROUND, AREAS OF FROST HEAVING	
		067 - AREA OF FROST POLYGONS	
		068 - AREA CONTAINING SABKHAS	
		069 - AREA OF NUMEROUS SMALL LAKES/PONDS	
		070 - AREA OF NUMEROUS CREVASSES	
		071 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		072 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		073 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		074 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		075 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		076 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		077 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		078 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		079 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		080 - ANY FLUVIAL/GLACIAL DESCRIPTION	
		081 - AREA OF NUMEROUS TERRACES	
		082 - QUARRIES	
		083 - STRIP MINES	
		084 - QUARRY/GRAVEL PIT	
		085 - QUARRY/SAND PIT	
		086 - MINE TAILINGS/WASTE PILES	
		087 - SALT EVAPORATORS	
		088 - AREA OF NUMEROUS DIKES	
		089 - AREA OF NUMEROUS DIKED FIELDS	
		090 - AREA OF NUMEROUS FENCES	
		091 - AREA OF NUMEROUS STONE WALLS	
		092 - AREA OF NUMEROUS MAN-MADE CANALS/DRAINS/DITCHES	
		093 - AREA OF NUMEROUS TERRACED FIELDS	

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	SRD	SURFACE ROUGHNESS DESCRIPTION (Cont.)	
		094 - PARALLEL EARTHEN MOUNDS (ROW CROPS)	
		095 - AREA OF NUMEROUS HEDGEROWS	
		096 - ANY CULTURAL DESCRIPTION	
		097 - ANY CULTURAL DESCRIPTION	
		098 - ANY CULTURAL DESCRIPTION	
		099 - ANY CULTURAL DESCRIPTION	
		100 - ANY CULTURAL DESCRIPTION	
		101 - ANY DESCRIPTION	
		102 - ANY DESCRIPTION	
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		148 - ANY DESCRIPTION	
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		150 - ANY DESCRIPTION	
		151 - ANY DESCRIPTION	
		152 - ANY DESCRIPTION	
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		165 - ANY DESCRIPTION	
		166 - ANY DESCRIPTION	
		167 - ANY DESCRIPTION	
		168 - ANY DESCRIPTION	
		169 - ANY DESCRIPTION	
		170 - ANY DESCRIPTION	
		171 - ANY DESCRIPTION	
		172 - ANY DESCRIPTION	
		173 - ANY DESCRIPTION	
		174 - ANY DESCRIPTION	
		175 - ANY DESCRIPTION	

Pcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	SRD	SURFACE ROUGHNESS DESCRIPTION (Cont.)	
		176 - ANY DESCRIPTION	
		177 - ANY DESCRIPTION	
		178 - ANY DESCRIPTION	
		179 - ANY DESCRIPTION	
		180 - ANY DESCRIPTION	
		181 - ANY DESCRIPTION	
		182 - ANY DESCRIPTION	
		183 - ANY DESCRIPTION	
		184 - ANY DESCRIPTION	
		185 - ANY DESCRIPTION	
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		248 - ANY DESCRIPTION	
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		250 - ANY DESCRIPTION	
		251 - ANY DESCRIPTION	
		252 - ANY DESCRIPTION	
		253 - ANY DESCRIPTION	
		254 - ANY DESCRIPTION	
		255 - ANY DESCRIPTION	
		256 - ANY DESCRIPTION	
		257 - ANY DESCRIPTION	

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	SRD	SURFACE ROUGHNESS DESCRIPTION (Cont.)	
		258 - ANY DESCRIPTION	
		259 - ANY DESCRIPTION	
		260 - ANY DESCRIPTION	
		261 - ANY DESCRIPTION	
		262 - ANY DESCRIPTION	
		263 - ANY DESCRIPTION	
		264 - ANY DESCRIPTION	
		265 - ANY DESCRIPTION	
		266 - ANY DESCRIPTION	
		267 - ANY DESCRIPTION	
		268 - ANY DESCRIPTION	
		269 - ANY DESCRIPTION	
		270 - ANY DESCRIPTION	
		271 - ANY DESCRIPTION	
		272 - ANY DESCRIPTION	
		273 - ANY DESCRIPTION	
		274 - ANY DESCRIPTION	
		275 - ANY DESCRIPTION	
		276 - ANY DESCRIPTION	
		277 - ANY DESCRIPTION	
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		283 - ANY DESCRIPTION	
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		291 - ANY DESCRIPTION	
		292 - ANY DESCRIPTION	
		293 - ANY DESCRIPTION	
		294 - ANY DESCRIPTION	
		295 - ANY DESCRIPTION	
		296 - ANY DESCRIPTION	
		297 - ANY DESCRIPTION	
		298 - ANY DESCRIPTION	
		299 - ANY DESCRIPTION	
		300 - ANY DESCRIPTION	
	SRQ	SURFACE ROUGHNESS QUALIFIER	A code which relates a surface material mapping unit to a Surface Roughness Description (SRD) value.
		000 - ANY NUMBER	
	STC	SOIL TYPE CATEGORY	Soil material described by the Unified Soil Classification System.
		000 - UNKNOWN	
		001 - GW	Well-graded gravels or gravel-sand mixtures, little or no fines.
		002 - GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		003 - GM	Silty gravels, gravel-sand-silt mixtures.
		004 - GC	Clayey gravels, gravel-sand-clay mixtures.
		005 - SW	Well-graded sand or gravelly sands, little or no fines.
		006 - SP	Poorly graded sands or gravelly sands, little or no fines.
		007 - SM	Silty sands, sand-silt mixtures.
		008 - SC	Clayey sands, sand-clay mixtures.
		009 - ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.
		010 - CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		011 - OL	Organic silts and organic silty clays of low plasticity.
		012 - CH	Inorganic clays of high plasticity, fat clays.
		013 - MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
		014 - OH	Organic clays of medium to high plasticity, organic silts.
		015 - PT	Peat and other highly organic soils.
		016 - OTHER	
		017 - ML-CL	Boundary soil classification having characteristics of both ML and CL soil type.
		018 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		019 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		020 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		021 - OPEN FIELDS FOR INTERACTIVE DEFINITION	

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	STC	SOIL TYPE CATEGORY (Cont.)	
		022 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		023 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		024 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		025 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		026 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		027 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		028 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		029 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		030 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		031 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		032 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		033 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		034 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		035 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		036 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		037 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		038 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		039 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		040 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		041 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		042 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		043 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		044 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		045 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		046 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		047 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		048 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		049 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		050 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		051 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		052 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		053 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		054 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		055 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		056 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		057 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		058 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		059 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		060 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		061 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		062 - OPEN FIELDS FOR INTERACTIVE DEFINITION	

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	STC	SOIL TYPE CATEGORY (Cont.)	
		063 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		064 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		065 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		066 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		067 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		068 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		069 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		070 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		071 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		072 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		073 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		074 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		075 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		076 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		077 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		078 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		079 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		080 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		081 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		082 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		083 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		084 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		085 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		086 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		087 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		088 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		089 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		090 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		091 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		092 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		093 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		094 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		095 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		096 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		097 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		098 - OPEN FIELDS FOR INTERACTIVE DEFINITION	
		099 - NOT EVALUATED	Area where construction or development precludes evaluation of natural surface materials.
	STG	SOIL TRAFFICABILITY GROUP	Soils described by the Unified Soil Classification System categorized by their wet weather trafficability characteristics.
		000 - UNKNOWN	
		001 - A	GW,GP,SW,SP
		002 - B	CH

Fcode	Feature	Attributes/Values	Definition
4A030	SURFICIAL MATERIAL (Cont.)		
	STG	SOIL TRAFFICABILITY GROUP (Cont.)	
		003 - C - - - - - - - - - - - - - - - - -	GC,SC,CL
		004 - D - - - - - - - - - - - - - - - - -	GM,SM,ML,ML-CL,MH,CL,OH
		005 - E - - - - - - - - - - - - - - - - -	PT
		006 - X - - - - - - - - - - - - - - - - -	Not Evaluated
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

4B010	BLUFF /CLIFF, ESCARPMENT		BLUFF/CLIFF: A STEEP, VERTICAL, OR OVERHANGING FACE OF EARTH OR ROCK (RESPECTIVELY). ESCARPMENT: A NATURAL RELIEF FEATURE WITH A SHARP BREAK IN SLOPESEPARATING TWO COMPARATIVELY LEVEL OR MORE GENTLY SLOPING SURFACES.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFH - - - - - - -	
		002 - > 5.0 AND <= 10.0 PFH - - - - - -	
		003 - > 10.0 AND <= 20.0 PFH - - - - - -	
		004 - > 20.0 AND <= 40.0 PFH - - - - - -	
		005 - > 40.0 PFH - - - - - - - - - - - -	
		006 - NOT APPLICABLE - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		001 - 1 - - - - - - - - - - - - - - - -	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS - - - - - - - - - -	
		002 - NOT CONSPICUOUS - - - - - - - - -	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2HD80, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		001 - RIGHT UNI - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).

Fcode	Feature	Attributes/Values	Definition
4B010	BLUFF /CLIFF, ESCARPMENT (Cont.)		
	DIR	DIRECTIVITY (Cont.)	
		004 - LEFT UNI - - - - - - - - - - - - -	Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).
	GLI	GREATER THAN/LESS THAN CONTOUR INTERVAL ...	Indicates whether the predominant feature height or depth (PFH or PFD) is greater than (or equal to), or less than the contour interval.
		001 - GREATER THAN OR EQUAL TO CONTOUR INTERVAL - - - - - - - - - - - - -	
		002 - LESS THAN CONTOUR INTERVAL - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - -	
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred ; ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
4B010	BLUFF /CLIFF, ESCARPMENT (Cont.)		
	WID	WIDTH (Cont.)	Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
4B030	*CAVE DWELLING*		A DWELLING THAT CONSISTS OF A ROOM OR SERIES OF ROOMS DUG INTO THE SIDE OF A RAVINE.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: Axis indicated by the azimuth the entrance is facing.
		Range: 0...359	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - - 002 - NOT LANDMARK - - - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
4B060	CREVICE /CREVASSE		A NARROW FISSURE, CRACK, OR RIFT IN THE EARTH'S SURFACE, SNOW OR ICE.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		023 - EARTHEN - - - - - - - - - - - - - - 098 - SNOW /ICE - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
4B070	CUT		AN EXCAVATION OF THE EARTH'S SURFACE TO PROVIDE PASSAGE FOR A ROAD, RAILROAD, CANAL, ETC., OR PROVIDE AN EXCAVATION FOR OTHER CONSTRUCTION.
	1DE	DERIVED DEPTH	For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate. Increment: Limits: N/A Variance: N/A
		Range: -511...0	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature. Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: 0...No Upper Limit	

4B071	CUT LINE		AN EDGE OF THE EXCAVATION OF THE EARTH'S SURFACE TO PROVIDE PASSAGE FOR A ROAD, RAILROAD, CANAL, ETC., OR PROVIDE AN EXCAVATION FOR OTHER CONSTRUCTION.
	1OD	DERIVED OBSTACLE DEPTH CATEGORY	Coded value indicating predominant obstacle depth range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFD - - - - - - - 002 - > 5.0 AND <= 10.0 PFD - - - - - - 003 - > 10.0 AND <= 20.0 PFD - - - - - - 004 - > 20.0 AND <= 40.0 PFD - - - - - - 005 - > 40.0 PFD - - - - - - - - - - - - 006 - NOT APPLICABLE - - - - - - - - - -	
	DEP	DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature.

Fcode	Feature	Attributes/Values	Definition
4B071	CUT LINE (Cont.)		
	DEP DEPTH BELOW SURFACE LEVEL (Cont.)		Increment: 0.5 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	GLI GREATER THAN/LESS THAN CONTOUR INTERVAL ...		Indicates whether the predominant feature height or depth (PFH or PFD) is greater than (or equal to), or less than the contour interval.
		001 - GREATER THAN OR EQUAL TO CONTOUR INTERVAL 002 - LESS THAN CONTOUR INTERVAL	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured from longer of the two axes. Variance: N/A
		Range: > 0...No Upper Limit	
	OHD OBSTACLE HEIGHT/DEPTH CATEGORY		Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN 001 - > 1.5 AND <= 5.0 002 - > 5.0 AND <= 10.0 003 - > 10.0 AND <= 20.0 004 - > 20.0 AND <= 40.0 005 - > 40.0	
	PFD PREDOMINANT FEATURE DEPTH		Predominant depth within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	SGC SLOPE /GRADIENT CATEGORY		The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Measured from shorter of the two axes. Variance: N/A
		Range: > 0...No Upper Limit	
4B080	DEPRESSION		A LOW AREA SURROUNDED BY HIGHER GROUND.
	1OD DERIVED OBSTACLE DEPTH CATEGORY		Coded value indicating predominant obstacle depth range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFD 002 - > 5.0 AND <= 10.0 PFD 003 - > 10.0 AND <= 20.0 PFD 004 - > 20.0 AND <= 40.0 PFD 005 - > 40.0 PFD 006 - NOT APPLICABLE	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
4B080	DEPRESSION (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	OHD OBSTACLE HEIGHT/DEPTH CATEGORY		Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN 001 - > 1.5 AND <= 5.0 002 - > 5.0 AND <= 10.0 003 - > 10.0 AND <= 20.0 004 - > 20.0 AND <= 40.0 005 - > 40.0	
	PFD PREDOMINANT FEATURE DEPTH		Predominant depth within delineation of feature.
		Range: > 0...No Upper Limit	Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
	SGC SLOPE /GRADIENT CATEGORY		The maximum percentage of incline from the horizontaql plane..
		Range: 0...No Upper Limit	Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
		Default: 0=Not Applicable Range: 0...No Upper Limit	Increment: 1 Meter Limits: N/A Variance: N/A
4B090	EMBANKMENT		A RAISED SOLID FILL LINEAR MOUND OF EARTH OR OTHER MATERIAL.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		Range: 0...511	Increment: Limits: N/A Variance: N/A
	1OH DERIVED OBSTACLE HEIGHT CATEGORY		Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 FFH 002 - > 5.0 AND <= 10.0 FFH 003 - > 10.0 AND <= 20.0 FFH 004 - > 20.0 AND <= 40.0 FFH 005 - > 40.0 FFH 006 - NOT APPLICABLE	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		Range: 0...127	Increment: Limits: N/A Variance: N/A
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Fcode	Feature	Attributes/Values	Definition
4B090	EMBANKMENT (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	EFI	EMBANKMENT /FILL IDENTIFIER	Identifier of embankment feature describing the embankment type.
		001 - FILL	An embankment at constant or level grade constructed to provide a passageway for a line of communication such as a road, railroad, canal, etc.
		002 - LEVEE /DIKE	An embankment constructed to prevent flooding or to control or confine the flow of liquids.
		003 - CAUSEWAY	An embankment constructed to carry a road or railroad across water or wetlands.
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	GLI	GREATER THAN/LESS THAN CONTOUR INTERVAL	Indicates whether the predominant feature height or depth (PFH or PFD) is greater than (or equal to), or less than the contour interval.
		001 - GREATER THAN OR EQUAL TO CONTOUR INTERVAL	
		002 - LESS THAN CONTOUR INTERVAL	
		003 - NOT APPLICABLE	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HDE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	

Fcode	Feature	Attributes/Values	Definition
4B090	EMBANKMENT (Cont.)		
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - -	
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL - - - - - - - - - - - - - -	>= 75% metal
		002 - PART METAL - - - - - - - - - - - -	>= 40% to < 75% metal
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION - - - - - - - - - -	Composed of a variety of materials with < 75% stone/brick and 0% metal
		005 - EARTHEN WORKS - - - - - - - - - -	>= 51% of land, soil or ground surface
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	TUC	TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
		001 - ROAD AND RAILROAD - - - - - - - -	
		003 - RAILROAD - - - - - - - - - - - - -	
		004 - ROAD - - - - - - - - - - - - - - -	
		019 - AQUEDUCT - - - - - - - - - - - - -	
		020 - CANAL - - - - - - - - - - - - - -	
		021 - NOT APPLICABLE - - - - - - - - - -	
		024 - PIPELINE - - - - - - - - - - - - -	
		025 - SIDINGS/SPURS - - - - - - - - - -	
		026 - DITCH - - - - - - - - - - - - - -	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - - -	
		009 - NOT APPLICABLE - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
4B100	ESKER		A LONG, NARROW RIDGE OF SAND AND GRAVEL DEPOSITED BY A GLACIAL STREAM.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
4B110	FAULT		A FRACTURE IN THE EARTH'S CRUST WITH DISPLACEMENT ON ONE SIDE OF THE FRACTURE RELATIVE TO THE OTHER.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
4B115	GEOTHERMAL FEATURE		A TERRAIN SURFACE FEATURE CONTROLLED BY OR DERIVED FROM THE HEAT OF THE EARTH'S INTERIOR.
	DOF	DIRECTION OF FLOW	Azimuth of movement or direction of the flow. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the direction of the flow. Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	GFT	GEOTHERMAL FEATURE TYPE	Type of feature present.

Fcode	Feature	Attributes/Values	Definition
4B115	GEOTHERMAL FEATURE (Cont.)		
	GFT	GEOTHERMAL FEATURE TYPE (Cont.)	
		000 - UNKNOWN	
		001 - FUMAROLE	A hole or vent in the earth's surface from which fumes or vapors are emitted.
		002 - GEYSER	A type of spring that intermittently erupts jets of hot water and steam.
		003 - HOT SPRING	A thermal spring whose waters are hotter than 98 degrees Fahrenheit.
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK	
		002 - NOT LANDMARK	

4B135	ISLAND		A BODY OF LAND SURROUNDED BY WATER.
	1AO	DERIVED ANGLE OF ORIENTATION CODE	For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63. Increment: Limits: N/A Variance: N/A
		Default: 63 Range: 0...31	
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: N/A
		Range: 1...360	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
4B135	ISLAND (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		003 - STONE/BRICK - - - - - - - - - - -	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		010 - SOIL - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
4B145	MISCELLANEOUS OBSTACLE FEATURE		A FEATURE WHICH ACTS AS AN OBSTACLE TO MILITARY CROSS COUNTRY MOVEMENT, AND IS NOT CAPTURED BY ANY OTHER FACS CODE.
	1OD	DERIVED OBSTACLE DEPTH CATEGORY	Coded value indicating predominant obstacle depth range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFD - - - - - - -	
		002 - > 5.0 AND <= 10.0 PFD - - - - - -	
		003 - > 10.0 AND <= 20.0 PFD - - - - - -	
		004 - > 20.0 AND <= 40.0 PFD - - - - - -	
		005 - > 40.0 PFD - - - - - - - - - - - -	
		006 - NOT APPLICABLE - - - - - - - - - -	
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFH - - - - - - -	
		002 - > 5.0 AND <= 10.0 PFH - - - - - -	
		003 - > 10.0 AND <= 20.0 PFH - - - - - -	
		004 - > 20.0 AND <= 40.0 PFH - - - - - -	
		005 - > 40.0 PFH - - - - - - - - - - - -	
		006 - NOT APPLICABLE - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE	The distance available to pass a load that extends laterally beyond the wheels of a vehicle.

Fcode	Feature	Attributes/Values	Definition
4B145	MISCELLANEOUS OBSTACLE FEATURE (Cont.)		
	HCA	HORIZONTAL CLEARANCE ATTRIBUTE (Cont.)	
			Increment: 0.1 Meter Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. If Linear, measure along centerline of feature. Variance: N/A
		Range: > 0...No Upper Limit	
	MFT	MISCELLANEOUS FEATURE TYPE	Defines the type of miscellaneous surface drainage or obstacle feature encountered.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - SHELTERBELT/WINDBREAK - - - - - - -	A row or multiple rows of closely spaced tall bushes or trees used as a natural snow fence to protect transportation features and/or agricultural areas from drifting snow and/or wind protection.
		002 - ELEVATED STRUCTURE - - - - - - - - -	Structures which are characterized by height and/or width clearances between supports that prohibit military vehicles from passing beneath or through them.
		003 - WOODED GULLY - - - - - - - - - - - -	A narrow, steep sided, heavily vegetated dry gully or ditch.
		004 - ANTI-TANK DITCH - - - - - - - - - -	A man-made "V" shaped trench dug for the purpose of imposing an obstacle to armored vehicle cross-country movement in otherwise favorable areas.
		005 - IMPACT AREA - - - - - - - - - - - -	Mostly artillery target practice areas where there is a high probability of unexploded ordnance.
		006 - MINEFIELD - - - - - - - - - - - - -	An area planted with explosive devices or charges in order to prevent movement through it.
		009 - GENERAL AREA OBSTACLE - - - - - - -	
		010 - MILITARY OBSTACLE - - - - - - - - -	
		011 - GENERAL LINEAL OBSTACLE - - - - - -	
	MTS	MISCELLANEOUS TEXTUAL DESCRIPTION	Textual description of the feature.
		000 - ANY DESCRIPTION - - - - - - - - - -	
	OHC	OVERHEAD CLEARANCE CATEGORY	Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.
			Increment: 0.1 Meter Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it. Variance: Measure minimum clearance. Documented or field checked data is recorded as given.
		Default: 0=Unknown, 998=Restricted, 999=Unlimited Range: > 0...997.9	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - - -	
	PFD	PREDOMINANT FEATURE DEPTH	Predominant depth within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.

Fcode	Feature	Attributes/Values	Definition
4B145	MISCELLANEOUS OBSTACLE FEATURE (Cont.)		
	PFH PREDOMINANT FEATURE HEIGHT (Cont.)		
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	SGC SLOPE /GRADIENT CATEGORY		The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. If Linear, measure along centerline of feature. Variance: N/A
		Range: > 0...No Upper Limit	
4B150	MOUNTAIN PASS		THE HIGHEST ELEVATION LOCATION OF A TRANSPORTATION ROUTE THROUGH A *LOW PLACE IN A MOUNTAIN RANGE*.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: Axis indicated by direction through the pass.
		Default: 360 Range: 0...179	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Default: 0=Not Applicable Range: > 0...No Upper Limit	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
4B155	RAVINE, GORGE, CANYON		A DEEP NARROW VALLEY WITH STEEP SIDES, OFTEN WITH A STREAM FLOWING THROUGH IT.

Fcode	Feature	Attributes/Values	Definition
4B155	RAVINE, GORGE, CANYON (Cont.)		
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
4B160	ROCK FORMATION		A NATURAL TOPOGRAPHIC OUTCROP OF ROCK WHICH STANDS ABOVE AND DISTINCT FROM THE SURROUNDING TERRAIN.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	2HT HEIGHT OF AREAL FEATURE		The height shall be the HGT of the delineated areal feature, or of the tallest feature located within that area, whichever is greater. The height accuracy shall be that of the HGT chosen.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EDC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures = Largest percentage of area is covered by man-made structures.
	GHE GREATEST HORIZONTAL EXTENT		The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

Fcode	Feature	Attributes/Values	Definition
4B160	ROCK FORMATION (Cont.)		
	LMC	LANDMARK CATEGORY (Cont.)	
		001 - LANDMARK	
		002 - NOT LANDMARK	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RKF	ROCK FORMATION TYPE	Structure of the rock formation.
		001 - COLUMNAR	
		003 - PINNACLE	
	RKS	ROCK SURFACE TYPE	Surface texture of the feature.
		004 - ROUGH	
		005 - SMOOTH	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		008 - ROCK	>= 51% of rock surface characteristics (ridges, rock outcrops, lava, or boulder fields)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
4B170	SAND DUNES /SAND HILLS		RIDGES OR HILLS OF SAND.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .

Fcode	Feature	Attributes/Values	Definition
4B170	SAND DUNES /SAND HILLS (Cont.)		
	RSF	RADAR SIGNIFICANCE FACTOR (Cont.)	
		007 - DESERT/SAND - - - - - - - - - - - -	>= 51% of desert/sand characteristics (rock, gravel, and sand); includes sand dunes, sand bars, and mud/tidal flats
	SDO	SAND DUNE ORIENTATION	Characteristic alignment of the dune as caused by the prevailing winds. Increment: 5 Degrees Limits: Measured in the downwind direction from true north. Variance: N/A
		Range: 0...359	
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		000 - UNKNOWN - - - - - - - - - - - - - - 022 - CRESCENT - - - - - - - - - - - - - - 026 - LATERAL - - - - - - - - - - - - - - 027 - MOUND - - - - - - - - - - - - - - 028 - RIPPLE - - - - - - - - - - - - - - 029 - STAR - - - - - - - - - - - - - - 030 - TRANSVERSE - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
4B176	SLOPE CATEGORY		AN AREA ENCLOSING A GROUP OF SLOPE VALUES FALLING WITHIN A SET RANGE.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	SPR	SLOPE POLYGON RANGE	Range indicating the slope of ground within delineated area of feature, reported in percent.
		000 - <= 3 - - - - - - - - - - - - - - 001 - > 3 AND <= 10 - - - - - - - - - - 002 - > 10 AND <= 15 - - - - - - - - - - 003 - > 15 AND <= 20 - - - - - - - - - - 004 - > 20 AND <= 30 - - - - - - - - - - 005 - > 30 AND <= 45 - - - - - - - - - - 006 - > 45 AND <= 60 - - - - - - - - - - 007 - > 60 AND <= 85 - - - - - - - - - - 008 - > 85 - - - - - - - - - - - - - - 009 - NATURALLY AND/OR CULTURALLY DISSECTED LAND (0 TO > 60) - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
4B180	VOLCANO		A MOUNTAIN OR HILL, OFTEN CONICAL, FORMED AROUND A VENT IN THE EARTH'S CRUST THROUGH WHICH MOLTEN ROCK, ASH, OR GASES ARE OR HAVE BEEN EXPELLED.

Fcode	Feature	Attributes/Values	Definition
4B180	VOLCANO (Cont.)		
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE	
		002 - APPROXIMATE	
		003 - DOUBTFUL	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		001 - DEFINITE	
		002 - DOUBTFUL	
		003 - REPORTED	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level, to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE	
		006 - BELOW WATER SURFACE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	VGT	VOLCANO GEOLOGIC TYPE	The type of geologic formation created by volcanic activity.
		001 - VOLCANO	
		002 - CINDER CONE	An accumulation of loose cinders around a volcanic vent.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

4B190	VOLCANIC DIKE		AN INTRUSIVE BODY OF IGNEOUS ROCK THAT HAS DEVELOPED INTO A NATURAL WALL-LIKE FORMATION FROM EROSION OF LESS RESISTANT ROCK SURROUNDING IT.
	1OH	DERIVED OBSTACLE HEIGHT CATEGORY	Coded value indicating predominant obstacle height range in meters within delineation of feature.
		001 - > 1.5 AND <= 5.0 PFH	
		002 - > 5.0 AND <= 10.0 PFH	
		003 - > 10.0 AND <= 20.0 PFH	
		004 - > 20.0 AND <= 40.0 PFH	
		005 - > 40.0 PFH	
		006 - NOT APPLICABLE	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.

Fcode	Feature	Attributes/Values	Definition
4B190	VOLCANIC DIKE (Cont.)		
	OHD	OBSTACLE HEIGHT/DEPTH CATEGORY (Cont.)	
		000 - UNKNOWN 001 - > 1.5 AND <= 5.0 002 - > 5.0 AND <= 10.0 003 - > 10.0 AND <= 20.0 004 - > 20.0 AND <= 40.0 005 - > 40.0	
	PFH	PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
			Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	SGC	SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
			Increment: 1 Percent Limits: The change in height divided by the horizontal distance over which the change takes place, times one hundred : ((h2 - h1)/d)*100. Variance: For transportation features, measure along the feature's centerline. For obstacles and stream banks, measure perpendicular to the feature's centerline or boundary of an areal feature.
		Range: 0...No Upper Limit	
4C010	CROSS COUNTRY MOVEMENT SPEED RANGE		A SYNTHESIZED MAP UNIT REPRESENTING THE ESTIMATED AVERAGE SPEED RANGES ATTAINABLE IN CROSSING TERRAIN WITHIN AREA OF FEATURE, EXCLUSIVE OF THE TIME REQUIRED TO CROSS OBSTACLES OR STREAMS.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	CM1	CCM MAP UNIT CODE (1)	A code (1) which relates a CCM map unit to a movement limiting terrain factors description.
		001 - 1 002 - 2 003 - 3 004 - 4 005 - 5 006 - 6 007 - 7	
	CM2	CCM MAP UNIT CODE (2)	A code (2) which relates a CCM map unit to a movement limiting terrain factors description.
		001 - 1 002 - 2 003 - 3 004 - 4 005 - 5	
	MF1	MOVEMENT LIMITING FACTORS (1)	Description of CCM limiting terrain factors, 1. (defined on a project specific basis)
		001 - CHAR: 510 A/N 002 - CHAR: 510 A/N 003 - CHAR: 510 A/N 004 - CHAR: 510 A/N 005 - CHAR: 510 A/N 006 - NO GO - OPEN WATER 007 - BUILT-UP AREA - NOT EVALUATED	
	MF2	MOVEMENT LIMITING FACTORS (2)	Description of CCM limiting terrain factors, 2. (defined on a project specific basis)
		001 - CHAR: 510 A/N 002 - CHAR: 510 A/N	

Fcode	Feature	Attributes/Values	Definition
4C010	CROSS COUNTRY MOVEMENT SPEED RANGE (Cont.)		
	MF2	MOVEMENT LIMITING FACTORS (2) (Cont.)	
		003 - CHAR: 510 A/N - - - - - - - - - -	
		004 - NO GO - OPEN WATER - - - - - - - -	
		005 - BUILT-UP AREA - NOT EVALUATED - -	

Fcode	Feature	Attributes/Values	Definition
5A010	CROPLAND (CULTIVATED)		AN AREA THAT HAS BEEN TILLED FOR THE PLANTING OF CROPS, INCLUDING GROUND LEFT FALLOW ON A SEASONAL BASIS.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	FTC	FARMING TYPE CATEGORY	Type of field pattern.
		001 - SHIFTING CULTIVATION - - - - - - - -	
		003 - TERRACED - - - - - - - - - - - - - -	
		004 - OTHER - - - - - - - - - - - - - - - -	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		011 - MARSH - - - - - - - - - - - - - - -	>= 51% of marsh surface characteristic (moist, wet, spongy, low-lying ground) and generally not suitable for cultivation without being drained
	VEG	VEGETATION CHARACTERISTICS	Type or characteristic of vegetation.
		001 - DRY CROPS - - - - - - - - - - - - -	
		004 - RICE PADDIES - - - - - - - - - - - -	
		032 - NOT APPLICABLE - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
5A020	HEDGEROW		A CONTINUOUS GROWTH OF SHRUBBERY PLANTED AS A FENCE, A BOUNDARY, OR A WIND BREAK.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
5A020	HEDGEROW (Cont.)		
	1HT DERIVED HEIGHT (Cont.)		
		001 - 1 - - - - - - - - - - - - - - - -	
	1WD DERIVED WIDTH		For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		001 - 1 - - - - - - - - - - - - - - - -	
	DIR DIRECTIVITY		The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	OHD OBSTACLE HEIGHT/DEPTH CATEGORY		Catogorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - > 1.5 AND <= 5.0 - - - - - - - - -	
		002 - > 5.0 AND <= 10.0 - - - - - - - - -	
		003 - > 10.0 AND <= 20.0 - - - - - - - -	
		004 - > 20.0 AND <= 40.0 - - - - - - - -	
		005 - > 40.0 - - - - - - - - - - - - - -	
	PFH PREDOMINANT FEATURE HEIGHT		Predominant height within delineation of feature. Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

5A030 NURSERY . A PLACE WHERE SHRUBS, FLOWERS, AND TREES ARE GROWN FOR TRANSPLANTING, SEEDOR GRAFTING.

Fcode	Feature	Attributes/Values	Definition
5AD30	NURSERY (Cont.)		
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		003 - MEDIUM - - - - - - - - - - - - - - -	> 15% and <= 50% coverage of ground surface
		004 - DENSE - - - - - - - - - - - - - - -	> 50% coverage of ground surface
		005 - NOT APPLICABLE - - - - - - - - - - -	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	SD1	STEM DIAMETER SIZE RANGE (1)	Estimated range (1) of the average stem diameter size within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - > 0 AND <= 5.00 - - - - - - - - - - -	
		002 - > 5.00 AND <= 10.00 - - - - - - - - -	
		003 - > 10.00 AND <= 20.00 - - - - - - - - -	
		004 - > 20.00 AND <= 30.00 - - - - - - - - -	
		005 - > 30.00 AND <= 40.00 - - - - - - - - -	
		006 - > 40.00 AND <= 60.00 - - - - - - - - -	
		007 - > 60.00 - - - - - - - - - - - - - - -	
	SD2	STEM DIAMETER SIZE RANGE (2)	Estimated range (2) of the average stem diameter within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - > 0 AND <= 10.00 - - - - - - - - - - -	
		002 - > 10.00 AND <= 30.00 - - - - - - - - -	
		003 - > 30.00 AND <= 60.00 - - - - - - - - -	
		004 - > 60.00 - - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - - -	
	STR	SUMMER TREE COVER DENSITY CODE	Coded value indicating percent of summer canopy closure within delineated area of feature.
		001 - <= 25 - - - - - - - - - - - - - - -	
		002 - > 25 AND <= 50 - - - - - - - - - - - -	
		003 - > 50 AND <= 75 - - - - - - - - - - - -	
		004 - > 75 - - - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - - -	
	TRE	TREE CATEGORY	Type of tree coverage.
		000 - UNKNOWN - - - - - - - - - - - - - - -	
		001 - DECIDUOUS - - - - - - - - - - - - - -	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
		002 - EVERGREEN - - - - - - - - - - - - - -	>= 60% Evergreen tree characteristics (permanent foliage present).
		003 - MIXED - - - - - - - - - - - - - - -	An area with both Evergreen and Deciduous trees with no one type being predominant and with varying proportions between >= 40 and <= 60 percent..
	TS1	TREE SPACING RANGE (1)	Estimated range (1) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.

Fcode	Feature	Attributes/Values	Definition
5A030	NURSERY (Cont.)		
	TS1	TREE SPACING RANGE (1) (Cont.)	
		000 - UNKNOWN 001 - > 0 AND <= 1.0 002 - > 1.0 AND <= 2.0 003 - > 2.0 AND <= 3.0 004 - > 3.0 AND <= 5.0 005 - > 5.0 AND <= 7.0 006 - > 7.0 AND <= 10.0 007 - > 10.0 AND <= 15.0 008 - > 15.0	
	TS2	TREE SPACING RANGE (2)	Estimated range (2) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
		000 - UNKNOWN 001 - > 0 AND <= 3.0 002 - > 3.0 AND <= 6.0 003 - > 6.0 AND <= 10.0 004 - > 10.0 005 - NOT APPLICABLE	
	VH1	PREDOMINANT VEGETATION HEIGHT RANGE (1) ...	Range of predominant height (in meters) of vegetation within delineated area of feature (First Range).
		000 - UNKNOWN	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTR	WINTER TREE COVER DENSITY CODE	Coded value indicating percent of winter canopy closure within delineated area of feature.
		001 - <= 25 002 - > 25 AND <= 50 003 - > 50 AND <= 75 004 - > 75 005 - NOT APPLICABLE	

5A040	ORCHARD /PLANTATION		AREA COVERED BY SYSTEMATIC PLANTING OF TREES, NORMALLY IN REGULARLY SPACED ROWS, WHICH YIELD FRUITS, NUTS OR OTHER PRODUCTS EXCLUSIVE OF TIMBER, GRAPES, OR HOPS.
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		008 - 8 015 - 15	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.

Fcode	Feature	Attributes/Values	Definition
5A040	ORCHARD /PLANTATION (Cont.)		
	BUD	BRUSH /UNDERGROWTH DENSITY CODE (Cont.)	
		000 - UNKNOWN	
		001 - OPEN	<= 5% coverage of ground surface
		002 - SPARSE	> 5% and <= 15% coverage of ground surface
		003 - MEDIUM	> 15% and <= 50% coverage of ground surface
		004 - DENSE	> 50% coverage of ground surface
		005 - NOT APPLICABLE	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
5A040	ORCHARD /PLANTATION (Cont.)		
	LEN	LENGTH /DIAMETER (Cont.)	
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LNC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		019 - OTHER - - - - - - - - - - - - - - -	
		022 - RUBBER - - - - - - - - - - - - - - -	
		050 - BANANAS - - - - - - - - - - - - - -	
		051 - COTTON - - - - - - - - - - - - - - -	
		054 - BAMBOO - - - - - - - - - - - - - - -	
		055 - COFFEE - - - - - - - - - - - - - - -	
		056 - COMMON FRUIT AND/OR NUT - - - - - -	
		057 - PALMS - - - - - - - - - - - - - - -	
		058 - PALMETTO - - - - - - - - - - - - - -	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	SD1	STEM DIAMETER SIZE RANGE (1)	Estimated range (1) of the average stem diameter size within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 0 AND <= 5.00 - - - - - - - - - -	
		002 - > 5.00 AND <= 10.00 - - - - - - - -	
		003 - > 10.00 AND <= 20.00 - - - - - - - -	
		004 - > 20.00 AND <= 30.00 - - - - - - - -	
		005 - > 30.00 AND <= 40.00 - - - - - - - -	
		006 - > 40.00 AND <= 60.00 - - - - - - - -	
		007 - > 60.00 - - - - - - - - - - - - - -	
	SD2	STEM DIAMETER SIZE RANGE (2)	Estimated range (2) of the average stem diameter within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 0 AND <= 10.00 - - - - - - - - - -	
		002 - > 10.00 AND <= 30.00 - - - - - - - -	
		003 - > 30.00 AND <= 60.00 - - - - - - - -	
		004 - > 60.00 - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - - -	
	STR	SUMMER TREE COVER DENSITY CODE	Coded value indicating percent of summer canopy closure within delineated area of feature.
		001 - <= 25 - - - - - - - - - - - - - - -	
		002 - > 25 AND <= 50 - - - - - - - - - - -	
		003 - > 50 AND <= 75 - - - - - - - - - - -	
		004 - > 75 - - - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - - -	
	TRE	TREE CATEGORY	Type of tree coverage.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - DECIDUOUS - - - - - - - - - - - - - -	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
		002 - EVERGREEN - - - - - - - - - - - - - -	>= 60% Evergreen tree characteristics (permanent foliage present).

Fcode	Feature	Attributes/Values	Definition
5AD40	ORCHARD /PLANTATION (Cont.)		
	TRE TREE CATEGORY (Cont.)		
		003 - MIXED	An area with both Evergreen and Deciduous trees with on one type being predominant and with varying proportions between >= 40 and <= 60 percent..
	TS1 TREE SPACING RANGE (1)		Estimated range (1) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
		000 - UNKNOWN	
		001 - > 0 AND <= 1.0	
		002 - > 1.0 AND <= 2.0	
		003 - > 2.0 AND <= 3.0	
		004 - > 3.0 AND <= 5.0	
		005 - > 5.0 AND <= 7.0	
		006 - > 7.0 AND <= 10.0	
		007 - > 10.0 AND <= 15.0	
		008 - > 15.0	
	TS2 TREE SPACING RANGE (2)		Estimated range (2) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
		000 - UNKNOWN	
		001 - > 0 AND <= 3.0	
		002 - > 3.0 AND <= 6.0	
		003 - > 6.0 AND <= 10.0	
		004 - > 10.0	
		005 - NOT APPLICABLE	
	VH1 PREDOMINANT VEGETATION HEIGHT RANGE (1)		Range of predominant height (in meters) of vegetation within delineated area of feature (First Range).
		001 - >0 AND <= 5	
		002 - > 5 AND <=10	
		003 - > 10 AND <= 20	
		004 - > 20 AND <= 40	
		005 - > 40	
		006 - NOT APPLICABLE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTR WINTER TREE COVER DENSITY CODE		Coded value indicating percent of winter canopy closure within delineated area of feature.
		001 - <= 25	
		002 - > 25 AND <= 50	
		003 - > 50 AND <= 75	
		004 - > 75	
		005 - NOT APPLICABLE	
5AD50	VINEYARD /HOPS		AREA COVERED BY THE SYSTEMATIC PLANTING OF GRAPE VINES OR HOP VINES.
	1HT DERIVED HEIGHT		For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		008 - 8	
		015 - 15	
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	

Fcode	Feature	Attributes/Values	Definition
5A050	VINEYARD /HOPS (Cont.)		
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DIR	*DIRECTIVITY*	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC	LANDMARK CATEGORY	A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - -	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

5B010 GRASSLAND

AN AREA OF HERBACEOUS PLANTS, MOSTLY GRASS VARIETIES. COMMON NAMES INCLUDE PRAIRIE (TALL GRASS), STEPPE (SHORT GRASS), MEADOW (POORLY DRAINED), SAVANNA (TROPICAL OR SUBTROPICAL). MAY HAVE SCATTERED TREES AND/OR SCRUB GROWTH.

Fcode	Feature	Attributes/Values	Definition
5B010	GRASSLAND (Cont.)		
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	VEG	VEGETATION CHARACTERISTICS	Type or characteristic of vegetation.
		000 - UNKNOWN - - - - - - - - - - - - -	
		008 - PASTURE, MEADOW, STEPPE - - - - -	
		009 - GRASSLAND WITH SCATTERED TREES - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
5B020	SCRUB /BRUSH		LOW-GROWING MULTI-STEMMED WOODY VEGETATION.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - MEDIUM - - - - - - - - - - - - - -	> 15% and <= 50% coverage of ground surface
		004 - DENSE - - - - - - - - - - - - - - -	> 50% coverage of ground surface
		005 - NOT APPLICABLE - - - - - - - - - -	
	DMT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
5B020	SCRUB /BRUSH (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
5C010	BAMBOO CANE		WOODY, TREE-LIKE GRASS. USUALLY CHARACTERIZED BY EXTREMELY DENSE GROWTH.
	1PH DERIVED PREDOMINANT HEIGHT		For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
5C010	BAMBOO CANE (Cont.)		
	WID	WIDTH (Cont.)	
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
5C015	FIREBREAK		CLEARED AREA THROUGH OR ADJACENT TO WOODLANDS FROM WHICH TREES AND UNDERGROWTH HAVE BEEN REMOVED FOR THE PURPOSE OF IMPEDING THE PROGRESS OF FOREST FIRES.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.
		002 - BI - - - - - - - - - - - - - - - -	Visually significant or reflective from two sides only.
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Accumulative measurement along the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		010 - SOIL - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	

Pcode	Feature	Attributes/Values	Definition
5C020	OASIS		AN ISOLATED FERTILE, OR GREEN AREA IN A DESERT REGION USUALLY HAVING A SPRING OR WELL.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	VEG	VEGETATION CHARACTERISTICS	Type or characteristic of vegetation.
		000 - UNKNOWN - - - - - - - - - - - - -	
		017 - PALM - - - - - - - - - - - - - - -	Chiefly tropical and sub-tropical trees, shrubs, and vines, usually with a tall columnar trunk. The trunk is crowned by very large, pleated, fan-shaped, or feather shaped leaves.
		021 - OTHER - - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

5C030	TREES		WOODY-PERENNIAL PLANTS HAVING A SELF-SUPPORTING MAIN STEM OR TRUNK AND A DEFINITE CROWN.
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.
		000 - UNKNOWN - - - - - - - - - - - - -	
		003 - MEDIUM - - - - - - - - - - - - - -	> 15% and <= 50% coverage of ground surface
		004 - DENSE - - - - - - - - - - - - - - -	> 50% coverage of ground surface
		005 - NOT APPLICABLE - - - - - - - - - -	
	COC	CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.

Fcode	Feature	Attributes/Values	Definition
5C030	TREES (Cont.)		
	COC	CONSPICUOUS OBJECT CATEGORY (Cont.)	
		001 - CONSPICUOUS	
		002 - NOT CONSPICUOUS	
	COD	CERTAINTY OF DELINEATION	Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN	
		002 - LIMITS AND INFO UNKNOWN	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RFA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DNT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature. Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		031 - ISOLATED	
		042 - NOT ISOLATED	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other. Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or OHE, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Pcode	Feature	Attributes/Values	Definition
5C030	TREES (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK - - - - - - - - - - - - - -	
		002 - NOT LANDMARK - - - - - - - - - - - -	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	PHT PREDOMINANT HEIGHT		Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		012 - TREES - - - - - - - - - - - - - - -	>= 51% tree (canopy) cover at peak season
	SBC SHELTER BELT CONDITION		Indicates whether a linear stand of trees functions as a shelter belt, protecting roadways, railroads, cropland, construction, etc., from the effects of adverse weather.
		001 - FUNCTIONS AS A SHELTER BELT. - - -	
		002 - DOES NOT FUNCTION AS A SHELTER BELT. - - - - - - - - - - - - -	
	SD1 STEM DIAMETER SIZE RANGE (1)		Estimated range (3) of the average stem diameter size within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 0 AND <= 5.00 - - - - - - - - -	
		002 - > 5.00 AND <= 10.00 - - - - - - -	
		003 - > 10.00 AND <= 20.00 - - - - - - -	
		004 - > 20.00 AND <= 30.00 - - - - - - -	
		005 - > 30.00 AND <= 40.00 - - - - - - -	
		006 - > 40.00 AND <= 60.00 - - - - - - -	
		007 - > 60.00 - - - - - - - - - - - - - -	
	SD2 STEM DIAMETER SIZE RANGE (2)		Estimated range (2) of the average stem diameter within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - > 0 AND <= 10.00 - - - - - - - - -	
		002 - > 10.00 AND <= 30.00 - - - - - - -	
		003 - > 30.00 AND <= 60.00 - - - - - - -	
		004 - > 60.00 - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - -	
	STR SUMMER TREE COVER DENSITY CODE		Coded value indicating percent of summer canopy closure within delineated area of feature.
		001 - <= 25 - - - - - - - - - - - - - -	
		002 - > 25 AND <= 50 - - - - - - - - - -	
		003 - > 50 AND <= 75 - - - - - - - - - -	
		004 - > 75 - - - - - - - - - - - - - - -	
		005 - NOT APPLICABLE - - - - - - - - - -	
	TRE TREE CATEGORY		Type of tree coverage.
		001 - DECIDUOUS - - - - - - - - - - - - -	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
		002 - EVERGREEN - - - - - - - - - - - - -	>= 60% Evergreen tree characteristics (permanent foliage present).
		003 - MIXED - - - - - - - - - - - - - - -	An area with both Evergreen and Deciduous trees with on one type being predominant and with varying proportions between >= 40 and <= 60 percent..
	TS1 TREE SPACING RANGE (1)		Estimated range (1) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.

Fcode	Feature	Attributes/Values	Definition
5C030	TREES (Cont.)		
	TS1	TREE SPACING RANGE (1) (Cont.)	
		000 - UNKNOWN	
		001 - > 0 AND <= 1.0	
		002 - > 1.0 AND <= 2.0	
		003 - > 2.0 AND <= 3.0	
		004 - > 3.0 AND <= 5.0	
		005 - > 5.0 AND <= 7.0	
		006 - > 7.0 AND <= 10.0	
		007 - > 10.0 AND <= 15.0	
		008 - > 15.0	
	TS2	TREE SPACING RANGE (2)	Estimated range (2) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
		000 - UNKNOWN	
		001 - > 0 AND <= 3.0	
		002 - > 3.0 AND <= 6.0	
		003 - > 6.0 AND <= 10.0	
		004 - > 10.0	
		005 - NOT APPLICABLE	
	VEG	VEGETATION CHARACTERISTICS	Type or characteristic of vegetation.
		011 - CASUARINA	Tree with slender, green, deeply groved, and often drooping branches, that bears whorls of tiny, scalelike leaves and appears pine-like from afar. Found in tropical areas from E.Africa to SE Asia to NE Australia and Polynesia.
		012 - CONIFEROUS	Any woody plant that bears its seeds on hard or papery scales arranged in spirals, or whorls, around an axis, forming a cone. Most are evergreen trees and shrubs native to the Northern Hemisphere.
		016 - NIPA PALM	A dense growth of stemless palms found in tropical and semi-tropical tidal or brackish waters. It usually occurs farther inland than mangrove and generally forms stripe in channels, through which tides ebb and flow.
		017 - PALM	Chiefly tropical and sub-tropical trees, shrubs, and vines, usually with a tall columnar trunk. The trunk is crowned by very large, pleated, fan-shaped, or feather shaped leaves.
		018 - PILAO	Similar to casuarina, but with very pendulous branches.
		019 - MANGROVE	A thick growth of trees with tangled aerial roots, which appears in tropical and semi-tropical regions. It occurs in low lying areas along the banks of tidal waters up to the limits of the tidal influence.
		020 - CYPRUS	Evergreen conifers, often 25 meters tall, that are pyramidal in shape, especially when young. At maturity, some develop flattened spreading heads.
		021 - OTHER	
		031 - EUCALYPTUS	Large native trees to Australia, New Zealand, Tasmania, and nearby islands. Their leaves are leatherery and hang obliquely or vertically.
	VH1	PREDOMINANT VEGETATION HEIGHT RANGE (1)	Range of predominant height (in meters) of vegetation within delineated area of feature (First Range).
		001 - >0 AND <= 5	
		002 - > 5 AND <=10	
		003 - > 10 AND <= 20	
		004 - > 20 AND <= 40	
		005 - > 40	
		006 - NOT APPLICABLE	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTR	WINTER TREE COVER DENSITY CODE	Coded value indicating percent of winter canopy closure within delineated area of feature.
		001 - <= 25	
		002 - > 25 AND <= 50	
		003 - > 50 AND <= 75	
		004 - > 75	
		005 - NOT APPLICABLE	

Fcode	Feature	Attributes/Values	Definition
5D010	BOG		A POORLY DRAINED OR PERIODICALLY FLOODED AREA OF SOFT, WET, SPONGY GROUND CONSISTING OF PEAT WHICH SUPPORTS MOSSES, HERBACEOUS VEGETATION, AND IN SOME CASES WOODY SHRUB VEGETATION AND/OR TREES.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	VEG	VEGETATION CHARACTERISTICS	Type or characteristic of vegetation.
		006 - CRANBERRY 007 - PEAT	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
5D020	HUMMOCK		AN AREA OF HIGHER ELEVATION WITHIN A SWAMP, BOG, OR MARSH, EXISTING AS AN "ISLAND" OF VEGETATION WITHIN SURROUNDING FEATURE.
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
5D030	SWAMP		A LOW LYING AREA OF SATURATED GROUND COVERED WITH SHALLOW WATER AND SUPPORTING WOODY VEGETATION.
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.

Fcode	Feature	Attributes/Values	Definition
5D030	SWAMP (Cont.)		
	BUD	BRUSH /UNDERGROWTH DENSITY CODE (Cont.)	
		000 - UNKNOWN	
		003 - MEDIUM	> 15% and <= 50% coverage of ground surface
		004 - DENSE	> 50% coverage of ground surface
		005 - NOT APPLICABLE	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).
			Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0-Offshore or on shoreline, 9998-All values > 9997 or N/A.	
		Range: 1...9997	
	DNT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Boat Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		011 - MARSH	>= 51% of marsh surface characteristic (moist, wet, spongy, low-lying ground) and generally not suitable for cultivation without being drained
	STR	SUMMER TREE COVER DENSITY CODE	Coded value indicating percent of summer canopy closure within delineated area of feature.
		001 - <= 25	
		002 - > 25 AND <= 50	
		003 - > 50 AND <= 75	
		004 - > 75	
		005 - NOT APPLICABLE	
	TID	TIDAL /NON-TIDAL CATEGORY	Identifies whether a feature is affected by tidal water.
		001 - NON-TIDAL	
		002 - TIDAL /TIDAL FLUCTUATING	
	TRE	TREE CATEGORY	Type of tree coverage.
		000 - UNKNOWN	
		001 - DECIDUOUS	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
		002 - EVERGREEN	>= 60% Evergreen tree characteristics (permanent foliage present).
		003 - MIXED	An area with both Evergreen and Deciduous trees with on one type being predominant and with varying proportions between >= 40 and <= 60 percent..
	VH1	PREDOMINANT VEGETATION HEIGHT RANGE (1)	Range of predominant height (in meters) of vegetation within delineated area of feature (First Range).

Fcode	Feature	Attributes/Values	Definition
5D030	SWAMP (Cont.)		
	VH1	PREDOMINANT VEGETATION HEIGHT RANGE (1) (Cont.)	
		001 - >0 AND <= 5 002 - > 5 AND <=10 003 - > 10 AND <= 20 004 - > 20 AND <= 40 005 - > 40 006 - NOT APPLICABLE	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) 008 - COVERS AND UNCOVERS 009 - NOT APPLICABLE	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTR	WINTER TREE COVER DENSITY CODE	Coded value indicating percent of winter canopy closure within delineated area of feature.
		001 - <= 25 002 - > 25 AND <= 50 003 - > 50 AND <= 75 004 - > 75 005 - NOT APPLICABLE	
5D040	MARSH		A WET INUNDATED REGION THAT IS VOID OF WOODY VEGETATION AND GENERALLY CHARACTERIZED BY GRASSES, REEDS, AND OTHER HERBACEOUS VEGETATION.
	1PH	DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate. Increment: Limits: N/A Variance: N/A
		Range: 0...511	
	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	DFS	DISTANCE FROM SHORELINE	Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2HD20, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RFA=001). Increment: 1 Meter Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature. Variance: N/A
		Default: 0=Offshore or on shoreline, 9998=All values > 9997 or N/A. Range: 1...9997	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature. Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
5D040	MARSH (Cont.)		
	HYC	HYDROGRAPHIC CATEGORY	Identifies the annual water content of the feature.
		006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - -	Contains flowing or standing water less than six months per year.
		008 - PERENNIAL /PERMANENT - - - - - - -	Contains flowing or standing water six months or more per year.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		011 - MARSH - - - - - - - - - - - - - -	>= 51% of marsh surface characteristic (moist, wet, spongy, low-lying ground) and generally not suitable for cultivation without being drained
	TID	TIDAL /NON-TIDAL CATEGORY	Identifies whether a feature is affected by tidal water.
		001 - NON-TIDAL - - - - - - - - - - - -	
		002 - TIDAL /TIDAL FLUCTUATING - - - - - -	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - -	
		008 - COVERS AND UNCOVERS - - - - - - - -	
		009 - NOT APPLICABLE - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

5ED10 LAND USE /LAND COVER (VEGETATION)

THEMATIC CLASSIFICATION OF THE PREDOMINANT VEGETATION AND LAND USE CHARACTERISTICS OF THE LAND SURFACE COVER.

	ARA	AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	BUD	BRUSH /UNDERGROWTH DENSITY CODE	A qualitative descriptor indicating the density of undergrowth or brush /scrub.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - OPEN - - - - - - - - - - - - - -	<= 5% coverage of ground surface
		002 - SPARSE - - - - - - - - - - - - -	> 5% and <= 15% coverage of ground surface
		003 - MEDIUM - - - - - - - - - - - - -	> 15% and <= 50% coverage of ground surface
		004 - DENSE - - - - - - - - - - - - - -	> 50% coverage of ground surface
		005 - NOT APPLICABLE - - - - - - - - - -	
	SD3	STEM DIAMETER SIZE RANGE (3)	Estimated range (3) of the average stem diameter within area of feature, determined in centimeter (0.01 meter) ranges at a distance of 1.4 meters above the ground.

Fcode	Feature	Attributes/Values	Definition
5E010	LAND USE /LAND COVER (VEGETATION) (Cont.)		
	SD3 STEM DIAMETER SIZE RANGE (3) (Cont.)		
		000 - UNKNOWN	
		001 - > 0 AND <= 2.00	
		002 - > 2.00 AND <= 4.00	
		003 - > 4.00 AND <= 6.00	
		004 - > 6.00 AND <= 8.00	
		005 - > 8.00 AND <= 10.00	
		006 - > 10.00 AND <= 12.00	
		007 - > 12.00 AND <= 15.00	
		008 - > 15.00 AND <= 20.00	
		009 - > 20.00 AND <= 25.00	
		010 - > 25.00 AND <= 30.00	
		011 - > 30.00 AND <= 40.00	
		012 - > 40.00 AND <= 50.00	
		013 - > 50.00 AND <= 60.00	
		014 - > 60.00 AND <= 80.00	
		015 - > 80.00 AND <= 100.00	
		016 - > 100.00	
		017 - NOT APPLICABLE	
	SDS STEM DIAMETER SIZE		Average stem diameter at breast height (dbh, approximately 1.37 meters above ground) of the trees within area of feature. Increment: 0.01 Meter Limits: Average of measured, estimated, and/or calculated horizontal tree diameters at breast height (dbh) within mapped area. Variance: For trees <= 2 meters high measurement is taken half way up stem.
		Range: > 0...No Upper Limit	
	STR SUMMER TREE COVER DENSITY CODE		Coded value indicating percent of summer canopy closure within delineated area of feature.
		001 - <= 25	
		002 - > 25 AND <= 50	
		003 - > 50 AND <= 75	
		004 - > 75	
		005 - NOT APPLICABLE	
	TS3 TREE SPACING RANGE (3)		Estimated range (3) of the average distance between trees in a stand, determined in decimeter (0.1 meter) ranges from center to center of adjacent trees.
		000 - UNKNOWN	
		001 - > 0 AND <= 5.0	
		002 - > 5.0 AND <= 10.0	
		003 - > 10.0 AND <= 15.0	
		004 - > 15.0 AND <= 20.0	
		005 - > 20.0 AND <= 25.0	
		006 - > 25.0 AND <= 30.0	
		007 - > 30.0 AND <= 35.0	
		008 - > 35.0 AND <= 40.0	
		009 - > 40.0 AND <= 50.0	
		010 - > 50.0 AND <= 60.0	
		011 - >60.0 AND <= 70.0	
		012 - > 70.0 AND <= 80.0	
		013 - > 80.0 AND <= 100.0	
		014 - > 100.0 AND <= 150.0	
		015 - > 150.0	
		016 - NOT APPLICABLE	
	TSD TREE SPACING DISTANCE		Average distance between adjacent tree centerlines within area of feature. Increment: 0.1 Meter Limits: Average of measured, estimated, and/or calculated horizontal distance between the cross-section centers of adjacent trees. Variance: Different sampling reduction methods used for trees in managed wooded areas as opposed to those growing naturally.
		Range: > 0...No Upper Limit	
	VGC VEGETATION TYPE CATEGORY		Predominant vegetation type or characteristics within the delineated area of the feature.
		001 - AGRICULTURE (DRY CROPS)	An area of cultivated crops, such as grains, tubers, legumes, and vegetables, grown in moist or dry conditions, including ground left fallow on a seasonal basis.
		002 - AGRICULTURE (WET CROPS)	An area of cultivated crops grown in a wet environment, generally flooded in the spring and kept saturated until harvest time. Small dikes or walls often enclose the area, such as rice paddies.

Fcode	Feature	Attributes/Values	Definition
5E010	LAND USE /LAND COVER (VEGETATION) (Cont.)		
	VGC VEGETATION TYPE CATEGORY (Cont.)		
		003 - AGRICULTURE (TERRACED CROPS, WET & DRY)	Raised areas of wet or dry cropland supported by embankments or retaining walls, usually found in small mountain valleys and on hillsides world wide, forming a step-like effect.
		004 - AGRICULTURE (SHIFTING CULTIVATION)	An area where the predominant vegetation is removed by cutting, burning, etc., and crops are planted in its place. As soil nutients are exhausted in 2 to 5 growing seasons, fields are abandoned, and secondary succession begins...
		005 - AGRICULTURE WITH SCATTERED WOODLOTS	Area with cropland as the predominant vegetation with 25-50% of the area covered with scattered woodlots. Woodlots are intermixed with with cropland throughout the area.
		006 - AGRICULTURE WITH SCATTERED TREES / ROWS OF TREES	Area with cropland as the predominant vegetation with 0-25% of the area covered with scattered trees or rows of trees along roads and field borders. Rows of trees and/or individual trees are dispersed throughout the area.
		007 - AGRICULTURE (DITCH IRRIGATION)	Cropland in areas irrigated by water channeled in small ditches or furrows, which are usually 10 to 20 cm deep and 100 to 400 m long, with centers spaced 75 to 150 cm apart. It can occur in all climatic regions.
		008 - BRUSHLAND (SPARSE TO MEDIUM SPACING)	Area of predominantly low-growing (< 5m high) multi-stemmed woody vegetation and/or scrub growth with > 5% and <= 50% ground coverage (BUD 002 or 003). Vegetation types include heath, shrubs, thickets, cactus, sagebrush, etc.
		009 - BRUSHLAND (DENSE SPACING)	Area of predominantly low-growing (< 5m high) multi-stemmed woody vegetation and/or scrub growth with > 50% ground coverage (BUD 004). Vegetation types include heath, shrubs, thickets, cactus, sagebrush, etc.
		010 - EVERGREEN /CONIFEROUS FOREST	An area where >= 60% of the trees retain their foliage throughout the year. Category includes evergreen/coniferous trees, as well as broadleaf evergreens, such as Live Oak, Holly Oak, and tropical Magnolia, Ebony, Mahogany, etc.
		011 - DECIDUOUS FOREST	An area where >= 60% of the trees lose their foliage seasonally. Category includes broadleaf deciduous trees, as well as deciduous conifers, such as Redwood and Larch.
		012 - MIXED FOREST (EVERGREEN /DECIDUOUS)	An area containing both Evergreen and Deciduous trees where neither is predominant and with varying proportions of each between >= 40 and <= 60 percent.
		013 - ORCHARD /PLANTATION /NURSERY (FRUIT,NUTS,RUBBER PALM ETC.)	Area of systematic plantings of evenly spaced rows of perennial trees, which yield fruits, nuts, spices, or other commercial products exclusive of timber, grapes or hops. Tree nurseries are also included.
		014 - GRASSLAND, PASTURE, MEADOW	An extensive area of herbaceous plants consisting primarily of grass varieties. Common middle latitude names include prairie (tall grass >= 1 m) and steppe (short grass < 1m). Poorly drained grasslands often develop into meadows.
		015 - GRASSLAND WITH SCATTERED TREES AND /OR SCRUB GROWTH	Primarily an uncultivated grassland with widely spaced, scattered trees (max. canopy closure <= 10%) and/or scrub growth intermixed throughout the area, such as early secondary succession in abandoned fields and tropical savanna.
		016 - FOREST CLEARING (CUTOVER AREAS, BURNS, ETC.)	An area where a section of forest has been either burned or cleared off. As secondary succession or silviculture practices quickly change these areas, this code should only be used if area is not better describe by another code.
		017 - SWAMP (EVERGREEN/CONIFEROUS)	A low lying saturated area, intermittently/perennially covered with shallow water, and characterized by the slow decay of dead vegetation and a predominant growth of hydrophytic evergreen trees and/or shrubs, such as Black Spruce.
		018 - SWAMP (DECIDUOUS)	A low lying saturated area, similar to the above, but with a predominant growth of hydrophytic deciduous trees and/or shrubs, such as Bald Cypress with buttressed trunks and vertical knees.
		019 - SWAMP (MIXED)	A low lying saturated area, similar to the above, but characterized by a mixed growth of both evergreen and deciduous hydrophytic trees and/or shrubs, in varying proportions of each between >= 40 and <= 60 percent.
		020 - SWAMP (MANGROVE)	A low lying saturated area, found along tropical and semi-tropical seacoasts and banks of tidewater streams, and characterized by a dense growth of trees with tangled aerial roots, such as Mangrove trees.
		021 - SWAMP (NIPA)	A low lying saturated area characterized by a dense growth of evergreen stemless palms, found in tropical and semi-tropical tidal and brackish waters, inland of mangrove and forms strips in channels due to tidal water flow.
		022 - BOG	A permanently wet, poorly drained or periodically flooded, area of soft, wet, spongy ground of peat that supports mosses, herbaceous vegetation, and sometimes woody shrub vegetation or trees, on an accumulation of organic matter.
		023 - MARSH	A wet or periodically inundated region that is usually void of woody vegetation and generally characterized by grasses, sedges, reeds, and other herbaceous vegetation. Both tidal and non-tidal areas are included in this category.

Fcode	Feature	Attributes/Values	Definition
5ED10	LAND USE /LAND COVER (VEGETATION) (Cont.)		
	VGC VEGETATION TYPE CATEGORY (Cont.)		
		024 - VINEYARD /HOPS - - - - - - - - - -	Area covered by a systematic planting of perennial vinelike vegetation, such as grapes or hops. Vienyards have closely spaced rows of supported vines (<= 2 m high), while hops grow in rows supported by poles (3 to 4 m high).
		025 - BAMBOO /WILD CANE - - - - - - - -	A woody grass or reed widely distributed in the tropics or subtropics and usually characterized by extremely dense growth with a height range of 3 to 30 meters. This category also includes sugar cane.
		026 - BARE GROUND - - - - - - - - - - -	Permanently bare areas characterized by little or no vegetation (< 5 %), such as salt pans, sand dunes, beaches, talus slopes, lava flows, rock outcrops, quarries, strip mines, permanent snowfields, glaciers, barren tundra, etc.
		027 - WET TUNDRA - - - - - - - - - - - -	Flat to undulating treeless plains of low topographic relief in arctic and subarctic regions, characterized by frozen to wet topsoils over permafrost -supports sedges, rooted aquatic plants and a few shrubby plants on drier sites.
		028 - HERBACEOUS TUNDRA - - - - - - - -	Tundra area, similar to the above, characterized by non-woody vegetation associations of mosses, lichens, sedges, and grasses often forming a continous ground cover with minor occurrences of low (<0.5 m) woody shrubs and thickets.
		029 - BRUSH/SHRUB TUNDRA - - - - - - - -	Tundra area, similar to the above, with vegetation dominated by scattered to dense woody shrubs and thickets, usually in association with mosses, sedges, and grasses.
		030 - ALPINE TUNDRA - - - - - - - - - -	Normally dry arctic-like areas with sparse veg. growing closely matted to the ground. Higher elev veg. is scattered among barren rocks and rock outcrops, commonly incl.moot.lichens, & herbs, & grasses,sedges on rocks,sand,gravel.
		031 - EVERGREEN/CONIFEROUS ORCHARD/ PLANTATION/NURSERY - - - - - - -	Area where >60 percent of commerical trees retain their foliage throughout the year. Both broadleaf and coniferous evergreen trees are included in this category.
		032 - DECIDUOUS ORCHARD/PLANTATION/ NURSERY - - - - - - - - - - - -	Area where >60 percent of commerical trees lose their foliage on a seasonal basis. This class includes both broadleaf and coniferous deciduous trees.
		033 - MIXED ORCHARD/PLANTATION/NURSERY -	Area with both evergreen/coniferous and deciduous commerical trees, where neither is predominant, in proportions of each varying between >=40 and <=60 percent.
		034 - PALM ORCHARD/PLANTATION/NURSERY -	Planting of normally evergreen commerical trees with simple stems and crown of large fan-shaped leaves found in tropical and subtropical climatic zones. Some better known products are bananas, coconuts, oils, and dates.
		035 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		036 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		037 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		038 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		039 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		040 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		041 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		042 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		043 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		044 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		045 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		046 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		047 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		048 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		049 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
		050 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - -	
	VH3 PREDOMINANT VEGETATION HEIGHT RANGE (3) ...		Range of predominant height (in meters) of vegetation within delineated area of feature (Thrid Range).
		001 - <= 2 - - - - - - - - - - - - - - -	
		002 - > 2 AND <= 5 - - - - - - - - - - -	
		003 - > 5 AND <= 10 - - - - - - - - - - -	
		004 - > 10 AND <= 15 - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
5E010	LAND USE /LAND COVER (VEGETATION) (Cont.)		
	VH3 PREDOMINANT VEGETATION HEIGHT RANGE (3) (Cont.)		
		005 - > 15 AND <= 20	
		006 - > 20 AND <= 30	
		007 - > 30 AND <= 40	
		008 - > 40	
		009 - > 20 AND <= 25	
		010 - > 25 AND >= 30	
		011 - > 30 AND <= 35	
		012 - > 35 AND <= 40	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WTR WINTER TREE COVER DENSITY CODE		Coded value indicating percent of winter canopy closure within delineated area of feature.
		001 - <= 25	
		002 - > 25 AND <= 50	
		003 - > 50 AND <= 75	
		004 - > 75	
		005 - NOT APPLICABLE	

Fcode	Feature	Attributes/Values	Definition
6A000	ADMINISTRATIVE BOUNDARY		A LINE OF DEMARCATION BETWEEN POLITICAL AREAS.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	BST	BOUNDARY STATUS TYPE	Identifies the status of a boundary.
		001 - DEFINITE - - - - - - - - - - - - -	A boundary that exists, and is neither indefinite or in dispute.
		002 - INDEFINITE - - - - - - - - - - - -	A boundary that is undetermined or vague and cannot be plotted precisely; Although not actually disputed, no approved or specific boundary exists.
		003 - IN DISPUTE - - - - - - - - - - - -	A boundary in which involved countries are actively seeking an alteration in the status quo of the boundary.
		004 - NO DEFINED BOUNDARY - - - - - - - -	A division between two countries where no defined boundary exists.
	NM3	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - - -	
	NM4	NAME 4	Name of the political entity on the other side of the boundary.
		000 - ANY NAME - - - - - - - - - - - - -	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		016 - CITY - - - - - - - - - - - - - - -	
		023 - INTERNATIONAL - - - - - - - - - -	
		026 - PRIMARY /1ST ORDER - - - - - - - -	First major Administrative division of a Nation State.
		030 - 2ND ORDER - - - - - - - - - - - -	The largest division of a Primary /1st Order unit.
		031 - 3RD ORDER - - - - - - - - - - - -	
		032 - INSULAR - - - - - - - - - - - - -	Of or pertaining to an island.
		089 - RESERVE AREA - - - - - - - - - -	
		090 - TRIBAL RESERVATION - - - - - - - -	
		091 - PROHIBITED AREA - - - - - - - - -	
		092 - ANIMAL SANCTUARY - - - - - - - - -	
		093 - FOREST PRESERVE - - - - - - - - -	
6A020	ARMISTICE LINE		A LINE ESTABLISHED BY OPPOSING POLITICAL GROUPS AS A RESULT OF CESSATION OF HOSTILITIES.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	NM3	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - - -	
	NM4	NAME 4	Name of the political entity on the other side of the boundary.
		000 - ANY NAME - - - - - - - - - - - - -	
6A030	CEASE-FIRE LINE		A LINE ALONG WHICH ACTIVE HOSTILITIES ARE SUSPENDED.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
6A040	CLAIM LINE		A LIMIT OF AN AREA WHICH IS UNILATERALLY CLAIMED BY ONE POLITICAL GROUP WITHOUT CONSENT OR NEGOTIATION WITH ANOTHER.
	NM3	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - -	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
6A050	INTERNATIONAL MARITIME BOUNDARY		A BOUNDARY ESTABLISHED IN OPEN WATER BETWEEN TWO COASTAL NATIONS.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	NM3	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - -	
	NM4	NAME 4	Name of the political entity on the other side of the boundary.
		000 - ANY NAME - - - - - - - - - - - -	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
6A060	DEFACTO BOUND. /OTHER LINE OF SEPARATION		AN EXISTING LINE OF SEPARATION NOT OFFICIALLY RECOGNIZED BY VARIOUS GOVERNMENTS.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - -	
	NM3	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - -	
	NM4	NAME 4	Name of the political entity on the other side of the boundary.
		000 - ANY NAME - - - - - - - - - - - -	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION - - - - - - - - -	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		023 - INTERNATIONAL - - - - - - - - - -	
		026 - PRIMARY /1ST ORDER - - - - - - - -	First major Administrative division of a Nation State.
		030 - 2ND ORDER - - - - - - - - - - - -	The largest division of a Primary /1st Order unit.
		031 - 3RD ORDER - - - - - - - - - - - -	
6A070	DEMILITARIZED ZONE		AN AREA WHERE MILITARY ACTIVITY IS PROHIBITED.

Pcode	Feature	Attributes/Values	Definition
6A070	DEMILITARIZED ZONE (Cont.)		
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
6A110	INTERNATIONAL DATE LINE		A LINE GENERALLY COINCIDING WITH THE 180TH MERIDIAN, MODIFIED TO AVOID LAND, AND DESIGNATED AS THE PLACE WHERE EACH CALENDAR DAY BEGINS.
6A170	ZONE OF OCCUPATION		AN AREA TEMPORARILY HELD AND CONTROLLED BY A FOREIGN MILITARY FORCE.
	ACC	ACCURACY CATEGORY	Accuracy of geographic position.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - ACCURATE - - - - - - - - - - - - -	
		002 - APPROXIMATE - - - - - - - - - - - -	
	NAM	NAME 3	Name of the political entity on one side of a boundary.
		000 - ANY NAME - - - - - - - - - - - - -	
6C020	COLREGS DEMARCATION LINE		A DEMARCATION LINE DELINEATING WATERS WHERE MARINERS MUST COMPLY WITH THE "INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA," (72 COLREGS) AND "NAVIGATION RULES FOR HARBORS, RIVERS, & INLAND WATERS" (INLAND RULES).
6C030	CUSTOMS BOUNDARY		A LINE DELIMITING AN AREA IN WHICH THE CUSTOMS SERVICE EXERCISES ITS LAWFULRIGHT TO OBEDIENCE OF ANY VESSEL TO CUSTOM REGULATIONS OR LAWS.
6C035	DIRECTION OF BUOYAGE INDICATOR		A SYMBOL SHOWN ON A CHART TO INDICATE THE DIRECTION OF A LATERAL BUOYAGE SYSTEM, SUCH AS THE THE INTERNATIONAL ASSOCIATION OF LIGHTHOUSE AUTHORITIES (IALA) LATERAL SYSTEM.
	DOF	DIRECTION OF FLOW	Azimuth of movement or direction of the flow.
			Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
		Range: 0...359	

Fcode	Feature	Attributes/Values	Definition
6C040	DREDGED CHANNEL /DREDGED AREA		AN AREA OR CHANNEL OF WATER WHERE SOLID MATTER WAS REMOVED FROM THE BOTTOMTO PROVIDE AN ADEQUATE DEPTH OF WATER FOR NAVIGATION.
	ATN	AIDS TO NAVIGATION	Indication of whether a feature is marked or unmarked by navigation aids.
		001 - MARKED - - - - - - - - - - - - - - -	
		002 - UNMARKED - - - - - - - - - - - - - -	
	DAN	DESCRIPTION OF AIDS TO NAVIGATION	Textual description of aids to navigation marking a feature, eg. "Marked by buoys".
		000 - ANY DESCRIPTION - - - - - - - - -	
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - - -	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum. Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	MAS	MAINTENANCE STATUS	Indicates whether the feature is maintained.
		001 - MAINTAINED - - - - - - - - - - - -	
		002 - NOT MAINTAINED - - - - - - - - - -	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		004 - INDIAN SPRING LOW WATER - - - - - -	
		011 - MEAN LOW WATER - - - - - - - - - - -	
		013 - MEAN LOW WATER SPRINGS - - - - - - -	
		014 - MEAN LOWER LOW WATER - - - - - - - -	
		015 - MEAN SEA LEVEL - - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - - -	
		025 - MEAN LOWER LOW WATER SPRINGS - - - -	
		027 - LOWEST NORMAL LOW WATER - - - - - -	
		029 - LOWEST LOW WATER - - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

6C070	HARBOR LIMIT	A LINE WHICH DEFINES A HARBOR, IN WHICH SPECIAL REGULATIONS ARE ENFORCED.

Fcode	Feature	Attributes/Values	Definition
6C075	INSHORE TRAFFIC ZONE		ROUTING MEASURE COMPRISING A DESIGNATED AREA BETWEEN THE LANDWARD BOUNDARY OF A TRAFFIC SEPARATION SCHEME (SEE 6C180) AND THE ADJACENT COAST. INTENDED FOR LOCAL TRAFFIC.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	TSP	TRAFFIC SCHEME PART	Component of the traffic routing system. 002 - OUTER BOUNDARY 003 - SEPARATION ZONE AREA 004 - SEPARATION ZONE LINE
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit

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6C090	MARITIME LIMIT		AN AREA OR BOUNDARY OF AN AREA IN WHICH CERTAIN ACTIVITIES OR FACTORS OF SIGNIFICANCE TO NAVIGATION OR EXPLOITATION OF THE SEA APPLY.
	AOO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded. Default: 360 Range: 0...179
	COD	CERTAINTY OF DELINEATION	Indicates knowledge of the feature's limits or information. 001 - LIMITS AND INFO KNOWN 002 - LIMITS AND INFO UNKNOWN
	HOC	HYDROGRAPHIC ORIGIN CATEGORY	Origin of the feature. 004 - MAN-MADE - Limit not determined by configuration of bottom. 005 - NATURAL - Limit determined by physical configuration of the bottom.
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A Range: > 0...No Upper Limit
	MLT	MARITIME LIMIT TYPE	Type of limit or activity involved. 001 - OTHER 002 - FAIRWAY 003 - TURNING AREA 004 - SPOIL AREA 005 - UNSURVEYED AREA 011 - SUBMARINE EXERCISE AREA 012 - MINE LAYING PRACTICE AREA 013 - FIRING DANGER AREA 014 - PRECAUTIONARY AREA

Fcode	Feature	Attributes/Values	Definition
6C090	MARITIME LIMIT (Cont.)		
	MLT	MARITIME LIMIT TYPE (Cont.)	
		015 - DUMPING GROUND FOR HAZARDOUS MATERIAL	
		016 - DREDGING AREA	
		017 - INCINERATION AREA	
		018 - OIL /GAS FIELD	
		019 - PILOT BOARDING AREA	
		020 - DEGAUSSING RANGE	
		021 - FISH TRAP AREA	
		022 - MARINE FARM	
		023 - CARGO TRANSHIPMENT AREA	
		024 - LOG POND	
		025 - U.S. EXCLUSIVE ECONOMIC ZONE (EEZ)	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	OPS	OPERATIONAL STATUS	Indicates whether or not the feature is in operation.
		001 - OPERATIONAL	
		002 - NON-OPERATIONAL	
	PBV	PILOT BOARDING VEHICLE	The method by which pilots are transferred to and from ships using pilot services.
		001 - BY BOAT	
		002 - BY HELICOPTER	
		003 - NOT APPLICABLE	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN	
		002 - AMMUNITION	
		006 - CHEMICAL	
		011 - EXPLOSIVES	
		019 - OTHER	
		045 - NONE	
	TXT	TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

6C100	MEASURED DISTANCE LINE		A COURSE WHOSE LENGTH HAS BEEN ACCURATELY MEASURED AND IS USED IN CONJUCTION WITH RANGES ASHORE. IT IS USED BY VESSELS TO CALIBRATE LOGS, ENGINE REVOLUTION COUNTERS, ETC., AND DETERMINE SPEED.
	BRR	BEARING AND RECIPROCAL CATEGORY	True course of a vessel in .1 degree increments, when proceeding along a track or route, followed by its reciprocal bearing (ie. 053.1-232.9).
		000 - ANY SET OF BEARINGS	
	LOR	LENGTH OF RANGE	Length of range, established by aids to navigation on the shore.
			Increment: 1 Unit (UNI) Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	UNI	UNITS CATEGORY	Unit of measure.

Fcode	Feature	Attributes/Values	Definition
6C100	MEASURED DISTANCE LINE (Cont.)		
	UNI UNITS CATEGORY (Cont.)		
		006 - FEET	
		010 - KILOMETERS	
		013 - METERS	
		017 - NAUTICAL MILES	
		022 - YARDS	

6C110 MINE DANGER AREA

AN AREA WHERE MINES ARE KNOWN TO EXIST OR ARE SUSPECTED OF BEING LAID AND IS CONSIDERED HAZARDOUS TO SHIP NAVIGATION.

ACO ANGLE OF ORIENTATION .....

The angular orientation of a feature with respect to true north.

Increment: 1 Degree
Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature.
Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.

Default: 360
Range: 0...179

COD CERTAINTY OF DELINEATION .....

Indicates knowledge of the feature's limits or information.

001 - LIMITS AND INFO KNOWN
002 - LIMITS AND INFO UNKNOWN

EXS EXISTENCE CATEGORY .....

The state or condition of the feature.

001 - DEFINITE
003 - REPORTED

LEN LENGTH /DIAMETER .....

A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Increment: 1 Meter
Limits: Measured against the longest axis of a Best Fitting Rectangle.
Variance: N/A

Range: > 0...No Upper Limit

MAS MAINTENANCE STATUS .....

Indicates whether the feature is maintained.

001 - MAINTAINED
002 - NOT MAINTAINED

WID WIDTH .....

A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Increment: 1 Meter
Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle.
Variance: N/A

Range: > 0...No Upper Limit

6C120 PROHIBITED AREA

AN AREA FOR WHICH ENTRY IS PROHIBITED.

ACO ANGLE OF ORIENTATION .....

The angular orientation of a feature with respect to true north.

Increment: 1 Degree
Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature.
Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.

Default: 360
Range: 0...179

Fcode	Feature	Attributes/Values	Definition
6C120	PROHIBITED AREA (Cont.)		
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
6C130	RADAR REFERENCE LINE		A LINE SHOWN ON A CHART IN PROXIMITY TO A SHIPPING ROUTE, ALONG WHICH SHIPSARE GUIDED BY A TRAFFIC CONTROL CENTER LOCATED IN A RADAR STATION.
	BRR BEARING AND RECIPROCAL CATEGORY		True course of a vessel in .1 degree increments, when proceeding along a track or route, followed by its reciprocal bearing (ie. 053.1-232.9).
		000 - ANY SET OF BEARINGS - - - - - - -	
6C150	RESTRICTED AREA		AN AREA IN WHICH CERTAIN ASPECTS OF NAVIGATION ARE RESTRICTED.
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north. Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	DTC DANGER /OBSTRUCTION CATEGORY		Type of obstruction, danger, or restriction.
		012 - CABLE AREA - - - - - - - - - - - - 013 - PIPELINE AREA - - - - - - - - - - - 014 - FISHING PROHIBITED - - - - - - - - - 015 - CABLES AND PIPELINES - - - - - - - - 016 - OTHER - - - - - - - - - - - - - - - 017 - ANCHORING PROHIBITED - - - - - - - - 018 - IMO AREA TO BE AVOIDED - - - - - - - 019 - SAFETY ZONE - - - - - - - - - - - 020 - OUTFALL AREA - - - - - - - - - - - 021 - INTAKE AREA - - - - - - - - - - - 022 - SEWER AREA - - - - - - - - - - -	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Fcode	Feature	Attributes/Values	Definition
6C150	RESTRICTED AREA (Cont.)		
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		000 - UNKNOWN	
		006 - CHEMICAL	
		012 - NATURAL GAS	
		013 - GASOLINE	
		018 - OIL	
		021 - RADIOACTIVE MATERIAL	
		027 - WATER	
	RAA	RESTRICTED AREA ATTRIBUTE	Textual description of the activity which is prohibited within the feature.
		000 - ANY DESCRIPTION	
	USE	USE STATUS	Identifies the primary user, function, or controlling authority.
		010 - OTHER	
		051 - TELEGRAPH	
		052 - TELEPHONE	
		053 - POWER	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
6C160	ROUNDABOUT		ROUTING SYSTEM RESTRICTING SHIP MOVEMENT TO A COUNTERCLOCKWISE DIRECTION.
	IAS	IMO APPROVAL STATUS	Status of International Maritime Organization approval.
		001 - APPROVED	
		002 - NOT APPROVED	
	TSP	TRAFFIC SCHEME PART	Component of the traffic routing system.
		001 - ARROW	
		002 - OUTER BOUNDARY	
		003 - SEPARATION ZONE AREA	
		005 - SEPERATION ZONE POINT	
6C165	ROUTE		A TRACK, LANE, OR DIRECTION OF TRAFFIC ESTABLISHED FOR THE SAFE PASSAGE OF SHIP, DOES NOT INCLUDE SAFETY FAIRWAY (6C170).
	ATN	AIDS TO NAVIGATION	Indication of whether a feature is marked or unmarked by navigation aids.
		001 - MARKED	
		002 - UNMARKED	
	BRR	BEARING AND RECIPROCAL CATEGORY	True course of a vessel in .1 degree increments, when proceeding along a track or route, followed by its reciprocal bearing (ie. 053.1-232.9).
		000 - ANY SET OF BEARINGS	
	BRS	BEARING FROM SEAWARD	True course of a vessel, in .1 degree increments, when proceeding along a track or route.

Fcode	Feature	Attributes/Values	Definition
6C165	ROUTE (Cont.)		
	BRS	BEARING FROM SEAWARD (Cont.)	
		000 - ANY SET OF BEARINGS - - - - - - -	
	DAN	DESCRIPTION OF AIDS TO NAVIGATION	Textual description of aids to navigation marking a feature, eg. 'Marked by buoys'.
		000 - ANY DESCRIPTION - - - - - - - - -	
	DOF	DIRECTION OF FLOW	Azimuth of movement or direction of the flow.
			Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	DRP	DESCRIPTION OF REFERENCE POINT	Description of the feature(s) which form a Leading Line or Clearing Line.
		000 - ANY DESCRIPTION - - - - - - - - -	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		022 - ONE WAY - - - - - - - - - - - - -	
		023 - TWO WAY - - - - - - - - - - - - -	
	HDI	HYDROGRAPHIC DEPTH /HEIGHT INFORMATION	Information about the accuracy or availability of depth or uncovering height of a feature.
		009 - DEPTH KNOWN - - - - - - - - - - -	
		012 - DEPTH UNKNOWN - - - - - - - - - -	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum.
			Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown, 12000.1=Not Applicable Range: 0.1...12000.0	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	RTT	ROUTE TYPE ATTRIBUTE	Intended use or type of route.
		002 - RECOMMENDED TRACK FOR OTHER THAN DEEP DRAFT VESSELS - - - - - - -	
		003 - RECOMMENDED TRACK FOR DEEP DRAFT VESSELS - - - - - - - - - - - -	A track or line which a deep draft vessel must stay on to pass through a dangerous area.
		004 - DEEP WATER ROUTE - - - - - - - - - -	An area in which it is safe to navigate a deep draft vessel.
		005 - RECOMMENDED ROUTE - - - - - - - - -	A route, such as a transit route, of undefined width, often marked by centerline buoys. In contrast to recommended tracks, there is usually ample sea room for vessels to keep to the right of the centerline at all times.
		006 - RECOMMENDED DIRECTION OF TRAFFIC FLOW - - - - - - - - - - - - - -	
		007 - TWO WAY ROUTE - - - - - - - - - -	
		008 - MINESWEPT CHANNEL - - - - - - - - -	A path through a minefield or former minefield that has been cleared of mines.
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - -	
		004 - INDIAN SPRING LOW WATER - - - - - -	
		011 - MEAN LOW WATER - - - - - - - - - -	
		013 - MEAN LOW WATER SPRINGS - - - - - -	
		014 - MEAN LOWER LOW WATER - - - - - - -	
		015 - MEAN SEA LEVEL - - - - - - - - - -	
		023 - OTHER - - - - - - - - - - - - - -	
		025 - MEAN LOWER LOW WATER SPRINGS - - -	
		027 - LOWEST NORMAL LOW WATER - - - - -	
		029 - LOWEST LOW WATER - - - - - - - - -	
		031 - NOT APPLICABLE - - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
6C170	SAFETY FAIRWAY		A ROUTE ESTABLISHED FOR THE SAFE PASSAGE OF VESSELS THROUGH OFFSHORE OIL AND GAS FIELDS AND MINEFIELDS.
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
6C177	SWEPT AREA		AN AREA OF WATER CLEARED BY A WIRE DRAG TO ENSURE AN AREA IS FREE OF NAVIGATIONAL DANGERS.
	DAT	DATE CATEGORY	Date (Year) of report or activity.
		000 - ANY YEAR - - - - - - - - - - - - -	
	HDP	HYDROGRAPHIC DEPTH	The depth of the feature below water referenced to a specified vertical datum. Increment: 0.1 Meter Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	
	VDC	VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
		000 - UNKNOWN - - - - - - - - - - - - - - - 004 - INDIAN SPRING LOW WATER - - - - - - 011 - MEAN LOW WATER - - - - - - - - - - - 013 - MEAN LOW WATER SPRINGS - - - - - - - 014 - MEAN LOWER LOW WATER - - - - - - - 015 - MEAN SEA LEVEL - - - - - - - - - - - 023 - OTHER - - - - - - - - - - - - - - - 025 - MEAN LOWER LOW WATER SPRINGS - - - 027 - LOWEST NORMAL LOW WATER - - - - - - 029 - LOWEST LOW WATER - - - - - - - - - -	
	VDR	VERTICAL DATUM RECORD	Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
		000 - ANY DATUM - - - - - - - - - - - - -	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
6C180	TRAFFIC SEPARATION SCHEME		ROUTING MEASURE TO SEPARATE OPPOSING STREAMS OF VESSEL TRAFFIC BY THE ESTABLISHMENT OF TRAFFIC LANES.
	DOF	DIRECTION OF FLOW	Azimuth of movement or direction of the flow. Increment: 1 Degree Limits: N/A Variance: N/A
		Default: 360=Not Applicable Range: 0...359	
	IAS	IMO APPROVAL STATUS	Status of International Maritime Organization approval.

Fcode	Feature	Attributes/Values	Definition
6C180	TRAFFIC SEPARATION SCHEME (Cont.)		
	IAS IMO APPROVAL STATUS (Cont.)		
		001 - APPROVED	
		002 - NOT APPROVED	
	TSP TRAFFIC SCHEME PART		Component of the traffic routing system.
		001 - ARROW	
		002 - OUTER BOUNDARY	
		003 - SEPARATION ZONE AREA	
		004 - SEPARATION ZONE LINE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
		Range: > 0...No Upper Limit	
6C210	WORK IN PROGRESS AREA		AN AREA BEING FILLED OR EXCAVATED TO CHANGE THE COASTLINE, OR WHERE STRUCTURES ARE BEING CONSTRUCTED IN THE WATER.
	ANO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	ATN AIDS TO NAVIGATION		Indication of whether a feature is marked or unmarked by navigation aids.
		001 - MARKED	
		002 - UNMARKED	
	CON CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN	
		002 - LIMITS AND INFO UNKNOWN	
	DAN DESCRIPTION OF AIDS TO NAVIGATION		Textual description of aids to navigation marking a feature, eg. "Marked by buoys".
		000 - ANY DESCRIPTION	
	DAT DATE CATEGORY		Date (Year) of report or activity.
		000 - ANY YEAR	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Pcode	Feature	Attributes/Values	Definition
6C210	WORK IN PROGRESS AREA (Cont.)		
	WPC	WORK IN PROGRESS CATEGORY	Type of work in progress. of work in progress.
		001 - LAND RECLAMATION - - - - - - - - -	
		002 - CONSTRUCTION OF STRUCTURES - - - -	

Fcode	Feature	Attributes/Values	Definition
8A010	AIRPORT ASSOCIATED STRIP		DRAG STRIPS OR ANY OTHER FORM OF A STRIP IN THE PROXIMITY OF THE AIRPORT AND FALLING WITHIN THE COVERAGE OF THE AIRPORT SKETCH.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8A020	APRON		A DEFINED PAVED OR HARD PACKED AREA IN AN AIRCRAFT FACILITY INTENDED TO ACCOMMODATE AIRCRAFT FOR PURPOSES OF LOADING OR UNLOADING PASSENGERS OR CARGO, REFUELING, PARKING, OR MAINTENANCE.
	AFL	APRON FLOOD LIGHTS AVAILABILITY	The availability of Apron Flood lights.
		000 - UNKNOWN - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - -	
		002 - NOT AVAILABLE - - - - - - - - -	
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	ARE	AREA WITH GREATER PRECISION	The absolute area within the delineation of the feature measured with greater precision.
			Increment: 0.1 Square Meter Limits: N/A Variance: N/A
		Range: 0.1...30480000.0	
	ENT	APRON /HARDSTAND ENTRY CLEARANCE	The apron /hardstand access maximum width considering taxiway width plus clearance from such hazards as trees, revetments, buildings, etc.
			Increment: 0.1 Meter Limits: N/A Variance: N/A
		Range: 0...399.9	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN - - - - - - - - - - - -	
		005 - UNDER CONSTRUCTION - - - - - - -	
		006 - ABANDONED - - - - - - - - - - -	
		027 - CLOSED - - - - - - - - - - - - -	
		028 - OPERATIONAL - - - - - - - - - -	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN - - - - - - - - - - - -	
		002 - ASPHALT - - - - - - - - - - - -	
		005 - BEDROCK - - - - - - - - - - - -	
		008 - BRICK - - - - - - - - - - - - -	
		014 - CLAY - - - - - - - - - - - - - -	
		018 - CONCRETE - - - - - - - - - - - -	
		019 - CORAL - - - - - - - - - - - - -	
		023 - EARTHEN - - - - - - - - - - - -	Graded or Rolled Earth
		034 - GRASS - - - - - - - - - - - - -	
		035 - GRAVEL - - - - - - - - - - - - -	
		069 - SAND - - - - - - - - - - - - - -	Graded

Fcode	Feature	Attributes/Values	Definition
8A020	APRON (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		083 - STEEL	
		102 - OTHER	Permanent (Surface Type Unknown)
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	(Part Concrete, Part Asphalt, or Part Macadam)
		112 - LATERITE	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	PAN	PARKING AREA NOTES	Information on this feature not covered by the other attributes.
		000 - CHAR: 1080 A/N	
	PKU	PARKING AREA USE	Feature usage.
		000 - UNKNOWN	
		001 - ALERT APRON /HARDSTAND	An apron /hardstand usually collocated with a taxiway accessing the runway ends. Used for aircraft marshalling and pre-takeoff operations. Sometimes called a holding bay or holding apron / hardstand.
		002 - OPERATIONAL APRON /HARDSTAND	An apron /hardstand used for the parking, marshalling, temporary storage, loading, or unloading of aircraft.
		003 - HANGAR APRON	An apron immediately accessible to a ramp used as a ramp into the hangar.
		004 - BASE FLIGHT APRON	An apron on a military airport usually used for non-tactical, strategic or mission aircraft which are used in support of base functions in support of the mission aircraft.
		005 - ENGINE TEST PAD /APRON	An apron designated for aircraft engine run-up, tabbing, or power checks situated away from habitated and regularly used aircraft movement areas.
		006 - TRANSIENT APRON	Space set aside on an apron to be used by visiting aircraft.
		007 - DEPOT APRON	An apron usually situated in an area convenient to a supply/ parts or aircraft maintenance depot maintenance area.
		008 - STUB APRON	Short end of abandoned taxiway, runway or ramp. Used for short term parking, maintenance, etc.
		017 - OTHER	
	SCA	SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes; for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	

8A050	ARRESTING GEAR		A SAFETY DEVICE CONSISTING OF TWO MAJOR COMPONENTS, NAMELY, ENGAGING OR CATCHING DEVICES AND ENERGY ABSORPTION DEVICES FOR THE PURPOSE OF ARRESTING BOTH TAIL HOOK AND /OR NON-TAIL HOOK EQUIPPED AIRCRAFT.
	AED	ARRESTING GEAR ENGAGEMENT DIRECTION	The direction the aircraft must be moving in order to utilize this feature.
		000 - UNKNOWN	
		001 - LOW IDENTIFIER	From the low to the high identifier end of the runway.

Fcode	Feature	Attributes/Values	Definition
8A050	ARRESTING GEAR (Cont.)		
	AED ARRESTING GEAR ENGAGEMENT DIRECTION (Cont.)		
		002 - HIGH IDENTIFIER - - - - - - - - - -	From the high to the low identifier end of the runway.
		003 - BI-DIRECTIONAL - - - - - - - - - -	Engageable from either direction.
	AGL ARRESTING GEAR LOCATION		The distance of the arresting system from the closest threshold of the runway /landing area referenced by Runway Cross Reference Code (RWC).
			Increment: 0.1 Meter Limits: Positive value indicates position toward high end of runway. Zero value indicates position at low end coordinate of runway. Negative value indicates position prior to low end coordinate of runway. Variance: N/A
		Default: 1646.0=Unknown Range: -609.5...1645.5	
	AGT ARRESTING GEAR TYPE		The type of arresting system being used. The type of arresting system being used.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - UNKNOWN TYPE CABLE - - - - - - - - -	
		002 - UNKNOWN TYPE NET - - - - - - - - - -	
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	RMK CATEGORY REMARKS		Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8A070	DISPLACED THRESHOLD		A THRESHOLD THAT IS LOCATED AT A POINT ON THE RUNWAY OTHER THAN THE DESIGNATED BEGINNING OF THE RUNWAY.
	LGP LENGTH WITH GREATER PRECISION		The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	RMK CATEGORY REMARKS		Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	RTH RUNWAY TRUE HEADING		True heading of the runway which uses this feature.
			Increment: 0.1 Degree Limits: N/A Variance: N/A
		Range: 0.1...360.0	
8A080	HARDSTAND		AN AREA ADJACENT TO APRONS, TAXIWAYS, AND RUNWAYS PREPARED FOR AIRCRAFT PARKING, REFUELING, OR OTHER SPECIALIZED ACTIONS.
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	ARE AREA WITH GREATER PRECISION		The absolute area within the delineation of the feature measured with greater precision.

Fcode	Feature	Attributes/Values	Definition
8A080	HARDSTAND (Cont.)		
	ARE	AREA WITH GREATER PRECISION (Cont.)	
			Increment: 0.1 Square Meter Limits: N/A Variance: N/A
		Range: 0.1...30480000.0	
	ENT	APRON /HARDSTAND ENTRY CLEARANCE	The apron /hardstand access maximum width considering taxiway width plus clearance from such hazards as trees, revetments, buildings, etc.
			Increment: 0.1 Meter Limits: N/A Variance: N/A
		Range: 0...399.9	
	EXS	EXISTENCE CATEGORY	The state or condition of the feature.
		000 - UNKNOWN	
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	
		027 - CLOSED	
		028 - OPERATIONAL	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
		000 - UNKNOWN	
		002 - ASPHALT	
		005 - BEDROCK	
		008 - BRICK	
		014 - CLAY	
		018 - CONCRETE	
		019 - CORAL	
		023 - EARTHEN	Graded or Rolled Earth
		034 - GRASS	
		035 - GRAVEL	
		069 - SAND	Graded
		083 - STEEL	
		102 - OTHER	Permanent (Surface Type Unknown)
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	(Part Concrete, Part Asphalt, or Part Macadam)
		112 - LATERITE	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	PAN	PARKING AREA NOTES	Information on this feature not covered by the other attributes.
		000 - CHAR: 1080 A/N	
	PKU	PARKING AREA USE	Feature usage.
		000 - UNKNOWN	
		001 - ALERT APRON /HARDSTAND	An apron /hardstand usually collocated with a taxiway accessing the runway ends. Used for aircraft marshalling and pre-takeoff operations. Sometimes called a holding bay or holding apron / hardstand.
		002 - OPERATIONAL APRON /HARDSTAND	An apron /hardstand used for the parking, marshalling, temporary storage, loading, or unloading of aircraft.
		009 - DISPERSAL HARDSTAND	
		010 - PAD HARDSTAND	
		011 - REFUELING HARDSTAND	
		012 - PARKING HARDSTAND	
		013 - ENGINE RUN-UP HARDSTAND	
		014 - FIRING-IN HARDSTAND	

Fcode	Feature	Attributes/Values	Definition
8A080	HARDSTAND (Cont.)		
	PKU PARKING AREA USE (Cont.)		
		015 - COMPASS ROSE HARDSTAND	
		016 - MAINTENANCE HARDSTAND	
		017 - OTHER	
	SCA SURFACE CONDITION ATTRIBUTE		Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	
8A110	HELIPAD		A HELICOPTER ALIGHTING AREA.
8A120	OVERRUN /BLAST PAD		OVERRUN: AREA (200 FEET OR LONGER) BEYOND THE RUNWAY DESIGNED TO SUPPORT ANAIRCRAFT DURING AN ABORTED TAKE-OFF. BLAST PAD: AREA (LESS THAN 200 FEET LONG) PRIOR TO THE RUNWAY DESIGNED TO LIMIT EROSION DAMAGE FROM JET EXHAUST.
	EXS EXISTENCE CATEGORY		The state or condition of the feature.
		000 - UNKNOWN	
		005 - UNDER CONSTRUCTION	
		006 - ABANDONED	
		027 - CLOSED	
		028 - OPERATIONAL	
	LGP LENGTH WITH GREATER PRECISION		The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	MCP MATERIAL COMPOSITION PRIMARY		Primary material composition of feature.
		000 - UNKNOWN	
		002 - ASPHALT	
		005 - BEDROCK	
		008 - BRICK	
		014 - CLAY	
		018 - CONCRETE	
		019 - CORAL	
		023 - EARTHEN	Graded or Rolled Earth
		034 - GRASS	
		035 - GRAVEL	
		069 - SAND	Graded
		083 - STEEL	
		102 - OTHER	Permanent (Surface Type Unknown)
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	

Fcode	Feature	Attributes/Values	Definition
8A120	OVERRUN /BLAST PAD (Cont.)		
	MCP MATERIAL COMPOSITION PRIMARY (Cont.)		
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	(Part Concrete, Part Asphalt, or Part Macadam)
		112 - LATERITE	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	MSW MOVEMENT SURFACE WIDTH		The measurement of the feature's axis perpendicular to normal aircraft movement.
			Increment: 0.1 Meter Limits: Excluding any shoulders. Variance: N/A
		Range: 0.1...7000.0	
	RIR RUNWAY IDENTIFIER REFERENCE		Runway Ident for the runway for which this is an overrun.
		000 - CHAR: 3 A/N	
	RMK CATEGORY REMARKS		Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N	
	RTH RUNWAY TRUE HEADING		True heading of the runway which uses this feature.
			Increment: 0.1 Degree Limits: N/A Variance: N/A
		Range: 0.1...360.0	
	SCA SURFACE CONDITION ATTRIBUTE		Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	

8A150	RUNWAY /AGEAR		THE RUNWAY AND ITS ASSOCIATED ARRESTING GEAR, OVERRUN /BLAST PADS, AND DISPLACED THRESHOLDS.
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N	

8B020	AIRPORT NAVAID		INFORMATION CONCERNING NAVIGATIONAL AIDS AT THE AIR FACILITY INCLUDING TOWER, APPROACH CONTROL, AIR TO GROUND, AND LANGUAGES SPOKEN.
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.

Fcode	Feature	Attributes/Values	Definition
8B020	AIRPORT NAVAID (Cont.)		
	AKY	AIRPORT KEY (Cont.)	
		000 - CHAR: 12 A/N	
	NVT	NAVAID TYPE	Type of NAVAID for which information can be reported.
		000 - UNKNOWN	
		001 - CONTROL TOWER	
		002 - VOR	Very High Frequency Omni Range
		003 - TACAN	Tactical Air Navigations
		004 - VORTAC	
		005 - NDB	Non-directional Radio Beacon
		006 - PAR	Precision Approach Radar
		007 - ILS /MLS	Instrument or Microwave Landing System
		008 - ASR	Airport Surveillance Radar
		009 - FM	Fan Marker
		010 - OM	Outer Marker
		011 - MM	Middle Marker
		012 - LOM	Locator Outer Marker
		013 - LMM	Locator Middle Marker
		014 - ROTATING BEACON LIGHT	
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N	

8B050	POINT TO POINT COMMUNICATIONS		INFORMATION CONCERNING POINT TO POINT COMMUNICATIONS AT THE AIR FACILITY INCLUDING TYPE, FREQUENCY, MAINTENANCE, CAPACITY, OPERATORS, AND HOURS OF OPERATION.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N	
	PCT	POINT-TO-POINT COMMUNICATIONS TEXT	List point-to-point communications on or directly related to the airport.
		000 - CHAR: 1080 A/N	

8C020	SPECIAL PURPOSE VEHICLES		INFORMATION CONCERNING THE AVAILABILITY OF SPECIAL EQUIPMENT AT THE AIR FACILITY SUCH AS CRASH, WRECK AND SNOW REMOVAL EQUIPMENT.
	SPV	SPECIAL PURPOSE VEHICLE TYPE	Description of equipment specialty.
		001 - WRECK REMOVAL ASSOCIATED	
		002 - CRASH REMOVAL ASSOCIATED	
		003 - SNOW REMOVAL ASSOCIATED	
		004 - WRECK REMOVAL MAIN STORAGE SITE	
		005 - CRASH REMOVAL MAIN STORAGE SITE	
		006 - SNOW REMOVAL MAIN STORAGE SITE	
	SVR	SPECIAL PURPOSE VEHICLE REMARKS	Remarks on the quantities and types of special purpose vehicles, including: 1) snow removers; 2) wreck removers, quantities and types of wreckers, cranes, hoists, crash dollies, etc.; or 3) crash removers, quantities and types of crash equipment and rescue vehicles.
		000 - CHAR: 1080 A/N	

8D020	AIRCRAFT STARTING UNITS		INFORMATION CONCERNING AIRCRAFT STARTING UNITS AT THE AIR FACILITY INCLUDING THE TYPE AND POWER OUTPUT.

Fcode	Feature	Attributes/Values	Definition
8D020	AIRCRAFT STARTING UNITS (Cont.)		
	SUR	AIRCRAFT STARTING UNITS REMARKS	The type and quantity of aircraft starting units available at this aircraft facility.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8D060	GARBAGE DISPOSAL		INFORMATION CONCERNING GARBAGE DISPOSAL AT THE AIR FACILITY INCLUDING THE CAPACITY PER DAY, METHOD OF DISPOSAL, AND WHETHER TREATED OR UNTREATED.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - -	
	GDR	GARBAGE DISPOSAL REMARKS	Remarks on garbage disposal, to include: capacity, treated /untreated, and method of disposal.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8D080	NON- SITE 30 DATA ELEMENT		INFORMATION CONCERNING NON- SITE 30 DATA INCLUDING MILITARY ACTIVITIES, DEFENSES, AND SUPPORT FACILITIES.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - -	
	GD4	DEFENSE SAM SITE	Classified.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - SAM - - - - - - - - - - - - - - -	
		002 - AAA - - - - - - - - - - - - - - -	
	RMK	CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8D130	SEWAGE DISPOSAL		INFORMATION CONCERNING SEWAGE DISPOSAL AT THE AIR FACILITY.
	SDR	SEWAGE DISPOSAL REMARKS	Remarks on sewage disposal capabilities at the aircraft facility, to include: capacity per day in gallons, method of disposal (cesspool, chemical processing, direct drainage into a river, on land, or into the sea), outhouses, flush toilets, or slit trenches.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8D150	WATER SUPPLY		INFORMATION ON WATER SUPPLIES AT THE AIR FACILITY, INCLUDING SOURCE, QUANTITY, STORAGE CAPACITY AND METHODS, POTABILITY, AND METHOD OF RECEIPT.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.

Fcode	Feature	Attributes/Values	Definition
8D150	WATER SUPPLY (Cont.)		
	AKY	AIRPORT KEY (Cont.)	
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	WSR	WATER SUPPLY REMARKS	Remarks on the water supplies available, to include: source, quantity, storage capacity and methods, potability, and method of receipt.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8ED20	LOCATION AND LANDMARKS		INFORMATION CONCERNING LOCATION AND LANDMARKS AT THE AIR FACILITY INCLUDINGTHE CITY OR TOWN REFLECTED IN THE AIRPORT NAME AND THE DISTANCE OF THE CITY OR TOWN FROM THE AIR FACILITY REFERENCE POINT, MEASURED IN NAUTICAL MILES.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	LMK	LOCATION AND LANDMARKS REMARKS	Descriptive location and landmarks in relation to the installation reference point.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
8ED40	TERRAIN AND DRAINAGE		INFORMATION CONCERNING THE TERRAIN AND DRAINAGE AT THE AIR FACILITY INCLUDING SOIL CHARACTERISTICS, ACREAGE, GRADING, DRAINAGE, AND MAINTENANCE.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	GTI	TERRAIN AND DRAINAGE REMARKS	Installation details on dimensions, acreage, soil characteristics, grading, drainage (overall, runway, taxiway, and parking areas), maintenance, overall expansion possibilities, and approach terrain characteristics.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	TDT	TERRAIN OR DRAINAGE TYPE	Brief description of the terrain and drainage feature.
		001 - RIVER /LAKE - - - - - - - - - - -	
		002 - TERRAIN - - - - - - - - - - - - -	
		003 - OTHER - - - - - - - - - - - - - -	
8FO70	FUEL REFUELING /DISPENSING UNIT		INFORMATION CONCERNING REFUELING UNITS AT THE AIR FACILITY INCLUDING TYPE, CAPACITY, AND TANK SIZE, OR DISPENSING UNITS AT THE AIR FACILITY INCLUDING TYPES OF HYDRANTS AND NOZZLES.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	FDR	FUEL DISPENSING REMARKS	Remarks on fuel dispensing, to include: number of laterals, number of pits per lateral, number and capacity of pumps per lateral.

Pcode	Feature	Attributes/Values	Definition
8F070	FUEL REFUELING /DISPENSING UNIT (Cont.)		
	FDR FUEL DISPENSING REMARKS (Cont.)		
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	C01 NUMBER OF SINGLE POINT REFUELING UNITS		The number of hose /filter-water separator carts /trucks for single point refueling for the designated fuel.
			Increment: 1 Cart /Truck Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 1...999	
	T01 REFUELING UNITS TYPE		The methods /units available for dispensing the designated fuel.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - C - - - - - - - - - - - - - - - -	Truck
		002 - M - - - - - - - - - - - - - - - -	Manual
		003 - H - - - - - - - - - - - - - - - -	Hydrant
		004 - NOT APPLICABLE - - - - - - - - - -	
8F130	OFFBASE FUEL STORAGE		INFORMATION CONCERNING OFFBASE FUEL STORAGE AT THE AIR FACILITY INCLUDING NUMBERS, OWNERS, TYPES, AND CAPACITIES.
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	E01 FUEL STORAGE METHOD		The indication of the relative density of the Built-Up Area. Method of aircraft fuel storage for like fuel storage containers.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - K - - - - - - - - - - - - - - - -	Buried Tank.
		002 - C - - - - - - - - - - - - - - - -	Aboveground Tank.
		003 - H - - - - - - - - - - - - - - - -	Aboveground and Buried Tanks.
		004 - B - - - - - - - - - - - - - - - -	Semi-buried Tank.
		005 - G - - - - - - - - - - - - - - - -	Aboveground and Semi-buried Tanks.
		006 - F - - - - - - - - - - - - - - - -	Buried and Semi-buried Tanks.
		007 - D - - - - - - - - - - - - - - - -	Railroad Tank Car.
		008 - P - - - - - - - - - - - - - - - -	Truck.
		009 - N - - - - - - - - - - - - - - - -	Barrels, Drums, or Cans.
		010 - J - - - - - - - - - - - - - - - -	Buried, Semi-buried, and Aboveground Tanks.
	C01 FUEL CONTAINERS CAPACITY EACH		The capacity of each fuel tank containing the designated fuel.
			Increment: 1 U.S. Gallon Limits: N/A Variance: N/A
		Default: 0=Unknown 1=Various Range: 2...9999998	
	E01 NUMBER OF FUEL FILL STANDS		The number of fill stands used for the fuel to transfer fuel from storage tanks into trucks.
			Increment: 1 Fill Stand Limits: N/A Variance: N/A
		Range: 0...998	
	FDM FUEL DISPENSING METHOD		The primary method of dispensing fuel at the air facility.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - - -	
		003 - TANK TRUCKS - - - - - - - - - - - -	
		004 - HYDRANTS - - - - - - - - - - - - - -	
		005 - MANUAL - - - - - - - - - - - - - - -	
	FSR FUEL STORAGE REMARKS		Pertinent remarks pertaining to fuel storage, to include the basis for estimating a change in the types or quantities of fuel storage.
		000 - CHAR: 1080 A/N - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
8F150	ONBASE FUEL STORAGE		INFORMATION CONCERNING FUEL STORAGE AT THE AIR FACILITY INCLUDING NUMBERS AND TYPES OF CONTAINERS, STORAGE CAPACITY, AND DISPENSING RATE.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - - -	
	B01	FUEL STORAGE METHOD	The indication of the relative density of the Built-Up Area. Method of aircraft fuel storage for like fuel storage containers.
		000 - UNKNOWN - - - - - - - - - - - - - -	
		001 - K - - - - - - - - - - - - - - - - -	Buried Tank.
		002 - C - - - - - - - - - - - - - - - - -	Aboveground Tank.
		003 - H - - - - - - - - - - - - - - - - -	Aboveground and Buried Tanks.
		004 - B - - - - - - - - - - - - - - - - -	Semi-buried Tank.
		005 - G - - - - - - - - - - - - - - - - -	Aboveground and Semi-buried Tanks.
		006 - F - - - - - - - - - - - - - - - - -	Buried and Semi-buried Tanks.
		007 - D - - - - - - - - - - - - - - - - -	Railroad Tank Car.
		008 - P - - - - - - - - - - - - - - - - -	Truck.
		009 - M - - - - - - - - - - - - - - - - -	Barrels, Drums, or Cans.
		010 - J - - - - - - - - - - - - - - - - -	Buried, Semi-buried, and Aboveground Tanks.
	C01	FUEL CONTAINERS CAPACITY EACH	The capacity of each fuel tank containing the designated fuel. Increment: 1 U.S. Gallon Limits: N/A Variance: N/A
		Default: 0=Unknown 1=Various Range: 2...9999998	
	E01	NUMBER OF FUEL FILL STANDS	The number of fill stands used for the fuel to transfer fuel from storage tanks into trucks. Increment: 1 Fill Stand Limits: N/A Variance: N/A
		Range: 0...998	
	FDM	FUEL DISPENSING METHOD	The primary method of dispensing fuel at the air facility.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - AVAILABLE - - - - - - - - - - - -	
		003 - TANK TRUCKS - - - - - - - - - - -	
		004 - HYDRANTS - - - - - - - - - - - - -	
		005 - MANUAL - - - - - - - - - - - - - -	
	FSR	FUEL STORAGE REMARKS	Pertinent remarks pertaining to fuel storage, to include the basis for estimating a change in the types or quantities of fuel storage.
		000 - CHAR: 1080 A/N - - - - - - - - - -	

8G020	ORDNANCE STORAGE		INFORMATION CONCERNING ORDNANCE STORAGE AT THE AIR FACILITY INCLUDING TYPE,NUMBER, AND CAPACITY OF MUNITIONS STORAGE.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - - -	
	LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	OAC	ORDNANCE AREA CONSTRUCTION ACTIVITY	Construction activity in the ordnance storage area.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - 1 - - - - - - - - - - - - - - - - -	Area is under construction.

Fcode	Feature	Attributes/Values	Definition
8G020	ORDNANCE STORAGE (Cont.)		
	OAC	ORDNANCE AREA CONSTRUCTION ACTIVITY (Cont.)	
		002 - 2 - - - - - - - - - - - - - - - -	Area is not under construction.
	OBS	ORDNANCE BUNKER STORAGE	Indicates whether or not ordnance is stored in a bunker.
		000 - UNKNOWN - - - - - - - - - - - - -	
		001 - 1 - - - - - - - - - - - - - - - -	Ordnance is stored in a bunker.
		002 - 2 - - - - - - - - - - - - - - - -	Ordnance is not bunker stored.
	OFT	ORDNANCE FACILITY TYPE	Ordnance facility brief description.
		001 - MAIN FACILITY - - - - - - - - - -	
		002 - OTHER - - - - - - - - - - - - - -	
	OSR	ORDNANCE STORAGE REMARKS	Remarks on ordnance storage.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	

8G070 REVETTED HARDSTAND

AN AREA ADJACENT TO APRONS, TAXIWAYS, AND RUNWAYS PREPARED FOR AIRCRAFT PARKING, REFUELING, OR OTHER ACTIONS WITH A BARRICADE CONSTRUCTED TO PROTECT SOMETHING FROM DAMAGE DUE TO WIND, EXPLOSION, AND FLYING OBJECTS.

AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
	000 - CHAR: 12 A/N - - - - - - - - - - -	
ARE	AREA WITH GREATER PRECISION	The absolute area within the delineation of the feature measured with greater precision. Increment: 0.1 Square Meter Limits: N/A Variance: N/A
	Range: 0.1...30480000.0	
ENT	APRON /HARDSTAND ENTRY CLEARANCE	The apron /hardstand access maximm width considering taxiway width plus clearance from such hazards as trees, revetments, buildings, etc. Increment: 0.1 Meter Limits: N/A Variance: N/A
	Range: 0...399.9	
LGP	LENGTH WITH GREATER PRECISION	The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter. Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
	Range: 0.1...30478.2	
MCP	MATERIAL COMPOSITION PRIMARY	Primary material composition of feature.
	000 - UNKNOWN - - - - - - - - - - - - -	
	002 - ASPHALT - - - - - - - - - - - - -	
	005 - BEDROCK - - - - - - - - - - - - -	
	008 - BRICK - - - - - - - - - - - - - -	
	014 - CLAY - - - - - - - - - - - - - - -	
	018 - CONCRETE - - - - - - - - - - - - -	
	019 - CORAL - - - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
8G070	REVETTED HARDSTAND (Cont.)		
	MCP	MATERIAL COMPOSITION PRIMARY (Cont.)	
		023 - EARTHEN	Graded or Rolled Earth
		034 - GRASS	
		035 - GRAVEL	
		069 - SAND	Graded
		083 - STEEL	
		102 - OTHER	Permanent (Surface Type Unknown)
		103 - BITUMINOUS	
		104 - COMPOSITE WITH < 50% PERMANENT MATERIAL	
		105 - COMPOSITE WITH >= 50% PERMANENT MATERIAL	
		106 - SNOW	
		107 - ICE	
		108 - MACADAM	
		109 - MEMBRANE	
		110 - NON-BITUMINOUS BINDING MIX-IN-PLACE	
		111 - COMBINATION	(Part Concrete, Part Asphalt, or Part Macadam)
		112 - LATERITE	
		114 - ALUMINUM	Pierced aluminum plank.
		115 - ASPHALT OVER CONCRETE	
	PAN	PARKING AREA NOTES	Information on this feature not covered by the other attributes.
		000 - CHAR: 1080 A/N	
	RVT	REVETMENT TYPE	Type of revetment at the air facility.
		001 - C	Covered
		002 - O	Open
	SCA	SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
		000 - UNKNOWN	
		001 - GOOD	No cracks or potholes.
		002 - FAIR	Some cracks or potholes.
		003 - POOR	Extensive cracks or potholes.
	WGP	WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes; for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	

8G080	SECURITY		INFORMATION CONCERNING SECURITY AT THE AIR FACILITY INCLUDING TYPE, HEIGHT, AND LOCATION OF SECURITY WALLS AND FENCES.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N	
	PSR	FEATURE PHYSICAL SECURITY REMARKS	Remarks to indicate the threat/security evaluation: list security provisions, and other significant remarks.
		000 - CHAR: 1080 A/N	

8H020	AIRCRAFT BUNKER		HARDENED STRUCTURE BUILT ABOVE OR PARTIALLY ABOVE GROUND WHICH ENCLOSES AIRCRAFT TO PROVIDE PROTECTION FROM OFFENSIVE MUNITIONS.
	ABM	AIRCRAFT BUNKER REMARKS	Pertinent remarks about the feature.

Fcode	Feature	Attributes/Values	Definition
8H020	AIRCRAFT BUNKER (Cont.)		
	ABM AIRCRAFT BUNKER REMARKS (Cont.)		
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	AKY AIRPORT KEY		Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - -	
	CLB CLOSURE TYPE		Classified (CLB).
		000 - CLASSIFIED (1) - - - - - - - - - -	
		001 - CLASSIFIED (2) - - - - - - - - - -	
	CLF CAMOUFLAGE		Classified (CLF).
		000 - CLASSIFIED (1) - - - - - - - - - -	
		001 - CLASSIFIED (2) - - - - - - - - - -	
	CTB CONSTRUCTION TYPE		Classified (CTB).
		000 - CLASSIFIED (1) - - - - - - - - - -	
		001 - CLASSIFIED (2) - - - - - - - - - -	
	DCT DOOR CONSTRUCTION TYPE		Classified (DCT).
		000 - CLASSIFIED (1) - - - - - - - - - -	
		001 - CLASSIFIED (2) - - - - - - - - - -	
	LGP LENGTH WITH GREATER PRECISION		The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: 0.1...30478.2	
	NOB NUMBER OF BAYS		The number of bays available at the bunker.
			Increment: 1 Bay Limits: N/A Variance: N/A
		Default: 0=Unknown Range: 1...999	
	PLB PLACEMENT		Classified (PLB).
		000 - CLASSIFIED (1) - - - - - - - - - -	
		001 - CLASSIFIED (2) - - - - - - - - - -	
	WGP WIDTH WITH GREATER PRECISION		A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present).
			Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
		Default: 0=Unknown Range: 0.1...12000.0	

8I100	VEHICLES		INFORMATION CONCERNING MILITARY OR COMMERCIAL VEHICLES AT THE AIR FACILITY.
	VRM VEHICLE REMARKS		Remarks on the available commercial or military vehicles, to include: numbers, sizes, use and ownership of jeeps, trucks, trailers, buses, etc.
		000 - CHAR: 1080 A/N - - - - - - - - - -	
	VTP VEHICLE TYPE		Vehicle type brief description.
		001 - MILITARY - - - - - - - - - - - -	
		002 - COMMERCIAL - - - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
8I120	WATER TRANSPORTATION		INFORMATION CONCERNING THE AVAILABILITY OF NAVIGABLE WATERWAYS AT THE AIR FACILITY USUALLY ACCESSIBLE VIA ROAD OR RAILROAD.
	AKY	AIRPORT KEY	Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.
		000 - CHAR: 12 A/N - - - - - - - - - - - -	
	WWR	WATERWAYS REMARKS	Remarks on navigable waterways and ports, to include: classification; navigability; size /number /availability of quays and controlling depths /docks / wharves; warehouses and storage areas; land transportation available; equipment; max and normal handling capacities.
		000 - CHAR: 1080 A/N - - - - - - - - - -	

Fcode	Feature	Attributes/Values	Definition
9B030	BOUNDARY MARKER		A MARKER IDENTIFYING THE LOCATION OF A SURVEYED BOUNDARY LINE.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
9B035	CONTROL POINT		AN OBJECT OR MARK ON THE GROUND OF KNOWN POSITION, OR BOTH POSITION AND ELEVATION, IN A NETWORK OF GROUND CONTROL.
	CPA	CONTROL POINT ATTRIBUTE	Type of control point.
		001 - BENCH MARK - - - - - - - - - - - -	
		002 - HORIZONTAL - - - - - - - - - - - -	
		003 - HORIZONTAL WITH BENCH MARK - - - -	
		004 - ASTRONOMIC POSITION - - - - - - - -	
		005 - VERTICAL - - - - - - - - - - - - -	Bench mark with elevation established by vertical angle methods.
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER - - - - - - - - - -	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
9B040	DIAGNOSTIC POINT		A POINT USED TO CHECK SYSTEM ACCURACY.
	1HT	DERIVED HEIGHT	For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1LN	DERIVED LENGTH	For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	1WD	DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
		000 - 0 - - - - - - - - - - - - - - - -	
	ADO	ANGLE OF ORIENTATION	The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Fcode	Feature	Attributes/Values	Definition
9B040	DIAGNOSTIC POINT (Cont.)		
	LEN LENGTH /DIAMETER (Cont.)		Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	RSF RADAR SIGNIFICANCE FACTOR		A value based upon the anticipated radar return of various surface materials .
		010 - SOIL - - - - - - - - - - - - - - -	>= 51% of soil surface characteristics: includes bare earth, cultivated ground, croplands, grass, etc.)
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
9B045	ELEVATION POINT		A POINT WITHIN A MATRIX OF POINTS HAVING A PRECISE POSITION ON THE EARTH'S SURFACE WITH THE ELEVATION RELATIVE TO MEAN SEA LEVEL.
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
9B070	PRECISE RADAR SIGNIFICANT LOCATION		A LOCATION SELECTED FOR HIGH RADAR REFLECTIVE POTENTIAL.
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
9C040	MAGNETIC DISTURBANCE AREA		A LOCALIZED ANOMALY IN THE EARTH'S MAGNETIC FIELD.
	COD CERTAINTY OF DELINEATION		Indicates knowledge of the feature's limits or information.
		001 - LIMITS AND INFO KNOWN - - - - - - 002 - LIMITS AND INFO UNKNOWN - - - - - -	
	VA1 FIRST MAGNETIC VARIATION VALUE		First magnetic variation value of the disturbance area.
			Increment: Degrees and Minutes Limits: N/A Variance: N/A
		Range: -89 DEG 59 MIN WEST...89 DEG 59 MIN EAST	
	VA2 SECOND MAGNETIC VARIATION		Second magnetic variation value of the disturbance area.

Fcode	Feature	Attributes/Values	Definition
9C040	MAGNETIC DISTURBANCE AREA (Cont.)		
	VA2 SECOND MAGNETIC VARIATION (Cont.)		
			Increment: Degrees and Minutes Limits: N/A Variance: N/A
		Range: -89 DEG 59 MIN WEST...89 DEG 59 MIN EAST	
	VAV VARIATION ANOMALY VALUE		The difference between the magnetic variation (MVC) of the disturbance area and the magnetic variation of the surrounding area.
		000 - ANY VALUE OR VALUES - - - - - - -	
9D005	AREA OF RSPS ACCURACY LIMITATIONS		AN AREA INVOLVING PHOTOGRAPHIC SOURCE WHICH SATISFIES RAPID STRIKE PLANNING SYSTEM (RSPS) ACCURACY REQUIREMENTS ONLY IF CERTAIN RESTRICTIONS ON ITS USE ARE OBSERVED.
9D010	MEASURED GEOGRAPHIC LOCATION		AN AREA OR POINT WHERE AN ACTUAL MEASUREMENT IS DETERMINED TO BE PRESERVED FOR FUTURE QUALITY CONTROL PROCESSING.
	DBR DEPTH TO BEDROCK		Depth of bedrock below ground surface.
			Increment: 0.1 Meter Limits: Measured from ground surface to top of bedrock. Variance: N/A
		Range: 0...No Upper Limit	
	DBU DENSITY MEASURE OF BRUSH /UNDERGROWTH		Ground coverage of brush and/or undergrowth within area of feature.
			Increment: 1 Percent Limits: N/A Variance: N/A
		Range: 0...100	
	GLM BANK GRADIENT LEFT (MEASURED)		Slope of the left bank (facing downstream).
			Increment: 1 Percent Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
		Range: > 0...No Upper Limit	
	GRM BANK GRADIENT RIGHT (MEASURED)		Slope of the right bank (facing downstream).
			Increment: 1 Percent Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
		Range: > 0...No Upper Limit	
	GWM GAP WIDTH (MEASURED)		Horizontal gap width at a specific site.
			Increment: 1 Meter Limits: Measured between the top of the first accessible break in slope above mean water level on each bank. Variance: N/A
		Range: > 0...No Upper Limit	
	HLM BANK HEIGHT LEFT (MEASURED)		Height of the left bank (facing downstream).
			Increment: 0.5 Meter Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
		Range: > 0...No Upper Limit	
	HRM BANK HEIGHT RIGHT (MEASURED)		Height of the right bank (facing downstream).

Fcode	Feature	Attributes/Values	Definition
9D010	MEASURED GEOGRAPHIC LOCATION (Cont.)		
	HRM BANK HEIGHT RIGHT (MEASURED) (Cont.)		
			Increment: 0.5 Meter Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
		Range: > 0...No Upper Limit	
9D012	MISCELLANEOUS CULTURAL FEATURE		ANY FEATURE NOT INCLUDED WITHIN THIS GLOSSARY AS A FEATURE OR ATTRIBUTE, AND THE FEATURE IS UNIQUE ONLY TO CERTAIN AREAS OR REGIONS OF THE WORLD, AND IS DETERMINED TO BE A LANDMARK AND/OR VERTICAL OBSTRUCTION.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature.
			Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	COC CONSPICUOUS OBJECT CATEGORY		A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
		001 - CONSPICUOUS 002 - NOT CONSPICUOUS	
	COE CERTAINTY OF EXISTENCE		Indicates knowledge of the feature's existence.
		001 - DEFINITE 002 - DOUBTFUL 003 - REPORTED	
	HGT HEIGHT ABOVE SURFACE LEVEL		The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level,to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN LENGTH /DIAMETER		A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LMC LANDMARK CATEGORY		A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.
		001 - LANDMARK 002 - NOT LANDMARK	
	NAM NAME CATEGORY		The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	TXT TEXT ATTRIBUTE		Narrative descriptions and /or information concerning this feature.
		000 - ANY DESCRIPTION	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.

Fcode	Feature	Attributes/Values	Definition
9D012	MISCELLANEOUS CULTURAL FEATURE (Cont.)		
	WID WIDTH (Cont.)		Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	ZVL Z VALUE		The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	
9D015	POINT OF CHANGE		POSITION WHERE THE CLASSIFICATION CHANGES FROM ONE CATEGORY TO ANOTHER WITHIN A FEATURE.
	PCI POINT OF CHANGE IDENTIFIER		Identifies category of feature associated with a point of change.
		001 - TRANSPORTATION/ROAD OR RAILROAD - 002 - HYDROGRAPHY/DRAINAGE - - - - - - - 003 - BOUNDARIES - - - - - - - - - - - - 004 - ROAD WIDTH CHANGE - - - - - - - - 005 - OBSTACLES - - - - - - - - - - - - 007 - DREDGED CHANNEL - - - - - - - - - 008 - RECOMMENDED TRACK FOR OTHER THAN DEEP WATER VESSELS - - - - - - - 009 - RECOMMENDED TRACK FOR DEEP WATER VESSELS - - - - - - - - - - - -	
9D020	VOID COLLECTION AREA		AN AREA LACKING SUITABLE SOURCE COVERAGE, OR WHERE DATA IS NOT REQUIRED.
	ARA AREA COVERAGE ATTRIBUTE		The absolute area within the delineation of the feature. Increment: 1 Square Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EOC EMBEDDED OBSTRUCTION CODE		Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open - Largest percentage of area is not covered by trees or man-made structures.
	HAC HEIGHTING ACCURACY		The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present). Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	VCA VOID COLLECTION ATTRIBUTE		Reason data is not collected.
		000 - UNKNOWN - - - - - - - - - - - - - - 001 - DATA NOT REQUESTED BY USER - - - - 002 - AREA TOO ROUGH TO COLLECT - - - - 003 - NO AVAILABLE IMAGERY - - - - - - - 004 - DIFFERENT HEIGHT THRESHOLD WITHIN DATA BLOCK - - - - - - - - - - - 005 - LOW DATA COLLECTION CRITERIA - - -	

Fcode	Feature	Attributes/Values	Definition

9D020 VOID COLLECTION AREA (Cont.)

VCA VOID COLLECTION ATTRIBUTE (Cont.)

- 006 - NO AVAILABLE MAP SOURCE
- 007 - NO SUITABLE IMAGERY
- 008 - DATA NOT REQUIRED

VCT VOID COLLECTION TYPE .... Identifies type of missing information.

- 001 - RELIEF
- 002 - OTHER

9D022 HOMOGENEOUS AGGREGATE FEATURE — TWO OR MORE LIKE FEATURES WHICH ARE REPRESENTED AS ONE CONTIGUOUS AGGREGATEFEATURE; WHERE INDIVIDUAL FEATURES INCLUDED WITHIN THE AGGREGATE MAY OR MAY NOT MEET INCLUSION CONDITIONS TO BE DELINEATED INDIVIDUALLY.

1AO DERIVED ANGLE OF ORIENTATION CODE .... For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Increment:
Limits: N/A
Variance: N/A

Default: 63
Range: 0...31

1DR DERIVED DENSITY OF ROOF COVER CODE .... (DA) Coded value indicating percent of Roof Cover within area of feature.

002 - 2	DMS > 679
003 - 3	DMS > 105 and <= 679
008 - 8	DMS > 1 and <= 105
010 - 10	DMS = 1

1DS DERIVED DENSITY OF STRUCTURES CODE .... (DA) Coded value indicating Structure Count within area of feature.

000 - 0	DMS = 1
001 - 1	DMS > 1 and <= 105
002 - 2	DMS > 105 and <= 252
003 - 3	DMS > 252 and <= 544
004 - 4	DMS > 544 and <= 679
005 - 5	DMS > 679 and <= 825
006 - 6	DMS > 825 and <= 971
007 - 7	DMS > 971 and <= 1114
008 - 8	DMS > 1114 and <=1262
009 - 9	DMS > 1262 and <= 1408
010 - 10	DMS > 1408 and <= 1554
011 - 11	DMS > 1554 and <= 1700
012 - 12	DMS > 1700 and <= 1845
013 - 13	DMS > 1845

1DT DERIVED DENSITY OF TREE COVER CODE .... (DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.

000 - 0	DMT = 0
001 - 1	DMT >= 1 and <= 29
003 - 3	DMT >= 30

1LN DERIVED LENGTH .... For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

1PH DERIVED PREDOMINANT HEIGHT .... For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...511

1WD DERIVED WIDTH .... For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Fcode	Feature	Attributes/Values	Definition
9D022	HOMOGENEOUS AGGREGATE FEATURE (Cont.)		
	1WD DERIVED WIDTH (Cont.)		
			Increment: Limits: N/A Variance: N/A
		Range: 0...127	
	2HT HEIGHT OF AREAL FEATURE		The height shall be the HGT of the delineated areal feature, or of the tallest feature located within that area, whichever is greater. The height accuracy shall be that of the HGT chosen.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	AOO ANGLE OF ORIENTATION		The angular orientation of a feature with respect to true north.
			Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature. Variance: If the feature is square, the axis 0 through 89 degrees shall be recorded. If the feature is circular, 360 degrees shall be recorded.
		Default: 360 Range: 0...179	
	BFC BUILDING FUNCTION CATEGORY		Type or primary purpose of the building.
		000 - UNKNOWN	
		001 - FABRICATION STRUCTURE	
		002 - GOVERNMENT BUILDING	Any government building not covered under another BFC.
		003 - CAPITOL BUILDING	
		004 - CASTLE	A large building or group of buildings fortified with thick walls, battlements, and often a moat.
		005 - GOVERNMENT ADMINISTRATION BUILDING	
		006 - HOSPITAL	
		007 - HOUSE OF WORSHIP	
		008 - MILITARY ADMINISTRATION / OPERATIONS BUILDING	
		009 - MUSEUM	
		010 - OBSERVATORY	A building that houses optical and/or electronic astronomical observation equipment.
		011 - PALACE	A large, magnificent residential house or building, often the residence of a king, emperor, bishop, etc.
		012 - POLICE STATION	
		013 - PRISON	
		014 - RANGER STATION	
		015 - SCHOOL	
		016 - HOUSE	A single family dwelling.
		017 - MULTI UNIT DWELLING	
		018 - CEMETERY BUILDING	
		019 - FARM BUILDING	Any building on a farm not adequately described by another BFC.
		020 - GREENHOUSE	
		021 - GARAGE	
		022 - WATERMILL /GRISTMILL	
		023 - WIND TUNNEL	
		024 - WAREHOUSE	A large primary storage building, usually of substantial construction.
		025 - ROUNDHOUSE	A circular or semicircular building, with a turntable in the center, used for storing and repairing locomotives. Excludes roundhouses.
		026 - R /R STORAGE /REPAIR FACILITY	
		027 - PASSENGER TERMINAL	
		028 - ADMINISTRATION BUILDING	
		029 - AIRCRAFT MAINTENANCE SHOP	
		030 - HANGAR	A building designed to contain one or more aircraft.
		031 - CUSTOM HOUSE	
		032 - HARBOR MASTER'S OFFICE	
		033 - HEALTH OFFICE	
		035 - POST OFFICE	
		036 - BARRACKS /DORMITORY	A building providing common living quarters for soldiers, students, workers, etc.
		037 - FIRE STATION	
		038 - SHED	A small secondary storage structure, generally of light construction.
		039 - OTHER	
		040 - KENNEL	
		041 - GUARD SHACK	
		050 - LIGHTHOUSE	
		051 - HOTEL	
		052 - DIPLOMATIC BUILDING	Any building associated with an embassy or ambassador.
		053 - COURT HOUSE	

Fcode	Feature	Attributes/Values	Definition
9D022	HOMOGENEOUS AGGREGATE FEATURE (Cont.)		
	BPC	BUILDING FUNCTION CATEGORY (Cont.)	
		054 - NEWS PAPER PLANT	
		055 - BANK	
		056 - LAB /RESEARCH FACILITY	
		057 - TELEPHONE EXCHANGE (MAIN)	
		058 - AUDITORIUM	
		059 - OPERA HOUSE	
		060 - PROCESSING /TREATMENT	
		061 - POWER GENERATION	
		062 - PUMPHOUSE	Located at Pumping Station (1L180)
	CRA	CRANE ATTRIBUTE	Type of crane.
		002 - GANTRY/BRIDGE CRANE	A crane mounted on a traversing platform with supporting towers on each end. The towers may be wheeled or on tracks.
		003 - ROTATING CRANE	
		004 - TOWER CRANE	Rotating crane located on a tower-like structure.
		005 - NOT APPLICABLE	
	DIR	DIRECTIVITY	The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear represent action of the feature.
		002 - BI	Visually significant or reflective from two sides only.
	DNR	DENSITY MEASURE (% OF ROOF COVER)	Roof cover within the overall mass of the entire feature.
		Range: 0...100	Increment: 1 Percent Limits: N/A Variance: N/A
	DNS	DENSITY MEASURE (STRUCTURE COUNT)	The number of structures (of any type) is counted. DNS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DNS = 1.
		Range: 0...No Upper Limit	Increment: 1 Structure Limits: N/A Variance: N/A
	DNT	DENSITY MEASURE (% TREE /CANOPY COVER)	Canopy cover within the overall mass of the entire feature.
		Range: 0...100	Increment: 1 Percent Limits: N/A Variance: N/A
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0	Open = Largest percentage of area is not covered by trees or man-made structures.
		001 - 1	Trees = Largest percentage of area is covered by trees of any height.
		002 - 2	Structures = Largest percentage of area is covered by man-made structures.
	FAN	FEATURE AGGREGATE NUMBER	Indicates the number of individual features available for the aggregate feature.
		001 - 2 OR MORE FEATURES AVAILABLE TO AGGREGATE	
		002 - 3 OR MORE FEATURES AVAILABLE TO AGGREGATE	
	FAT	FEATURE AGGREGATE TYPE	FACS Code of the feature to be aggregated.
		001 - 1A010 MINE	
		002 - 1A030 QUARRY	
		003 - 1A040 RIG/SUPERSTRUCTURE	
		004 - 1B000 DISPOSAL SITE/WASTE PILE	
		005 - 1B010 WRECKING YARD/SCRAP YARD	
		006 - 1C010 BLAST FURNACE	
		007 - 1C020 CATALYTIC CONVERTER	
		008 - 1D020 SOLAR PANEL	
		009 - 1D030 SUBSTATION/TRANSFORMER YARD	
		010 - 1F010 CHIMNEY SMOKESTACK	
		011 - 1F020 CONVEYOR	
		012 - 1F030 COOLING TOWER	
		013 - 1F040 CRANE	

Fcode	Feature	Attributes/Values	Definition
9D022	HOMOGENEOUS AGGREGATE FEATURE (Cont.)		
	FAT	FEATURE AGGREGATE TYPE (Cont.)	
		014 - 1P050 DREDGE, POWERSHOVEL, DRAGLINE	
		015 - 1P060 ENGINE TEST CELL	
		016 - 1P070 FLARE PIPE	
		017 - 1P080 HOPPER	
		018 - 1H050 FORT	
		019 - 1J050 WINDMILL/WINDMOTER	
		020 - 1K020 AMUSEMENT PARK ATTRACTION	
		021 - 1K080 DRIVE-IN THEATER SCREEN	
		022 - 1K110 GRANDSTAND	
		023 - 1K150 SKI JUMP	
		024 - 1K160 STADIUM	
		025 - 1L015 BUILDING	
		026 - 1L050 DISPLAY SIGN	
		027 - 1L070 FENCE	
		028 - 1L073 FLAGSTAFF/FLAGPOLE	
		029 - 1L110 LIGHT STANDARD	
		031 - 1L130 MONUMENT	
		032 - 1L160 PIPELINE/PIPE	
		033 - 1L200 RUINS	
		034 - 1L220 STEEPLE	
		035 - 1L240 TOWER (NON-COMMUNICATION)	
		036 - 1L260 WALL	
		037 - 1M030 GRAIN ELEVATOR	
		038 - 1M040 MINERAL PILE	
		039 - 1M050 SILO	
		040 - 1M060 STORAGE BUNKER/STORAGE MOUND	
		041 - 1M070 TANK	
		042 - 1M080 WATER TOWER	
		043 - 1Q020 AERIAL CABLEWAY PYLON/SKI LIFT PYLON	
		044 - 1Q040 BRIDGE/OVERPASS/VIADUCT	
		045 - 1Q060 CONTROL TOWER	
		046 - 1Q110 MOORING MAST	
		047 - 1T040 POWER TRANSMISSION PYLON	
		048 - 1T070 TELEPHONE PYLON/TELEGRAPH PYLON	
		049 - 1T080 TOWER (COMMUNICATION)	
		051 - 1U050 APPROACH LIGHTING	
		052 - 2D110 PLATFORM	
		054 - 2H010 AQUEDUCT	
		055 - 2H060 FLUME	
		057 - 2I030 LOCK	
		058 - 2I050 WATER INTAKE TOWER	
		059 - 2J060 ICE PEAK, NUNATAK	
		060 - 4B090 EMBANKMENT/FILL	
		061 - 4B160 ROCK FORMATION	
		062 - 5A040 ORCHARD/PLANTATION	
		063 - 5C030 TREES	
		064 - 1M020 GRAIN BIN	
	PSD	FEATURE SEPARATION DISTANCE	Indicates whether at least two individual features within a potential aggregate feature are < 114 m apart, center to center.
		001 - < 114 METERS APART	
		002 - >= 114 M APART	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	GUG	GUYED OR UNGUYED CATEGORY	Presence of support wires.
		000 - UNKNOWN	
		001 - GUYED	Wires present
		002 - UNGUYED	Wires not present
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HOE, or CHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.

Fcode	Feature	Attributes/Values	Definition
9D022	HOMOGENEOUS AGGREGATE FEATURE (Cont.)		
	HGT	HEIGHT ABOVE SURFACE LEVEL (Cont.)	
			Increment: 1 Meter Limits: Measured from the lowest point (downhill side) at ground or at water level.to the tallest point of the feature. Variance: N/A
		Range: 0...No Upper Limit	
	LEN	LENGTH /DIAMETER	A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.
			Increment: 1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	
	LOC	LOCATION /ORIGIN CATEGORY	Placement relative to ground surface, water surface, or shoreline.
		003 - ON GROUND SURFACE	
		004 - SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	
	PHT	PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used.
			Increment: 1 Meter Limits: A resolution of the PHT values of all the structures within the aggregate. Variance: If no PHT value predominates then the greatest PHT value in the aggregate shall be used. The PHT shall be adjusted to account for significantly taller structures, if these structures occupy >= 15% of the areal feature, are > 6m taller than the ...
		Range: 0...No Upper Limit	
	PPC	POWER PLANT CATEGORY	Energy source used to generate power.
		000 - UNKNOWN	
		001 - HYDRO-ELECTRIC	Use of water pressure to turn the generators.
		002 - NUCLEAR	Use of nuclear reaction producing steam to turn the generators.
		003 - SOLAR	Use of the sun's energy to produce steam to turn the generators.
		004 - THERMAL	Use of geothermal steam to turn the generators.
		006 - TIDAL	Use of the rise and fall of water due to tides to turn the generators.
		007 - INTERNAL COMBUSTION	Use of internal combustion motor to turn the generators.
		008 - NOT APPLICABLE	
	PRO	PRODUCT CATEGORY	Principal material involved or product resulting from activity at site.
		006 - CHEMICAL	
		008 - COKE	
		019 - OTHER	
		033 - METAL	
		035 - SEWAGE	
		036 - ELECTRICITY	
		037 - HEAT	
		060 - NOT APPLICABLE	
	RSF	RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
		001 - METAL	>= 75% metal
		002 - PART METAL	>= 40% to < 75% metal
		003 - STONE/BRICK	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
		004 - COMPOSITION	Composed of a variety of materials with < 75% stone/brick and 0% metal
	SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
		001 - NOT APPLICABLE	
		002 - BLIMP	
		004 - BULLET	
		007 - CYLINDRICAL (UPRIGHT) (CAN)	
		017 - SPHERICAL	
		024 - ENCLOSED	
		040 - DOME	Facility is covered by a domed roof.
		046 - OPEN	
		059 - TELESCOPING GASHOLDER (GASOMETER)	

Fcode	Feature	Attributes/Values	Definition
9D022	HOMOGENEOUS AGGREGATE FEATURE (Cont.)		
	SSC STRUCTURE SHAPE CATEGORY (Cont.)		
		079 - OTHER	
	SSR STRUCTURE SHAPE OF ROOF		Roof shape.
		000 - UNKNOWN	
		038 - CURVED (CONVEX)	
		040 - DOME	
		041 - FLAT	
		042 - GABLE (PITCHED)	
		047 - SAWTOOTH	
		055 - FLAT WITH MONITOR	Having a raised portion used to provide light or air.
		064 - GABLE WITH MONITOR	Having a raised portion used to provide light or air.
		070 - OTHER	
	STT STRUCTURE SHAPE OF TANK TOP		The shape of the tank top.
		065 - CYLINDRICAL W/FLAT TOP	
		066 - CYLINDRICAL W/DOME TOP	
		071 - CYLINDRICAL W/PEAK	
		072 - OTHER	
		077 - CYLINDRICAL WITH PEAK TOP	
		078 - NOT APPLICABLE	
	TRE TREE CATEGORY		Type of tree coverage.
		000 - UNKNOWN	
		001 - DECIDUOUS	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
		002 - EVERGREEN	>= 60% Evergreen tree characteristics (permanent foliage present).
		003 - MIXED	An area with both Evergreen and Deciduous trees with on one type being predominant and with varying proportions between >= 40 and <= 60 percent..
	TUC TRANSPORTATION USE CATEGORY		The mode of transportation associated with the feature.
		000 - UNKNOWN	
		003 - RAILROAD	
		012 - MARINE	
		013 - AIR	
		014 - BUS	
		021 - NOT APPLICABLE	
	USE USE STATUS		Identifies the primary user, function, or controlling authority.
		000 - UNKNOWN	
		008 - MILITARY	
		011 - MOTEL /HOTEL	
		012 - APARTMENT	
		041 - INDUSTRIAL	
		042 - COMMERCIAL	
		043 - HOSPITAL	
		044 - RESIDENTIAL	
		045 - AGRICULTURAL	
	VOL VOLUME		Volume/Occupancy Level. This descriptor,has multiple meanings/applications: Size or capacity of industry, amount of activity, or vehicle occupation (i.e., numbers of automobiles/trucks, aircraft, RR cars, ships, etc.
		002 - LIGHT	
		004 - HEAVY	
		005 - NOT APPLICABLE	
	WID WIDTH		A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

9D023	DISSIMILAR AGGREGATE FEATURE	TWO OR MORE FEATURES OF ANY FACS CODE WHICH ARE REPRESENTED AS ONE CONTIGUOUS AGGREGATE FEATURE; WHERE INDIVIDUAL FEATURES IN THE AGGREGATE MAY OR MAY NOT MEET INCLUSION CONDITIONS TO BE DELINEATED INDIVIDUALLY.

Fcode	Feature	Attributes/Values	Definition
9D023	DISSIMILAR AGGREGATE FEATURE (Cont.)		
	2HT	HEIGHT OF AREAL FEATURE	The height shall be the HGT of the delineated areal feature, or of the tallest feature located within that area, whichever is greater. The height accuracy shall be that of the HGT chosen.
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	EOC	EMBEDDED OBSTRUCTION CODE	Predominant background surface surrounding a feature within a distance of 457 meters.
		000 - 0 - - - - - - - - - - - - - - - -	Open - Largest percentage of area is not covered by trees or man-made structures.
		001 - 1 - - - - - - - - - - - - - - - -	Trees - Largest percentage of area is covered by trees of any height.
		002 - 2 - - - - - - - - - - - - - - - -	Structures - Largest percentage of area is covered by man-made structures.
	FAN	FEATURE AGGREGATE NUMBER	Indicates the number of individual features available for the aggregate feature.
		001 - 2 OR MORE FEATURES AVAILABLE TO AGGREGATE - - - - - - - - - - -	
		002 - 3 OR MORE FEATURES AVAILABLE TO AGGREGATE - - - - - - - - - - -	
	FAT	FEATURE AGGREGATE TYPE	FACS Code of the feature to be aggregated.
		001 - 1A010 MINE - - - - - - - - - - - -	
		002 - 1A030 QUARRY - - - - - - - - - - -	
		003 - 1A040 RIG/SUPERSTRUCTURE - - - - -	
		004 - 1B000 DISPOSAL SITE/WASTE PILE - -	
		005 - 1B010 WRECKING YARD/SCRAP YARD - -	
		006 - 1C010 BLAST FURNACE - - - - - - -	
		007 - 1C020 CATALYTIC CONVERTER - - - -	
		008 - 1D020 SOLAR PANEL - - - - - - - -	
		009 - 1D030 SUBSTATION/TRANSFORMER YARD	
		010 - 1F010 CHIMNEY SMOKESTACK - - - - -	
		011 - 1F020 CONVEYOR - - - - - - - - - -	
		012 - 1F030 COOLING TOWER - - - - - - -	
		013 - 1F040 CRANE - - - - - - - - - - -	
		014 - 1F050 DREDGE, POWERSHOVEL, DRAGLINE	
		015 - 1F060 ENGINE TEST CELL - - - - - -	
		016 - 1F070 FLARE PIPE - - - - - - - - -	
		017 - 1F080 HOPPER - - - - - - - - - -	
		018 - 1H050 FORT - - - - - - - - - - - -	
		019 - 1J050 WINDMILL/WINDMOTER - - - - -	
		020 - 1K020 AMUSEMENT PARK ATTRACTION -	
		021 - 1K080 DRIVE-IN THEATER SCREEN - -	
		022 - 1K110 GRANDSTAND - - - - - - - - -	
		023 - 1K150 SKI JUMP - - - - - - - - - -	
		024 - 1K160 STADIUM - - - - - - - - - -	
		025 - 1L015 BUILDING - - - - - - - - - -	
		026 - 1L050 DISPLAY SIGN - - - - - - - -	
		027 - 1L070 FENCE - - - - - - - - - - -	
		028 - 1L073 FLAGSTAFF/FLAGPOLE - - - - -	
		029 - 1L110 LIGHT STANDARD - - - - - - -	
		030 - 1L115 MISCELLANEOUS VERTICAL OBSTRUCTION - - - - - - - - - -	
		031 - 1L130 MONUMENT - - - - - - - - - -	
		032 - 1L160 PIPELINE/PIPE - - - - - - -	
		033 - 1L200 RUINS - - - - - - - - - - -	
		034 - 1L220 STEEPLE - - - - - - - - - -	
		035 - 1L240 TOWER (NON-COMMUNICATION) -	
		036 - 1L260 WALL - - - - - - - - - - - -	
		037 - 1M030 GRAIN ELEVATOR - - - - - - -	
		038 - 1M040 MINERAL PILE - - - - - - - -	
		039 - 1M050 SILO - - - - - - - - - - - -	
		040 - 1M060 STORAGE BUNKER/STORAGE MOUND	
		041 - 1M070 TANK - - - - - - - - - - - -	
		042 - 1M080 WATER TOWER - - - - - - - -	
		043 - 1Q020 AERIAL CABLEWAY PYLON/SKI LIFT PYLON - - - - - - - - - -	
		044 - 1Q040 BRIDGE/OVERPASS/VIADUCT - -	
		045 - 1Q060 CONTROL TOWER - - - - - - -	
		046 - 1Q110 MOORING MAST - - - - - - - -	
		047 - 1T040 POWER TRANSMISSION PYLON - -	
		048 - 1T070 TELEPHONE PYLON/TELEGRAPH PYLON - - - - - - - - - - -	
		049 - 1T080 TOWER (COMMUNICATION) - - -	
		050 - 1U040 AIRCRAFT FACILITY BEACON - -	
		051 - 1U050 APPROACH LIGHTING - - - - -	

Pcode	Feature	Attributes/Values	Definition
9D023	DISSIMILAR AGGREGATE FEATURE (Cont.)		
	FAT	FEATURE AGGREGATE TYPE (Cont.)	
		052 - 2D110 PLATFORM	
		054 - 2H010 AQUEDUCT	
		055 - 2H060 FLUME	
		057 - 2I030 LOCK	
		058 - 2I050 WATER INTAKE TOWER	
		059 - 2J060 ICE PEAK, NUNATAK	
		060 - 4B090 EMBANKMENT/FILL	
		061 - 4B160 ROCK FORMATION	
		062 - 5A040 ORCHARD/PLANTATION	
		063 - 5C030 TREES	
	FSD	FEATURE SEPARATION DISTANCE	Indicates whether at least two individual features within a potential aggregate feature are < 114 m apart, center to center.
		001 - < 114 METERS APART	
		002 - >= 114 M APART	
	GHE	GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
			Increment: 1 Meter Limits: Measured along a straight line. Variance: N/A
		Range: > 0...No Upper Limit	
	HAC	HEIGHTING ACCURACY	The 90% linear error for the height attribute HGT (PHT, HDE, or OHB, if present).
			Increment: 1 Meter Limits: N/A Variance: N/A
		Range: > 0...No Upper Limit	
	HGT	HEIGHT ABOVE SURFACE LEVEL	The vertical distance from the ground or water level to the top of the feature.
			Increment: 1 Meter Limits: Greatest distance in elevation encountered along the horizontal extent of the feature when measured from the surface to the top. Variance: N/A
		Range: 0...No Upper Limit	
	WID	WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN.
			Increment: 1 Meter Limits: Average distance across the feature measured perpendicular to the longest side of a Best Fitting Rectangle. Variance: N/A
		Range: > 0...No Upper Limit	

Pcode	Feature	Attributes/Values	Definition
9D040	NAMED LOCATION		A POPULATED PLACE, OR OTHER GEOGRAPHIC PLACE ON THE EARTH, FOR WHICH A PROPER NAME IS REQUIRED, BUT WHICH IS NOT NAMED BY THE NAM ATTRIBUTE OF ANY OTHER SPECIFIC FACS FEATURE.
	CSI	CATEGORY/SUBCATEGORY INDEX	General category of the feature which is described by the name. Category is based on FACS category/subcategory index.
		000 - UNKNOWN	
		001 - 1A-1C-1D	Culture /Industry
		002 - 1H-1K-1L	Culture /Recreational /Miscellaneous
		003 - 1M-1P-1Q	Culture /Transportation
		004 - 1T	Culture /Communication - Transmission
		005 - 1U	Culture /Airports
		006 - 2A	Hydrography /Coastal Hydro
		007 - 2B	Hydrography /Ports and Harbors
		008 - 2H	Hydrography /Inland Water
		009 - 4B	Physiography /Landforms
		010 - 5	Vegetation
		011 - 6	Demarcation

Fcode	Feature	Attributes/Values	Definition
9D040	NAMED LOCATION (Cont.)		
	CSI	CATEGORY/SUBCATEGORY INDEX (Cont.)	
		012 - 9	Miscellaneous
		013 - GENERAL NOTES	
		014 - CLIMATIC NOTES	
		015 - HISTORIC NOTES	
		016 - TERRAIN CHARACTERISTICS	
		017 - NOT APPLICABLE	
	NAM	NAME CATEGORY	The proper name, identifying code, or number of a feature.
		000 - ANY IDENTIFIER	
	PPL	POPULATED PLACE CATEGORY	An area inhabited by a number of people within a concentrated geographical area.
		001 - 1ST CLASS	>= 500,000
		002 - 2ND CLASS	>= 50,000 and < 500,000
		003 - 3RD CLASS	>= 10,000 and < 50,000
		004 - 4TH CLASS	>= 5,000 and < 10,000
		005 - 5TH CLASS	< 5,000

9D045	TEXT DESCRIPTION		AN AREA IN WHICH A CHARACTERISTIC OR AN ACTIVITY PERTAINING TO THE AREA CANBE DESCRIBED AND POSSIBLY LABELLED ON A PRODUCT IF DEEMED IMPORTANT AT THE TIME THE PRODUCT IS BEING PRODUCED.
	CSI	CATEGORY/SUBCATEGORY INDEX	General category of the feature which is described by the name. Category is based on FACS category/subcategory index.
		000 - UNKNOWN	
		001 - 1A-1C-1D	Culture /Industry
		002 - 1E-1K-1L	Culture /Recreational /Miscellaneous
		003 - 1N-1P-1Q	Culture /Transportation
		004 - 1T	Culture /Communication - Transmission
		005 - 1U	Culture /Airports
		006 - 2A	Hydrography /Coastal Hydro
		007 - 2B	Hydrography /Ports and Harbors
		008 - 2H	Hydrography /Inland Water
		009 - 4B	Physiography /Landforms
		010 - 5	Vegetation
		011 - 6	Demarcation
		012 - 9	Miscellaneous
		013 - GENERAL NOTES	
		014 - CLIMATIC NOTES	
		015 - HISTORIC NOTES	
		016 - TERRAIN CHARACTERISTICS	
		017 - NOT APPLICABLE	
	LAB	LABEL OF THE FEATURE	Label applied to the feature.
		000 - ANY LABEL	
	MTS	MISCELLANEOUS TEXTUAL DESCRIPTION	Textual description of the feature.
		000 - ANY DESCRIPTION	
	VRC	VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
		001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER)	
		004 - BELOW SURFACE /SUBMERGED	
		008 - COVERS AND UNCOVERS	

9D060	VERTICAL RELIABILITY AREA LIMITS		AREA ON MAP/CHART WITH A UNIQUE VERTICAL RELIABILITY (ACCURACY)

Fcode	Feature	Attributes/Values	Definition
9D066	ANNOTATION DESCRIPTION		A SPECIAL FEATURE USED TO DESCRIBE SPECIAL CHARACTERISTICS OF OTHER MC&G DATA BASE FEATURES.
	ACP	ANNOTATION CATEGORY PRIMARY	The Primary Target Category Code assigned to this Target.
		000 - CHAR: 5 N - - - - - - - - - - - -	
	ANT	ANNOTATION TYPE	Type of special feature requiring an annotation.
		001 - TARGET REFERENCE POINT - - - - - -	
		002 - SPECIAL AREA - - - - - - - - - - -	
		003 - RADAR SIGNIFICANT POWER LINE (RSPL)	
		004 - PRECISE RADAR SIGNIFICANT LOCATION (PRSL) - - - - - - - - - - - - -	
		005 - POINT TARGET NOT DEFINED UNDER EXISTING FACS CODE - - - - - - -	
		008 - UNCONFIRMED TARGET - - - - - - - -	
		009 - MULTIPLE TARGETS WITHIN AREA TARGET	
	BEN	B. E. NUMBER	The WAC-BE Number of this annotation.
		000 - ANY NUMBER - - - - - - - - - - - -	CHAR: 10 N
	DRI	DATA REFERENCE IDENTIFIER	A unique identifier referencing specific map /chart data to a textual description.
		000 - ANY IDENTIFIER - - - - - - - - - -	CHAR: 4 A/N
	PFL	PROPER NAME/FUNCTION/LOCATION DESCRIPTIO ..	Annotation Proper Name.
		000 - CHAR: 80 A/N - - - - - - - - - -	
	RLN	REFERENCE POINT LONGITUDE	Longitude coordinate location of the special annotation feature; geodetic or cartometric derived coordinate. Format as DDDMMSSSSH (Degrees, Minutes, Seconds and Hemisphere) with an implied decimal to hundredths of a second. All leading zeroes required.
		000 - CHAR: 10 A/N - - - - - - - - - -	
	RLT	REFERENCE POINT LATITUDE	Latitude coordinate location of the special annotation feature; geodetic or cartometric derived coordinate. Format as DDMMSSSSH (Degrees, Minutes, Seconds and Hemisphere) with an implied decimal to hundredths of a second. All leading zeroes required.
		000 - CHAR: 9 A/N - - - - - - - - - - -	
	SPL	ANNOTATION SALIENT PHYSICAL DESCRIPTION ...	Annotation Physical Text Description.
		000 - CHAR: 510 A/N - - - - - - - - - -	
	ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level.
			Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A
		Range: -400...30000	

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. This DMA Military Standard, MIL-STD-2408, is primarily intended for DMA and its contractors for the production of MC&G products. It is designed to be used in support of and in conjunction with other DMA MC&G Military Specifications and Standards. The FACS coding used in this standard is consistent with DMA internal production methods, rather than the DMA Vector Product Format (VPF), which is used in conjunction with the Digital Geographic Information Exchange Standard (DIGEST) Feature Attribute Coding Catalog (FACC).

6.2 Acquisition requirements. When this standard is used in acquisition, the applicable issue of the DODISS must be cited in the solicitation (see 2.1).

6.3 Suppersession. This standard supersedes the DMA Standard Supporting Mark 90, Section 100, Glossary-Feature/Attribute Definitions, Third Edition, December 1988.

6.4 Standardization agreements. Certain provisions of this standard are subject of international standardization agreements. When amendment, revision, or cancellation of this standard is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement, or make other appropriate accommodations.

6.4.1 NATO Standardization Agreements (STANAGs).

This section is not applicable to this standard.

6.4.2 Quadripartite Standardization Agreements (QSTAGs).

This section is not applicable to this standard.

6.4.3 Air Standardization Coordinating Committee Agreements (ASCCs).

This section is not applicable to this standard.

6.4.4 International MC&G agreements.

This section is not applicable to this standard.

6.4.5 Executive orders.

This section is not applicable to this standard.

6.4.6 Inter-Agency agreements.

This section is not applicable to this standard.

6.4.7 Other documentation.

This section is not applicable to this standard.

6.5 Subject term (key word) listing. This paragraph contains an alphabetical listing of subject terms (key words) that allow for identification of the document during retrieval searches. Note that subject terms do **not** repeat words from the title of this document, "Military Standard, Glossary of Mapping, Charting, & Geodesy, Feature and Attribute Definitions":

A (Attribute) Code
Aeronautical Data Maintenance
Attribute Value
AV (Attribute Value) Code
Coding
Culture
Defense Mapping Agency (DMA)
Definitions
Demarcation
Department of Defense Index of Specifications and Standards (DODISS)
Descriptive Characteristics/Properties
Earth Objects/Entities
F (Feature) Code
Feature/Attribute Coding System (FACS)
Hydrography
Hypsography
Increment
Limits
MC&G Products
MIL-STD-2408
Physiography
Range
Variance
Vegetation

ALL ATTRIBUTES AND THEIR VALUES

10. SCOPE

10.1 Scope. This appendix provides a complete listing of all the MC&G Glossary attributes and their associated values. Within the main portion of the Glossary, the attributes and values given are tailored to only those required by each specific feature - albeit for any and all the products using that feature. This appendix is an optional part of the standard: therefore, any conflict between it and either the main body of this Glossary or the other cited standards shall be resolved as per the latter.

20. APPLICABLE DOCUMENTS

This section is not applicable to this standard.

30. ALL ATTRIBUTES AND THEIR VALUES

30.1 Use of all attributes and their values table. This table is intended as an aid to those users who need to know the full range of values associated with each attribute or the full list of possible attributes. Thus, it contains a complete list of the current possible attributes and values that could be linked to any or all of the various features.

30.2 Table of all attributes and their values. See following pages numbered 429 through 498.

Attributes/Values # / Definition

1AO DERIVED ANGLE OF ORIENTATION CODE ..... For computation only, AOO shall be rounded to the nearest 5 degree increment. 1AO = AOO/11.25 (rounded to nearest whole number). If AOO = 360, then 1AO = 63.

Increment:
Limits: N/A
Variance: N/A

Default:63
Range: >0...No Upper Limit

1AR DERIVED ANGLE OF RADAR REFLECTOR ..... For computation only, ARR shall be rounded to the nearest 5 degree increment. 1AR = ARR/11.25 (rounded to nearest whole number). If ARR = 360, then 1AR = 63.

Increment:
Limits: N/A
Variance: N/A

Default:63
Range: 0...31

1DE DERIVED DEPTH ..... For computation only, 1DE = DEP/-2. Subtract 0.5 from quotient and truncate.

Increment:
Limits: N/A
Variance:

Range: -511...0

1DR DERIVED DENSITY OF ROOF COVER CODE ..... (DA) Coded value indicating percent of Roof Cover within area of feature.

000 - 0	- - - - - - - - - - - - - - - - - - - -	0	
002 - 2	- - - - - - - - - - - - - - - - - - - -	0	DMS > 679
003 - 3	- - - - - - - - - - - - - - - - - - - -	0	DMS > 105 and <= 679
008 - 8	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1 and <= 105
010 - 10	- - - - - - - - - - - - - - - - - - - -	0	DMS = 1
010 - 10	- - - - - - - - - - - - - - - - - - - -	1	

1DS DERIVED DENSITY OF STRUCTURES CODE ..... (DA) Coded value indicating Structure Count within area of feature.

000 - 0	- - - - - - - - - - - - - - - - - - - -	0	DMS = 1
000 - 0	- - - - - - - - - - - - - - - - - - - -	1	
001 - 1	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1 and <= 105
002 - 2	- - - - - - - - - - - - - - - - - - - -	0	DMS > 105 and <= 252
003 - 3	- - - - - - - - - - - - - - - - - - - -	0	DMS > 252 and <= 544
004 - 4	- - - - - - - - - - - - - - - - - - - -	0	DMS > 544 and <= 679
005 - 5	- - - - - - - - - - - - - - - - - - - -	0	DMS > 679 and <= 825
006 - 6	- - - - - - - - - - - - - - - - - - - -	0	DMS > 825 and <= 971
007 - 7	- - - - - - - - - - - - - - - - - - - -	0	DMS > 971 and <= 1114
008 - 8	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1114 and <=1262
009 - 9	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1262 and <= 1408
010 - 10	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1408 and <= 1554
011 - 11	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1554 and <= 1700
012 - 12	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1700 and <= 1845
013 - 13	- - - - - - - - - - - - - - - - - - - -	0	DMS > 1845

1DT DERIVED DENSITY OF TREE COVER CODE ..... (DA) Coded value indicating percent of Tree/Canopy Cover within area of feature.

000 - 0	- - - - - - - - - - - - - - - - - - - -	0	DMT = 0
000 - 0	- - - - - - - - - - - - - - - - - - - -	1	
001 - 1	- - - - - - - - - - - - - - - - - - - -	0	DMT >= 1 and <= 29
003 - 3	- - - - - - - - - - - - - - - - - - - -	0	DMT >= 30

1HT DERIVED HEIGHT ..... For computation only, 1HT = HGT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: -511...511

1LN DERIVED LENGTH ..... For computation only, 1LN = LEN/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.

Increment:
Limits: N/A
Variance: N/A

Range: 0...127

1OD DERIVED OBSTACLE DEPTH CATEGORY ..... Coded value indicating predominant obstacle depth range in meters within delineation of feature.

001 - > 1.5 AND <= 5.0 FFD	- - - - - - - -	0
002 - > 5.0 AND <= 10.0 FFD	- - - - - - -	0
003 - > 10.0 AND <= 20.0 FFD	- - - - - - -	0
004 - > 20.0 AND <= 40.0 FFD	- - - - - - -	0
005 - > 40.0 FFD	- - - - - - - - - - - - -	0
006 - NOT APPLICABLE	- - - - - - - - - - -	0

1OH DERIVED OBSTACLE HEIGHT CATEGORY ..... Coded value indicating predominant obstacle height range in meters within delineation of feature.

Attributes/Values	# / Definition
1OH DERIVED OBSTACLE HEIGHT CATEGORY (Cont.)	
001 - > 1.5 AND <= 5.0 PFH - - - - - - - 0	
002 - > 5.0 AND <= 10.0 PFH - - - - - - 0	
003 - > 10.0 AND <= 20.0 PFH - - - - - - 0	
004 - > 20.0 AND <= 40.0 PFH - - - - - - 0	
005 - > 40.0 PFH - - - - - - - - - - - - - 0	
006 - NOT APPLICABLE - - - - - - - - - - 0	
1PH DERIVED PREDOMINANT HEIGHT	For computation only, 1PH = PHT/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
	Increment: Limits: N/A Variance: N/A
Range: 0...511	
1WD DERIVED WIDTH	For computation only, 1WD = WID/2. If the quotient is >= 0 add 0.5 and truncate; if < 0 subtract 0.5 and truncate.
	Increment: Limits: N/A Variance: N/A
Range: 0...127	
2HT HEIGHT OF AREAL FEATURE	The height shall be the HGT of the delineated areal feature, or of the tallest feature located within that area, whichever is greater. The height accuracy shall be that of the HGT chosen.
	Increment: 1 Meter Limits: N/A Variance: N/A
Range: > 0...No Upper Limit	
AAA SABKHA DEFINITION CONTINUED	...BY COASTAL FLOODING, SURFACE OR SUBSURFACE RUNOFF ACCUMULATION, CAPILLARY RISE, EVAPORATION, OR TIDAL ACTION. HALOPHYTIC VEGETATION GROWING THROUGH THE CRUST MAY BE PRESENT.
000 - NO ATTRIBUTE - - - - - - - - - - - 0	
ABM AIRCRAFT BUNKER REMARKS	Pertinent remarks about the feature.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
ACC ACCURACY CATEGORY	Accuracy of geographic position.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - ACCURATE - - - - - - - - - - - - - 0	
001 - ACCURATE - - - - - - - - - - - - - 1	Solid line curve.
002 - APPROXIMATE - - - - - - - - - - - 0	
002 - APPROXIMATE - - - - - - - - - - - 1	Dashed line curve.
002 - APPROXIMATE - - - - - - - - - - - 2	Labeled PA on source.
002 - APPROXIMATE - - - - - - - - - - - 3	Exact location is doubtful.
003 - DOUBTFUL - - - - - - - - - - - - - 0	
003 - DOUBTFUL - - - - - - - - - - - - - 2	Labeled PD on source.
004 - NOT APPLICABLE - - - - - - - - - - 0	
005 - DISPUTED - - - - - - - - - - - - - 0	Position is not assured due to being in dispute.
006 - UNDISPUTED - - - - - - - - - - - - 0	Position is assured and not disputed.
ACP ANNOTATION CATEGORY PRIMARY	The Primary Target Category Code assigned to this Target.
000 - CHAR: 5 N - - - - - - - - - - - - 0	
ADC AQUEDUCT DESIGN CATEGORY	Structural design characteristics of the aqueduct support.
001 - ARCH - - - - - - - - - - - - - - - 0	
002 - OTHER - - - - - - - - - - - - - - 0	
ADD ANALYST CODE	Analyst's two letter code assigned to indicate his /her area of responsibility.
000 - CHAR: 2 A/N - - - - - - - - - - - 0	
AED ARRESTING GEAR ENGAGEMENT DIRECTION	The direction the aircraft must be moving in order to utilize this feature.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - LOW IDENTIFIER - - - - - - - - - - 0	From the low to the high identifier end of the runway.
002 - HIGH IDENTIFIER - - - - - - - - - 0	From the high to the low identifier end of the runway.
003 - BI-DIRECTIONAL - - - - - - - - - - 0	Engageable from either direction.
AFL APRON FLOOD LIGHTS AVAILABILITY	The availability of Apron Flood lights.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
AFT AIRCRAFT FACILITY TYPE	The facility type based upon the primary kind of aircraft that use this feature and/or the type of landing area(s) available.
000 - UNKNOWN - - - - - - - - - - - - - 0	

Attributes/Values | # / Definition

AFT AIRCRAFT FACILITY TYPE (Cont.)

001 - AIRPORT	0	This feature is intended to be used primarily by conventional, fixed wing aircraft.
002 - HELIPORT	0	This feature is intended to be used primarily by rotary wing and /or VTOL aircraft.
003 - SEAPLANE BASE	0	This feature has water as the surface of its principle landing area(s).
004 - UNDEFINED LANDING AREA	0	A maintained but unimproved natural area without defined runway(s) used for aircraft landing and take off. Dimensions (LEN and WID) are of the overall landing area.
005 - OTHER	0	

AGL ARRESTING GEAR LOCATION ..... The distance of the arresting system from the closest threshold of the runway /landing area referenced by Runway Cross Reference Code (RWC).

Increment: 0.1 Meter
Limits: Positive value indicates position toward high end of runway. Zero value indicates position at low end coordinate of runway. Negative value indicates position prior to low end coordinate of runway.
Variance: N/A

Default:1646.0=Unknown
Range: -609.5...1645.5

AGT ARRESTING GEAR TYPE ..... The type of arresting system being used. The type of arresting system being used.

000 - UNKNOWN	0
001 - UNKNOWN TYPE CABLE	0
002 - UNKNOWN TYPE NET	0

AHC ASSOCIATED HYDROGRAPHIC CATEGORY ..... The annual water content of the associated hydrographic feature as defined by the Inland Shoreline.

001 - PERENNIAL	0	Contains water six months or more per year.
002 - INTERMITTENT	0	Contains water less than six months per year.
003 - EPHEMERAL	0	Dry; water may be present during rain or flood.

AID AIRSPACE IDENTIFICATION ..... The official designator as assigned to the airspace by the host nation. Those portions of the designator not provided will be created by Site 30 area analyst and enclosed within parentheses.

000 - CHAR: 12 A/N	0

AKY AIRPORT KEY ..... Unique identification of the airport where: 1-2 Country Code, 3-6 WAC, 7-12 Installation Number.

000 - CHAR: 12 A/N	0

ANC ANCHORAGE TYPE CATEGORY ..... Type of vessel anchorage.

001 - ANCHORING BERTHS	0	
002 - EXPLOSIVE	0	
007 - QUARANTINED	0	
008 - RESERVED	0	
009 - SEAPLANE	0	
012 - DEEPWATER /DEEP DRAFT	0	
013 - GENERAL	0	Anchorage available for all types and sizes of vessels.
014 - TANKER	0	
015 - TIME LIMITED	0	

ANT ANNOTATION TYPE ..... Type of special feature requiring an annotation.

001 - TARGET REFERENCE POINT	0
002 - SPECIAL AREA	0
003 - RADAR SIGNIFICANT POWER LINE (RSPL)	0
004 - PRECISE RADAR SIGNIFICANT LOCATION (PRSL)	0
005 - POINT TARGET NOT DEFINED UNDER EXISTING FACS CODE	0
008 - UNCONFIRMED TARGET	0
009 - MULTIPLE TARGETS WITHIN AREA TARGET	0

AOD ANGLE OF DAM ..... The angle measured clockwise from true north around to the downstream face of the dam.

Increment: 1 Degree
Limits: N/A
Variance: N/A

Range: 0...359

AOO ANGLE OF ORIENTATION ..... The angular orientation of a feature with respect to true north.

Increment: 1 Degree
Limits: Measured from true North (0 degrees) clockwise to the major axis of the feature.
Variance: Axis indicated by direction through the pass.

Default:360
Range: 0...179

Attributes/Values	# / Definition
APS AMUSEMENT PARK STRUCTURE	Type of structure observed.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - ARTIFICIAL MOUNTAIN - - - - - - - - 0	
002 - FERRIS WHEEL - - - - - - - - - - - 0	
003 - ROLLER COASTER - - - - - - - - - - 0	
004 - SPHERE - - - - - - - - - - - - - - 0	
005 - OTHER - - - - - - - - - - - - - - - 0	
ARA AREA COVERAGE ATTRIBUTE	The absolute area within the delineation of the feature.
	Increment: 1 Square Meter Limits: N/A Variance: N/A
Range: 0...No Upper Limit	
ARE AREA WITH GREATER PRECISION	The absolute area within the delineation of the feature measured with greater precision.
	Increment: 0.1 Square Meter Limits: N/A Variance: N/A
Range: 0.1...30480000.0	
ARR ANGLE OF RADAR REFLECTOR	The angular distance of the radar reflector.
	Increment: 1 Degree Limits: Measured from True North (0 dg), clockwise to the first encountered reflective side, or the only reflective side of the radar reflector. Variance: If DIR = 1, ARR = 0-359. If DIR = 2, ARR = 0-179. If DIR = 3, ARR = 360
Range: 0...360	
AST AIRPORT STRIP TYPE	If applicable, the type of strip this aircraft facility is.
001 - NONE - - - - - - - - - - - - - - - 0	
002 - HIGHWAY STRIP - - - - - - - - - - - 0	
003 - ICE STRIP - - - - - - - - - - - - - 0	
004 - SNOW STRIP - - - - - - - - - - - - 0	
005 - DECOY - - - - - - - - - - - - - - - 0	
ATC AQUEDUCT TYPE CATEGORY	Type of aqueduct.
001 - QANAT/KANAT/KAREZ MAINTENANCE SHAFT 0	A vertical shaft used for the construction or maintenance of a qanat, kanat, or karez tunnel.
002 - OTHER - - - - - - - - - - - - - - - 0	
003 - QANAT/KANAT/KAREZ TUNNEL - - - - - - 0	A gently sloping tunnel which taps a supply of ground water and transports it by gravity for some distance to where the tunnel intersects the ground surface. It is characterized by vertical maintenance shafts along its length.
ATN AIDS TO NAVIGATION	Indication of whether a feature is marked or unmarked by navigation aids.
001 - MARKED - - - - - - - - - - - - - - 0	
002 - UNMARKED - - - - - - - - - - - - - 0	
ATT ARTIFACT TYPE	Identification of the feature to which the artifact is linked.
000 - CHAR: 5 A/N - - - - - - - - - - - 0	
AUA ATS USE ATTRIBUTE	The particular use of the designated airspace.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - ADVISORY AREA (ADA) - - - - - - - - 0	
002 - AIR DEFENSE IDENTIFICATION ZONE (ADIZ) - - - - - - - - - - - - - - 0	
003 - AIR ROUTE TRAFFIC CONTROL CENTER (ARTCC) - - - - - - - - - - - - - 0	
004 - ALERT AREA - - - - - - - - - - - - 0	
005 - AREA CONTROL CENTER (ACC) - - - - - 0	
006 - BUFFER ZONE (BZ) - - - - - - - - - 0	
007 - CANADIAN AIR DEFENSE IDENTIFICATION ZONE (CADIZ) - - 0	
008 - CONTROL AREA (CTA) - - - - - - - - 0	
009 - CONTROL ZONE (CTLZ) - - - - - - - - 0	
010 - DANGER AREA - - - - - - - - - - - - 0	
011 - DEW EAST MILITARY IDENTIFICATION ZONE (DEWIZ) - - - - - - - - - - 0	
012 - DISTANT EARLY WARNING IDENTIFICATION ZONE (DEWIZ) - - 0	
013 - FLIGHT INFORMATION REGION (FIR) - 0	
014 - FRENCH PERIPHERAL IDENTIFICATION ZONE (LIP) - - - - - - - - - - - - 0	
015 - MILITARY AERODROME TRAFFIC ZONE (MATZ) - - - - - - - - - - - - - 0	
016 - MILITARY COMMON AREA CONTROL (MCAC) 0	
017 - MILITARY CLIMB CORRIDOR (MCC) - - - 0	
018 - MILITARY FLYING AREA (CANADA, MFA) 0	
019 - MID-CANADA IDENTIFICATION ZONE (MIDIZ) - - - - - - - - - - - - 0	

Attributes/Values | # / Definition

AUA ATS USE ATTRIBUTE (Cont.)

020 -	MILITARY OPERATIONS AREA (MOA)	0
021 -	MILITARY TERMINAL CONTROL AREA (MTCA)	0
022 -	MILITARY UPPER CONTROL AREA (MUCA)	0
023 -	OCEANIC CONTROL AREA (NON-FAA) (OCA)	0
024 -	OPERATING AREA (OPAREA)	0
025 -	PROHIBITED AREA	0
026 -	POSITIVE CONTROL AREA (PCA)	0
027 -	POSITIVE CONTROL ZONE (PCZ)	0
028 -	RADAR AREA	0
029 -	RESTRICTED AREA	0
030 -	SECURITY IDENTIFICATION ZONE (SIZ)	0
031 -	SPECIAL AIR TRAFFIC RULES AREA	0
032 -	SPECIAL RULES ZONE	0
033 -	TRANSITION AREA (FOR CHART USE ONLY, TA)	0
034 -	TERMINAL CONTROL AREA (TCA)	0
035 -	CONTINENTAL CONTROL AREA (CCA)	0
036 -	TOUCHDOWN ZONE	0
037 -	TERMINAL RADAR SERVICE AREA (TRSA)	0
038 -	UPPER ADVISORY AREA (UDA)	0
039 -	UPPER CONTROL AREA (UTA)	0
040 -	UPPER FLIGHT INFORMATION REGION (UIR)	0
041 -	WARNING AREA	0
042 -	ZONE OF INTERIOR (ZI)	0
043 -	OTHER	0
044 -	KOREA LIMITED IDENTIFICATION ZONE (KLIZ)	0
045 -	UNCONTROLLED AIRSPACE	0
046 -	CONTROLLED AIRSPACE	0
047 -	AIRPORT TRAFFIC AREA (ATA)	0
048 -	AIRPORT RADAR SERVICE AREA (ARSA)	0
049 -	CONTROLLED FIRING AREA	0
050 -	PARACHUTE JUMP AREA	0
051 -	AIRPORT ADVISORY AREA	0
052 -	DESIGNATED MOUNTAINOUS AREA	0
053 -	OCEANIC CONTROL	0
054 -	NON-FREE FLYING AREA	0
055 -	CONTROL ZONE - NO FIXED WING SPECIAL VFR PERMITTED	0
056 -	ALTIMETER CHANGE BOUNDARY	0
057 -	DEFENSE AREA	0
058 -	AERODROME CONTROL ZONE	0
059 -	CLASS 'C' CONTROL ZONE	0
060 -	SPARSELY SETTLED AREA	0
061 -	NORTHERN DOMESTIC AIRSPACE	0
062 -	ICAO CROSSOVER	0
063 -	UPPER AIRSPACE CENTERS OPERATIONAL AIR TRAFFIC	0 Above FL245 OAT
064 -	CONTROLLED VISUAL FLIGHT RULES (CVFR)	0
065 -	BIRD HAZARD AREAS	0
066 -	TEMPORARY RESERVED AIRSPACE (TRA)	0
067 -	AIR ROUTE TRAFFIC CONTROL CENTER SECTOR OR DISCRETE SECTOR	0
068 -	SUB FLIGHT INFORMATION REGION (SUB FIR)	0
069 -	RADAR AREA SECTOR BOUNDARY	0
070 -	OCEANIC CONTROL AREA (FAA) (CTA)	0
071 -	RADAR - STAGE 1	0
072 -	RADAR - STAGE 2	0
073 -	RADAR - STAGE 3	0
074 -	REFUELING /TRACK AREA	0
075 -	BERLIN CONTROL ZONE	0
076 -	BERLIN CONTROL ZONE ASSOCIATED CORRIDORS	0

AVB AVAILABILITY ATTRIBUTE ..... The availability of a feature at the aircraft facility site.

005 -	ACCESS ROAD TO GRAVEL HIGHWAY	0
006 -	ACCESS ROAD TO SECONDARY HIGHWAY	0
007 -	ACCESS ROAD TO PRIMARY HIGHWAY	0
009 -	ACCESS ROAD TO ALL WEATHER HIGHWAY	0
014 -	BRANCH LINE	0
015 -	SPUR ACCESS TO MAIN LINE	0
016 -	SPUR ACCESS TO BRANCH LINE	0
017 -	BRANCH TO MAIN LINE	0
018 -	RAILROAD JUST EAST OF AIRPORT	0
019 -	RAILROAD JUST WEST OF AIRPORT	0
020 -	RAILROAD JUST NORTH OF AIRPORT	0
021 -	RAILROAD JUST SOUTH OF AIRPORT	0
022 -	MAIN LINE	0
023 -	RAILROAD AT TOWN	0

BUI FUEL STORAGE METHOD ..... The indication of the relative density of the Built-Up Area. Method of aircraft fuel storage for like fuel storage containers.

000 -	UNKNOWN	0

Attributes/Values	#	/ Definition
B01 FUEL STORAGE METHOD (Cont.)		
001 - K	0	Buried Tank.
002 - C	0	Aboveground Tank.
003 - H	0	Aboveground and Buried Tanks.
004 - B	0	Semi-buried Tank.
005 - G	0	Aboveground and Semi-buried Tanks.
006 - F	0	Buried and Semi-buried Tanks.
007 - D	0	Railroad Tank Car.
008 - P	0	Truck.
009 - M	0	Barrels, Drums, or Cans.
010 - J	0	Buried, Semi-buried, and Aboveground Tanks.
BAC BUILT-UP AREA CLASSIFICATION		The indication of the relative density of the Built-Up Area.
001 - SPARSE TO MODERATE	0	Most buildings coalesce in a side to side direction along the street, but space between the backs of the buildings is such that coalescence does not occur, when plotted at point symbol size (25 m x 25 m on ground).
002 - DENSE	0	Most buildings coalesce both side to side and back to back, when plotted at point symbol size (25 m x 25 m on ground).
BCC BYPASS CONDITION CATEGORY		The ease or ability to circumvent a destroyed section of a bridge within a 2 kilometer distance on each side of the bridge. Bypass condition will not consider other bridges in bypass determination.
001 - EASY	0	The obstacle can be crossed within the immediate vicinity of the bridge by a U.S. 2.5 ton, 6 x 6 truck (or NATO equivalent) without work to improve the bypass.
002 - DIFFICULT	0	The obstacle can be crossed within the immediate vicinity of the bridge, but some work will be necessary to prepare the bypass.
003 - IMPOSSIBLE	0	The obstacle can be crossed by: 1) repair of bridge 2) construction of new bridge 3) bridge detour (an alternate route, crossing the obstacle some distance from the original site, normally following existing roads)
BDC BRIDGE DESIGN CATEGORY		Structural design characteristics of the bridge or bridge segment.
000 - UNKNOWN	0	
001 - ARCH (CLOSED SPANDREL)	0	A bridge that consists of an arch(s) with closed or solid spandrel(s) and a floor system.
002 - CANTILEVER	0	A bridge that has beams, girders, or trusses that extend toward each other beyond their means of support, and are joined together either directly or by a suspended span.
003 - DECK	0	Support elements are below the deck and not in the form of an arch.
004 - SLAB	0	A short span bridge consisting primarily of a reinforced concrete slab resting directly on the abutments or intermediate supports.
005 - FLOATING BRIDGE	0	A temporary bridge that is supported by low flat bottom boats or other floating structures.
006 - GIRDER	0	A bridge supported by two or more parallel girders with transverse floor beams.
007 - STRINGER (BEAM)	0	A bridge in which the main supporting members are longitudinal spanning stringers (beams) upon which the flooring rests.
008 - TRUSS	0	A bridge consisting of top and bottom cords with an intervening framework of diagonal, vertical, or horizontal elements transmitting the roadway loads to the substructure.
009 - SUSPENSION	0	A bridge which has its roadway suspended by cables or chains that pass towers and are securely anchored at both ends of the suspended spans.
011 - OTHER	0	
012 - TRANSPORTER (FERRY BRIDGE)	0	A bridge in which traffic is carried in a cage or car which is suspended from an overhanging bridging member.
014 - ARCH (OPEN SPANDREL)	0	A bridge that consists of an arch(s) with open spandrel(s) and floor system.
015 - CABLE STAYED	0	A bridge where the intermediate support(s) have pole like towers with cables supporting the superstructure and roadway.
BEN B. E. NUMBER		The WAC-BE Number of this annotation.
000 - ANY NUMBER	1	CHAR: 10 N
BER BERTH IDENTIFIER		The designated number or letter used to identify this feature.
000 - ANY IDENTIFIER	0	
BF1 BROADCAST FREQUENCY (1)		The frequency in kilohertz (kHz) on which a station broadcasts (first occurrence).
		Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A

Attributes/Values	# / Definition
BF2 BROADCAST FREQUENCY (2)	The frequency in kilohertz (kHz) on which a station broadcasts (second occurrence). Increment: 0.1 Kilohertz (KHz) Limits: N/A Variance: N/A
Default:0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
BFC BUILDING FUNCTION CATEGORY	Type or primary purpose of the building.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - FABRICATION STRUCTURE - - - - - - - 0	
002 - GOVERNMENT BUILDING - - - - - - - - 0	Any government building not covered under another BFC.
003 - CAPITOL BUILDING - - - - - - - - - - 0	
004 - CASTLE - - - - - - - - - - - - - - - 0	A large building or group of buildings fortified with thick walls, battlements, and often a moat.
005 - GOVERNMENT ADMINISTRATION BUILDING 0	
006 - HOSPITAL - - - - - - - - - - - - - - 0	
007 - HOUSE OF WORSHIP - - - - - - - - - - 0	
008 - MILITARY ADMINISTRATION / OPERATIONS BUILDING - - - - - - 0	
009 - MUSEUM - - - - - - - - - - - - - - - 0	
010 - OBSERVATORY - - - - - - - - - - - - 0	A building that houses optical and/or electronic astronomical observation equipment.
011 - PALACE - - - - - - - - - - - - - - - 0	A large, magnificent residential house or building, often the residence of a king, emperor, bishop, etc.
012 - POLICE STATION - - - - - - - - - - 0	
013 - PRISON - - - - - - - - - - - - - - - 0	
014 - RANGER STATION - - - - - - - - - - - 0	
015 - SCHOOL - - - - - - - - - - - - - - - 0	
016 - HOUSE - - - - - - - - - - - - - - - - 0	A single family dwelling.
017 - MULTI UNIT DWELLING - - - - - - - - 0	
018 - CEMETERY BUILDING - - - - - - - - - 0	
019 - FARM BUILDING - - - - - - - - - - - 0	Any building on a farm not adequately described by another BFC.
020 - GREENHOUSE - - - - - - - - - - - - - 0	
021 - GARAGE - - - - - - - - - - - - - - - 0	
022 - WATERMILL /GRISTMILL - - - - - - - - 0	
023 - WIND TUNNEL - - - - - - - - - - - - 0	
024 - WAREHOUSE - - - - - - - - - - - - - 0	A large primary storage building, usually of substantial construction.
025 - ROUNDHOUSE - - - - - - - - - - - - 0	A circular or semicircular building, with a turntable in the center, used for storing and repairing locomotives.
026 - R /R STORAGE /REPAIR FACILITY - - 0	Excludes roundhouses.
027 - PASSENGER TERMINAL - - - - - - - - 0	
028 - ADMINISTRATION BUILDING - - - - - 0	
029 - AIRCRAFT MAINTENANCE SHOP - - - - 0	
030 - HANGAR - - - - - - - - - - - - - - - 0	A building designed to contain one or more aircraft.
031 - CUSTOM HOUSE - - - - - - - - - - - - 0	
032 - HARBOR MASTER'S OFFICE - - - - - - 0	
033 - HEALTH OFFICE - - - - - - - - - - - 0	
035 - POST OFFICE - - - - - - - - - - - - 0	
036 - BARRACKS /DORMITORY - - - - - - - - 0	A building providing common living quarters for soldiers, students, workers, etc.
037 - FIRE STATION - - - - - - - - - - - - 0	
038 - SHED - - - - - - - - - - - - - - - - 0	A small secondary storage structure, generally of light construction.
039 - OTHER - - - - - - - - - - - - - - - - 0	
040 - KENNEL - - - - - - - - - - - - - - - 0	
041 - GUARD SHACK - - - - - - - - - - - - 0	
042 - GUARD TOWER - - - - - - - - - - - - 0	
050 - LIGHTHOUSE - - - - - - - - - - - - - 0	
051 - HOTEL - - - - - - - - - - - - - - - - 0	
052 - DIPLOMATIC BUILDING - - - - - - - - 0	Any building associated with an embassy or ambassador.
053 - COURT HOUSE - - - - - - - - - - - - 0	
054 - NEWS PAPER PLANT - - - - - - - - - - 0	
055 - BANK - - - - - - - - - - - - - - - - 0	
056 - LAB /RESEARCH FACILITY - - - - - - 0	
057 - TELEPHONE EXCHANGE (MAIN) - - - - 0	
058 - AUDITORIUM - - - - - - - - - - - - - 0	
059 - OPERA HOUSE - - - - - - - - - - - - 0	
060 - PROCESSING /TREATMENT - - - - - - - 0	
061 - POWER GENERATION - - - - - - - - - - 0	
062 - PUMPHOUSE - - - - - - - - - - - - - 0	Located at Pumping Station (1L180)
063 - MOBILE HOME - - - - - - - - - - - - 0	
064 - WEATHER STATION - - - - - - - - - - 0	
065 - DEPENDENTS HOUSING /BIVOUAC AREA - 0	
066 - COMMUNICATIONS BUILDING - - - - - - 0	
BMC BOTTOM MATERIAL COMPOSITION	Predominant material composition of the bottom of a body of water.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - CLAY AND SILT - - - - - - - - - - - - 0	
002 - SILTY SANDS - - - - - - - - - - - - - 0	
003 - SAND AND GRAVEL - - - - - - - - - - - 0	
004 - GRAVEL AND COBBLE - - - - - - - - - - 0	
005 - ROCKS AND BOULDERS - - - - - - - - - 0	
006 - BEDROCK - - - - - - - - - - - - - - - 0	
007 - PAVED - - - - - - - - - - - - - - - - 0	
008 - PEAT - - - - - - - - - - - - - - - - - 0	

Attributes/Values — # / Definition

BNF BUILDING NUMBER OF FLOORS ..... The number of floors the feature has.

Increment: 1 Floor
Limits: N/A
Variance: N/A

Default:21 = >20
Range: 1...20

BOT BRIDGE OPENING TYPE ..... The type of structure or mechanism by which a portion of a bridge is moved to allow passage of a vessel.

000 - UNKNOWN	0	
004 - DRAW /BASCULE	0	A movable span that is opened by raising one end.
010 - SWING	0	A movable span that is opened by turning it in a horizontal plane on a pivot system usually located at or near its center.
011 - LIFT	0	A movable span that is opened by raising it vertically at both ends while maintaining it in a horizontal position.
012 - RETRACTILE	0	Span that is opened by rolling it directly back from the opening along a horizontal track.
013 - NOT APPLICABLE /FIXED	0	Superstructure designed to stay in one position.
015 - OTHER	0	

BR1 BEACON RANGE (1) ..... The maximum distance at which the associated RA1 can be used accurately.

Increment: 1 Nautical Mile
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

BR2 BEACON RANGE (2) ..... The maximum distance at which the associated RA2 can be used accurately.

Increment: 1 Nautical Mile
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

BRG BEARING OF OBJECT ..... The bearing of an object from an observer (on any point along the line) towards the object or feature, expressed in degrees and tenths (i.e. 003.0 degrees).

000 - ANY BEARING	0

BRR BEARING AND RECIPROCAL CATEGORY ..... True course of a vessel in .1 degree increments, when proceeding along a track or route, followed by its reciprocal bearing (ie. 053.1-232.9).

000 - ANY SET OF BEARINGS	0

BRS BEARING FROM SEAWARD ..... True course of a vessel, in .1 degree increments, when proceeding along a track or route.

000 - ANY SET OF BEARINGS	0

BSC BRIDGE AND /OR SUPERSTRUCTURE CATEGORY ..... Structural design characteristics.

000 - UNKNOWN	0
002 - CANTILEVER	0
007 - TOWER SUSPENSION	0
008 - TRUSS	0
009 - SUSPENSION	0
013 - ARCH SUSPENSION	0
014 - MOVEABLE SPAN	0
015 - OTHER	0

BSM BRIDGE SPAN MOBILITY ..... Identifies bridge spans that move in some manner to allow passage underneath the bridge span.

000 - UNKNOWN	0
001 - MOVABLE SPAN	0
002 - FIXED SPAN	0

BST BOUNDARY STATUS TYPE ..... Identifies the status of a boundary.

001 - DEFINITE	0	A boundary that exists, and is neither indefinite or in dispute.
002 - INDEFINITE	0	A boundary that is undetermined or vague and cannot be plotted precisely; Although not actually disputed, no approved or specific boundary exists.
003 - IN DISPUTE	0	A boundary in which involved countries are actively seeking an alteration in the status quo of the boundary.
004 - NO DEFINED BOUNDARY	0	A division between two countries where no defined boundary exists.

Attributes/Values — # / Definition

BUD BRUSH /UNDERGROWTH DENSITY CODE ..... A qualitative descriptor indicating the density of undergrowth or brush /scrub.

000 - UNKNOWN - - - - - - - - - - - - - - -	0	
001 - OPEN - - - - - - - - - - - - - - - - -	0	<= 5% coverage of ground surface
002 - SPARSE - - - - - - - - - - - - - - - -	0	> 5% and <= 15% coverage of ground surface
003 - MEDIUM - - - - - - - - - - - - - - - -	0	> 15% and <= 50% coverage of ground surface
004 - DENSE - - - - - - - - - - - - - - - - -	0	> 50% coverage of ground surface
005 - NOT APPLICABLE - - - - - - - - - - - -	0	

BVC BRIDGE/VIADUCT CATEGORY ..... Divides elevated transportation structures into various subcategories, of which the two main ones are regular bridges and viaducts.

000 - UNKNOWN - - - - - - - - - - - - - - -	0	
001 - BRIDGE - - - - - - - - - - - - - - - -		A single or multiple span elevated transportation structure which carries a railroad, road, or canal over drainage, another transportation feature, or (usually) small depression or obstacle.
002 - VIADUCT - - - - - - - - - - - - - - -	0	Bridge-like structure consisting of a long series of usually short evenly spaced spans, which lift a transportation route over water, congested urban areas, wet ground, or other obstacles or areas unsuitable for ground placement.

C01 FUEL CONTAINERS CAPACITY EACH ..... The capacity of each fuel tank containing the designated fuel.

Increment: 1 U.S. Gallon
Limits: N/A
Variance: N/A

Default:0=Unknown 1=Various
Range: 2...9999998

C80 RATE OF CURRENT ..... Rate of current flow at high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C81 RATE OF CURRENT (1) ..... Rate of current flow 1 hour after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C82 RATE OF CURRENT (2) ..... Rate of current flow 2 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C83 RATE OF CURRENT (3) ..... Rate of current flow 3 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C84 RATE OF CURRENT (4) ..... Rate of current flow 4 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C85 RATE OF CURRENT (5) ..... Rate of current flow 5 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C86 RATE OF CURRENT (6) ..... Rate of current flow 6 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C87 RATE OF CURRENT (7) ..... Rate of current flow 7 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown

Attributes/Values — # / Definition

C88 RATE OF CURRENT (8) ..... Rate of current flow 8 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C89 RATE OF CURRENT (9) ..... Rate of current flow 9 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C90 RATE OF CURRENT (10) ..... Rate of current flow 10 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

C91 RATE OF CURRENT (11) ..... Rate of current flow 11 hours after high water.

Increment: 0.1 Knot
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 0.1...99.9

CCF COLOR CODE OF FEATURE ..... The color of the feature.

000 -	UNKNOWN	0
001 -	RED (R)	0
002 -	RED & WHITE (RW)	0
003 -	RED & GREEN (RG)	0
004 -	RED & BLACK (RB)	0
005 -	RED-GREEN-RED (RGR)	0
006 -	GREEN (G)	0
007 -	GREEN & WHITE (GW)	0
008 -	GREEN & RED (GR)	0
009 -	GREEN & BLACK (GB)	0
010 -	GREEN-RED-GREEN (GRG)	0
011 -	GREEN-YELLOW-BLACK (GYB)	0
012 -	YELLOW (Y)	0
013 -	YELLOW & BLACK (YB)	0
014 -	YELLOW-BLACK-YELLOW (YBY)	0
015 -	YELLOW & RED (YR)	0
016 -	YELLOW & GREEN (YG)	0
017 -	YELLOW-RED-WHITE (YRW)	0
018 -	BLACK (B)	0
019 -	BLACK & YELLOW (BY)	0
020 -	BLACK-YELLOW-BLACK (BYB)	0
021 -	BLACK-RED-BLACK (BRB)	0
022 -	BLACK & WHITE (BW)	0
023 -	BLACK & RED (BR)	0
024 -	BLACK & GREEN (BG)	0
025 -	WHITE (W)	0
026 -	WHITE & RED (WR)	0
027 -	WHITE & ORANGE (W OR)	0
028 -	WHITE & GREEN (WG)	0
029 -	WHITE & BLACK (WB)	0
030 -	WHITE & YELLOW (WY)	0
031 -	WHITE-RED-GREEN (WRG)	0
032 -	WHITE-GREEN-WHITE (WGW)	0
033 -	ORANGE (OR)	0
034 -	BLUE (BU)	0
035 -	GRAY (GY)	0
036 -	VIOLET (VI)	0
037 -	BROWN (BR)	0

CCR CANOPY CLOSURE RANGE ..... The portion of the ground surface covered by tree crowns, indicated by a range in percent.

000 -	UNKNOWN	0
001 -	> 0 AND <= 25	0
002 -	> 25 AND <= 50	0
003 -	> 50 AND <= 75	0
004 -	> 75 AND <= 100	0
005 -	NOT APPLICABLE	0

CDA COVERED DRAINAGE ATTRIBUTE ..... Condition where an artificial or improved natural drainage way is completely covered over and connects open drainage ways at each end.

001 -	UNCOVERED	0
002 -	COVERED	0
003 -	NOT APPLICABLE	0

Attributes/Values	# / Definition
CFD CULTURAL FEATURE DENSITY	The measure of the concentration of buildings and other cultural features within the delineation of this feature.
Increment: 1 Percent Limits: N/A Variance: N/A	
Range: 0...100	
CHA LIGHT CHARACTERISTIC CATEGORY	The sequence, grouping, and distinctive character of a light.
021 - LIGHTED - - - - - - - - - - - - - 0	
023 - UNLIGHTED - - - - - - - - - - - - 0	
CLB CLOSURE TYPE	Classified (CLB).
000 - CLASSIFIED (1) - - - - - - - - - - 0	
001 - CLASSIFIED (2) - - - - - - - - - - 0	
CLF CAMOUFLAGE	Classified (CLF).
000 - CLASSIFIED (1) - - - - - - - - - - 0	
001 - CLASSIFIED (2) - - - - - - - - - - 0	
CM1 CCM MAP UNIT CODE (1)	A code (1) which relates a CCM map unit to a movement limiting terrain factors description.
001 - 1 - - - - - - - - - - - - - - - - 0	
002 - 2 - - - - - - - - - - - - - - - - 0	
003 - 3 - - - - - - - - - - - - - - - - 0	
004 - 4 - - - - - - - - - - - - - - - - 0	
005 - 5 - - - - - - - - - - - - - - - - 0	
006 - 6 - - - - - - - - - - - - - - - - 0	
007 - 7 - - - - - - - - - - - - - - - - 0	
CM2 CCM MAP UNIT CODE (2)	A code (2) which relates a CCM map unit to a movement limiting terrain factors description.
001 - 1 - - - - - - - - - - - - - - - - 0	
002 - 2 - - - - - - - - - - - - - - - - 0	
003 - 3 - - - - - - - - - - - - - - - - 0	
004 - 4 - - - - - - - - - - - - - - - - 0	
005 - 5 - - - - - - - - - - - - - - - - 0	
COC CONSPICUOUS OBJECT CATEGORY	A conspicuous object is plainly visible from seaward (harbors, approach channels, or offshore), under varying conditions of light, and is easily identifiable, because of its size, shape, or height.
001 - CONSPICUOUS - - - - - - - - - - - 0	
002 - NOT CONSPICUOUS - - - - - - - - - 0	
COD CERTAINTY OF DELINEATION	Indicates knowledge of the feature's limits or information.
001 - LIMITS AND INFO KNOWN - - - - - - 0	
002 - LIMITS AND INFO UNKNOWN - - - - - 0	
COE CERTAINTY OF EXISTENCE	Indicates knowledge of the feature's existance.
001 - DEFINITE - - - - - - - - - - - - - 0	
002 - DOUBTFUL - - - - - - - - - - - - - 0	
003 - REPORTED - - - - - - - - - - - - - 0	
COL CHARACTER OF LIGHT	Any identifier comprised of the class, number and color(s) of flashes or occultations, of a light or lights at one geographic position [i.e. Q(6)+L Fl , VQ G, L Fl (3+2)WR].
000 - ANY DESCRIPTION - - - - - - - - - 0	
CPA CONTROL POINT ATTRIBUTE	Type of control point.
001 - BENCH MARK - - - - - - - - - - - - 0	
002 - HORIZONTAL - - - - - - - - - - - - 0	
003 - HORIZONTAL WITH BENCH MARK - - - - 0	
004 - ASTRONOMIC POSITION - - - - - - - - 0	
005 - VERTICAL - - - - - - - - - - - - - 0	Bench mark with elevation established by vertical angle methods.
CRA CRANE ATTRIBUTE	Type of crane.
002 - GANTRY/BRIDGE CRANE - - - - - - - 0	A crane mounted on a traversing platform with supporting towers on each end. The towers may be wheeled or on tracks.
003 - ROTATING CRANE - - - - - - - - - - 0	
004 - TOWER CRANE - - - - - - - - - - - 0	Rotating crane located on a tower-like structure.
005 - NOT APPLICABLE - - - - - - - - - - 0	
CRN CURRENT RATE MINIMUM	Minimum speed of current.
Increment: 0.1 Knot Limits: N/A Variance: N/A	
Default:0=Unknown Range: 0.1...98.9	

Attributes/Values		# / Definition
CRV	DEPTH CURVE OR CONTOUR VALUE	A specified value assigned to a particular depth curve or contour.
000 -	ANY VALUE - - - - - - - - - - - -	0
CRX	CURRENT RATE MAXIMUM	Maximum speed of current.
		Increment: 0.1 Knot Limits: N/A Variance: N/A
	Default:0=Unknown Range: 0.1...98.9	
CSD	CRANE SUPPORT DISTANCE	The longest distance between the supports for a gantry/bridge crane (CRA002).
		Increment: 1 Meter Limits: Measured along the cross beam. Variance: N/A
	Range: > 0...No Upper Limit	
CSI	CATEGORY/SUBCATEGORY INDEX	General category of the feature which is described by the name. Category is based on FACS category/subcategory index.
000 -	UNKNOWN - - - - - - - - - - - - -	0
001 -	1A-1C-1D - - - - - - - - - - - -	0 Culture /Industry
002 -	1H-1K-1L - - - - - - - - - - - -	0 Culture /Recreational /Miscellaneous
003 -	1N-1P-1Q - - - - - - - - - - - -	0 Culture /Transportation
004 -	1T - - - - - - - - - - - - - - -	0 Culture /Communication - Transmission
005 -	1U - - - - - - - - - - - - - - -	0 Culture /Airports
006 -	2A - - - - - - - - - - - - - - -	0 Hydrography /Coastal Hydro
007 -	2B - - - - - - - - - - - - - - -	0 Hydrography /Ports and Harbors
008 -	2H - - - - - - - - - - - - - - -	0 Hydrography /Inland Water
009 -	4B - - - - - - - - - - - - - - -	0 Physiography /Landforms
010 -	5 - - - - - - - - - - - - - - - -	0 Vegetation
011 -	6 - - - - - - - - - - - - - - - -	0 Demarcation
012 -	9 - - - - - - - - - - - - - - - -	0 Miscellaneous
013 -	GENERAL NOTES - - - - - - - - - -	0
014 -	CLIMATIC NOTES - - - - - - - - - -	0
015 -	HISTORIC NOTES - - - - - - - - - -	0
016 -	TERRAIN CHARACTERISTICS - - - - - -	0
017 -	NOT APPLICABLE - - - - - - - - - -	0
CSM	SECONDARY MATERIAL CHARACTERISTICS	Characteristics of secondary material composition of feature.
000 -	UNKNOWN - - - - - - - - - - - - -	0
009 -	BROKEN - - - - - - - - - - - - -	0
010 -	CALCAREOUS - - - - - - - - - - -	0
015 -	COARSE - - - - - - - - - - - - -	0
021 -	DECAYED - - - - - - - - - - - - -	0
025 -	FINE - - - - - - - - - - - - - -	0 Minute particles.
026 -	FLINTY - - - - - - - - - - - - -	0
032 -	GLACIAL - - - - - - - - - - - - -	0
036 -	GRITTY - - - - - - - - - - - - -	0
038 -	GROUND - - - - - - - - - - - - -	0 Used before shells.
039 -	HARD - - - - - - - - - - - - - -	0
042 -	LARGE - - - - - - - - - - - - -	0
066 -	ROCKY - - - - - - - - - - - - -	0
067 -	ROTTEN - - - - - - - - - - - - -	0
078 -	SMALL - - - - - - - - - - - - -	0
079 -	SOFT - - - - - - - - - - - - - -	0
080 -	SPECKLED - - - - - - - - - - - -	0
084 -	STICKY - - - - - - - - - - - - -	0
085 -	STIFF - - - - - - - - - - - - -	0
087 -	STREAKY - - - - - - - - - - - -	0
089 -	TENACIOUS - - - - - - - - - - -	0
091 -	UNEVEN - - - - - - - - - - - - -	0
093 -	VARIED - - - - - - - - - - - - -	0
094 -	VOLCANIC - - - - - - - - - - - -	0
100 -	MEDIUM - - - - - - - - - - - - -	0
CTB	CONSTRUCTION TYPE	Classified (CTB).
000 -	CLASSIFIED (1) - - - - - - - - - -	0
001 -	CLASSIFIED (2) - - - - - - - - - -	0
CTC	CULVERT TYPE CATEGORY	Divides culverts into various subcategories, of which the two main ones are regular culverts and box culverts, either of which can be earth back-filled..
000 -	UNKNOWN - - - - - - - - - - - - -	0
001 -	REGULAR, EARTH BACK-FILLED - - - -	0 One or more conduits that are covered with compacted soil, which is the load-bearing material.
002 -	BOX, EARTH BACK-FILLED - - - - - -	0 One or more conduits with a square or rectangular cross section, which are covered with compacted soil.
003 -	BOX, LOAD BEARING - - - - - - - -	0 One or more conduits with a square or rectangular cross section. Normally constructed of concrete or reinforced metal. The top member serves as the transport support surface or base and is the primary load-bearing member.
CTL	CUMULATIVE TRACK LENGTH	Total cumulative length of track contained within confines of the feature, exclusive of the branch or main trunk lines running into and/or out of the feature.

Attributes/Values	# / Definition
CTL CUMULATIVE TRACK LENGTH (Cont.)	Increment: 1 Meter Limits: N/A Variance: N/A Default:0=Unknown Range: > 0...No Upper Limit
CUR CURRENT TYPE CATEGORY	The horizontal movement of a body of water.
001 - EBB - - - - - - - - - - - - - - - - 0	Tidal current moving away from land or down a tidal stream.
002 - FLOOD - - - - - - - - - - - - - - - 0	Tidal current moving toward land or up a tidal stream.
003 - GENERAL - - - - - - - - - - - - - - 0	
004 - RIVER FLOW - - - - - - - - - - - - - 0	
005 - OCEAN - - - - - - - - - - - - - - - 0	Non-Tidal
D80 DIRECTION OF CURRENT	Direction of current flow at high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D81 DIRECTION OF CURRENT (1)	Direction of current flow 1 hour after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D82 DIRECTION OF CURRENT (2)	Direction of current flow 2 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D83 DIRECTION OF CURRENT (3)	Direction of current flow 3 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D84 DIRECTION OF CURRENT (4)	Direction of current flow 4 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D85 DIRECTION OF CURRENT (5)	Direction of current flow 5 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D86 DIRECTION OF CURRENT (6)	Direction of current flow 6 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D87 DIRECTION OF CURRENT (7)	Direction of current flow 7 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D88 DIRECTION OF CURRENT (8)	Direction of current flow 8 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359
D89 DIRECTION OF CURRENT (9)	Direction of current flow 9 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A Default:360=Unknown Range: 0...359

Attributes/Values	# / Definition
D90 DIRECTION OF CURRENT (10)	Direction of current flow 10 hours after high water.
D90 DIRECTION OF CURRENT (10) (Cont.)	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
Default:360=Unknown Range: 0...359	
D91 DIRECTION OF CURRENT (11)	Direction of current flow 11 hours after high water.
	Increment: 1 Degree Limits: Measured clockwise from True North. Variance: N/A
Default:360=Unknown Range: 0...359	
DAN DESCRIPTION OF AIDS TO NAVIGATION	Textual description of aids to navigation marking a feature, eg. "Marked by buoys".
000 - ANY DESCRIPTION - - - - - - - - - 0	
DAT DATE CATEGORY	Date (Year) of report or activity.
	Increment: 1 Year Limits: Date (year) of report or activity. Variance: N/A
Range: 1970...2100	
DBR DEPTH TO BEDROCK	Depth of bedrock below ground surface.
	Increment: 0.1 Meter Limits: Measured from ground surface to top of bedrock. Variance: N/A
Range: 0...No Upper Limit	
DBS DIPLOMATIC BUILDING STRUCTURE	Type of diplomatic building at this location.
000 - UNKNOWN - - - - - - - - - - - - - 0 001 - LEGATION - - - - - - - - - - - - - 0 002 - MISSION - - - - - - - - - - - - - 0 003 - CHANCERY - - - - - - - - - - - - - 0 004 - AMBASSADOR RESIDENCE - - - - - - - 0 005 - OTHER - - - - - - - - - - - - - 0 006 - EMBASSY - - - - - - - - - - - - - 0 007 - CONSULATE - - - - - - - - - - - - 0 008 - NOT APPLICABLE - - - - - - - - - - 0	
DBU DENSITY MEASURE OF BRUSH /UNDERGROWTH	Ground coverage of brush and/or undergrowth within area of feature.
	Increment: 1 Percent Limits: N/A Variance: N/A
Range: 0...100	
DCR DRAFT CORRECTION INDICATOR	Indicates if draft correction has been applied.
001 - YES - - - - - - - - - - - - - - - 0 002 - NO - - - - - - - - - - - - - - - - 0	
DCT DOOR CONSTRUCTION TYPE	Classified (DCT).
000 - CLASSIFIED (1) - - - - - - - - - - 0 001 - CLASSIFIED (2) - - - - - - - - - - 0	
DDA DESCRIPTION OF DANGER	Textual description of the dangerous condition, object or activity associated with the feature.
000 - ANY DESCRIPTION - - - - - - - - - 0	
DDM DRAFT DIMENSION	The amount of correction applied to the source.
	Increment: 0.1 Meter Limits: N/A Variance: N/A
Range: 0...2000000000.0	
DEP DEPTH BELOW SURFACE LEVEL	Distance measured from the highest point at surface level to the lowest point of the feature.
	Increment: 0.5 Meter Limits: Interior of feature measured from top to bottom. Variance: N/A
Range: 0...No Upper Limit	
DF1 DIRECTION OF TRAFFIC - 1	Direction of traffic, first occurrence.
	Increment: 1 Degree Limits: N/A Variance: N/A
Default:360=Not Applicable Range: 0...359	

Attributes/Values — # / Definition

DF2 DIRECTION OF TRAFFIC - 2 ..... Direction of traffic, second occurrence.

DF2 DIRECTION OF TRAFFIC - 2 (Cont.)

Increment: 1 Degree
Limits: N/A
Variance: N/A

Default:360=Not Applicable
Range: 0...359

DF3 DIRECTION OF TRAFFIC - 3 ..... Direction of traffic, third occurrence.

Increment: 1 Degree
Limits: N/A
Variance: N/A

Default:360=Not Applicable
Range: 0...359

DF4 DIRECTION OF TRAFFIC - 4 ..... Direction of traffic, fourth occurrence.

Increment: 1 Degree
Limits: N/A
Variance: N/A

Default:360=Not Applicable
Range: 0...359

DFS DISTANCE FROM SHORELINE ..... Distance inland of a feature from the nearest Coastal Shoreline (2A010), or shoreline of an inland body of water (Canal 2H020, Lake/Pond 2H080, or River/Stream 2H140) that is required for port access (RPA=001).

Increment: 1 Meter
Limits: Measured along the shortest straight line distance between the shoreline and the closest point of the inland feature.
Variance: 9998 = All values greater than 9997.

Default:0=Offshore or on shoreline,
9998=All values > 9997 or N/A.
Range: 1...9997

DFT DAM FACE TYPE ..... Type of face of a dam.

001 - VERTICAL - - - - - - - - - - - - - 0 — Dam face is either vertical (90 degrees) or more when measured from a plane parallel to the top is rotated 90 degrees to point across the axis of the feature.

002 - SLOPED - - - - - - - - - - - - - - 0 — Dam face is less than 90 degrees when measured from a plane parallel to the top that has been rotated 90 degrees to face up and downstream across the axis of the feature.

DGC DROP GATE CATEGORY ..... Distinguishes between two drop gate types.

000 - UNKNOWN - - - - - - - - - - - - - 0
001 - OVERHEAD DROP - - - - - - - - - - - 0
002 - SIDE DROP - - - - - - - - - - - - - 0

DIR DIRECTIVITY ..... The side or sides of a feature which produces the greatest reflectivity potential. Linear Areal Features will be shown by the estimated linear representation of the feature.

001 - RIGHT UNI - - - - - - - - - - - - - 0 — Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).

002 - BI - - - - - - - - - - - - - - - - - 0 — Visually significant or reflective from two sides only.
003 - OMNI - - - - - - - - - - - - - - - - 0 — Visually significant or reflective from all sides.
004 - LEFT UNI - - - - - - - - - - - - - - 0 — Visually significant or reflective from one side only, as determined by starting the linear component from the westmost node (southmost if line ends at same longitude).

DMR DENSITY MEASURE (% OF ROOF COVER) ..... Roof cover within the overall mass of the entire feature.

Increment: 1 Percent
Limits: N/A
Variance: N/A

Range: 0...100

DMS DENSITY MEASURE (STRUCTURE COUNT) ..... The number of structures (of any type) is counted. DMS = The number of structures contained by an area feature divided by the area size (in square kilometers) of the area feature. If the entire areal outline is composed of one structure, DMS = 1.

Increment: 1 Structure
Limits: N/A
Variance: N/A

Range: 0...No Upper Limit

DMT DENSITY MEASURE (% TREE /CANOPY COVER) ..... Canopy cover within the overall mass of the entire feature.

Increment: 1 Percent
Limits: N/A
Variance: N/A

Range: 0...100

Attributes/Values	# / Definition
DOF DIRECTION OF FLOW	Azimuth of movement or direction of the flow.
DOF DIRECTION OF FLOW (Cont.)	Increment: 1 Degree Limits: Measured from true North (0 degrees) clockwise to the direction of the flow. Variance: N/A
Default:360=Not Applicable Range: 0...359	
DOI DATE OF INFORMATION	Date of source used where: 1-2 Month, 3-4 Day, 5-6 Year.
000 - CHAR: 6 A/N - - - - - - - - - - - 0	
DRI DATA REFERENCE IDENTIFIER	A unique identifier referencing specific map /chart data to a textual description.
000 - ANY IDENTIFIER - - - - - - - - - - 1	CHAR: 4 A/N
DRN DEPTH RECORDER NAME	Name/Type of device used to record depths.
000 - CHAR: 80 A/N - - - - - - - - - - 0	
DRP DESCRIPTION OF REFERENCE POINT	Description of the feature(s) which form a Leading Line or Clearing Line.
000 - ANY DESCRIPTION - - - - - - - - - 0	
DRU DRAFT UNITS	Units of measure for draft correction.
000 - NOT APPLICABLE - - - - - - - - - - 0 001 - METERS - - - - - - - - - - - - - - 0 002 - FEET - - - - - - - - - - - - - - - 0 003 - FATHOMS - - - - - - - - - - - - 0	
DRW DENSITY OF WOODY VEGETATION RANGE	Range indicating percentage of total ground surface covered by Trees (5C030) and Scrub Brush (5B020) within delineated area of feature.
001 - > 0 AND <= 5 - - - - - - - - - - - 0 002 - > 5 AND <= 15 - - - - - - - - - - 0 003 - > 15 - - - - - - - - - - - - - - 0 004 - NOT APPLICABLE - - - - - - - - - 0	
DTC DANGER /OBSTRUCTION CATEGORY	Type of obstruction, danger, or restriction.
012 - CABLE AREA - - - - - - - - - - - - 0 013 - PIPELINE AREA - - - - - - - - - - 0 014 - FISHING PROHIBITED - - - - - - - - 0 015 - CABLES AND PIPELINES - - - - - - - 0 016 - OTHER - - - - - - - - - - - - - - 0 017 - ANCHORING PROHIBITED - - - - - - - 0 018 - IMO AREA TO BE AVOIDED - - - - - - 0 019 - SAFETY ZONE - - - - - - - - - - - 0 020 - OUTFALL AREA - - - - - - - - - - - 0 021 - INTAKE AREA - - - - - - - - - - - 0 022 - SEWER AREA - - - - - - - - - - - - 0	
DUA DESIGNATED URBAN AREA ATTRIBUTE	Indicates whether a selected urban area is recorded on the "Designated Urban Area List".
001 - URBAN AREA NAME IS NOT LISTED - - 0 002 - URBAN AREA NAME IS LISTED - - - - 0	
DVA DISTANCE VALUE ATTRIBUTE	Distance recorded as a measurement between selected points.
Range: 0...No Upper Limit	Increment: 1 Unit (UNI) Limits: N/A Variance: N/A
DVL DENSE BANK VEGETATION LEFT	Indicates whether dense vegetation (thick brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the left bank.
001 - 1 - - - - - - - - - - - - - - - - 0	>50%
002 - 2 - - - - - - - - - - - - - - - - 0	<=50%
DVR DENSE BANK VEGETATION RIGHT	Indicates whether dense vegetation (thich brush or closely spaced trees which prohibit vehicles from entering or exiting a drainage channel) is present along more than 50 percent of the right bank.
001 - 1 - - - - - - - - - - - - - - - - 0	>50%
002 - 2 - - - - - - - - - - - - - - - - 0	<=50%
DW1 DEPTH OF WATER (1)	Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (First Range).

Attributes/Values — # / Definition

DW1 DEPTH OF WATER (1) (Cont.)

000 -	UNKNOWN	0
001 -	<= 0.8	0
002 -	> 0.8 AND <= 1.6	0
003 -	> 1.6 AND <= 2.4	0
004 -	> 2.4	0
005 -	NOT APPLICABLE	0

DW2 DEPTH OF WATER (2) ..... Predominant water depth within delineation of feature, determined in meters at the greatest depth below mean (normal) water level along a cross section of the feature (Second Range).

000 -	UNKNOWN	0
001 -	<= 1.6	0
002 -	> 1.6 AND <= 2.4	0
003 -	> 2.4	0
004 -	NOT APPLICABLE	0

E01 NUMBER OF FUEL FILL STANDS ..... The number of fill stands used for the fuel to transfer fuel from storage tanks into trucks.

Increment: 1 Fill Stand
Limits: N/A
Variance: N/A

Range: 0...998

EBT EDUCATIONAL BUILDING TYPE ..... Type of school complex with which this building is associated..

000 -	UNKNOWN	0
001 -	ACADEMY	0
002 -	COLLEGE	0
003 -	EDUCATIONAL CENTER	0
004 -	LYCEUM	0
005 -	UNIVERSITY	0
006 -	SEMINARY	0
007 -	OTHER	0
008 -	NOT APPLICABLE	0

EDS SURVEY END DATE ..... Julian date the survey was completed.

000 -	CHAR: 6 A/N	0

EFI EMBANKMENT /FILL IDENTIFIER ..... Identifier of embankment feature describing the embankment type.

001 -	FILL	0	An embankment at constant or level grade constructed to provide a passageway for a line of communication such as a road, railroad, canal, etc.
002 -	LEVEE /DIKE	0	An embankment constructed to prevent flooding or to control or confine the flow of liquids.
003 -	CAUSEWAY	0	An embankment constructed to carry a road or railroad across water or wetlands.
004 -	OTHER	0	

EHI EXTRACTED RUNWAY HIGH IDENT ..... Runway High Identifier.

000 -	CHAR: 4 A/N	0

ELA ELEVATION ACCURACY ..... Indicates whether the ZVL value is accurately known.

001 -	ACCURATE	0
002 -	APPROXIMATE	0

ELI EXTRACTED RUNWAY LOW IDENT ..... Runway Low Identifier.

000 -	CHAR: 4 A/N	0

EPT APRON /HARDSTAND ENTRY CLEARANCE ..... The apron /hardstand access maximum width considering taxiway width plus clearance from such hazards as trees, revetments, buildings, etc.

Increment: 0.1 Meter
Limits: N/A
Variance: N/A

Range: 0...399.9

EOC EMBEDDED OBSTRUCTION CODE ..... Predominant background surface surrounding a feature within a distance of 457 meters.

000 -	0	0	Open = Largest percentage of area is not covered by trees or man-made structures.
001 -	1	0	Trees = Largest percentage of area is covered by trees of any height.
002 -	2	0	Structures = Largest percentage of area is covered by man-made structures.

EOL ELEVATION OF LIGHT ..... The elevation of a light.

Increment: 1 Meter
Limits: Measured from mean sea level to the focal plane of the light.
Variance: N/A

Default:0=Unknown, 998=Not Applicable

Attributes/Values		#	/ Definition
EPA	EXPOSED PORTION ATTRIBUTE		That portion of the vessel found above the surface.
001 -	MAST	0	
002 -	FUNNEL	0	
003 -	SUPERSTRUCTURE	0	
004 -	HULL	0	
005 -	MAST AND FUNNEL	0	
006 -	NONE EXPOSED	0	
EXS	EXISTENCE CATEGORY		The state or condition of the feature.
000 -	UNKNOWN	0	
001 -	DEFINITE	0	
002 -	DOUBTFUL	0	
002 -	DOUBTFUL	2	Indicated as 'ED' on source.
002 -	DOUBTFUL	3	Direction is variable or information uncertain
003 -	REPORTED	0	
005 -	UNDER CONSTRUCTION	0	
006 -	ABANDONED	0	
006 -	ABANDONED	1	Tracks in place, but not in service.
006 -	ABANDONED	2	Feature with usable runway(s) or landing area(s) but which is abandoned or closed on a permanent, indefinite, or temporary basis.
006 -	ABANDONED	3	For lighthouses (EFC 050), no longer used to support a navigational light.
007 -	DESTROYED	0	
007 -	DESTROYED	1	>= 75% destroyed.
008 -	DISMANTLED	0	Tracks removed.
009 -	NOT USABLE	0	Feature is visible from the air but is not usable for the landing and take-off of normal fixed-wing aircraft due to runways or landing areas being overgrown or deteriorated.
009 -	NOT USABLE	1	
009 -	NOT USABLE	2	Feature is visible from the air, but is not usable for the landing or take-off of normal fixed wing aircraft due to runways or landing areas being overgrown or deteriorated.
010 -	PROPOSED	0	
011 -	TEMPORARY	1	Contingency Operational Use.
022 -	ONE WAY	0	
023 -	TWO WAY	0	
027 -	CLOSED	0	
028 -	OPERATIONAL	0	
031 -	ISOLATED	0	
032 -	NAVIGABLE	0	
032 -	NAVIGABLE	1	Bridge span under which navigation by water craft/ vessels is intended.
033 -	CONTINUOUS OPERATION	0	
034 -	INTERMITTENT OPERATION	0	
035 -	OTHER	0	
036 -	COMMISSIONED AND OPERATIONAL	0	Commissioned by host country and facility is operational.
037 -	COMMISSIONED AND ON TEST	0	Commissioned by host country and facility is on test.
038 -	COMMISSIONED AND OUT OF SERVICE	0	Commissioned by host country and facility is out of service.
039 -	NOT COMMISSIONED AND OPERATIONAL	0	Not commissioned by host country and facility is operational.
040 -	NOT COMMISSIONED AND ON TEST	0	Not commissioned by host country and facility is on test.
041 -	NOT COMMISSIONED AND OUT OF SERVICE	0	Not commissioned by host country and facility is out of service.
042 -	NOT ISOLATED	0	
043 -	PARTIALLY DESTROYED	0	< 75% destruction.
FAN	FEATURE AGGREGATE NUMBER		Indicates the number of individual features available for the aggregate feature.
001 -	2 OR MORE FEATURES AVAILABLE TO AGGREGATE	0	
002 -	3 OR MORE FEATURES AVAILABLE TO AGGREGATE	0	
FAT	FEATURE AGGREGATE TYPE		FACS Code of the feature to be aggregated.
001 -	1A010 MINE	0	
002 -	1A030 QUARRY	0	
003 -	1A040 RIG/SUPERSTRUCTURE	0	
004 -	1B000 DISPOSAL SITE/WASTE PILE	0	
005 -	1B010 WRECKING YARD/SCRAP YARD	0	
006 -	1C010 BLAST FURNACE	0	
007 -	1C020 CATALYTIC CONVERTER	0	
008 -	1D020 SOLAR PANEL	0	
009 -	1D030 SUBSTATION/TRANSFORMER YARD	0	
010 -	1F010 CHIMNEY SMOKESTACK	0	
011 -	1F020 CONVEYOR	0	
012 -	1F030 COOLING TOWER	0	
013 -	1F040 CRANE	0	
014 -	1F050 DREDGE, POWERSHOVEL, DRAGLINE	0	
015 -	1F060 ENGINE TEST CELL	0	
016 -	1F070 FLARE PIPE	0	
017 -	1F080 HOPPER	0	
018 -	1H050 PORT	0	
019 -	1J050 WINDMILL/WINDMOTER	0	
020 -	1K020 AMUSEMENT PARK ATTRACTION	0	

Attributes/Values — # / Definition

FAT FEATURE AGGREGATE TYPE (Cont.)

021 -	1E080 DRIVE-IN THEATER SCREEN	0
022 -	1K110 GRANDSTAND	0
023 -	1K150 SKI JUMP	0
024 -	1K160 STADIUM	0
025 -	1L015 BUILDING	0
026 -	1L050 DISPLAY SIGN	0
027 -	1L070 FENCE	0
028 -	1L073 FLAGSTAFF/FLAGPOLE	0
029 -	1L110 LIGHT STANDARD	0
030 -	1L115 MISCELLANEOUS VERTICAL OBSTRUCTION	0
031 -	1L130 MONUMENT	0
032 -	1L160 PIPELINE/PIPE	0
033 -	1L200 RUINS	0
034 -	1L220 STEEPLE	0
035 -	1L240 TOWER (NON-COMMUNICATION)	0
036 -	1L260 WALL	0
037 -	1M030 GRAIN ELEVATOR	0
038 -	1M040 MINERAL PILE	0
039 -	1M050 SILO	0
040 -	1M060 STORAGE BUNKER/STORAGE MOUND	0
041 -	1M070 TANK	0
042 -	1M080 WATER TOWER	0
043 -	1Q020 AERIAL CABLEWAY PYLON/SKI LIFT PYLON	0
044 -	1Q040 BRIDGE/OVERPASS/VIADUCT	0
045 -	1Q060 CONTROL TOWER	0
046 -	1Q110 MOORING MAST	0
047 -	1T040 POWER TRANSMISSION PYLON	0
048 -	1T070 TELEPHONE PYLON/TELEGRAPH PYLON	0
049 -	1T080 TOWER (COMMUNICATION)	0
050 -	1U040 AIRCRAFT FACILITY BEACON	0
051 -	1U050 APPROACH LIGHTING	0
052 -	2D110 PLATFORM	0
054 -	2H010 AQUEDUCT	0
055 -	2H060 FLUME	0
057 -	2I030 LOCK	0
058 -	2I050 WATER INTAKE TOWER	0
059 -	2J060 ICE PEAK, NUNATAK	0
060 -	4B090 EMBANKMENT/FILL	0
061 -	4E160 ROCK FORMATION	0
062 -	5A040 ORCHARD/PLANTATION	0
063 -	5C030 TREES	0
064 -	1M020 GRAIN BIN	0

FBL BOUNDARY LIGHTS ..... The availability of boundary lights at the aircraft facility.

000 -	UNKNOWN	0
001 -	AVAILABLE	0
002 -	NOT AVAILABLE	0

PCL FERRY CROSSING LENGTH ..... Length of crossing between shore points.

Increment: 1 Meter
Limits: Measured along traveled path.
Variance: N/A

Default:0=Unknown
Range: > 0...No Upper Limit

PCM FEATURE CONSTRUCTION MATERIAL CODE ..... A code indicating the construction materials comprising the feature.

000 -	UNKNOWN	0	
001 -	C	0	Concrete
002 -	L	0	Concrete and Steel
003 -	D	0	Concrete and Wood
004 -	M	0	Masonry
005 -	N	0	Masonry and Steel
006 -	R	0	Masonry and Wood
007 -	S	0	Steel
008 -	T	0	Steel and Wood
009 -	W	0	Wood

PDM FUEL DISPENSING METHOD ..... The primary method of dispensing fuel at the air facility.

000 -	UNKNOWN	0
001 -	AVAILABLE	0
003 -	TANK TRUCKS	0
004 -	HYDRANTS	0
005 -	MANUAL	0

PDR FUEL DISPENSING REMARKS ..... Remarks on fuel dispensing, to include: number of laterals, number of pits per lateral, number and capacity of pumps per lateral.

000 -	CHAR: 1080 A/N	0

FEC FINAL EVALUATION CODE ..... Final code taking accuracy attributes into account.

000 -	0 - UNKNOWN	0

Attributes/Values | # / Definition

FEC FINAL EVALUATION CODE (Cont.)

001 - 1 - BEST - - - - - - - - - - - - - - 0
002 - 2 - FAIR - - - - - - - - - - - - - - 0
003 - 3 - POOR - - - - - - - - - - - - - - 0
004 - 4 - WORST - - - - - - - - - - - - - 0

FER FERRY TYPE ..... Indicates whether or not ferry travels along cables.

000 - UNKNOWN - - - - - - - - - - - - - - 0
001 - FERRY WITH CABLES - - - - - - - - - 0
002 - FERRY WITHOUT CABLES - - - - - - - - 0

FHH TRUE FEATURE HEADING (HIGH END) ..... The eastern half of the feature centerline alignment measured clockwise from true north.

Increment: 0.1 Degree
Limits: N/A
Variance: N/A

Range: 180.1...360.0

FHL TRUE FEATURE HEADING (LOW END) ..... The western half of the feature centerline alignment measured clockwise from true north.

Increment: 0.1 Degree
Limits: N/A
Variance: N/A

Range: 0.1...180.0

FPT FACILITY PRIORITY TYPE ..... Indicates the priority status of the facility.

000 - UNKNOWN - - - - - - - - - - - - - - 0
001 - MAJOR - - - - - - - - - - - - - - - 0 Associated Runway (1U160) is >= 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
002 - MINOR (HARD) - - - - - - - - - - - 0 Associated Runway (1U160) is < 910 m LEN, also having a hard surface of MCP 002, 005, 018, 048, 083, 104, 105, 108, 109, 110, 111, 114, 115.
003 - MINOR (SOFT) - - - - - - - - - - - 0 Associated Runway (1U160) has a MCP of 014, 019, 023, 034, 035, 069, 103, 106, 107, 112.

FRE NAVAID FREQUENCY ..... Frequency assigned by the controlling authority with the unit of measurement as listed in UNI.

000 - CHAR: 8 A - - - - - - - - - - - - 0
001 - NOT APPLICABLE - - - - - - - - - - 0

FRK FACILITY ACCESS AND ROADS REMARKS ..... Remarks on: Road classification (Primary, Secondary, or Trail); destination; bridges [illegible]

[redacted]

000 - CHAR: 1080 A/N - - - - - - - - - - 0

FSD FEATURE SEPARATION DISTANCE ..... Indicates whether at least two individual features within a potential aggregate feature are < 114 m apart, center to center.

001 - < 114 METERS APART - - - - - - - - 0
002 - >= 114 M APART - - - - - - - - - - 0

FSR FUEL STORAGE REMARKS ..... Pertinent remarks pertaining to fuel storage, to include the basis for estimating a change in the types or quantities of fuel storage.

000 - CHAR: 1080 A/N - - - - - - - - - - 0

FTC FARMING TYPE CATEGORY ..... Type of field pattern.

Attributes/Values	# / Definition
GD4 DEFENSE SAM SITE	Classified.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - SAM - - - - - - - - - - - - - - - - 0	
002 - AAA - - - - - - - - - - - - - - - - 0	
GDR GARBAGE DISPOSAL REMARKS	Remarks on garbage disposal, to include: capacity, treated /untreated, and method of disposal.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
GEH GEOMORPHIC HEIGHT	Height of protrusion above average surface level as determined by a corresponding digital elevation matrix.
	Increment: 1 Meter Limits: N/A Variance: N/A
Range: > 0...No Upper Limit	
GFT GEOTHERMAL FEATURE TYPE	Type of feature present.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - FUMAROLE - - - - - - - - - - - - - - 0	A hole or vent in the earth's surface from which fumes or vapors are emitted.
002 - GEYSER - - - - - - - - - - - - - - - 0	A type of spring that intermittently erupts jets of hot water and steam.
003 - HOT SPRING - - - - - - - - - - - - - 0	A thermal spring whose waters are hotter than 98 degrees Fahrenheit.
GHE GREATEST HORIZONTAL EXTENT	The horizontal distance between the two points of a feature which are the most distant from each other.
	Increment: 1 Meter Limits: Measured along a straight line. Variance: Guy wires excluded.
Range: > 0...No Upper Limit	
GLI GREATER THAN/LESS THAN CONTOUR INTERVAL	Indicates whether the predominant feature height or depth (PFH or PFD) is greater than (or equal to), or less than the contour interval.
001 - GREATER THAN OR EQUAL TO CONTOUR INTERVAL - - - - - - - - - - - - - 0	
002 - LESS THAN CONTOUR INTERVAL - - - - - 0	
003 - NOT APPLICABLE - - - - - - - - - - 0	
GLM BANK GRADIENT LEFT (MEASURED)	Slope of the left bank (facing downstream).
	Increment: 1 Percent Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
Range: > 0...No Upper Limit	
GPD GEOMORPHIC DEPTH	Depth of the feature below average surface level as determined by a corresponding digital elevation matrix. If not obtainable, then average depth shall be used.
	Increment: 1 Meter Limits: N/A Variance: N/A
Range: > 0...No Upper Limit	
GRM BANK GRADIENT RIGHT (MEASURED)	Slope of the right bank (facing downstream).
	Increment: 1 Percent Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
Range: > 0...No Upper Limit	
GT1 TERRAIN AND DRAINAGE REMARKS	Installation details on dimensions, acreage, soil characteristics, grading, drainage (overall, runway, taxiway, and parking areas), maintenance, overall expansion possibilities, and approach terrain characteristics.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
GTP GEOMORPHIC TYPE	Type /description of the geomorphic feature.
001 - HILL TOP OR PEAK - - - - - - - - - 0	
002 - DEPRESSION BOTTOM - - - - - - - - - 0	
003 - ESCARPMENT /CLIFF TOP - - - - - - - 0	
004 - ESCARPMENT /CLIFF BOTTOM - - - - - 0	
005 - FAULT /FAULT-LINE SCARP TOP - - - 0	
006 - FAULT /FAULT-LINE SCARP BOTTOM - - 0	
007 - CENTERLINE DRAIN - - - - - - - - - 0	
008 - RIDGE LINE - - - - - - - - - - - - 0	
009 - VALLEY LINE - - - - - - - - - - - - 0	
010 - SHARP OR ABRUPT SLOPE CHANGE - - - 0	
GUG GUYED OR UNGUYED CATEGORY	Presence of support wires.
000 - UNKNOWN - - - - - - - - - - - - - - 0	

Attributes/Values — # / Definition

GUG GUYED OR UNGUYED CATEGORY (Cont.)

001 - GUYED - - - - - - - - - - - - - - - - 0 Wires present
002 - UNGUYED - - - - - - - - - - - - - - - 0 Wires not present

GW1 GAP WIDTH RANGE (1) ..... Predominant horizontal gap width range (1) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.

000 - UNKNOWN - - - - - - - - - - - - - - - 0
001 - <3 - - - - - - - - - - - - - - - - - - 0
002 - >3 AND <=18 - - - - - - - - - - - - - 0
003 - >18 AND <= 25 - - - - - - - - - - - - 0
004 - >25 AND <=50 - - - - - - - - - - - - - 0
005 - >50 AND <=75 - - - - - - - - - - - - - 0
006 - >75 AND <=100 - - - - - - - - - - - - 0
007 - >100 AND <=142 - - - - - - - - - - - - 0
008 - >142 - - - - - - - - - - - - - - - - - 0

GW2 GAP WIDTH RANGE (2) ..... Predominant horizontal gap width range (2) in meters, measured between the top of the first accessible break in slope above mean water level on each bank.

000 - UNKNOWN - - - - - - - - - - - - - - - 0
001 - >18 AND <= 142 - - - - - - - - - - - - 0
002 - > 142 AND <= 1000 - - - - - - - - - - 0
003 - > 1000 - - - - - - - - - - - - - - - - 0

GWM GAP WIDTH (MEASURED) ..... Horizontal gap width at a specific site.

Increment: 1 Meter
Limits: Measured between the top of the first accessible break in slope above mean water level on each bank.
Variance: N/A
Range: > 0...No Upper Limit

HAC HEIGHTING ACCURACY ..... The 90% linear error for the height attribute HGT (PHT, HOE, or OHB, if present).

Increment: 1 Meter
Limits: N/A
Variance: N/A
Range: > 0...No Upper Limit

HAF HORIZONTAL ACCURACY FLAG ..... Horizontal accuracy of RLT and RLN (reference point, latitude and longitude).

001 - <= 200 FEET - - - - - - - - - - - - - 0
002 - > 200 FEET - - - - - - - - - - - - - - 0

HAS HEIGHT ABOVE SURROUNDING FEATURES ..... The height differential between the HGT of the feature and the HGT of the tallest feature within a 300 m radius.

Increment: 1 Meter
Limits: N/A
Variance: N/A
Range: > 0...No Upper Limit

HCA HORIZONTAL CLEARANCE ATTRIBUTE ..... The distance available to pass a load that extends laterally beyond the wheels of a vehicle.

Increment: 0.1 Meter
Limits: Horizontally measured perpendicular to centerline between inner sides of vertical superstructure supports, trusses, guard rails, parapets, etc., at a point 30 centimeters above the transport surface.
Variance: Measure minimum clearance.
Default:0=Unknown, 998=Restricted, 999=Unlimited
Range: > 0...997.9

HDG HANGAR DOOR HEIGHT ..... The measurement of the vertical extent of the hangar door.

Increment: 0.1 Meter
Limits: 0 = Not Applicable
Variance: N/A
Default:0=Not Applicable
Range: 0.1...999.9

HDH HYDROGRAPHIC DRYING HEIGHT ..... The height of the feature, which tidal waters cover and uncover, referenced to a specified vertical datum.

Increment: 0.1 Meter
Limits: From the specified vertical datum to the exposed portion of the foreshore.
Variance: N/A
Default:0=Unknown, 100.1=Not Applicable
Range: 0.1...100.0

HDI HYDROGRAPHIC DEPTH /HEIGHT INFORMATION ..... Information about the accuracy or availability of depth or uncovering height of a feature.

009 - DEPTH KNOWN - - - - - - - - - - - - 0
010 - DEPTH KNOWN BY WIRE DRAG - - - - - - 0

Attributes/Values | # / Definition

HDI HYDROGRAPHIC DEPTH /HEIGHT INFORMATION (Cont.)

011 - DEPTH UNKNOWN BUT SAFE TO DEPTH SHOWN - - - - - - - - - - - - - 0
012 - DEPTH UNKNOWN - - - - - - - - - - - 0
013 - UNCOVERING HEIGHT KNOWN - - - - - - 0
014 - UNCOVERING HEIGHT UNKNOWN - - - - - 0
015 - NOT APPLICABLE - - - - - - - - - - 0

HDP HYDROGRAPHIC DEPTH ..... The depth of the feature below water referenced to a specified vertical datum.

Increment: 0.1 Meter
Limits: From the specified vertical datum to the lowest level known to be clear of obstacles to navigation.
Variance: N/A
Default:0=Unknown, 12000.1=Not Applicable
Range: 0.1...12000.0

HDW HANGAR DOOR WIDTH ..... The measurement of the horizontal extent of the hangar door.

Increment: 0.1 Meter
Limits: 0 = Not Applicable
Variance: N/A
Default:0=Not Applicable
Range: 0.1...999.9

HFC HYDROGRAPHIC FORM CATEGORY ..... Form or configuration of the feature.

001 - CHANNELIZED STREAM - - - - - - - - 0 Natural stream channel has been altered by man-made construction or artificial channelization.
002 - DISAPPEARING - - - - - - - - - - - 0 Watercourse flows underground.
008 - NORMAL CHANNEL - - - - - - - - - - 0
014 - BRAIDED - - - - - - - - - - - - - 0
016 - DISSIPATING - - - - - - - - - - - 0 Watercourse disperses or diffuses into the ground.
016 - DISSIPATING - - - - - - - - - - - 1
018 - OTHER - - - - - - - - - - - - - - 0
019 - GORGE - - - - - - - - - - - - - - 0
020 - ANASTOMOSING - - - - - - - - - - - 0 Section of a perennial stream containing numerous interlacing channels with stabilized islands.
021 - WASH/WADI/ARROYO - - - - - - - - - 0 A steep sided, dry, flat floored, watercourse (gulch or gully) of an ephemeral/intermittent stream, mostly found in arid areas. Subject to flash flooding after brief but heavy rainfall over steep upland areas.

HGP HEIGHT WITH GREATER PRECISION ..... The vertical distance from the ground or water level to the top of the feature.

Increment: 0.1 Meter
Limits: Measured from the lowest point on the downslope or downstream side (at ground or water level) to the lowest point along the crest of the dam.
Variance: Documented or field checked data is recorded as given.
Range: > 0...No Upper Limit

HGS HEIGHT OF SPILLWAY ..... Vertical distance above ground or water level on the upstream side of the dam.

Increment: 1 Meter
Limits: Measured to the top surface of the spillway, or dam, if no spillway exists.
Variance: N/A
Range: > 0...No Upper Limit

HGT HEIGHT ABOVE SURFACE LEVEL ..... The vertical distance from the ground or water level to the top of the feature.

Increment: 1 Meter
Limits: From lock to water or ground level.
Variance: Take highest section of lock and lowest water or ground level
Range: 0...No Upper Limit

HL1 BANK HEIGHT LEFT (1) ..... Predominant height range (1) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.

000 - UNKNOWN - - - - - - - - - - - - - 0
001 - <= .5 - - - - - - - - - - - - - - 0
002 - > .5 AND <= 1.0 - - - - - - - - - - 0
003 - > 1.0 AND <= 5.0 - - - - - - - - - 0
004 - > 5.0 - - - - - - - - - - - - - - 0

HL2 BANK HEIGHT LEFT (2) ..... Predominant height range (2) of the left bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.

000 - UNKNOWN - - - - - - - - - - - - - 0
001 - <= 1.0 - - - - - - - - - - - - - - 0
002 - > 1.0 AND <= 5.0 - - - - - - - - - 0

Attributes/Values	# / Definition
HL2 BANK HEIGHT LEFT (2) (Cont.)	
003 - > 5.0 - - - - - - - - - - - - - - - 0	
HLC BANK HEIGHT LEFT CODE	Predominant height range of the left bank (facing downstream) measured from mean water level to the top of the first accessible break in slope above the mean water level.
	Increment: 1 Meter Limits: N/A Variance: N/A
Range: 0...No Upper Limit	
HLM BANK HEIGHT LEFT (MEASURED)	Height of the left bank (facing downstream).
	Increment: 0.5 Meter Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level. Variance: N/A
Range: > 0...No Upper Limit	
HLT HYDROGRAPHIC LIGHT TYPE	The type of light used for marine navigation.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - SECTORED LIGHT - - - - - - - - - - 0	
002 - OTHER - - - - - - - - - - - - - - - 0	
003 - MOIRE EFFECT LIGHT - - - - - - - - 0	
004 - STRIP LIGHT - - - - - - - - - - - 0	A light usually along a pier /wharf whose source has a linear form, generally horizontal, and whose main purpose is to aid navigation or docking within harbors.
006 - LIGHTED BEACON - - - - - - - - - - 0	A navigation aid structure intended for use as a visual beacon but also exibiting a light.
HOC HYDROGRAPHIC ORIGIN CATEGORY	Origin of the feature.
001 - CONTROLLED - - - - - - - - - - - - 0	A lake or pond in which the water level is maintained by the presence of a dam.
004 - MAN-MADE - - - - - - - - - - - - - 0	
004 - MAN-MADE - - - - - - - - - - - - - 1	Salt evaporators.
004 - MAN-MADE - - - - - - - - - - - - - 2	Limit not determined by configuration of bottom.
005 - NATURAL - - - - - - - - - - - - - 0	Limit determined by physical configuration of the bottom.
005 - NATURAL - - - - - - - - - - - - - 1	Salt flats or natural beds.
005 - NATURAL - - - - - - - - - - - - - 2	
HOE HEIGHT OF EXCAVATION	A height value assigned as taken from the HGT value of the tallest 1F040 or 1F050 feature located within this feature's delineated area.
	Increment: 1 Meter Limits: N/A Variance: N/A
Range: 0...No Upper Limit	
HOC HYPSOGRAPHY PORTRAYAL CATEGORY	Type of line shown.
001 - INDEX - - - - - - - - - - - - - - 0	A line shown at specified intervals indicating a multiple of the contour interval.
002 - INTERMEDIATE - - - - - - - - - - - 0	A line between index contours, at the specified contour interval.
003 - SUPPLEMENTARY (1/2) - - - - - - - 0	A line at 1/2 the basic contour interval to augment portrayal of features not shown by prescribed contour interval.
004 - FORM LINES - - - - - - - - - - - - 0	Lines indicating general shapes of landforms, but representing no actual elevations.
005 - DEPRESSION INDEX - - - - - - - - - 0	A line enclosing areas of lower elevation than surrounding terrain (multiple of contour interval).
006 - DEPRESSION INTERMEDIATE - - - - - 0	A line enclosing areas of lower elevation than surrounding terrain (at contour interval).
007 - INDEX APPROXIMATE - - - - - - - - 0	A line not meeting accurate contour requirements (multiple of contour interval).
008 - MOUND INDEX - - - - - - - - - - - 0	A line indicating a raised area within a depression, at specified multiple of contour interval.
009 - MOUND INTERMEDIATE - - - - - - - - 0	A line indicating a raised area within a depression, at specified contour interval.
012 - INTERMEDIATE APPROXIMATE - - - - - 0	A line not meeting accurate contour requirements (between index contours).
013 - SUPPLEMENTARY APPROXIMATE - - - - 0	A line not meeting accurate contour requirements (less than contour interval).
014 - SUPPLEMENTARY (1/4) - - - - - - - 0	A line at 1/4 the contour interval to augment portrayal of features not shown by prescribed contour interval.
015 - NOT APPLICABLE - - - - - - - - - - 0	
016 - DEPRESSION SUPPLEMENTARY (1/2) - - 0	
017 - DEPRESSION SUPPLEMENTARY (1/4) - 0	
HR1 BANK HEIGHT RIGHT (1)	Predominant height range (1) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - <= .5 - - - - - - - - - - - - - - 0	
002 - > .5 AND <= 1.0 - - - - - - - - - 0	

Attributes/Values — # / Definition

HR1 BANK HEIGHT RIGHT (1) (Cont.)

003 - > 1.0 AND <= 5.0 - - - - - - - - - - 0
004 - > 5.0 - - - - - - - - - - - - - - - - 0

HR2 BANK HEIGHT RIGHT (2) ..... Predominant height range (2) of the right bank (facing downstream) in meters, measured from mean water level to the top of the first accessible break in slope above the mean water level.

000 - UNKNOWN - - - - - - - - - - - - - - 0
001 - <= 1.0 - - - - - - - - - - - - - - - 0
002 - > 1.0 AND <= 5.0 - - - - - - - - - - 0
003 - > 5.0 - - - - - - - - - - - - - - - - 0

HRC BANK HEIGHT RIGHT CODE ..... Predominant height range of the right bank (facing downstream) measured from mean water level to the top of the first accessible break in slope above the mean water level.

Increment: 1 Meter
Limits: N/A
Variance: N/A

Range: 0...No Upper Limit

HRK BUILDING REMARKS ..... Any remarks on building, to include: security, services, facilities, etc.

000 - CHAR: 1080 A/N - - - - - - - - - - 0

HRM BANK HEIGHT RIGHT (MEASURED) ..... Height of the right bank (facing downstream).

Increment: 0.5 Meter
Limits: Measured from the mean water level to the top of the first accessible break in slope above mean water level.
Variance: N/A

Range: > 0...No Upper Limit

HS1 CURRENT INFORMATION (1) ..... Month of current appearance.

000 - UNKNOWN /NA - - - - - - - - - - - - 0
001 - JAN - - - - - - - - - - - - - - - - - 0
002 - FEB - - - - - - - - - - - - - - - - - 0
003 - MAR - - - - - - - - - - - - - - - - - 0
004 - APR - - - - - - - - - - - - - - - - - 0
005 - MAY - - - - - - - - - - - - - - - - - 0
006 - JUN - - - - - - - - - - - - - - - - - 0
007 - JUL - - - - - - - - - - - - - - - - - 0
008 - AUG - - - - - - - - - - - - - - - - - 0
009 - SEP - - - - - - - - - - - - - - - - - 0
010 - OCT - - - - - - - - - - - - - - - - - 0
011 - NOV - - - - - - - - - - - - - - - - - 0
012 - DEC - - - - - - - - - - - - - - - - - 0

HS2 CURRENT INFORMATION (2) ..... Month of current disappearance, if different from HS1.

000 - UNKNOWN /NA - - - - - - - - - - - - 0
001 - JAN - - - - - - - - - - - - - - - - - 0
002 - FEB - - - - - - - - - - - - - - - - - 0
003 - MAR - - - - - - - - - - - - - - - - - 0
004 - APR - - - - - - - - - - - - - - - - - 0
005 - MAY - - - - - - - - - - - - - - - - - 0
006 - JUN - - - - - - - - - - - - - - - - - 0
007 - JUL - - - - - - - - - - - - - - - - - 0
008 - AUG - - - - - - - - - - - - - - - - - 0
009 - SEP - - - - - - - - - - - - - - - - - 0
010 - OCT - - - - - - - - - - - - - - - - - 0
011 - NOV - - - - - - - - - - - - - - - - - 0
012 - DEC - - - - - - - - - - - - - - - - - 0

HSA HYDROGRAPHIC SEASONAL ATTRIBUTE ..... Restriction due to climate.

000 - UNKNOWN - - - - - - - - - - - - - - 0
001 - PERENNIALLY OPEN, NOT SUBJECT TO ICE - - - - - - - - - - - - - - - - 0
002 - SUBJECT TO ICE - - - - - - - - - - - 0
003 - PERMANENT ICE - - - - - - - - - - - - 0
004 - SEASONAL LIMIT - JAN. - - - - - - - - 0
005 - SEASONAL LIMIT - FEB. - - - - - - - - 0
006 - SEASONAL LIMIT - MAR. - - - - - - - - 0
007 - SEASONAL LIMIT - APR. - - - - - - - - 0
008 - SEASONAL LIMIT - MAY - - - - - - - - 0
009 - SEASONAL LIMIT - JUN. - - - - - - - - 0
010 - SEASONAL LIMIT - JUL. - - - - - - - - 0
011 - SEASONAL LIMIT - AUG. - - - - - - - - 0
012 - SEASONAL LIMIT - SEP. - - - - - - - - 0
013 - SEASONAL LIMIT - OCT. - - - - - - - - 0
014 - SEASONAL LIMIT - NOV. - - - - - - - - 0
015 - SEASONAL LIMIT - DEC. - - - - - - - - 0

HSB HEIGHT ABOVE SEA BOTTOM ..... Vertical distance from the bottom of the sea to the top of the feature..

Increment: 0.1 Meter
Limits: From the sea bottom to the highest point of the feature
Variance: N/A

Range: > 0...No Upper Limit

Attributes/Values	# / Definition
HTP *HANGAR TYPE CATEGORY*	Hangar design.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - M - - - - - - - - - - - - - - - - - 0	Multi-bay
002 - O - - - - - - - - - - - - - - - - - 0	Open end
003 - N - - - - - - - - - - - - - - - - - 0	Nose in
004 - G - - - - - - - - - - - - - - - - - 0	Underground
005 - S - - - - - - - - - - - - - - - - - 0	Single bay
006 - D - - - - - - - - - - - - - - - - - 0	Double bay
007 - T - - - - - - - - - - - - - - - - - 0	T-Shaped
008 - NOT APPLICABLE - - - - - - - - - - - 0	
HWT HOUSE OF WORSHIP TYPE	Type of house of worship used.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
002 - CATHEDRAL - - - - - - - - - - - - - 0	The church housing the bishop's seat.
003 - CHAPEL - - - - - - - - - - - - - - - 0	A place of christian worship, smaller and subordinate to a church.
004 - CHURCH - - - - - - - - - - - - - - - 0	
005 - MARABOUT - - - - - - - - - - - - - - 0	Tomb or shrine of Muslim holy man.
006 - MINARET - - - - - - - - - - - - - - - 0	A tall slender free standing structure associated with a mosque.
007 - MONASTERY, CONVENT - - - - - - - - - 0	A dwelling of a religious community.
009 - MOSQUE - - - - - - - - - - - - - - - 0	A muslim temple or place of worship.
011 - PAGODA - - - - - - - - - - - - - - - 0	A temple in the form of a pyramidal tower of several stories.
014 - SHRINE - - - - - - - - - - - - - - - 0	A place or structure esteemed for its religious value and not covered by another EFC.
015 - TABERNACLE - - - - - - - - - - - - - 0	
016 - TEMPLE - - - - - - - - - - - - - - - 0	
020 - SYNAGOGUE - - - - - - - - - - - - - - 0	
021 - STUPA - - - - - - - - - - - - - - - - 0	A dome shaped Buddist shrine.
022 - NOT APPLICABLE - - - - - - - - - - - 0	
HYC *HYDROGRAPHIC CATEGORY*	Identifies the annual water content of the feature.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
002 - NOT APPLICABLE - - - - - - - - - - - 0	
003 - DRY - - - - - - - - - - - - - - - - - 0	Normally retains no water but some may be present during rain or flood.
003 - DRY - - - - - - - - - - - - - - - - - 1	
003 - DRY - - - - - - - - - - - - - - - - - 2	Contains no water
006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - - - 0	Contains flowing or standing water less than six months per year.
006 - NON-PERENNIAL /INTERMITTENT / FLUCTUATING - - - - - - - - - - - 1	Contains water less than six months per year.
008 - PERENNIAL /PERMANENT - - - - - - - - 0	Contains flowing or standing water six months or more per year.
008 - PERENNIAL /PERMANENT - - - - - - - - 1	
008 - PERENNIAL /PERMANENT - - - - - - - - 2	Contains water six months or more per year.
009 - OTHER - - - - - - - - - - - - - - - - 0	
IAS IMO APPROVAL STATUS	Status of International Maritime Organization approval.
001 - APPROVED - - - - - - - - - - - - - - 0	
002 - NOT APPROVED - - - - - - - - - - - - 0	
IB1 INTERIM BASIC ENCYCLOPEDIA NUMBER (1)	The interim WAC-BE Number of the airport as identified by another agency (1) .
000 - CHAR: 10 A/N - - - - - - - - - - - - 0	
IB2 INTERIM BASIC ENCYCLOPEDIA NUMBER (2)	The interim WAC-BE Number of the airport as identified by another agency (2) .
000 - CHAR: 10 A/N - - - - - - - - - - - - 0	
IB3 INTERIM BASIC ENCYCLOPEDIA NUMBER (3)	The interim WAC-BE Number of the airport as identified by another agency (3) .
000 - CHAR: 10 A/N - - - - - - - - - - - - 0	
IDN IDENTIFICATION NUMBER	A unique number relating specific interior map /chart features to border information.
000 - ANY NUMBER - - - - - - - - - - - - - 0	
IWO INLAND WATER OBSTRUCTION	An indicator that a feature in an inland water body is an obstruction to vessel movement
001 - OBSTRUCTION - - - - - - - - - - - - 0	
002 - NOT AN OBSTRUCTION - - - - - - - - - 0	
KVA KILOVOLT ATTRIBUTE	Maximum voltage available on the line, as reported in kilovolts.
000 - CHAR: 4 N - - - - - - - - - - - - - - 0	
L51 SECTOR LABEL (1)	An identifier comprised of the color only, or the character and color(s) of a light within a sector. (First occurrence) *NOTE - the first sector (S51) is that sector whose initial sector bearing is first encountered when going clockwise from true north.

Attributes/Values	# / Definition
L51 SECTOR LABEL (1) (Cont.)	
000 - ANY IDENTIFIER - - - - - - - - - -	0
L52 SECTOR LABEL (2)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Second occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L53 SECTOR LABEL (3)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Third occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L54 SECTOR LABEL (4)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fourth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L55 SECTOR LABEL (5)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fifth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L56 SECTOR LABEL (6)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Sixth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L57 SECTOR LABEL (7)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Seventh occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L58 SECTOR LABEL (8)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eighth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L59 SECTOR LABEL (9)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Ninth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L60 SECTOR LABEL (10)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Tenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L61 SECTOR LABEL (11)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eleventh occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L62 SECTOR LABEL (12)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twelfth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L63 SECTOR LABEL (13)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Thirteenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L64 SECTOR LABEL (14)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fourteenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L65 SECTOR LABEL (15)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Fifteenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L66 SECTOR LABEL (16)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Sixteenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L67 SECTOR LABEL (17)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Seventeenth occurrence).
000 - ANY IDENTIFIER - - - - - - - - - -	0
L68 SECTOR LABEL (18)	An identifier comprised of the color only, or the character and color(s) of a light within a sector (Eighteenth occurrence).

Attributes/Values — # / Definition

L68 SECTOR LABEL (18) (Cont.)

000 - ANY IDENTIFIER - - - - - - - - - - 0

L69 SECTOR LABEL (19) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Nineteenth occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L70 SECTOR LABEL (20) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twentieth occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L71 SECTOR LABEL (21) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-first occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L72 SECTOR LABEL (22) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-second occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L73 SECTOR LABEL (23) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-third occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L74 SECTOR LABEL (24) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-fourth occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

L75 SECTOR LABEL (25) ..... An identifier comprised of the color only, or the character and color(s) of a light within a sector (Twenty-fifth occurrence).

000 - ANY IDENTIFIER - - - - - - - - - - 0

LAB LABEL OF THE FEATURE ..... Label applied to the feature.

000 - ANY LABEL - - - - - - - - - - - - 0

LAF LINE ASSOCIATED FEATURES ..... The type and /or number of features associated with a Leading or Clearing Line.

001 - ONE OBJECT (OTHER THAN A DIRECTIONAL LIGHT) - - - - - - - 0
002 - DIRECTIONAL LIGHT - - - - - - - - - 0
003 - TWO OR MORE LIGHTS - - - - - - - - 0
004 - TWO OR MORE BEACONS - - - - - - - - 0
005 - TWO OR MORE OBJECTS (OTHER THAN TWO LIGHTS OR TWO BEACONS) - - - 0
006 - MEASURED DISTANCE MARKERS - - - - 0
007 - DIRECTIONAL RADIOBEACON - - - - - 0
008 - MOIRE EFFECT LIGHT - - - - - - - - 0
009 - LEADING RACON - - - - - - - - - - 0

LC1 LOAD CLASS TYPE 1 ..... Military load classification (weight bearing capacity) for one-way traffic of wheeled vehicles.

Increment: 1 Short Ton
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

LC2 LOAD CLASS TYPE 2 ..... Military load classification (weight bearing capacity) for two-way traffic of wheeled vehicles.

Increment: 1 Short Ton
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

LC3 LOAD CLASS TYPE 3 ..... Military load classification (weight bearing capacity) for one-way traffic of tracked vehicles.

Increment: 1 Short Ton
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

LC4 LOAD CLASS TYPE 4 ..... Military load classification (weight bearing capacity) for two-way traffic of tracked vehicles.

Attributes/Values | # / Definition

LC4 LOAD CLASS TYPE 4 (Cont.)

Increment: 1 Short Ton
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

LEN LENGTH /DIAMETER ..... A measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Increment: 1 Meter
Limits: Accumulative measurement along the centerline of the feature.
Variance: N/A

Range: 0...No Upper Limit

LET LENGTH OF TRACK ..... A measurement of the distance along the tracks on which the crane set is mounted.

Increment: 1 Meter
Limits: Accumulative measurement along the centerline of the feature.
Variance: 0 indicates no tracks present.

Range: > 0...No Upper Limit

LFA LIGHT FUNCTION ATTRIBUTE ..... Type of light or lighting system used.

001 -	ALSF-I	0	Approach Lighting System with sequenced flashing lights in ILS cat-1 configuration.
002 -	ALSF-II	0	Approach Lighting System with sequenced flashing lights in ILS cat-2 configuration.
003 -	SSALF	0	Simplified short approach light system with sequenced flashing lights.
004 -	SSALR	0	Simplified short approach light system with runway alignment indicator lights.
005 -	RUNWAY END IDENTIFIER LIGHTS (REIL)	0	
006 -	OTHER	0	Other.
007 -	SEQUENCED STROBE	0	
008 -	MALSF	0	Medium intensity approach light system with sequenced flashing lights.
009 -	MALSR	0	Medium intensity approach light system with runway alignment indicator lights.
010 -	ROTATING BEACON	0	A directional light rotating at a constant speed which produces the visual effect of flashes at regular intervals.
011 -	LDIN	0	Sequenced flashing lead-in lights.
012 -	RAIL	0	Runway alignment indicator lights.
013 -	ODALS	0	Omnidirectional approach lighting system.
026 -	STROBE	0	An omnidirectional capacitor discharge device.
032 -	OLS	0	Optical Landing System
033 -	VASI (2 BAR)	0	Visual Approach Slope Indicator, 2 bar type
034 -	VASI (3 BAR)	0	Visual Approach Slope Indicator, 3 bar type
035 -	IDENTIFICATION BEACON	0	An illuminated obelisk of varied height which exhibits a 2 letter morse code group every 12 seconds at a speed equivalent to 6 - 8 words per minute.

LGP LENGTH WITH GREATER PRECISION ..... The measurement of the longer of two linear axes. For a square feature, measure either axis. For a round feature, measure the diameter.

Increment: 0.1 Meter
Limits: Measured against the longest axis of a Best Fitting Rectangle.
Variance: N/A

Range: 0.1...30478.2

LMC LANDMARK CATEGORY ..... A feature which is used for rapid and positive orientation when size, shape, or location make it prominent in relation to surroundings. Easily recognized from line of sight - ground or air.

001 -	LANDMARK	0
002 -	NOT LANDMARK	0

LMK LOCATION AND LANDMARKS REMARKS ..... Descriptive location and landmarks in relation to the installation reference point.

000 -	CHAR: 1080 A/N	0

LOC LOCATION /ORIGIN CATEGORY ..... Placement relative to ground surface, water surface, or shoreline.

001 -	BELOW GROUND SURFACE	0	
002 -	OFF-SHORE	0	Located on platform (2D110).
002 -	OFF-SHORE	1	
003 -	ON GROUND SURFACE	0	
003 -	ON GROUND SURFACE	1	Includes any inland location
004 -	SUSPENDED OR ELEVATED ABOVE GROUND OR WATER SURFACE	0	
005 -	FLOATING	0	
006 -	BELOW WATER SURFACE	0	
007 -	NON-FLOATING	0	

Attributes/Values	# / Definition
LOC LOCATION /ORIGIN CATEGORY (Cont.)	
008 - AT SHORELINE - - - - - - - - - - - - 0	
009 - OTHER - - - - - - - - - - - - - - - 0	
010 - BELOW SEA BOTTOM - - - - - - - - - - 0	Feature is buried deep enough that it is not vulnerable to damage from anchoring.
011 - ON SEA BOTTOM - - - - - - - - - - - 0	Feature is on sea bottom or buried but still vulnerable to damage from anchoring.
012 - SUSPENDED OR ELEVATED ABOVE SEA BOTTOM - - - - - - - - - - - - - - 0	Feature is raised above the sea bottom and is significantly shallower than surrounding charted depths.
LOG LENGTH OF GRADIENT	The length of a segment having a gradient >= 7 percent for a Road (1P030) or >= 3 percent for a Railroad Track (1N010). Increment: 1 Meter Limits: Measured along the centerline of the feature. Variance: The length of a segment having a gradient >= 7 percent for a Road (1P030) or 3 percent for a Railroad Track (1N010). Range: > 0...No Upper Limit
LOR LENGTH OF RANGE	Length of range, established by aids to navigation on the shore. Increment: 1 Unit (UNI) Limits: N/A Variance: N/A Range: 0...No Upper Limit
LRW LENGTH OF RUNWAY	The measurement of the longer of two linear axes of the runway, not to include the overruns. Increment: 0.1 Meter Limits: Measured against the longest axis of a Best Fitting Rectangle. Variance: N/A Range: 0.1...30478.2
LTC LANE/TRACK CHARACTERISTICS	The arrangement of traffic lanes within the feature.
001 - DOUBLE - - - - - - - - - - - - - - 0	Two lanes of traffic including both directions.
002 - DUAL (DIVIDED) - - - - - - - - - - 0	A roadway for travel in both directions separated by a median strip.
003 - MULTIPLE - - - - - - - - - - - - - 0	More than two lanes of traffic including both directions.
004 - SINGLE - - - - - - - - - - - - - - 0	One lane of traffic including both directions.
005 - NOT DIVIDED - - - - - - - - - - - 0	A roadway for travel in both directions but not separated.
LTN LANE/TRACK NUMBER	The number of lanes or tracks of the feature, including both directions. Increment: 1 Lane/Track Limits: N/A Variance: N/A Range: > 0...No Upper Limit
LVR LIGHT VISIBILITY RANGE	The maximum distance at which a light can be seen at night in clear weather. Increment: 1 Nautical Mile Limits: N/A Variance: N/A Default:0=Unknown, 998=Not Applicable Range: 1...997
LWI LIGHTED WIND INDICATOR AVAILABILITY	The availability of a lighted wind indicator at this aircraft facility.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
MAS MAINTENANCE STATUS	Indicates whether the feature is maintained.
001 - MAINTAINED - - - - - - - - - - - - 0	
002 - NOT MAINTAINED - - - - - - - - - - 0	
MCC MATERIAL COMPOSITION CHARACTERISTICS	Characteristics of primary material composition of feature.
000 - UNKNOWN - - - - - - - - - - - - - 0	
009 - BROKEN - - - - - - - - - - - - - - 0	
010 - CALCAREOUS - - - - - - - - - - - - 0	
015 - COARSE - - - - - - - - - - - - - - 0	
021 - DECAYED - - - - - - - - - - - - - - 0	
025 - FINE - - - - - - - - - - - - - - - 0	Minute particles.
026 - FLINTY - - - - - - - - - - - - - - 0	
032 - GLACIAL - - - - - - - - - - - - - - 0	
036 - GRITTY - - - - - - - - - - - - - - 0	
038 - GROUND - - - - - - - - - - - - - - 0	Used before shells.
039 - HARD - - - - - - - - - - - - - - - 0	
042 - LARGE - - - - - - - - - - - - - - 0	

Attributes/Values		#	/ Definition
MCC	MATERIAL COMPOSITION CHARACTERISTICS (Cont.)		
051 -	MOBILE BOTTOM/SANDWAVES	0	
066 -	ROCKY	0	
067 -	ROTTEN	0	
078 -	SMALL	0	Greater in size than "Fine".
079 -	SOFT	0	
080 -	SPECKLED	0	
084 -	STICKY	0	
085 -	STIFF	0	
087 -	STREAKY	0	
089 -	TENACIOUS	0	
091 -	UNEVEN	0	
093 -	VARIED	0	
094 -	VOLCANIC	0	
100 -	MEDIUM	0	Used before sand.
102 -	SPRINGS IN SEABED	0	
MCP	MATERIAL COMPOSITION PRIMARY		Primary material composition of feature.
000 -	UNKNOWN	0	
001 -	ASH	0	
002 -	ASPHALT	0	
005 -	BEDROCK	0	
006 -	BOULDERS	0	
008 -	BRICK	0	
011 -	CHALK	0	
012 -	CINDERS	0	
013 -	CIRRIPEDIA	0	
014 -	CLAY	0	
016 -	COBBLE	0	
017 -	COMPOSITION	0	Combination of materials
017 -	COMPOSITION	1	Combination of stone and earth.
018 -	CONCRETE	0	
019 -	CORAL	0	
020 -	CORAL HEAD	0	
022 -	DIATOMS	0	
023 -	EARTHEN	0	
023 -	EARTHEN	1	Graded or rolled earth either with or without grass.
023 -	EARTHEN	2	Graded or Rolled Earth
024 -	EVAPORITES	0	Deposites resulting from the evaporation of water.
027 -	FORAMINIFERA	0	
028 -	FUCUS	0	
030 -	GAS /OIL BLISTER	0	
033 -	GLOBIGERINA	0	
034 -	GRASS	1	Unprepared earth with or without grass.
034 -	GRASS	2	
035 -	GRAVEL	0	
037 -	GROUND	0	
040 -	KARST	0	
043 -	LAVA	0	
044 -	LOESS	0	
045 -	MADREPORES	0	
046 -	MANGANESE	0	
047 -	MARL	0	
048 -	MASONRY	0	Stone or Brick, held together with mortar.
049 -	MATTES	0	
052 -	MUD	0	
053 -	MUSSELS	0	
055 -	OOZE	0	
056 -	OYSTERS	0	
058 -	PEBBLES	0	
059 -	POLYZOA	0	
060 -	PRESTRESSED CONCRETE	0	
061 -	PTEROPODS	0	
062 -	PUMICE	0	
063 -	QUARTZ	0	
064 -	RADIOLARIA	0	
065 -	REINFORCED CONCRETE	0	
066 -	ROCK	0	Exposed bedrock.
069 -	SAND	0	
069 -	SAND	1	Graded
070 -	SCHIST	0	
071 -	SCORIA	0	
072 -	SEA-TANGLE	0	
073 -	SEAWEED	0	
074 -	SHELLS	0	
075 -	SHINGLES	0	
076 -	SILT	0	
077 -	SOIL	0	
081 -	SPICULES	0	
082 -	SPONGE	0	
083 -	STEEL	0	
083 -	STEEL	1	Pierced steel plank.
086 -	STONE	0	
090 -	TUFA	0	
097 -	WOOD	0	
098 -	SNOW /ICE	0	
102 -	OTHER	0	
102 -	OTHER	1	Permanent (Surface Type Unknown)
103 -	BITUMINOUS	0	
104 -	COMPOSITE WITH < 50% PERMANENT MATERIAL	0	
105 -	COMPOSITE WITH >= 50% PERMANENT MATERIAL	0	

Attributes/Values		#	/ Definition
MCP	MATERIAL COMPOSITION PRIMARY (Cont.)		
106 -	SNOW	0	
107 -	ICE	0	
108 -	MACADAM	0	
109 -	MEMBRANE	0	
110 -	NON-BITUMINOUS BINDING MIX-IN-PLACE	0	
111 -	COMBINATION	0	Concrete, asphalt, and /or bituminous-bound macadam.
111 -	COMBINATION	1	(Part Concrete, Part Asphalt, or Part Macadam)
112 -	LATERITE	0	
113 -	WATER	0	
114 -	ALUMINUM	0	Pierced aluminum plank.
115 -	ASPHALT OVER CONCRETE	0	
116 -	NOT APPLICABLE	0	
117 -	ROCKY	0	Rocky ground surface with sizes larger than gravel, but smaller than boulders.
118 -	SAND AND GRAVEL	0	
119 -	SAND AND MUD	0	
120 -	SAND AND BOULDERS	0	
MCS	MATERIAL COMPOSITION SECONDARY		Secondary material composition of feature.
000 -	UNKNOWN	0	
001 -	ASH	0	
006 -	BOULDERS	0	
011 -	CHALK	0	
012 -	CINDERS	0	
013 -	CIRRIPEDIA	0	
014 -	CLAY	0	
016 -	COBBLE	0	
019 -	CORAL	0	
020 -	CORAL HEAD	0	
022 -	DIATOMS	0	
027 -	FORAMINIFERA	0	
028 -	FUCUS	0	
033 -	GLOBIGERINA	0	
034 -	GRASS	0	
035 -	GRAVEL	0	
037 -	GROUND	0	
043 -	LAVA	0	
045 -	MADREPORES	0	
046 -	MANGANESE	0	
047 -	MARL	0	
049 -	MATTES	0	
052 -	MUD	0	
053 -	MUSSELS	0	
055 -	OOZE	0	
056 -	OYSTERS	0	
058 -	PEBBLES	0	
059 -	POLYZOA	0	
061 -	PTEROPODS	0	
062 -	PUMICE	0	
063 -	QUARTZ	0	
064 -	RADIOLARIA	0	
066 -	ROCK	0	
069 -	SAND	0	
070 -	SCHIST	0	
071 -	SCORIA	0	
072 -	SEA-TANGLE	0	
073 -	SEAWEED	0	
074 -	SHELLS	0	
075 -	SHINGLES	0	
076 -	SILT	0	
081 -	SPICULES	0	
082 -	SPONGE	0	
086 -	STONE	0	
090 -	TUFA	0	
MCU	MATERIAL COMPOSITION UNDERLYING		Underlying material composition of feature.
000 -	UNKNOWN	0	
001 -	ASH	0	
006 -	BOULDERS	0	
011 -	CHALK	0	
012 -	CINDERS	0	
013 -	CIRRIPEDIA	0	
014 -	CLAY	0	
016 -	COBBLE	0	
019 -	CORAL	0	
020 -	CORAL HEAD	0	
022 -	DIATOMS	0	
027 -	FORAMINIFERA	0	
028 -	FUCUS	0	
033 -	GLOBIGERINA	0	
034 -	GRASS	0	
035 -	GRAVEL	0	
037 -	GROUND	0	
043 -	LAVA	0	
045 -	MADREPORES	0	
046 -	MANGANESE	0	
047 -	MARL	0	
049 -	MATTES	0	
052 -	MUD	0	
053 -	MUSSELS	0	

Attributes/Values	# / Definition
MCU MATERIAL COMPOSITION UNDERLYING (Cont.)	
055 - OOZE	0
056 - OYSTERS	0
058 - PEBBLES	0
059 - POLYZOA	0
061 - PTEROPODS	0
062 - PUMICE	0
063 - QUARTZ	0
064 - RADIOLARIA	0
066 - ROCK	0
069 - SAND	0
070 - SCHIST	0
071 - SCORIA	0
072 - SEA-TANGLE	0
073 - SEABED	0
074 - SHELLS	0
075 - SHINGLES	0
076 - SILT	0
081 - SPICULES	0
082 - SPONGE	0
086 - STONE	0
090 - TUFA	0
MDU MAXIMUM DEMONSTRATED USAGE	The heaviest observed aircraft utilizing the runway.
000 - CHAR: 24 A/N	0
MED MEDIAN CATEGORY	Presence of median.
000 - UNKNOWN	0
001 - WITH MEDIAN	0
002 - WITHOUT MEDIAN	0
003 - THROUGH ROUTE MEDIAN	0 Median is < 1.0 mm (at map scale) within the built-up area limits.
004 - THROUGH ROUTE WITHOUT MEDIAN	0 Median is >= 1.0 mm (at map scale) within the built-up area limits.
MF1 MOVEMENT LIMITING FACTORS (1)	Description of CCM limiting terrain factors, 1. (defined on a project specific basis)
001 - CHAR: 510 A/N	0
002 - CHAR: 510 A/N	0
003 - CHAR: 510 A/N	0
004 - CHAR: 510 A/N	0
005 - CHAR: 510 A/N	0
006 - NO GO - OPEN WATER	0
007 - BUILT-UP AREA - NOT EVALUATED	0
MF2 MOVEMENT LIMITING FACTORS (2)	Description of CCM limiting terrain factors, 2. (defined on a project specific basis)
001 - CHAR: 510 A/N	0
002 - CHAR: 510 A/N	0
003 - CHAR: 510 A/N	0
004 - NO GO - OPEN WATER	0
005 - BUILT-UP AREA - NOT EVALUATED	0
MFT MISCELLANEOUS FEATURE TYPE	Defines the type of miscellaneous surface drainage or obstacle feature encountered.
000 - UNKNOWN	0
001 - SHELTERBELT/WINDBREAK	0 A row or multiple rows of closely spaced tall bushes or trees used as a natural snow fence to protect transportation features and/or agricultural areas from drifting snow and/or wind protection.
002 - ELEVATED STRUCTURE	0 Structures which are characterized by height and/or width clearances between supports that prohibit military vehicles from passing beneath or through them.
003 - WOODED GULLY	0 A narrow, steep sided, heavily vegetated dry gully or ditch.
004 - ANTI-TANK DITCH	0 A man-made "V" shaped trench dug for the purpose of imposing an obstacle to armored vehicle cross-country movement in otherwise favorable areas.
005 - IMPACT AREA	0 Mostly artillery target practice areas where there is a high probability of unexploded ordnance.
006 - MINEFIELD	0 An area planted with explosive devices or charges in order to prevent movement through it.
007 - REPRESENTATIVE PATTERN AREA	0 Cartographically crowded areas where the sheer density and extent of the features prevents the coding of small segments.
008 - GENERAL SURFACE DRAINAGE FEATURE	0
009 - GENERAL AREA OBSTACLE	0
010 - MILITARY OBSTACLE	0
011 - GENERAL LINEAL OBSTACLE	0
012 - AREA OF ENMESHING CHANNELS	0 An area of considerable size, subject to flash flooding, where the inter-lacing channels of one or more washes/wadies/arroyos fan out over a large area in a pattern of tangled interwining channels.
013 - TIDAL FLATS	0 A flat or nearly flat, barren or slightly marshy area formed through deposition caused by the alternate rise and fall of the tide.
014 - NOT APPLICABLE	0

Attributes/Values	# / Definition
MIN MINING CATEGORY	Unique mining characteristic.
000 - UNKNOWN - - - - - - - - - - - -	0
002 - HORIZONTAL SHAFT - - - - - - - - -	0 An underground mine with a tunnel-like entrance that extends horizontally into a hillside.
003 - OPEN PIT - - - - - - - - - - - -	0 An open excavation with steep, sometimes terraced sides that completely enclose the excavation.
004 - PLACER - - - - - - - - - - - - -	0 An operation where unconsolidated, ore-bearing sediments are dug or dredged up; the ore separated by hydraulic methods, with the tailings often returned to the excavated area.
005 - PROSPECT - - - - - - - - - - - -	0 A small, exploratory pit or shaft (horizontal or vertical), excavated during the search for an economical deposit, from which no production has taken place.
006 - STRIP - - - - - - - - - - - - -	0 A relatively shallow excavation where the active digging is along a linear front (shear wall) and the tailings are often used to fill in behind the excavation.
007 - VERTICAL SHAFT - - - - - - - - - -	0 An underground excavation where access is through a vertical shaft. Operational mines are covered by a superstructure which carries the mine elevator cables and equipment.
008 - PEAT CUTTINGS - - - - - - - - - -	0 A pattern of pits or trenches where peat deposits have been excavated.
MLR MULTIPLE LIGHT RANGES	A set of two numbers, light ranges at a light expressed in nautical miles, in separated by a slash (/) if only two visibilities exist, or by a dash (-) separating the greatest and least visibilities if 3 or more exist. Not applicable if light has only one range.
000 - ANY SET - - - - - - - - - - - -	0
MLT MARITIME LIMIT TYPE	Type of limit or activity involved.
001 - OTHER - - - - - - - - - - - - -	0
002 - FAIRWAY - - - - - - - - - - - -	0
003 - TURNING AREA - - - - - - - - - - -	0
004 - SPOIL AREA - - - - - - - - - - -	0
005 - UNSURVEYED AREA - - - - - - - - -	0
011 - SUBMARINE EXERCISE AREA - - - - -	0
012 - MINE LAYING PRACTICE AREA - - - -	0
013 - FIRING DANGER AREA - - - - - - - -	0
014 - PRECAUTIONARY AREA - - - - - - - -	0
015 - DUMPING GROUND FOR HAZARDOUS MATERIAL - - - - - - - - - - -	0
016 - DREDGING AREA - - - - - - - - - -	0
017 - INCINERATION AREA - - - - - - - -	0
018 - OIL /GAS FIELD - - - - - - - - - -	0
019 - PILOT BOARDING AREA - - - - - - -	0
020 - DEGAUSSING RANGE - - - - - - - - -	0
021 - FISH TRAP AREA - - - - - - - - - -	0
022 - MARINE FARM - - - - - - - - - - -	0
023 - CARGO TRANSHIPMENT AREA - - - - -	0
024 - LOG POND - - - - - - - - - - - -	0
025 - U.S. EXCLUSIVE ECONOMIC ZONE (EEZ)	0
MOT MODE OF TRANSPORT	Type of vehicle which predominately uses the feature.
001 - AIRCRAFT - - - - - - - - - - - -	0
003 - SHIP - - - - - - - - - - - - -	0 Mooring area for inactivated ships. Excludes operating anchorages.
004 - AUTOMOTIVE - - - - - - - - - - -	0
MSA MISSILE SITE ATTRIBUTE	Configuration of site.
001 - DISPERSED - - - - - - - - - - -	0 A site where launchers from a single operational unit (battery) are separated by a distance greater than their normal site configuration.
002 - MULTIPLE - - - - - - - - - - - -	0 A site containing missile launchers from two or more operational units (batteries).
003 - SINGLE - - - - - - - - - - - - -	0 A site containing missile launchers all belonging to the same operational unit (battery).
MST MISSILE SITE TYPE	Class of missile at site.
000 - UNKNOWN - - - - - - - - - - - -	0
001 - ABM - - - - - - - - - - - - - -	0
002 - ICBM - - - - - - - - - - - - - -	0
003 - IRBM - - - - - - - - - - - - - -	0
004 - SA1 - - - - - - - - - - - - - -	0
005 - SA2 - - - - - - - - - - - - - -	0
006 - SA3 - - - - - - - - - - - - - -	0
007 - SA4 - - - - - - - - - - - - - -	0
008 - SA5 - - - - - - - - - - - - - -	0
009 - SA6 - - - - - - - - - - - - - -	0
010 - SA7 - - - - - - - - - - - - - -	0
011 - SA8 - - - - - - - - - - - - - -	0
012 - SA9 - - - - - - - - - - - - - -	0
013 - MRBM - - - - - - - - - - - - - -	0
014 - SSM - - - - - - - - - - - - - -	0
016 - OTHER - - - - - - - - - - - - -	0
017 - SA10 - - - - - - - - - - - - - -	0

Attributes/Values		#	/ Definition
MSW	MOVEMENT SURFACE WIDTH		The measurement of the feature's axis perpendicular to normal aircraft movement. Increment: 0.1 Meter Limits: Excluding any shoulders. Variance: N/A Range: 0.1...7000.0
MTS	MISCELLANEOUS TEXTUAL DESCRIPTION		Textual description of the feature.
	000 - ANY DESCRIPTION - - - - - - - - - -	0	
MWD	MEDIAN WIDTH		The distance between connecting, adjacent, and two-way road centerlines having divided roadbeds, measured at map scale.
	001 - NO MEDIAN - - - - - - - - - - - - -	0	
	002 - <= 1.50MM (AT MAP SCALE) - - - - - -	0	Median exists, but is <= 1.50 mm (at map scale).
	003 - > 1.50 MM (AT MAP SCALE) - - - - - -	0	Median exists, but is > 1.50 mm (at map scale).
MWG	MEDIAN WIDTH WITH GREATER PRECISION		The measured distance at map scale between connecting, adjacent and two-way road centerlines having divided roadbeds. Increment: 0.01 Millimeter Limits: Predominant distance between roadbeds of a divided highway, measured centerline to centerline (at map scale). Variance: N/A Range: > 0...No Upper Limit
NAN	NAME CATEGORY		The proper name, identifying code, or number of a feature.
	000 - ANY IDENTIFIER - - - - - - - - - -	0	
NAS	NATIVE SETTLEMENT TYPE		The distribution of native dwellings within the delineated area of the feature.
	001 - CENTRALIZED HABITATION - - - - - -	0	Native settlements which occur as dense concentrations of closely spaced native dwellings with well-defined limits.
	002 - CONTINUOUS HABITATION - - - - - -	0	Native settlements or huts which occur in a widespread pattern with poorly-defined limits in Southeast Asia (Kampongs).
NLC	NAME LANGUAGE CODE		Name of languages and their codes for identification of alternate local official names of non-international features.
	001 - AFR - - - - - - - - - - - - - - - -	0	Afrikaans
	002 - ALB - - - - - - - - - - - - - - - -	0	Albanian
	003 - AMH - - - - - - - - - - - - - - - -	0	Amharic
	004 - ARA - - - - - - - - - - - - - - - -	0	Arabic
	005 - BIS - - - - - - - - - - - - - - - -	0	Bislama -- Code developed by SDSN in accordance with the principle utilized in the Library of Congress list of languages and language codes.
	006 - BUL - - - - - - - - - - - - - - - -	0	Bulgarian
	007 - BUR - - - - - - - - - - - - - - - -	0	Burmese
	008 - CAT - - - - - - - - - - - - - - - -	0	Catalan
	009 - CHI - - - - - - - - - - - - - - - -	0	Chinese
	010 - CZE - - - - - - - - - - - - - - - -	0	Czech
	011 - DAN - - - - - - - - - - - - - - - -	0	Danish
	012 - DUT - - - - - - - - - - - - - - - -	0	Dutch
	013 - ENG - - - - - - - - - - - - - - - -	0	English
	014 - EST - - - - - - - - - - - - - - - -	0	Estonian
	015 - FAR - - - - - - - - - - - - - - - -	0	Faroese
	016 - FIN - - - - - - - - - - - - - - - -	0	Finnish
	017 - FLE - - - - - - - - - - - - - - - -	0	Flemish (Dutch)
	018 - FRE - - - - - - - - - - - - - - - -	0	French
	019 - GER - - - - - - - - - - - - - - - -	0	German
	020 - GRE - - - - - - - - - - - - - - - -	0	Greek
	021 - ESK - - - - - - - - - - - - - - - -	0	Greenlandic (Eskimo)
	022 - HEB - - - - - - - - - - - - - - - -	0	Hebrew
	023 - HUN - - - - - - - - - - - - - - - -	0	Hungarian
	024 - ICE - - - - - - - - - - - - - - - -	0	Icelandic
	025 - IND - - - - - - - - - - - - - - - -	0	Indonesian
	026 - IRI - - - - - - - - - - - - - - - -	0	Irish
	027 - ITA - - - - - - - - - - - - - - - -	0	Italian
	028 - JPN - - - - - - - - - - - - - - - -	0	Japanese
	029 - CAM - - - - - - - - - - - - - - - -	0	Khmer (Cambodian)
	030 - KIN - - - - - - - - - - - - - - - -	0	Kinyarwanda
	031 - KIR - - - - - - - - - - - - - - - -	0	Kirundi
	032 - KOR - - - - - - - - - - - - - - - -	0	Korean
	033 - LAO - - - - - - - - - - - - - - - -	0	Lao
	034 - LAV - - - - - - - - - - - - - - - -	0	Latvian
	035 - LIT - - - - - - - - - - - - - - - -	0	Lithuanian
	036 - MLA - - - - - - - - - - - - - - - -	0	Malagasy
	037 - MAY - - - - - - - - - - - - - - - -	0	Malay
	038 - MLT - - - - - - - - - - - - - - - -	0	Maltese
	039 - MON - - - - - - - - - - - - - - - -	0	Mongolian
	040 - NAU - - - - - - - - - - - - - - - -	0	Nauruan -- Code developed by SDSN in accordance with the principle utilized in the Library of Congress list of languages and language codes.
	041 - NOR - - - - - - - - - - - - - - - -	0	Norwegian
	042 - PER - - - - - - - - - - - - - - - -	0	Persian

Attributes/Values | # / Definition

NLC NAME LANGUAGE CODE (Cont.)

043 - TAG	0	Philipino (Tagalog)
044 - POL	0	Polish
045 - PRO	0	Portuguese
046 - RUM	0	Romanian
047 - RUS	0	Russian
048 - SMO	0	Samoan
049 - SCR	0	Serbocroatian
050 - SLO	0	Slovak
051 - SOM	0	Somali
052 - SPA	0	Spanish
053 - SWA	0	Swahili
054 - SWE	0	Swedish
055 - TUR	0	Turkish
056 - VIE	0	Vietnamese

NM1 PRIMARY NAME CATEGORY ..... The primary official name as designated by the operating agency, FAA, or by official publications of the country in which the facility is located.

000 - CHAR: 38 A/N - - - - - - - - - - - 0

NM3 NAME 3 ..... Name of the political entity on one side of a boundary.

000 - ANY NAME - - - - - - - - - - - - 0

NM4 NAME 4 ..... Name of the political entity on the other side of the boundary.

000 - ANY NAME - - - - - - - - - - - - 0

NOB NUMBER OF BAYS ..... The number of bays available at the bunker.

Increment: 1 Bay
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 1...999

NOC NUMBER OF CURVES ..... Number of closely spaced sharp curves aggregated together for portrayal with a single sharp curve symbol.

Increment: 1 Sharp Curve
Limits: Sharp curves must be within 250 meters of each other.
Variance: N/A

Range: > 0...No Upper Limit

NOF NUMBER OF FORDS ..... Number of fords closely aggregated together for portrayal with a single ford symbol.

Increment: 1 ford
Limits: Fords must be within 250 meters of each other.
Variance: N/A

Range: > 0...No Upper Limit

NOS NUMBER OF SPANS ..... Number of spans within extent of bridge.

Increment: 1 Span
Limits: N/A
Variance: N/A

Default:0=Unknown, 998=Not Applicable
Range: 1...997

NPL NUMBER OF PARALLEL LINES ..... Number of parallel lines within feature.

Increment: 1 Power Line
Limits: N/A
Variance: N/A

Range: > 0...No Upper Limit

NSN NAVIGATION SYSTEM NAME ..... The name of the navigation system used to measure the sounding depths.

000 - CHAR: 80 A/N - - - - - - - - - - 0

NST RADIO NAVIGATION /COMMUNICATION ..... Type of equipment or system used.

000 - UNKNOWN - - - - - - - - - - - - -	0
002 - CONSOL - - - - - - - - - - - - - -	0
003 - DECCA - - - - - - - - - - - - - - -	0
005 - DIRECTIONAL RADIOBEACON - - - - - -	0
007 - LORAN - - - - - - - - - - - - - - -	0
008 - OMEGA - - - - - - - - - - - - - - -	0
009 - OTHER - - - - - - - - - - - - - - -	0
010 - RADAR BEACON (RACON) - - - - - - - -	0
011 - RADAR - - - - - - - - - - - - - - -	0
012 - RADIO - - - - - - - - - - - - - - -	0
013 - RADIO TELEPHONE - - - - - - - - - -	0
015 - TV - - - - - - - - - - - - - - - -	0
016 - MICROWAVE - - - - - - - - - - - - -	0
017 - NON-DIRECTIONAL RADIOBEACON (NDB)	0
018 - NDB /DME - - - - - - - - - - - - - -	0
019 - RNG - - - - - - - - - - - - - - - -	0

Attributes/Values — # / Definition

NST RADIO NAVIGATION /COMMUNICATION (Cont.)

020 -	VOR OMNIRANGE	0
021 -	VOR /DME	0
022 -	VORTAC OMNIRANGE	0
023 -	TACAN	0
024 -	ILS	0
025 -	ILS /DME	0
026 -	LOC	0
027 -	LOC /DME	0
030 -	MLS	0
031 -	FAN MARKER	0
032 -	BONE MARKER	0
033 -	RADIO TELEGRAPH	0
035 -	RADAR ANTENNA	0
038 -	DISTANCE MEASURING EQUIPMENT (DME)	0
039 -	ILS BACK COURSE	0
040 -	LOC BACK COURSE	0
041 -	RADAR REFLECTOR	0
042 -	VOR TEST SIGNAL (VOT)	0
043 -	MARKER	0
044 -	RAMARK	0
045 -	NON-DIRECTIONAL RADIOBEACON MARINE (NDB)	0
050 -	NONE	0

NVT NAVAID TYPE ..... Type of NAVAID for which information can be reported.

000 -	UNKNOWN	0	
001 -	CONTROL TOWER	0	
002 -	VOR	0	Very High Frequency Omni Range
003 -	TACAN	0	Tactical Air Navigations
004 -	VORTAC	0	
005 -	NDB	0	Non-directional Radio Beacon
006 -	PAR	0	Precision Approach Radar
007 -	ILS /MLS	0	Instrument or Microwave Landing System
008 -	ASR	0	Airport Surveillance Radar
009 -	FM	0	Fan Marker
010 -	OM	0	Outer Marker
011 -	MM	0	Middle Marker
012 -	LOM	0	Locator Outer Marker
013 -	LMM	0	Locator Middle Marker
014 -	ROTATING BEACON LIGHT	0	

O01 NUMBER OF SINGLE POINT REFUELING UNITS ..... The number of hose /filter-water separator carts /trucks for single point refueling for the designated fuel.

Increment: 1 Cart /Truck
Limits: N/A
Variance: N/A

Default:0=Unknown
Range: 1...999

OAC ORDNANCE AREA CONSTRUCTION ACTIVITY ..... Construction activity in the ordnance storage area.

000 -	UNKNOWN	0	
001 -	1	0	Area is under construction.
002 -	2	0	Area is not under construction.

OBS ORDNANCE BUNKER STORAGE ..... Indicates whether or not ordnance is stored in a bunker.

000 -	UNKNOWN	0	
001 -	1	0	Ordnance is stored in a bunker.
002 -	2	0	Ordnance is not bunker stored.

OFT ORDNANCE FACILITY TYPE ..... Ordnance facility brief description.

001 -	MAIN FACILITY	0
002 -	OTHER	0

OHB OVERALL HEIGHT OF BRIDGE ..... The vertical distance from the lowest point to the tallest point on the bridge.

Increment: 1 Meter
Limits: Measured from the lowest point (downhill side),at ground or water level, to the tallest portion of the bridge (including any superstructure).
Variance: N/A

Range: > 0...No Upper Limit

OHC OVERHEAD CLEARANCE CATEGORY ..... Least clearance between the surface of the travelled way or top of the rail and any obstruction vertically above it.

Increment: 0.1 Meter
Limits: Measured between the travelled way surface or track level and the lowest portion of any obstruction vertically above it.
Variance: Measure minimum clearance. Documented or field checked data is recorded as given.

Default:0=Unknown, 998=Restricted, 999=Unlimited
Range: > 0...997.9

Attributes/Values	# / Definition
OHD OBSTACLE HEIGHT/DEPTH CATEGORY	Categorized maximum height or depth range of obstacle feature, in meters, within delineated segment or area.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - > 1.5 AND <= 5.0 - - - - - - - - - 0	
002 - > 5.0 AND <= 10.0 - - - - - - - - - 0	
003 - > 10.0 AND <= 20.0 - - - - - - - - 0	
004 - > 20.0 AND <= 40.0 - - - - - - - - 0	
005 - > 40.0 - - - - - - - - - - - - - - 0	
OLQ OBSTRUCTION LIGHT QUALITY	Indicates whether single or multiple obstruction lights are present.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - ONE LIGHT PRESENT - - - - - - - - - 0	
002 - MULTIPLE LIGHTS PRESENT - - - - - - 0	
OPS OPERATIONAL STATUS	Indicates whether or not the feature is in operation.
001 - OPERATIONAL - - - - - - - - - - - 0	
002 - NON-OPERATIONAL - - - - - - - - - 0	
OPT OPERATING TIMES	The feature's operating hours, days, months, etc.
000 - CHAR: 240 A/N - - - - - - - - - - 0	
OSR ORDNANCE STORAGE REMARKS	Remarks on ordnance storage.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
OWO OVER WATER OBSTRUCTION	Indicates the presence of an obstruction over an area of navigable water.
001 - FEATURE CROSSES NAVIGABLE WATER. - 0	Feature crosses over navigable water that is required for access to a port.
002 - FEATURE CROSSES NON-NAVIGABLE WATER. - - - - - - - - - - - - - 0	Feature crosses over water that is not navigable, except possibly by small craft, or is not required for access to a port.
003 - NOT APPLICABLE - - - - - - - - - - 0	Feature does not cross over water.
PAN PARKING AREA NOTES	Information on this feature not covered by the other attributes.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
PBV PILOT BOARDING VEHICLE	The method by which pilots are transferred to and from ships using pilot services.
001 - BY BOAT - - - - - - - - - - - - 0	
002 - BY HELICOPTER - - - - - - - - - - 0	
003 - NOT APPLICABLE - - - - - - - - - - 0	
PCI POINT OF CHANGE IDENTIFIER	Identifies category of feature associated with a point of change.
001 - TRANSPORTATION/ROAD OR RAILROAD - 0	
002 - HYDROGRAPHY/DRAINAGE - - - - - - - 0	
003 - BOUNDARIES - - - - - - - - - - - - 0	
004 - ROAD WIDTH CHANGE - - - - - - - - - 0	
005 - OBSTACLES - - - - - - - - - - - - 0	
007 - DREDGED CHANNEL - - - - - - - - - 0	
008 - RECOMMENDED TRACK FOR OTHER THAN DEEP WATER VESSELS - - - - - - - - 0	
009 - RECOMMENDED TRACK FOR DEEP WATER VESSELS - - - - - - - - - - - - - 0	
PCT POINT-TO-POINT COMMUNICATIONS TEXT	List point-to-point communications on or directly related to the airport.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
PER PERIOD OF LIGHT	The amount of time until a light repeats its sequence.
	Increment: 0.1 Second Limits: Measured until a light repeats its characteristic flashing or occulting sequence. Variance: N/A
Default:0.0=Unknown, 999=Not Applicable Range: 0.1...998.9	
PFD PREDOMINANT FEATURE DEPTH	Predominant depth within delineation of feature.
	Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
Range: > 0...No Upper Limit	
PFH PREDOMINANT FEATURE HEIGHT	Predominant height within delineation of feature.
	Increment: 0.1 Meter Limits: N/A Variance: Documented or field checked data is recorded as given.
Range: > 0...No Upper Limit	

Attributes/Values	# / Definition
PFL PROPER NAME/FUNCTION/LOCATION DESCRIPTIO	Annotation Proper Name.
000 - CHAR: 80 A/N - - - - - - - - - - - 0	
PH3 PREDOMINANT HEIGHT (5 M RANGE)	Predominant height range of a specified urban area (reported in 5 meter ranges).
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - <= 5 - - - - - - - - - - - - - - - - 0	
002 - > 5 AND <= 10 - - - - - - - - - - - 0	
003 - > 10 AND <= 15 - - - - - - - - - - - 0	
004 - > 15 AND <= 20 - - - - - - - - - - - 0	
005 - > 20 AND <= 25 - - - - - - - - - - - 0	
006 - > 25 AND <= 30 - - - - - - - - - - - 0	
007 - > 30 AND <= 35 - - - - - - - - - - - 0	
008 - > 35 AND <= 40 - - - - - - - - - - - 0	
009 - > 40 AND <= 45 - - - - - - - - - - - 0	
010 - > 45 AND <= 50 - - - - - - - - - - - 0	
011 - > 50 AND <= 55 - - - - - - - - - - - 0	
012 - > 55 AND <= 60 - - - - - - - - - - - 0	
013 - > 60 AND <= 65 - - - - - - - - - - - 0	
014 - > 65 AND <= 70 - - - - - - - - - - - 0	
015 - > 70 AND <= 75 - - - - - - - - - - - 0	
016 - > 75 AND <= 80 - - - - - - - - - - - 0	
017 - > 80 AND <= 85 - - - - - - - - - - - 0	
018 - > 85 AND <= 90 - - - - - - - - - - - 0	
019 - > 90 AND <= 95 - - - - - - - - - - - 0	
020 - > 95 AND <= 100 - - - - - - - - - - - 0	
021 - > 100 - - - - - - - - - - - - - - - - 0	
022 - NOT APPLICABLE - - - - - - - - - - - 0	
PH4 PREDOMINANT HEIGHT (10 M RANGE)	Predominant height range of a specified urban area (reported in 10 meter ranges).
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - <= 10 - - - - - - - - - - - - - - - - 0	
002 - > 10 AND <= 20 - - - - - - - - - - - 0	
003 - > 20 AND <= 30 - - - - - - - - - - - 0	
004 - > 30 AND <= 40 - - - - - - - - - - - 0	
005 - > 40 AND <= 50 - - - - - - - - - - - 0	
006 - > 50 AND <= 60 - - - - - - - - - - - 0	
007 - > 60 AND <= 70 - - - - - - - - - - - 0	
008 - > 70 AND <= 80 - - - - - - - - - - - 0	
009 - > 80 AND <= 90 - - - - - - - - - - - 0	
010 - > 90 AND <= 100 - - - - - - - - - - - 0	
011 - > 100 - - - - - - - - - - - - - - - - 0	
012 - NOT APPLICABLE - - - - - - - - - - - 0	
PHT PREDOMINANT HEIGHT	Height of 51% or more of the feature. If not obtainable, then the average height of the feature will be used. Increment: 1 Meter Limits: A resolution of the PHT values of all the structures within the aggregate. Variance: If no PHT value predominates then the greatest PHT value in the aggregate shall be used. The PHT shall be adjusted to account for significantly taller structures, if these structures occupy >= 15% of the areal feature, are > 6m taller than the ...
Range: 0...No Upper Limit	
PIA PORT INDEX ATTRIBUTE	Indicates the presence of a port, as identified in the World Port Index.
001 - PORT IS IN WORLD PORT INDEX - - - 0	
002 - PORT IS NOT IN WORLD PORT INDEX - 0	
PKU PARKING AREA USE	Feature usage.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - ALERT APRON /HARDSTAND - - - - - - - 0	
001 - ALERT APRON /HARDSTAND - - - - - - - 1	An apron /hardstand usually collocated with a taxiway accessing the runway ends. Used for aircraft marshalling and pre-takeoff operations. Sometimes called a holding bay or holding apron /hardstand.
002 - OPERATIONAL APRON /HARDSTAND - - - - 0	
002 - OPERATIONAL APRON /HARDSTAND - - - - 1	An apron /hardstand used for the parking, marshalling, temporary storage, loading, or unloading of aircraft.
003 - HANGAR APRON - - - - - - - - - - - - 0	
003 - HANGAR APRON - - - - - - - - - - - - 1	An apron immediately accessible to a ramp used as a ramp into the hangar.
004 - BASE FLIGHT APRON - - - - - - - - - 0	
004 - BASE FLIGHT APRON - - - - - - - - - 1	An apron on a military airport usually used for non-tactical, strategic or mission aircraft which are used in support of base functions in support of the mission aircraft.
005 - ENGINE TEST PAD /APRON - - - - - - - 0	
005 - ENGINE TEST PAD /APRON - - - - - - - 1	An apron designated for aircraft engine run-up, tabbing, or power checks situated away from habitated and regularly used aircraft movement areas.
006 - TRANSIENT APRON - - - - - - - - - - 0	
006 - TRANSIENT APRON - - - - - - - - - - 1	Space set aside on an apron to be used by visiting aircraft.
007 - DEPOT APRON - - - - - - - - - - - - 0	

Attributes/Values		#	/ Definition
PKU	PARKING AREA USE (Cont.)		
007 -	DEPOT APRON	1	An apron usually situated in an area convenient to a supply/parts or aircraft maintenance depot maintenance area.
008 -	STUB APRON	0	
008 -	STUB APRON	1	Short end of abandoned taxiway, runway or ramp. Used for short term parking, maintenance, etc.
009 -	DISPERSAL HARDSTAND	0	
010 -	PAD HARDSTAND	0	
011 -	REFUELING HARDSTAND	0	
012 -	PARKING HARDSTAND	0	
013 -	ENGINE RUN-UP HARDSTAND	0	
014 -	FIRING-IN HARDSTAND	0	
015 -	COMPASS ROSE HARDSTAND	0	
016 -	MAINTENANCE HARDSTAND	0	
017 -	OTHER	0	
PLB	PLACEMENT		Classified (PLB).
000 -	CLASSIFIED (1)	0	
001 -	CLASSIFIED (2)	0	
PLC	POWER LINE CATEGORY		Identifies a alpha alpha code that relates to the construction material and height of the feature for portrayal.
001 -	AA	0	Feature is metal construction, height > 149'.
002 -	AB	0	Feature is metal construction, height 100'-149'.
003 -	AC	0	Feature is metal construction, height < 100'.
004 -	BA	0	Feature is concrete construction, height > 149'.
005 -	BB	0	Feature is concrete construction, height 100'-149'.
006 -	BC	0	Feature is concrete construction, height < 100'.
007 -	CA	0	Feature is wood construction, height > 149'.
008 -	CB	0	Feature is wood construction, height 100' - 149'.
009 -	CC	0	Feature is wood construction, height < 100'.
PLT	PIPELINE TYPE		Identifies function of pipeline.
001 -	TRANSPORT	0	A pipe that transports liquids or gases from one facility or container to another facility or container.
002 -	OUTFALL	0	A pipe that discharges liquids into a body of water.
003 -	INTAKE	0	A pipe that removes water from a body of water.
PLU	PREDOMINANT LAND USE		Predominant land use is that land use which accounts for 60 percent or more of the delineated built-up area.
000 -	UNKNOWN	0	Urban area for which neither a predominant use nor a mixture of uses can be determined from the source material.
001 -	MILITARY	0	Cantonment areas and associated facilities (troop quarters, depots, vehicle parks, repair and service shops, etc.), owned, operated or used by the armed forces, excluding open space, maneuver areas, and other non-built-up areas.
002 -	INDUSTRIAL	0	Areas and related facilities engaged in light (design, assembly, finishing, processing, and packaging) or heavy (metal processing, rolling, fabrication, pulp and lumber, oil refineries, shipyards, etc.) manufacturing activities.
005 -	COMMERCIAL	0	Area of retail, wholesale, financial, office, hotel, and other establishments used primarily for the sale and exchange of goods and services. If PLU022 not in use, also includes transportation and storage facilities.
006 -	RESIDENTIAL	0	Area devoted to the living accommodations (dwellings units from small huts to high-rise apartments) of human beings. Area may be interspersed with small shopping centers, churches, schools, police and fire stations, etcetera.
012 -	GOVERNMENTAL AND INSTITUTIONAL	0	Areas and complexes used for governmental, educational, penal, research, care of the aged, and other administrative purposes. If PLU023 is not in use, also includes medical facilities and hospitals.
016 -	RECREATIONAL AND RELIGIOUS AREAS	0	Large sports or religious complexes and other facilities used for athletic, recreational, or religious activities, such as fairgrounds, ice rinks, baseball and football fields, stadium facilities, churches, temples and mosques.
019 -	UTILITIES AND COMMUNICATION	0	Land areas used by utilities, and for the storage of bulk goods, and airwave communications, such as those involved in the processing and treatment of water, gas, oil, and electricity, and communication stations and antenna farms.
020 -	MIXED URBAN OR BUILT-UP LAND	0	Built-up area where no single use category predominants (mixed land use classifications at map scale). These will generally be a mixture of residential and commerical uses, although any combination is possible.
021 -	OTHER URBAN OR BUILT-UP LAND	0	Other types of urban land use(s) not identified or adequately described by the above categories..
022 -	TRANSPORTATION	1	Large blocks of land used for transportation purposes, such as large terminals, trans-shipment points, storage and repair facilities, associated with the movement of goods and personnel by road, rail, canal, airway, or pipeline.

Attributes/Values	#	/ Definition
PLU PREDOMINANT LAND USE (Cont.)		
023 - MEDICAL/MEDICAL COMPLEXES	1	The area of a large hospital complex or medical research institution with its associated structures and facilities used for the care and treatment of patients or biological research.
PPC POWER PLANT CATEGORY		Energy source used to generate power.
000 - UNKNOWN	0	
001 - HYDRO-ELECTRIC	0	Use of water pressure to turn the generators.
002 - NUCLEAR	0	Use of nuclear reaction producing steam to turn the generators.
003 - SOLAR	0	Use of the sun's energy to produce steam to turn the generators.
004 - THERMAL	0	Use of geothermal steam to turn the generators.
006 - TIDAL	0	Use of the rise and fall of water due to tides to turn the generators.
007 - INTERNAL COMBUSTION	0	Use of internal combustion motor to turn the generators.
008 - NOT APPLICABLE	0	
009 - SUBSTATION	1	
010 - TRANSFORMER YARD	1	
PPL POPULATED PLACE CATEGORY		An area inhabited by a number of people within a concentrated geographical area.
001 - 1ST CLASS	0	>= 500,000
002 - 2ND CLASS	0	>= 50,000 and < 500,000
003 - 3RD CLASS	0	>= 10,000 and < 50,000
004 - 4TH CLASS	0	>= 5,000 and < 10,000
005 - 5TH CLASS	0	< 5,000
PRO PRODUCT CATEGORY		Principal material involved or product resulting from activity at site.
000 - UNKNOWN	0	
001 - ALUMINUM	0	
002 - AMMUNITION	0	
003 - ASPHALT	0	
004 - BRICK	0	
005 - CEMENT	0	
006 - CHEMICAL	0	
007 - CLAY	0	
008 - COKE	0	
009 - COAL	0	
010 - COPPER	0	
011 - EXPLOSIVES	0	
012 - NATURAL GAS	0	
013 - GASOLINE	0	
014 - GLASS	0	
015 - GOLD	0	
016 - IRON	0	
017 - LEAD	0	
018 - OIL	0	
019 - OTHER	0	
020 - PAPER	0	
021 - RADIOACTIVE MATERIAL	0	
022 - RUBBER	0	
024 - SILVER	0	
025 - STEEL	0	
026 - VEGETATION PRODUCTS	0	Food Processing.
027 - WATER	0	
028 - URANIUM	0	
029 - ZINC	0	
030 - SLAG	0	
032 - TAILINGS	0	
033 - METAL	0	
035 - SEWAGE	0	
036 - ELECTRICITY	0	
037 - HEAT	0	
038 - SALT	0	
040 - GRAVEL	0	
041 - STONE	0	
042 - SAND	0	
043 - ROCK	0	
045 - NONE	0	
046 - BAUXITE	0	
047 - LUMBER	0	
050 - BANANAS	0	
051 - COTTON	0	
052 - PERSONNEL	0	Air raid shelter
053 - AIRCRAFT	0	
054 - BAMBOO	0	
055 - COFFEE	0	
056 - COMMON FRUIT AND/OR NUT	0	
057 - PALMS	0	
058 - PALMETTO	0	
059 - REFUSE	0	
060 - NOT APPLICABLE	0	
061 - MOLASSAS	0	
062 - OXYGEN	0	
063 - HELIUM	0	
064 - HYDROGEN	0	

Attributes/Values	# / Definition
PSR FEATURE PHYSICAL SECURITY REMARKS	Remarks to indicate the threat/security evaluation: list security provisions, and other significant remarks.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
PUC PIER USE CATEGORY	The primary use of the pier.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - DECKED BERTHING STRUCTURE FOR VESSELS - - - - - - - - - - - 0	
002 - RECREATIONAL - - - - - - - - - - - 0	
PXT PIPELINE /PIPE CROSSING POINT TYPE	Type of crossing site.
001 - BELOW GROUND SURFACE - - - - - - - 0	Crossing via a small tunnel-like structure below the ground surface where the pipeline /pipe is at or above the ground surface.
002 - ON GROUND SURFACE - - - - - - - - 0	Crossing that occurs either when an elevated pipeline / pipe has been further elevated for a short linear distance, or when is located below ground level.
003 - ELEVATED - - - - - - - - - - - - - 0	Crossing is via a ramp structure where pipeline /pipe is at or above groundlevel.
RA1 RADIO AID (1)	The type of radio navigational aid employed (First occurrence).
000 - UNKNOWN - - - - - - - - - - - - - 0	
004 - RADIO DIRECTION FINDING STATION (RG) - - - - - - - - - - - - - - - 0	
005 - DIRECTIONAL RADIOBEACON (RD) - - - 0	
010 - RACON (RACON) - - - - - - - - - - 0	
014 - ROTATING RADIOBEACON (RW) - - - - 0	
017 - CIRCULAR RADIOBEACON (RC) - - - - 0	
045 - QTG STATION (R) - - - - - - - - - 0	
046 - COAST RADAR STATION (RA) - - - - - 0	
047 - RAMARK (RAMARK) - - - - - - - - - 0	
048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) - - - - - 0	
049 - RADIOBEACON, TYPE UNKNOWN (R BN) - 0	
050 - NONE - - - - - - - - - - - - - - 0	
051 - CONSOL - - - - - - - - - - - - - 0	
RA2 RADIO AID (2)	The type of radio navigational aid employed (Second occurrence).
000 - UNKNOWN - - - - - - - - - - - - - 0	
004 - RADIO DIRECTION FINDING STATION (RG) - - - - - - - - - - - - - - - 0	
005 - DIRECTIONAL RADIOBEACON (RD) - - - 0	
010 - RACON (RACON) - - - - - - - - - - 0	
014 - ROTATING RADIOBEACON (RW) - - - - 0	
017 - CIRCULAR RADIOBEACON (RC) - - - - 0	
045 - QTG STATION (R) - - - - - - - - - 0	
046 - COAST RADAR STATION (RA) - - - - - 0	
047 - RAMARK (RAMARK) - - - - - - - - - 0	
048 - AERONAUTICAL RADIOBEACON, NON-DIRECTIONAL (AERO RC) - - - - - 0	
049 - RADIOBEACON, TYPE UNKNOWN (R BN) - 0	
050 - NONE - - - - - - - - - - - - - - 0	
051 - CONSOL - - - - - - - - - - - - - 0	
RAA RESTRICTED AREA ATTRIBUTE	Textual description of the activity which is prohibited within the feature.
000 - ANY DESCRIPTION - - - - - - - - - 0	
RAH RUNWAY HIGH END APPROACH LIGHTS	The availability of approach lights on the high end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
RAL RUNWAY LOW END APPROACH LIGHTS	The availability of approach lights on the low end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
RCL RUNWAY CENTERLINE LIGHTS	The availability of runway centerline lights.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
REF RADAR REFLECTOR ATTRIBUTE	Indicates whether or not a radar reflector is attached to, or connected with, a feature.
001 - RADAR REFLECTOR PRESENT - - - - - - 0	
002 - RADAR REFLECTOR ABSENT - - - - - - 0	
REL RELIGIOUS DENOMINATION	Name of the religious order at site.

Attributes/Values	# / Definition
REL RELIGIOUS DENOMINATION (Cont.)	
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - BUDDHIST - - - - - - - - - - - - - - - 0	
002 - CHRISTIAN - - - - - - - - - - - - - - 0	
003 - ISLAMIC - - - - - - - - - - - - - - - 0	
004 - JEWISH - - - - - - - - - - - - - - - - 0	
012 - SHINTO - - - - - - - - - - - - - - - - 0	
019 - NOT APPLICABLE - - - - - - - - - - - 0	
RFL RUNWAY FLOOD LIGHTS	The availability of runway flood lights.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - - 0	
RGC RAILROAD GAUGE CATEGORY	The type of gauge used.
001 - BROAD - - - - - - - - - - - - - - - - 0	Any gauge wider than the normal gauge.
002 - NARROW - - - - - - - - - - - - - - - - 0	Any gauge less than the normal gauge.
003 - NORMAL - - - - - - - - - - - - - - - - 0	The gauge used by the majority of the mainline railroads in a country.
RGE TRANSMITTER EFFECTIVE RANGE	Transmitter capacity expressed as effective range.
	Increment: 1 Nautical Mile Limits: N/A Variance: N/A
Range: 1...998	
RHI RUNWAY HIGH END IDENTIFIER LIGHTS	The availability of identifier lights at the high end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - - 0	
RID ROAD IMPORTANCE DESCRIPTOR	The relative importance of a road.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - PRIMARY - - - - - - - - - - - - - - - 0	
002 - SECONDARY - - - - - - - - - - - - - - 0	
003 - DRIVES - - - - - - - - - - - - - - - - 0	
004 - NARROW STREETS - - - - - - - - - - - 0	Narrow streets in "old town" and casbah areas.
RIR RUNWAY IDENTIFIER REFERENCE	Runway Ident for the runway for which this is an overrun.
000 - CHAR: 3 A/N - - - - - - - - - - - - 0	
RIT ROAD INTERCHANGE TYPE	The type or style of road interchange.
001 - CLOVER LEAF - - - - - - - - - - - - 0	
002 - DIAMOND - - - - - - - - - - - - - - - 0	
011 - OTHER - - - - - - - - - - - - - - - - 0	
RKP ROCK FORMATION TYPE	Structure of the rock formation.
001 - COLUMNAR - - - - - - - - - - - - - - 0	
003 - PINNACLE - - - - - - - - - - - - - - 0	
RKS ROCK SURFACE TYPE	Surface texture of the feature.
004 - ROUGH - - - - - - - - - - - - - - - - 0	
005 - SMOOTH - - - - - - - - - - - - - - - - 0	
RLI RUNWAY LOW END IDENTIFIER LIGHTS	The availability of identifier lights at the low end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - - 0	
RLN REFERENCE POINT LONGITUDE	Longitude coordinate location of the special annotation feature; geodetic or cartometric derived coordinate. Format as DDDMMSSSSH (Degrees, Minutes, Seconds and Hemisphere) with an implied decimal to hundredths of a second. All leading zeroes required.
000 - CHAR: 10 A/N - - - - - - - - - - - - 0	
RLT REFERENCE POINT LATITUDE	Latitude coordinate location of the special annotation feature; geodetic or cartometric derived coordinate. Format as DDMMSSSSH (Degrees, Minutes, Seconds and Hemisphere) with an implied decimal to hundredths of a second. All leading zeroes required.
000 - CHAR: 9 A/N - - - - - - - - - - - - 0	
RMK CATEGORY REMARKS	Pertinent remarks that have not been indicated to DIA in other attributes.
000 - CHAR: 1080 A/N - - - - - - - - - - - 0	

Attributes/Values	# / Definition
RPA REQUIRED FOR PORT ACCESS	An indicator that a water body is used for access to a required port.
001 - ACCESS REQUIRED - - - - - - - - - 0	
002 - ACCESS NOT REQUIRED - - - - - - - 0	
RPD REFERENCE POINT DETERMINATION METHOD	The method used to derive the reference point (RP) of an airport using operational runways.
001 - ONE RUNWAY (RWY) - - - - - - - - - 0	RP is a point in the center of the runway equidistant from either end.
002 - TWO PARALLEL OR NON-CONNECTING SEMI-PARALLEL RWY - - - - - - - 0	RP is the mid-point of a line connecting the center of the runways.
003 - THREE OR MORE PARALLEL OR NON-CONNECTING SEMI-PARALLEL RWY - - 0	RP is the mid-point of a line connecting the mid-points of the lines connecting the centers of the runways.
004 - RWY INTERSECTING AT A SINGLE POINT 0	RP is the point of intersection.
005 - INTERSECTING RWY FORMING ONE OR MORE INTERIOR TRIANGLES - - - - 0	RP is the mean of all interior angle bisectors.
006 - TWO RWY DIVERGING 90 DEGREES OR LESS - - - - - - - - - - - - - - - 0	RP is a point on the angular bisector equidistant between arcs described from the vertex which pass through the center of the runways.
007 - TWO RWY DIVERGING OVER 90 DEGREES 0	RP is a point at the vertex of the angle formed by the two runways.
008 - WIDELY SEPARATED RWY - - - - - - - 0	RP is the centerpoint of a line connecting the nearest ends of the runways.
RPF RUNWAY PATTERN FORMATION	An indication of the presence of single or multiple runways
000 - UNKNOWN TO INCLUDE CLASSIFIED RUNWAYS - - - - - - - - - - - - - 0	
001 - SINGLE RUNWAY PATTERN - - - - - - 0	
002 - MULTILPE RUNWAY PATTERN - - - - - 0	
RPS RAILROAD POWER SOURCE	Type of power source.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - ELECTRIFIED TRACK - - - - - - - - 0	
003 - OVERHEAD ELECTRIFIED - - - - - - - 0	
004 - NON-ELECTRIFIED - - - - - - - - - 0	
RRC RAILROAD /ROAD CATEGORIES	The type of railroad system used to support various transportation uses.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - MAIN LINE /BRANCH LINE - - - - - - 0	
002 - CAR-LINE - - - - - - - - - - - - - 0	Type of inter-urban railroad such as a trolley used for transporting people.
003 - MONORAIL - - - - - - - - - - - - - 0	A railroad system utilizing a single rail.
008 - LOGGING - - - - - - - - - - - - - 0	Railroad system used to transport logs.
013 - MARINE RAILROAD - - - - - - - - - 0	A track, cradle, and winding mechanism for hauling vessels out of the water so that the hull can be exposed, as in a dry dock.
014 - RAILROAD IN ROAD - - - - - - - - - 0	
015 - MAGNETIC LEVITATION - - - - - - - 0	A railroad system utilizating electromagnetic principles to both suspend the railway cars above and to propel them along a guideway (normally either along a trough or raised "T" or "I" rail type track).
RRK RUNWAY REMARKS	Remarks on the runway clearway, to include: percent grooved, construction, operations, etc.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
RRR FACILITY RAILROAD REMARKS	Remarks on railroads accessible to the facility, including: distance/direction to nearest station; gauge /number of tracks; sidings and spurs to what part of facility; current construction and projected improvements.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
RSA RAIL SIDING /SPUR ATTRIBUTE	Type of connecting track.
001 - SPUR - - - - - - - - - - - - - - - 0	A single track which diverges from the main track and leads and terminates at some facility, usually an industrial plant.
002 - SIDING - - - - - - - - - - - - - - 0	A single track, which usually leads to a complex of tracks, connected at one or both ends to the main track, and used for storage or handling of RR cars.
003 - PASSING - - - - - - - - - - - - - - 0	A single track connected to the main track at both ends and used for temporary holding, allowing trains to pass each other.
RSF RADAR SIGNIFICANCE FACTOR	A value based upon the anticipated radar return of various surface materials .
001 - METAL - - - - - - - - - - - - - - - 0	>= 75% metal
002 - PART METAL - - - - - - - - - - - - - 0	>= 40% to < 75% metal
003 - STONE/BRICK - - - - - - - - - - - - 0	>= 75% stone/brick/concrete, or >= 50% to < 75% stone/brick/concrete and < 40% metal
004 - COMPOSITION - - - - - - - - - - - - 0	Composed of a variety of materials with < 75% stone/brick and 0% metal

Attributes/Values	#	/ Definition
RSF RADAR SIGNIFICANCE FACTOR (Cont.)		
005 - EARTHEN WORKS	0	>= 51% of land, soil or ground surface
006 - WATER	0	Surface material is a water area or a well-defined salt or dry lake bed
007 - DESERT/SAND	0	>= 51% of desert/sand characteristics (rock, gravel, and sand); includes sand dunes, sand bars, and mud/ tidal flats
008 - ROCK	0	>= 51% of rock surface characteristics (ridges, rock outcrops, lava, or boulder fields)
009 - CONCRETE	0	>= 51% of ground level concrete; includes airfield runways, taxiways, roads, parking areas, and city squares
010 - SOIL	0	>= 51% of soil surface characteristics; includes bare earth, cultivated ground, croplands, grass, etc.)
011 - MARSH	0	>= 51% of marsh surface characteristic (moist, wet, spongy, low-lying ground) and generally not suitable for cultivation without being drained
012 - TREES	0	>= 51% tree (canopy) cover at peak season
013 - SNOW/ICE	0	>= 51% snow or ice characteristics; includes glaciers, ice fields, ice caps, ice cliffs, shelf ice, pack ice, polar ice pack, and snowfields
014 - ASPHALT	0	>= 51% of ground level asphalt; includes airfield runways, taxiways, roads, parking areas, and city squares)
RSL RUNWAY STRIP LIGHTS		The availability of Runway Strip lights.
000 - UNKNOWN	0	
001 - AVAILABLE	0	
002 - NOT AVAILABLE	0	
RST ROAD/RUNWAY SURFACE TYPE		Physical surface characteristics of feature.
000 - UNKNOWN	0	
001 - HARD SURFACE	0	Roads designed to bear as a minimum fairly heavy loads. Surface of concrete bituminous /asphaltic concrete, paving brick /stone, bitumen penetrated macadam, water bound macadam with asphalt or tar cover.
002 - LOOSE	0	Roads designed to bear light loads.Surface of gravel (or other coarse fragmental material) or natural or stabilized soil with a poor or no foundations; sometimes drained or graded.
003 - LOOSE /LIGHT	0	Roads designed to bear light loads.Surface of water bound macadam, light metal, crushed rock or gravel, or stabilized soil such as sand-clay on a lightfoundation; usually drained and graded.
005 - NATURAL	0	The feature's surface is not prepared and consists primarily of one of the following: coral, grass, gravel, laterite, sand, snow or ice, or water.
006 - PERMANENT	0	The feature's surface is prepared and consists primarily of the following: asphalt, masonry (stone / brick), concrete, bedrock, or bitumen-bound.
007 - TEMPORARY	0	The feature's surface is prepared and consists primarily of the following: clay, coral, earthen, gravel, laterite, macadam, membrane, non-bituminous binding mix-in-place, steel or aluminum plank, or sand.
RSU ROOF SUPERSTRUCTURE CATEGORY		Structures extending upward from the roof.
002 - DOME	0	
003 - STEEPLE	0	
004 - CUPOLA	0	A small, usually dome-shaped, structure on a roof.
005 - TOWER	0	Any tall, narrow structure on the roof of a building.
006 - MINARET	0	
RTA RAILROAD TRACK ARRANGEMENT		The arrangement of trackage on a single railroad bed including both directions.
000 - UNKNOWN	0	Can not be determined.
001 - SINGLE	0	One set of tracks.
002 - DOUBLE	0	Two sets of tracks on the same roadbed.
003 - MULTIPLE	0	Three or more sets of tracks on the same roadbed.
004 - JUXTAPOSITION	0	Two railroads closely spaced but on separate roadbeds.
RTH RUNWAY TRUE HEADING		True heading of the runway which uses this feature.
		Increment: 0.1 Degree Limits: N/A Variance: N/A
Range: 0.1...360.0		
RTT ROUTE TYPE ATTRIBUTE		Intended use or type of route.
002 - RECOMMENDED TRACK FOR OTHER THAN DEEP DRAFT VESSELS	0	
003 - RECOMMENDED TRACK FOR DEEP DRAFT VESSELS	0	A track or line which a deep draft vessel must stay on to pass through a dangerous area.
004 - DEEP WATER ROUTE	0	An area in which it is safe to navigate a deep draft vessel.
005 - RECOMMENDED ROUTE	0	A route, such as a transit route, of undefined width, often marked by centerline buoys. In contrast to recommended tracks, there is usually ample sea room for vessels to keep to the right of the centerline at all times.

Attributes/Values	# / Definition
RTT ROUTE TYPE ATTRIBUTE (Cont.)	
006 - RECOMMENDED DIRECTION OF TRAFFIC FLOW - - - - - - - - - - - - - - - - 0	
007 - TWO WAY ROUTE - - - - - - - - - - - - 0	
008 - MINESWEPT CHANNEL - - - - - - - - - 1	A path through a minefield or former minefield that has been cleared of mines.
RVT REVETMENT TYPE	Type of revetment at the air facility.
001 - C - - - - - - - - - - - - - - - - - 0	Covered
002 - O - - - - - - - - - - - - - - - - - 0	Open
SS1 SECTOR ANGLE (1)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (First occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS2 SECTOR ANGLE (2)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Second occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS3 SECTOR ANGLE (3)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Third occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS4 SECTOR ANGLE (4)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fourth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS5 SECTOR ANGLE (5)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fifth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS6 SECTOR ANGLE (6)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Sixth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS7 SECTOR ANGLE (7)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Seventh occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS8 SECTOR ANGLE (8)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eighth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
SS9 SECTOR ANGLE (9)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Ninth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S60 SECTOR ANGLE (10)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Tenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S61 SECTOR ANGLE (11)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eleventh occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S62 SECTOR ANGLE (12)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in deg rees and tenths (i.e. 003.5-010.2) (Twelfth occurrence).

Attributes/Values	# / Definition
S62 SECTOR ANGLE (12) (Cont.)	
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S63 SECTOR ANGLE (13)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Thirteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S64 SECTOR ANGLE (14)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fourteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S65 SECTOR ANGLE (15)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Fifteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S66 SECTOR ANGLE (16)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Sixteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S67 SECTOR ANGLE (17)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Seventeenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S68 SECTOR ANGLE (18)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Eighteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S69 SECTOR ANGLE (19)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Nineteenth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S70 SECTOR ANGLE (20)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twentieth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S71 SECTOR ANGLE (21)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-first occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S72 SECTOR ANGLE (22)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-second occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S73 SECTOR ANGLE (23)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-third occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S74 SECTOR ANGLE (24)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-fourth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	
S75 SECTOR ANGLE (25)	The initial and terminal limits of a sector at a light. The value is a two number set of bearings defining a light sector. Bearings are expressed in degrees and tenths (i.e. 003.5-010.2) (Twenty-fifth occurrence).
000 - ANY SET OF BEARINGS - - - - - - - - 0	

Attributes/Values	# / Definition
SBC SHELTER BELT CONDITION	Indicates whether a linear stand of trees functions as a shelter belt, protecting roadways, railroads, cropland, construction, etc., from the effects of adverse weather.
001 - FUNCTIONS AS A SHELTER BELT. - - - 0	
002 - DOES NOT FUNCTION AS A SHELTER BELT. - - - - - - - - - - - - - 0	
SCA SURFACE CONDITION ATTRIBUTE	Quality of the feature surface.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - GOOD - - - - - - - - - - - - - - - 0	No cracks or potholes.
002 - FAIR - - - - - - - - - - - - - - - 0	Some cracks or potholes.
003 - POOR - - - - - - - - - - - - - - - 0	Extensive cracks or potholes.
SCC SPRING /WELL CHARACTERISTIC CATEGORY	Type of available water.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - ALKALINE - - - - - - - - - - - - - 0	
002 - NOT APPLICABLE - - - - - - - - - - 0	
004 - MINERAL - - - - - - - - - - - - - 0	Undrinkable mineral content.
009 - FRESHWATER - - - - - - - - - - - - 0	Potable water content
SD1 STEM DIAMETER SIZE RANGE (1)	Estimated range (3) of the average stem diameter size within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - > 0 AND <= 5.00 - - - - - - - - - - 0	
002 - > 5.00 AND <= 10.00 - - - - - - - - 0	
003 - > 10.00 AND <= 20.00 - - - - - - - - 0	
004 - > 20.00 AND <= 30.00 - - - - - - - - 0	
005 - > 30.00 AND <= 40.00 - - - - - - - - 0	
006 - > 40.00 AND <= 60.00 - - - - - - - - 0	
007 - > 60.00 - - - - - - - - - - - - - - 0	
SD2 STEM DIAMETER SIZE RANGE (2)	Estimated range (2) of the average stem diameter within area of feature, determined in centimeter ranges at a distance of 1.4 meter above the ground.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - > 0 AND <= 10.00 - - - - - - - - - 0	
002 - > 10.00 AND <= 30.00 - - - - - - - - 0	
003 - > 30.00 AND <= 60.00 - - - - - - - - 0	
004 - > 60.00 - - - - - - - - - - - - - - 0	
005 - NOT APPLICABLE - - - - - - - - - - 0	
SD3 STEM DIAMETER SIZE RANGE (3)	Estimated range (3) of the average stem diameter within area of feature, determined in centimeter (0.01 meter) ranges at a distance of 1.4 meters above the ground.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - > 0 AND <= 2.00 - - - - - - - - - - 0	
002 - > 2.00 AND <= 4.00 - - - - - - - - - 0	
003 - > 4.00 AND <= 6.00 - - - - - - - - - 0	
004 - > 6.00 AND <= 8.00 - - - - - - - - - 0	
005 - > 8.00 AND <= 10.00 - - - - - - - - 0	
006 - > 10.00 AND <= 12.00 - - - - - - - - 0	
007 - > 12.00 AND <= 15.00 - - - - - - - - 0	
008 - > 15.00 AND <= 20.00 - - - - - - - - 0	
009 - > 20.00 AND <= 25.00 - - - - - - - - 0	
010 - > 25.00 AND <= 30.00 - - - - - - - - 0	
011 - > 30.00 AND <= 40.00 - - - - - - - - 0	
012 - > 40.00 AND <= 50.00 - - - - - - - - 0	
013 - > 50.00 AND <= 60.00 - - - - - - - - 0	
014 - > 60.00 AND <= 80.00 - - - - - - - - 0	
015 - > 80.00 AND <= 100.00 - - - - - - - - 0	
016 - > 100.00 - - - - - - - - - - - - - 0	
017 - NOT APPLICABLE - - - - - - - - - - 0	
SDC SURFICIAL MATERIAL DEPTH CATEGORY	Estimated general depth of soil or unconsolidated surface material, expressed in .5 meter increments.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - < 0.5 - - - - - - - - - - - - - - 0	
002 - >= 0.5 - - - - - - - - - - - - - - 0	
SDO SAND DUNE ORIENTATION	Characteristic alignment of the dune as caused by the prevailing winds.
	Increment: 5 Degrees Limits: Measured in the downwind direction from true north. Variance: N/A
Range: 0...359	
SDR SEWAGE DISPOSAL REMARKS	Remarks on sewage disposal capabilities at the aircraft facility, to include: capacity per day in gallons, method of disposal (cesspool, chemical processing, direct drainage into a river, on land, or into the sea), outhouses, flush toilets, or slit trenches.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	

Attributes/Values	# / Definition
SDS STEM DIAMETER SIZE	Average stem diameter at breast height (dbh, approximately 1.37 meters above ground) of the trees within area of feature.
	Increment: 0.01 Meter Limits: Average of measured, estimated, and/or calculated horizontal tree diameters at breast height (dbh) within mapped area. Variance: For trees <= 2 meters high measurement is taken half way up stem.
Range: > 0...No Upper Limit	
SEA SEA STATE	A property of large bodies of water characterized by tidal conditions, swells, or high heavy wave action. The condition can apply to both fresh and salt water.
001 - NON-SEA STATE - - - - - - - - - - - 0	
002 - SEA STATE - - - - - - - - - - - - 0	
SEP SEPARATION CATEGORY	Indicates whether the road centerlines are separated by more than (or equal to) or less than 75 meters.
001 - NOT SEPARATED - - - - - - - - - - 0	Connecting, adjacent, and 2way road centerlines having no median, or having divided roadbeds separated by a distance < 75 m.
002 - SEPARATED - - - - - - - - - - - - 0	Connecting, adjacent, and 2 way road centerlines having divided roadbeds separated by a distance >= 75 m.
SFC SEA FLOOR FEATURE CATEGORY	Type of object or area on the sea floor or below the water surface.
001 - UNKNOWN (OBSTRUCTION) - - - - - - 0	
002 - OTHER - - - - - - - - - - - - - - 0	
003 - FISH HAVEN - - - - - - - - - - - - 0	
004 - WELL - - - - - - - - - - - - - - 0	
005 - SUBMERGED PRODUCTION PLATFORM - - 0	
SGC SLOPE /GRADIENT CATEGORY	The maximum percentage of incline from the horizontaql plane..
	Increment: 1 Percent Limits: Measured at right angle to vertex line. Variance: N/A
Range: 0...No Upper Limit	
SHA SOUNDING HORIZONTAL ACCURACY CODE	The Navigation System Evaluation Code.
000 - 0 - UNKNOWN - - - - - - - - - - - 0	
001 - 1 - BEST - - - - - - - - - - - - - 0	
002 - 2 - GOOD - - - - - - - - - - - - - 0	
003 - 3 - FAIR - - - - - - - - - - - - - 0	
004 - 4 - POOR - - - - - - - - - - - - - 0	
SHC SAFE HORIZONTAL CLEARANCE	Minimum horizontal clearance passing under a bridge span.
	Increment: 0.1 Meter Limits: Distance between adjacent bridge supports spanning a navigable channel. Variance: N/A
Default:0=Unknown 998=Not applicable Range: 0.1...997.9	
SIC SNOW /ICE CATEGORY	Indicates the composition of the feature.
001 - SNOW - - - - - - - - - - - - - - - 0	
002 - ICE - - - - - - - - - - - - - - - - 0	
SIT SHED IDENTIFIER TYPE	Type of shed.
001 - SNOW - - - - - - - - - - - - - - - 0	
002 - ROCK - - - - - - - - - - - - - - - 0	
003 - GALLERY - - - - - - - - - - - - - 1	
SL1 SLOPE GRADIENT LEFT (1)	Predominant slope range (1) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - <= 30 - - - - - - - - - - - - - - 0	
002 - > 30 AND <= 45 - - - - - - - - - - 0	
003 - > 45 AND <= 60 - - - - - - - - - - 0	
004 - > 60 - - - - - - - - - - - - - - - 0	
SL2 SLOPE GRADIENT LEFT (2)	Predominant slope range (2) of the left bank (facing downstream) in percent, measured from mean water level to the first accessible break in slope above the mean water level.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - <= 60 - - - - - - - - - - - - - - 0	
002 - > 60 - - - - - - - - - - - - - - - 0	

Attributes/Values	# / Definition
SLT SHORELINE TYPE CATEGORY	The physical characteristic of the shoreline area.
006 - MANGROVE /NIPA - - - - - - - - - - - 0	
008 - MARSH, SWAMP - - - - - - - - - - - - 0	
010 - ROCKY - - - - - - - - - - - - - - - 0	
011 - RUBBLE - - - - - - - - - - - - - - - 0	
013 - SANDY - - - - - - - - - - - - - - - 0	
014 - STONY, SHINGLY - - - - - - - - - - - 0	
015 - OTHER - - - - - - - - - - - - - - - 0	
SNC SOUNDING SECURITY CLASSIFICATION CODE	Security classification of the sounding information for this source.
001 - U - - - - - - - - - - - - - - - - - 0	
002 - C - - - - - - - - - - - - - - - - - 0	
003 - S - - - - - - - - - - - - - - - - - 0	
004 - FOR OFFICIAL USE ONLY - - - - - - - 0	
005 - RESTRICTED - - - - - - - - - - - - 0	
006 - TOP SECRET - - - - - - - - - - - - 0	
007 - CNP - - - - - - - - - - - - - - - - 0	
008 - CNR - - - - - - - - - - - - - - - - 0	
009 - SEB - - - - - - - - - - - - - - - - 0	
010 - SNG - - - - - - - - - - - - - - - - 0	
011 - SNV - - - - - - - - - - - - - - - - 0	
012 - SNP - - - - - - - - - - - - - - - - 0	
013 - SNN - - - - - - - - - - - - - - - - 0	
014 - UDS - - - - - - - - - - - - - - - - 0	
SND SOUNDING CATEGORY	Type of sounding.
001 - DRYING HEIGHT (VERTICAL) - - - - - - 0	
002 - NO BOTTOM FOUND (VERTICAL) - - - - - 0	
004 - SLANT - - - - - - - - - - - - - - - 0	
006 - ORDINARY (VERTICAL) - - - - - - - - 0	
007 - DOUBTFUL SOUNDING (VERTICAL) - - - - 0	Sounding where depth may be less than indicated, but the position is not in doubt.
008 - DRYING HEIGHT (SLANT) - - - - - - - 0	
009 - NO BOTTOM (SLANT) - - - - - - - - - 0	
010 - DOUBTFUL (SLANT) - - - - - - - - - - 0	
SOC SAFE OVERHEAD CLEARANCE	Minimum clearance for passing underneath the feature.
	Increment: 0.1 Meter Limits: Measured from water surface (at high water) to lowest portion of overhead obstruction, minus a safety factor Variance: N/A
Default:0=Unknown 998=Not applicable Range: 0.1...997.9	
SOG STATE OF THE GROUND	Typical condition of the soil.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - DRY - - - - - - - - - - - - - - - - 0	
002 - MOIST - - - - - - - - - - - - - - - 0	
003 - WET - - - - - - - - - - - - - - - - 0	
004 - FROZEN - - - - - - - - - - - - - - - 0	
SON SEVERITY OF HAZARD	Severity of hazard to surface navigation.
001 - DANGEROUS - - - - - - - - - - - - - 0	<= 30 meters deep, or other indication of danger, usually with blue tint
002 - NON-DANGEROUS - - - - - - - - - - - 0	> 30 meters deep, or absence of any indication of danger or blue tint
SPL ANNOTATION SALIENT PHYSICAL DESCRIPTION	Annotation Physical Text Description.
000 - CHAR: 510 A/N - - - - - - - - - - - 0	
SPR SLOPE POLYGON RANGE	Range indicating the slope of ground within delineated area of feature, reported in percent.
000 - <= 3 - - - - - - - - - - - - - - - - 0	
001 - > 3 AND <= 10 - - - - - - - - - - - 0	
002 - > 10 AND <= 15 - - - - - - - - - - - 0	
003 - > 15 AND <= 20 - - - - - - - - - - - 0	
004 - > 20 AND <= 30 - - - - - - - - - - - 0	
005 - > 30 AND <= 45 - - - - - - - - - - - 0	
006 - > 45 AND <= 60 - - - - - - - - - - - 0	
007 - > 60 AND <= 85 - - - - - - - - - - - 0	
008 - > 85 - - - - - - - - - - - - - - - - 0	
009 - NATURALLY AND/OR CULTURALLY DISSECTED LAND (0 TO > 60) - - - 0	
SPV SPECIAL PURPOSE VEHICLE TYPE	Description of equipment specialty.
001 - WRECK REMOVAL ASSOCIATED - - - - - - 0	
002 - CRASH REMOVAL ASSOCIATED - - - - - - 0	
003 - SNOW REMOVAL ASSOCIATED - - - - - - 0	
004 - WRECK REMOVAL MAIN STORAGE SITE - - 0	
005 - CRASH REMOVAL MAIN STORAGE SITE - - 0	
006 - SNOW REMOVAL MAIN STORAGE SITE - - 0	
SR1 SLOPE GRADIENT RIGHT (1)	Predominant slope range (1) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.

Attributes/Values	# / Definition
SR1 SLOPE GRADIENT RIGHT (1) (Cont.)	
000 - UNKNOWN	0
001 - <= 30	0
002 - > 30 AND <= 45	0
003 - > 45 AND <= 60	0
004 - > 60	0
SR2 SLOPE GRADIENT RIGHT (2)	Predominant slope range (2) of the right bank (facing downstream) in percent, measured from mean water level to the top of the first accessible break in slope above the mean water level.
000 - UNKNOWN	0
001 - <= 60	0
002 - > 60	0
SRD SURFACE ROUGHNESS DESCRIPTION	Description of microrelief and ground surface characteristics that affect cross country movement during military operations.
000 - UNKNOWN	0
001 - NO SURFACE ROUGHNESS EFFECT	0
002 - AREA OF HIGH LANDSLIDE POTENTIAL	0
003 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
004 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
005 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
006 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
007 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
008 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
009 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
010 - ANY STANDARDIZED/RESERVED DESCRIPTION	0
011 - SURFACE OF NUMEROUS COBBLES AND BOULDERS	0
012 - AREAS OF STONY TERRAIN	0
013 - STONY SOIL WITH SURFACE ROCK	0
014 - STONY SOIL WITH SCATTERED BOULDERS	0
015 - STONY SOIL WITH NUMEROUS BOULDERS	0
016 - NUMEROUS BOULDERS	0
017 - NUMEROUS ROCK OUTCROPS	0
018 - AREA OF SCATTERED BOULDERS	0
019 - TALUS SLOPE	0
020 - BOULDER FIELD	0
021 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
022 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
023 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
024 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
025 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
026 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
027 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
028 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
029 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
030 - ANY NATURAL IRREGULARITIES DESCRIPTION	0
031 - HIGHLY FRACTURED ROCK SURFACE	0
032 - WEATHERED LAVA FLOWS	0
033 - UNWEATHERED LAVA FLOWS	0
034 - STONY SOIL WITH NUMEROUS ROCK OUTCROPS	0
035 - IRREGULAR SURFACE WITH DEEP FRACTURES OF FOLIATION	0
036 - RUGGED TERRAIN WITH NUMEROUS ROCK OUTCROPS	0
037 - RUGGED BEDROCK SURFACE	0
038 - SAND DUNES	0
039 - SAND DUNES/LOW	0
040 - SAND DUNES/HIGH	0
041 - ACTIVE SAND DUNES	0
042 - STABILIZED SAND DUNES	0
043 - HIGHLY DISTORTED AREA, SHARP ROCKY RIDGES	0
044 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
045 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
046 - ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0

Attributes/Values — $ / Definition

SRD SURFACE ROUGHNESS DESCRIPTION (Cont.)

047 -	ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
048 -	ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
049 -	ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
050 -	ANY BEDROCK/EXPOSED SURFACE MATERIAL DESCRIPTION	0
051 -	STONY SOIL CUT BY NUMEROUS GULLIES	0
052 -	MODERATELY DISSECTED TERRAIN	0
053 -	MODERATELY DISSECTED TERRAIN WITH SCATTERED ROCK OUTCROPS	0
054 -	DISSECTED FLOODPLAIN	0
055 -	HIGHLY DISSECTED TERRAIN	0
056 -	AREA WITH DEEP EROSIONAL GULLIES	0
057 -	STEEP, RUGGED, DISSECTED TERRAIN WITH NARROW GULLIES	0
058 -	KARST/AREAS OF NUMEROUS SINKHOLES AND SOLUTION VALLEYS	0
059 -	KARST/AREA OF NUMEROUS SINKHOLES	0
060 -	KARST/HUMMOCKY TERRAIN COVERED WITH LARGE CONICAL HILLS	0
061 -	KARST/HUMMOCKY TERRAIN COVERED WITH LOW, BROAD-BASED MOUNDS	0
062 -	ARROYO/WADI/WASH	0
063 -	PLAYA/DRY LAKE	0
064 -	AREA OF NUMEROUS MEANDER SCARS AND/OR OXBOW LAKES	0
065 -	SOLIFLUCTION LOBES AND FROST SCARS	0
066 -	HUMMOCKY GROUND, AREAS OF FROST HEAVING	0
067 -	AREA OF FROST POLYGONS	0
068 -	AREA CONTAINING SABKHAS	0
069 -	AREA OF NUMEROUS SMALL LAKES/PONDS	0
070 -	AREA OF NUMEROUS CREVASSES	0
071 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
072 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
073 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
074 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
075 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
076 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
077 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
078 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
079 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
080 -	ANY FLUVIAL/GLACIAL DESCRIPTION	0
081 -	AREA OF NUMEROUS TERRACES	0
082 -	QUARRIES	0
083 -	STRIP MINES	0
084 -	QUARRY/GRAVEL PIT	0
085 -	QUARRY/SAND PIT	0
086 -	MINE TAILINGS/WASTE PILES	0
087 -	SALT EVAPORATORS	0
088 -	AREA OF NUMEROUS DIKES	0
089 -	AREA OF NUMEROUS DIKED FIELDS	0
090 -	AREA OF NUMEROUS FENCES	0
091 -	AREA OF NUMEROUS STONE WALLS	0
092 -	AREA OF NUMEROUS MAN-MADE CANALS/DRAINS/DITCHES	0
093 -	AREA OF NUMEROUS TERRACED FIELDS	0
094 -	PARALLEL EARTHEN MOUNDS (NON CROPS)	0
095 -	AREA OF NUMEROUS HEDGEROWS	0
096 -	ANY CULTURAL DESCRIPTION	0
097 -	ANY CULTURAL DESCRIPTION	0
098 -	ANY CULTURAL DESCRIPTION	0
099 -	ANY CULTURAL DESCRIPTION	0
100 -	ANY CULTURAL DESCRIPTION	0
101 -	ANY DESCRIPTION	0
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123 -	ANY DESCRIPTION	0
124 -	ANY DESCRIPTION	0
125 -	ANY DESCRIPTION	0
126 -	ANY DESCRIPTION	0

Attributes/Values # / Definition

SRD SURFACE ROUGHNESS DESCRIPTION (Cont.)

127 -	ANY DESCRIPTION	0
128 -	ANY DESCRIPTION	0
129 -	ANY DESCRIPTION	0
130 -	ANY DESCRIPTION	0
131 -	ANY DESCRIPTION	0
132 -	ANY DESCRIPTION	0
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212 -	ANY DESCRIPTION	0
213 -	ANY DESCRIPTION	0
214 -	ANY DESCRIPTION	0
215 -	ANY DESCRIPTION	0
216 -	ANY DESCRIPTION	0
217 -	ANY DESCRIPTION	0
218 -	ANY DESCRIPTION	0

Attributes/Values		# / Definition
SRD	SURFACE ROUGHNESS DESCRIPTION (Cont.)	
219	ANY DESCRIPTION	0
220	ANY DESCRIPTION	0
221	ANY DESCRIPTION	0
222	ANY DESCRIPTION	0
223	ANY DESCRIPTION	0
224	ANY DESCRIPTION	0
225	ANY DESCRIPTION	0
226	ANY DESCRIPTION	0
227	ANY DESCRIPTION	0
228	ANY DESCRIPTION	0
229	ANY DESCRIPTION	0
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292	ANY DESCRIPTION	0
293	ANY DESCRIPTION	0
294	ANY DESCRIPTION	0
295	ANY DESCRIPTION	0
296	ANY DESCRIPTION	0
297	ANY DESCRIPTION	0
298	ANY DESCRIPTION	0
299	ANY DESCRIPTION	0
300	ANY DESCRIPTION	0
SRQ	SURFACE ROUGHNESS QUALIFIER	A code which relates a surface material mapping unit to a Surface Roughness Description (SRD) value.
000	ANY NUMBER	0
SSC	STRUCTURE SHAPE CATEGORY	Shape, appearance, or configuration of the feature.
000	UNKNOWN	0
001	NOT APPLICABLE	0

Attributes/Values	# / Definition
SSC STRUCTURE SHAPE CATEGORY (Cont.)	
002 - BLIMP	0 An elongated horizontal tank rounded at both ends.
002 - BLIMP	1
004 - BULLET	0 An elongated vertical tank rounded at both ends.
004 - BULLET	1
007 - CYLINDRICAL (UPRIGHT) (CAN)	0
012 - PYRAMID	0
015 - SOLID	0 No openings in structure.
017 - SPHERICAL	0
018 - TRUSS	0 Having a lattice framework.
022 - CRESCENT	0
024 - ENCLOSED	0
024 - ENCLOSED	1 Athletic field is completely surrounded by seating..
026 - LATERAL	0
027 - MOUND	0
028 - RIPPLE	0
029 - STAR	0
030 - TRANSVERSE	0
040 - DOME	0 Facility is covered by a domed roof.
046 - OPEN	0
046 - OPEN	1 Athletic field is partially surrounded by seating..
052 - 'A' FRAME	0
053 - 'H' FRAME	0
054 - 'I' FRAME	0
056 - 'Y' FRAME	0
059 - TELESCOPING GASHOLDER (GASOMETER)	0
070 - OTHER	0
076 - ARCH	0
077 - OBELISK	0
079 - OTHER	0
080 - PILLAR BUOY (OPEN)	0
081 - PILLAR BUOY (FILLED)	0
082 - PILLAR BUOY (VERTICAL STRIPES)	0
083 - SPAR BUOY	0
084 - CAN BUOY (OPEN)	0
085 - CAN BUOY (FILLED)	0
086 - CONE BUOY (OPEN)	0
087 - CONE BUOY (FILLED)	0
088 - SPHERICAL BUOY (VERTICAL STRIPES)	0
089 - SPHERICAL BUOY	0
090 - SUPERBUOY (ODAS)	0
091 - SUPERBUOY (LANBY)	0
092 - SUPERBUOY (TANKER)	0
093 - LIGHTSHIP	0
094 - LIGHTFLOAT (OPEN)	0
095 - BARREL /TONNE BUOY	0
096 - MOORING BUOY	0
097 - DIAMOND-SHAPED BUOY	0
098 - ARTICULATED LIGHT	0
099 - MAST	0
100 - TOWER	0
101 - SCANNER	0
102 - LIGHTFLOAT (FILLED)	0
103 - Y (PORT)	0
104 - ARROW (STARBOARD)	0
105 - LATTICE	0
SSF SONAR SIGNIFICANCE FACTOR	Indicates whether the feature has been confirmed by sonar.
001 - SONAR CONFIRMED	0
002 - NOT SONAR CONFIRMED	0
SSI SOUNDING SOURCE ID	The Bathymetric Document ID combined with the Sheet ID.
000 - CHAR: 24 A/N	0
SSR STRUCTURE SHAPE OF ROOF	Roof shape.
000 - UNKNOWN	0
038 - CURVED (CONVEX)	0
040 - DOME	0
041 - FLAT	0
042 - GABLE (PITCHED)	0
047 - SAWTOOTH	0
055 - FLAT WITH MONITOR	0 Having a raised portion used to provide light or air.
064 - GABLE WITH MONITOR	0 Having a raised portion used to provide light or air.
070 - OTHER	0
SST SOUND SIGNAL TYPE	The type of audible fog signal.
000 - UNKNOWN	0
001 - BELL (BELL)	0
002 - WHISTLE (WHIS)	0
003 - HORN (HORN)	0
004 - GONG (GONG)	0
005 - DIAPHONE (DIA)	0
006 - SIREN (SIREN)	0
007 - REED (REED)	0
008 - EXPLOSIVE (EXPLOS)	0
016 - NONE	0
STC SOIL TYPE CATEGORY	Soil material described by the Unified Soil Classification System.

Attributes/Values	#	/ Definition
STC SOIL TYPE CATEGORY (Cont.)		
000 - UNKNOWN	0	
001 - GW	0	Well-graded gravels or gravel-sand mixtures, little or no fines.
002 - GP	0	Poorly graded gravels or gravel-sand mixtures, little or no fines.
003 - GM	0	Silty gravels, gravel-sand-silt mixtures.
004 - GC	0	Clayey gravels, gravel-sand-clay mixtures.
005 - SW	0	Well-graded sand or gravelly sands, little or no fines.
006 - SP	0	Poorly graded sands or gravelly sands, little or no fines.
007 - SM	0	Silty sands, sand-silt mixtures.
008 - SC	0	Clayey sands, sand-clay mixtures.
009 - ML	0	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.
010 - CL	0	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
011 - OL	0	Organic silts and organic silty clays of low plasticity.
012 - CH	0	Inorganic clays of high plasticity, fat clays.
013 - MH	0	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
014 - OH	0	Organic clays of medium to high plasticity, organic silts.
015 - PT	0	Peat and other highly organic soils.
016 - OTHER	0	
017 - ML-CL	0	Boundary soil classification having characteristics of both ML and CL soil type.
018 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
019 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
020 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
021 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
022 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
023 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
024 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
025 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
026 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
027 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
028 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
029 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
030 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
031 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
032 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
033 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
034 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
035 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
036 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
037 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
038 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
039 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
040 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
041 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
042 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
043 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
044 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
045 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
046 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
047 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
048 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
049 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	

Attributes/Values # / Definition

STC SOIL TYPE CATEGORY (Cont.)

050 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
051 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
052 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
053 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
054 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
055 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
056 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
057 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
058 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
059 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
060 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
061 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
062 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
063 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
064 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
065 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
066 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
067 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
068 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
069 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0
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095 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - - 0

Attributes/Values	$ / Definition
STC SOIL TYPE CATEGORY (Cont.)	
096 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - 0	
097 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - 0	
098 - OPEN FIELDS FOR INTERACTIVE DEFINITION - - - - - - - - - - - 0	
099 - NOT EVALUATED - - - - - - - - - - 0	Area where construction or development precludes evaluation of natural surface materials.
STD SOUNDING TEXTUAL DESCRIPTION	Added description of a sounding.
000 - CHAR: 256 A/N - - - - - - - - - - 0	
STG SOIL TRAFFICABILITY GROUP	Soils described by the Unified Soil Classification System categorized by their wet weather trafficability characteristics.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - A - - - - - - - - - - - - - - - 0	GW,GP,SW,SP
002 - B - - - - - - - - - - - - - - - 0	CH
003 - C - - - - - - - - - - - - - - - 0	GC,SC,CL
004 - D - - - - - - - - - - - - - - - 0	GM,SM,ML,ML-CL,MH,OL,OH
005 - E - - - - - - - - - - - - - - - 0	PT
006 - X - - - - - - - - - - - - - - - 0	Not Evaluated
STL SEASONAL TENT LOCATION	The seasonal habitat location of nomadic people.
000 - UNKNOWN - - - - - - - - - - - - 0	Seasonal nature of location cannot be determined.
001 - WINTER LOCATION - - - - - - - - - 0	Permanent seasonal winter tent site.
002 - SUMMER LOCATION - - - - - - - - - 0	Permanent seasonal summer tent site.
STN MARITIME STATION TYPE	The type of maritime station.
001 - COAST GUARD - - - - - - - - - - - 0	
002 - FIREBOAT - - - - - - - - - - - - 0	
003 - MARINE POLICE - - - - - - - - - - 0	
004 - RESCUE - - - - - - - - - - - - - 0	
005 - PILOT (ON LAND) - - - - - - - - - 0	
006 - PORT CONTROL - - - - - - - - - - 0	
007 - SIGNAL (UNSPECIFIED) - - - - - - - 0	
008 - ICE SIGNAL - - - - - - - - - - - 0	
009 - STORM SIGNAL - - - - - - - - - - 0	
010 - WEATHER SIGNAL - - - - - - - - - 0	
011 - TIDAL CURRENT SIGNAL - - - - - - - 0	
012 - TIDE SIGNAL - - - - - - - - - - - 0	
013 - TIME SIGNAL - - - - - - - - - - - 0	
014 - MARINE TRAFFIC SIGNAL - - - - - - 0	
015 - BRIDGE SIGNAL - - - - - - - - - - 0	
016 - LOCK SIGNAL - - - - - - - - - - - 0	
017 - FOG SIGNAL - - - - - - - - - - - - 0	
018 - INTERNATIONAL PORT SIGNALS - - - - 0	
019 - FIRING PRACTICE SIGNAL STATION - - 0	
020 - RADAR SURVEILLANCE STATION - - - - 0	
021 - PILOT LOOKOUT STATION - - - - - - 0	
STR SUMMER TREE COVER DENSITY CODE	Coded value indicating percent of summer canopy closure within delineated area of feature.
001 - <= 25 - - - - - - - - - - - - - - 0	
002 - > 25 AND <= 50 - - - - - - - - - - 0	
003 - > 50 AND <= 75 - - - - - - - - - - 0	
004 - > 75 - - - - - - - - - - - - - - 0	
005 - NOT APPLICABLE - - - - - - - - - - 0	
STT STRUCTURE SHAPE OF TANK TOP	The shape of the tank top.
065 - CYLINDRICAL W/FLAT TOP - - - - - - 0	
066 - CYLINDRICAL W/DOME TOP - - - - - - 0	
071 - CYLINDRICAL W/PEAK - - - - - - - - 0	
072 - OTHER - - - - - - - - - - - - - - 0	
077 - CYLINDRICAL WITH PEAK TOP - - - - - 0	
078 - NOT APPLICABLE - - - - - - - - - - 0	
079 - NON-CYLINDRICAL - - - - - - - - - 0	
SUR AIRCRAFT STARTING UNITS REMARKS	The type and quantity of aircraft starting units available at this aircraft facility.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
SVA SOUNDING VERTICAL ACCURACY CODE	The Depth Recorder Evaluation Code.
000 - O - UNKNOWN - - - - - - - - - - - 0	
001 - A - BEST - - - - - - - - - - - - - 0	
002 - B - GOOD - - - - - - - - - - - - - 0	
003 - C - FAIR - - - - - - - - - - - - - 0	
004 - D - POOR - - - - - - - - - - - - - 0	
SVC SOUNDING VELOCITY	Value added to or subtracted from instrument reading to obtain correct depth .
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - 4800 FT /SEC CALIBRATION - - - - - - 0	

Attributes/Values	# / Definition
SVC SOUNDING VELOCITY (Cont.)	
002 - 1500 METER /SEC CALIBRATION - - - 0	
003 - MATHEMS TABLES (NP 139) CORRECTED 0	
004 - SVM CORRECTED - - - - - - - - - - 0	
005 - OTHER CALIBRATION - - - - - - - - 0	
SVR SPECIAL PURPOSE VEHICLE REMARKS	Remarks on the quantities and types of special purpose vehicles, including: 1) snow removers; 2) wreck removers, quantities and types of wreckers, cranes, hoists, crash dollies, etc.; or 3) crash removers, quantities and types of crash equipment and rescue vehicles.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
TO1 REFUELING UNITS TYPE	The methods /units available for dispensing the designated fuel.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - C - - - - - - - - - - - - - - - - 0	Truck
002 - M - - - - - - - - - - - - - - - - 0	Manual
003 - H - - - - - - - - - - - - - - - - 0	Hydrant
004 - NOT APPLICABLE - - - - - - - - - - 0	
TDT TERRAIN OR DRAINAGE TYPE	Brief description of the terrain and drainage feature.
001 - RIVER /LAKE - - - - - - - - - - - 0	
002 - TERRAIN - - - - - - - - - - - - - 0	
003 - OTHER - - - - - - - - - - - - - - 0	
TEL TELECOMMUNICATIONS TYPE	
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - TELEPHONE - - - - - - - - - - - - 0	
002 - TELEGRAPH - - - - - - - - - - - - 0	
TID TIDAL /NON-TIDAL CATEGORY	Identifies whether a feature is affected by tidal water.
001 - NON-TIDAL - - - - - - - - - - - - 0	
002 - TIDAL /TIDAL FLUCTUATING - - - - - 0	
TIM TIME ATTRIBUTE	The time, expressed in hours of duration, for which an activity is permitted .
000 - ANY NUMBER OF HOURS - - - - - - - 0	
TLA TAXIWAY LIGHTING AVAILABILITY	Availability of taxiway lights.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - 0	
TMC TOPMARK CATEGORY	The type of mark atop a feature. Topmarks are symbols which convey significant information about surrounding waters or features.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - CAN (OPEN) - - - - - - - - - - - - 0	
002 - CONE, POINT UP (OPEN) - - - - - - - 0	
003 - CAN (FILLED) - - - - - - - - - - - 0	
004 - CONE, POINT UP (FILLED) - - - - - - 0	
005 - "X" - - - - - - - - - - - - - - - 0	
006 - BALL (OPEN) - - - - - - - - - - - 0	
007 - DOUBLE BALL (FILLED) - - - - - - - 0	
008 - DOUBLE CONE, POINTS UPWARD (FILLED) 0	
009 - DOUBLE CONE, POINTS APART (FILLED) 0	
010 - DOUBLE CONE, POINTS DOWNWARD (FILLED) - - - - - - - - - - - - - 0	
011 - DOUBLE CONE, POINTS TOGETHER (FILLED) - - - - - - - - - - - - - 0	
012 - DIAMOND (OPEN) - - - - - - - - - - 0	
013 - DIAMOND (FILLED) - - - - - - - - - 0	
014 - CONE, POINT UP, OVER BALL (OPEN) - 0	
015 - CONE, POINT UP, OVER BALL (FILLED) 0	
016 - BALL OVER CONE, POINT UP (OPEN) - 0	
017 - BALL OVER CONE, POINT UP (FILLED) 0	
018 - CROSS - - - - - - - - - - - - - - 0	
019 - BALL (FILLED) - - - - - - - - - - - 0	
020 - BROOM - - - - - - - - - - - - - - 0	
021 - "T" - - - - - - - - - - - - - - - 0	
022 - CAN OVER BALL (OPEN) - - - - - - - 0	
023 - CROSS OVER BALL (OPEN) - - - - - - 0	
024 - DIAMOND OVER BALL (FILLED) - - - - 0	
025 - DOUBLE BALL (OPEN) - - - - - - - - 0	
026 - CONE, POINT DOWNWARD (OPEN) - - - 0	
027 - DOUBLE CONE, POINTS APART (OPEN) - 0	
099 - NONE - - - - - - - - - - - - - - 0	
TMS EXTRACTION TIMESTAMP	The date on which the feature was extracted followed by an increment specific to each source.
	Increment: 1 Increment Limits: N/A Variance: N/A
Range: 0...No Upper Limit	

Attributes/Values	# / Definition
TRA TRAVERSABILITY ATTRIBUTE	Indicates whether the feature is traversable by foot.
001 - TRAVERSABLE 0	
002 - NON-TRAVERSABLE 0	
TRE TREE CATEGORY	Type of tree coverage.
000 - UNKNOWN 0	
001 - DECIDUOUS 0	>= 60% Deciduous tree characteristics (seasonal loss of foliage).
002 - EVERGREEN 0	>= 60% Evergreen tree characteristics (permanent foliage present).
003 - MIXED 0	An area with both Evergreen and Deciduous trees with on one type being predominant and with varying proportions between >= 40 and <= 60 percent..
TS1 TREE SPACING RANGE (1)	Estimated range (1) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
000 - UNKNOWN 0	
001 - > 0 AND <= 1.0 0	
002 - > 1.0 AND <= 2.0 0	
003 - > 2.0 AND <= 3.0 0	
004 - > 3.0 AND <= 5.0 0	
005 - > 5.0 AND <= 7.0 0	
006 - > 7.0 AND <= 10.0 0	
007 - > 10.0 AND <= 15.0 0	
008 - > 15.0 0	
TS2 TREE SPACING RANGE (2)	Estimated range (2) of the average distance between trees in a stand, determined in decimeter ranges from center to center of adjacent trees.
000 - UNKNOWN 0	
001 - > 0 AND <= 3.0 0	
002 - > 3.0 AND <= 6.0 0	
003 - > 6.0 AND <= 10.0 0	
004 - > 10.0 0	
005 - NOT APPLICABLE 0	
TS3 TREE SPACING RANGE (3)	Estimated range (3) of the average distance between trees in a stand, determined in decimeter (0.1 meter) ranges from center to center of adjacent trees.
000 - UNKNOWN 0	
001 - > 0 AND <= 5.0 0	
002 - > 5.0 AND <= 10.0 0	
003 - > 10.0 AND <= 15.0 0	
004 - > 15.0 AND <= 20.0 0	
005 - > 20.0 AND <= 25.0 0	
006 - > 25.0 AND <= 30.0 0	
007 - > 30.0 AND <= 35.0 0	
008 - > 35.0 AND <= 40.0 0	
009 - > 40.0 AND <= 50.0 0	
010 - > 50.0 AND <= 60.0 0	
011 - >60.0 AND <= 70.0 0	
012 - > 70.0 AND <= 80.0 0	
013 - > 80.0 AND <= 100.0 0	
014 - > 100.0 AND <= 150.0 0	
015 - > 150.0 0	
016 - NOT APPLICABLE 0	
TSD TREE SPACING DISTANCE	Average distance between adjacent tree centerlines within area of feature.
	Increment: 0.1 Meter Limits: Average of measured, estimated, and/or calculated horizontal distance between the cross-section centers of adjacent trees. Variance: Different sampling reduction methods used for trees in managed wooded areas as opposed to those growing naturally.
Range: > 0...No Upper Limit	
TSH RUNWAY HIGH END THRESHOLD LIGHTS	The availability of threshold lights at the high end of the runway.
000 - UNKNOWN 0	
001 - AVAILABLE 0	
002 - NOT AVAILABLE 0	
TSL RUNWAY LOW END THRESHOLD LIGHTS	The availability of Threshold lights at the low end of the runway.
000 - UNKNOWN 0	
001 - AVAILABLE 0	
002 - NOT AVAILABLE 0	
TSP TRAFFIC SCHEME PART	Component of the traffic routing system.
000 - NOT APPLICABLE 0	
001 - ARROW 0	
002 - OUTER BOUNDARY 0	

Attributes/Values	# / Definition
TSP TRAFFIC SCHEME PART (Cont.)	
003 - SEPARATION ZONE AREA - - - - - - - - 0	
004 - SEPARATION ZONE LINE - - - - - - - - 0	
005 - SEPERATION ZONE POINT - - - - - - - 0	
TST TRANSMISSION LINE SUSPENSION TYPE	Power transmission lines that are suspended between pylons.
001 - NORMAL SUSPENSION - - - - - - - - - 0	Power transmission line(s) (cables) that are suspended between regularly spaced pylons where neither cables nor the pylon usually do not exceed obstruction requirements.
002 - CATENARY (OVER MOUNTAINS) - - - - - 0	Power transmission line(s) (cables) which span valleys from top of mountains or ridges where the cable height above the valley floor exceeds the obstruction requirements, but the pylon height is less than the requirement.
003 - CATENARY (OVER WATER) - - - - - - - 0	Power transmission line(s) (cables) which span water bodies on pylons that are equal to or greater than the obstruction requirements.
TTC TOWER TYPE CATEGORY	Appearance, or configuration of the feature.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - BRIDGE - - - - - - - - - - - - - - - 0	Towers as part of bridge superstructure
002 - OBSERVATION /LOOKOUT - - - - - - - - 0	
003 - OTHER - - - - - - - - - - - - - - - 0	
TUC TRANSPORTATION USE CATEGORY	The mode of transportation associated with the feature.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - ROAD AND RAILROAD - - - - - - - - - - 0	
003 - RAILROAD - - - - - - - - - - - - - - 0	
004 - ROAD - - - - - - - - - - - - - - - - 0	
006 - STREET PATTERN - - - - - - - - - - - 0	Intra city pattern only (in built-up areas).
006 - STREET - - - - - - - - - - - - - - - 1	
007 - THROUGH ROUTE - - - - - - - - - - - 0	Any road which carries the main flow of vehicular traffic through a populated area, may include both direct routes and alternate routes that bypass the congested areas of an urban area.
012 - MARINE - - - - - - - - - - - - - - - 0	
013 - AIR - - - - - - - - - - - - - - - - 0	
014 - BUS - - - - - - - - - - - - - - - - 0	
017 - PEDESTRIAN ONLY - - - - - - - - - - 0	
018 - OTHER - - - - - - - - - - - - - - - 0	
019 - AQUEDUCT - - - - - - - - - - - - - - 0	
020 - CANAL - - - - - - - - - - - - - - - 0	
021 - NOT APPLICABLE - - - - - - - - - - - 0	
022 - CARAVAN ROUTE - - - - - - - - - - - 0	
023 - TRAFFIC CIRCLE ON THROUGH ROUTE/ ROAD - - - - - - - - - - - - - - 0	
024 - PIPELINE - - - - - - - - - - - - - - 0	
025 - SIDINGS/SPURS - - - - - - - - - - - 0	
026 - DITCH - - - - - - - - - - - - - - - 0	
027 - STREAM - - - - - - - - - - - - - - - 0	
028 - LOGGING ROAD - - - - - - - - - - - - 0	Road used to support lumber or logging operations.
029 - CORDUROY ROAD - - - - - - - - - - - 0	Type of road though swamps, peat, or other unstable soils. An interweaving of rock, logs, and gravel.
030 - STREET PATTERN TRAFFIC CIRCLE - - 0	A traffic circle associated with an intra-urban street pattern.
TXP TAXIWAY TYPE	The type of like taxiways at the air facility.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
004 - DISPERSAL - - - - - - - - - - - - - 0	A Dispersal taxiway may lead off a runway, taxiway, apron, or lead to another dispersed runway and parking areas, bunkers or hardstands.
005 - LINK - - - - - - - - - - - - - - - - 0	A Link taxiway links a runway with a parallel taxiway, one taxiway with another, or a runway directly with an apron.
006 - LOOP - - - - - - - - - - - - - - - - 0	A loop taxiway may lead off either end of a runway or another taxiway to a dispersal or other parking area and return to its point of origin.
007 - PARALLEL - - - - - - - - - - - - - - 0	A taxiway that lays parallel to a runway and usually has intermediate linking taxiways to the runway and aprons.
008 - PERIMETER - - - - - - - - - - - - - 0	A Perimeter taxiway may travel the whole or half of the perimeter of an airport.
TXR TAXIWAY REMARKS	Remarks concerning the taxiway.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
TXT TEXT ATTRIBUTE	Narrative descriptions and /or information concerning this feature.
000 - ANY DESCRIPTION - - - - - - - - - 0	
UBC UNDERBRIDGE CLEARANCE CATEGORY	The maximum clear distance under the bridge.
	Increment: 0.1 Meter Limits: Measured between the underside of the bridge and the surface of the ground,or average mean water level or Mean Sea Level below it. Variance: Documented or field checked data is recorded as given.

Default:0=Unknown

Attributes/Values		#	/ Definition
UMC	UNDERLYING MATERIAL CHARACTERISTICS		Characteristics of underlying material composition of feature.
000 -	UNKNOWN	0	
009 -	BROKEN	0	
010 -	CALCAREOUS	0	
015 -	COARSE	0	
021 -	DECAYED	0	
025 -	FINE	0	Minute particles.
026 -	FLINTY	0	
032 -	GLACIAL	0	
036 -	GRITTY	0	
038 -	GROUND	0	Used before shells.
039 -	HARD	0	
042 -	LARGE	0	
066 -	ROCKY	0	
067 -	ROTTEN	0	
078 -	SMALL	0	
079 -	SOFT	0	
080 -	SPECKLED	0	
084 -	STICKY	0	
085 -	STIFF	0	
087 -	STRARY	0	
089 -	TENACIOUS	0	
091 -	UNEVEN	0	
093 -	VARIED	0	
094 -	VOLCANIC	0	
100 -	MEDIUM	0	
UNI	UNITS CATEGORY		Unit of measure.
000 -	UNKNOWN	0	
004 -	DEGREES, MINUTES, SECONDS	0	
005 -	FATHOMS	0	
006 -	FEET	0	
010 -	KILOMETERS	0	
011 -	KILOHERTZ	0	
012 -	MEGAHERTZ	0	
013 -	METERS	0	
017 -	NAUTICAL MILES	0	
020 -	STATUTE MILES	0	
021 -	UTM	0	
022 -	YARDS	0	
UQI	UNIQUE SEQUENCE		A sequencing number, when used in conjunction with TMS Extraction Timestamp to make each feature uniquely identifiable. Increment: 1 Increment Limits: N/A Variance: N/A Range: 0...No Upper Limit
USE	USE STATUS		Identifies the primary user, function, or controlling authority.
000 -	UNKNOWN	0	
004 -	NATIONAL	0	
005 -	STATE	0	
006 -	PRIVATE	0	
008 -	MILITARY	0	
008 -	MILITARY	1	Feature controlled and operated primarily by military authorities primarily for use by military; civil may have landing privileges. Facilities as for civilian feature.
010 -	OTHER	0	
011 -	MOTEL /HOTEL	0	
012 -	APARTMENT	0	
013 -	OPEN	0	Storage in an open air facility.
016 -	CITY	0	
017 -	ADVERTISING BILLBOARD	0	
018 -	SCOREBOARD	0	
019 -	HIGHWAY SIGN	0	
020 -	CLOSED	0	Storage in a covered enclosure.
022 -	JOINT MILITARY /CIVILIAN	0	Feature jointly controlled /operated /used by both civil military agencies; military must be permanent operational flight line tenants (with or without a/c). Facilities as for civilian feature.
023 -	INTERNATIONAL	0	
026 -	PRIMARY /1ST ORDER	1	First major Administrative division of a Nation State.
026 -	PRIMARY /1ST ORDER	2	Used for main flow of vehicular traffic.
030 -	2ND ORDER	0	The largest division of a Primary /1st Order unit.
031 -	3RD ORDER	0	
032 -	INSULAR	0	Of or pertaining to an island.
037 -	INTERSTATE	0	
041 -	INDUSTRIAL	0	
042 -	COMMERCIAL	0	
043 -	HOSPITAL	0	
044 -	RESIDENTIAL	0	
045 -	AGRICULTURAL	0	
048 -	DECOY	0	An airport designed to resemble a usable airport but is not capable of supporting aircraft operations of any kind.
049 -	CIVILIAN	0	Feature controlled operated by civil authorities primarily for civil use; military may have landing privileges. Minimum facilities are: ATC mechanism,

Attributes/Values	# / Definition
USE USE STATUS (Cont.)	
050 - LIMITED ACCESS - - - - - - - - - - - 0	Feature having natural, temporary, or permanent type surface runway(s) withless than the minimum facilities of civil features or are under construction with no usable landing area.
050 - LIMITED ACCESS - - - - - - - - - - - 1	
051 - TELEGRAPH - - - - - - - - - - - - - 0	
052 - TELEPHONE - - - - - - - - - - - - - 0	
053 - POWER - - - - - - - - - - - - - - - 0	
057 - MARINE - - - - - - - - - - - - - - - 0	
058 - LOW ALTITUDE ENROUTE STRUCTURE - - - 0	
059 - HIGH ALTITUDE ENROUTE STRUCTURE - - 0	
060 - LOW AND HIGH ALTITUDE ENROUTE STRUCTURE - - - - - - - - - - - 0	
061 - TERMINAL STRUCTURE - - - - - - - - - 0	
070 - RECREATIONAL - - - - - - - - - - - - 0	
071 - RUNWAY - - - - - - - - - - - - - - - 0	
072 - SECONDARY - - - - - - - - - - - - - 0	Not used for main flow of vehicular traffic.
073 - FLOOD /STORM BARRAGE - - - - - - - - 0	
074 - PARALLEL TAXIWAY - - - - - - - - - - 0	
075 - LOOP TAXIWAY - - - - - - - - - - - - 0	
076 - PERIMETER TAXIWAY - - - - - - - - - 0	
077 - DISPERSAL TAXIWAY - - - - - - - - - 0	
078 - LINK TAXIWAY - - - - - - - - - - - - 0	
079 - HIGH SPEED TAXIWAY - - - - - - - - - 0	
080 - CONTAINER - - - - - - - - - - - - - 0	
081 - SINGLE POINT MOORING - - - - - - - - 0	
085 - TRANSPORTATION - - - - - - - - - - - 0	
086 - FLOOD CONTROL AND/OR RATE MEASUREMENT - - - - - - - - - - - - 0	A small artificial barrier across a stream used to raise the water level or divert its flow into a desired channel. Normally the water will either over flow barrier or flow through notch to regulate and/or measure the water flow.
087 - COMPASS ADJUSTMENT - - - - - - - - - 0	
088 - ROLL-ON ROLL-OFF BERTH (RORO) - - - 0	
089 - RESERVE AREA - - - - - - - - - - - - 0	
090 - TRIBAL RESERVATION - - - - - - - - - 0	
091 - PROHIBITED AREA - - - - - - - - - - 0	
092 - ANIMAL SANCTUARY - - - - - - - - - - 0	
093 - FOREST PRESERVE - - - - - - - - - - 0	
USI UNIQUE SOUNDING IDENTIFIER	A sequencing number, when used in conjunction with SSI Sounding Source ID on 2ED23 BAD Sounding Source ID or 2ED25 BMD Sounding Source ID, to make each sounding uniquely identifiable. Increment: 1 Identifier Limits: N/A Variance: N/A
Range: 0...No Upper Limit	
USP URBAN STREET PATTERN	The predominant geometric configuration of streets found within the delineated area of the feature.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - RECTANGULAR /GRID - - - - - - - - - 0	
002 - RECTANGULAR /GRID-REGULAR - - - - - 0	
003 - RECTANGULAR /GRID-IRREGULAR - - - - 0	
004 - CURVILINEAR (CLUSTER) - - - - - - - 0	
005 - CONCENTRIC /RADIAL - - - - - - - - - 0	
006 - CONCENTRIC /RADIAL-REGULAR - - - - - 0	
007 - CONCENTRIC /RADIAL-IRREGULAR - - - - 0	
008 - MIXED - - - - - - - - - - - - - - - 0	
009 - MIXED-CURVILINEAR (CLUSTER) AND RECTANGULAR (GRID) - - - - - - - - 0	
010 - MIXED-CONCENTRIC/RADIAL AND RECTANGULAR (GRID) - - - - - - - - 0	
011 - MIXED-CURVILINEAR (CLUSTER) AND CONCENTRIC /RADIAL - - - - - - - 0	
012 - OTHER - - - - - - - - - - - - - - - 0	
013 - LINEAR/STRIP - - - - - - - - - - - - 0	
014 - RADIAL, REGULAR - - - - - - - - - - 0	
015 - RADIAL, IRREGULAR - - - - - - - - - 0	
016 - CONCENTRIC, REGULAR - - - - - - - - 0	
017 - CANALS, REGULAR - - - - - - - - - - 0	
018 - CANALS, IRREGULAR - - - - - - - - - 0	
019 - CONTOUR, CONFORMING (REGULAR CONTOURING) - - - - - - - - - - - 0	
020 - CONTOURING, IRREGULAR - - - - - - - 0	
021 - MEDIEVAL/PREINDUSTRIAL, IRREGULAR 0	
UT1 UTM GRID NORTHING	The full 7 digits of the UTM grid coordinate Northing value. Together, UTS a long with the last five digits of both UT1 and UT2, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.
000 - CHAR: 7 N - - - - - - - - - - - - 0	
UT2 UTM GRID EASTING	The full 6 digits of the UTM grid coordinate Easting value. Together, UTS along with the last five digits of both UT1 and UT2, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.

Attributes/Values	# / Definition
UT2 UTM GRID EASTING (Cont.)	
000 - CHAR: 6 N - - - - - - - - - - - -	0
UTS UTM SQUARE IDENTIFICATION	Identifies position of feature to within a specific 100,000 meter square. The identification is a 5 digit alpha-numeric designation, wherein the 1st two numbers are the UTM grid zone, the 3rd letter is the specific 6°x8° block within the grid zone (these 3 digits form a unique identifier called the Grid Zone Designation), and the last two letters are the 100,000 meter square identification. Together with the last 5 digits of the UT2 and UT1 attributes, these attributes can designate a feature's exact coordinates to within a specific 1 meter square on the earth's surface.
000 - CHAR: 5 A/N - - - - - - - - - - -	0
UZ1 UTM GRID ZONE (1)	Two-character grid zone identifier.
000 - CHAR: 2 A - - - - - - - - - - - -	0
UZ2 UTM GRID ZONE (2)	Two-character grid zone identifier.
000 - CHAR: 2 A - - - - - - - - - - - -	0
VA1 FIRST MAGNETIC VARIATION VALUE	First magnetic variation value of the disturbance area.
	Increment: Degrees and Minutes Limits: N/A Variance: N/A
Range: -89 DEG 59 MIN WEST...89 DEG 59 MIN EAST	
VA2 SECOND MAGNETIC VARIATION	Second magnetic variation value of the disturbance area.
	Increment: Degrees and Minutes Limits: N/A Variance: N/A
Range: -89 DEG 59 MIN WEST...89 DEG 59 MIN EAST	
VAC VISUAL AIDS CATEGORY	Identifies the type of visual ground signs for aeronautical aids.
000 - UNKNOWN - - - - - - - - - - - -	0 The VAC is unknown
001 - SHORE (MARKER) - - - - - - - - -	0 Visible from shoreline side of marker
002 - LAND (MARKER) - - - - - - - - -	0 Visible from land side of marker
VAV VARIATION ANOMALY VALUE	The difference between the magnetic variation (MVC) of the disturbance area and the magnetic variation of the surrounding area.
000 - ANY VALUE OR VALUES - - - - - - -	0
001 - FIRST MAGNETIC VARIATION VALUE OF THE DISTURBANCE AREA - - - - - -	0
002 - SECOND MAGNETIC VARIATION VALUE OF THE DISTURBANCE AREA - - - - - -	0
VCA VOID COLLECTION ATTRIBUTE	Reason data is not collected.
000 - UNKNOWN - - - - - - - - - - - -	0
001 - DATA NOT REQUESTED BY USER - - - -	0
002 - AREA TOO ROUGH TO COLLECT - - - -	0
003 - NO AVAILABLE IMAGERY - - - - - - -	0
004 - DIFFERENT HEIGHT THRESHOLD WITHIN DATA BLOCK - - - - - - - - - -	0
005 - LOW DATA COLLECTION CRITERIA - - -	0
006 - NO AVAILABLE MAP SOURCE - - - - -	0
007 - NO SUITABLE IMAGERY - - - - - - -	0
008 - DATA NOT REQUIRED - - - - - - - -	0
VCT VOID COLLECTION TYPE	Identifies type of missing information.
001 - RELIEF - - - - - - - - - - - - -	0
002 - OTHER - - - - - - - - - - - - - -	0
VDC VERTICAL DATUM CATEGORY	Vertical datum to which the feature is referenced.
000 - UNKNOWN - - - - - - - - - - - -	0
004 - INDIAN SPRING LOW WATER - - - - -	0
007 - MEAN HIGH WATER - - - - - - - - -	0 The average height of all the high waters recorded over a 19-year period, or a computed equivalent period.
009 - MEAN HIGH WATER SPRINGS - - - - -	0
010 - MEAN HIGHER HIGH WATER - - - - - -	0 The average height of all the daily higher high waters recorded over a 19-year period or computed equivalent period. It is usually associated with a tide exhibiting mixed characteristics.
011 - MEAN LOW WATER - - - - - - - - -	0
013 - MEAN LOW WATER SPRINGS - - - - - -	0
014 - MEAN LOWER LOW WATER - - - - - - -	0
015 - MEAN SEA LEVEL - - - - - - - - - -	0
023 - OTHER - - - - - - - - - - - - - -	0
024 - MEAN HIGHER HIGH WATER SPRINGS - -	0
025 - MEAN LOWER LOW WATER SPRINGS - - -	0
026 - HIGHEST NORMAL HIGH WATER - - - -	0
027 - LOWEST NORMAL LOW WATER - - - - -	0

Attributes/Values	#	/ Definition
VDC VERTICAL DATUM CATEGORY (Cont.)		
028 - HIGHEST HIGH WATER	0	
029 - LOWEST LOW WATER	0	
030 - INDIAN SPRING HIGH WATER	0	
031 - NOT APPLICABLE	0	
VDR VERTICAL DATUM RECORD		Name of Vertical Datum when VDC (Vertical Datum Category) is 023 (other).
000 - ANY DATUM	0	
VEG VEGETATION CHARACTERISTICS		Type or characteristic of vegetation.
000 - UNKNOWN	0	
001 - DRY CROPS	0	
004 - RICE PADDIES	0	
006 - CRANBERRY	0	
007 - PEAT	0	
008 - PASTURE, MEADOW, STEPPE	0	
009 - GRASSLAND WITH SCATTERED TREES	0	
011 - CASUARINA	0	Tree with slender, green, deeply grooved, and often drooping branches, that bears whorls of tiny, scalelike leaves and appears pine-like from afar. Found in tropical areas from E.Africa to SE Asia to NE Australia and Polynesia.
012 - CONIFEROUS	0	Any woody plant that bears its seeds on hard or papery scales arranged in spirals, or whorls, around an axis, forming a cone. Most are evergreen trees and shrubs native to the Northern Hemisphere.
016 - NIPA PALM	0	A dense growth of stemless palms found in tropical and semi-tropical tidal or brackish waters. It usually occurs farther inland than mangrove and generally forms strips in channels, through which tides ebb and flow.
017 - PALM	0	Chiefly tropical and sub-tropical trees, shrubs, and vines, usually with a tall columnar trunk. The trunk is crowned by very large, pleated, fan-shaped, or feather shaped leaves.
018 - PILAO	0	Similar to casuarina, but with very pendulous branches.
019 - MANGROVE	0	A thick growth of trees with tangled aerial roots, which appears in tropical and semi-tropical regions. It occurs in low lying areas along the banks of tidal waters up to the limits of the tidal influence.
020 - CYPRUS	0	Evergreen conifers, often 25 meters tall, that are pyramidal in shape, especially when young. At maturity, some develop flattened spreading heads.
021 - OTHER	0	
031 - EUCALYPTUS	0	Large native trees to Australia, New Zealand, Tasmania, and nearby islands. Their leaves are leatherery and hang obliquely or vertically.
032 - NOT APPLICABLE	0	
033 - FOREST CLEARING	0	
VGC VEGETATION TYPE CATEGORY		Predominant vegetation type or characteristics within the delineated area of the feature.
001 - AGRICULTURE (DRY CROPS)	0	An area of cultivated crops, such as grains, tubers, legumes, and vegetables, grown in moist or dry conditions, including ground left fallow on a seasonal basis.
002 - AGRICULTURE (WET CROPS)	0	An area of cultivated crops grown in a wet environment, generally flooded in the spring and kept saturated until harvest time. Small dikes or walls often enclose the area, such as rice paddies.
003 - AGRICULTURE (TERRACED CROPS, WET & DRY)	0	Raised areas of wet or dry cropland supported by embankments or retaining walls, usually found in small mountain valleys and on hillsides world wide, forming a step-like effect.
004 - AGRICULTURE (SHIFTING CULTIVATION)	0	An area where the predominant vegetation is removed by cutting, burning, etc., and crops are planted in its place. As soil nutients are exhausted in 2 to 5 growing seasons, fields are abandoned, and secondary succession begins...
005 - AGRICULTURE WITH SCATTERED WOODLOTS	0	Area with cropland as the predominant vegetation with 25-50% of the area covered with scattered woodlots. Woodlots are intermixed with with cropland throughout the area.
006 - AGRICULTURE WITH SCATTERED TREES / ROWS OF TREES	0	Area with cropland as the predominant vegetation with 0-25% of the area covered with scattered trees or rows of trees along roads and field borders. Rows of trees and/or individual trees are dispersed throughout the area.
007 - AGRICULTURE (DITCH IRRIGATION)	0	Cropland in areas irrigated by water channeled in small ditches or furrows, which are usually 10 to 20 cm deep and 100 to 400 m long, with centers spaced 75 to 150 cm apart. It can occur in all climatic regions.
008 - BRUSHLAND (SPARSE TO MEDIUM SPACING)	0	Area of predominantly low-growing (< 5m high) multi-stemmed woody vegetation and/or scrub growth with > 5% and <= 50% ground coverage (BUD 002 or 003). Vegetation types include heath, shrubs, thickets, cactus, sagebrush, etc.

Attributes/Values	#	/ Definition
VGC VEGETATION TYPE CATEGORY (Cont.)		
009 - BRUSHLAND (DENSE SPACING) - - - -	0	Area of predominantly low-growing (< 5m high) multi-stemmed woody vegetation and/or scrub growth with > 50% ground coverage (*BUD 004*). Vegetation types include heath, shrubs, thickets, cactus, sagebrush, etc.
010 - EVERGREEN /CONIFEROUS FOREST - - -	0	An area where >= 60% of the trees retain their foliage throughout the year. Category includes evergreen/ coniferous trees, as well as broadleaf evergreens, such as Live Oak, Holly Oak, and tropical Magnolia, Ebony, Mahogany, etc.
011 - DECIDUOUS FOREST - - - - - - - - -	0	An area where >= 60% of the trees lose their foliage seasonally. Category includes broadleaf deciduous trees, as well as deciduous conifers, such as Redwood and Larch.
012 - MIXED FOREST (EVERGREEN /DECIDUOUS)	0	An area containing both Evergreen and Deciduous trees where neither is predominant and with varying proportions of each between >= 40 and <= 60 percent.
013 - ORCHARD /PLANTATION /NURSERY (FRUIT,NUTS,RUBBER PALM ETC.) -	0	Area of systematic plantings of evenly spaced rows of perennial trees, which yield fruits, nuts, spices, or other commercial products exclusive of timber, grapes or hops. Tree nurseries are also included.
014 - GRASSLAND, PASTURE, MEADOW - - - -	0	An extensive area of herbaceous plants consisting primarily of grass varieties. Common middle latitude names include prairie (tall grass >= 1 m) and steppe (short grass < 1m). Poorly drained grasslands often develop into meadows.
015 - GRASSLAND WITH SCATTERED TREES AND /OR SCRUB GROWTH - - - - - - - -	0	Primarily an uncultivated grassland with widely spaced, scattered trees (max. canopy closure <= 10%) and/or scrub growth intermixed throughout the area, such as early secondary succession in abandoned fields and tropical savanna.
016 - FOREST CLEARING (CUTOVER AREAS, BURNS, ETC.) - - - - - - - - - -	0	An area where a section of forest has been either burned or cleared off. As secondary succession or silviculture practices quickly change these areas, this code should only be used if area is not better describe by another code.
017 - SWAMP (EVERGREEN/CONIFEROUS) - - -	0	A low lying saturated area, intermittently/perennially covered with shallow water, and characterized by the slow decay of dead vegetation and a predominant growth of hydrophytic evergreen trees and/or shrubs, such as Black Spruce.
018 - SWAMP (DECIDUOUS) - - - - - - - -	0	A low lying saturated area, similar to the above, but with a predominant growth of hydrophytic deciduous trees and/or shrubs, such as Bald Cypress with buttressed trunks and vertical knees.
019 - SWAMP (MIXED) - - - - - - - - - -	0	A low lying saturated area, similar to the above, but characterized by a mixed growth of both evergreen and deciduous hydrophytic trees and/or shrubs, in varying proportions of each between >= 40 and <= 60 percent.
020 - SWAMP (MANGROVE) - - - - - - - - -	0	A low lying saturated area, found along tropical and semi-tropical seacoasts and banks of tidewater streams, and characterized by a dense growth of trees with tangled aerial roots, such as Mangrove trees.
021 - SWAMP (NIPA) - - - - - - - - - - -	0	A low lying saturated area characterized by a dense growth of evergreen stemless palms, found in tropical and semi-tropical tidal and brackish waters, inland of mangrove and forms stripe in channels due to tidal water flow.
022 - BOG - - - - - - - - - - - - - - -	0	A permanently wet, poorly drained or periodically flooded, area of soft, wet, spongy ground of peat that supports mosses, herbaceous vegetation, and sometimes woody shrub vegetation or trees, on an accumulation of organic matter.
023 - MARSH - - - - - - - - - - - - - -	0	A wet or periodically inundated region that is usually void of woody vegetation and generally characterized by grasses, sedges, reeds, and other herbaceous vegetation. Both tidal and non-tidal areas are included in this category.
024 - VINEYARD /HOPS - - - - - - - - - -	0	Area covered by a systematic planting of perennial vinelike vegetation, such as grapes or hops. Vineyards have closely spaced rows of supported vines (<= 2 m high), while hops grow in rows supported by poles (3 to 4 m high).
025 - BAMBOO /WILD CANE - - - - - - - -	0	A woody grass or reed widely distributed in the tropics or subtropics and usually characterized by extremely dense growth with a height range of 3 to 30 meters. This category also includes sugar cane.
026 - BARE GROUND - - - - - - - - - - -	0	Permanently bare areas characterized by little or no vegetation (< 5 %), such as salt pans, sand dunes, beaches, talus slopes, lava flows, rock outcrops, quarries, strip mines, permanent snowfields, glaciers, barren tundra, etc.
027 - WET TUNDRA - - - - - - - - - - - -	0	Flat to undulating treeless plains of low topographic relief in arctic and subarctic regions, characterized by frozen to wet topsoils over permafrost -supports sedges, rooted aquatic plants and a few shrubby plants on drier sites.
028 - HERBACEOUS TUNDRA - - - - - - - -	0	Tundra area, similar to the above, characterized by non-woody vegetation associations of mosses, lichens, sedges, and grasses often forming a continous ground cover with minor occurrences of low (<0.5 m) woody

Attributes/Values		#	/ Definition
VGC	VEGETATION TYPE CATEGORY (Cont.)		
	029 - BRUSH/SHRUB TUNDRA	0	Tundra area, similar to the above, with vegetation dominated by scattered to dense woody shrubs and thickets, usually in association with mosses, sedges, and grasses.
	030 - ALPINE TUNDRA	0	Normally dry arctic-like areas with sparse veg. growing closely matted to the ground. Higher elev veg. is scattered among barren rocks and rock outcrops, commonly incl.mont.lichens, & herbs, & grasses,sedges on rocks,sand,gravel.
	031 - EVERGREEN/CONIFEROUS ORCHARD/ PLANTATION/NURSERY	0	Area where >60 percent of commerical trees retain their foliage throughout the year. Both broadleaf and coniferous evergreen trees are included in this category.
	032 - DECIDUOUS ORCHARD/PLANTATION/ NURSERY	0	Area where >60 percent of commerical trees lose their foliage on a seasonal basis. This class includes both broadleaf and coniferous deciduous trees.
	033 - MIXED ORCHARD/PLANTATION/NURSERY	0	Area with both evergreen/coniferous and deciduous commerical trees, where neither is predominant, in proportions of each varying between >=40 and <=60 percent.
	034 - PALM ORCHARD/PLANTATION/NURSERY	0	Planting of normally evergreen commerical trees with simple stems and crown of large fan-shaped leaves found in tropical and subtropical climatic zones. Some better known products are bananas, coconuts, oils, and dates.
	035 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	036 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	037 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	038 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	039 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	040 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	041 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	042 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	043 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	044 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	045 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	046 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	047 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	048 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	049 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
	050 - OPEN FIELDS FOR INTERACTIVE DEFINITION	0	
VGT	VOLCANO GEOLOGIC TYPE		The type of geologic formation created by volcanic activity.
	001 - VOLCANO	0	
	002 - CINDER CONE	0	An accumulation of loose cinders around a volcanic vent.
VH1	PREDOMINANT VEGETATION HEIGHT RANGE (1)		Range of predominant height (in meters) of vegetation within delineated area of feature (First Range).
	001 - >0 AND <= 5	0	
	002 - > 5 AND <=10	0	
	003 - > 10 AND <= 20	0	
	004 - > 20 AND <= 40	0	
	005 - > 40	0	
	006 - NOT APPLICABLE	0	
VH2	PREDOMINANT VEGETATION HEIGHT RANGE (2)		Range of predominant height (in meters) of vegetation within delineated area of feature (Second Range).
	001 - <= 5	0	
	002 - > 5 AND <= 20	0	
	003 - > 20	0	
VH3	PREDOMINANT VEGETATION HEIGHT RANGE (3)		Range of predominant height (in meters) of vegetation within delineated area of feature (Thrid Range).
	001 - <= 2	0	
	002 - > 2 AND <= 5	0	
	003 - > 5 AND <= 10	0	
	004 - > 10 AND <= 15	0	
	005 - > 15 AND <= 20	0	
	006 - > 20 AND <= 30	0	

Attributes/Values	# / Definition
VH3 PREDOMINANT VEGETATION HEIGHT RANGE (3) (Cont.)	
007 - > 30 AND <= 40 - - - - - - - - - - - 0	
008 - > 40 - - - - - - - - - - - - - - - - 0	
009 - > 20 AND <= 25 - - - - - - - - - - - 0	
010 - > 25 AND >= 30 - - - - - - - - - - - 0	
011 - > 30 AND <= 35 - - - - - - - - - - - 0	
012 - > 35 AND <= 40 - - - - - - - - - - - 0	
VOL VOLUME	Volume/Occupancy Level. This descriptor,has multiple meanings/applications: Size or capacity of industry, amount of activity, or vehicle occupation (i.e., numbers of automobiles/trucks, aircraft, RR cars, ships, etc.
001 - EMPTY - - - - - - - - - - - - - - - 1	Less than 5% occupancy
002 - LIGHT - - - - - - - - - - - - - - - 1	
002 - LIGHT - - - - - - - - - - - - - - - 2	5-33 % occupancy
003 - MODERATE - - - - - - - - - - - - - - 1	
003 - MODERATE - - - - - - - - - - - - - - 2	33-66% occupancy
004 - HEAVY - - - - - - - - - - - - - - - 1	
004 - HEAVY - - - - - - - - - - - - - - - 2	66-100% occupancy
005 - NOT APPLICABLE - - - - - - - - - - 1	
VPH RUNWAY HIGH END PAPI LIGHTS	The availability of Precision Approach Path Indicator (PAPI) lights at the high end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - 0	
VPL RUNWAY LOW END PAPI LIGHTS	The availability of Precision Approach Path Indicator (PAPI) lights at the low end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - 0	
VRC VERTICAL REFERENCE CATEGORY	Relative location referenced to sounding datum, unless otherwise indicated.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - ABOVE SURFACE /DOES NOT COVER (AT HIGH WATER) - - - - - - - - - - - 0	
002 - AWASH AT SOUNDING DATUM - - - - - - 0	<= .1 m above sounding datum
004 - BELOW SURFACE /SUBMERGED - - - - - - 0	
008 - COVERS AND UNCOVERS - - - - - - - - 0	
009 - NOT APPLICABLE - - - - - - - - - - - 0	
VRM VEHICLE REMARKS	Remarks on the available commercial or military vehicles, to include: numbers, sizes, use and ownership of jeeps, trucks, trailers, buses, etc.
000 - CHAR: 1080 A/N - - - - - - - - - - - 0	
VSH RUNWAY HIGH END VASI LIGHTS	The availability of Visual Approach Slope Indicator (VASI) lights of the high end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - 0	
VSL RUNWAY LOW END VASI LIGHTS	The availability of Visual Approach Slope Indicator (VASI) lights at the low end of the runway.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - AVAILABLE - - - - - - - - - - - - - 0	
002 - NOT AVAILABLE - - - - - - - - - - - 0	
VTP VEHICLE TYPE	Vehicle type brief description.
001 - MILITARY - - - - - - - - - - - - - - 0	
002 - COMMERCIAL - - - - - - - - - - - - - 0	
WBC WEIGHT BEARING CAPACITY	The surface weight bearing capacity (WBC) for different landing gear configurations as determined by U.S. sources.
000 - CHAR: 24 A/N - - - - - - - - - - - - 0	
001 - CHAR: 49 A/N - - - - - - - - - - - - 0	
WCP WIDTH OF CREST WITH GREATER PRECISION	Width of the dam at its crest, measured perpendicular to the centerline of its length along the crest.
	Increment: 0.1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: N/A
Range: 0...No Upper Limit	
WFT WELL FEATURE TYPE	Hydrographic features which are symbolized as wells, are usually dug or drilled, but could be natural.
000 - UNKNOWN - - - - - - - - - - - - - - 0	
001 - WATERHOLE - - - - - - - - - - - - - 0	A natural depression where rainwater or runoff collects, forming a small pool.

Attributes/Values	# / Definition
WFT WELL FEATURE TYPE (Cont.)	
002 - WALLED-IN SPRING - - - - - - - - - - 0	
003 - ARTESIAN WELL - - - - - - - - - - - 0	A well from which the water flows naturally due to the pressure of the underground water.
004 - FOUNTAIN - - - - - - - - - - - - - 0	
005 - WELL - - - - - - - - - - - - - - - 0	
006 - NON-WALLED SPRING - - - - - - - - - 0	
WGP WIDTH WITH GREATER PRECISION	A measurement of the shorter of two perpendicular axes: for a round feature, WGP shall equal to LGP or LEN (if present). Increment: 0.1 Meter Limits: Measured against the shortest axis of a best fit rectangle. Variance: N/A
Default:0=Unknown Range: 0.1...12000.0	
WID WIDTH	A measurement of the shorter of two linear axes. For a square feature, measure either axis. For a round feature, width shall be equal to LEN. Increment: 1 Meter Limits: Predominant distance across the feature, measured perpendicular to the centerline of the feature. Variance: N/A
Range: 0...No Upper Limit	
WOC WIDTH OF CREST	Width of dam at its crest, measured perpendicular to the centerline of its length along the crest. Increment: 1 Meter Limits: Distance across the crest of the dam measured perpendicular to the centerline of the feature. Variance: N/A
Range: 0...No Upper Limit	
WPC WORK IN PROGRESS CATEGORY	Type of work in progress. of work in progress.
001 - LAND RECLAMATION - - - - - - - - - 0	
002 - CONSTRUCTION OF STRUCTURES - - - - 0	
WSC WATER SALINITY CATEGORY	An evaluation of the salinity of the water.
000 - UNKNOWN - - - - - - - - - - - - - 0	
002 - FRESH - - - - - - - - - - - - - - 0	Maximum chlorides <= 600 mg/L Maximum sulfates <= 400 mg/L Maximum Total Dissolved Solids (TDS) <= 1500 mg/L
003 - BRACKISH - - - - - - - - - - - - - 0	Total Dissolved Solids > 1500 mg/L to <= 15,000 mg/L Specific chemical constituents are not considered.
004 - SALT - - - - - - - - - - - - - - - 0	Total Dissolved Solids > 15,000 mg/L
WSR WATER SUPPLY REMARKS	Remarks on the water supplies available, to include: source, quantity, storage capacity and methods, potability, and method of receipt.
000 - CHAR: 1080 A/N - - - - - - - - - - 0	
WT2 WIDTH OF SECOND TRAVELLED WAY	Minimum width of southern (or eastern, if vertical) side of travelled way surface associated with a road bridge divided by a barrier. Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given.
Range: > 0...No Upper Limit	
WTC ROUTE WEATHERABILITY CATEGORY	Ability of the route to withstand the effects of weather.
000 - UNKNOWN - - - - - - - - - - - - - 0	
001 - ALL WEATHER - - - - - - - - - - - 0	With reasonable maintenance, route passable throughout the year to traffic never appreciably less than maximum capacity; usually with waterproof surface and only slightly affected by precipitation or temperature changes.
002 - FAIR /DRY WEATHER - - - - - - - - 0	A route which is only serviceable during non-winter months of fair/dry weather.
002 - FAIR /DRY WEATHER - - - - - - - - 1	A route which quickly becomes impassable in adverse weather and cannot be kept open by maintenance short of major construction.
003 - WINTER ONLY - - - - - - - - - - - 0	A route which is only serviceable during winter months of frozen ground/water conditions.
003 - WINTER ONLY - - - - - - - - - - - 1	
004 - ALL WEATHER (LIMITED TRAFFIC DUE TO WEATHER) - - - - - - - - - - 0	With reasonable maintenance, route passable in all weather but sometimes only to less than maximum capacity; usually without waterproof surface and considerably affected by precipitation or temperature

Attributes/Values		# / Definition
WTI	WALL TYPE IDENTIFIER	Type of wall structure category.
	000 - UNKNOWN - - - - - - - - - - - - - - - 0	
	001 - STANDING - - - - - - - - - - - - - - - 1	Constructed above ground level.
	002 - RETAINING - - - - - - - - - - - - - - - 1	Constructed to sustain pressure of ground behind the wall.
	003 - OTHER - - - - - - - - - - - - - - - - 0	
	004 - ON GROUND AQUEDUCT - - - - - - - - - 1	(wall like)
WTR	WINTER TREE COVER DENSITY CODE	Coded value indicating percent of winter canopy closure within delineated area of feature.
	001 - <= 25 - - - - - - - - - - - - - - - - 0	
	002 - > 25 AND <= 50 - - - - - - - - - - - - 0	
	003 - > 50 AND <= 75 - - - - - - - - - - - - 0	
	004 - > 75 - - - - - - - - - - - - - - - - 0	
	005 - NOT APPLICABLE - - - - - - - - - - - 0	
WTW	WIDTH OF TRAVELLED WAY	Width of the traveled way associated with the feature. Increment: 0.1 Meter Limits: Width of the traveled way measured perpendicular to the centerline lengths, excluding shoulders or medians. Variance: Roadway width-Measure from edge of travelled way, or curbs, guard rails, structure supports, if more restricted. Exclude shoulders, medians. Waterway width-Measure at normal surface inside of walls. Documented/field check data recorded as given. Range: > 0...No Upper Limit
WVA	WATER VELOCITY AVERAGE	Average water velocity, estimated in meters /second within delineation of feature exclusive of high water due to runoff or low water due to drought.
	000 - UNKNOWN - - - - - - - - - - - - - - - 0	
	001 - <= 1.5 - - - - - - - - - - - - - - - - 0	
	002 - > 1.5 - - - - - - - - - - - - - - - - 0	
WWR	WATERWAYS REMARKS	Remarks on navigable waterways and ports, to include: classification; navigability; size /number /availability of quays and controlling depths /docks / wharves; warehouses and storage areas; land transportation available; equipment; max and normal handling capacities.
	000 - CHAR: 1080 A/N - - - - - - - - - - - 0	
ZVL	Z VALUE	The elevation of the highest point on the feature, as referenced to Mean Sea Level. Increment: 1 Meter Limits: From Mean Sea Level to the tallest portion of the feature. Variance: N/A Range: -400...30000
ZZZ	NO ATTRIBUTE REQUIRED	NA
	000 - NO VALUE REQUIRED - - - - - - - - - 0	

FEATURE CODE	FEATURE
	CULTURE 1
	EXTRACTION 1A
1A010	MINE
1A030	QUARRY
1A031	QUARRY SHEAR WALL
1A040	RIG / SUPERSTRUCTURE
1A050	WELL
	DISPOSAL 1B
1B000	DISPOSAL SITE / WASTE PILE
1B010	
	PROCESSING INDUSTRY 1C
	WRECKING YARD / SCRAP YARD
1C000	PROCESSING PLANT / TREATMENT PLANT
1C010	BLAST FURNACE
1C020	CATALYTIC CRACKER
1C030	SETTLING BASIN / SLUDGE POND
	POWER GENERATION 1 D
1D010	POWER PLANT FACILITY
1D020	SOLAR PANEL
1D030	SUBSTATION / TRANSFORMER YARD
	ASSOCIATED INDUSTRIAL FEATURES 1F
1F010	CHIMNEY / SMOKESTACK
1F020	CONVEYOR
1F030	COOLING TOWER
1F040	CRANE
1F050	DREDGE, POWERSHOVEL, DRAGLINE
1F060	ENGINE TEST CELL
1F070	FLARE PIPE
1F080	HOPPER
	INSTITUTIONAL/GOVERMENT 1H
1H020	BATTERY
1H045	FIRING RANGE
1H050	FORT
	RESIDENTIAL 1I
1I020	MOBILE HOME PARK
	AGRICULTURAL 1J
1J030	FEED LOT / STOCKYARD / HOLDING PEN
1J050	WINDMILL / WINDMOTOR

FEATURE CODE	FEATURE
	RECREATIONAL 1K
1K020	AMUSEMENT PARK ATTRACTION
1K030	AMUSEMENT PARK
1K040	ATHLETIC FIELD
1K060	CAMPGROUND / CAMPSITE
1K070	DRIVE-IN THEATER
1K080	DRIVE-IN THEATER SCREEN
1K090	FAIRGROUNDS
1K100	GOLF COURSE
1K110	GRANDSTAND
1K115	OUTDOOR THEATER / AMPHITHEATER
1K120	PARK
1K130	RACE TRACK
1K140	RECREATIONAL VEHICLE AREA
1K150	SKI JUMP
1K160	STADIUM
1K170	SWIMMING POOL
1K180	ZOO
	MISCELLANEOUS FEATURES 1L
1L015	BUILDING
1L018	BUILDING SUPERSTRUCTURE ADDITION
1L020	BUILT-UP AREA
1L025	CAIRN
1L030	CEMETERY
1L045	COMPLEX OUTLINE
1L050	DISPLAY SIGN
1L060	DRAGON (TIGER) TEETH
1L070	FENCE
1L073	FLAGSTAFF / FLAGPOLE
1L075	GALLERY
1L085	GEOPHYSICAL PROSPECTING GRID
1L095	HOMOGENEOUS RADAR SIGNIFICANT AREA
1L100	HUT
1L110	LIGHT STANDARD
1L120	MISSILE SITE
1L130	MONUMENT
1L135	NATIVE SETTLEMENT
1L140	NUCLEAR ACCELERATOR
1L155	OVERHEAD OBSTRUCTION LOCATION
1L160	PIPELINE / PIPE
1L165	PIPELINE/PIPE CROSSING POINT
1L170	PLAZA / CITY SQUARE
1L180	PUMPING STATION
1L200	RUINS
1L208	SHANTY TOWN
1L210	SNOW SHED / ROCK SHED
1L215	SPECIAL AREA
1L220	STEEPLE
1L228	TENT DWELLINGS
1L240	TOWER (NON-COMMUNICATION)
1L250	UNDERGROUND DWELLING
1L260	WALL

FEATURE CODE	FEATURE
	STORAGE 1M
1M010	DEPOT (STORAGE)
1M020	GRAIN BIN
1M030	GRAIN ELEVATOR
1M040	MINERAL PILE
1M050	SILO
1M060	STORAGE BUNKER / STORAGE MOUND
1M070	TANK
1M080	WATER TOWER
	TRANSPORTATION R/R 1N
1N010	RAILROAD TRACK
1N050	RR SIDING / RR SPUR
1N075	RR TURNTABLE
1N080	RR YARD
1N090	TRAMWAY / INCLINED RAILWAY
	TRANSPORTATION ROADS 1P
1P010	CART TRACK
1P020	INTERCHANGE
1P030	ROAD
1P050	TRAIL
	ASSOCIATED TRANSPORTATION 1Q
1Q010	AERIAL CABLEWAY LINE / SKI LIFT LINE
1Q020	AERIAL CABLEWAY PYLON / SKI LIFT PYLON
1Q040	BRIDGE / OVERPASS / VIADUCT
1Q045	BRIDGE SPAN
1Q050	BRIDGE SUPERSTRUCTURE
1Q058	CONSTRICTION
1Q060	CONTROL TOWER
1Q065	CULVERT
1Q068	DROP GATE / ROLLING BLOCK
1Q070	FERRY CROSSING
1Q080	FERRY SITE / FERRY SLIP
1Q100	DISTANCE MARKER
1Q110	MOORING MAST
1Q111	PREPARED RAFT OR FLOAT BRIDGE SITE
1Q115	REST AREA
1Q116	ROUTE MARKER
1Q118	SHARP CURVE
1Q125	STEEP GRADE
1Q131	TUNNEL
1Q132	TUNNEL ENTRANCE - EXIT
1Q140	VEHICLE STORAGE / VEHICLE PARKING
	AIR TRAFFIC SERVICES 1R
1R005	AIR OBSTRUCTION LIGHT
1R010	AIRSPACE
1R030	NAVAIDS
1R035	RADAR REFLECTOR

FEATURE CODE	FEATURE
	COMMUNICATION/TRANSMISSION 1T
1T005	CABLE
1T010	DISH
1T020	EARLY WARNING RADAR SITE
1T030	POWER TRANSMISSION LINE
1T040	POWER TRANSMISSION PYLON
1T045	RADAR TRANSMISSION RADOME
1T050	COMMUNICATIONS FACILITY
1T060	TELEPHONE LINE / TELEGRAPH LINE
1T070	TELEPHONE PYLON / TELEGRAPH PYLON
1T080	TOWER (COMMUNICATION)
	AIRPORT 1U
1U025	AIRCRAFT LANDING PAD
1U030	AIRCRAFT FACILITY
1U040	AIRCRAFT FACILITY BEACON
1U050	APPROACH LIGHTING
1U060	APRON / HARDSTAND
1U120	LAUNCH PAD
1U130	OVERRUN / STOPWAY
1U150	REVETMENT
1U160	RUNWAY
1U190	SEAPLANE LANDING OR TAKE-OFF AREAS
1U200	TAXIWAY
	HYDROGRAPHY 2
	COASTAL HYDROGRAPHY 2A
2A010	COASTAL SHORELINE
2A020	FORESHORE
2A040	OPEN WATER (EXCEPT INLAND)
2B010	ANCHORAGE
	PORTS AND HARBORS 2B
2B020	BERTH
2B040	BREAKWATER
2B050	CALLING-IN PORT
2B080	DOLPHIN
2B090	DRYDOCK
2B100	FISHERY / FISH STAKES
2B105	FISHING HARBOR
2B110	FISH TRAP / FISH WEIR
2B115	GRIDIRON
2B140	JETTY
2B150	LANDING PLACE
2B155	MARITIME STATION
2B170	OFFSHORE LOADING FACILITY
2B180	OYSTER OR CULTIVATED SHELLFISH BED
2B190	PIER, WHARF
2B220	RAMP
2B225	RIPRAP
2B230	SEAWALL
2B240	SLIPWAY

FEATURES LISTED BY FACS FEATURE CODES

FEATURE CODE	FEATURE
	NAVAIDS 2C
2C010	BUOY
2C020	CLEARING LINE
2C030	ELECTRONIC BEACON
2C040	LEADING LINE
2C050	LIGHT
2C055	MARKER
2C060	VISUAL BEACON
	DANGERS AND UNDERWATER FEATURES 2D
2D000	MISCELLANEOUS UNDERWATER FEATURE
2D010	BREAKERS
2D020	CRIB
2D030	DISCOLORED WATER
2D040	EDDIES
2D050	FOUL GROUND
2D060	KELP
2D080	OVERFALLS / TIDE RIPS
2D090	PERCH / STAKE
2D100	PILING
2D110	PLATFORM
2D120	REEF
2D125	REEF POOL
2D130	ROCK
2D140	SNAG / STUMP
2D180	WRECK
	DEPTH INFORMATION 2E
2E010	DEPTH CURVE
2E015	DEPTH CONTOUR
2E020	SOUNDING
2E030	TRACK LINE
2E040	TRACK SWATH
	BOOTOM FEATURES 2F
2F010	BOTTOM CHARACTERISTICS
	TIDE AND CURRENT INFORMATION 2G
2G010	CURRENT ARROW / FLOW ARROW
2G020	TIDE GAUGE
2G030	TIDE DATA POINT
2G040	CURRENT DIAGRAM
	INLAND WATER 2H
2H010	AQUEDUCT
2H020	CANAL
2H030	DITCH
2H040	FILTRATION / AERATION BEDS
2H050	FISH HATCHERY
2H060	FLUME

FEATURE CODE	FEATURE
	INLAND WATER 2H (Continued)
2H070	FORD
2H075	INLAND SHORELINE
2H080	LAKE / POND
2H090	LAND SUBJECT TO INUNDATION
2H095	MISCELLANEOUS SURFACE DRAINAGE FEATURE
2H100	MOAT
2H110	PENSTOCK
2H120	RAPIDS
2H130	RESERVOIR
2H140	RIVER / STREAM
2H145	RIVER OR STREAM VANISHING POINT
2H150	SALT EVAPORATOR
2H160	SABKHA
2H170	SPRING
2H180	WATERFALL
	MISCELLANEOUS INLAND WATER 2I
2I010	CISTERN
2I020	DAM
2I030	LOCK
2I040	SLUICE GATE
2I050	WATER INTAKE TOWER
	SNOW/ICE 2J
2J020	GLACIAL MORAINE
2J030	GLACIER
2J040	ICE CLIFF
2J060	ICE PEAK, NUNATAK
2J065	ICE SHELF
2J070	PACK ICE
2J080	POLAR ICE
2J100	SNOW FIELD / ICE FIELD
2J110	TUNDRA
	HYPSOGRAPHY 3
	RELIEF PORTRAYAL 3A
3A010	CONTOUR (LAND)
3A020	RIDGE LINE
3A030	SPOT ELEVATION
	PHYSIOGRAPHY 4
	EXPOSED SURFACE MATERIAL 4A
4A005	ASPHALT LAKE
4A010	GROUND SURFACE
4A015	CLEARED WAY
4A020	SALT PAN
4A030	SURFICIAL MATERIAL

FEATURE CODE	FEATURE
	LANDFORMS 4B
4B010	BLUFF / CLIFF, ESCARPMENT
4B030	CAVE DWELLING
4B060	CREVICE / CREVASSE
4B070	CUT
4B071	CUT LINE
4B080	DEPRESSION
4B090	EMBANKMENT
4B100	ESKER
4B110	FAULT
4B115	GEOTHERMAL FEATURE
4B135	ISLAND
4B145	MISCELLANEOUS OBSTACLE
4B150	MOUNTAIN PASS
4B155	RAVINE, GORGE, CANYON
4B160	ROCK FORMATION
4B170	SAND DUNES
4B176	SLOPE CATEGORY
4B180	VOLCANO
4B190	VOLCANIC DIKE
	CROSS-COUNTRY MOVEMENT 4C
4C010	CROSS COUNTRY MOVEMENT SPEED RANGE
	VEGETATION 5
	CROPLAND 5A
5A010	CROPLAND (CULTIVATED)
5A020	HEDGEROW
5A030	NURSERY
5A040	ORCHARD / PLANTATION
5A050	VINEYARD / HOPS
	RANGELAND 5B
5B010	GRASSLAND
5B020	SCRUB / BRUSH
	WOODLAND 5C
5C010	BAMBOO CANE
5C015	FIREBREAK
5C020	OASIS
5C030	TREES
	WETLANDS 5D
5D010	BOG
5D020	HUMMOCK
5D030	SWAMP
5D040	MARSH

FEATURE CODE	FEATURE
	LAND USE/LAND COVER 5E
5E010	LAND USE / LAND COVER (VEGETATION)
	DEMARCATION 6
	BOUNDARIES/LIMITS/ZONES (TOPOGRAPHIC) 6A
6A000	ADMINISTRATIVE BOUNDARY
6A020	ARMISTICE LINE
6A030	CEASE-FIRE LINE
6A040	CLAIM LINE
6A050	INTERNATIONAL MARITIME BOUNDARY
6A060	DEFACTO BOUND. / OTHER LINE OF SEPARATION
6A070	DEMILITARIZED ZONE
6A110	INTERNATIONAL DATE LINE
6A170	ZONE OF OCCUPATION
	BOUNDARIES/LIMITS/ZONES (HYDROGRAPHIC) 6B
6C020	COLREGS DEMARCATION LINE
6C030	CUSTOMS BOUNDARY
6C035	DIRECTION OF BUOYAGE INDICATOR
6C040	DREDGED CHANNEL / DREDGED AREA
6C070	HARBOR LIMIT
6C075	INSHORE TRAFFIC ZONE
6C090	MARITIME LIMIT
6C100	MEASURED DISTANCE LINE
6C110	MINE DANGER AREA
6C120	PROHIBITED AREA
6C130	RADAR REFERENCE LINE
6C150	RESTRICTED AREA
6C160	ROUNDABOUT
6C165	ROUTE
6C170	SAFETY FAIRWAY
6C177	SWEPT AREA
6C180	TRAFFIC SEPARATION SCHEME
6C210	WORK IN PROGRESS AREA
	AERONAUTICAL 8
	AIRCRAFT MOVEMENT 8A
8A010	AIRPORT ASSOCIATED STRIP
8A020	APRON
8A050	ARRESTING GEAR
8A070	DISPLACED THRESHOLD
8A080	HARDSTAND
8A110	HELIPAD
8A120	OVERRUN/BLAST PAD
8A150	RUNWAY/AGEAR

FEATURE CODE	FEATURE
	AIRPORT COMMUNICATIONS 8B
8B020	AIRPORT NAVAID
8B050	POINT TO POINT COMMUNICATIONS
	AIRPORT EMERENCY EQUIPMENT 8C
8C020	SPECIAL PURPOSE VEHICLES
	AIRPORT GENERAL I9NFORMATION 8D
8D020	AIRCRAFT STARTING UNITS
8D060	GARBAGE DISPOSAL
8D080	NON-SITE 30 DATA ELEMENT
8D130	SEWAGE DISPOSAL
8D150	WATER SUPPLY
	AIRPORT LANDFORMS 8E
8E020	LOCATION AND LANDMARKS
8E040	TERRAIN AND DRAINAGE
	AIRPORT PETROLEUM, OIL, & LUBRICANTS POL 8F
8F070	FUEL REFUELING/DISPENSING UNIT
8F130	OFFBASE FUEL STORAGE
8F150	ONBASE FUEL STORGAE
	AIRPORT SECURITY
8G020	ORDNANCE STORAGE
8G070	REVETTED HARDSTAND
8G080	SECURITY
	AIRPORT STRUCTURES 8H
8H020	AIRCRAFT BUNKER
	AIRPORT TRANSPORTATION 8I
8I100	VEHICLES
8I120	WATER TRANSPORTATION
	GENERAL 9
	CONTROL POINTS 9B
9B030	BOUNDARY MARKER
9B035	CONTROL POINT
9B040	DIAGNOSTIC POINT
9B045	ELEVATION POINT
9B070	PRECISE RADAR SIGNIFICANT LOCATION

FEATURE CODE	FEATURE
	MAGNETIC VARIATION INFORMATION 9C
9C040	MAGNETIC DISTURBANCE AREA
	MISCELLANEOUS 9D
9D005	AREA OF RSPS ACCURACY LIMITATIONS
9D010	MEASURED GEOGRAPHIC LOCATION
9D012	MISCELLANEOUS CULTURAL FEATURE
9D015	POINT OF CHANGE
9D020	VOID COLLECTION AREA
9D022	HOMOGENEOUS AGGREGATE FEATURE
9D023	DISSIMILAR AGGREGATE FEATURE
9D040	NAMED LOCATION
9D045	TEXT DESCRIPTION
9D050	GEOMORPHIC LOCATION
9D051	GEOMORPHIC LINE
9D060	VERTICAL RELIABILITY LIMITS
9D066	ANNOTATION DESCRIPTION

FEATURE CODE	FEATURE
6A000	ADMINISTRATIVE BOUNDARY
1Q010	AERIAL CABLEWAY LINE / SKI LIFT LINE
1Q020	AERIAL CABLEWAY PYLON / SKI LIFT PYLON
1R005	AIR OBSTRUCTION LIGHT
8H020	AIRCRAFT BUNKER
1U030	AIRCRAFT FACILITY
1U040	AIRCRAFT FACILITY BEACON
1U025	AIRCRAFT LANDING PAD
8D020	AIRCRAFT STARTING UNITS
8A010	AIRPORT ASSOCIATED STRIP
8B020	AIRPORT NAVAID
1R010	AIRSPACE
1K030	AMUSEMENT PARK
1K020	AMUSEMENT PARK ATTRACTION
2B010	ANCHORAGE
9D066	ANNOTATION DESCRIPTION
1U050	APPROACH LIGHTING
8A020	APRON
1U060	APRON / HARDSTAND
2H010	AQUEDUCT
9D005	AREA OF RSPS ACCURACY LIMITATIONS
6A020	ARMISTICE LINE
8A050	ARRESTING GEAR
4A005	ASPHALT LAKE
1K040	ATHLETIC FIELD
5C010	BAMBOO CANE
1H020	BATTERY
2B020	BERTH
1C010	BLAST FURNACE
4B010	BLUFF / CLIFF, ESCARPMENT
5D010	BOG
2F010	BOTTOM CHARACTERISTICS
9B030	BOUNDARY MARKER
2D010	BREAKERS
2B040	BREAKWATER
1Q040	BRIDGE / OVERPASS / VIADUCT
1Q045	BRIDGE SPAN
1Q050	BRIDGE SUPERSTRUCTURE
1L015	BUILDING
1L018	BUILDING SUPERSTRUCTURE ADDITION
1L020	BUILT-UP AREA
2C010	BUOY
1T005	CABLE
1L025	CAIRN
2B050	CALLING-IN PORT
1K060	CAMPGROUND / CAMPSITE
2H020	CANAL
1P010	CART TRACK
1C020	CATALYTIC CRACKER
4B030	CAVE DWELLING
6A030	CEASE-FIRE LINE
1L030	CEMETERY
1P010	CHIMNEY / SMOKESTACK
2I010	CISTERN
6A040	CLAIM LINE
4A015	CLEARED WAY
2C020	CLEARING LINE
2A010	COASTAL SHORELINE
6C020	COLREGS DEMARCATION LINE
1T050	COMMUNICATIONS FACILITY
1L045	COMPLEX OUTLINE
1Q058	CONSTRICTION
3A010	CONTOUR (LAND)
9B035	CONTROL POINT
1Q060	CONTROL TOWER
1F020	CONVEYOR
1F030	COOLING TOWER
1F040	CRANE
4B060	CREVICE / CREVASSE
2D020	CRIB
5A010	CROPLAND (CULTIVATED)
4C010	CROSS COUNTRY MOVEMENT SPEED RANGE
1Q065	CULVERT
2G010	CURRENT ARROW / FLOW ARROW
2G040	CURRENT DIAGRAM
6C030	CUSTOMS BOUNDARY
4B070	CUT
4B071	CUT LINE
2I020	DAM
6A060	DEFACTO BOUND. / OTHER LINE OF SEPARATION
6A070	DEMILITARIZED ZONE
1M010	DEPOT (STORAGE)
4B080	DEPRESSION
2E015	DEPTH CONTOUR
2E010	DEPTH CURVE
9B040	DIAGNOSTIC POINT
6C035	DIRECTION OF BUOYAGE INDICATOR
2D030	DISCOLORED WATER
1T010	DISH
8A070	DISPLACED THRESHOLD
1L050	DISPLAY SIGN
1B000	DISPOSAL SITE / WASTE PILE
9D023	DISSIMILAR AGGREGATE FEATURE
1Q100	DISTANCE MARKER
2H030	DITCH
2B080	DOLPHIN
1L060	DRAGON (TIGER) TEETH
1P050	DREDGE, POWERSHOVEL, DRAGLINE
6C040	DREDGED CHANNEL / DREDGED AREA
1K070	DRIVE-IN THEATER
1K080	DRIVE-IN THEATER SCREEN
1Q068	DROP GATE / ROLLING BLOCK
2B090	DRYDOCK
1T020	EARLY WARNING RADAR SITE
2D040	EDDIES
2C030	ELECTRONIC BEACON
9B045	ELEVATION POINT
4B090	EMBANKMENT
1F060	ENGINE TEST CELL
4B100	ESKER
1K090	FAIRGROUNDS

FEATURES LISTED BY FACS FEATURE NAMES

FEATURE CODE	FEATURE
4B110	FAULT
1J030	FEED LOT / STOCKYARD / HOLDING PEN
1L070	FENCE
1Q070	FERRY CROSSING
1Q080	FERRY SITE / FERRY SLIP
2H040	FILTRATION / AERATION BEDS
5C015	FIREBREAK
1H045	FIRING RANGE
2H050	FISH HATCHERY
2B110	FISH TRAP / FISH WEIR
2B100	FISHERY / FISH STAKES
2B105	FISHING HARBOR
1L073	FLAGSTAFF / FLAGPOLE
1F070	FLARE PIPE
2H060	FLUME
2H070	FORD
2A020	FORESHORE
1H050	FORT
2D050	FOUL GROUND
8F070	FUEL REFUELING / DISPENSING UNIT
1L075	GALLERY
8D020	GARBAGE DISPOSAL
9D051	GEOMORPHIC LINE
9D050	GEOMORPHIC LOCATION
1L085	GEOPHYSICAL PROSPECTING GRID
4B115	GEOTHERMAL FEATURE
2J020	GLACIAL MORAINE
2J030	GLACIER
1K100	GOLF COURSE
1M020	GRAIN BIN
1M030	GRAIN ELEVATOR
1K110	GRANDSTAND
5B010	GRASSLAND
2B115	GRIDIRON
4A010	GROUND SURFACE
6C070	HARBOR LIMIT
8A080	HARDSTAND
5A020	HEDGEROW
8A110	HELIPAD
9D022	HOMOGENEOUS AGGREGATE FEATURE
1L095	HOMOGENEOUS RADAR SIGNIFICANT AREA
1F080	HOPPER
5D020	HUMMOCK
1L100	HUT
2J040	ICE CLIFF
2J060	ICE PEAK, NUNATAK
2J065	ICE SHELF
2H075	INLAND SHORELINE
6C075	INSHORE TRAFFIC ZONE
1P020	INTERCHANGE
6A110	INTERNATIONAL DATE LINE
6A050	INTERNATIONAL MARITIME BOUNDARY
4B135	ISLAND
2B140	JETTY
2D060	KELP
2H080	LAKE / POND
2H090	LAND SUBJECT TO INUNDATION
5E010	LAND USE / LAND COVER (VEGETATION)
2B150	LANDING PLACE
1U120	LAUNCH PAD
2C040	LEADING LINE
2C050	LIGHT
1L110	LIGHT STANDARD
8E020	LOCATION AND LANDMARKS
2I030	LOCK
9C040	MAGNETIC DISTURBANCE AREA
6C090	MARITIME LIMIT
2B155	MARITIME STATION
2C055	MARKER
5D040	MARSH
6C100	MEASURED DISTANCE LINE
9D010	MEASURED GEOGRAPHIC LOCATION
1A010	MINE
6C110	MINE DANGER AREA
1M040	MINERAL PILE
9D012	MISCELLANEOUS CULTURAL FEATURE
4B145	MISCELLANEOUS OBSTACLE
2H095	MISCELLANEOUS SURFACE DRAINAGE FEATURE
2D000	MISCELLANEOUS UNDERWATER FEATURE
1L120	MISSILE SITE
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1I020	MOBILE HOME PARK
1L130	MONUMENT
1Q110	MOORING MAST
4B150	MOUNTAIN PASS
9D040	NAMED LOCATION
1L135	NATIVE SETTLEMENT
1R030	NAVAIDS
8D080	NON-SITE 30 DATA ELEMENT
1L140	NUCLEAR ACCELERATOR
5A030	NURSERY
5C020	OASIS
8F130	OFFBASE FUEL STORAGE
2B170	OFFSHORE LOADING FACILITY
8F150	ONBASE FUEL STORAGE
2A040	OPEN WATER (EXCEPT INLAND)
5A040	ORCHARD / PLANTATION
8G020	ORDNANCE STORAGE
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2D080	OVERFALLS / TIDE RIPS
1L155	OVERHEAD OBSTRUCTION LOCATION
8A120	OVERRUN / BLAST PAD
1U130	OVERRUN / STOPWAY
2B180	OYSTER OR CULTIVATED SHELLFISH BED
2J070	PACK ICE
1K120	PARK
2H110	PENSTOCK
2D090	PERCH / STAKE
2B190	PIER, WHARF
2D100	PILING
1L160	PIPELINE / PIPE
1L165	PIPELINE/PIPE CROSSING POINT

FEATURE CODE	FEATURE
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1L170	PLAZA / CITY SQUARE
9D015	POINT OF CHANGE
8B050	POINT TO POINT COMMUNICATIONS
2J080	POLAR ICE
1D010	POWER PLANT FACILITY
1T030	POWER TRANSMISSION LINE
1T040	POWER TRANSMISSION PYLON
9B070	PRECISE RADAR SIGNIFICANT LOCATION
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1C000	PROCESSING PLANT / TREATMENT PLANT
6C120	PROHIBITED AREA
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1A030	QUARRY
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1K130	RACE TRACK
6C130	RADAR REFERENCE LINE
1R035	RADAR REFLECTOR
1T045	RADAR TRANSMISSION RADOME
1N010	RAILROAD TRACK
2B220	RAMP
2H120	RAPIDS
4B155	RAVINE, GORGE, CANYON
1K140	RECREATIONAL VEHICLE AREA
2D120	REEF
2D125	REEF POOL
2H130	RESERVOIR
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8G070	REVETTED HARDSTAND
3A020	RIDGE LINE
1A040	RIG / SUPERSTRUCTURE
2B225	RIPRAP
2H140	RIVER / STREAM
2H145	RIVER OR STREAM VANISHING POINT
1P030	ROAD
2D130	ROCK
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6C160	ROUNDABOUT
6C165	ROUTE
1Q116	ROUTE MARKER
1N050	RR SIDING / RR SPUR
1N075	RR TURNTABLE
1N080	RR YARD
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2I040	SLUICE GATE
2D140	SNAG / STUMP
2J100	SNOW FIELD / ICE FIELD
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1D020	SOLAR PANEL
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3A030	SPOT ELEVATION
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4B190	VOLCANIC DIKE

FEATURE CODE	FEATURE
4B180	VOLCANO
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2I050	WATER INTAKE TOWER
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1M080	WATER TOWER
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1K180	ZOO

FEATURE CODE	FEATURE

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CONCLUDING MATERIAL

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Preparing Activity:
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(Project MCGT-0036)

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