National Mapping Program
Technical Instructions

Part 6
Built-up

Standards for 1:24,000-Scale Digital Line Graphs and Quadrangle Maps

U.S. Department of the Interior
U.S. Geological Survey
National Mapping Division

CONTENTS

CONTENTS

CONTENTS

LIST OF PAGES

A complete and current copy of Part 6 of <u>Standards for 1:24,000-Scale Digital Line Graphs and Quadrangle Maps</u> consists of the pages (and most recent creation or revision dates) listed below.

Page	Date	Page	Date	Page	Date
6-84	4/96	6-120	4/96	6-156	4/96
6-85	4/96	6-121	4/96	6-157	4/96
6-86	4/96	6-122	4/96	6-158	4/96
6-87	4/96	6-123	4/96	6-159	4/96
6-88	4/96	6-124	4/96	6-160	4/96
6-89	4/96	6-125	4/96	6-161	4/96
6-90	4/96	6-126	4/96	6-162	4/96
6-91	4/96	6-127	4/96	6-163	4/96
6-92	4/96	6-128	4/96	6-164	4/96
6-93	4/96	6-129	4/96	6-165	4/96
6-94	4/96	6-130	4/96	6-166	4/96
6-95	4/96	6-131	4/96	6-167	4/96
6-96	4/96	6-132	4/96	6-168	4/96
6-97	4/96	6-133	4/96	6-169	4/96
6-98	4/96	6-134	4/96	6-170	4/96
6-99	4/96	6-135	4/96	6-171	4/96
6-100	4/96	6-136	4/96	6-172	4/96
6-101	4/96	6-137	4/96	6-173	4/96
6-102	4/96	6-138	4/96	6-174	4/96
6-103	4/96	6-139	4/96	6-175	4/96
6-104	4/96	6-140	4/96	6-176	4/96
6-105	4/96	6-141	4/96	6-177	4/96
6-106	4/96	6-142	4/96	6-178	4/96
6-107	4/96	6-143	4/96	6-179	4/96
6-108	4/96	6-144	4/96	6-180	4/96
6-109	4/96	6-145	4/01	6-181	4/96
6-110	4/96	6-146	4/96	6-182	4/96
6-111	4/96	6-147	4/96	6-183	4/96
6-112	4/96	6-148	4/96	6-184	4/96
6-113	4/96	6-149	4/96	6-185	4/96
6-114	4/96	6-150	4/96	6-186	4/96
6-115	4/96	6-151	4/96	6-187	4/96
6-116	4/96	6-152	4/96	6-188	4/96
6-117	4/96	6-153	4/96	6-189	4/96
6-118	4/96	6-154	4/96	6-190	4/96
6-119	4/96	6-155	4/96	6-191	4/96

Page	Date	Page	Date	Page	Date
6-192	4/96	6-228	4/96	6-264	4/96
6-193	4/96	6-229	4/96	6-265	4/01
6-194	4/96	6-230	4/01	6-266	4/01
6-195	4/96	6-231	4/01	6-267	4/96
6-196	4/96	6-232	4/01	6-268	4/96
6-197	4/96	6-233	4/96	6-269	4/96
6-198	4/96	6-234	4/96	6-270	4/96
6-199	4/96	6-235	4/96	6-271	10/99
6-200	4/96	6-236	4/96	6-272	4/96
6-201	4/96	6-237	4/96	6-273	4/96
6-202	4/96	6-238	4/96	6-274	4/96
6-203	4/96	6-239	4/96	6-275	4/96
6-204	4/96	6-240	4/96	6-276	4/96
6-205	4/96	6-241	4/96	6-277	4/96
6-206	4/96	6-242	4/96	6-278	4/96
6-207	4/96	6-243	4/96	6-279	4/96
6-208	4/96	6-244	4/96	6-280	4/96
6-209	4/96	6-245	4/96	6-281	4/96
6-210	4/96	6-246	4/96	6-282	4/96
6-211	4/96	6-247	4/96	6-283	4/96
6-212	4/96	6-248	4/96	6-284	4/96
6-213	4/96	6-249	4/96	6-285	4/96
6-214	4/96	6-250	4/96	6-286	4/96
6-215	4/01	6-251	4/96	6-287	4/96
6-216	4/96	6-252	4/96	6-288	4/96
6-217	4/96	6-253	4/96	6-289	4/96
6-218	4/96	6-254	4/96	6-290	4/96
6-219	4/96	6-255	4/96	6-291	4/01
6-220	4/96	6-256	4/96	6-292	4/96
6-221	4/96	6-257	4/96	6-293	4/96
6-222	4/96	6-258	4/96	6-294	4/96
6-223	4/96	6-259	4/96	6-295	4/96
6-224	4/96	6-260	4/96	6-296	4/96
6-225	4/96	6-261	4/96	6-297	4/96
6-226	4/96	6-262	4/96	6-298	4/96
6-227	4/96	6-263	4/96	6-299	4/96

Standards for 1:24,000-Scale Digital Line Graphs and Quadrangle Maps
Part 6: Built-up

Page	Date	Page	Date	Page	Date
6-300	4/96				
6-301	4/96				
6-302	4/96				
6-303	4/96				
6-304	4/96				
6-305	4/96				
6-306	4/01				
6-307	4/96				
6-308	4/96				
6-309	4/96				
6-310	4/96				

AQUACULTURE SITE - A set of pools of water and related structures used for producing finfish, shellfish, or aquatic plants.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of AQUACULTURE SITE is the area encompassing the RESERVOIRS, BUILDINGS, and other associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   AQUACULTURE_SITE_A001
Dimension: 2

NAM

Aquaculture
Site

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

IF AQUACULTURE SITE coincides RESERVATION, and AQUACULTURE SITE Name = RESERVATION Name,
Then do not show AQUACULTURE SITE Name.

Placement

TBD

EXAMPLES

Catoctin Furnace, MD
Cecilia, LA
Hayward, WI
Holmesville, OH

ARCHEOLOGICAL SITE/RUIN - An area of scientific interest that contains the material remains of past human activities

ATTRIBUTE/ATTRIBUTE VALUE LIST

Archeological Site/Ruin Category	Form or category
Archeological Site	Study area for past human life and activity
Cliff Dwelling	A habitat built in the recesses of high vertical or over-hanging faces of rock
Petroglyph	Ancient carving or engraving on rock
Pictograph	Ancient line drawing or painting on rock
Ruins	Deteriorated structural remains of historic importance
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of ARCHEOLOGICAL SITE/RUIN is the extent of the area containing the material remains.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If ARCHEOLOGICAL SITE/RUIN has Archeological Site/Ruin Category = Petroglyph or Pictograph,
Then ARCHEOLOGICAL SITE/RUIN is represented as a 0-dimensional basic feature object.

If ARCHEOLOGICAL SITE/RUIN has Archeological Site/Ruin Category = Ruins or Archeological Site,
and is < 0.06" along the shortest axis,
Then ARCHEOLOGICAL SITE/RUIN is represented as a 0-dimensional basic feature object.

If ARCHEOLOGICAL SITE/RUIN has Archeological Site/Ruin Category = Cliff Dwelling and is < 0.0375" along the longest axis,
Then ARCHEOLOGICAL SITE/RUIN is represented as a 0-dimensional basic feature object.

If ARCHEOLOGICAL SITE/RUIN has Archeological Site/Ruin Category = Cliff Dwelling and is ≥ 0.0375" along the longest axis,
Then ARCHEOLOGICAL SITE/RUIN is represented as a 1-dimensional basic feature object.

If ARCHEOLOGICAL SITE/RUIN has Archeological Site/Ruin Category = Ruins or Archeological Site,
and is ≥ 0.06" along the longest axis,
Then ARCHEOLOGICAL SITE/RUIN is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If ARCHEOLOGICAL SITE/RUIN is controlled and protected by a government or private agency, and that agency has given USGS permission to capture ARCHEOLOGICAL SITE/RUIN,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

ARCHEOLOGICAL SITE/RUIN, with Archeological Site/Ruin Category = Ruins, can be individual structures or an area of ruined structures. If the individual structural outlines are indefinite, and present few complete outlines, capture the general ruin site as 2-dimensional; otherwise capture each structure by its structural ruin outline, either 0-dimensional or 2-dimensional.

Approval of the administering agency is mandatory before any ARCHEOLOGICAL SITE/RUIN is captured.

Graphic

In the past, the label "Ruins" has been used to identify landmark structures in a state of disrepair, in addition to ruins which are truly of historical importance. It is not possible to tell these two situations apart from the graphic. All features labeled "Ruins" need to be further identified. Those features which are actually deteriorated structures, of no historic importance, will be recategorized as the appropriate feature.

Heiau, in Hawaii, are historic temples or religious sites and are captured as ARCHEOLOGICAL SITE/RUIN with the approval of the National Park Service.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features only if capture conditions are met.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#: ARCHEOLOGICAL_SITE_RUIN_P001
Dimension: 0

NAM

ASC

Attribute	Value	Symbol Specs	Type Specs
Archeological Site/Ruin Category	Archeological Site or Ruins	Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol	**Archeological Site/Ruin Category and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified	Square Color: Black Lineweight: 0.003" Dimension 1: 0.02" Dimension 2: 0.02"	

Symbol#: ARCHEOLOGICAL_SITE_RUIN_P002
Dimension: 0

| NAM |
| ASC |

Attribute	Value	Symbol Specs	Type Specs
Archeological Site/Ruin Category	Cliff Dwelling	Rectangle Color: Black Lineweight: 0.003" Positioning: center longest side of rectangle on uphill side of baseline Dimension 1: 0.02" Dimension 2: 0.03"	**Archeological Site/Ruin Category and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		
		Symbol Orientation Orientation: position baseline parallel to contours Origin: center of rectangle	
		Baseline Color: Black Lineweight: 0.003" Length: 0.06"	

Symbol#:   ARCHEOLOGICAL_SITE_RUIN_P003
Dimension: 0
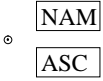
NAM

ASC

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Archeological Site/Ruin Category	Petroglyph or Pictograph	Circle Color: Black Lineweight: 0.003" Diameter: 0.04"	**Archeological Site/Ruin Category and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified	Dot Color: Black Diameter: 0.006" Positioning: centered in circle	
		Symbol Orientation Origin: center of symbol	

Symbol#:   ARCHEOLOGICAL_SITE_RUIN_L001
Dimension: 1
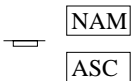
NAM

ASC

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Archeological Site/Ruin Category	Cliff Dwelling	Rectangle Color: Black Lineweight: 0.003" Positioning: center longest side of rectangle on uphill side of baseline	**Archeological Site/Ruin Category and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified	Baseline Color: Black Lineweight: 0.003"	

Symbol#:   ARCHEOLOGICAL_SITE_RUIN_A001
Dimension: 2

NAM

ASC

Attribute	Value	Symbol Specs	Type Specs
Archeological Site/Ruin Category	Archeological Site or Ruins	Dashed Area Perimeter Color: Black Lineweight: 0.003"	**Archeological Site/Ruin Category and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Dash Length: 0.04" Dash Spacing: 0.02"	Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Andersonville, OH (Mound City Group National Monument)
Cochiti Dam, NM (Pueblo Ruins)
Hog ISland, VA (Kingsmill Plantation Site)
Huntoon Valley, NV-CA
Monks Mound, IL (Cahokia Mounds State Park)
Selah, WA (Petroglyphs)

ATHLETIC FIELD - A defined, but often unbounded, open area constructed and maintained for the purpose of holding sporting events and activities.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of ATHLETIC FIELD is the perimeter of the open area maintained for a sporting activity or event, including associated structures within the playing field.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If ATHLETIC FIELD is not located within PARK,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Do not capture a shooting range on a military reservation as ATHLETIC FIELD. See
RESERVATION.

Capture shooting/firing ranges not on military reservations, including those used for archery, rifle,
pistol, and skeet shooting; ball parks; equestrian areas; and polo fields as ATHLETIC FIELD.

Do not capture individual ball diamonds or tennis courts as ATHLETIC FIELD.

Graphic

Do not capture areas labeled "Recreation Area" as ATHLETIC FIELD. See PARK.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: ATHLETIC_FIELD_A001
Dimension: 2

NAM

Athletic Field

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.008" Dash Length: 0.05" Dash Spacing: 0.02" Screen: 50%, 150-line biangle	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-7 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        If ATHLETIC FIELD symbol_coalesces BUILDING, BOUNDARY LINE, RAILWAY, or ROAD,
Then suppress the dashed area perimeter where they coalesce and extend remaining segments to meet the other feature.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            If ATHLETIC FIELD is associated with a school or university,
Then do not show label.

Placement

TBD

EXAMPLES

Abilene East, TX (Ball park)
Albuquerque West, NM
Annapolis, MD (Rifle and pistol ranges)
Beaver Creek Hills, WY (Polo field and landing strip)
Beverly Hills, CA
Brooklyn, NY
Buffalo NE, NY
Burbank, CA (Equestrian area)
Cheyenne North, WY (Baseball park)
Ellensburg South, WA (Baseball park)
Fort Hood, TX (Ball park)
Frederickson, WA (Skeet range, rifle range)
Louisville West, KY-IN
Tarpon Springs, FL
Thatcher, AZ

BOARDWALK - A promenade, usually constructed of planks.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of BOARDWALK is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		< 0.02"	
2-dimensional		≥ 0.02"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If BOARDWALK is along a beach or waterfront,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

When determining whether to collect BOARDWALK as a 1-dimensional or 2-dimensional feature, the
predominant width of the entire feature should be assessed. Minor structural projections should be
disregarded when determining feature width.

If BOARDWALK is captured to scale, minor structural projections, such as entryways onto
BOARDWALK or onto BEACH, should be disregarded, and the generalized outline should be
captured.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   BOARDWALK_L001
Dimension: 1

NAM
BOARDWALK

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Casing Color: Black Lineweight: 0.003" Line Spacing: 0.02"	**Label and Name:** Color: Black Style: UI CAPS Size: 6 Spacing: 0

Symbol#:   BOARDWALK_A001
Dimension: 2

NAM
BOARDWALK

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.003"	**Label and Name:** Color: Black Style: UI CAPS Size: 6 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Atlantic City, NJ (1-D and 2-D BOARDWALKS)
Ocean City, NJ (1-D and 2-D BOARDWALKS)

BUILDING - A permanent construction that is roofed and usually walled.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Building Type	Function or purpose
Arena	
Armory	
Auditorium	
Capitol	
City Hall	
Community Center	
Courthouse	
Firehouse	
Grain Elevator	
Grange Hall	
Hospital	
House of Worship	
Library	
Medical Center	
Memorial	
Museum	
Observatory	
Post Office	
Radio Facility	
Railroad Station	
Rain Shed	A roofed structure in Hawaii for collecting and storing rain water
School	

Stadium   A large usually unroofed building with tiers of seats for
                                                 spectators at sports events.

Substation

Town Hall

Unspecified   The value is not known and is not required

Name   Proper name, specific term, or expression

  (Alphanumeric)   Length Value: 99

  Unspecified   The value is not known and is not required

Photorevision Category   Whether or not a feature was added or modified as part of a
                                                 photorevision assignment

  Not Photorevised   Feature was compiled from aerial photographs and other
                                                 sources as part of a revision assignment that included field
                                                 checks, if required

  Photorevised   Feature was compiled from aerial photographs and other
                                                 sources as part of a revision assignment that did not include
                                                 field checks

DELINEATION

The limit of BUILDING is the extent of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT
Is Above		UNDERPASS

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			<0.05"
1-dimensional			
2-dimensional			$\geq$0.05"

Special Conditions:

DATA EXTRACTION

Capture Conditions

If BUILDING is outside of BUILT-UP AREA and houses human activity,
Or
If BUILDING is outside of BUILT-UP AREA, and is not intended for human activity, and is not smaller than the average local dwelling,
Or
If BUILDING is outside of BUILT-UP AREA and is landmark,
Or
If BUILDING is within BUILT-UP AREA and can be described as one of the following public-use BUILDINGS: arena, auditorium, armory, capitol, city hall, community center, courthouse, firehouse, hospital, house of worship, library, medical center, memorial, museum, post office, railroad station, school, stadium, or town hall,
Or
If BUILDING is within BUILT-UP AREA and is $\geq$ 0.02 square inches (80,000 square feet at 1:24,000-scale),
Then capture.

Attribute Information

If BUILDING is a church, cathedral, mosque, synagogue, convent, temple, shrine, monastery, or other similar institution,
Then Building Type = House of Worship.

If BUILDING is a public or private school, college, or university,
Then Building Type = School.

If BUILDING has radio antennae mounted on it and the primary function of BUILDING is as a Radio Facility,
Then Building Type = Radio Facility.

Source Interpretation Guidelines

All

In congested areas, some buildings may be collected to size and other buildings may be omitted, displaced, or reduced in size. The following three paragraphs deal with BUILDING guidance in congested areas.

If a block has one or more relatively large buildings and several smaller buildings, capture larger buildings and omit smaller buildings.

If building symbols touch or overlap, displace or proportionally adjust buildings so that the symbol pattern approximates the true ground pattern.

In a row of buildings, where not all buildings can be portrayed, capture the first and last building in true position, then capture as many other buildings as will fit in-between, displacing buildings as necessary.

Collect Houses of Worship and Schools that are easily identifiable and occupy separate buildings with some open ground. Buildings used for worship services, but not designed as Houses of Worship, are not captured as Houses of Worship.

Graphic

Revision - General

If BUILDING is captured to scale, minor structural projections < 0.02" x 0.02" should be disregarded, and the generalized outline should be captured.

When an educational institution consists of a group of BUILDINGS, capture only the administration building as BUILDING, with Building Type = School. (If it is not clear which BUILDING is the administration building, then capture the largest BUILDING as BUILDING, with Building Type = School). The remainder of the BUILDINGS will be captured as BUILDING, with Building Type to indicate any specialized use (other than school). If there is no other specialized use, they will be captured as BUILDING with Building Type = Unspecified.

When a religous institution consists of a group of BUILDINGS, capture only the main house of worship as BUILDING, Building Type = House of Worship. The remainder of the BUILDINGS will be captured as BUILDINGS, with Building Type to indicate any specialized use (other than House of Worship). If there is no other specialized use, they will be captured as BUILDING, Building Type =

Unspecified.

Revision - Standard

Revision - Limited

Do not capture BUILDING within areas that are collected as BUILT-UP AREA. Delete existing buildings inside BUILT-UP AREA.

Capture BUILDING only in areas where BUILT-UP AREA is not captured. Newly captured buildings will have Building Type = Unspecified. Existing buildings will be given Building Type = Unspecified.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   BUILDING_P001
Dimension: 0

NAM

.

BDT

Attribute	Value	Symbol Specs	Type Specs
Building Type	Arena, Armory, Auditorium, Capitol, City Hall, Community Center, Courthouse, Firehouse, Grain Elevator, Grange Hall, Hospital, Library, Medical Center, Memorial, Museum, Observatory, Post Office, Radio Facility, Railroad Station, Stadium, Substation, Town Hall, or Unspecified	Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol Filled Square Color: Black Screen: 100% Dimension 1: 0.02" Dimension 2: 0.02"	**Building Type and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		

Symbol#:   BUILDING_P002
Dimension: 0

NAM

Attribute	Value	Symbol Specs	Type Specs
Building Type	House of Worship	Cross Color: Black Lineweight: 0.003" Positioning: one end of longer line placed at 90-degrees to the center of northernmost edge of square. Lines bisect each other Line 1 Length: 0.04" Line 2 Length: 0.025" Intersect Angle: 90˚	**Name:** Color: Black Style: SL CAPS or C/lc Size: 6-7 Spacing: 0
Name	(Alphanumeric) or Unspecified		
		Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol	
		Filled Square Color: Black Screen: 100% Dimension 1: 0.02" Dimension 2: 0.02"	

Symbol#:   BUILDING_P003
Dimension: 0

NAM

Attribute	Value	Symbol Specs	Type Specs
Building Type	School	**Line** Color: Black Lineweight: 0.003" Length: 0.04" Positioning: one end placed at 90° to center of northernmost edge of square	**Name:** Color: Black Style: SL CAPS or C/lc Size: 6-7 Spacing: 0
Name	(Alphanumeric) or Unspecified		

Symbol Orientation
Orientation: parallel to south projection line
Origin: center of square

Filled Square
Color: Black
Screen: 100%
Dimension 1: 0.02"
Dimension 2: 0.02"

Filled Triangle
Color: Black
Screen: 100%
Positioning: base placed coincident with end of line, triangle pointing to right of line
Base: 0.02"
Height: 0.03"

Symbol#: BUILDING_A001
Dimension: 2

■ ⬛ NAM
⬛ BDT

Attribute	Value	Symbol Specs	Type Specs
Building Type	Arena, Armory, Auditorium, Capitol, City Hall, Community Center, Courthouse, Firehouse, Grain Elevator, Grange Hall, Hospital, Library, Medical Center, Memorial, Museum, Observatory, Post Office, Radio Facility, Railroad Station, Stadium, Substation, Town Hall, or Unspecified	Area Fill Color: Black Screen: 100%	**Building Type and Name:** Color: Black Style: UL CAPS or C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		

Symbol#: BUILDING_A002
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Building Type	House of Worship	Area Fill Color: Black Screen: 100%	**Name:** Color: Black Style: SL CAPS or C/lc Size: 6-7 Spacing: 0
Name	(Alphanumeric) or Unspecified	Cross Color: Black Lineweight: 0.003" Positioning: one end of longest line placed at 90-degrees to center of northernmost edge of area. Lines bisect each other Line 1 Length: 0.04" Line 2 Length: 0.025" Intersect Angle: 90˚	

Symbol#:   BUILDING_A003
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Building Type	School	Area Fill Color: Black Screen: 100%	**Name:** Color: Black Style: SL CAPS or C/lc Size: 6-7 Spacing: 0
Name	(Alphanumeric) or Unspecified	Line Color: Black Lineweight: 0.003" Length: 0.04" Positioning: one end placed at 90-degrees to center of northernmost edge of area	
		Filled Triangle Color: Black Screen: 100% Positioning: base placed coincident with end of line, triangle pointing to right of line Base: 0.02" Height: 0.03"	

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If BUILDING symbol_coalesces 1-D BOARDWALK, BRIDGE, CANAL/DITCH, DAM/WEIR, EMBANKMENT, FENCE LINE, FISH LADDER, FLUME, GATE, LOCK CHAMBER, PIER/BREAKWATER/JETTY, PIPELINE with Relationship to Surface = At or Near, RACETRACK, RAILWAY, RECREATIONAL SLIDE, ROAD, RUNWAY/APRON/TAXIWAY, WHARF, Then symbol_displace to clear by 0.005" in the direction normal to the linear feature. [This rule will require further development. (If a linear feature has an irregular course like STREAM/RIVER, TRAIL, then linear feature is displaced rather than the BUILDING...need to adjust STREAM/RIVER and TRAIL)]

If BUILDING is 0-D and symbol_coalesces BOUNDARY LINE, Then symbol_displace to clear by 0.005" in the direction normal to the BOUNDARY LINE. (If BUILDING coincides BOUNDARY LINE, do not displace)

If BUILDING is 0-D and symbol_coalesces projection line, Then symbol_displace to clear by 0.005".

If BUILDING is 0-D and coincides a horizontal control station,
Then suppress_symbol. (Retain label if appropriate)

If BUILDING symbol_coalesces horizontal control station,
Then symbol_displace.

If BUILDING is 2-D and coincides a horizontal control station,
Then suppress_section.

If BUILDING is 0-D, with Building Type = House of Worship or School, and BUILDING (the cross
portion of house of worship symbol, or the pennant portion of the school symbol) coalesces another feature,
Then orient_symbol section (the cross portion of the house of worship symbol, or the pennant portion of
the school symbol) to halfway along another side of the square. The hierarchy of sides shall be north, east,
west, south, 45 degrees at the N.E. corner, 45 degrees at the N.W. corner. If the orientation of a 0-D
BUILDING is such that there is no northernmost edge, then the northeastern edge shall be considered to be
the northernmost.

If BUILDING is 2-D, with Building Type = House of Worship or School, and BUILDING (the cross
portion of the house of worship symbol, or the pennant portion of the school symbol) coalesces another
feature,
Then orient_symbol section (the cross portion of the house of worship symbol, or the pennant portion of
the school symbol) to alternate position. The hierarchy for the alternate position shall be, to the right of the
middle of the northernmost side of the area, to the left of the middle of the northernmost side of the area, to
the middle of the east, west, south side of the area, 45 degrees at the N.E. corner, 45 degrees at the N.W.
corner.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will
continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Alexandria, VA-DC
Falls Church, VA-MD
Linden, VA

BUILT-UP AREA - An area of intensive use, with much of the land covered by structures.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of BUILT-UP AREA shall be defined by the extent of the area of intensive use.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If BUILT-UP AREA is $\geq$ 30% built-up, and is $\geq$ 40 acres in size, and is $\geq$ 660 feet along the shortest axis,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

The limits of BUILT-UP AREA are determined by the relative concentration of buildings and
associated intensive use areas, such as parking lots, and the existence of a systematic street pattern.
Density of building and associated use areas will vary from densely concentrated areas downtown, to
moderately concentrated residential areas where most of the property is developed.

Areas which are < 30% developed, and which are $\geq$ 80 acres in size, and are $\geq$ 660 feet along the
shortest axis, will not be collected as BUILT-UP AREA.

If the following features meet capture conditions for that feature,
Then do not collect BUILT-UP AREA:
Lake/Pond
Reservoir
2-D Stream/River
2-D Canal/Ditch
Swamp/Marsh
Railway Yard
Park
Athletic Field (other than tracks)
Cemetery
Golf Course
Exhibition Ground
Outdoor Theater
Runway/Apron/Taxiway
All other features are collected based on their individual capture conditions, and BUILT-UP AREA is
also collected.

BUILT-UP AREA does not refer to political boundaries and may include incorporated and
unincorporated areas as well as military reservations.

Although BUILT-UP AREA limits need not be fixed in relation to linear features, where practical, the
limits of BUILT-UP AREA should share the edge with other linear features such as ROADS,
RAILWAYS, STREAM/RIVERS, BOUNDARY LINES, etc.

The outline of BUILT-UP AREA should be relatively smooth. It should not be extended to include a

few buildings nor to exclude a few buildings when the smoothness of the edge would be effected. When the perimeter streets are ≥ 30% developed, the BUILT-UP AREA should be extended across the street to include these buildings.

In housing developments where the street network is complete and building development is well underway and can be anticipated that most of the development will be occupied, the area should be included in BUILT-UP AREA.

Narrow strips where there is only a road and buildings along both sides of the road should not be included even if they would connect an adjoining larger area that meets capture conditions.

A large BUILT-UP AREA that is separated from a smaller isolated BUILT-UP AREA, may be extended to include the smaller area, if the smaller area is within 660 feet of the larger BUILT-UP AREA.

Graphic

The minimum allowable size, density criteria, and exclusions for BUILT-UP AREA have been revised. There will be areas on the graphic which are shown with a dense coverage of building symbols, which previously did not meet the minimum requirements for inclusion, but now do. These areas will be captured as BUILT-UP AREA.

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization
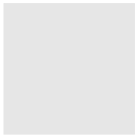
Symbol#:   BUILT_UP_AREA_A001
Dimension: 2

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Area Fill Color: Black Screen: 8%, 120-line at 45°	N/A

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

    Austin East, TX
    Austin West, TX
    Park Ridge, IL

CABLE/PIPELINE SITE - An area where cables or pipelines are located under water.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Cable/Pipeline Site Type	Function or purpose
Cable	
Pipeline	
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of CABLE/PIPELINE SITE is the extent of the area as shown on NOS charts or U.S. Lake Survey Charts.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If CABLE/PIPELINE SITE is shown on a NOS chart or on a U.S. Lake Survey Chart,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Capture all areas labeled "CABLE AREA", "PIPELINE AREA", or "CABLE-PIPELINE AREA" as
CABLE/PIPELINE SITE.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

                                                        Symbol#: CABLE_PIPELINE_SITE_A001
                                                        Dimension: 2

    — — — — — — — — —
      | CPT | AREA
    — — — — — — — — —

Attribute	Value	Symbol Specs	Type Specs
Cable/Pipeline Site Type	Cable or Pipeline	<u>Dashed Area Perimeter</u> Color: Black Lineweight: 0.003" Dash Length: 0.1" Dash Spacing: 0.02"	**Cable/Pipeline Site Type and Label:** Color: Black Style: UI CAPS Size: 5-7 Spacing: 0
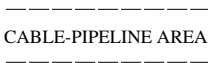
                                                        Symbol#: CABLE_PIPELINE_SITE_A002
                                                        Dimension: 2

    — — — — — — — — —
    CABLE-PIPELINE AREA
    — — — — — — — — —

Attribute	Value	Symbol Specs	Type Specs
Cable/Pipeline Site Type	Cable or Pipeline	<u>Dashed Area Perimeter</u> Color: Black Lineweight: 0.003" Dash Length: 0.1" Dash Spacing: 0.02"	**Label:** Color: Black Style: UI CAPS Size: 5-7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If perimeter of CABLE/PIPELINE SITE coincides SHORELINE, NONEARTHEN SHORE, or WHARF, Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Mare Island, CA (Pipeline area)
Milwaukee, WI (Cable area in Lake Michigan)
Port Townsend North, WA (Cable area)
Sanibel, FL (Cable area)

CABLEWAY - A conveyor system in which carrier units are suspended from wire cables strung between supports.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Cableway Type	Function or purpose
Ski Lift	Used to transport people at ski areas
Unspecified	The value is not known and is not required
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of CABLEWAY is the extent of the cables and the supports.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Do not capture rope tows.

Do not capture logging cableways that are used only during timber harvesting operations and then removed.

Do not capture a tramway running on tracks (even though pulled by a cable) as CABLEWAY. See RAILWAY.

Graphic

"Aerial Tramway" and "Tramway" will be captured as CABLEWAY.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

<u>Inclusion Conditions</u>

All required

<u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

<u>Symbolization</u>

Symbol#:   CABLEWAY_L001
Dimension: 1

NAM   SKI LIFT
— — — — — — — —

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Cableway Type	Ski Lift	<u>Dashed Line</u>	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or	Lineweight: 0.005"	Style: UI CAPS
	Unspecified	Dash Length: 0.1"	Size: 6
		Dash Spacing: 0.02"	Spacing: 0

Symbol#:   CABLEWAY_L002
Dimension: 1

NAM   CABLEWAY
— — — — — — — —

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Cableway Type	Unspecified	<u>Dashed Line</u>	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or	Lineweight: 0.005"	Style: UI CAPS
	Unspecified	Dash Length: 0.1"	Size: 6
		Dash Spacing: 0.02"	Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

If Name or Label cannot be positioned parallel to the symbol,
Then change to:

Style: UL C/lc
Size: 7
Spacing: 0

EXAMPLES

Aspen, CO (Ski lifts, ski tows)
Calloway Butte, AZ (Tramway)
Dolores Peak, CO (Aerial tram - abandoned)
Florence, AL (River gaging aerial tramway)
Tahoe City, CA (Aerial tramway, ski lifts)
Teton Village, WY (Aerial tramway, ski lift)
Whiskeytown, CA (Tramway - tower at angle point)

CAMPGROUND - A designated area on which primitive structure(s) may be erected for temporary shelter and/or where recreational vehicles are temporarily parked.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Campground Type	Function or purpose
Campground	A permanent facility that provides some, but not necessarily all, facilities such as running water, toilet, improved roads, recreational vehicle parking, bath house, table, or grill
Campsite	Primitive campground lacking all facilities

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of CAMPGROUND is the edge of the area developed for camping.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If CAMPGROUND is not a campsite, and is for public use, and is not in a Wilderness Area,
Or
If CAMPGROUND is a campsite whose location is provided by the U.S. Forest Service,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

If a campground or campsite is shown with the tepee symbol and the area limits cannot be determined,
Then capture as a 0-dimensional feature at the apex of the triangle portion of the tepee symbol.

If Campground Type = Campsite and there is no located object symbol,
Then capture as a 0-dimensional feature in the most logical open area, using the type placement as a guide.

If located object symbol is labeled Cow Camp or Hunter Camp,
Then Campground Type = Campsite. Do not capture other features labeled Camp as Campground.
See LOCALE.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: CAMPGROUND_P001
Dimension: 0

Attribute	Value	Symbol Specs	Type Specs
Campground Type	Campground	**Symbol Orientation** Orientation: base parallel to south projection line Origin: center of symbol **Symbol** Color: Red Height: 0.17"	N/A

Symbol#:   CAMPGROUND_P002
Dimension: 0

⊙ Campsite

Attribute	Value	Symbol Specs	Type Specs
Campground Type	Campsite	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If CAMPGROUND, with Campground Type = Campsite symbol_coalesces another feature symbol, Then suppress_symbol and retain label.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Haena, HI (Kawaiboi Camp, Sugi Grove Camp)
Monarch Lake, CO
Mt. Wilson, CA
North Chalone Peak, CA
Schonchin Butte, CA

CEMETERY - A burial ground.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Cemetery Type	Function or purpose
Animal	
Human	
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of CEMETERY is the edge of the tended area or the outline of the group of graves if the cemetery is abandoned (untended) and has no fence.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		< 0.06"	
1-dimensional			
2-dimensional		≥ 0.06"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If CEMETERY is for human remains,
Or
If CEMETERY is for animal remains and is ≥ 0.06" along the shortest axis,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Do not capture Indian Burial Mounds as CEMETERY. See MOUNT and ARCHEOLOGICAL SITE.

Graphic

If an individual cross symbol is labeled "Grave" or "Graves",
Then capture as a 0-Dimensional CEMETERY.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#: CEMETERY_P001
Dimension: 0

NAM

□

Cem

Attribute	Value	Symbol Specs	Type Specs
Cemetery Type	Human	Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		
		Square Color: Black Lineweight: 0.003" Dimension 1: 0.04" Dimension 2: 0.04"	

Symbol#: CEMETERY_A001
Dimension: 2

NAM
Cemetery
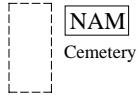
Attribute	Value	Symbol Specs	Type Specs
Cemetery Type	Human	Dashed Area Perimeter	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or	Lineweight: 0.003"	Style: UL C/lc
	Unspecified	Dash Length: 0.04"	Size: 7
		Dash Spacing: 0.02"	Spacing: 0

Symbol#: CEMETERY_A002
Dimension: 2

NAM
Animal
Cemetery
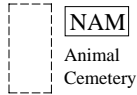
Attribute	Value	Symbol Specs	Type Specs
Cemetery Type	Animal	Dashed Area Perimeter	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or	Lineweight: 0.003"	Style: UL C/lc
	Unspecified	Dash Length: 0.04"	Size: 7
		Dash Spacing: 0.02"	Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If the perimeter of a 2-dimensional CEMETERY symbol_coalesces with another feature symbol, except FENCE LINE, or TRANSMISSION LINE,
Then suppress dashed area perimeter where they coalesce and extend remaining segments to meet linear features.

If CEMETERY symbol_coalesces RESERVATION,
Then suppress CEMETERY name and CEMETERY label.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If Name does not include "Cemetery" or "Cem.",
Then add label in parenthesis after name.

Placement

TBD

EXAMPLES

Cahuilla Mtn., CA
Charlottseville East, VA (Holly Mem. Gardens (Cem.) 2-D)
Charlottseville East, VA (Maplewood Cem. 2-D)
Laguna Beach, CA (Pacific View Memorial Park (Cem.) 2-D)
Lanett North, GA-AL (Lovelace Cem. 0-D)
Laveen, AZ (Cemetery 2-D)
Long Beach, CA (Cem. 2-D)
Merced, CA (Evergreen Cem. 2-D)
San Antonio West, TX (Animal Cem. 2-D)
San Pasquel, CA ("Cem." 2-D)
Santa Barbara, CA (Santa Barbara Cemetery 2-D)
Shenandoah, VA (2-D)
Smithville East, GA (Cem. 0-D)
Torrance, CA (Pet Cem. 2-D)

CHIMNEY - A structure containing a passage or flue for discharging combustion smoke and gases.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limits of CHIMNEY are the edges of the structure.

REPRESENTATION RULES

Feature Relationships

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST AXIS	LONGEST AXIS
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If CHIMNEY is ≥ 60 feet in height,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Graphic

If located object symbol is labelled "Stack" then capture as the feature CHIMNEY.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: CHIMNEY_P001
Dimension: 0

⊙   Chimney

Attribute	**Value**	**Symbol Specs**	**Type Specs**
N/A	N/A	<u>Circle</u> Color: Black Lineweight: 0.003" Diameter: 0.04" <u>Dot</u> Color: Black Diameter: 0.006" Positioning: centered in circle <u>Symbol Orientation</u> Origin: center of symbol	**Label:** Color: Black Style: UL C/lc Size: 6 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        If CHIMNEY coincides a horizontal control station,
Then suppress_symbol. (retain label if appropriate)

        If CHIMNEY symbol_coalesces a horizontal control station,
Then symbol_displace.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Galveston, TX
San Fransisco South, CA
Trenton West, NJ-PA

CONVEYOR - Any permanent mechanism, such as continuous moving belt, that transports materials from one place to another.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of CONVEYOR is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If CONVEYOR is ≥ 0.5" along the longest axis,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   CONVEYOR_L001
Dimension: 0

CONVEYOR
— — — — — — — — —

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Dashed Line	**Label:**
		Color: Black	Color: Black
		Lineweight: 0.005"	Style: UI CAPS
		Dash Length: 0.1"	Size: 5-7
		Dash Spacing: 0.02"	Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Maysville West, KY-OH
Nelsonville, OH
Poquoson, VA

DISH - A concave object used for transmitting or receiving electromagnetic signals.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of DISH is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.04"
1-dimensional			
2-dimensional			

Special Conditions:

If DISH is ≥ 0.04" along the longest axis, and DISH is not a fixed reflector DISH,
Then DISH is represented as a 0-dimensional basic feature object.

If DISH is ≥ 0.04" along the longest axis, and DISH is a fixed reflector DISH,
Then DISH is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If DISH is ≥ 0.02" along the longest axis and is not for private use for receiving satellite television waves, Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Graphic

It will be necessary to determine the form of the telescopes symbolized by the located object symbol and labeled "Telescope", before deciding which feature to capture.

Located object symbols having the label "Radio Telescope" are captured as DISH.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

	Symbol#: DISH_P001
	Dimension: 0

⊙   Dish

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   DISH_A001
Dimension: 2

◯ Dish

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Area Perimeter Color: Black Lineweight: 0.003"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Green Bank, WV (Located object symbols labeled "Telescope" and "Antenna")

DISPOSAL SITE - An area where refuse is dumped.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Discarded Substance

Tailings   Discarded material from ore treatment processes, usually piled in random heaps or ridges.

Waste Rock   Piles of unprocessed rock or submarginal ore removed from a mine.

Operational Status   State or condition

Reclaimed/Reverted/Converted   Restored to approximately the original contours and replanted, reverted to nature, or converted to an alternate use.

Unspecified   The value is not known and is not required

Photorevision Category   Whether or not a feature was added or modified as part of a photorevision assignment

Not Photorevised   Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required

Photorevised   Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of DISPOSAL SITE is the extent of the area containing the refuse.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If DISPOSAL SITE is ≥ 0.2" along the shortest axis or ≥ 0.04 square inches, and has not been reclaimed, or has not reverted to nature,
Or
If DISPOSAL SITE has been reclaimed and contour information is not available,
Then capture.

Attribute Information

If DISPOSAL SITE is a slag pit, a slag dump, or dredge tailings from a placer mine,
Then Discarded Substance = Tailings.

Source Interpretation Guidelines

All

Do not capture spoil banks as DISPOSAL SITE. See EMBANKMENT.

Do not capture sludge pits or tailings ponds as DISPOSAL SITE. See RESERVOIR.

Graphic

Capture sites labeled "Mine Dump" as DISPOSAL SITE, with Discarded Substance = Waste Rock.

Capture sites labeled "Slag Dump" and "Slag Pit" as DISPOSAL SITE.

Do not capture unlabeled disturbed surface pattern as DISPOSAL SITE. See DISTURBED SURFACE.

Revision - General

Revision - Standard

Revision - Limited

Do not add new features. Modify existing features only if the changed areas are $\geq 0.5"$ along the shortest axis or if area has been reclaimed/reverted/converted.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: DISPOSAL_SITE_A001
Dimension: 2

Mine
Dump

Attribute	Value	Symbol Specs	Type Specs
Discarded Substance	Waste Rock	Area Fill Color: Brown	**Label:** Color: Black
Operational Status	Unspecified	Screen: 13%, 120-line at 105°	Style: UL C/lc Size: 7 Spacing: 0

Symbol#: DISPOSAL_SITE_A002
Dimension: 2

Tailings

Attribute	Value	Symbol Specs	Type Specs
Discarded Substance	Tailings	Area Fill Color: Brown	**Label:** Color: Black
Operational Status	Unspecified	Screen: 13%, 120-line at 105°	Style: UL C/lc Size: 7 Spacing: 0

Symbol#: DISPOSAL_SITE_A003
Dimension: 2

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Operational Status	Reclaimed/Reverted/ Converted	Area Fill Color: Brown Screen: 8%, 120-line at 105°	N/A

NOTE: For reclaimed strip mines, apply the following note in the margin: "Light brown tint indicates former strip mines."

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Glassport, PA (Slag Dump - (photorevised), Slag Pits - shown with depression contours)
Humboldt, AZ (Tailings)
Perth Amboy, NJ (Sludge Pit, Sludge)
Southeast Great Falls, MT (Mine Dump symbolized with disturbed area pattern)

DISTURBED SURFACE - An area which is broken into a chaotic pattern of elevations and depressions due to human intervention.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of DISTURBED SURFACE is the extent of the area containing an unusual pattern of elevations and depressions.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If DISTURBED SURFACE cannot be identified as a DISPOSAL SITE or MINE,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If disturbed area is a mine dump or tailings,
Then do not capture as DISTURBED SURFACE. See DISPOSAL SITE.

If disturbed area is a Quarry, Open Pit, Pit, or Strip Mine,
Then do not capture as DISTURBED SURFACE. See MINE.

Graphic

If a disturbed area is unlabeled,
Then capture as DISTURBED AREA.

Revision - General

Revision - Standard

Revision - Limited

Do not add new features. When DISTURBED SURFACE is encountered during limited update, the
feature should preferably be reclassified as the feature it truly represents (i.e., DISPOSAL SITE or
MINE). If the true feature which the DISTURBED SURFACE represents cannot be determined, and if
contours exist in the disturbed area, then delete the DISTURBED SURFACE. If contours do not exist,
then retain the DISTURBED SURFACE.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

            Symbol#:   DISTURBED_SURFACE_A001
            Dimension: 2

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	N/A	N/A

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

DRIVE-IN THEATER SCREEN - The large flat-white or silver surface (and supporting structure) upon which a picture is projected for viewing.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of DRIVE-IN THEATER SCREEN is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

    Capture Conditions

        If DRIVE-IN THEATER SCREEN is within OUTDOOR THEATER that meets capture condtions,
        Then capture.

    Attribute Information

        N/A

    Source Interpretation Guidelines

        All

        Graphic

        Revision - General

        Revision - Standard

        Revision - Limited

            Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   DRIVE_IN_THEATER_SCREEN_L001
Dimension: 1

___

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Line Color: Black Lineweight: 0.008"	N/A

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Annandale, VA
    Provo, UT
    San Fransisco South, CA

DRYDOCK - An artificial basin fitted with a gate or caisson into which a vessel may be floated and from which water may be pumped out to expose the bottom of the vessel.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of DRYDOCK is defined by the walls and gate(s) that enclose the artificial basin.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If DRYDOCK is ≥ 0.025" along the shortest axis and is not floating,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

If DRYDOCK meets capture conditions,
Then capture DRYDOCK; GATE; and LAKE/POND, SEA/OCEAN, or STREAM/RIVER.

The line of contact between a body of water and the land is captured as SHORELINE or
NONEARTHEN SHORE. Other structures such as DAM/WEIR, PIER/BREAKWATER/JETTY, or
WHARF may coincide with the SHORELINE or NONEARTHEN SHORE, in which case both
features are captured.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization
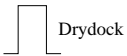
Symbol#:   DRYDOCK_A001
Dimension: 2

Drydock

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Area Perimeter Color: Black Lineweight: 0.007"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

Apre Harbor, GU (Two floating DRYDOCKS)
Jersey City, NJ-NY

EMBANKMENT - A raised linear mound of earth, gravel, or similar material.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Embankment Type	Function or purpose
Defensive Earthworks	A defense fortification, also referred to as breastwork or redoubt
Levee	An embankment built to prevent flooding or to control or confine the flow of liquids
Spoil Bank	An embankment of waste material dredged from a channel and dumped along it
Unspecified	The value is not known and is not required
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of EMBANKMENT is the extent of the raised mound at the base.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If EMBANKMENT is < 0.04" along the shortest axis and ≥ 0.5" along the longest axis, and the contour interval is ≥ 10 ft and height is ≥ 5 ft,
Or
If EMBANKMENT is < 0.04" along the shortest axis and ≥ 0.5" along the longest axis, and the contour interval is 5 ft and height is ≥ 3 ft,
Or
If EMBANKMENT is < 0.04" along the shortest axis and provides support to raise a CANAL/DITCH or STREAM/RIVER above normal ground level to maintain gravity flow,
Or
If EMBANKMENT is < 0.04" along the shortest axis and is an outline or separator of an earthen RESERVOIR, or is an outline of a controlled INUNDATION AREA, or is a fire protection dike around a TANK,
Or
If EMBANKMENT is a check dam or other similar feature built to control erosion and is < 0.04" along the shortest axis, ≥ 0.1" along the longest axis, and the contour interval is ≥ 10 ft and height is ≥ 5 ft,
Or
If EMBANKMENT is a check dam or other similar feature built to control erosion and is < 0.04" along the shortest axis, ≥ 0.1" along the longest axis, and the contour interval is 5 ft and height is ≥ 3 ft,
Or
If EMBANKMENT has Embankment Type = Defensive Earthworks, and is of historical significance, and is located in a protected area,
Then capture.

Attribute Information

If Embankment Type ≠ Defensive Earthworks,
Then Name = Unspecified.

Source Interpretation Guidelines

All

Tapered ends of EMBANKMENT will be considered as the same dimensions as the main portion of the EMBANKMENT.

Do not capture embankments ≥ 0.04" along the shortest axis as EMBANKMENT. See CONTOUR.

If the average width of an EMBANKMENT is < 0.04" it will be captured as EMBANKMENT even though portions may exceed 0.04". The predominant width will dictate how the feature is represented. Do not combine EMBANKMENT and CONTOUR representation on the same levee.

If the height of the EMBANKMENT varies,
Then map it completely if average height meets capture conditions.

If any gap between the in-line piles of a Spoil Bank is < 0.05",
Then capture as a continuous feature.

Graphic

If feature in a protected area is labeled Battle Trench or Breastworks, capture as Embankment Type = Defensive Earthworks.

Hachures have been used to symbolize the extent of pits and mines and do not represent the feature EMBANKMENT.

Embankments constructed to raise CANAL/DITCHES above normal ground in order to maintain gravity flow have been symbolized several ways on the graphics: a levee on each side, half a hachure on each side (sometimes called a split levee), and/or labeled Elevated.

When a levee is shown on each side, it may not be possible to determine if they are to raise the feature or are actual mounds beside the feature. They should be captured as individual levees unless source imagery is available to determine their construction.

If the split levee symbol or elevated label is used or it is possible to determine that the 2 levees represent a raised CANAL/DITCH, a single EMBANKMENT will be captured coincident with the CANAL/DITCH.

Embankments constructed to raise CANAL/DITCH above normal ground in order to maintain gravity

flow will be captured as an EMBANKMENT along the side of the CANAL/DITCH.

Revision - General

Revision - Standard

Revision - Limited

Revise only if clearly visible on the photographs. Collect as a line that follows the top of the embankment. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

       All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: EMBANKMENT_L001
Dimension: 1

EMT

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Levee or Unspecified	<u>Line</u> Color: Brown Lineweight: 0.015"	**Embankment Type:** Color: Black Style: UI CAPS Size: 5-7 Spacing: 0

Symbol#: EMBANKMENT_L002
Dimension: 1

— — — — — — —

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Spoil Bank	<u>Dashed Line</u> Color: Brown Lineweight: 0.012" Dash Length: 0.07" Dash Spacing: 0.02"	N/A

Symbol#:   EMBANKMENT_L003
Dimension: 1

| NAM |
| EMT |

— — — — — — —
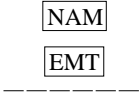
Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Defensive Earthworks	Dashed Line Color: Black Lineweight: 0.005" Dash Length: 0.1" Dash Spacing: 0.02"	**Embankment Type and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		

Symbol#:   EMBANKMENT_L101
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Levee	Lines Color: Brown Lineweight: 0.006" Positioning: place one line on each side of ROAD symbol, .005" from ROAD symbol	N/A

Symbol#:   EMBANKMENT_L102
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Levee	Lines Color: Brown Lineweight: 0.006" Positioning: place one line on each side of RAILWAY symbol, limit of outer edge of lines is the end of the ticks	N/A

Symbol#: EMBANKMENT_L103
Dimension: 1

Road on
Levee

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Levee	N/A	**Label:** Color: Black Style: UL C/lc Size: 5-7 Spacing: 0

Symbol#: EMBANKMENT_L104
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
Embankment Type	Levee	Lines Color: Brown Lineweight: 0.006" Positioning: place one line on each side of CANAL/DITCH symbol, 0.005" from CANAL/DITCH symbol	N/A

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If EMBANKMENT separates the RESERVOIRS in a group of two or more adjacent RESERVOIRS with the same Attribute Values and the shortest axis of all RESERVOIRS in the group is ≥ 0.25" and the RESERVOIR perimeter lines are ≥ 0.005" and < 0.025" apart,
Then adjacent perimeter lines will be equally displaced and plotted 0.025" apart, and the RESERVOIR symbols will be adjusted accordingly.

If EMBANKMENT separates the RESERVOIRS in a group of two or more adjacent RESERVOIRS with the same Attribute Values and any RESERVOIR in the group has any axis < 0.25",
Then suppress_section.

If EMBANKMENT separates the RESERVOIRS in a group of two or more adjacent RESERVOIRS with the same Attribute Values and the RESERVOIR perimeter lines are < 0.005" apart,
Then suppress_section.

If EMBANKMENT, with Embankment Type = Levee coincides ROAD,
Then resymbolize_section using L101.

If EMBANKMENT, with Embankment Type = Levee coincides RAILWAY,
Then resymbolize_section using L102.

If EMBANKMENT, with Embankment Type = Levee coincides ROAD and there is < 0.011" clearance
between ROAD symbol and an adjacent CANAL/DITCH, LAKE/POND, RAILWAY, or ROAD,
Then resymbolize_section using L103.

If EMBANKMENT, with Embankment Type = Levee, coincides CANAL/DITCH,
Then resymbolize_section using L104.

If EMBANKMENT is along a CANAL/DITCH, RAILWAY, or ROAD and symbols coalesce,
Then global displacement hierarchy rules (TBD) will apply.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will
continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Rhodesdale. MD (Levee/sewage disposal ponds)
Palo Alto, CA (Levee/salt evaporator; ROAD on levee; Lagunita (lake or reservoir) with levee symbol as
DAM/WEIR)
Lawtey, FL (Spoil banks and levees/tailings ponds)
Dos Pueblos Canyon, CA (Diked TANKS)
Lucre, MS (Aerial spoil banks and levee)
Alice North, TX (Levees broken for RAILWAY and ROAD crossing)
LaPorte, TX (Levee/industrial waste pond)
Virginia Point, TX (Levee/acid ponds, spoil bank)
Hialeah, FL (Levee/sludge pit (abandoned))
Littleton, CO (Levee/1 & 2 sides of ditch)
Devore, CA (Diversion dike & levee/inundation area, levee/ditch)
San Fernando, CA (Levee/spreading ground)
Hayti Heights, MO (Elevated ditch)
Orondo, WA (Erosion dikes)
Poquoson West, VA (1975 edition with Battle Trenches)
Poquoson West, VA (1983 edition with Battle Trenches and Defensive Earthworks 9 & 10)
Yorktown, VA (1957 edition with levee symbol for Defensive Earthworks)
Yorktown, VA (1984 edition with Battle Trenches for Defensive Earthworks)
Petersburg, VA (1952 edition with levees for Defensive Earthworks)
Petersburg, VA (1969 edition with Trenches for Defensive Earthworks)
Westley, CA (Raised ditch with full levee symbol on both sides)

EXHIBITION GROUND - A public area where outdoor fairs, circuses, and other events are held, which also contains permanent structures for the display of livestock, machinery, agricultural produce, etc.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of EXHIBITION GROUND is the extent of the area used for exhibitions and includes all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

<u>Capture Conditions</u>

   Capture all.

<u>Attribute Information</u>

<u>Source Interpretation Guidelines</u>

   All

   Graphic

      If label = Rodeo Ground(s) or Fair Ground(s),
      Then capture EXHIBITION GROUND.

   Revision - General

   Revision - Standard

   Revision - Limited

      Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

                                                          Symbol#: EXHIBITION_GROUND_A001
                                                          Dimension: 2

    | NAM |

    Fairground

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Bristol, MD
    Cockeysville, MD
    Columbus, NJ
    Eugene East, OR
    Eureka, CA
    Glassport, PA
    Indianapolis, IN
    Kalamazoo, MI
    Louisville, KY
    Petersburg, VA
    Rapid City East, SD
    Shreveport, LA

FENCE LINE - An identifiable fence or field line visible on an aerial photograph.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of FENCE LINE is the extent of the fence or field line.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If FENCE LINE is ≥ 0.5" in length and is not within BUILT-UP AREA, and is located along a 1/4 or 1/16 section line, and is ≥ 0.5" from another parallel linear feature that is not a fence line,
Or
If FENCE LINE is ≥ 0.5" in length, and is not within BUILT-UP AREA, and is not located along a 1/4 or 1/16 section line, and is ≥ 0.5" from another parallel linear featureor an already captured fence line,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Graphic

Capture all.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   FENCE_LINE_L001
Dimension: 1

— — — — — —

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Dashed Line Color: Red Lineweight: 0.003" Dash Length: 0.1" Dash Spacing: 0.02"	N/A

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Elderton, PA

FILTRATION PLANT - A group of structures functioning as a unit used for the purification and distribution of a water supply.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of FILTRATION PLANT is the extent of the area encompassing all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Capture any site labeled "Waterworks" as FILTRATION PLANT.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: FILTRATION_PLANT_A001
Dimension: 2

NAM
Filtration
Plant

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

  Beltsville, MD
  Lakewood, NJ
  Long Branch, NJ (Monmouth Water Works)
  Moorestown, NJ
  Petersburg, VA
  Sherando, VA
  Trenton West, NJ
  Washington West, DC
  Yorktown, VA

HISTORICAL MONUMENT - A structure, not a building, that commemorates people or past events.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of HISTORICAL MONUMENT is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If HISTORICAL MONUMENT is located outside BUILT-UP AREA and outside RESERVATION, with Reservation Type = Park and is landmark,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Boundary monuments that no longer reference a current jurisdictional boundary and which have historical significance are captured as HISTORICAL MONUMENT.

Do not capture buildings such as those named "Jefferson Memorial" or "Lincoln Memorial" as HISTORICAL MONUMENT. See BUILDING.

Do not capture Carillons as HISTORICAL MONUMENT. See TOWER.

Do not capture roadside markers as HISTORICAL MONUMENT.

Graphic

Capture located object symbols labeled "Historical Monument", "Historic Marker", "Historical Marker", "Monument" ,"Mon.", or "Shrine" as HISTORICAL MONUMENT. Located object symbols may also be named, for example "Treaty Oak", "Meade Pyramid", or "Carranza Memorial", and should be collected as HISTORICAL MONUMENT.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   HISTORICAL_MONUMENT_P001
Dimension: 0

NAM

⊙   Monument

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Apra Harbor, GU (Historical Monument and Spanish Shrine)
Arcata North, CA (CAA Inner Marker)
Fredericksburg, VA (Meade Pyramid, Mary Washington Mon.)
Indian Mills, NJ (Carranza Memorial)
Korbel, CA (Indian Arrow Tree)
La Junta, CO
Petersburg, VA
Provo, UT
Trenton West, NJ
Walker Pass, CA
Yorktown, VA (Yorktown Monument, Washington Headquarters)

HOLDING PEN - An enclosed area in which livestock are temporarily kept.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Holding Pen Type	Function or purpose
Corral	For confining or capturing livestock
Feedlot	Where livestock are fattened for market
Stockyard	Where livestock are kept temporarily for slaughter, market, or shipping
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of HOLDING PEN is the outer structure which surrounds the area.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.06"
1-dimensional			
2-dimensional			≥ 0.06"

Special Conditions:

DATA EXTRACTION

Capture Conditions

If HOLDING PEN is ≥ 1.0" from another cultural feature,
Or
If HOLDING PEN is ≥ 0.25" along the shortest axis,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#:   HOLDING_PEN_P001
Dimension: 0

□   HPT

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Holding Pen Type	Corral, Feedlot, or Stockyard	<u>Symbol Orientation</u> Orientation: parallel to south projection line Origin: center of symbol <u>Square</u> Color: Black Lineweight: 0.003" Dimension 1: 0.04" Dimension 2: 0.04"	**Holding Pen Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   HOLDING_PEN_A001
Dimension: 2

HPT

Attribute	Value	Symbol Specs	Type Specs
Holding Pen Type	Corral, Feedlot, or Stockyard	<u>Dashed Area Perimeter</u> Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Holding Pen Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Commerce City, CO
Granite City, IL-MO
Hereford, TX
Mackay, ID
Tampico, WA
Tempe, FL
Tieton, WA

INSTITUTIONAL SITE - A group of buildings or associated structures, functioning as a unit, used predominantly for educational, correctional, governmental, medical, or religious purposes.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Institutional Type	Function or purpose
Civil Government	For the exercise of authority over and the performance of functions for a non-military or non religious political unit
Correctional	For punishment or rehabilitation
Education/Research	For instruction or study
Historical	Feature is historically significant
Medical	For the study or practice of medicine
Military	Area for carrying out military activities
Religious	For the administration, practice, or teaching of religion
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of INSTITUTIONAL SITE is the extent of the area used by the institution, including all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If INSTITUTIONAL SITE is named,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If INSTITUTIONAL SITE can be considered as more than one Institutional type,
Then capture more than one value for Institutional Type, as appropriate. (For example, a seminary could be Education/Research and Religious.)

Senior citizen homes or nursing homes that are captured as INSTITUTIONAL SITE will have Institutional Type = Medical.

Do not capture INSTITUTIONAL SITE within another captured INSTITUTIONAL SITE.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

                                                   Symbol#:   INSTITUTIONAL_SITE_A001
                                                   Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Name:** Color: Black Style: UL CAPS Size: 7 Spacing: 0

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Albuquerque West, NM
    Fort Worth, TX
    Mandan, ND
    Monroe, OH
    Thomasville, GA
    Washington West, DC-MD-VA

KILN - Any of various ovens for hardening, burning, or drying substances.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category | Whether or not a feature was added or modified as part of a photorevision assignment

    Not Photorevised | Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required

    Photorevised | Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

Product | Principal commodity involved

    Brick

    Charcoal

    Coke

    Unspecified | The value is not known and is not required

DELINEATION

The limit of KILN is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If KILN is < 0.02" in diameter or along the shortest axis,
Then KILN is represented as a 0-dimensional basic feature object.

If KILN is ≥ 0.02" in diameter or along the shortest axis,
Then KILN is represented as a 2-dimensional basic feature object.

If Product = Coke,
Then KILN is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   KILN_P001
Dimension: 0

PRO

. Kiln

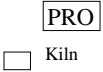| Attribute	Value	Symbol Specs	Type Specs
Product	Brick, Charcoal, or Unspecified	Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol Square Color: Black Dimension 1: 0.02" Dimension 2: 0.02"	**Label and Product:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   KILN_A001
Dimension: 2

PRO

☐ Kiln

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Product	Brick, Charcoal, or Unspecified	Area Perimeter Color: Black Lineweight: 0.004"	**Label and Product:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   KILN_A002
Dimension: 2

Coke
Ovens

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Product	Coke	Area Perimeter Color: Black Lineweight: 0.003" Dashed Fill Color: Black Dash Length: 0.03" Dash Spacing: 0.02"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Glassport, PA (KILNS and coke ovens)
Huntsville, AR (KILNS)
Peace Valley, MO (KILNS)
Roaring Spring, PA (KILNS)

LAUNCH FACILITY - An area where rockets or missiles may be housed and from which they are launched, usually equipped with associated buildings and facilities.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of LAUNCH FACILITY is the extent of the area encompassing all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If LAUNCH FACILITY is named,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: LAUNCH_FACILITY_A001
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            If LAUNCH FACILITY coincides RESERVATION, and RESERVATION Name = LAUNCH FACILITY Name,
Then do not show LAUNCH FACILITY Name.

        Placement

            TBD

EXAMPLES

    Cape Canaveral, FL (2-D LAUNCH PAD and LAUNCH FACILITY)
    False Cape, FL
    Wilson, FL

LAUNCH PAD - A structure from which a rocket or missile is launched.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of LAUNCH PAD is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.1"
1-dimensional			
2-dimensional			≥ 0.1"

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

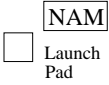   Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   LAUNCH_PAD_P001
Dimension: 0

NAM
⊙ Launch
Pad

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#: LAUNCH_PAD_A001
Dimension: 2

NAM

Launch
Pad

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.004"	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Cape Canaveral, FL (2-D LAUNCH PAD and LAUNCH FACILITY)
False Cape, FL
Wilson, FL

LAUNCHING RAMP - A partially submerged hard surface on a shoreline for launching or retrieving vessels or aircraft.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Ramp Type	Function or purpose
Boat Ramp	
Seaplane Ramp	

DELINEATION

If LAUNCHING RAMP is at the end of ROAD, the limit is the place where the center of the ROAD intersects the SHORELINE or NONEARTHEN SHORE.

If LAUNCHING RAMP is not at the end of ROAD, the limit is the edge of the hard surface.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If LAUNCHING RAMP is at the end of ROAD,
Then LAUNCHING RAMP is represented as a 0-dimensional basic feature object.

If LAUNCHING RAMP is not at the end of ROAD, and LAUNCHING RAMP is < 0.02" along the shoreline,
Then LAUNCHING RAMP is represented as a 0-dimensional basic feature object.

If LAUNCHING RAMP is not at the end of ROAD, and LAUNCHING RAMP is ≥ 0.02" along the shoreline,
Then LAUNCHING RAMP is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If LAUNCHING RAMP is a seaplane ramp,
Or
If LAUNCHING RAMP is a public boat ramp,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: LAUNCHING_RAMP_P001
Dimension: 0

NAM
• RAT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dot Color: Black Screen: 50%, 150-line biangle Diameter: 0.03"	**Name and Ramp Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Ramp Type	Boat Ramp or Seaplane Ramp		

Symbol#: LAUNCHING_RAMP_A001
Dimension: 2

NAM

RAT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.004"	**Name and Ramp Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Ramp Type	Boat Ramp or Seaplane Ramp		

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

IF LAUNCHING RAMP coincides SHORELINE,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Bodega, Head, CA (2-D boat ramp)
Bowman Dam, OR (Boat ramp (1988))
Cambridge, MD (Boat ramps (1988))
Central Park, NY-NJ (Seaplane ramps in Seaplane Basin (1956))
Huttig, AR (Boat ramp)
Philadelphia, PA-NJ (Seaplane ramp)
Sawyer, KY (Holly Bay Boat Ramp (2-D))

LOCALE - A named place not otherwise categorized.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of LOCALE is the extent of the area known by that name.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.02"
1-dimensional			
2-dimensional			≥ 0.02"

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Do not capture LOCALE if an entity meets the definition for a feature other than LOCALE.   See relevant feature template.

Do not capture an area having permanent human population, except ranches, as LOCALE. See POPULATED PLACE.

Graphic

Capture all.

If a site is symbolized with a located object symbol,
Then capture as a 0-dimensional basic feature object.

Areas labelled as "Site" are collected as LOCALE.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: LOCALE_P001
Dimension: 0

NAM

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: SM C/lc Size: 8 Spacing: 0

Symbol#: LOCALE_A001
Dimension: 2

NAM

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: SM C/lc Size: 8 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Anderson Creek, WA (Site of Lacy Oil Seep)
Gloyd, WA ('Gloyd' label next to RAILWAY siding and ROAD inspection)
Fairfield, WA ('West Fairfield' label next to RAILWAY siding and grain elevator, 'Darknell' label next to ROAD, siding and storage bins)
Toro Peak, CA (Named dry springs)

MARINA - A harbor facility for recreational craft where supplies, repairs, and various services are available.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of MARINA is the extent of the area that contains the associated boating facilities.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If MARINA is named and is publicly owned, operated, and maintained,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Named yacht basins, yacht clubs, and yacht centers are captured as MARINA.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

<u>Inclusion Conditions</u>

All required

<u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

<u>Symbolization</u>

Symbol#: MARINA_A001
Dimension: 2

NAM

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

<u>Conflict Detection and Resolution</u>

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

    Fort Pierce, FL
    Hope, ID
    Key Biscayne, FL
    Miami, FL
    Point Pleasant, NJ
    Port Everglades, FL

MINE - An excavation in the earth for the purpose of extracting earth materials.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Mine Type	Function or purpose
Open Pit	Excavation where large deposits of mineral ores are removed
Pit	Excavation where unconsolidated materials are removed
Product	Principal commodity involved
Clay	A sediment of soft plastic consistency composed primarily of fine grained minerals.
Gravel	Unconsolidated, natural accumulation of rounded rock fragments, consisting predominantly of particles larger than sand but smaller than boulders, having a diameter in the range of 2mm to 256 mm (1/2 inch to 10 inches).
Sand	Unconsolidated rock particles that are larger than silt but smaller than gravel
Unspecified	The value is not known and is not required
Quarry	Excavation in solid rock where building stone, limestone, etc. are removed
Strip	Excavation where overburden is removed to extract materials close to the surface. The overburden is piled in random heaps or deposited in fairly regular ridges and furrows.
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Operational Status	State or condition
Reclaimed/Reverted/Converted	Restored to approximately the original contours and replanted, reverted to nature, or converted to an alternate use.
Unspecified	The value is not known and is not required

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of MINE is the edge of the excavation.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If MINE, with Mine Type = Quarry, Pit, or Open Pit, is < 0.5" along the shortest axis,
Then MINE is represented as a 0-dimensional basic feature object.

If MINE, with Mine Type = Quarry, Pit, or Open Pit, is ≥ 0.5" along the shortest axis,
Then MINE is represented as a 2-dimensional basic feature object.

If MINE has Mine Type = Strip,
Then MINE is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If MINE is a surface mine that has not been reclaimed, reverted to nature, or converted to an alternate use,
Or
If MINE is a reclaimed strip mine for which contour information is not available,
Then capture.

Attribute Information

Operational Status = Reclaimed only in limited update. See Source Interpretation Guidelines, Revision.

Source Interpretation Guidelines

All

Mined areas that have "reverted to nature" are those which have been left to revegetate through natural means; they lack roads for removal of material and show evidence of mature vegetation.

Mined areas that have been "reclaimed" are those in which the landscape has been restored to its original grade.

Mined areas that have been "converted to an alternate use" are those which are being used for activities other than mining.

Do not capture entrances to underground mines as MINE. See MINE ENTRANCE.

Do not capture placer mines as MINE. See DISPOSAL SITE.

Do not capture mines that have filled with water as MINE. See LAKE/POND (Hydrography theme).

Graphic

Do not capture features portrayed with an adit or shaft symbol and labeled as MINE. See MINE ENTRANCE.

The extent of a MINE may be indicated by hachures or depression contours.

Capture all areal mines symbolized by imagery as MINE.

Revision - General

For treatment of contours in mines and reclaimed areas, see CONTOUR (Hypsography theme).

Revision - Standard

Revision - Limited

If a strip mine has been reclaimed, reverted to nature, or converted to an alternate use,
Then capture as MINE, with Operational Status = Reclaimed/Reverted/Converted.

Product = Unspecified for newly collected MINES with Mine Type = Pit. Retain Product (for
example, Clay, Gravel, Sand, or Unspecified) on existing MINES.

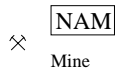DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

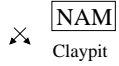   Generalization

PRODUCT GENERATION at 1:24,000 scale

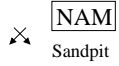   Symbolization

---

Symbol#:   MINE_P001
Dimension: 0

NAM
Mine

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Open Pit	Arcs Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.003" Length: 0.05" Positioning: centered on NW and NE ends of cross with concaves facing intersection of cross Radius: 0.05"	Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
		Cross Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.1" Line 2 Length: 0.1" Intersect Angle: 90°	
		Symbol Orientation Orientation: one line placed at 45-degrees to south projection line Origin: center of cross	

Symbol#: MINE_P002
Dimension: 0

NAM
Claypit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Cross Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.1" Line 2 Length: 0.1" Intersect Angle: 90˚	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Clay		

Symbol Orientation
Orientation: one line
placed at 45-degrees
to south projection
line
Origin: center of cross

Equilateral Triangle
Color: Black
Positioning: one edge
centered and at 90° to
SW and SE ends of lines
Dimension 1: 0.03"
Dimension 2: 0.03"
Dimension 3: 0.03"

Symbol#:   MINE_P003
Dimension: 0

NAM
×
Sandpit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Cross Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.003" Positioning: lines bisect each other	Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Product	Sand	Line 1 Length: 0.1" Line 2 Length: 0.1" Intersect Angle: 90˚	
		Symbol Orientation Orientation: one line placed at 45-degrees to south projection line Origin: center of cross	
		Equilateral Triangle Color: Black Positioning: one edge centered and at 90° to SW and SE ends of lines Dimension 1: 0.03" Dimension 2: 0.03" Dimension 3: 0.03"	

Symbol#:   MINE_P004
Dimension: 0

NAM
Gravel Pit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	<u>Cross</u> Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.1" Line 2 Length: 0.1" Intersect Angle: 90˚	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Gravel		

<u>Symbol Orientation</u>
Orientation: one line
placed at 45-degrees
to south projection
line
Origin: center of cross

<u>Equilateral Triangle</u>
Color: Black
Positioning: one edge
centered and at 90° to
SW and SE ends of lines
Dimension 1: 0.03"
Dimension 2: 0.03"
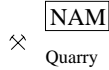Dimension 3: 0.03"

Symbol#:   MINE_P005
Dimension: 0

NAM

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Cross	**Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or	Lineweight: 0.003"	Style: UL CAPS or C/lc
	Unspecified	Positioning: lines	Size: 6-10
		bisect each other	Spacing: 0-5
Product	Unspecified	Line 1 Length: 0.1"	
		Line 2 Length: 0.1"	
		Intersect Angle: 90˚	
		Symbol Orientation	
		Orientation: one line	
		placed at 45-degrees	
		to south projection	
		line	
		Origin: center of cross	
		Equilateral Triangle	
		Color: Black	
		Positioning: one edge	
		centered and at 90° to	
		SW and SE ends of two	
		lines	
		Dimension 1: 0.03"	
		Dimension 2: 0.03"	
		Dimension 3: 0.03"	

Symbol#:   MINE_P006
Dimension: 0

NAM

Quarry

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Quarry	<u>Arcs</u> Color: Black Lineweight: 0.003" Length: 0.05" Positioning: centered on NW and NE ends of cross with concaves facing intersection of cross Radius: 0.05"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Name	(Alphanumeric) or Unspecified		**Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
		<u>Cross</u> Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.1" Line 2 Length: 0.1" Intersect Angle: 90˚	
		<u>Symbol Orientation</u> Orientation: one line placed at 45-degrees to south projection line Origin: center of cross	

Symbol#:   MINE_A001
Dimension: 2

NAM

Mine

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Open Pit	<u>Area Fill</u> Color: Brown Screen: 13%, 120-line at 105°	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		

Symbol#:   MINE_A002
Dimension: 2

NAM

Claypit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Clay		

Symbol#:   MINE_A003
Dimension: 2

NAM

Sandpit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Sand		

Symbol#:   MINE_A004
Dimension: 2

NAM

Gravel Pit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Gravel		

Symbol#:   MINE_A005
Dimension: 2

NAM
Pit

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Pit	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Product	Unspecified		

Symbol#:   MINE_A006
Dimension: 2

NAM
Quarry
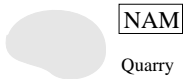
Attribute	Value	Symbol Specs	Type Specs
Mine Type	Quarry	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		

Symbol#:   MINE_A007
Dimension: 2

NAM
Strip
Mine

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Strip	Area Fill Color: Brown Screen: 13%, 120-line at 105-degrees	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Name	(Alphanumeric) or Unspecified		
Operational Status	Unspecified		

Symbol#:   MINE_A008
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Mine Type	Strip	Area Fill Color: Brown	**Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Screen: 8%, 120-line at 105-degrees	Style: UL CAPS or C/lc Size: 6-10 Spacing: 0-5
Operational Status	Reclaimed/Reverted/ Converted		

NOTE: For reclaimed strip mines, apply the following note in the margin: "Light brown tint indicates former strip mines".

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Alice North, TX (0-D quarry)
Bessemer, AL (Chert pit)
Brigham City, UT (2-D gravel pits)
Cordova NW, AL (0-D gravel pits, 2-D gravel pit)
Falcon NW, CO (0-D sandpit)
Glassport, PA (2-D strip mines)
Hopkinton, NH (0-D sandpit)
La Junta, CO (2-D La Junta Gravel Pit)
McKeesport, PA (2-D quarry)
Prunedale, CA (Borrow pit)
Rileyville, VA (0-D sand and gravel pit)

MINE ENTRANCE - Passage that affords entry to an underground mine.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Entrance Type	Function or purpose
Air Ventilation	To admit fresh air
General Case	Common use
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Passage Category	Form or nature
Horizontal	In a plane parallel to the horizon.
Vertical	In a plane perpendicular to the horizon.
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of MINE ENTRANCE is the edge of the passage.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If MINE ENTRANCE is within an area of closely spaced mine entrances and is necessary to accurately represent the pattern of MINE ENTRANCES (see Source Interpretation Guidelines to determine how to accurately represent the pattern),
Or
If MINE ENTRANCE is landmark,
Then capture.

Attribute Information

If Entrance Type = Air Ventilation,
Then Passage Category = Vertical.

Source Interpretation Guidelines

All

If MINE ENTRANCE is in an area of closely spaced mine entrances,
Then first capture named MINE ENTRANCES, then those that are on the perimeter of the area, then those that are most prominent, then finally capture a representative pattern of MINE ENTRANCES internal to the area. MINE ENTRANCES must be captured in their correct position. The symbols for a horizontal MINE ENTRANCE may overlap to reflect the density of MINE ENTRANCES. The symbols for a vertical MINE ENTRANCE must not overlap.

Do not capture a mine shaft that has been filled in as MINE ENTRANCE. If the filled mine shaft is named,

Then capture as LOCALE.

Graphic

A mine shaft symbol is captured as MINE ENTRANCE, with Passage Category = Vertical.

An adit symbol that is unlabeled, unnamed, or labeled "Mine" is captured as MINE ENTRANCE, with Entrance Type = General Case and Passage Category = Horizontal.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: MINE_ENTRANCE_P001
Dimension: 0

NAM
Mine

Attribute	Value	Symbol Specs	Type Specs
Entrance Type	General Case	Symbol Orientation	**Label and Name:**
		Orientation:	Color: Black
Name	(Alphanumeric) or	perpendicular to	Style: UL C/lc
	Unspecified	contours	Size: 7
		Origin: junction of	Spacing: 0
Passage Category	Horizontal	the arms	
		Arms	
		Color: Black	
		Lineweight: 0.003"	
		Length: 0.033"	
		Angle Of Intersection:	
		90°	
		Stem	
		Color: Black	
		Lineweight: 0.003"	
		Length: 0.067"	
		Positioning: end of	
		stem intersects apex	
		of arms at 135-degrees	

Symbol#:   MINE_ENTRANCE_P002
Dimension: 0

NAM

Attribute	Value	Symbol Specs	Type Specs
Entrance Type	General Case	Fill	**Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Screen: 100%, in NW half of square	Style: UL C/lc
			Size: 7
			Spacing: 0
Passage Category	Vertical	Symbol Orientation	
		Orientation: parallel to south projection line	
		Origin: center of symbol	
		Square	
		Color: Black	
		Lineweight: 0.003"	
		Dimension 1: 0.04"	
		Dimension 2: 0.04"	

Symbol#:   MINE_ENTRANCE_P003
Dimension: 0

NAM

⊙ Air
Shaft

Attribute	Value	Symbol Specs	Type Specs
Entrance Type	Air Ventilation	Circle	**Label and Name:**
		Color: Black	Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.003"	Style: UL C/lc
		Diameter: 0.04"	Size: 7
			Spacing: 0
		Dot	
		Color: Black	
		Diameter: 0.006"	
		Positioning: centered in circle	
		Symbol Orientation	
		Origin: center of symbol	

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Where a MINE ENTRANCE, with Passage Category = Vertical is coincident with or very close to surface structures (ex. BUILDING), the position of the shaft should be held, and the structures may be omitted or displaced.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Blue Nose Mountain, CA
Rocklin, CA
Soedad Mountain, CA

MOBILE HOME PARK - An area maintained for the parking of inhabited mobile homes.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of MOBILE HOME PARK is the extent of the area used for parking mobile homes and may be defined by the outermost roads or the limits of the outermost mobile homes.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If at least one ROAD is captured within MOBILE HOME PARK, and MOBILE HOME PARK is outside
BUILT-UP AREA,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Do not capture areas used for parking recreational vehicles as MOBILE HOME PARK. See
CAMPGROUND.

Do not capture individual mobile homes within MOBILE HOME PARK. See BUILDING for the
capture of permanent buildings within MOBILE HOME PARK.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   MOBILE_HOME_PARK_A001
Dimension: 2

NAM
Mobile Home
Park

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
			Name: Color: Black Style: SM C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Anaheim, CA
Delray Beach, FL
Grayslake, IL
Miami, FL
McKeesport, PA
Morrison, CO

OFFSHORE PLATFORM - A raised structure located in a sea, equipped for the extraction, loading or unloading of petroleum products.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of OFFSHORE PLATFORM is the extent of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.02"
1-dimensional			
2-dimensional			≥ 0.02"

Special Conditions:

DATA EXTRACTION

Capture Conditions

If OFFSHORE PLATFORM is shown on NOS charts,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

"Drill Pads" shown on Alaska quads are on land (gravel areas), not on platforms, and so do not meet
the definition for OFFSHORE PLATFORM. See WELL.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   OFFSHORE_PLATFORM_P001
Dimension: 0

▪ Platform

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Symbol Orientation Orientation: parallel to south projection line Origin: center of symbol Filled Square Color: Black Screen: 100% Dimension 1: 0.02" Dimension 2: 0.02"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   OFFSHORE_PLATFORM_A001
Dimension: 2

■ Platform

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Area Fill Color: Black Screen: 100%	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If OFFSHORE PLATFORM is 0-dimensional and coincides a horizontal control station,
Then suppress_symbol (retain label if appropriate).

If OFFSHORE PLATFORM symbol_coalesces a horizontal control station,
Then symbol_diplace.

If OFFSHORE PLATFORM is 2-dimensional and coincides a horizontal control station,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Belle Isle, LA
Crane Islands NW, TX
Cove Point, MD
Red Level, FL

OUTDOOR THEATER - An outdoor area consisting of a stage or other focal point, and an area where the audience can be seated to view the performance or event.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name   Proper name, specific term, or expression

    (Alphanumeric)   Length Value: 99

    Unspecified   The value is not known and is not required

Outdoor Theater Type   Function or purpose

    Amphitheater   A place where events or performances are presented on a central or frontal stage area, with audience seating generally arranged on a slope in an oval or circular pattern

    Aqua Theater   A place where events or performances are presented in or on the water

    Drive-in Theater   A place where motion pictures are shown while viewers remain in their vehicles

Photorevision Category   Whether or not a feature was added or modified as part of a photorevision assignment

    Not Photorevised   Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required

    Photorevised   Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of OUTDOOR THEATER is the perimeter of the area maintained for performances and viewing, including all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.04"
1-dimensional			
2-dimensional			> 0.04"

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Do not capture as OUTDOOR THEATER a theater symbolized only as a building. See BUILDING.

Revision - General

Revision - Standard

Revision - Limited

Do not revise if Outdoor Theater Type = Drive-in Theater. Delete existing OUTDOOR THEATERS if Outdoor Theater Type = Drive-in Theater.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

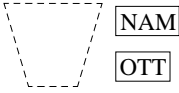PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: OUTDOOR_THEATER_P001
Dimension: 0

NAM

⊙

OTT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04"	**Name and Outdoor Theater Type:** Color: Black Style: UL C/lc
Outdoor Theater Type	Amphitheater or Aqua Theater		Size: 7 Spacing: 0
		Dot Color: Black Diameter: 0.006" Positioning: centered in circle	
		Symbol Orientation Origin: center of symbol	

Symbol#: OUTDOOR_THEATER_A001
Dimension: 2

NAM

OTT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Name and Outdoor Theater Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Outdoor Theater Type	Amphitheater or Drive-in Theater		

Symbol#: OUTDOOR_THEATER_A002
Dimension: 2

NAM

OTT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Name and Outdoor Theater Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Outdoor Theater Type	Aqua Theater		

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If perimeter of 2-dimensional OUTDOOR THEATER symbol_coalesces with BOUNDARY LINE, BUILDING, DRIVE-IN THEATER SCREEN, RAILWAY, or ROAD,
Then suppress_section and extend remaining dash symbol segments to meet the other feature.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If Outdoor Theater Type = Amphitheater, and Name = (Alphanumeric) and does not include "Amphitheater",
Then add label in parentheses after name.

Placement

TBD

EXAMPLES

Albuquerque West, NM (Drive-in theater)
Brooklyn, NY (BUILDING labeled "Amphitheater")
Canyon Village, WY (BUILDING labeled "Amphitheater")
Corpus Christie, TX (Drive-in theater)
Elfers, FL (Drive-in theater)
Hollywood, CA (2-D labeled "Greek Theater")
La Jolla, CA (Sea World Aquatic Park)
Morrison, CO (2-D labeled "Red Rocks Amphitheater")
Pasadena, CA
San Clemente, CA
Santa Barbara, CA (2-D labeled "County Bowl")
Seattle North, WA (Aqua Theater)

PARK - A place or area developed for public use or recreation.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Park Type	Function or purpose
Amusement	An area containing various rides and arcades for entertainment and thrill.
Botanical	An area for the exhibition and study of plants
General Case	Common use
Parade Ground	An area for marching and parading of troops
Picnic Area	An outdoor area with facilities for preparing and eating meals except for those along highways primarily for the use of travelers (see REST SITE)
Zoo	An area for the exhibition and study of animals
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of PARK is the extent of the developed area including all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If PARK has Park Type = Picnic Area and is < 0.01 square inches,
Then PARK is represented as a 0-dimensional basic feature object.

If PARK has Park Type = Picnic Area and is ≥ 0.01 square inches,
Then PARK is represented as a 2-dimensional basic feature object.

If PARK has Park Type ≠ Picnic Area,
Then PARK is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If PARK is not a picnic area,
Or
If PARK is a picnic area and has more than one picnic table,
Then capture.

Attribute Information

If PARK is primarily for horticultural exhibition,
Then Park Type = Botanical (eg. Cypress Gardens, Missouri Botanical Garden, Arboretum, Aquatic Gardens, etc.).

If PARK is Exotic Animal Paradise, Safari Land, etc.,
Then Park Type = Zoo.

If Park has multiple activities,
Then Park Type = General Case.

If Park Type = Amusement,
Then Name = Unspecified.

Source Interpretation Guidelines

All

"Since each view is independent of the other views, a single point on the surface of the Earth can be
represented under multiple views, and features within any one view may coexist with features in the
same or other views." (See Circular 1048 An Enhanced Digital Line Graph Design). A PARK may
totally or partially coincide with a feature which is another complex (CAMPGROUND, OUTDOOR
THEATER, SPORTS SITE, ATHLETIC FIELD, etc.) or a RESERVATION. A feature captured as
complex represents the "cover of intensive use..." whereas the feature captured as RESERVATION
represents the bounded area under a particular administration.

If Park Type = Amusement, Botanical, Parade Ground, Picnic Area, or Zoo, it may exist inside a larger
PARK that has other activities. In this situation, capture each area as PARK. The area of each PARK
is exclusive.

If PARK provides only facilities for athletic activities,
Then do not capture as PARK. See ATHLETIC FIELD.

If an area meets the definition of PARK and is also part of RESERVATION,
Then capture both PARK and RESERVATION.

Graphic

All city PARKS will be captured as PARK even though they may be symbolized by a reservation
boundary line. There will no longer be a distinction made by boundary symbol between large and
small city PARKS.

If Park Type = Picnic Area and the area cannot be determined,
Then capture as a 0-dimensional feature at the apex of the legs of the picnic table symbol.

If area is labeled "Recreation Area",
Then capture as PARK, Park Type = General Case.

If area is labeled "Roadside Park" or "Wayside Park",
Then do not capture as PARK. See REST SITE (Transportation theme).

Areas labeled "Playground" on the map are not collected.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   PARK_P001
Dimension: 0

⊞ NAM

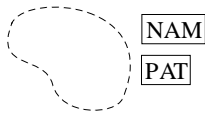| Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Symbol Orientation Orientation: base parallel to south projection line Origin: center of symbol	**Name:** Color: Red Style: UL C/lc Size: 7 Spacing: 0
Park Type	Picnic Area	Symbol Color: Red Height: 0.17"	

Symbol#:   PARK_A001
Dimension: 2

Amusment
Park
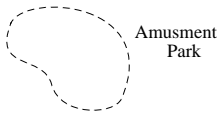
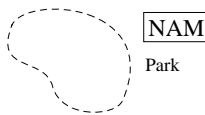| Attribute	Value	Symbol Specs	Type Specs
Park Type	Amusement	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   PARK_A002
Dimension: 2

NAM
Botanical
Garden

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003"	**Label:** Color: Black Style: UL C/lc
Park Type	Botanical	Dash Length: 0.04" Dash Spacing: 0.02"	Size: 7 Spacing: 0

Name:
Color: Black
Style: UL CAPS or C/lc
Size: 7
Spacing: 0

Symbol#: PARK_A003
Dimension: 2

| NAM |
| PAT |

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Name and Park Type:** Color: Black Style: UL CAPS or C/lc Size: 7 Spacing: 0
Park Type	Parade Ground or Zoo		

Symbol#: PARK_A004
Dimension: 2

| NAM |
| Park |

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Park Type	General Case		**Name:** Color: Black Style: UL CAPS or C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If perimeter of 2-dimensional PARK symbol_coalesces with a Nation, State, County, City, or Reservation BOUNDARY LINE; RAILWAY; ROAD; SHORELINE; or STREAM/RIVER,
Then suppress_section.

If PARK coincides PARK or RESERVATION,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will
continue until all features are completed.

Selection

If PARK is contained by RESERVATION, and RESERVATION Name = PARK Name,
Then do not show PARK Name.

Placement

TBD

EXAMPLES

Anaheim, CA (Disneyland)
Berwyn, IL (Chicago Zoological Park)
Brooklyn, NY (Brooklyn Botanic Gardens, Parade Ground, Zoo)
Eloise, FL (Cypress Gardens)
Fort Peck, MT (Coleman Wildlife Park (zoo))
Gregory, MI (Roadside Park)
Louisville East, KY (Zoo)
Naples North, FL (Carribean Gardens)
Ocala West, FL (Amusement park)
Parris Island, SC (2 parade grounds)
Shawano, WI (Wayside Park, Heritage County Park (picnic area))
Stafford, MO (Exotic Animal Paradise)
Washington West, DC-MD (National Arboretum, Kenilworth Aquatic Gradens)
Webster Grove, MO (Missouri Botanical Garden)
Windermere, FL (Disney World)

PIER/BREAKWATER/JETTY - Structure extending in the longest dimension from the shore or positioned offshore for protection, berthing vessels, or recreation.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Operational Status	State or condition
Ruined	
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Pier/Breakwater/Jetty Type	Function or purpose
Breakwater	Offshore structure to break the force of waves
Jetty	Extending from the shore to restrain or direct current or tide
Pier	Extending from the shore for berthing or recreation
Unspecified	The value is not known and is not required

DELINEATION

The limit of PIER/BREAKWATER/JETTY is the extent of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		< 0.02"	
2-dimensional		≥ 0.02"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If PIER/BREAKWATER/JETTY is above the water surface and is named,
Or
If PIER/BREAKWATER/JETTY is above the water surface and is ≥ 0.05" along the longest axis,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

The line of contact between a body of water and the land is captured as SHORELINE or NONEARTHEN SHORE. Other structures such as DAM/WEIR, PIER/BREAKWATER/JETTY, or WHARF may coincide with the SHORELINE or NONEARTHEN SHORE, in which case both features are captured.

If PIER/BREAKWATER/JETTY does not meet capture conditions,
Then see NONEARTHEN SHORE or SHORELINE.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: PIER_BREAKWATER_JETTY_L001
Dimension: 1

NAM
PBJ

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	<u>Line</u> Color: Black Lineweight: 0.007"	**Name and Pier/Breakwater/Jetty Type:** Color: Black Style: UI CAPS
Operational Status	Unspecified		Size: 5-7
Pier/Breakwater/Jetty Type	Breakwater or Jetty		Spacing: 0

Symbol#: PIER_BREAKWATER_JETTY_L002
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	<u>Line</u> Color: Black Lineweight: 0.007"	**Name:** Color: Black Style: UI CAPS
Operational Status	Unspecified		Size: 5-7
Pier/Breakwater/Jetty Type	Pier or Unspecified		Spacing: 0

Symbol#:   PIER_BREAKWATER_JETTY_L003
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.007"	**Name:** Color: Black Style: UI CAPS
Operational Status	Ruined	Dash Length: 0.02" Dash Spacing: 0.01"	Size: 5-7 Spacing: 0

Symbol#:   PIER_BREAKWATER_JETTY_A001
Dimension: 2

NAM

PBJ

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.003"	**Name and Pier/Breakwater/Jetty Type:**
Operational Status	Unspecified		Color: Black Style: UI CAPS
Pier/Breakwater/Jetty Type	Breakwater or Jetty		Size: 5-7 Spacing: 0

Symbol#:   PIER_BREAKWATER_JETTY_A002
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.003"	**Name:** Color: Black Style: UI CAPS
Operational Status	Unspecified		Size: 5-7 Spacing: 0
Pier/Breakwater/Jetty Type	Pier or Unspecified		

Symbol#:   PIER_BREAKWATER_JETTY_A003
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003"	**Name:** Color: Black Style: UI CAPS
Operational Status	Ruined	Dash Length: 0.02" Dash Spacing: 0.01"	Size: 5-7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If PIER/BREAKWATER/JETTY does not coincide SEA/OCEAN,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If PIER/BREAKWATER/JETTY is < 1" along the longest axis,
Then do not show label.

Placement

If Name or Label cannot be positioned parallel to symbol,
Then change to:

Color: Black
Style: UL C/lc
Size: 7-8
Spacing: 0

If Name cannot be positioned parallel to symbol,
Then place Name or Label adjacent to furthest seaward extent of PIER/BREAKWATER/JETTY, parallel to south projection line and if there is more than one word in the name, stacked flush on the side adjacent to the PIER/BREAKWATER/JETTY.

EXAMPLES

Apra Harbor, GU (Breakwater and SHORELINE)
Boston South, MA
Camas, WA
Daytona Beach, FL

Jersey City, NJ-NY (Ruined pier)
New Orleans West, LA
Norfolk North, VA
Norfolk South, VA
San Fransisco South, CA
Santa Barbara, CA
South Amboy, NJ-NY (Ruined pier)

PIPELINE - A closed conduit, with pumps, valves and control devices, for conveying fluids, gases, or finely divided solids.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Product	Principal commodity involved
Unspecified	The value is not known and is not required
Relationship to Surface	Vertical location relative to the surface
At or Near	At or slightly above the surface
Elevated	Supported above the earth
Underground	Buried
Unspecified	The value is not known and is not required

DELINEATION

The limit of PIPELINE that is underground is the edge of the ground scars or linear clearings.

The limit of PIPELINE that is at or near the ground or elevated, is the extent of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT
Is Above		UNDERPASS

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If PIPELINE is aboveground and is outside of a congested area; and is a trunk line; and is ≥ 0.25" from a paralleling road, railway, or other linear feature,
Or
If PIPELINE is underground and surface scars are present; and is outside of a congested area; and is a trunk line; and is ≥ 0.25" from a paralleling road, railway, or other linear feature,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If PIPELINE is elevated over a depression by a structure built for that purpose,
Then capture only PIPELINE, with Relationship to Surface = Elevated.

If PIPELINE is within TUNNEL,
Then capture both PIPELINE and TUNNEL.

If PIPELINE conveys water,
Then collect in the theme Hydrography.

If PIPELINE conveys a product other than water,
Then collect in the theme Built-up.

Trunk pipelines are those that transport raw materials from central gathering points in producing areas
to refineries or terminals, or those that transport products from refineries to large consumer areas.

Graphic

If PIPELINE is labeled "Pipeline Bridge",
Then capture PIPELINE, with Relationship to Surface = Elevated.

Revision - General

Revision - Standard

Revision - Limited

Revise aboveground pipelines only. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   PIPELINE_L001
Dimension: 1

NAM

ABOVEGROUND PIPELINE

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Line Color: Black Lineweight: 0.005"	**Label and Name:** Color: Black Style: UI CAPS Size: 5-6 Spacing: 0
Product	Unspecified		
Relationship to Surface	At or Near		

NOTE: This symbol applies only to the theme Built-up

Symbol#: PIPELINE_L002
Dimension: 1

ELEVATED

Attribute	Value	Symbol Specs	Type Specs
Product	Unspecified	Line Color: Black Lineweight: 0.005"	**Label:** Color: Black Style: UI CAPS Size: 5-6 Spacing: 0
Relationship to Surface	Elevated		
		Wing Ticks Color: Black Lineweight: 0.003" Length: 0.023" Positioning: pair of ticks meet at each end of line, apex pointing toward line at 45 degrees (inside angle between ticks)	

NOTE: This symbol applies only to the theme Built-up

Symbol#: PIPELINE_L003
Dimension: 1

NAM
PIPELINE

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Black Lineweight: 0.005" Dash Length: 0.1" Dash Spacing: 0.02"	**Label and Name:** Color: Black Style: UI CAPS Size: 5-6 Spacing: 0
Product	Unspecified		
Relationship to Surface	Underground		

NOTE: This symbol applies only to the theme Built-up

Symbol#: PIPELINE_L004
Dimension: 1

NAM

ABOVEGROUND PIPELINE

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Line Color: Blue Lineweight: 0.008"	**Label and Name:** Color: Blue Style: UI CAPS Size: 5-6 Spacing: 0
Pipeline Type	General Case		
Product	Water		
Relationship to Surface	At or Near		

NOTE: This symbol applies only to the theme Hydrography
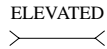
Symbol#: PIPELINE_L005
Dimension: 1

NAM

PIT

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Line Color: Blue Lineweight: 0.008"	**Name and Pipeline Type:** Color: Blue Style: UI CAPS Size: 5-6 Spacing: 0
Pipeline Type	Aqueduct or Penstock		
Product	Water		
Relationship to Surface	At or Near		

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   PIPELINE_L006
Dimension: 1

ELEVATED

Attribute	Value	Symbol Specs	Type Specs
Pipeline Type	General Case	<u>Line</u> Color: Blue Lineweight: 0.008"	**Label:** Color: Blue Style: UI CAPS Size: 5-6
Product	Water		Spacing: 0
Relationship to Surface	Elevated	<u>Wing Ticks</u> Color: Blue Lineweight: 0.003" Length: 0.023" Positioning: pair of ticks meet at each end of line, apex pointing toward line at 45 degrees (inside angle between ticks)	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   PIPELINE_L007
Dimension: 1

NAM

PIPELINE

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	<u>Dashed Line</u> Color: Blue Lineweight: 0.008" Dash Length: 0.05" Dash Spacing: 0.02"	**Label and Name:** Color: Blue Style: UI CAPS Size: 5-6 Spacing: 0
Pipeline Type	General Case		
Product	Water		
Relationship to Surface	Underground		

NOTE: This symbol applies only to the theme Hydrography

Symbol#: PIPELINE_L008
Dimension: 1

NAM

PIT
_ _ _ _ _ _ _ _

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Blue Lineweight: 0.008" Dash Length: 0.05" Dash Spacing: 0.02"	**Name and Pipeline Type:** Color: Blue Style: UI CAPS Size: 5-6 Spacing: 0
Pipeline Type	Aqueduct or Penstock		
Product	Water		
Relationship to Surface	Underground		

NOTE: This symbol applies only to the theme Hydrography

Symbol#: PIPELINE_L009
Dimension: 1

NAM

SIPHON
_ _ _ _ _ _ _ _

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Line Color: Blue Lineweight: 0.008" Dash Length: 0.05" Dash Spacing: 0.02"	**Label and Name:** Color: Blue Style: UI CAPS Size: 5-6 Spacing: 0
Pipeline Type	Siphon		
Product	Water		

NOTE: This symbol applies only to the theme Hydrography

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If PIPELINE, with Relationship to Surface = Elevated is < 0.5" along the longest axis,
Then suppress label.

Placement

TBD

EXAMPLES

Carmel, IN
Carpinteria, CA
New Cuyama, CA
Valdosta, GA
Wolf Creek Pass, CO

PIPELINE REGULATION STATION - An ancillary facility that controls the flow of fluids or gasses along a pipeline route.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Pipeline Regulation Station Type	Function or purpose
Compressor	Used to compact the flow
Pumping	Used to create flow or to raise the flow
Valve	Used to direct or regulate the flow

DELINEATION

The limit of PIPELINE REGULATION STATION is the extent of the area encompassing the structures, often delimited by a fence.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.06"
1-dimensional			
2-dimensional			≥ 0.06"

Special Conditions:

DATA EXTRACTION

Capture Conditions

If PIPELINE REGULATION STATION is not within BUILT-UP AREA,
Then capture.

Attribute Information

If PIPELINE REGULATION STATION is a "booster plant",
Then Pipeline Regulation Station Type = Pumping.

Source Interpretation Guidelines

All

If capture conditions for BUILDING and other structures within PIPELINE REGULATION STATION are met,
Then capture PIPELINE REGULATION STATION and BUILDING and other structures.

Do not capture pipeline regulation stations housed in a building as PIPELINE REGULATION STATION. See BUILDING.

A "booster plant" will be captured as PIPELINE REGULATION STATION if capture conditions are met.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions
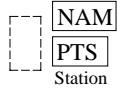
        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   PIPELINE_REGULATION_STATION_P001
Dimension: 0

NAM
PTS
Station

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Symbol Orientation Orientation: parallel to south projection line	**Label, Name, and Pipeline Regulation Station Type:** Color: Black
Pipeline Regulation Station Type	Compressor, Pumping, or Valve	Filled Square Color: Black Screen: 100% Dimension 1: 0.02" Dimension 2: 0.02"	Style: UL C/lc Size: 7 Spacing: 0

Symbol#: PIPELINE_REGULATION_STATION_A001
Dimension: 2

```
┌ ─ ┐ ┌─────┐
    │ │ NAM │
│   │ ├─────┤
    │ │ PTS │
└ ─ ┘ └─────┘
       Station
```

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Label, Name, and Pipeline Regulation Station Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Pipeline Regulation Station Type	Compressor, Pumping, or Valve		

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Anns Butte, OR
Canfield, OH
Halifax, PA
La Clima, CA

POPULATED PLACE - A place or area with clustered or scattered buildings and a permanent human population.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Population	Number of inhabitants
(Integer Value)	Minimum Value: 1 Maximum Value: 999999 Precision: 0 Length: 6 Increment: 1 Units:

DELINEATION

The limit of POPULATED PLACE is the extent of the area known by that Name.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If POPULATED PLACE is outside of an incorporated city, and has at least one permanently occupied building, and is named,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#: POPULATED_PLACE_A001
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 1 and 25 inclusive		Style: SM C/lc Size: 8 Spacing: 0

Symbol#: POPULATED_PLACE_A002
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 26 and 150 inclusive		Style: SM C/lc Size: 9 Spacing: 0

Symbol#:   POPULATED_PLACE_A003
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 151 and 999 inclusive		Style: SM C/lc Size: 10 Spacing: 0

Symbol#:   POPULATED_PLACE_A004
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 1000 and 2500 inclusive		Style: SM C/lc Size: 11 Spacing: 0

Symbol#:   POPULATED_PLACE_A005
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 2501 and 5000 inclusive		Style: SM C/lc Size: 12 Spacing: 0

Symbol#:   POPULATED_PLACE_A006
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 5001 and 10000 inclusive		Style: SM CAPS Size: 10 Spacing: 1-10

Symbol#:   POPULATED_PLACE_A007
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 10001 and 25000 inclusive		Style: SM CAPS Size: 12 Spacing: 1-10

Symbol#:   POPULATED_PLACE_A008
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black
Population	between 25001 and 250000 inclusive		Style: SM CAPS Size: 14 Spacing: 1-10

Symbol#:   POPULATED_PLACE_A009
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:**
Population	between 250001 and 999999 inclusive		Color: Black
			Style: SM CAPS
			Size: 16
			Spacing: 1-10

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Farmer, WA (Label 'Farmer' refers to three class 1 BUILDINGS, one class 2 BUILDING)
Vienna, VA (Label 'Reston')

POWER SITE - A group of associated structures, functioning as a unit, used for generating electricity.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Energy Source	Fuel or resource used to produce electricity
Fossil Fuel	
Geothermal	
Nuclear Fuel	
Sun	
Unspecified	The value is not known and is not required
Water	
Wind	
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of POWER SITE is the extent of the area encompassing the group of associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If POWER SITE is operated for public use,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale
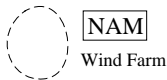
    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: POWER_SITE_A001
Dimension: 2

NAM
Wind Farm

Attribute	Value	Symbol Specs	Type Specs
Energy Source	Wind	**Dashed Area Perimeter** Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	Style: UL CAPS or C/lc Size: 7 Spacing: 0-3

Symbol#: POWER_SITE_A002
Dimension: 2

NAM
Solar
Panel
Area
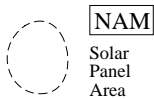
Attribute	Value	Symbol Specs	Type Specs
Energy Source	Sun	**Dashed Area Perimeter** Color: Black	**Label and Name:** Color: Black
Name	(Alphanumeric) or Unspecified	Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	Style: UL CAPS or C/lc Size: 7 Spacing: 0-3

Symbol#: POWER_SITE_A003
Dimension: 2

NAM
Power
Plant

Attribute	Value	Symbol Specs	Type Specs
Energy Source	Fossil Fuel, Geothermal, Nuclear Fuel, Unspecified, or Water	N/A	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 7 Spacing: 0-3
Name	(Alphanumeric) or Unspecified		

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Ambridge, PA
Berrick, PA
Cove Point, MD (Calvert Cliffs Nuclear Powerplant)
Middletown, PA (Three Mile Island)
Perth Amboy, NJ
Red Level, FL
Sid Town, MI

PROSPECT - A marked location where mineral exploration has occurred but no mine has been developed.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of PROSPECT is the edge of the area where mineral exploration has occurred.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If PROSPECT is landmark,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If PROSPECT is in an area of closely spaced prospects,
Then first capture named PROSPECTS, then those that are on the perimeter of the area, then those that
are most prominent, then finally capture a representative pattern of PROSPECTS internal to the area.
PROSPECTS must be captured in their correct position. The symbols may overlap to reflect the
density of PROSPECTS.

PROSPECT must have a readily identifiable scar with significant evidence of mineral exploration.

Graphic

Capture all.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: PROSPECT_P001
Dimension: 0

NAM

χ Prospect

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Cross Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.067" Line 2 Length: 0.067" Intersect Angle: 60˚ Symbol Orientation Orientation: 60-degree angles point towards north and south projection lines, each leg of cross forms 60-degree and 120-degree angles with south projection line Origin: intersection of the two lines	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Blue Nose Mountain, CA
Humboldt, AZ

PROVING GROUND - An area set aside for performance testing.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of PROVING GROUND is the extent of the area encompassing all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If PROVING GROUND is associated with the performance testing of motor vehicles,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: PROVING_GROUND_A001
Dimension: 2

NAM
Proving
Ground

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL CAPS or C/lc Size: 7 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Aberdeen, MD (US Military Reservation)
    Dearborn, MI (Ford Motor Co.)

RACETRACK - A course laid out for racing.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of RACETRACK is the edge of the track.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		< 0.02"	
1-dimensional			
2-dimensional		≥ 0.02"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If RACETRACK is improved and maintained,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Only the racing course will be captured as RACETRACK. The roads used for access and maintenance
will be captured as ROAD. In some cases it will be difficult to determine which are which, as some
race courses are irregularly shaped. The Daytona International Speedway is an example of a facility
having an oval track, an irregularly shaped track and access roads intertwined.

Graphic

A single dashed line, with or without the label 'Athletic Track', will be collected as ATHLETIC
FIELD.

A heavy solid, double solid, or double dashed line is a track for vehicle or animal racing, and will be
captured as RACETRACK.

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: RACETRACK_L001
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Line Color: Black Lineweight: 0.02" Screen: 50%, 150-line biangle	N/A

Symbol#: RACETRACK_A001
Dimension: 2

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Area Fill Color: Black Screen: 50%, 150-line biangle	N/A

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Albuquerque West, NM
Baltimore West, MD
Bristol, MD
Columbus, NJ
Daytona Beach, FL
Elgin, IL
Grandview, MA
Hogansburg, NY
Indianapolis West, IN
Louisville West, KY
Lynbrook, NY
Mays Landing, NJ
North Miami, FL
Smithfield, UT
South Amboy, NJ

RECREATIONAL SLIDE - An amusement structure consisting of a smooth, usually inclined, surface or track for sliding.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of RECREATIONAL SLIDE is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If RECREATIONAL SLIDE is ≥ 0.5" along the longest axis and is not in an amusement park,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

Capture bobsled and luge runs as RECREATIONAL SLIDE.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

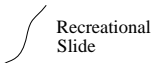DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#: RECREATIONAL_SLIDE_L001
Dimension: 1

Recreational Slide

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Line Color: Black Lineweight: 0.005"	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    Names and Labels

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

    Keene Valley, NY (Bobsled and luge runs)

RESERVOIR - A constructed basin formed to contain water or other liquids.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Construction Material	Predominant material used
Nonearthen	Constructed of concrete, brick or stone
Elevation	The vertical distance from a given datum
(Integer Value)	Minimum Value: -1289 Maximum Value: 29030 Precision: 0 Length: 5 Increment: 1 Units: feet
Unspecified	The value is not known and is not required
Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Reservoir Type	Function or purpose
Disposal	For disposal
Disposal Type	Function or purpose
Oil Sump	Containing oil to be salvaged or stored
Sludge Pit	Containing residues accumulated during petroleum refining

DELINEATION

The limit of RESERVOIR is the rim of the constructed basin.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		< 0.03"	
1-dimensional			
2-dimensional		< 0.03"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If RESERVOIR is a sludge pit or an oil sump, and is $\geq$ 0.03" along the shortest axis, and is associated with an oil refinery or a central pipeline distribution junction,
Then capture.

Attribute Information

If RESERVOIR has a printed elevation on a 1:24,000-scale graphic,
Then Elevation = (Integer Value),
Else Elevation = Unspecified.

If Reservoir Type = Disposal and Disposal Type = Sludge Pit or Oil Sump,
Then Construction Material = Nonearthen.

Reservoir Type = Unspecified only in limited update. See Source Interpretation Guidelines, Revision.

Source Interpretation Guidelines

All

If RESERVOIR is < 0.03" along the shortest axis and is within 0.02" of another RESERVOIR with the same attribute values,
Then capture as one RESERVOIR only if the combined areas are $\geq$ 0.03" along the shortest axis.

If two RESERVOIRS are < 0.005" apart and have the same attribute values,
Then capture as two RESERVOIRS with a shared perimeter line.

If two RESERVOIRS are < 0.005" apart and do not have the same attribute values,
Then displace the perimeter lines equally and capture so that the perimeter lines are 0.005" apart.

If RESERVOIR is an oil sump or sludge pit,
Then collect in the theme Built-Up.

If RESERVOIR is not an oil sump or sludge pit,
Then collect in the theme Hydrography.

If RESERVOIR is divided by wire mesh, screens, or grates,
Then do not capture the resulting divisions as separate RESERVOIRS.

Graphic

If RESERVOIR is symbolized with a black outline,
Then Construction Material = Nonearthen.

If RESERVOIR is symbolized with a blue or brown outline,
Then Construction Material = Earthen.

If RESERVOIR is < 0.03" along the shortest axis, and shares an outline with another RESERVOIR
with the same attribute values, and their combined area is ≥ 0.03" along the shortest axis,
Then capture the combined areas as one RESERVOIR.

Revision - General

Revision - Standard

Revision - Limited

Reservoir Type = Unspecified for newly collected RESERVOIRS. Retain Reservoir Type on existing
RESERVOIRS.

Elevation = Unspecified for newly collected RESERVOIRS. Retain Elevation on existing
RESERVOIRS.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#:   RESERVOIR_P001
Dimension: 0

NAM
TRT
○

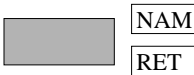| Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	<u>Circle</u> Color: Black Lineweight: 0.003" Diameter: 0.03"	**Name and Treatment Type:** Color: Black Style: UL C/lc Size: 7
Reservoir Type	Treatment		Spacing: 0
Treatment Type	Filtration Pond or Sewage Treatment Pond	<u>Fill</u> Color: Blue Screen: 8%, 120-line at 105°	
		<u>Symbol Orientation</u> Origin: center of symbol	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_P002
Dimension: 0

∘ NAM

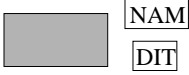| Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.03"	**Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Reservoir Type	Water Storage		
		Fill Color: Blue Screen: 8%, 120-line at 105°	
		Symbol Orientation Origin: center of symbol	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A001
Dimension: 2

NAM
RET

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Fill Color: Blue Screen: 8%, 120-line at 105°	**Name and Reservoir Type:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Reservoir Type	Aquaculture		
		Area Perimeter Color: Black Lineweight: 0.003"	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A002
Dimension: 2

NAM

DIT

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Nonearthen	Area Fill Color: Black	**Disposal Type and Name:**
Disposal Type	Oil Sump or Sludge Pit	Pattern: USGS 17	Color: Black Style: UL CAPS or C/lc
		Area Perimeter	Size: 7-10
Name	(Alphanumeric) or Unspecified	Color: Black Lineweight: 0.003"	Spacing: 0-2
Reservoir Type	Disposal		

NOTE: This symbol applies only to the theme Built-up

Symbol#:   RESERVOIR_A003
Dimension: 2

NAM

DIT

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Earthen	Area Fill Color: Brown	**Disposal Type and Name:**
Disposal Type	Tailings Pond	Pattern: USGS 19B	Color: Black Style: UL CAPS or C/lc
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Brown Lineweight: 0.003"	Size: 7-10 Spacing: 0-2
Reservoir Type	Disposal	Dash Length: 0.07" Dash Spacing: 0.02"	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A004
Dimension: 2

NAM
RET

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Unspecified	Area Perimeter Color: Blue Lineweight: 0.004"	**Name and Reservoir Type:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Name	(Alphanumeric) or Unspecified		
Reservoir Type	Evaporator		

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A005
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Earthen	Area Fill Color: Blue Pattern: USGS 17	**Name:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Cover Status	Not Covered		
Hydrographic Category	Intermittent	Area Perimeter Color: Blue Lineweight: 0.003"	
Name	(Alphanumeric) or Unspecified		
Reservoir Type	Water Storage		

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A006
Dimension: 2

NAM

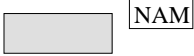| Attribute	Value	Symbol Specs	Type Specs
Construction Material	Earthen	Area Fill Color: Blue	**Name:** Color: Black
Cover Status	Not Covered	Screen: 8%, 120-line at 105°	Style: UL CAPS or C/lc Size: 7-10
Hydrographic Category	Perennial		Spacing: 0-2
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Blue Lineweight: 0.008"	
Reservoir Type	Water Storage		

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A007
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Nonearthen	Area Fill Color: Blue	**Name:** Color: Black
Cover Status	Not Covered	Screen: 8%, 120-line at 105°	Style: UL CAPS or C/lc Size: 7-10
Name	(Alphanumeric) or Unspecified	Area Perimeter Color: Black Lineweight: 0.003"	Spacing: 0-2
Reservoir Type	Water Storage		

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A008
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Nonearthen	Area Fill	**Name:**
		Color: Blue	Color: Black
Cover Status	Covered	Screen: 8%, 120-line at 150°	Style: UL CAPS or C/lc
			Size: 7-10
Name	(Alphanumeric) or Unspecified	Pattern: Hatch	Spacing: 0-2
		Hatch Lineweight: 0.002"	
Reservoir Type	Water Storage	Hatch Spacing: 0.02"	
		Hatch Orientation: 45-degrees NW to SE	
		Hatch Color: Black	
		Area Perimeter	
		Color: Black	
		Lineweight: 0.003"	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A009
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Nonearthen	Area Fill	**Name:**
		Color: Blue	Color: Black
Name	(Alphanumeric) or Unspecified	Screen: 8%, 120-line at 105°	Style: UL CAPS or C/lc
			Size: 7-10
			Spacing: 0-2
Reservoir Type	Decorative Pool or Swimming Pool	Area Perimeter	
		Color: Black	
		Lineweight: 0.003"	

NOTE: This symbol applies only to the theme Hydrography

Symbol#: RESERVOIR_A010
Dimension: 2

NAM
TRT

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Unspecified	Area Fill Color: Blue Screen: 8%, 120-line at 105°	**Name and Treatment Type:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Name	(Alphanumeric) or Unspecified		
Reservoir Type	Treatment	Area Perimeter Color: Black Lineweight: 0.003"	
Treatment Type	Cooling Pond, Filtration Pond, Settling Pond, or Sewage Treatment Pond		

NOTE: This symbol applies only to the theme Hydrography

Symbol#: RESERVOIR_A011
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Earthen	Area Fill Color: Blue Screen: 8%, 120-line at 105°	**Name:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Name	(Alphanumeric) or Unspecified		
Reservoir Type	Unspecified	Area Perimeter Color: Blue Lineweight: 0.008"	

NOTE: This symbol applies only to the theme Hydrography

Symbol#:   RESERVOIR_A012
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Construction Material	Nonearthen	Area Fill Color: Blue Screen: 8%, 120-line at 105°	**Name:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-2
Name	(Alphanumeric) or Unspecified		
Reservoir Type	Unspecified	Area Perimeter Color: Black Lineweight: 0.003"	

NOTE: This symbol applies only to the theme Hydrography

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If perimeter line of RESERVOIR coincides EMBANKMENT,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If RESERVOIR coincides AQUACULTURE SITE or INDUSTRIAL SITE and RESERVOIR Name = AQUACULTURE SITE Name or INDUSTRIAL SITE Name,
Then do not show RESERVOIR Name.

If RESERVOIR, with Reservoir Type = Treatment, Treatment Type = Sewage Treatment Pond coincides SEWAGE DISPOSAL PLANT,
Then do not show RESERVOIR label.

If RESERVOIR, with Reservoir Type = Treatment, Treatment Type = Filtration Pond coincides FILTRATION PLANT,
Then do not show RESERVOIR label.

Placement

TBD

EXAMPLES

    Courtland, AL (Clarifier and purification)
    Palo Alto, CA (Evaporator - salt)
    Fort Logan, CO (Filtration bed - covered)
    Cary, MS (Fish raising - fish farm)
    Martinsville, IN (Fish raising - fish hatchery)
    Benton, MS (Fish pond - to be captured as RESERVOIR)
    Anachoomalu, HI and Halawa, HI (Fish pond - not captured as RESERVOIR)
    Jonesborough, TN (Fish raising - minnows)
    Auburndale, FL (Industrial waste)
    Dos Pueblos Canyon, CA (Oil sump)
    Lamont, CA (Oil sump)
    Phoenix, AZ (Sewage disposal)
    Carpenteria, CA (Storage, water - perennial)
    New Cuyama, CA (Storage, water - intermittent)
    Del Sur, CA (Storage, water - intermittent)

SEWAGE DISPOSAL PLANT - A group of structures functioning as a unit used for the disposal of domestic water-born waste.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of SEWAGE DISPOSAL PLANT is the extent of the area encompassing all associated structures.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

Capture all.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   SEWAGE_DISPOSAL_PLANT_A001
Dimension: 2

NAM

Sewage
Disposal

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

    Beltsville, MD
    Fort Belvoir, VA
    Manassas, VA
    Piscataway, MD
    Point Pleasant, NJ
    Yorktown, VA

SHOPPING CENTER - A group of structures used for the sale of products and services.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of SHOPPING CENTER is the extent of the associated buildings and parking areas.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If SHOPPING CENTER is ≥ the average city block in the area,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Do not capture strip malls, which are chains of stores along roads, as SHOPPING CENTER. See
BUILDING.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   SHOPPING_CENTER_A001
Dimension: 2

NAM

Shopping
Center

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Falls Church, VA
Moorestown, NJ
Sunnyslope, AZ
Vienna, VA

SKI JUMP - An inclined structure consisting of a track from which snow skiers vault.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of SKI JUMP is the edge of the surface of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

<u>Capture Conditions</u>

Capture all.

<u>Attribute Information</u>

N/A

<u>Source Interpretation Guidelines</u>

All

Do not capture the landing area at the base of SKI JUMP.

Graphic

Capture Ski Slide as SKI JUMP.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Delete existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale
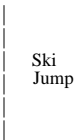
 Inclusion Conditions

  All required

 Generalization

PRODUCT GENERATION at 1:24,000 scale

 Symbolization

Symbol#: SKI_JUMP_L001
Dimension: 1

|
|
| Ski
| Jump
|
|

Attribute	**Value**	**Symbol Specs**	**Type Specs**
N/A	N/A	Dashed Line	**Label:**
		Color: Black	Color: Black
		Lineweight: 0.005"	Style: UL C/lc
		Dash Length: 0.1"	Size: 7
		Dash Spacing: 0.02"	Spacing: 0

 Conflict Detection and Resolution

  Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

 Names and Labels

  Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

  Selection

   TBD

Placement

TBD

EXAMPLES

Iron Mountain, MI
Lake Placid, NY

SPORTS SITE - A collection of facilities (open areas, structures) functioning as a unit for the purpose of holding sporting events and activities.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Sports Site Type	Function or purpose.
Golf Course	For playing golf.
Raceway	For all racing activities.
Ski Area	For skiing.
Unspecified	The value is not known and is not required

DELINEATION

The limit of SPORTS SITE is the extent of the area that contains the playing/activity area, as well as all associated facilities and parking areas.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

Capture Conditions

If SPORTS SITE is a golf course, raceway, or ski area,
Or
If SPORTS SITE is named,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

To collect the feature SPORTS SITE, the area must contain more than one facility. A Golf Course will include the playing grounds as well as club facilities, trails, etc. Raceways could include a track(s), grandstands, operator areas, pit areas, infields, kennels, stables, etc. Ski Areas could encompass lifts, jumps, trails, buildings, etc.

Graphic

Areas labeled as a Country Club on the graphic should be captured as SPORTS SITE, with Sports Site Type = Golf Course.

Do not capture areas labeled "Recreation Area" as SPORTS SITE. See PARK

Revision - General

Revision - Standard

Revision - Limited

    Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: SPORTS_SITE_A001
Dimension: 2

NAM

SST

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	N/A	**Name and Sports Site Type:** Color: Black
Sports Site Type	Golf Course, Raceway, Ski Area, or Unspecified		Style: UL CAPS or C/lc Size: 6-7 Spacing: 0-1

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

Placement

TBD

EXAMPLES

Anaheim, CA (Garden Grove Municipal Golf Course)
Baltimore East, MD (Clifton Park and Golf Course)
Baltimore West, MD (Pimlico Racetrack)
Bread Loaf, VT (Middlebury College Snow Bowl)
Charlestown, WV (Unlabeled raceway)
Crimson Dawn, WY (Hogadon Basin Ski Area)
Hialeah, FL (Hialeah Racetrack)
Hicksville, NY (Golf course)
Killington Peak, VT (Killington Ski Area)
Las Vegas, NV (Craig Road Speedway)
Laurel, MD (laurel Racetrack)
Louisville East, KY (Louisville Downs)
Louisville West, KY (Churchill Downs)
Lynbrook, NY (Belmont Park)
Miami, FL (Bayshore Golf Course)
Moriches, NY (New York National Speedway)
Odenton, MD (Bowie Racetrack)
Ogden, UT (Ogden Golf and Country Club)
San Fransisco South, CA (Golf course)
Seattle North, WA (University Golf Course)
Snow Basin, UT (Snow Basin Ski Area)
Vail East, CO (Ski area)
Wolf Creek Pass, CO (Wolf Creek Pass Ski Area)

SUBSTATION - An ancillary facility along a powerline route for transforming electrical current.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of SUBSTATION is the fence that encloses the transformers.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			< 0.06"
1-dimensional			
2-dimensional			≥ 0.06"

Special Conditions:

DATA EXTRACTION

<u>Capture Conditions</u>

If SUBSTATION is not within BUILT-UP AREA,
Then capture.

<u>Attribute Information</u>

<u>Source Interpretation Guidelines</u>

All

If capture conditions for BUILDING and other structures within SUBSTATION are met,
Then capture SUBSTATION and BUILDING and other structures.

Do not capture substations housed in a building as SUBSTATION. See BUILDING.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization
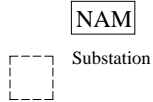
PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   SUBSTATION_P001
Dimension: 0

NAM

Substation

■

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	**Symbol Orientation** Orientation: parallel to south projection line	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
		Filled Square Color: Black Screen: 100% Dimension 1: 0.02" Dimension 2: 0.02"	

Symbol#:   SUBSTATION_A001
Dimension: 2

| NAM |

Substation

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Name	(Alphanumeric) or Unspecified	Dashed Area Perimeter Color: Black Lineweight: 0.003" Dash Length: 0.04" Dash Spacing: 0.02"	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If SUBSTATION symbol_coalesces (distance = 0.005") with ROAD,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Adelanto, CA (Outline of SUBSTATION dropped for ROAD)
Boise, ID
Chaney Ranch, CA (Named SUBSTATION)
Hahira East, GA (Plural label)
Lamont, CA (BUILDING and RAILWAY inside SUBSTATION)
Page, AZ (SUBSTATION, BUILDING, CONVEYOR)
Pulga, CA (SUBSTATION, BUILDING, penstock)
Winona, AZ

TANK - A large container used for storage.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Tank Type	Function or purpose
General Case	Common use
Product	Principal commodity involved
Unspecified	The value is not known and is not required
Water	
Guzzler	Small water tank designed to serve game birds and exclude large animals

DELINEATION

The limit of TANK is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		< 0.03"	
1-dimensional			
2-dimensional		≥ 0.03"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If TANK is a water tank and is landmark,
Or
If TANK is a water tank, and is in an arid region, and is ≥ 0.025" from a building,
Or
If TANK is a guzzler and the appropriate official agency that controls the area has given permission to map the feature,
Or
If TANK is not a water tank or guzzler and is ≥ 0.017" along the shortest axis,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If TANK is in an area of closely spaced tanks,
Then first capture named TANKS, then those that are on the perimeter of the area, then finally capture a representative pattern of TANKS internal to the area. TANKS must be captured in their correct position, and so that the symbols do not overlap.

Do not capture rain aprons.

Above ground cisterns are captured as TANK, with Tank Type = General Case and Product = Water.
Below ground cisterns are not captured.

Silos and storage bins are captured as TANK, with Tank type = General Case and Product = Unspecified.

Graphic

Do not capture blue outlines labeled "Stock Tank" or "Tank" as TANK. See LAKE/POND and RESERVOIR in the theme Hydrography.

Revision - General

Revision - Standard

Revision - Limited

Product = Unspecified for newly collected TANKS with Tank Type = General Case. Retain Product on existing TANKS.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Water
Tank

Symbol#: TANK_P001
Dimension: 0

Attribute	**Value**	**Symbol Specs**	**Type Specs**
Product	Water	<u>Dot</u> Color: Black	**Label:** Color: Black
Tank Type	General Case	Screen: 100% Diameter: 0.03"	Style: UL C/lc Size: 7 Spacing: 0

Symbol#: TANK_P002
Dimension: 0

⊙ Guzzler

Attribute	Value	Symbol Specs	Type Specs
Tank Type	Guzzler	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#: TANK_P003
Dimension: 0

•

Attribute	Value	Symbol Specs	Type Specs
Product	Unspecified	Dot Color: Black Screen: 100% Diameter: 0.03"	N/A
Tank Type	General Case		

Symbol#: TANK_A001
Dimension: 2

● Water
  Tank

Attribute	Value	Symbol Specs	Type Specs
Product	Water	Area Fill Color: Black Screen: 100%	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Tank Type	General Case		

Symbol#: TANK_A002
Dimension: 2

●

Attribute	Value	Symbol Specs	Type Specs
Product	Unspecified	Area Fill	N/A
		Color: Black	
Tank Type	General Case	Screen: 100%	

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If TANK coincides a control station which is monumented by a tablet,
Then suppress_section and show label only.

If TANK is 0-dimensional and coincides a horizontal control station,
Then suppress_symbol. (retain label if appropriate)

If TANK symbol_coalesces a horizontal control station,
Then symbol_displace.

If TANK is 2-dimensional and coincides a horizontal control station,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Chamblee, GA
Fillmore, CA
Red Pass Lake NW, CA (Guzzler)

TOWER - A tall framework or structure, the height of which is required by its function.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Tower Type	Function or purpose
Communication	For elevating communication systems
Control	For air traffic control
Cooling	For use in power generation
Lookout	For observation or for spotting forest fires
Navigation	For determining position and safe course
Unspecified	The value is not known and is not required
Water	
Water Intake	For support of water intake structures

DELINEATION

The limit of TOWER is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		< 0.03"	
1-dimensional			
2-dimensional		≥ 0.03"	

Special Conditions:

DATA EXTRACTION

Capture Conditions

If TOWER is a lookout tower and is not an integral part of a wall or other structure,
Or
If TOWER is a communication tower, and is not on BUILDING,
Or
If TOWER is a water tower and is >= 0.025" in height,
Or
If TOWER is a navigation tower and is on a NOS chart,
Or
If Tower is other than a lookout tower, water tower, navigational tower, or communication tower, and is not on a transmission line,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

Graphic

Located object symbols labeled 'Carillon' will be collected as TOWER, with Tower Type = Unspecified.

If TOWER is labeled, 'Radio', 'Microwave', 'Relay', 'Repeater', 'Antenna', or 'Range', Then Tower Type = Communication.

Do not capture buildings labeled 'Lookout' as TOWER. See BUILDING.

Do not capture individual towers shown on transmission lines.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization
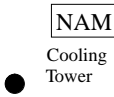
PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   TOWER_P001
Dimension: 0

NAM

○ TOT Tower

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04"	**Label, Name, and Tower Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Tower Type	Communication, Control, Cooling, Lookout, Unspecified, Water, or Water Intake	Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	

Symbol#:   TOWER_P002
Dimension: 0

Beacon

⊙

Attribute	Value	Symbol Specs	Type Specs
Tower Type	Navigation	Circle Color: Black Lineweight: 0.003" Diameter: 0.04" Dot Color: Black Diameter: 0.006" Positioning: centered in circle Symbol Orientation Origin: center of symbol	**Label:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

Symbol#:   TOWER_A001
Dimension: 2

NAM

Cooling
Tower

●

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Area Fill Color: Black Screen: 100%	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Tower Type	Cooling		

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If TOWER is 0-dimensional and coincides a horizontal control station,
Then suppress_symbol (retain label if appropriate).

If TOWER symbol_coalesces a horizontal control station,
Then symbol_displace.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Alice North, TX (Radio TOWERS with and without call letters)
Chincoteague west, VA (Lookout TOWERS)
Cove Point, MD (Cooling TOWERS, incorrect symbology)
Dededo, GU (Radio TOWERS)
Edmonds East, WA
Middletown, PA (Cooling TOWERS)
Moccasin Mesa, CO (Named TOWERS)
Pearl Harbor, HI (Control TOWERS)
Pulga, CA (Lookout TOWER)
San Fernando, CA (Intake TOWER)

TRANSMISSION LINE - A system of wires that transmits electrical signals or electricity over distance.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Transmission Type	Function or purpose
Power	For transmitting electricity
Telephone	For transmitting telephone communications

DELINEATION

The limit of TRANSMISSION LINE is the outer extent of the system of wires.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If TRANSMISSION LINE is above ground and outside of a congested area; and is a major cross-country, metal, concrete, or double wooden pole line; and is ≥ 0.25" from a paralleling road, railway, or other linear feature,
Or
If TRANSMISSION LINE is a single wooden pole line and is landmark,
Or
If TRANSMISSION LINE is above ground and is a telephone line and is landmark,
Or
If TRANSMISSION LINE is above ground and crosses BUILT-UP AREA for a distance of less than one mile; and is a metal, concrete, or double wooden pole line; and is ≥ 0.25" from a paralleling road, railway, or other linear feature,
Then capture.

Attribute Information

If TRANSMISSION LINE is labeled or designated "Telephone",
Then Transmission Type = Telephone,
Else Transmission Type = Power.

Source Interpretation Guidelines

All

Graphic

Capture all except telegraph lines.

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale
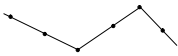
    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   TRANSMISSION_LINE_L001
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
Transmission Type	Power	Dot Color: Black Screen: 100% Diameter: 0.017" Positioning: placed at each azimuth change along TRANSMISSION LINE and every 0.2" between azimuth changes Line Color: Black Lineweight: 0.003"	N/A

Symbol#:   TRANSMISSION_LINE_L002
Dimension: 1

— — — — — — — —   Telephone

Attribute	Value	Symbol Specs	Type Specs
Transmission Type	Telephone	Dashed Line	**Label:**
		Color: Black	Color: Black
		Lineweight: 0.005"	Style: UI CAPS
		Dash Length: 0.1"	Size: 5
		Dash Spacing: 0.02"	Spacing: 0-10

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If TRANSMISSION LINE symbol_follows RAILWAY or ROAD, separation < 0.05", distance ≥ 0.05",
Then suppress_section.

If TRANSMISSION LINE coincides with BOUNDARY LINE that is associated with CITY, COUNTY, MINOR CIVIL DIVISION, NATION, or STATE/TERRITORY,
Then suppress_section.

If TRANSMISSION LINE crosses through BUILT-UP AREA for a distance ≥ 1 mile,
Then suppress_section.

If TRANSMISSION LINE symbol_coalesces TOWER,
Then suppress_section.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Boston North, MA (TRANSMISSION LINES with and without TOWERS - within BUILT-UP AREA)
Cascadel Point, CA (TRANSMISSION LINES - dots shown between TOWERS)
Oil City, PA (Telephone line)
University Park, FL (Two parallel TRANSMISSION LINES - no TOWERS)

UNDERPASS - The grade separation where part or all of one feature instance is directly above part or all of another feature instance.

ATTRIBUTE/ATTRIBUTE VALUE LIST

N/A

DELINEATION

The limit of UNDERPASS is the extent of the horizontal area where the two separated feature instances overlap.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT
Is Above		BUILDING

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional			

Special Conditions:

If the feature object above UNDERPASS is 0-dimensional, and the feature object below UNDERPASS is 1-dimensional, or vice-versa,
Then UNDERPASS is represented as a 0-dimensional basic feature object.

If the feature object above and the feature object below UNDERPASS are both 1-dimensional, and they are not collinear in the planar graph,
Then UNDERPASS is represented as a 0-dimensional basic feature object.

If the feature object above and the feature object below UNDERPASS are both 1-dimensional, and they are at least partially collinear in the planar graph (they share at least one chain if in the same surface, or some linear portion of their chains match if in different surfaces),
Then UNDERPASS is represented as a 1-dimensional basic feature object.

If the feature object above UNDERPASS is 1-dimensional and the feature object below UNDERPASS is 2-dimensional, or vice-versa,
Then UNDERPASS is represented as a 1-dimensional basic feature object.

If the feature object above and the feature object below UNDERPASS are both 2-dimensional,
Then UNDERPASS is represented as a 2-dimensional basic feature object.

DATA EXTRACTION

Capture Conditions

If UNDERPASS occurs where BUILDING, CANAL/DITCH, RAILWAY, ROAD, or
RUNWAY/APRON/TAXIWAY cross over each other at different levels, and if there is no captured
structure indicating vertical relationship (for example, BRIDGE, TUNNEL, or FORD) and the vertical
relationship is not otherwise inferable,
Then capture.

Attribute Information

N/A

Source Interpretation Guidelines

All

UNDERPASS typically occurs where two roads cross without intersecting, but may also occur in other
situations, such as when a building is above and straddling a road.

Do not capture UNDERPASS, even if there is no captured separating structure, between ROAD or
RAILWAY, and a waterbody. Without a structure, ROAD or RAILWAY is always assumed to be
above the waterbody, never below.

Only two feature objects may be involved in instances of the Is Above relationship with an
UNDERPASS feature object. In a case of three or more feature objects overpassing each other at the
same place, only vertically adjacent feature objects are involved in Is Above relationship instances
with any one UNDERPASS feature object. Thus, a triple level stacking of feature objects requires two
UNDERPASS feature objects; one UNDERPASS between the top and middle feature objects, and the
other UNDERPASS between the middle and bottom feature objects.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   UNDERPASS_P001
Dimension: 0

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	N/A	N/A

Symbol#:   UNDERPASS_L001
Dimension: 1

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	N/A	N/A

Symbol#:   UNDERPASS_A001
Dimension: 2

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	N/A	N/A

    Conflict Detection and Resolution

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

N/A

Placement

N/A

EXAMPLES

WALL - An upright structure of masonry, wood, plaster, or other building material serving to enclose, divide, or protect an area.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Wall Type	Function or purpose
General Case	Common use
Sea	A wall set back from the shoreline for the purpose of holding back the sea.

DELINEATION

The limit of WALL is the edge of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If WALL is associated with a correctional institution or historic military fort,
Or
If WALL is around a tank for fire protection,
Or
If WALL is a seawall,
Or
If WALL is associated with a 2-dimensional LOCK CHAMBER and WALL has water on both sides,
Or
If WALL extends into a body of water and is not a pier/breakwater/jetty or seawall,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If WALL separates two bodies of water,
Then capture in the Hydrography theme.

If WALL is not associated with a hydrographic feature,
Then capture in the Built-Up theme.

If DAM/WEIR, NONEARTHEN SHORE, PIER/BREAKWATER/JETTY, or SPILLWAY is
captured,
Then do not capture WALL.

If the edge of LOCK CHAMBER separates water from land,
Then do not capture WALL. See NONEARTHEN SHORE.

Graphic

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain only those WALLS associated with LOCK CHAMBER.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

Inclusion Conditions

All required

Generalization

PRODUCT GENERATION at 1:24,000 scale

Symbolization

Symbol#:   WALL_L001
Dimension: 1

WALL

Attribute	Value	Symbol Specs	Type Specs
N/A	N/A	Line Color: Black Lineweight: 0.007"	**Label:** Color: Black Style: UI CAPS Size: 5-7 Spacing: 0

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

    Occoquan, VA
    Jersey City, NJ
    Joliet, IL
    Kailua, HI
    Leavenworth, KS
    San Fransisco North, CA
    West of Snowstorm Mountain, CA

WELL - A pit or hole dug or bored into the earth for the extraction of oil, water, other fluids, or gases.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Product	Principal commodity involved
Unspecified	The value is not known and is not required
Production Status	State or condition
Non-producing	Not yielding a product
Producing	Yielding a product

DELINEATION

The limit of WELL is the extent of the hole in the ground.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If WELL is a producing oil or gas well outside of a developed WELL FIELD,
Or
If WELL is an oil or gas well outside of a developed WELL FIELD; and is a drill hole, exploratory well or test well; and is landmark,
Or
If WELL is an oil or gas well within a developed WELL FIELD and does not have the product of WELL FIELD,
Then capture.

Attribute Information

If Production Status = Non-producing,
Then Product = Unspecified.

If WELL produces oil or gas,
Then Product = Unspecified.

Source Interpretation Guidelines

All

If WELL is within an area of closely spaced wells,

Then first capture named WELLS, then those that are on the perimeter of the area, then those that are most prominent, then finally capture a representative pattern of WELLS internal to the area. Capture as many as can be shown in correct position. The symbols must not overlap.

IIf WELL is associated with WINDMILL,
Then do not capture WELL. See WINDMILL.

Irrigation wells are often enclosed in a structure and are usually found in wide areas along or at the end of field roads. They may be evidenced by a wide wet collection area leading into a linear channel.

If WELL produces water or heat,
Then collect in the theme Hydrography.

If WELL produces a product other than water or heat,
Then collect in the theme Built-up.

Do not capture dry wells.

Graphic

If WELL is identified as an "Exploratory well" or "Test well" on the graphic,
Then Production Status = Non-producing and Product = Unspecified.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale
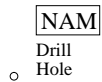
    Inclusion Conditions

        All required

    Generalization

PRODUCT GENERATION at 1:24,000 scale

    Symbolization

Symbol#:   WELL_P001
Dimension: 0

NAM

Drill
Hole

o

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003" Diameter: 0.04"	**Label and Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Production Status	Non-producing		
Product	Unspecified	Symbol Orientation Origin: center of symbol	

NOTE: This symbol applies only to the theme Built-up.

Symbol#:   WELL_P002
Dimension: 0

NAM
o Well

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Black Lineweight: 0.003"	**Label and Name:** Color: Black Style: UL C/lc
Production Status	Producing	Diameter: 0.04"	Size: 7 Spacing: 0
Product	Unspecified	Symbol Orientation Origin: center of symbol	

NOTE: This symbol applies only to the theme Built-up.

Symbol#:   WELL_P003
Dimension: 0

o
NAM
Geothermal

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Circle Color: Blue Lineweight: 0.004"	**Label and Name:** Color: Blue Style: UL C/lc
Production Status	Producing	Diameter: 0.04"	Size: 7 Spacing: 0
Product	Heat	Symbol Orientation Origin: center of symbol	

NOTE: This symbol applies only to the theme Hydrography.

Symbol#:   WELL_P004
Dimension: 0

NAM

Flowing
Well

o

Attribute	Value	Symbol Specs	Type Specs
Flow Status	Flowing	Circle Color: Blue	**Label and Name:** Color: Blue
Name	(Alphanumeric) or Unspecified	Lineweight: 0.004" Diameter: 0.04"	Style: UL C/lc Size: 7 Spacing: 0
Production Status	Producing	Symbol Orientation Origin: center of	
Product	Water	symbol	

NOTE: This symbol applies only to the theme Hydrography.

Symbol#:   WELL_P005
Dimension: 0

NAM

Well

o   (WAC)
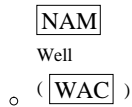
Attribute	Value	Symbol Specs	Type Specs
Flow Status	Unspecified	Circle Color: Blue	**Label, Name, and Water Characteristics:**
Name	(Alphanumeric) or Unspecified	Lineweight: 0.004" Diameter: 0.04"	Color: Blue Style: UL C/lc Size: 7
Production Status	Producing	Symbol Orientation Origin: center of	Spacing: 0
Product	Water	symbol	
Water Characteristics	Alkaline, Hot, Sulphur, or Unspecified		

NOTE: This symbol applies only to the theme Hydrography.

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If WELL symbol_coalesces WELL,

Then suppress_symbol.

If WELL coincides a horizontal control station,
Then suppress_symbol (retain label if appropriate).

If WELL symbol_coalesces a horizontal control station,
Then symbol_displace.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

Niland, CA
Oil City, PA
Peak Mountain, CA
Pikes Stockade, CO
The Geysers, CA

WELL FIELD - An area where petroleum and/or natural gas is or was removed from the earth.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of WELL FIELD is defined by the perimeter wells.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional			
2-dimensional	> 0		

Special Conditions:

DATA EXTRACTION

<u>Capture Conditions</u>

If WELL FIELD is named, and is identified in oil and gas company publications,
Then capture.

<u>Attribute Information</u>

<u>Source Interpretation Guidelines</u>

All

Graphic

Named WELL FIELDS that are contiguous are delineated using the type placement as a guide for separating fields.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#:   WELL_FIELD_A001
Dimension: 2

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	N/A	**Name:** Color: Black Style: UL CAPS or C/lc Size: 7-10 Spacing: 0-5

Symbol#:   WELL_FIELD_A002
Dimension: 2

Well Field

Attribute	Value	Symbol Specs	Type Specs
Name	Unspecified	N/A	**Label:** Color: Black Style: UL C/lc Size: 7-10 Spacing: 0-5

<u>Conflict Detection and Resolution</u>

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

<u>Names and Labels</u>

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

TBD

Placement

TBD

EXAMPLES

WHARF - A structure with its longest axis built parallel to the shoreline to which vessels may be berthed on one side only.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks

DELINEATION

The limit of WHARF is the line of contact between the water and the area used for loading and unloading vessels.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional			
1-dimensional		> 0	
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If WHARF is named,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

The line of contact between a body of water and the land is captured as SHORELINE or
NONEARTHEN SHORE. Other structures such as DAM/WEIR, PIER/BREAKWATER/JETTY, or
WHARF may coincide with the SHORELINE or NONEARTHEN SHORE, in which case both
features are captured.

If WHARF does not meet capture conditions,
Then see NONEARTHEN SHORE.

Graphic

Revision - General

Revision - Standard

Revision - Limited

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale

    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: WHARF_L001
Dimension: 1

NAM

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric)	<u>Line</u> Color: Black Lineweight: 0.003"	**Name:** Color: Black Style: UL C/lc Size: 7 Spacing: 0

    <u>Conflict Detection and Resolution</u>

        Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

    <u>Names and Labels</u>

        Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

        Selection

            TBD

        Placement

            TBD

EXAMPLES

Apra Harbor, GU
Mobile, AL

WINDMILL - A mill or other machine that runs on the energy generated by a wheel of adjustable blades or flats rotated by the wind.

ATTRIBUTE/ATTRIBUTE VALUE LIST

Name	Proper name, specific term, or expression
(Alphanumeric)	Length Value: 99
Unspecified	The value is not known and is not required
Photorevision Category	Whether or not a feature was added or modified as part of a photorevision assignment
Not Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that included field checks, if required
Photorevised	Feature was compiled from aerial photographs and other sources as part of a revision assignment that did not include field checks
Windmill Type	Function or purpose
Generator	For producing electricity
Unspecified	The value is not known and is not required

DELINEATION

The limit of a WINDMILL is the extent of the structure.

REPRESENTATION RULES

Feature Object Representation, Composition, and Relationship Table

RELATIONSHIPS	INSTANCES (CARDINALITY)	WITH OBJECT

Representation Conditions

KIND OF FEATURE OBJECT	AREA	SHORTEST	LONGEST
0-dimensional		> 0	
1-dimensional			
2-dimensional			

Special Conditions:

DATA EXTRACTION

Capture Conditions

If WINDMILL is landmark,
Or
If WINDMILL is ≥ 0.25" from BUILDING,
Then capture.

Attribute Information

Source Interpretation Guidelines

All

If WINDMILL is in an area of closely spaced windmills,
Then first capture named WINDMILLS, then those that are on the perimeter of the area, then finally
capture a representative pattern of WINDMILLS internal to the area. WINDMILLS must be captured
in their correct position, and so that the symbols do not overlap.

Graphic

An elevation on WINDMILL is captured as SPOT ELEVATION.

WINDMILL is captured at the crossing of the arms or, on older symbology, at the center of the circle.

Revision - General

Revision - Standard

Revision - Limited

Do not revise. Retain existing features.

DATA EXTRACTION OR PRODUCT GENERATION at 1:24,000 scale
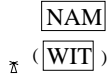
    <u>Inclusion Conditions</u>

        All required

    <u>Generalization</u>

PRODUCT GENERATION at 1:24,000 scale

    <u>Symbolization</u>

Symbol#: WINDMILL_P001
Dimension: 0

NAM

(WIT)

Attribute	Value	Symbol Specs	Type Specs
Name	(Alphanumeric) or Unspecified	Cross Color: Black Lineweight: 0.003" Positioning: lines bisect each other Line 1 Length: 0.045" Line 2 Length: 0.045" Intersect Angle: 70˚	**Name and Windmill Type:** Color: Black Style: UL C/lc Size: 7 Spacing: 0
Windmill Type	Generator or Unspecified		

Triangle
Color: Black
Lineweight: 0.003"
Positioning: place 30°
angle apex of triangle
at center of
110-degree angle of
cross
Angle 1: 75˚
Angle 2: 30˚
Angle 3: 75˚
Height: 0.05"

Symbol Orientation
Orientation: side
between 75-degree
angles of triangle is
placed parallel to
south projection line
Origin: center of
cross (apex of
triangle)

Conflict Detection and Resolution

Conflict detection and resolution rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

If WINDMILL symbol_coalesces WINDMILL,
Then suppress_symbol.

If WINDMILL coincides a horizontal control station,
Then suppress_symbol (retain label if appropriate).

If WINDMILL symbol_coalesces a horizontal control station,
Then symbol_displace.

Names and Labels

Selection and placement rules are being developed. Additions and modifications to the rule set will continue until all features are completed.

Selection

If Windmill Type = Generator and "Generator" does not appear in Name,
Then label "(Generator)" beneath Name,
Else, delete generator label.

If Windmill Type = Generator and WINDMILL is not named,
Then label "Generator" (delete parentheses)

If Windmill Type ≠ Generator,
Then show Name only (if Named) and delete generator type and parenthesis.

Placement

TBD

EXAMPLES

Capeneys Lake, MT
Highlands Ranch, CO
Humboldt, AZ