26—HYDROLOGIC FEATURES

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
26.1—Hydrography and hydrologic feature indentification symbology				
26.1.1	Alkali flat	Alkali Flat	*lineweight .175 mm*; *H-7*; Alkali Flat; *dash 1.75 mm; space .5 mm*; *line color 100% cyan*	
26.1.2	Large, dammed reservoir		*lineweight .3 mm*; *lineweight .2 mm; line color 100% cyan*; *fill color 20% cyan*	
26.1.3	Small reservoir		*fill color 20% cyan*; *lineweight .15 mm*	
26.1.4	Covered reservoir		*lineweight .15 mm*; *pattern 214-K (@ 45°)*	
26.1.5	Glacier or permanent snowfield—Showing glacial trend		*lineweight .175 mm; dash 1.75 mm; space .5 mm*; *pattern 502-C (rotated perpendicular to glacial trend)*; *line color 100% cyan*	
26.1.6	Salt evaporator	Salt Evaporator	*H-7*; Salt Evaporator; *all lineweights .175 mm*; *line color 100% cyan*	
26.1.7	Inundation area		*lineweight .175 mm; dash 1.75 mm; space .5 mm*; *pattern 231-C (at 90°)*; *line color 100% cyan*	
26.1.8	Fish hatchery or farm	Fish Hatchery	*lineweight .15 mm*; *H-7*; Fish Hatchery; *fill color 20% cyan*	
26.1.9	Industrial water impoundment	Industrial Water Impoundment	*H-7*; Industrial Water Impoundment; *lineweight .15 mm*; *fill color 20% cyan*	
26.1.10	Area to be submerged		*lineweights .2 mm in 100% cyan*; *lineweight .3 mm in 100% black*; *pattern 201-C (at 135°)*; *fill color 20% cyan*	
26.1.11	Sewage disposal or filtration pond	Sewage Disposal	*H-7*; Sewage Disposal; *lineweights .15 mm*; *pattern 201-C (at 135°)*	
26.1.12	Tailings pond	Tailings Pond	*H-7*; Tailings Pond; *pattern 422-B*; *line color 100% brown*; *lineweight .175 mm; dash 2.0 mm; space 0.5 mm*	
26.1.13	Marsh, wetland, swamp, or bog		*pattern 420-C*	
26.1.14	Mangrove area		*pattern 424-C*	
26.1.15	Rice field		*pattern 423-C*	
26.1.16	Cranberry bog	Cranberry Bog	*lineweight .175 mm*; *line color 100% cyan*; *H-7*; Cranberry Bog; *pattern 425-C*	
26.1.17	Tidal, mud, sand, or gravel flats	Tidal Flat	*lineweight .15 mm*; *dash 1.75 mm; space .5 mm*; *H-7*; Tidal Flat; *pattern 421-K over fill color 20% cyan*	
26.1.18	Coastline of bay, estuary, gulf, ocean, or sea		*lineweight .2 mm*; *fill color 20% cyan*; *line color 100% cyan*	
26.1.19	Shoal	Shoal	*lineweight .2 mm*; *dash .2 mm; space .425 mm*; *H-7*; Shoal	
26.1.20	Soda evaporator	Soda Evaporator	*H-7*; Soda Evaporator; *all lineweights .175 mm*; *line color 100% cyan*	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
26.1—Hydrography and hydrologic feature indentification symbology (continued)				
26.1.21	Shoreline		*lineweight .2 mm* *line color 100% cyan*	
26.1.22	Manmade shoreline		*all line colors 100% cyan* *lineweight .15 mm; dash 1.75 mm; space .5 mm* *lineweight .2 mm*	
26.1.23	Indefinite shoreline		*lineweight .15 mm* *line color 100% cyan* *dash 1.75 mm; space .5 mm*	
26.1.24	Apparent limit of water body	Apparent Limit	*H-7* → Apparent Limit *lineweight .15 mm; line color 100% cyan*	
26.1.25	Outline of a Carolina bay		*lineweight .2 mm* *line color 100% cyan* *dash 1.75 mm; space .5 mm*	
26.1.26	Danger curve	Danger Curve	*lineweight .15 mm* *H-7* Danger Curve *dash .375 mm; space .375 mm*	
26.1.27	Spring, as shown on general-purpose or smaller scale maps	Spring	*lineweight .15 mm* *draft as shown* *H-7* → Spring *line color 100% cyan* *circle diameter 1.0 mm*	Rotate tail to point in downhill direction of flow.
26.1.28	Nonflowing well, as shown on general-purpose or smaller scale maps	Nonflowing Well	*lineweight .15 mm* *H-7* Nonflowing Well *line color 100% cyan* *circle diameter 1.0 mm*	
26.1.29	Flowing well, as shown on general-purpose or smaller scale maps	Flowing Well	*lineweight .15 mm* *H-7* Flowing Well *line color 100% cyan* *circle diameter 1.0 mm*	
26.1.30	Riser	Riser	*H-7* Riser *.75 mm*	
26.1.31	Geyser, as shown on general-purpose or smaller scale maps	Geyser	*lineweight .15 mm* *H-7* Geyser *line color 100% cyan* *circle diameter 1.0 mm*	
26.1.32	Windmill	Windmill	*all lineweights .15 mm* *H-7* Windmill *windmill arm angles 110°, 70°* *1.125 mm* *1.25 mm* *.675 mm*	
26.1.33	Rapids on single-line drainage	*Rapids*	*all lineweights .2 mm* *TBI-7* *Rapids* *all line colors 100% cyan* *hachure height 1.25 mm; spacing .5 mm*	
26.1.34	Rapids on double-line drainage	*Rapids*	*all line colors 100% cyan* *hachure lineweight .125 mm; height .825 mm; spacing .425 mm* *TBI-7* *Rapids* *lineweight .2 mm*	
26.1.35	Falls on single-line drainage	*Falls*	*all line colors 100% cyan* *all lineweights .2 mm* *hachure height 1.25 mm* *TBI-7* *Falls*	
26.1.36	Falls on double-line drainage	*Falls*	*TBI-7* *all line colors 100% cyan* *Falls* *hachure lineweight .125 mm; height .825 mm; spacing .425 mm* *lineweight .2 mm*	
26.1.37	Gravel pit or quarry filled with water		*circle diameter 3.0 mm* *arrow length 2.5 mm; arrowhead .75 mm x .75 mm x .75 mm* *all lineweights .15 mm*	
26.1.38	Gaging station, as shown on general-purpose or smaller scale maps	Gaging Station	*lineweight .15 mm* *H-7* Gaging Station *circle diameter 1.25 mm*	
26.1.39	Pumping station	Pumping Station	*H-7* Pumping Station *.875 mm*	
26.1.40	Water intake		*lineweight .2 mm* *circle diameter 1.75 mm* *dot diameter .375 mm*	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
	26.1—Hydrography and hydrologic feature indentification symbology (continued)			
26.1.41	Dam or weir		spacing may vary; lineweight .3 mm; color fill 20% cyan; lineweights .2 mm; line colors 100% cyan	
26.1.42	Canal lock or sluice gate	Lock	lineweight .2 mm; line color 100% cyan; Lock; H-7; 45°; wing lineweight .175 mm; minimum length .575 mm	
26.1.43	Spillway	SPILLWAY	HI-5; SPILLWAY; lineweight .175 mm; dash 1.75 mm; space .5 mm; line and text color 100% cyan	
26.1.44	Gate (flood, tidal, head, or check)	Gate	lineweight .2 mm; line color 100% cyan; Gate; H-7; bar lineweight .25 mm; length 1.5 mm	
26.1.45	Rock	Rock *	H-7; 60°; Rock *; lineweight .2 mm; 1.25 mm	
26.1.46	Crevasse		lineweight .15 mm; length and spacing may vary	
26.1.47	Stream—Perennial		lineweight .2 mm; line color 100% cyan	
26.1.48	Stream—Intermittent, type 1		lineweight .15 mm; line color 100% cyan	
26.1.49	Stream—Intermittent, type 2		lineweight .2 mm; dash length 4.0 mm; line color 100% cyan; dot diameter .3 mm; spacing .625 mm	
26.1.50	Braided stream—Perennial		lineweight .2 mm; line color 100% cyan	
26.1.51	Braided stream—Intermittent		lineweight .15 mm; line color 100% cyan	
26.1.52	Ditch—Perennial	DITCH	lineweight .2 mm; DITCH; HI-5; line and text color 100% cyan	
26.1.53	Ditch—Intermittent	DITCH	lineweight .15 mm; DITCH; HI-5; line and text color 100% cyan	
26.1.54	Aqueduct—Perennial		lineweight .2 mm; fill color 20% cyan; spacing may vary; line color 100% cyan	
26.1.55	Aqueduct—Intermittent		lineweight .15 mm; fill color 20% cyan; spacing may vary; line color 100% cyan	
26.1.56	Flume—Perennial	FLUME	all lineweights .2 mm; HI-5; wing length .575 mm; angle 45°; FLUME; line and text color 100% cyan; dash 1.25 mm; space .5 mm	
26.1.57	Flume—Intermittent	FLUME	all lineweights .15 mm; HI-5; wing length .575 mm; angle 45°; FLUME; line and text color 100% cyan; dash 1.25 mm; space .5 mm	
26.1.58	Penstock—Perennial	PENSTOCK	all lineweights .2 mm; HI-5; wing length .575 mm; angle 45°; PENSTOCK; line and text color 100% cyan; dash 1.25 mm; space .5 mm	
26.1.59	Penstock—Intermittent	PENSTOCK	all lineweights .15 mm; HI-5; wing length .575 mm; angle 45°; PENSTOCK; line and text color 100% cyan; dash 1.25 mm; space .5 mm	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
	26.1—Hydrography and hydrologic feature indentification symbology (continued)			
26.1.60	Siphon—Perennial	SIPHON	*lineweight .2 mm* *dash 2.5 mm;* *space .5 mm* SIPHON *HI-5* *line and text color 100% cyan*	
26.1.61	Siphon—Intermittent	SIPHON	*lineweight .15 mm* *dash 2.5 mm;* *space .5 mm* SIPHON *HI-5* *line and text color 100% cyan*	
26.1.62	Channel in open water—Perennial	CHANNEL	*lineweight .2 mm;* *dash 2.5 mm;* *space .5 mm* CHANNEL *HI-5* *spacing may vary* *line and text color 100% cyan; fill color 20% cyan*	
26.1.63	Channel in open water—Intermittent	CHANNEL	*lineweight .15 mm;* *dash 2.5 mm;* *space .5 mm* CHANNEL *HI-5* *spacing may vary* *line and text color 100% cyan; fill color 20% cyan*	
26.1.64	Wash or ephemeral drain		*pattern 421-B*	
26.1.65	Lake or pond		*lineweight .2 mm* *line color 100% cyan* *fill color 20% cyan*	
26.1.66	Coral reef		*lineweight (coastline) .2 mm in 100% cyan* *lineweight (coral reef) .125 mm* *fill color 20% cyan*	
26.1.67	Sand in open water, type 1	Sand	*lineweight .175 mm* *dash .175 mm;* *space .375 mm* Sand *H-7* *fill color 20% cyan*	
26.1.68	Sand in open water, type 2	Sand	*pattern 421-K* Sand *H-7* *fill color 20% cyan*	
26.1.69	Spoil area in open water	SPOIL AREA	*lineweight .175 mm* *fill color 20% cyan* SPOIL AREA *H-7* *dash 2.5 mm;* *space .5 mm*	
26.1.70	Right bank	*Right bank*	*all lineweights .2 mm* *Right bank* *Left bank* *line color 100% cyan* *fill color 20% cyan* *arrow length 7.0 mm;* *arrowhead angle 25°*	
26.1.71	Left bank	*Left bank*		
26.1.72	Submerged or sunken hydrologic feature	SUBMERGED JETTY	*lineweight .2 mm* *HI-5* SUBMERGED JETTY *line and text color 100% cyan* *dash 2.0 mm; space 1.0 mm*	
26.1.73	Dry hydrologic feature		*lineweight .15 mm* *dash 2.0 mm;* *space .5 mm* *line color 100% cyan* *pattern 119-C*	
26.1.74	Salt	Salt	*H-7* Salt	
26.1.75	Mineral or hot spring (such as sulfur or alkali)	Sulfur	*H-7* Sulfur	
26.1.76	Water surface elevation	*ELEVATION 127*	*HI-7* *ELEVATION 127*	
26.1.77	River mile	MILE 460	*lineweight .175 mm* MILE 460 *H-8* *2.0 mm*	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
	26.2—Water wells			
26.2.1	Water well—Type of use unspecified	○	*lineweight .15 mm* ○ *diameter 1.75 mm*	Circle indicates specific type of water-supply well; may be used alone or in combination with various ornamentations shown below. May also be drawn in cyan or other colors.
26.2.2	Well—Used for domestic-water supply	●	● *diameter 1.75 mm*	
26.2.3	Well—Used for stock-water supply	○	*lineweight .2 mm* ○ *diameter 1.75 mm*	
26.2.4	Well—Used for irrigation-water supply	◎	*outer circle diameter 2.0 mm; lineweight .2 mm* ◎ *inner circle diameter 1.125 mm; lineweight .15 mm*	
26.2.5	Well—Used for industrial-water supply	◉	*circle diameter 2.0 mm; lineweight .2 mm* ◉ *dot diameter 1.125 mm*	
26.2.6	Well—Used for public-water supply	○	*lineweight .375 mm* ○ *diameter 2.0 mm*	
26.2.7	Water well—Unused	⊕	*circle diameter 1.75 mm; lineweight .15 mm* ⊕ *3.75 mm* *bar lineweight .3 mm*	
26.2.8	Artesian well	↑○	*2.0 mm* *20°* *1.25 mm* *arrow lineweight .15 mm* *circle diameter 1.75 mm; lineweight .2 mm*	Although only shown with symbol used for stock-water supply well, ornamentation may be added to any type of water-supply well symbol. May also be drawn in cyan or other colors.
26.2.9	Nonflowing artesian well	T○	*radius .3125 mm* *1.375 mm* *lineweight .175 mm* *circle diameter 1.75 mm; lineweight .2 mm*	
26.2.10	Water recharge or waste-injection well	↓○	*2.0 mm* *20°* *1.25 mm* *arrow lineweight .15 mm* *circle diameter 1.75 mm; lineweight .2 mm*	
26.2.11	Observation water well	⊘	*circle diameter 1.75 mm; lineweight .2 mm* *3.75 mm* *45°* *bar lineweight .3 mm*	
26.2.12	Observation water well—Equipped with recorder	⊘R	R *H-6*	
26.2.13	Abandoned water well	∅	*all lineweights .2 mm* *circle diameter 1.75 mm* *45°* *3.75 mm*	
26.2.14	Destroyed water well	⊗	*all lineweights .2 mm* *3.75 mm* *circle diameter 1.75 mm* *45°* *3.75 mm*	
26.2.15	Test hole for water	⦶	*center bar lineweights .15 mm* *.6 mm* *circle diameter 1.75 mm; lineweight .2 mm*	
26.2.16	Water well—Capped	T○	*1.25 mm* *all lineweights .2 mm* *1.0 mm* *circle diameter 1.75 mm*	
26.2.17	Water well—Shut-in	⊢○⊣	*all lineweights .2 mm* ⊢○⊣	
26.2.18	Dry hole—Water exploration	-○-	*all lineweights .2 mm* *1.0 mm* *circle diameter 1.75 mm*	
26.2.19	Well—Used for collection of water data	-○-	*all lineweights .2 mm* *1.0 mm* *circle diameter 1.75 mm*	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
	26.3—Water gaging stations			
26.3.1	Gaging station—Type of measurement unspecified	△	60° 2.375 mm lineweight .15 mm	Triangle indicates specific type of gaging station; may be used alone or in combination with various ornamentations shown below. May be combined with symbols for quality-of-water sites; place triangle above and adjoining quality-of-water site symbol. Usually reserved for use on larger scale, special-purpose maps.
26.3.2	Gaging station—Continuous-record	▲	▲	
26.3.3	Gaging station—Partial-record	▲	lineweight .175 mm 1.2 mm	
26.3.4	Measurement station without a gage	△	lineweight .2 mm △	
26.3.5	Discontinued gaging station		triangle lineweight .2 mm 3.75 mm bar lineweight .3 mm	
26.3.6	Gaging station—Equipped with a telephone or radio		1.5 mm 1.25 mm 60° .875 mm "antenna" lineweight .175 mm	Although only shown with symbol used for continuous-record gaging station, ornamentation may be added to any type of gaging station symbol.
26.3.7	Peak-flow measurement station		25° 2.0 mm 1.25 mm arrow lineweight .15 mm	
26.3.8	Low-flow measurement station		25° 2.0 mm 1.25 mm arrow lineweight .15 mm	
26.3.9	Stage-measurement station		3.0 mm 1.125 mm crossbar lineweight .2 mm	
	26.4—Quality-of-water sites			
26.4.1	Quality-of-water site—Type of measurement unspecified	▽	2.375 mm lineweight .15 mm 60°	Inverted triangle indicates specific type of quality-of-water site; may be used alone or in combination with various ornamentations shown below. May be combined with symbols for gaging stations; place inverted triangle below and adjoining gaging station symbol.
26.4.2	Active quality-of-water site	▼	▼	
26.4.3	Active quality-of-water site—Equipped with a monitor	▽	lineweight .375 mm ▽	
26.4.4	Inactive quality-of-water site		triangle lineweight .2 mm 3.75 mm bar lineweight .3 mm	
26.4.5	Quality-of-water site—Chemical measurement		1.25 mm bar lineweight .25 mm	Although only shown with symbol used for active quality-of-water site, ornamentation may be added to any type of quality-of-water site symbol.
26.4.6	Quality-of-water site—Temperature measurement		1.25 mm bar lineweight .25 mm	
26.4.7	Quality-of-water site—Biological measurement		1.25 mm bar lineweight .25 mm	
26.4.8	Quality-of-water site—Sediment measurement		1.25 mm bar lineweight .25 mm	

26—HYDROLOGIC FEATURES (continued)

REF NO	DESCRIPTION	SYMBOL	CARTOGRAPHIC SPECIFICATIONS	NOTES ON USAGE
	26.5—Springs			
26.5.1	Spring—Type of use unspecified		all lineweights .15 mm; radius .325 mm; circle diameter 1.75 mm; .625 mm; 2.0 mm	Circle and tail indicate specific type of spring; may be used alone or in combination with various ornamentations shown below. Rotate tail to point in downhill direction of flow. May also be drawn in cyan or other colors.
26.5.2	Spring—Used for collection of water-quality data		all lineweights .2 mm; dot diameter .375 mm	
26.5.3	Spring—Used for domestic-water supply		dot diameter 1.75 mm; lineweight .2 mm	
26.5.4	Spring—Used for irrigation-water supply		outer circle diameter 2.0 mm; lineweight .2 mm; lineweight .2 mm; inner circle diameter 1.125 mm; lineweight .15 mm	
26.5.5	Spring—Used for industrial-water supply		all lineweights .2 mm; circle diameter 2.0 mm; dot diameter 2.0 mm	
26.5.6	Spring—Used for public-water supply		circle diameter 2.0 mm; lineweight .375 mm; lineweight .2 mm	
26.5.7	Unused spring		circle diameter 1.75 mm; spring symbol lineweight .2 mm; 3.75 mm; bar lineweight .3 mm	
26.5.8	Thermal spring	T	H-6; T	Although only shown with symbol used for irrigation-water supply spring, ornamentation may be added to any type of spring symbol.
26.5.9	Mineral spring	M	H-6; M	
26.5.10	Extinct spring		3.75 mm; lineweight .2 mm; 45°	
	26.6—Miscellaneous hydrologic symbols			
26.6.1	Surface-water basin boundary		lineweight .6 mm; dash length 7.5 mm; dot diameter .625 mm; spacing .5 mm	May also be drawn in cyan or other colors.
26.6.2	Surface-water subbasin boundary		lineweight .425 mm; dash length 5.0 mm; dot diameter .45 mm; spacing .5 mm	
26.6.3	Ground-water divide—Certain		dot diameter .675 mm; spacing .575 mm	
26.6.4	Ground-water divide—Approximately located		circle lineweight .15 mm; diameter .675 mm; spacing .575 mm	
26.6.5	Ground-water barrier—Certain		lineweight .175 mm; dot diameter .675 mm; spacing .575 mm	
26.6.6	Ground-water barrier—Approximately located		lineweight .175 mm; circle lineweight .15 mm; diameter .675 mm; spacing .575 mm	
26.6.7	Infiltration gallery		all lineweights .15 mm; 1.75 mm; 1.125 mm; .625 mm	
26.6.8	Direction of ground-water flow, type 1—Certain		5.75 mm; 1.125 mm; 30°; 2.125 mm	Use open or dashed arrows when more than one type or generation of ground-water flow is shown. May also be drawn in cyan or other colors.
26.6.9	Direction of ground-water flow, type 2—Certain		lineweight .15 mm	
26.6.10	Direction of ground-water flow, type 1—Approximate		6.75 mm; all lineweights .25 mm; 25°; 1.5 mm; 2.75 mm	
26.6.11	Direction of ground-water flow, type 2—Approximate		dash 1.5 mm; space .5 mm	