











TOPOGRAPHIC CONTOURS






(land elevation)

Index number written on line	
Intermediate between Index lines	
Supplementary added to flat areas to show measurements	
Depression such as volcano top or crater (little dashes are called <i>hachures</i>)	
Cut; Fill roadway leveling terrain	

VEGETATION

Woodland trees at least 6feet tall	
Scrub low brush	
Orchard planted vegetation	
Vineyard cultivated vines	
Mangrove dense, tropical trees	

SURFACE FEATURES

Levee	
Sand or mud area, dunes or shifting sand	
Intricate surface area	
Gravel beach or glacial moraine	
Tailings pond	

MINES AND CAVES

Quarry or open pit mine	
Gravel, sand, clay, or borrow pit	
Mine tunnel or cave entrance	
Prospect; mine shaft	
Mine dump	
Mine tailings	

GLACIERS AND PERMANENT SNOWFIELDS

Limit blue denotes coverage	
Form lines Show shape, not elevation	

BUILDINGS AND RELATED FEATURES

Building	
School; church	
Built-up Area	
Racetrack	
Airport	
Landing strip	
Well (other than water); windmill	
Tanks	

Covered reservoir	
Gaging station	
Landmark object (feature as labeled)	
Campground; picnic area	
Cemetery: small; large	

ROADS AND RELATED FEATURES

Primary highway	
Secondary highway	
Light duty road	
Unimproved road	
Trail	
Dual highway	
Dual highway with median strip	
Road under construction	
Underpass; overpass	
Bridge	
Drawbridge	
Tunnel	

RAILROADS AND RELATED FEATURES

Standard gauge single track; station	
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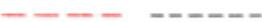

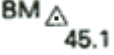






Standard gauge multiple track	
Abandoned	
Under construction	
Narrow gauge single track	
Narrow gauge multiple track	
Railroad in street	
Juxtaposition	
Roundhouse and turntable	

TRANSMISSION LINES AND PIPELINES

Power transmission line: pole; tower	
Telephone line	
Aboveground oil or gas pipeline	
Underground oil or gas pipeline	









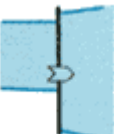



BOUNDARIES







National	
State or territorial	
County	
Civil township	
Incorporated city	
Park, reservation, or monument	

Small Park	
LAND SURVEY SYSTEMS	
<i>U.S. Public Land Survey System</i>	
Township or range line	
Section Line	
Found section corner; found closing corner	
Witness corner; meander corner	
<i>Other land surveys</i>	
Township or range line	
Section line	
Land grant or mining claim; monument	
Fence line	
CONTROL DATA AND MONUMENTS	
<i>Horizontal control</i>	
Third order or better, permanent mark	
With third order or better elevation	
Check spot elevation	
Coincident with section corner	
Unmonumented*	
<i>Vertical control</i>	
Third order or better, with tablet	
Third order or better, recoverable mark	
Bench mark found at section corner	







Spot elevation	× 5.3
Boundary monument	
With tablet	BM □ 21.6
Without tablet	□ 171.3
With number and elevation	67 □ 301.1
U.S. mineral or location monument	▲

RIVERS, LAKES, AND CANALS

Intermittent stream	
Intermittent river	
Disappearing stream	
Perennial stream	
Perennial river	
Small falls; small rapids	
Large falls; large rapids	
Masonry dam	
Dam with rock	
Dam carrying road	
Perennial lake; Intermittent lake or pond	
Dry lake	

Narrow wash	
Wide wash	
Canal, flume, or aquaduct with lock	
Elevated aquaduct, flume or conduit	
Aquaduct tunnel	
Well or spring; spring or seep	

SUBMERGED AREAS AND BOGS

Marsh or swamp	
Submerged marsh or swamp	
Wooded marsh or swamp	
Submerged wooded marsh or swamp	
Rice field	
Land subject to inundation	


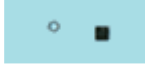



MARINE SHORELINE

Approximate mean high water	
Indefinite or unsurveyed	

BATHYMETRIC FEATURES

(water depth)

Area exposed at mean low tide; sounding datum	
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Channel	
Offshore oil or gas: well; platform	
Sunken rock	
BATHYMETRIC CONTOURS	
Index	
Intermediate	
Supplementary	