

ANNEX I

SUMMARY OF CODES USED IN GEODETIC SURVEY POINT DESCRIPTIONS

This annex contains lists of codes that are used in the preparation of station descriptions and recovery notes pertaining to geodetic control points. The use of these codes is explained in Chapter 3, entitled GEODETIC SURVEY POINT DESCRIPTIVE (GEOD DESC) DATA.

DR CODE - used to identify the descriptive data by type.

ENTRY	DEFINITION
D	An original description of a newly set mark.
R	Everything else (includes recovered, not recovered, destroyed, and the first report to NGS of a pre-existing mark not in the NGS data base).

RECOVERY TYPE CODE (optional) - used to classify recovery descriptions relative to existing information residing in the agency data base.

ENTRY	DEFINITION
F	A full recovery description of a survey point which you think is not included in the NGS Data Base.
M	A recovery description which does not contain a complete textual description of the mark, but <b>may</b> contain updates or modifications to the most current description. This is used when a mark is <b>destroyed or not recovered</b> , or when the text of the previous description of this mark in the NGS data base requires no update (i.e., the text is in accord with current practice, and the situation at the mark has not changed).
T	A complete re-description of a mark which is included in the NGS data base.

SPECIAL APPLICATIONS CODE - used to represent certain specialized information about the control point.

ENTRY	DEFINITION
F	Fault monitoring site
N	Site not suitable for receiving satellite signals
O	Other (see descriptive text)
P	Site determined suitable for receiving satellite signals in connection with geodetic surveys
T	Tidal station

SETTING CODE - used to complement all MARKER TYPE CODES **except** Landmark stations.

SHALLOW SETTINGS (LESS THAN 10 FT DEEP)

DEFAULT STABILITY CODE

00 - setting not listed - see description	D
01 - unspecified shallow	D
02 - driven into the ground	D
03 - imbedded in the ground	D
04 - surrounded by a mass of concrete	D
05 - set into the top of an irregular mass of concrete	D
07 - set into the top of a round concrete monument	C
08 - set into the top of a square concrete monument	C
<b>set into the top of a prefabricated concrete post ...</b>	
09 - ... imbedded in the ground	D
10 - ... surrounded by a mass of concrete	D
11 - ... imbedded in a mass of concrete	C
<b>set into a prefabricated concrete block ...</b>	
12 - ... imbedded in the ground	D
13 - ... surrounded by a mass of concrete	D
14 - ... imbedded in a mass of concrete	C
15 - a metal rod driven into the ground	D
16 - a metal rod with base plate buried/screwed into the ground	C
<b>set into the top of a metal pipe ...</b>	
17 - ... driven into the ground	D
18 - ... imbedded in the ground	D
19 - ... surrounded by a mass of concrete	D
20 - ... imbedded in a mass of concrete	C
<b>set in concrete at the center of a clay tile pipe ...</b>	
21 - ... fastened to a wooden pile driven into marsh	D
22 - ... imbedded in the ground	D
23 - ... surrounded by a mass of concrete	D
24 - ... imbedded in a mass of concrete	C

SETTINGS IN STRUCTURES

30 - light structures (other than listed below)	D
31 - pavements (street, sidewalk, curb, apron, etc.)	D
32 - retaining walls, etc.= concrete ledge	C
33 - piles and poles (e.g. spike in utility pole)	D
34 - footings/foundation walls of small/medium structures	C
35 - mat foundations, etc.= concrete slab	C
36 - massive structures (other than listed below)	B
37 - massive retaining walls	B
38 - abutments and piers of large bridges	B
39 - tunnels	B
40 - massive structures with deep foundations	A
41 - large structures with foundations on bedrock	A

UNSLEEVED DEEP SETTINGS (10 FT. + )

45 - unspecified depth	C
46 - copper-clad steel rod	B
47 - galvanized steel pipe	B
48 - galvanized steel rod	B
49 - stainless steel rod	B
50 - aluminum alloy rod	B

## SLEEVED DEEP SETTINGS (10 FT. +)

## DEFAULT STABILITY CODE

55 - unspecified pipe/rod in sleeve	B
56 - copper-clad steel rod in sleeve	B
57 - galvanized steel pipe in sleeve	B
58 - galvanized steel rod in sleeve	B
59 - stainless steel rod in sleeve	B
60 - aluminum alloy rod in sleeve	B

## SETTINGS IN ROCKS OR BOULDERS

65 - unspecified rock	B
66 - in rock outcrop	A
67 - <b>set into a drill hole in rock outcrop</b>	A
68 - ... and marked by a chiseled cross	A
69 - ... and marked by a chiseled triangle	A
70 - ... and marked by a chiseled circle	A
71 - ... and marked by a chiseled square	A
73 - in a rock ledge	A
74 - <b>set into a drill hole in a rock ledge</b>	A
75 - ... at the intersection of two chiseled lines	A
76 - ... and marked by a chiseled triangle	A
77 - ... and marked by a chiseled circle	A
78 - ... and marked by a chiseled square	A
80 - in a boulder	C
81 - <b>set into a drill hole in a boulder</b>	C
82 - ... and marked by a chiseled cross	C
83 - ... and marked by a chiseled triangle	C
84 - ... and marked by a chiseled circle	C
85 - ... and marked by a chiseled square	C
87 - in a partially exposed boulder	C
88 - <b>set into a drill hole in a partially exposed boulder</b>	C
89 - ... and marked by a chiseled cross	C
90 - ... and marked by a chiseled triangle	C
91 - ... and marked by a chiseled circle	C
92 - ... and marked by a chiseled square	C
93 - in bedrock	A
94 - set in a drill hole in bedrock	A
<b>set into a mass of concrete ...</b>	
95 - ... in a depression in rock outcrop	A
96 - ... in a depression in a rock ledge	A
97 - ... in a depression in a boulder	C
98 - ... in a depression in a partially exposed boulder	C
99 - ... in a depression in the bedrock	A

MARKER TYPE CODES - (Not for Landmark stations)

A - aluminum marker ( <b>other than a disk</b> )	E - earthenware pot
B - bolt	F - flange-encased rod
C - cap-and-bolt pair	G - glass bottle
<b>DA - astro marker (usually a disk)</b>	H - drill hole
DB - bench mark disk	I - metal rod
DD - survey disk	J - earthenware jug
DE - traverse station disk	K - clay tile pipe
DG - gravity station disk	L - gravity plug
DH - horizontal control disk	M - ammo shell casing
DJ - tidal station disk	N - nail
DK - gravity reference mark disk	O - chiseled circle
DM - magnetic station disk	P - pipe cap
DO - unspecified disk type (see text)	Q - chiseled square
DP - base line pier disk	R - rivet
DQ - calibration base line disk	S - spike
DR - reference mark disk	T - chiseled triangle
DS - triangulation station disk	U - concrete post
DT - topographic station disk	V - stone monument
DU - boundary marker disk	W - unmonumented
DV - vertical control disk	X - chiseled cross
DW - NOS hydrographic survey disk	Y - drill hole in brick
DZ - azimuth mark disk	Z - see description

MARKER TYPE CODES (Landmark stations)

Landmarks

Not Listed:

00 - see description

Natural Objects:

01 - lone tree  
02 - conspicuous rock  
03 - mountain peak  
04 - rock pinnacle  
05 - rock awash

Waterfront Landmarks  
and Visual Aids  
to Navigation:

11 - piling  
12 - dolphin  
13 - lighthouse  
14 - navigation light  
15 - range marker  
16 - daybeacon  
17 - flag tower  
18 - signal mast

Aeronautical and  
Electronic Aids  
to Navigation:

21 - airport beacon  
22 - airway beacon  
23 - VOR antenna  
24 - RBN antenna  
25 - radar antenna  
26 - spherical radome  
27 - radio range mast  
28 - LORAN mast

Broadcast and  
Communications  
Facilities:

41 - antenna mast  
42 - radio/TV mast  
43 - radio/TV tower  
44 - microwave mast  
45 - microwave tower

Tanks and Towers:

51 - tank  
52 - standpipe tank  
53 - elevated tank  
54 - water tower  
55 - tower  
56 - skeleton tower  
57 - lookout tower  
58 - control tower

Miscellaneous  
Landmarks:

61 - pole  
62 - flagpole  
63 - stack  
64 - silo  
65 - grain elevator  
66 - windmill  
67 - oil derrick  
68 - commercial sign  
69 - regulatory sign  
70 - monument  
71 - boundary monument  
72 - cairn  
73 - lookout house  
74 - large cross  
75 - belfry

Features of  
a Building:

81 - gable  
82 - finial  
83 - flagstaff  
84 - lightning rod  
85 - chimney  
86 - cupola  
87 - dome  
88 - observatory dome  
89 - spire  
90 - church spire  
91 - church cross  
92 - antenna  
93 - microwave antenna  
94 - rooftop ventilator  
95 - rooftop blockhouse

MAGNETIC CODE - used to indicate the magnetic property of the mark or monument.

- A - steel rod adjacent to monument
- B - bar magnet imbedded in monument
- H - bar magnet set in drill hole
- I - marker is a steel rod
- M - marker equipped with bar magnet
- N - no magnetic material
- O - other - see description
- P - marker is a steel pipe
- R - steel rod imbedded in monument
- S - steel spike imbedded in monument
- T - steel spike adjacent to monument

TRANSPORTATION CODE - used to indicate the mode of transportation used (or to be used) to reach the station or to reach the location where packing begins, if packing to the station site is required.

- A - light airplane
- B - boat
- C - car (or station wagon)
- F - float airplane
- H - helicopter
- O - other (see descriptive text)
- P - light truck (pickup, carryall, etc.)
- T - truck (larger than 3/4 ton)
- W - tracked vehicle (Weasel, Snowcat, etc.)
- X - four-wheel drive vehicle

AGENCY CODE - used to indicate the type of survey organization which established or recovered the geodetic control point.

- A - National Agencies
- B - Inter-State or Inter-Province Agencies
- C - State, Province, Commonwealth, and Territorial Agencies
- D - County Agencies
- E - Municipal Agencies (Cities)
- F - Inter-City and Inter-County Agencies
- G - Railroads
- H - Utility and Natural Resource Companies
- I - Surveying, Engineering, and Construction Industry
- J - Educational Institutions
- K - Professional and Amateur Associations
- L - Miscellaneous Commercial or Private Firms
- M - Non-Specific Designators

CONDITION CODE - used to indicate the condition of the monument or mark each time the geodetic control point is recovered.

- G - Good
- N - Not Recovered, Not Found
- O - Other (See descriptive text)**
- P - Poor, Disturbed, Mutilated, Requires Maintenance
- X - Destroyed (See Note Below)

STABILITY CODE - may be entered in the \*26\* coded record to override the software default codes in the descriptions for publication.

CODE	DEFINITION
A	Monuments expected to hold their elevations very well.
B	Monuments which generally hold their elevations fairly well.
C	Monuments which may be affected by surface ground movements.
D	Monuments of questionable or unknown vertical stability.

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