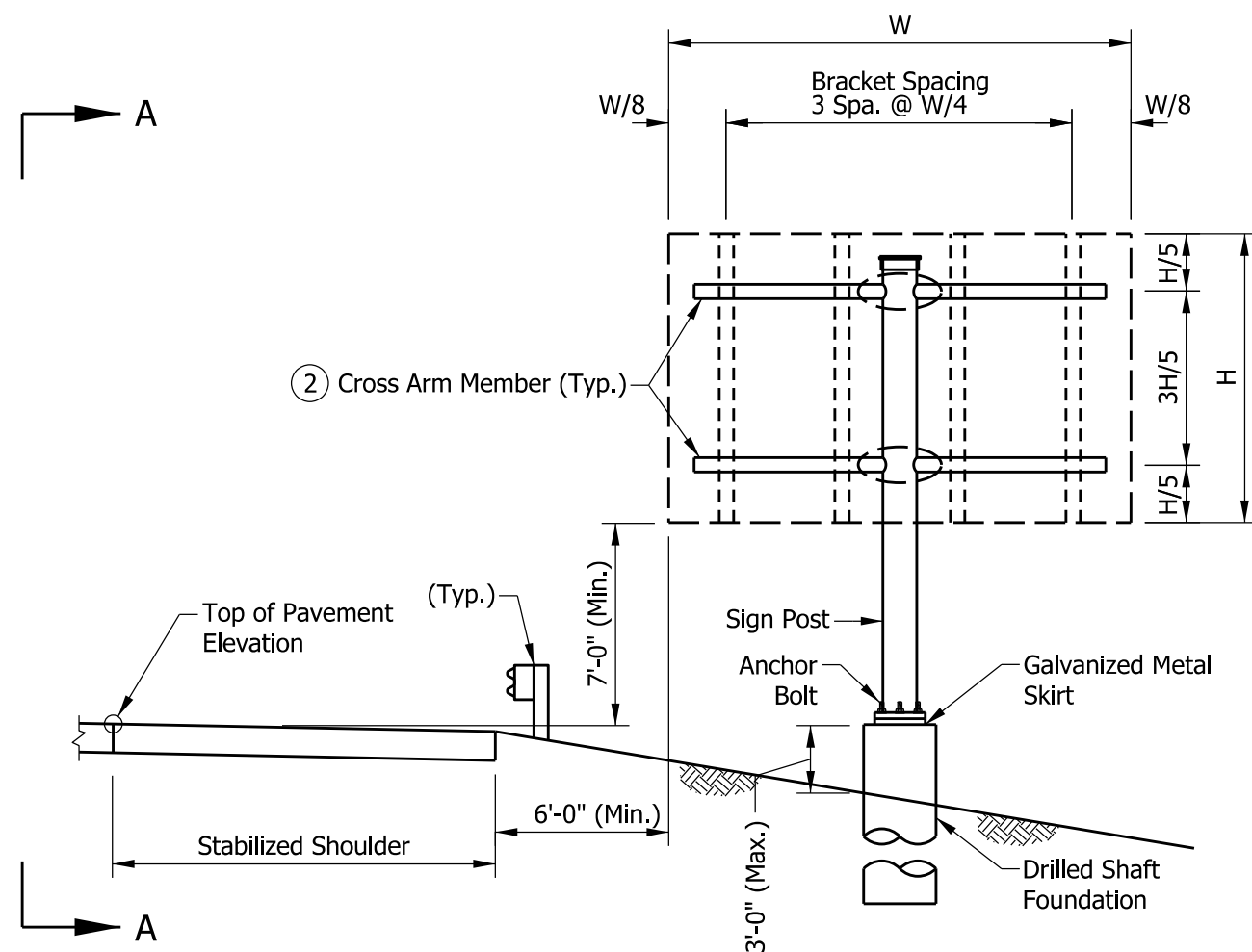
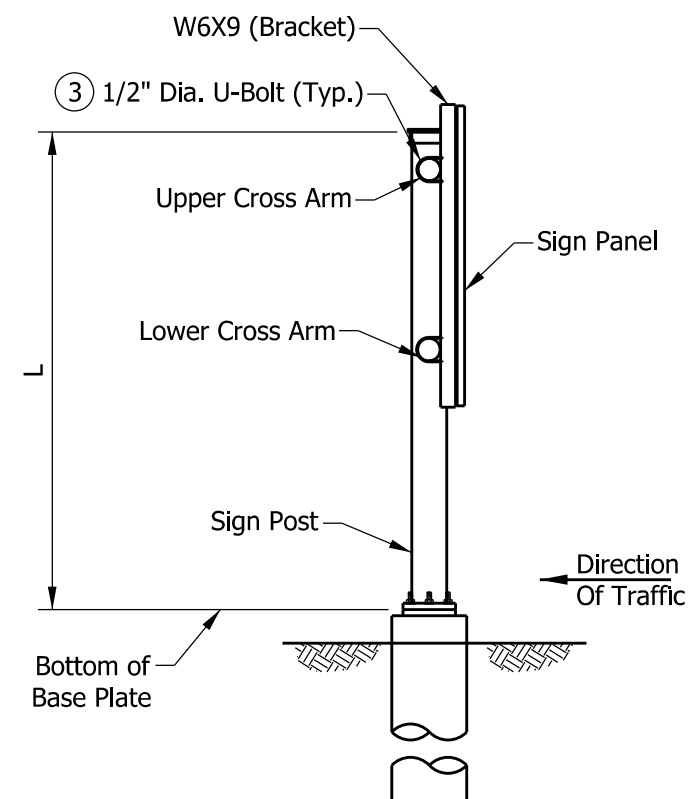


INDEX	
SHEET NO.	SUBJECT
1	Index
2	Plan, Elevation and Member Size
3	Cross Arm Connection, Cross Arm End Plate and Post Top Cap
4	Base Plate, Anchor Bolt, and Metal Skirt Details
5	Foundation

INDIANA DEPARTMENT OF TRANSPORTATION
NON BREAK-AWAY GROUND MOUNTED PANEL SIGN SUPPORT INDEX



ELEVATION



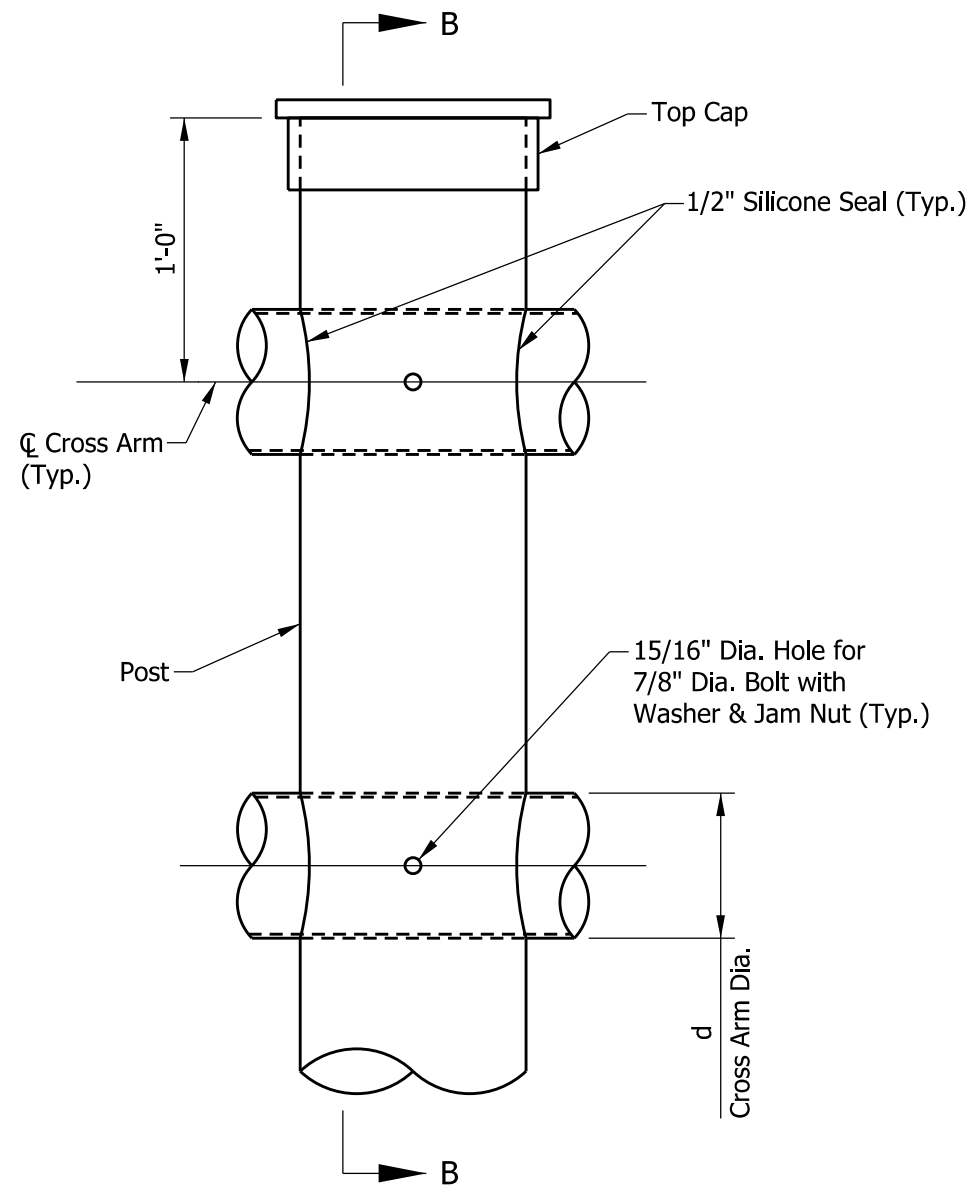
SIDE ELEVATION A-A

NOTE:

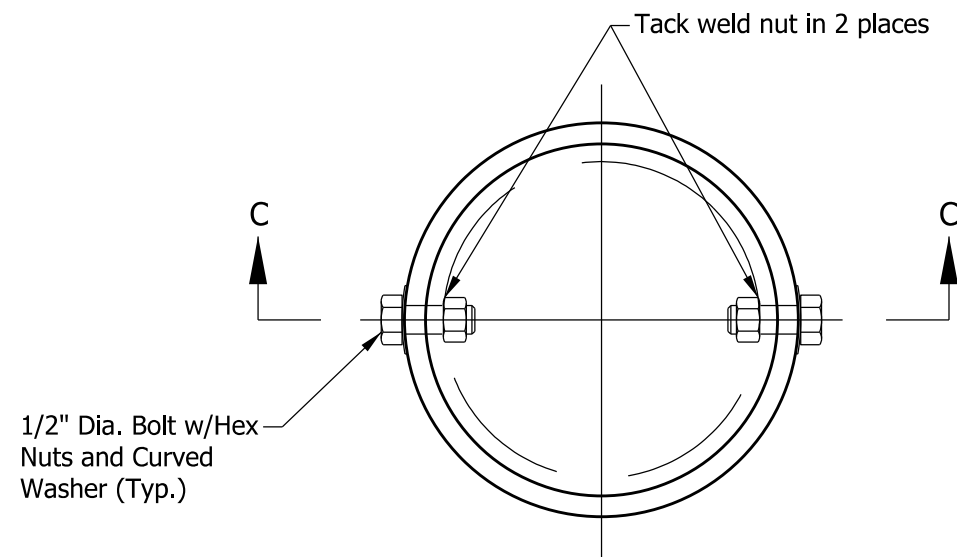
1. All structure members are steel. All member diameters shown are outside diameters. Pole sections may be round or 16 sided.
2. Diameters for 16 sided poles shall be measured from flat to flat.
- 3 Cross arms to extend to within 1 ft. of sign panel edge.
- 4 ASTM A449 or A193 Grade B8 U-Bolts, two flat washers, two lock washers, and two lock nuts per U-Bolt; 4 required per bracket.

MEMBER SIZES AND DIMENSIONS					
STRUCTURE TYPE	MAX. COLUMN LENGTH - "L"	MAX SIGN AREA	MAX SIGN HEIGHT "H"	COLUMN DIA. X THK.	CROSS ARM DIA. X THK.
NB 10	30'-9"	165 Sft.	15'	10.75" X 0.365"	3.5 X 0.216
NB 12	29'-6"	280 Sft.	20'	12.75" X 0.375"	4" X 0.226"
NB 16	38'-0"	300 Sft.	20'	16" x 0.375"	4" X 0.226"

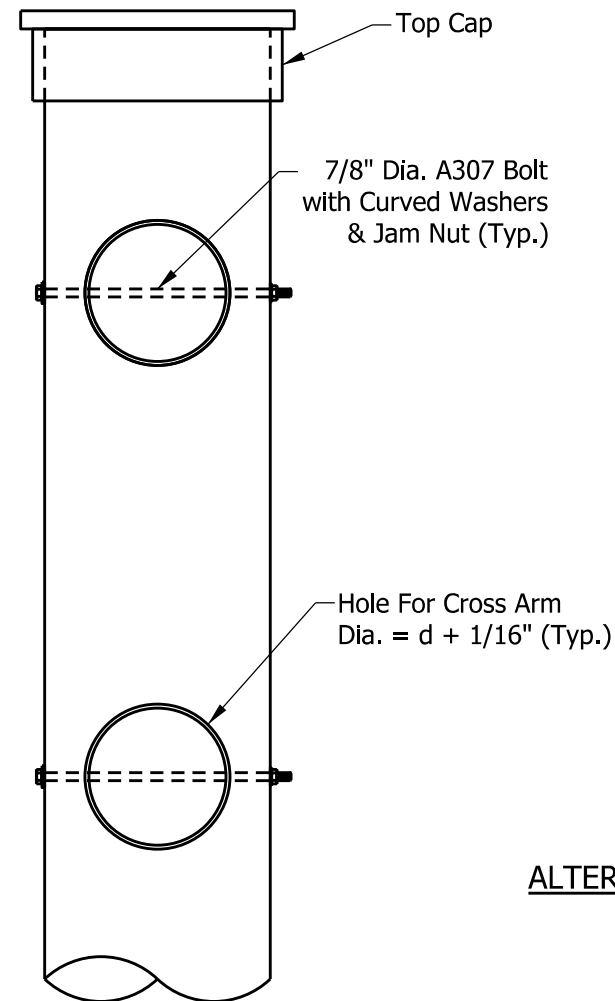
INDIANA DEPARTMENT OF TRANSPORTATION
NON BREAK-AWAY GROUND MOUNTED PANEL SIGN SUPPORT PLAN, ELEVATION AND MEMBER SIZE



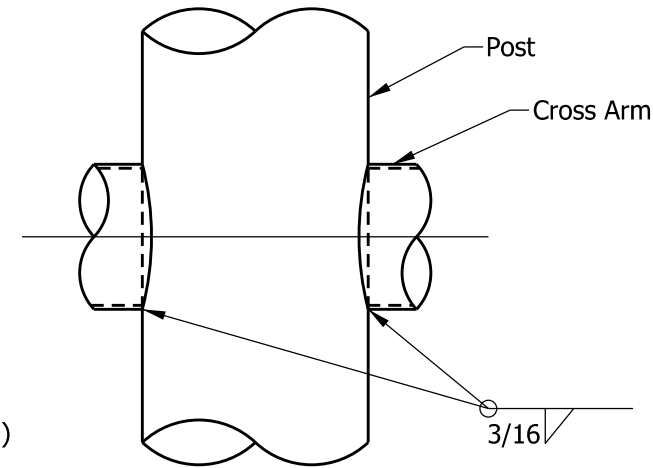
CROSS ARMS TO POST CONNECTION



PLAN
TOP CAP - STEEL POST



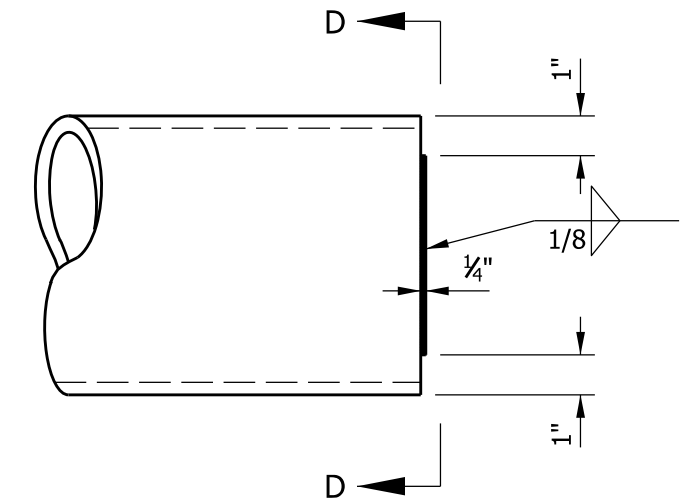
SECTION B-B



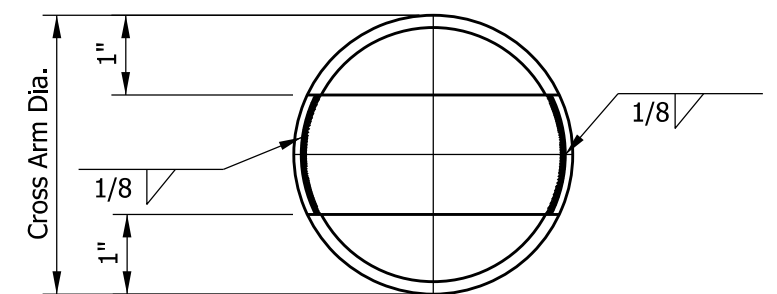
ALTERNATE CROSS ARMS TO POST CONNECTION

NOTES:

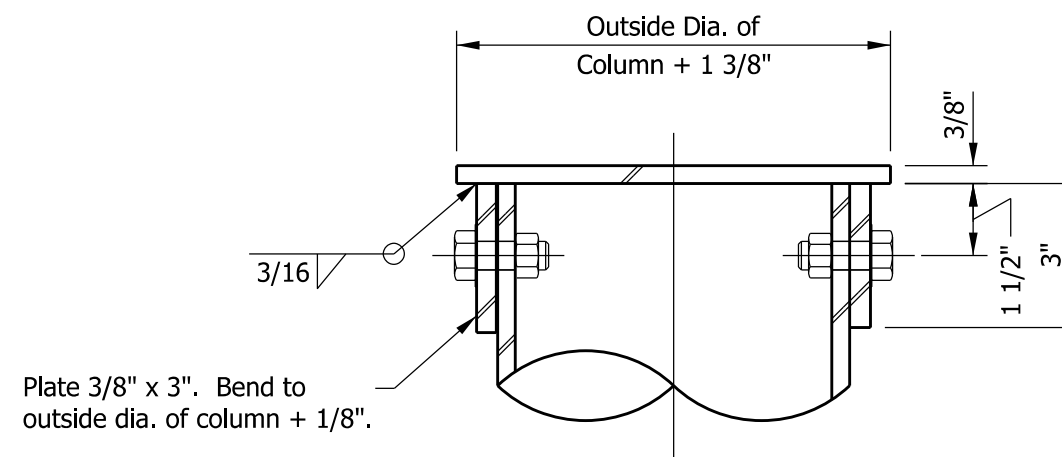
1. All feed lines shall be inside the pole.
2. All Sections shall be round HSS/pipe 42 KSI minimum yield (ASTM A500-B). Plate shall be 50 KSI minimum yield (ASTM A572-50).
3. Bolts shall be ASTM A325. All thread shall be ASTM F1554-105 nuts shall be ASTM A563 Grade "DH" or better. Washers shall be ASTM F436. Anchor rods shall be ASTM F1554-55 or greater.
4. All steel shall be hot dipped galvanized per ASTM A123.



CROSS ARM END PLATE DETAIL

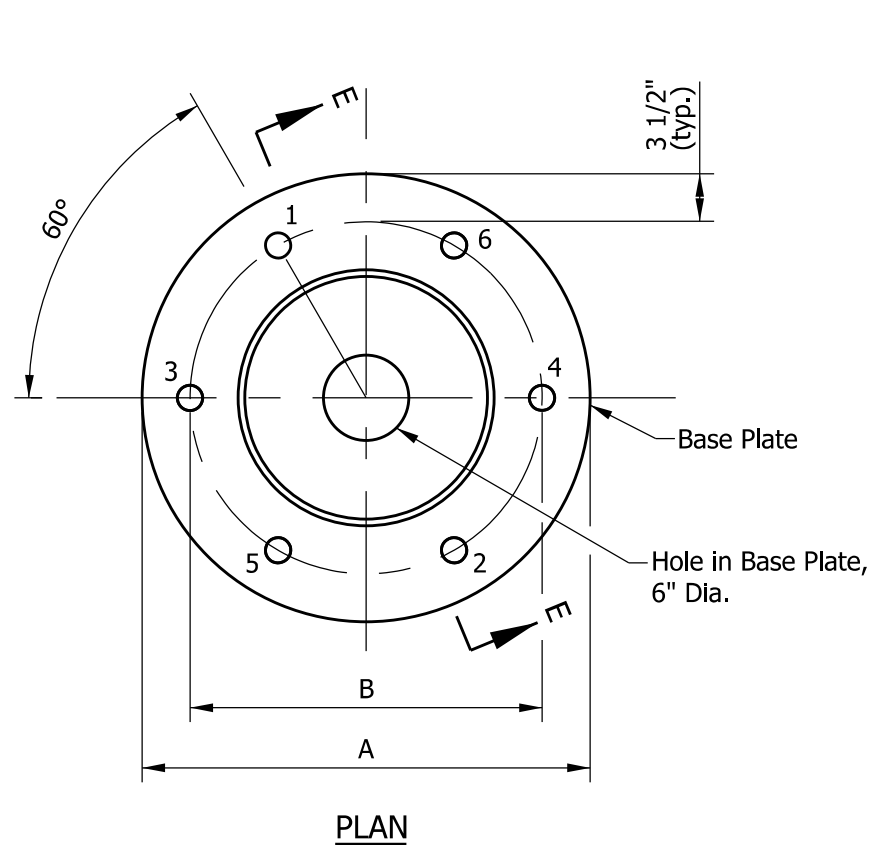
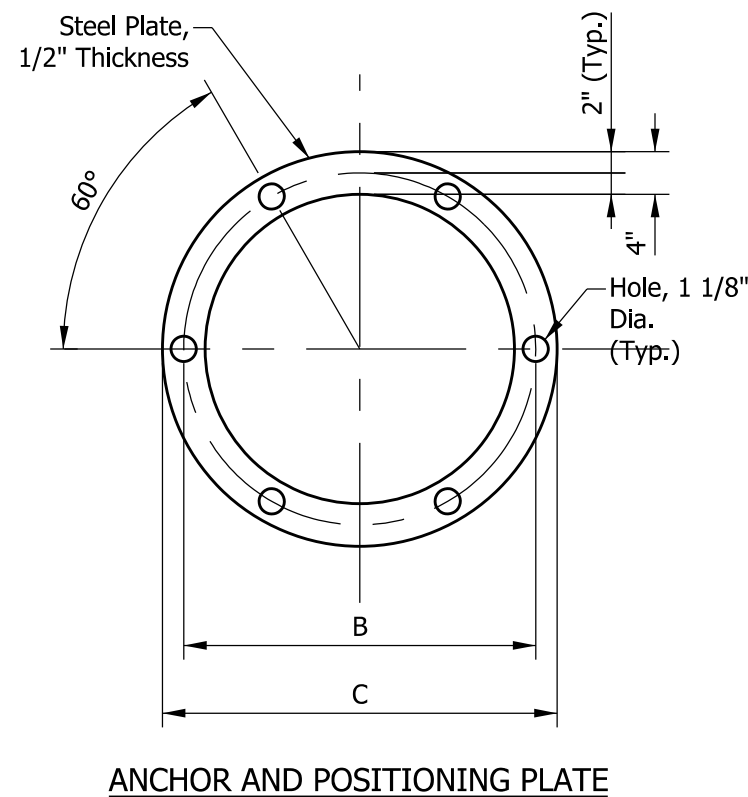


SECTION D-D

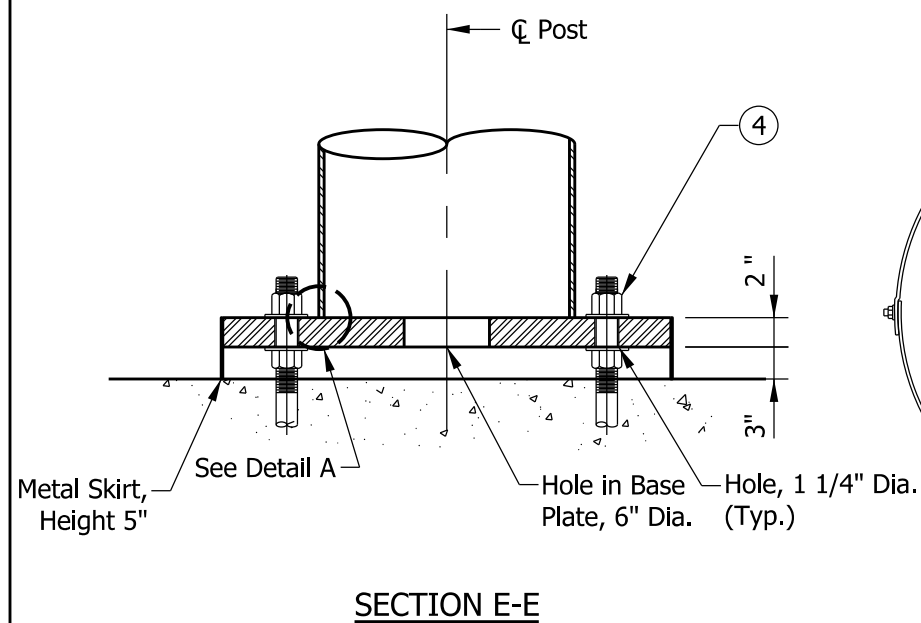
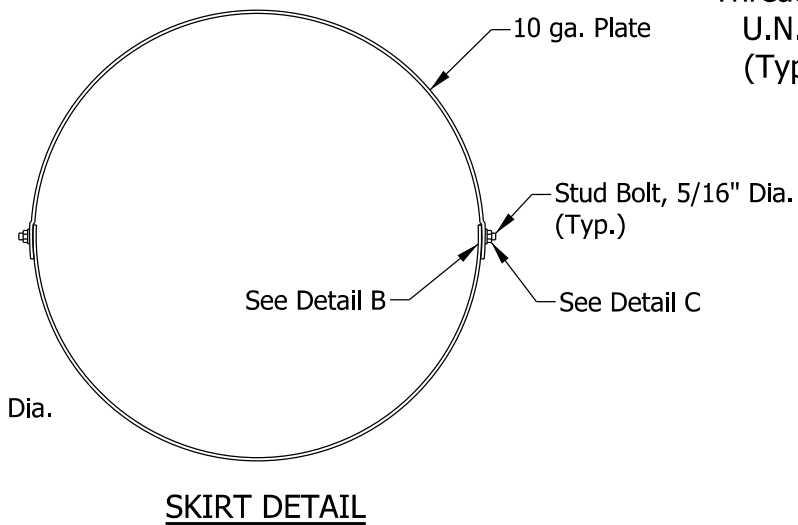
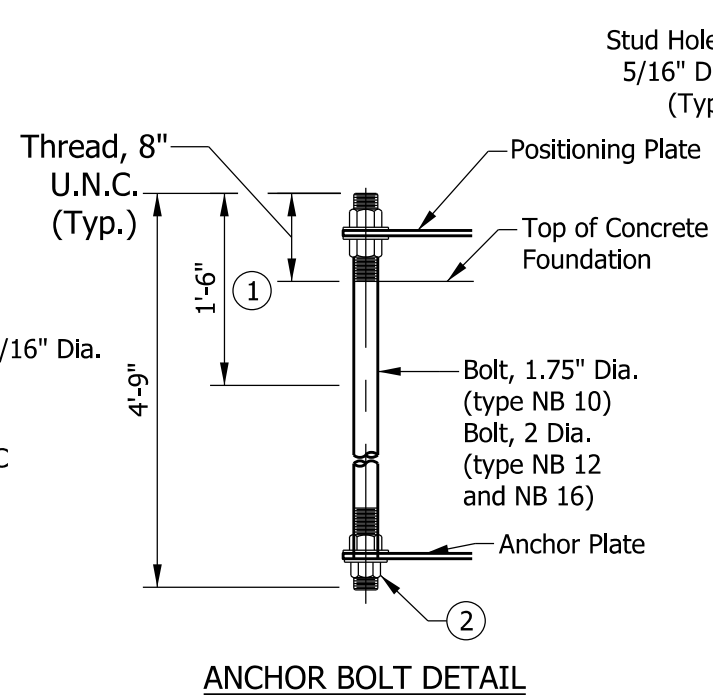


SECTION C-C

INDIANA DEPARTMENT OF TRANSPORTATION
NON BREAK-AWAY GROUND MOUNTED
PANEL SIGN SUPPORT
CROSS ARM CONNECTION, CROSS ARM
END PLATE AND POST TOP CAP

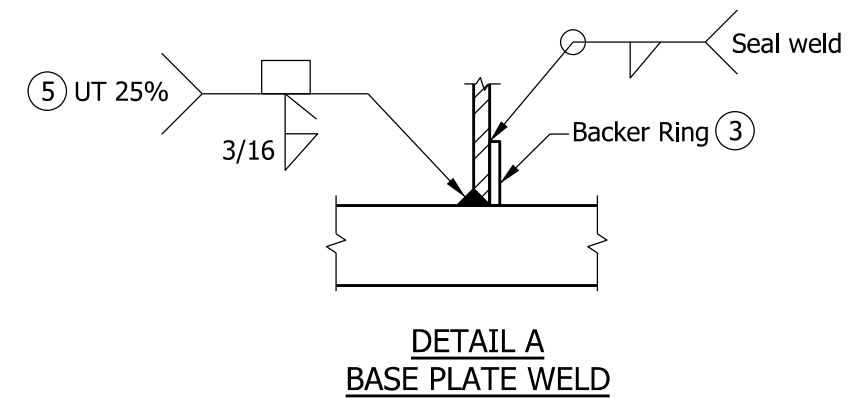
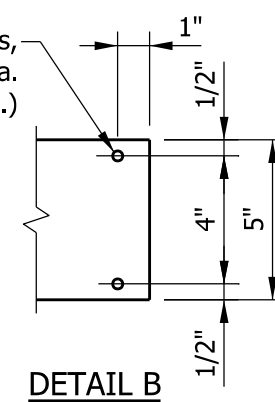
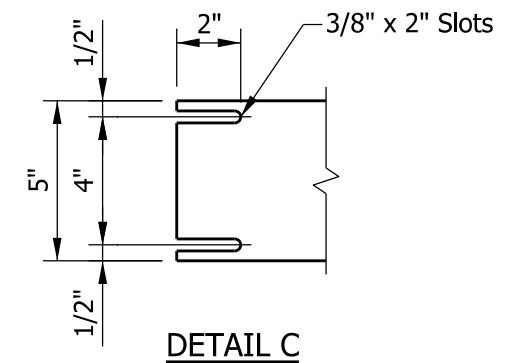


BASE PLATE DIMENSIONS				ANCHOR BOLT DIM.		
STRUCTURE TYPE	DIA.	BOLT CIRCLE	THICKNESS	NO.	DIA.	HOLE DIA.
NB 10	27"	20"	2"	6	1 3/4"	2"
NB 12	29"	22"	2"	6	2"	2 1/4"
NB 16	32"	25"	2"	6	2"	2 1/4"

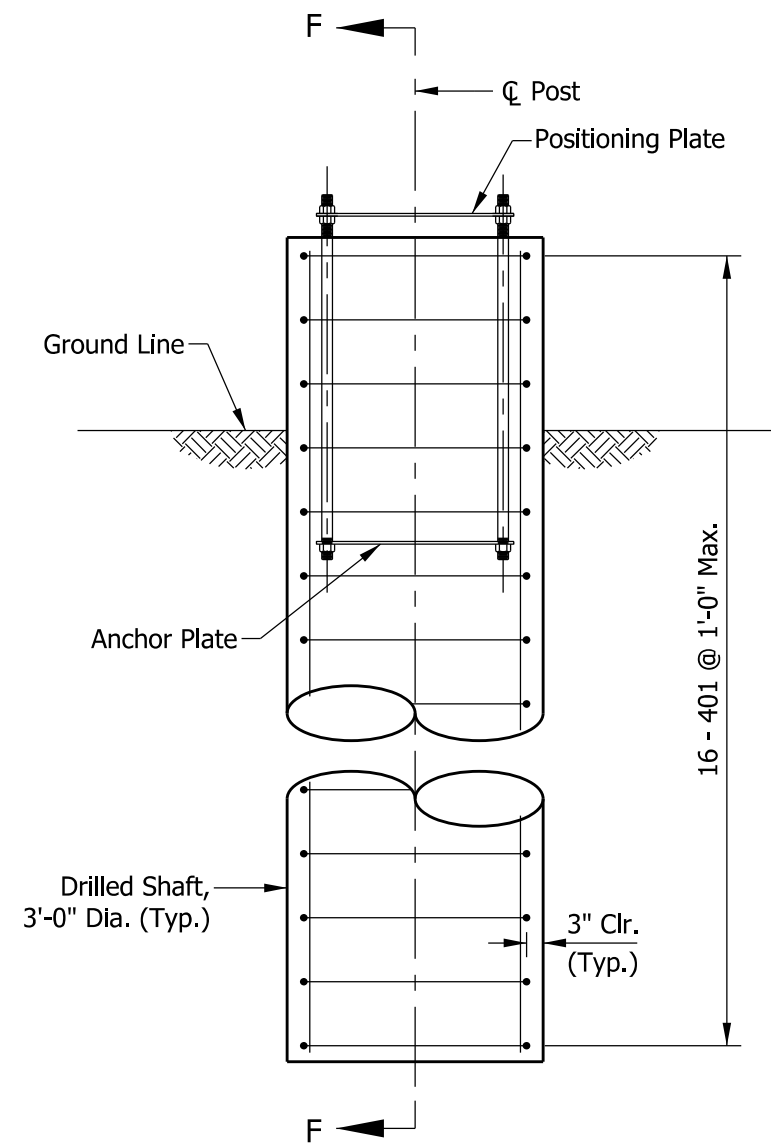


NOTES:

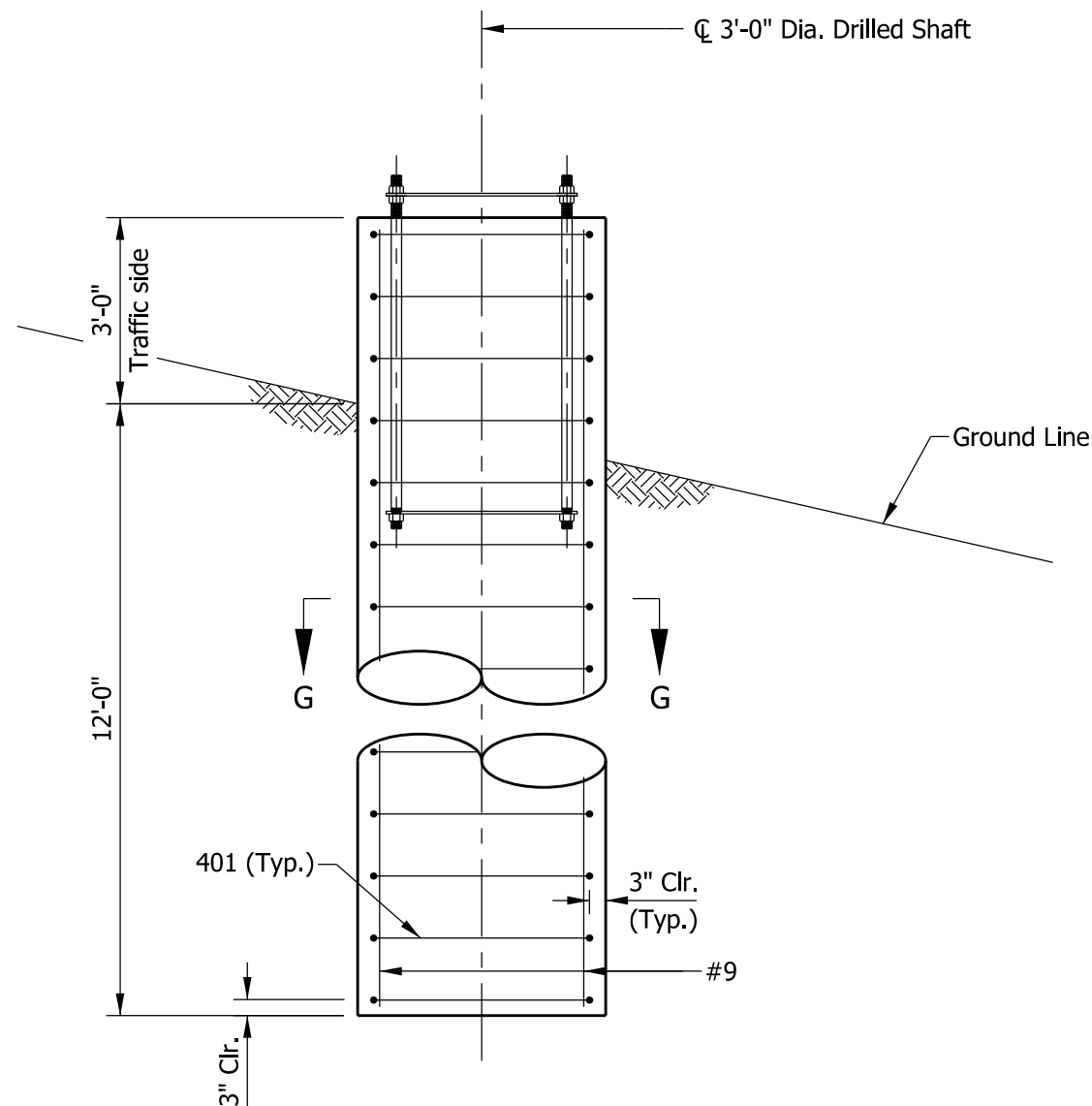
- ① Two camera mounting plate covers shall be provided with each structure".
- ② Twelve 0.75" hex head bolts with 1 nut, 1 lock washer, and 2 flat washers per bolt shall be provided.
- ③ Grounding wire from lighting rod shall be attached to bonding plate at the connector.



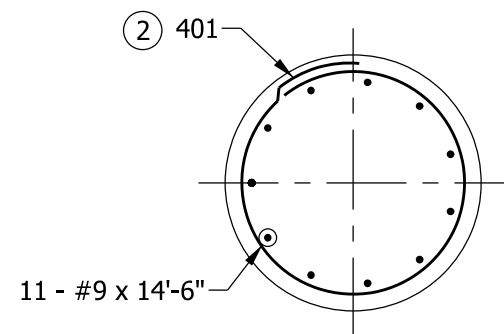
INDIANA DEPARTMENT OF TRANSPORTATION
NON BREAK-AWAY GROUND MOUNTED
PANEL SIGN SUPPORT
BASE PLATE, ANCHOR BOLT, AND
METAL SKIRT DETAILS



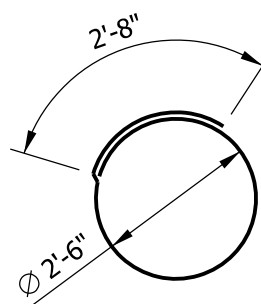
ELEVATION



SECTION F-F



DETAIL G-G



③ 401 x 10'-7"

NOTES:

- ① See Standard Drawing E 802-RBCS-04 for anchor and positioning plate and anchor bolt details.
2. Top and sides of foundation to the ground surface shall be sealed.
- ③ Each tie shall be rotated 90 degrees from previous tie to stagger lap locations.
4. Minimum concrete strength $f'_c = 3500$ psi.

BILL OF MATERIALS			
EPOXY-COATED REINFORCING BARS			
MARK OR SIZE	NO. OF BARS	LENGTH	WEIGHT
#9	11	14'-6"	
Total #9			543 LBS
401	16	10'-7"	
Total #4			114 LBS
Total Epoxy-Coated Reinforcing Bars			657 LBS
MISCELLANEOUS			
Concrete, Class A			4.0 CYS
Surface Seal			4.5 SYS

INDIANA DEPARTMENT OF TRANSPORTATION

NON BREAK-AWAY GROUND MOUNTED
PANEL SIGN SUPPORT
FOUNDATION