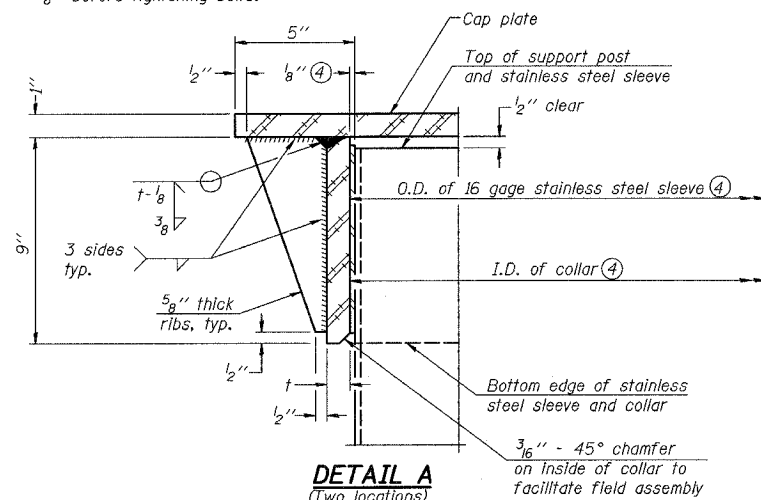
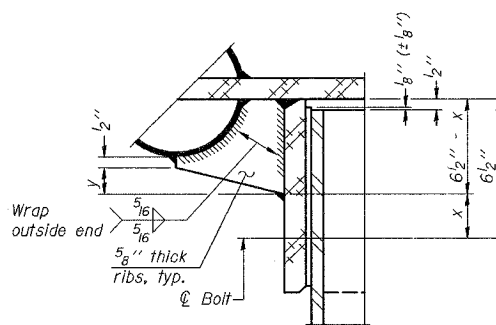


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8 inch (± 1/16 inch). Maximum gap between post and collar at any location equals 1/8 inch before tightening bolts.

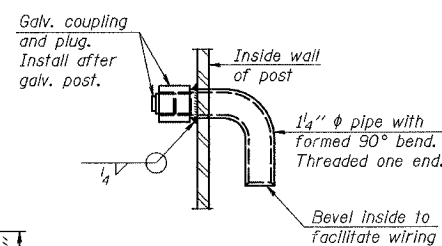
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



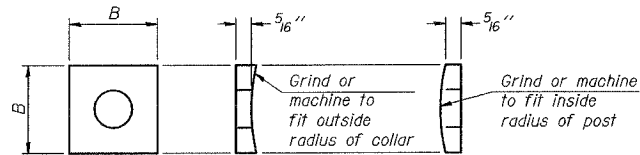
DETAIL A
(Two locations)



DETAIL B
Two locations
(For details not shown, see Detail C)



DETAIL D



CONTOURED WASHERS

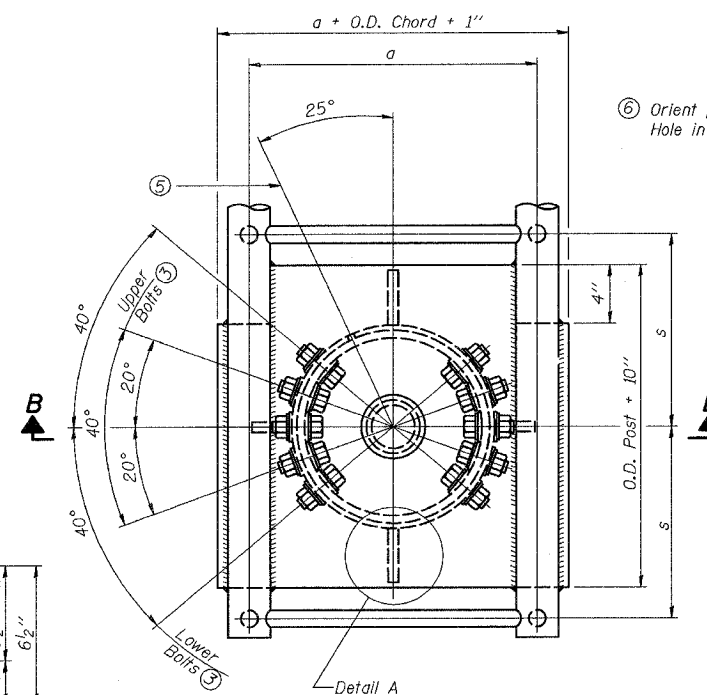
Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 1/2 inch long at 6 inch cts. along top edge and at 1/4 inch opening.

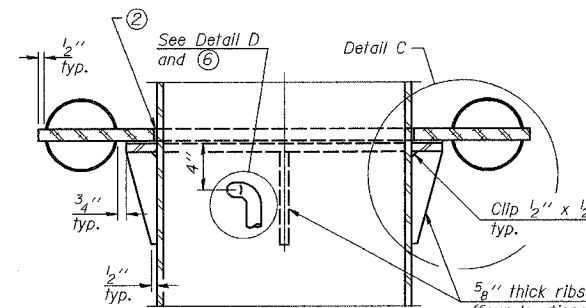
Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs
						x y
I-C-A	16" phi (83#/#)	7/8"	3 1/4"	8"	5/8"	1 3/4" 2 1/4"
II-C-A	24" phi (125#/#)	1"	3 1/2"	12"	7/8"	2" 1 1/4"
III-C-A (35' max.)	24" phi (125#/#)	1 1/4"	3 1/2"	12"	7/8"	2" 1"
III-C-A (>35' to 40')	24" phi (171#/#)	1 1/4"	3 1/2"	12"	7/8"	2" 1"

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

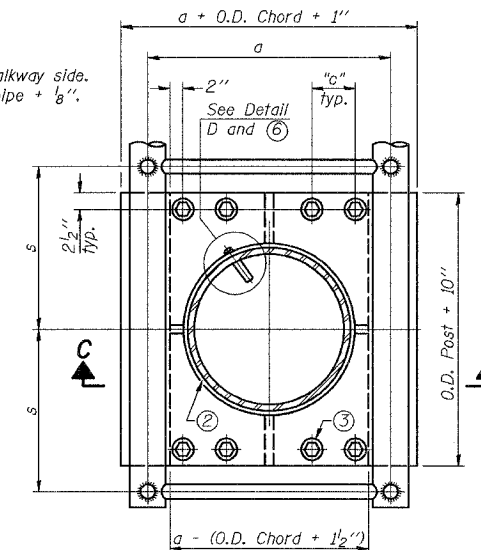


PLAN VIEW - TOP OF COLUMN

⑤ Optional full penetration weld in collar.
(Two locations maximum...180 degrees apart)...X-ray or UT 100%

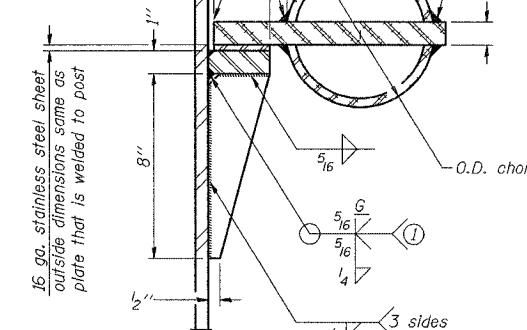


SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2 inch



DETAIL C

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

NUMBER	REVISION	DATE

DAVID MASON & ASSOCIATES
Civil Engineering
Structural Engineering
Surveying
445 E. Illinois, Suite 640
Chicago, IL 60611
(312) 943-8000

PARSONS BRINCKERHOFF

REVISIONS	
NAME	DATE

OSC-A-3 1-7-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55
US 30 (PLAINFIELD ROAD) TO LILY CACHE SLOUGH
CANTILEVER SIGN STRUCTURES
JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: DATE: 06-30-06 DRAWN BY: LC, JS, TC CHECKED BY: SE

FINAL