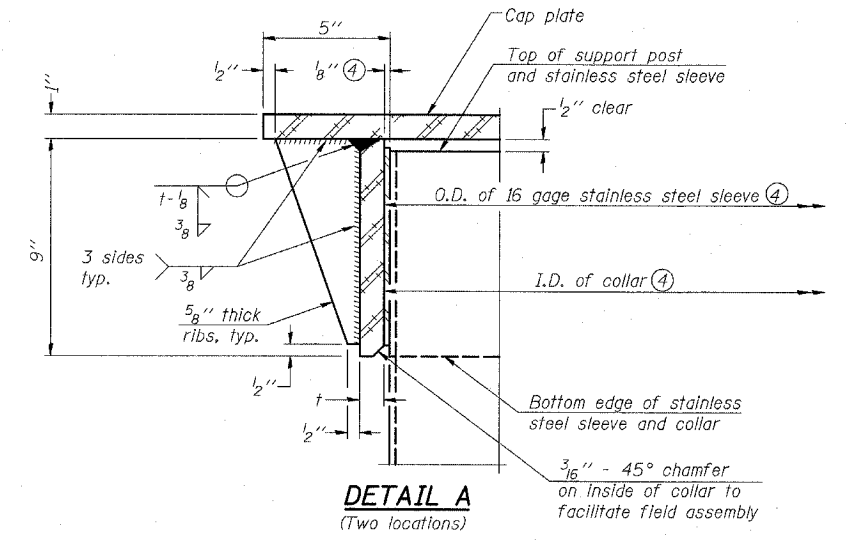


Holes in galvanized steel post and aluminum collar = bolt  $\phi + 1/16$ ".  
Holes in stainless steel sleeve = bolt  $\phi + 3/16$ ".

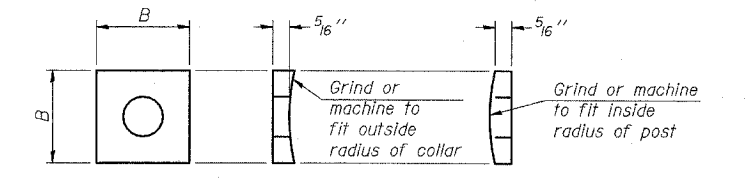
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus  $1/8$ " ( $\pm 1/16$ "). Maximum gap between post and collar at any location equals  $1/8$ " before tightening bolts.

**SECTION B-B**

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

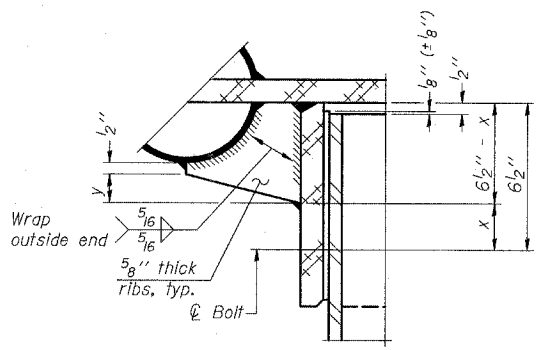


**DETAIL A**  
(Two locations)



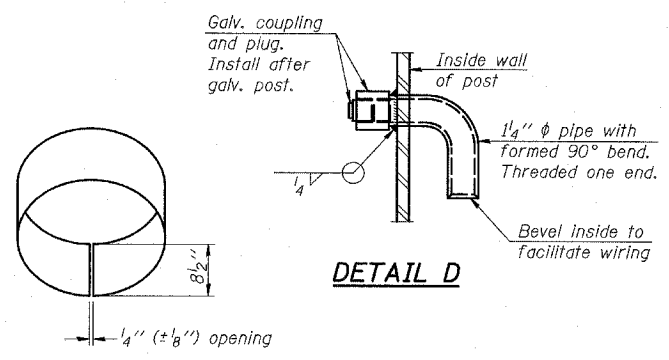
**CONTOURED WASHERS**

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 B**

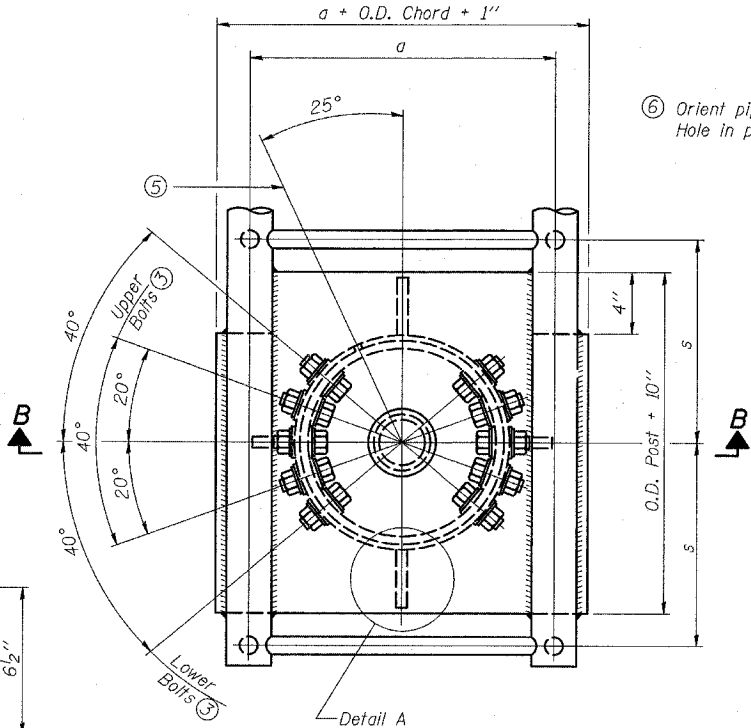
Two locations  
(For details not shown, see Detail C)



**DETAIL OF STAINLESS STEEL SLEEVE**

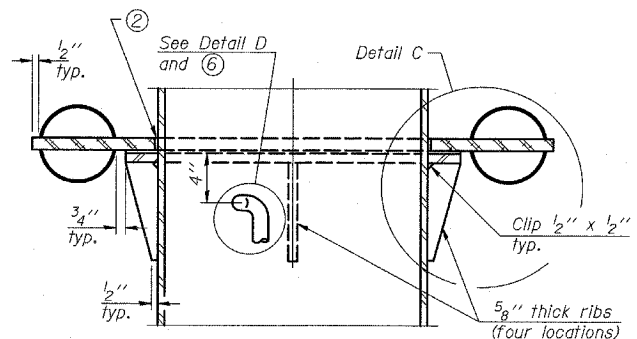
Weld to post after galvanizing.  
(Prepare post surface to insure tight, uniform fit and allow welding.)  
Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

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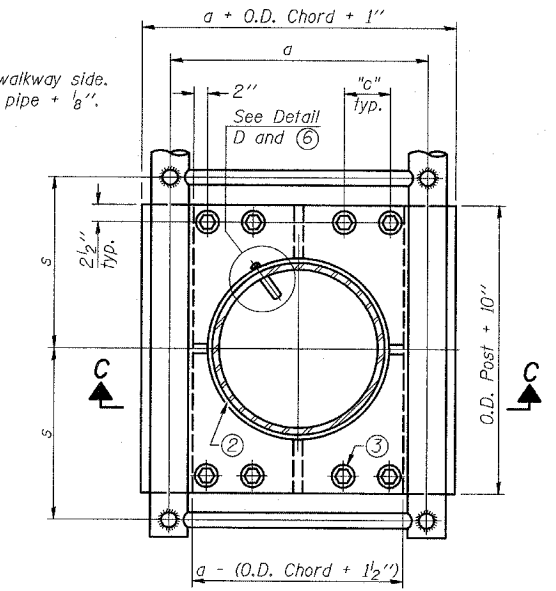


**PLAN VIEW - TOP OF COLUMN**

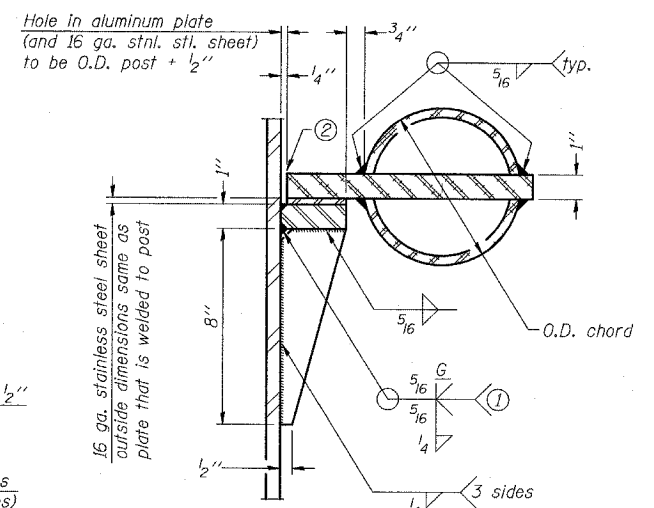
⑤ Optional full penetration weld in collar.  
(Two locations maximum....(180° apart)....X-ray or UT 100%)



**SECTION C-C**



**SECTION THRU POST ABOVE LOWER CHORDS**



**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.

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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
U.S. 41 (SKOKIE HIGHWAY)  
AT IL ROUTE 132  
CANTILEVER SIGN STRUCTURES  
JUNCTURE DETAILS  
ALUMINUM TRUSS & STEEL POST  
SCALE: N.T.S. DRAWN BY: JF, AF  
DATE: MAY 12, 2008 CHECKED BY: MAF