

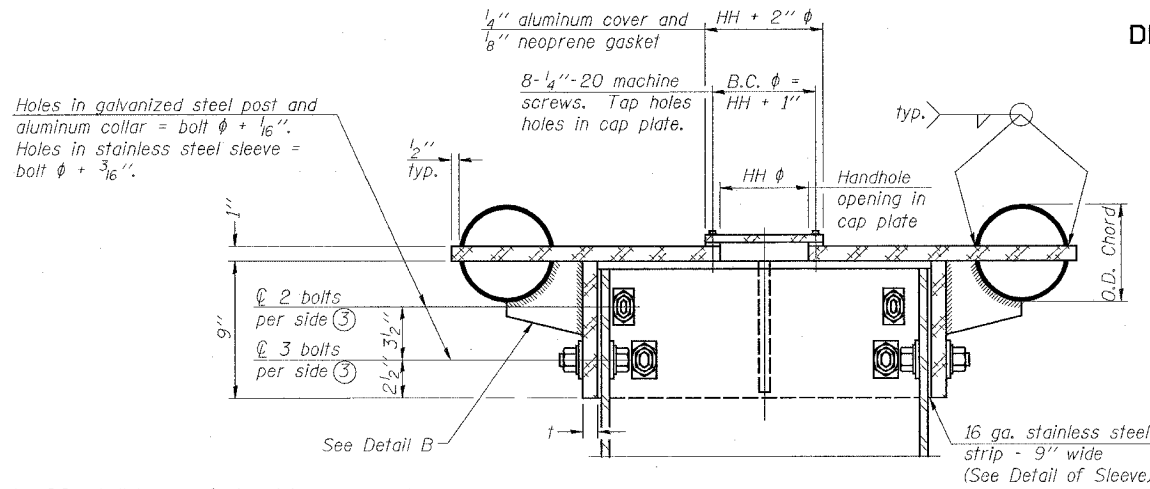
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

** DIST 8 ITS 2006-2
*** MADISON & ST. CLAIR &
CITY OF ST. LOUIS, MO

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55/70	**	***	52	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
6 SHEETS

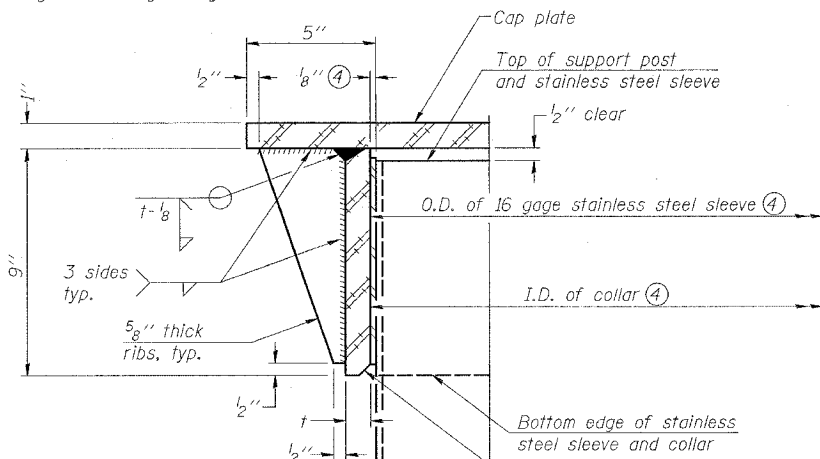
Contract #76973



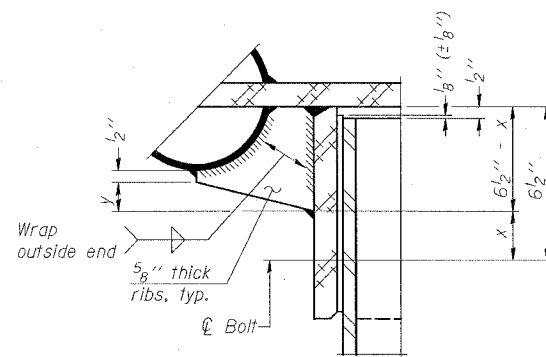
SECTION B-B

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

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.

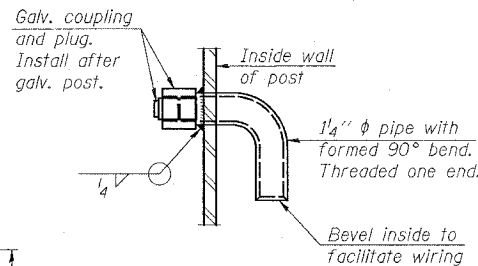


DETAIL A
(Two locations)

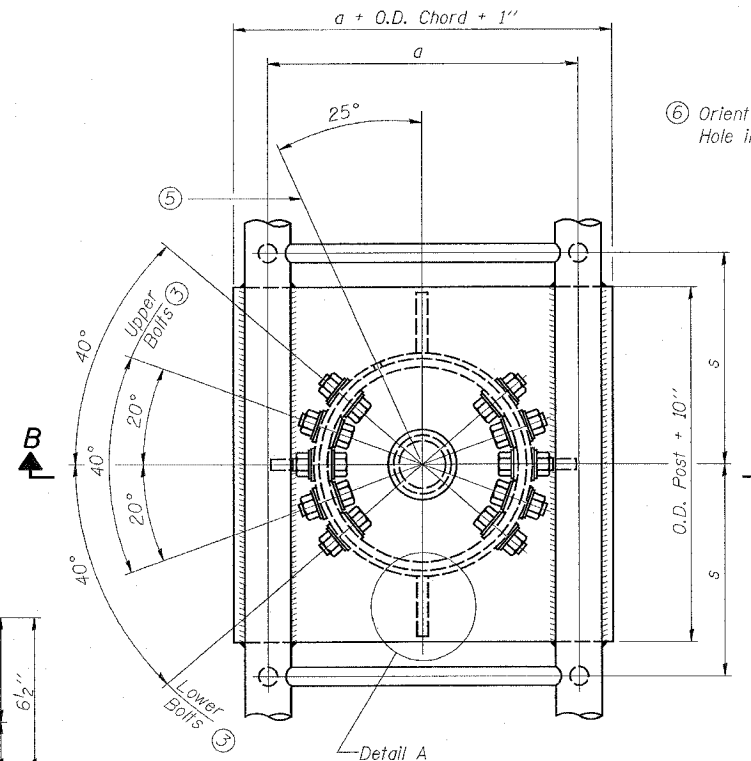


DETAIL B

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

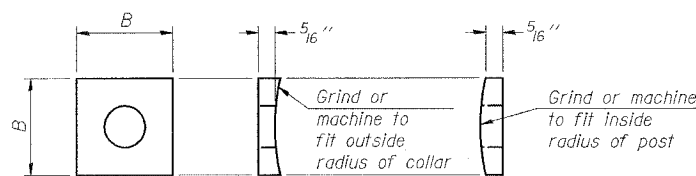


DETAIL D



PLAN VIEW - TOP OF COLUMN

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



CONTOURED WASHERS

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

DETAIL OF STAINLESS STEEL SLEEVE

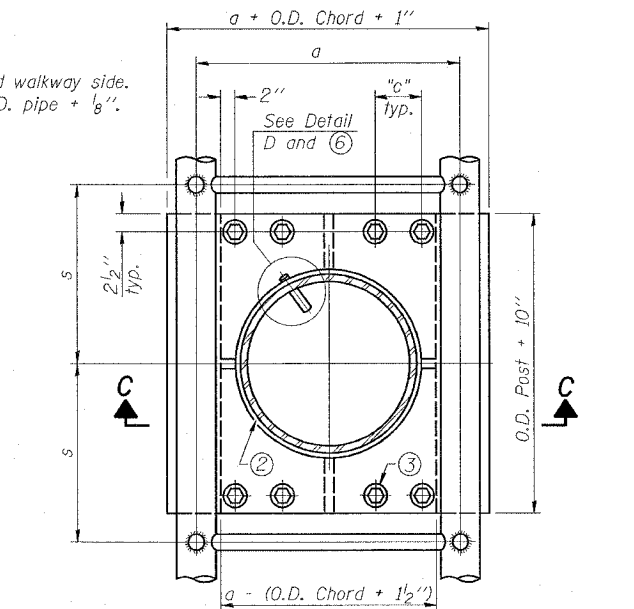
Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 1/2 inch long at 6 inch cts.
along top edge and at 1/4 inch opening.

NUMBER	REVISION	DATE

DESIGNED -	200
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

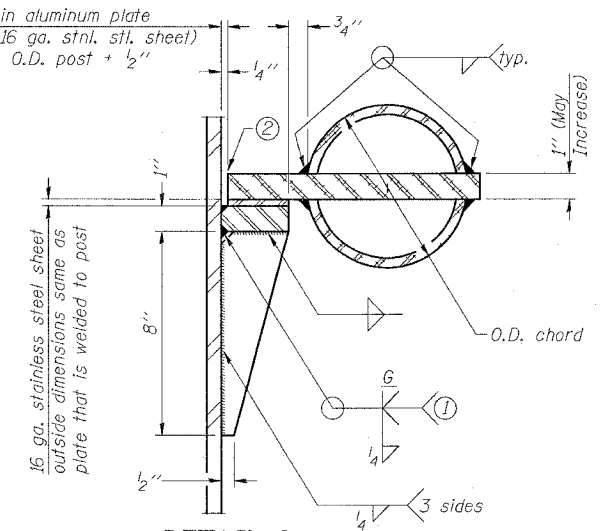
OSF-A-3-VMS

1-7-05



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 Butterfly.

**BUTTERFLY SIGN STRUCTURES
JUNCTURE DETAILS FOR FRONT ACCESS VMS
ALUMINUM TRUSS & STEEL POST**

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-F-A	16" φ (B3#1)	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"

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

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