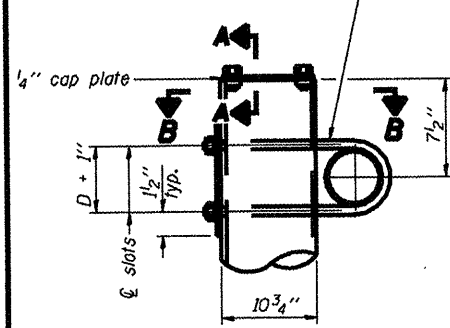
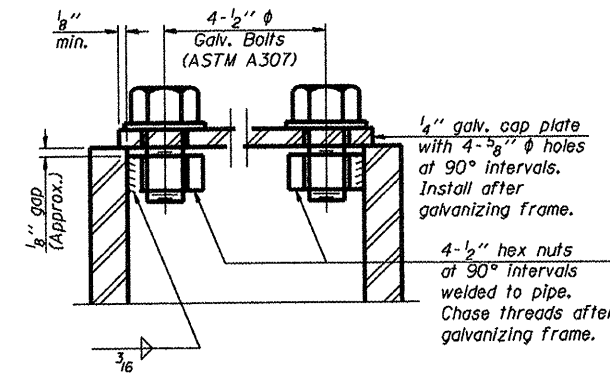


3/4" ϕ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 1/8" x 2" slots on ϕ 10" ϕ pipe.
(4 slots required per pipe)

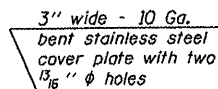


DETAIL A

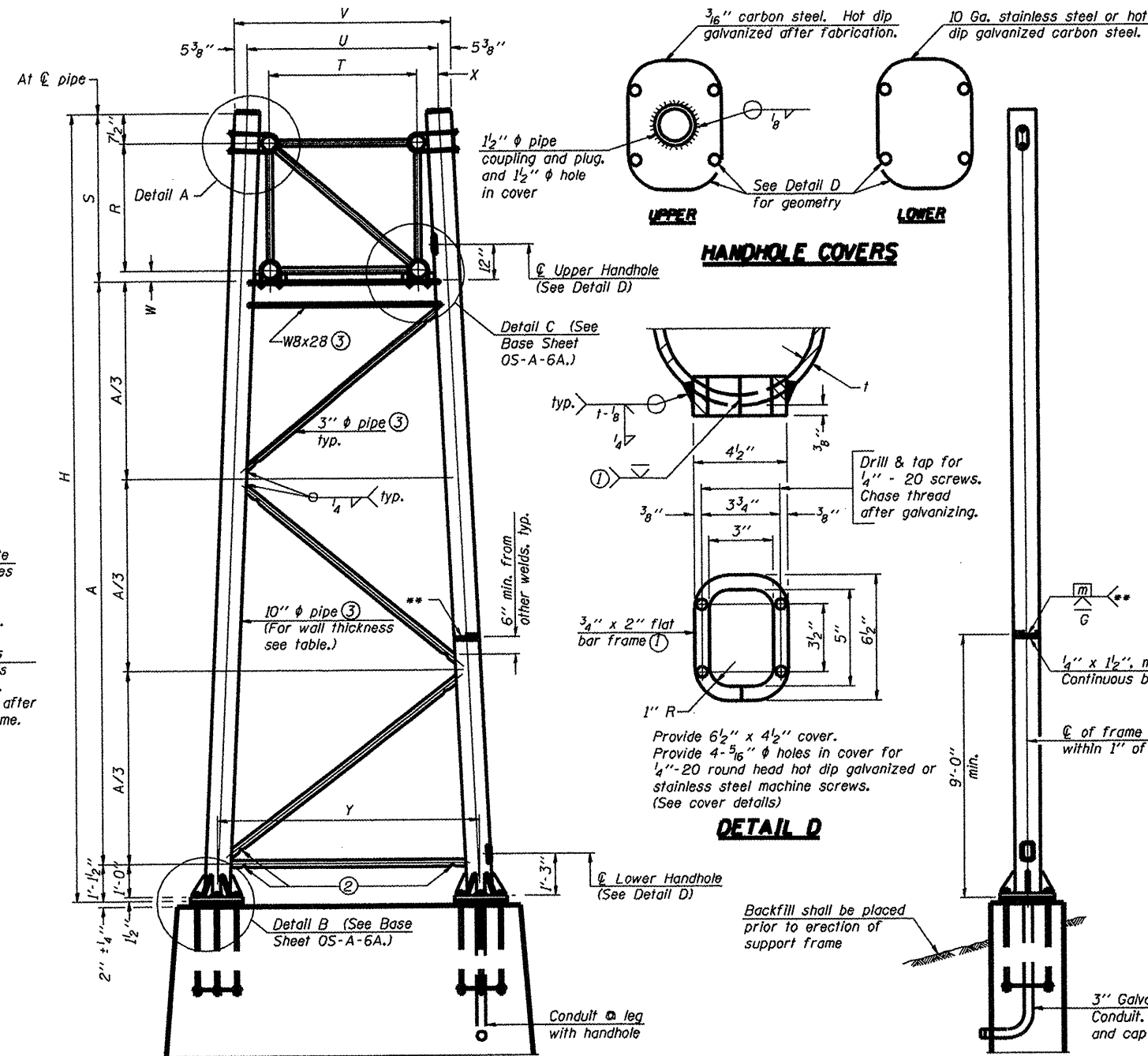


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

10" ϕ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
97	25081080R003.2	201+75	X		II-A	0.365	26' 6 1/2" 19' 1 1/2"
				X	II-A	0.365	26' 6 1/2" 19' 1 1/2"
100	25081080L003.8	234+25	X		II-A	0.365	28' 0 1/4" 20' 7 1/2"
				X	II-A	0.365	30' 6 1/4" 23' 1 1/2"
131	25081088L036.4	2217+20	X		II-A	0.365	30' 9" 23' 4"
				X	II-A	0.365	30' 3" 22' 10"
135	25081280R010.8	91+75	X		II-A	0.365	28' 9 1/2" 21' 4 1/2"
				X	II-A	0.500	32' 10 1/2" 25' 6"
46	25081000L000.0	215+70	X		II-A	0.365	26' 7 1/2" 19' 2 1/2"
				X	II-A	0.365	27' 1 1/2" 19' 8 1/2"

OS-A-6

1-20-11

FILE NAME: O:\BR\SIGN TRUSS\CADD Plans\2011-2 cont\act\PLANeng.dgn
USER NAME: lmkdj
PLOT SCALE: 100.0000 / IN.
PLOT DATE: Wed Apr 06 15:29:22 2011

DESIGNED: _____
DRAWN: _____
CHECKED: _____
DATE: _____
REVISED: _____
REVISED: _____
REVISED: _____
REVISED: _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A. SECTION COUNTY TOTAL SHEET NO.
RTE. SECTION COUNTY TOTAL SHEET NO.
var D-2 OVD SIGN STR REPL 12-03 VARIOUS 28 9
CONTRACT NO. 46176
ILLINOIS FED. AID PROJECT