Various Routes STATE OF ILLINOIS OVD SIN STR REP & REPL 2007-9 DEPARTMENT OF TRANSPORTATION Various Counties Sheet 16 of 50 Contract Number 44933 3₁₆" carbon steel. Hot dip galvanized after fabrication. 10 Ga. stainless steel or hot dip galvanized carbon steel. 34" • stainless steel U-bolt. 538' Provide two washers and two Support Design Loads: See Base Sheet OS-A-1 for design hexagon locknuts. (4) 186" x 2" slots on £ 10" \$ pipe. At € pipeand loading criteria. Load combinations checked include deadload plus: (4 slots required per pipe) a) 100% wind normal to sign, 20% parallel to sign b) 60% wind normal to sign, 30% parallel to sign 1½" ♦ pipe coupli and plug, and 12" hole in cover "4" cap plate Detail [] In lieu of fabricated handhole frame as shown, may cut <u>UPPER</u> LOWER from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less. HANDHOLE COVERS **€** Upper Handhole (2) Galvanizing vent holes of adequate size shall be provided (See Detail D) on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent Detail C (See Base Sheet OS-A-6A.) holes shall be drilled and de-burred, typ. -W8x28(3) 103," 3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be not dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1. DETAIL A. (4) See General Notes for fasteners. 4-5" 0 5) Dimensions shown are based on selection criteria in the Drill & tap Galv. Bolts for \(\sigma'' - 20 \) screws. Sign Structures Manual. Nonstandard applications must √ typ. (ASTM A307) Chase thread have dimensions verified or amended as appropriate. 334" after galvanizing. 3" (6) "H" based on 15'-0" or actual sign height, whichever is greater. at 90° intervals. Install after 10" pipe (3) galvanizing frame. **€** of frame (For wall thickness within 1" of plumb see table.) 4-5" hex nuts at 90° intervals welded to pipe. Chase threads after Support galvanizing frame. Truss Pipe Wall Structure Station 6 Thickness Provide 612" x 412" cover. Type Number Left Right Provide 4-56" o holes in cover for SECTION A-A 25101S251R004.6 22 · 00 0.365(STD) 23'-4 3/4" 16'-0" 4"-20 round head hot dip galvanized or As an alternate to bolts, may use galvanized stainless steel machine screws. drive-fit caps installed ofter galvanizing frame. 25101U020L019.0 (See cover details) DETAIL D 2S101U020L018.5 543 + 25 X X II-A 0.365(STD)23'-4 3/4" 16'-0" 3" wide - 10 Ga. bent stainless steel € Lower Handhole cover plate with two (See Detail D) B_{sc} " \$ holes Backfill shall be placed Detail B (See Base prior to erection of "D" = Outside support frome Chord Diameter

Conduit 🙃 leg

with handhale

SECTION B-B

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

SIDE ELEVATION

10" ¢ PIPE TRUSS SUPPORT FRAME

Truss					Dimensions			
Туре	R	S	Τ	U	V	W	Х	r
I-A	4'-6"	5'-5 ^l 2"	4'-0"	5′-6″	6'-434"	4"	9"	8'-3"
II-A (5)	5′-3″	6'-34"	4'-6"	6'-1"	6'-1134"	43,"	95"	8'-3"

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

3" Galvanized Steel

Conduit. Thread

END ELEVATION

and cap both ends.

District 2
End Support Replacement

DESIGNED .	
CHECKED -	EXAMINED
DRAWN -	PASSED ENGINEER OF BRIDGE DESIG
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES
DS-A-6	7/01/2006

NUMBER	REVISION	DATE