## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

 $l_2^{l_2}$ "  $\phi$  pipe coupling and plug, and  $l_2^{l_2}$ "  $\phi$ 

**€** Upper Handhole

typ.  $\frac{1-\frac{1}{8}}{1-\frac{1}{8}}$ 

 $\frac{3}{4}$ " x 2" flat bar frame (1)

Lower Handhole

Conduit o leg

with handhole

(See Detail D)

Detail C (See Base

Sheet OS-A-6A.)

hole in cover

-WBx28(3)

tvp.

10" \$ pipe (3)

see table.)

(For wall thickness

Detail B (See Base Sheet OS-A-6A.)

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

SIDE ELEVATION

" • pipe (3)

typ.

3<sub>16</sub>'' carbon steel. Hot dip galvanized after fabrication.

ee Detail L

for geometry

HANDHOLE COVERS

33,"

3"

Provide 6'2" x 4'2" cover.

(See cover details)

Provide 4-516" \$ holes in cover for

stainless steel machine screws.

DETAIL D

14"-20 round head hot dip galvanized or

Backfill shall be placed

prior to erection of

support frame

LOWER

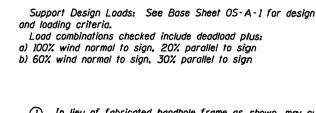
Drill & tap

Chase thread

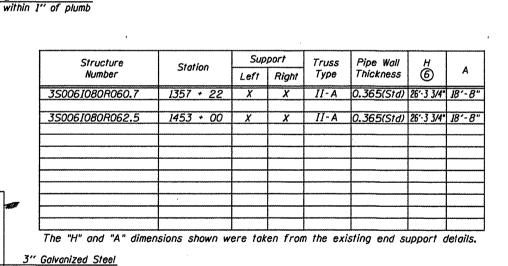
after galvanizing.

for \" - 20 screws.

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- (1) 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 µin 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.
- 3 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.
- 4) See General Notes for fasteners.
- (5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate,
- 6 "H" based on 15'-0" or actual sign height, whichever is greater.



END ELEVATION

10 Ga. stainless steel or hot dip galvanized carbon steel.

**€** of frame

## 10" ¢ PIPE TRUSS SUPPORT FRAME

Truss Type	Dimensions							
	R	S	T	u	V	W	X	Y
I-A	4'-6"	5'-52"	4'-0"	5′-6″	6'-434"	4"	9"	8'-3"
II- A (5)	5'-3"	6'-34"	4'-6"	6'-1"	6'-1134"	434"	91/2"	8'-3"

1034 DETAIL A Galv. Bolts (ASTM A307) " galv. cap plate with 4-5g" o holes at 90° intervals. Install after galvanizing frame. 4-5" hex nuts at 90° intervals welded to pipe. Chase threads after galvanizina frame. SECTION A-A As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

34" \$\phi\$ stainless steel U-bolt.

Provide two washers and two

(4 slots required per pipe)

" cap plate

hexagon locknuts. (4)
13/16 " x 2" slots on © 10" \$\phi\$ pipe.

3" wide - 10 Ga.

bent stainless steel
cover plate with two

""" = Outside
Chord Diameter

SECTION B-B

NUMBER REVISION DATE

53,

Detail A

At & pipe

Conduit. Thread

and cap both ends.

District 3
Sign Structure Replacement

OVERHEAD SIGN STRUCTURES

SUPPORT FRAME for ALUMINUM TRUSS