





Conduit 🛭 leg with handhole

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

- (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 Min or less.
- ② 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.

Support Structure Pipe Wall Truss Station Thickness Number Left Right Туре IS0161094R057.1 3511+00 II-A 0.365 (Std) 25.51' S0161094R057.1 I-A 0.365 (Std) IS016I094R056.8 II-A 0.365 (Std) 3524+00 1S0161094R056.8 3524+00 II-A 0.365 (Std) 1S016I094R056.67 3532+00 X 0.279 1S0161094R056.67 0.279 20'-65" 1S016I094R056.47 3543+00 1S016I094R056.47 3543+00 24'-64" 17'-114"

END ELEVATION

3" Galvanized Steel Conduit. Thread

and cap both ends.

10" \$ PIPE TRUSS SUPPORT FRAME

Backfill shall be placed

prior to erection of

support frame

NUMBER	REVISION	DATE

Detail B (See Base

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

SIDE ELEVATION

Sheet OS-A-6A.)

Truss Type	Dimensions								
	R	S	T	U	V	W	X	Y	Z
I- A	4'-6''	5'-512"	4'-0"	5′-6″	6'-434"	4''	9"	8'-3''	10'-9''
II-A (5)	5′-3″	6'-34"	4'-6''	6'-1''	6'-1134''	434"	91/2"	8'-3''	10'-9'

SGN-21

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31st STREET (SB LOCAL LANES)

OVERHEAD SIGN STRUCTURES

SUPPORT FRAME for ALUMINUM TRUSS

OVERHEAD SIGN STRUCTURES (SPAN)

DESIGNED	MSA	20
CHECKED	AS	EXAMINED
DRAWN	RV	ENGINEER OF STRUCTURAL SERVICE PASSED
CHECKED	MSA	ENGINEER OF BRIDGES AND STRUCTUR

SECTION B-B

³4" \$\phi\$ stainless steel U-bolt.

Provide two washers and two

(4 slots required per pipe)

14" cap plate -

hexagon locknuts. 4 $^{13}_{16}$ $^{\prime\prime}$ x 2 $^{\prime\prime}$ slots on 2 10 $^{\prime\prime}$ ϕ pipe.

1034"

DETAIL A

4- ½'' φ Galv. Bolts

(ASTM A307)

SECTION A-A

drive-fit caps installed after galvanizing frame.

3<u>'' wide - 10 Ga.</u> bent stainless steel

¹³₁₆ ″ ∮ holes

cover plate with two

As an alternate to bolts, may use galvanized

¼″ galv. cap plate with 4-5g″ ¢ holes at 90° intervals. Install after

galvanizing frame.

"D" = Outside

Chord Diameter

4-12" hex nuts at 90° intervals welded to pipe.