



NOTES:

1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. The Contractor shall provide new anchor bolt nuts and washers as necessary.
2. Some of these are non standard end supports the Contractor and the Engineer shall field verify the existing end support dimensions and the existing anchor bolt dimensions prior to fabrication of the new end supports. This measurement should include the horizontal distance between the center lines of the columns at the base of the columns to assure the new supports will fit the existing anchor bolt pattern.

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 μin 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.
- ⑥ "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				
BS082S013L002.5	45 + 70	X		III-A	0.365	32'-11"	23'-4 1/2"
			X		0.365	30'-10 1/2"	21'-3 3/4"
BS082S015R007.7	329 + 05	X		II-A	0.279	26'-9 1/2"	19'-1 1/2"
			X		0.279	26'-10 3/4"	19'-3"
BS082S015R007.6	353 + 20	X		III-A	0.279	31'-0 1/2"	21'-6"
			X		0.279	29'-11"	20'-3 3/4"
BS0601270R013.2	782 + 00	X		II-A	0.279	30'-4 3/4"	22'-9"
			X		0.279	28'-8 3/4"	21'-1"
BS082I055R003.7	100 + 30	X	X	II-A	0.279	27'-9 1/4"	20'-1 1/2"

The "H" and "A" dimensions shown were taken from the existing end support details.

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

SIDE ELEVATION

END ELEVATION

10" φ PIPE TRUSS SUPPORT FRAME

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"

NUMBER	REVISION	DATE

DESIGNED -	20
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for ALUMINUM TRUSS

District 8  
Sign Structure Replacement