

Note to Designer: The Information presented in this Standard Drawing has been prepared in accordance with recogniz engineering principles and is for general users in thouch on the standuch of for specific application without competent professional axamination and varifitation of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

DISTRIBUTION DATE

## OVERHEAD SIGN NOTES:

Wind Loading: 90 MPH Velocity

Maximum Height: 50'-0 from average surrounding terrain to the  $\pounds$  of the mast arm (Regardless of post height). The Tubular Overhead has been designed for site conditions which are level and neither elevated above the average surrounding terrain by more than the 50'-0 height shown nor supported on a bridge.

Maximum difference between post heights for an individual frame = 5'-0.

Additional sign attachment to the tubular frame is not allowed.

For Standard pipe mast arms with lengths greater than 60-0 an optional field splice will be permitted at the third points of mast arm length to facilitate hauling operations. All additional field splices in the Mast Arm proposed by the fabricator will not be allowed.

The Optional Shop Splice may not be used when the splice location is less than 5'-0 above the top of base plate. Shop splice of pipe sections (other than shown) are not permitted without prior approval.

Drill and tap for  $1\frac{1}{2}$ " chase nipples and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic. Install nipples on shoulder posts only.

Before any portion of the tubular frame is assembled in its final position, the Contractor shall demonstrate to the Engineer by preassembly or other approved methods that the span length of the frame in the no load condition is equal to  $(\pm \frac{1}{2})$  inch) the field measured span length between foundations.

If the tubular frame is erected as one unit the frame shall be adequately suspended to avoid distortions or changes in span length between base plates.

The Field Splice surfaces shall be in full contact without gaps prior to the bolts being snug tightened and fully tensioned. The contact surface is the area defined by a  $1\frac{3}{4}$ " radius around each bolt.

Provide electrical grounding at pole foundations per ADOT Standard Specification Section 732-3.03.

## NOTE:

Project drawings shall provide the following site specific DMS frame information on each DMS location sheet:

DMS FRAME SUMMARY TABLE			
DMS NO.:	VERTICAL CLEARANCE, H <sub>3</sub> :		
ROUTE:	TOP OF BASE PLATE, ELEV. A:		
MILE POST:	TOP OF BASE PLATE, ELEV. B:		
STATION:	POST OFFSET, X1:		
FRAME SPAN, L1:	POST OFFSET, X <sub>2</sub> :		
HEIGHT, H <sub>1</sub> :	DMS OFFSET, X <sub>3</sub> :		
HEIGHT, H <sub>2</sub> :	CATWALK LENGTH, C1:		
	CATWALK LENGTH, C <sub>2</sub> :		

	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING		
UTION <u>04/19</u> Date	DYNAMIC MESSAGE SIGN TUBULAR FRAME PLAN AND ELEVATION	DRAWING NO. SD 9.52 (1 of 5)	