

Elbow

1.219

1.280

1.125

1.219

1.280

1.125

10'-0

12'-0

12'-0

Arm

0.500

0.625

0.875

Type

56' - 70'

71' - 110'

111' -142'

16"

## OVERHEAD SIGN NOTES:

Wind loading: 90 MPH Velocity.

Maximum Height: 50'-0 from average surrounding terain to the & of mast arm and sign panel (Regardless of post height).

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.

The Optional Shop Splice may not be used when the splice location is less than 5'-0 above the top of base plate.

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 during installation 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  $1\frac{3}{8}$  " radius around each bolt.

All tubular steel, plates, sign supports, catwalks, bolts, nuts and washers shall be galvanized in accordance with General Notes.

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

## NOTE:

Project drawings shall provide the following site specific frame and catwalk information on each LED Dynamic Message Sign Location sheet:

LED Dynamic Mc33age 31gh rocallon sheet.			
FRAME AND CATWALK SUMMARY TABLE			
LED 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, H1:	SIGN OFFSET, X3:		
HEIGHT, H <sub>2</sub> :	CATWALK LENGTH, C1:		
TILT, T:	CATWALK LENGTH, C2:		

DESIGN APPR	emm Ciman	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STRUCTURE DETAIL		
DMS (VARIABLE TILT CATUBULAR FRAME PLAN & ELEVATION		FRAME		
ROUTE	PROJECT NO.	FA NO.	DRAWING NO. SD 9.53 (1 of 5)	
LOCATION	,	•	SHEET NO. <b>OF</b>	

(Provide 9 inch diameter hole in center of column base plate to accommodate two  $1\frac{1}{2}$  on non-metallic conduits). For Frame and Handhole Details see SD 9.20 (3 of 5).

For Camber Diagram see SD 9.20 (3 of 5).

For LED DMS Camber Table see SD 9.53 (4 of 5).