GENERAL PLAN

ADOT Standard Specification Section 732-3.03.

04/19

TUBULAR CANTILEVER

1. Provide electrical grounding at pole foundations per area defined by a 1" radius around each bolt.

5. The Optional Shop Splice may not be used when the pipe assembly shall be field repaired in the shop.

10. During sign erection the post shall be raked as necessary with the use of leveling nuts to make the sign panel level. See Traffic Signing Plans for deflections due to dead loads and tubular cantilever structure and dead loads due to sign panels and attachments.

All signs shall be placed within Sign Panel Location.

4. The sum of the sign panel area plus the exit panel area exceed 70 sq ft.

3. All sign panels shall be level and neither elevated above the average surrounding terrain by more than 10 ft.

2. The pipe flange of mast arm shall be perpendicular to its longitudinal axis. The pipe flange of elbow shall be tilted from the vertical line given in the table.

6. Drill and top for 1 1/4" chase nipples and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic.

8. All bolts shall be galvanized in accordance with the requirements of ASTM A153. All other steel shall be galvanized after fabrication in accordance with ASTM A123.

9. The Field Splice surfaces shall be in full contact without gap prior to the bolts being snug tightened and fully tensioned. The contact surface is the area defined by a 1/4" radius around each bolt.

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

Note to Designer:

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The information presented in this Standard Drawing has been prepared in accordance with recognized site conditions which are level and neither elevated above the average surrounding terrain by more than 10 ft.

The Camber shown is required to be built into mast arm. Members shall be erected so that camber is provided above the horizontal line thru the field splice.

1. Wind Loadings: 90 MPH Velocity.

2. Maximum Height 50 ft. from average surrounding terrain to the center of the sign panel. Regardless of post height. The Tubular Cantilever has been designed for site conditions which are level and neither elevated above the average surrounding terrain by more than the 50 ft. height shown on a bridge.

3. The maximum sign panel overlap onto elbow shall not exceed 10 ft. from field splice.

4. The sum of the sign panel area plus the exit panel area exceed 70 sq ft.

5. The Optional Shop Splice may not be used when the sign panel axis is less than 5 ft. above the top of base plates. Shop splice of pipe sections (other than shown) are not permitted without prior approval.

The Camber shown is required to be built into mast arm. Members shall be erected so that camber is provided above the horizontal line thru the field splice.

The Optional Shop Splice may not be used when the pipe assembly shall be field repaired in the shop.

Table 2

<table>
<thead>
<tr>
<th>Pipe Type</th>
<th>Max Length</th>
<th>Max Width</th>
<th>Nominal Pipe Dia</th>
<th>Post</th>
<th>Elbow</th>
<th>Mast Arm</th>
<th>Max Axial Sq. Ft.</th>
<th>Max Depth 'D'</th>
</tr>
</thead>
<tbody>
<tr>
<td>1C</td>
<td>60'</td>
<td>28&quot;</td>
<td>12&quot;</td>
<td>1.219</td>
<td>1.219</td>
<td>0.500</td>
<td>92</td>
<td>12'</td>
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<td>28&quot;</td>
<td>18&quot;</td>
<td>1.219</td>
<td>1.156</td>
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<td>151</td>
<td>12'</td>
</tr>
<tr>
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<td>28&quot;</td>
<td>20&quot;</td>
<td>1.280</td>
<td>1.280</td>
<td>0.625</td>
<td>245</td>
<td>12'</td>
</tr>
<tr>
<td>4C</td>
<td>60'</td>
<td>28&quot;</td>
<td>22&quot;</td>
<td>1.125</td>
<td>1.125</td>
<td>0.875</td>
<td>186</td>
<td>10'</td>
</tr>
</tbody>
</table>

For Foundation Details, see SD 9.10 (2 of 5) for Foundation with barrier see SD 9.10 (5 of 5)

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