NOTE:
For left catwalk details not shown, use opposite of details shown on this drawing.

<table>
<thead>
<tr>
<th>Post Spacing (L)</th>
<th>Catenary (C):</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Walk-In..Cabinett</td>
</tr>
<tr>
<td>2</td>
<td>Catwalk And Handrail</td>
</tr>
</tbody>
</table>

**NOTE:**
End spacing varies from 2'-2 min to 4'-6 max

**FRAME AND CATWALK SUMMARY TABLE**

<table>
<thead>
<tr>
<th>Pipe Type</th>
<th>Span (L)</th>
<th>Nominal Pipe Dia</th>
<th>90° Elbow Recluse</th>
<th>Post</th>
<th>Elbow</th>
<th>Most Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F</td>
<td>5'-0&quot;</td>
<td>10'-0&quot;</td>
<td>1'-219&quot;</td>
<td>1'-219</td>
<td>0.500</td>
<td></td>
</tr>
<tr>
<td>3F</td>
<td>7'-0&quot;</td>
<td>12'-0&quot;</td>
<td>1'-280&quot;</td>
<td>1'-280</td>
<td>0.625</td>
<td></td>
</tr>
<tr>
<td>4F</td>
<td>11'-0&quot;</td>
<td>14'-0&quot;</td>
<td>1'-125&quot;</td>
<td>1'-125</td>
<td>0.875</td>
<td></td>
</tr>
</tbody>
</table>

**TUBULAR FRAME ELEVATION**

WALK-IN SIGN CABINET DESCRIPTION:
- Depth: 8'-6"
- Length: 30'-8"
- Weight: 4000 lbs.

**NOTES:**
- Provide electrical grounding at pole foundations per defined by a 1..." radius around each bolt.
- Maximum Height: 50'-0" from average surrounding terrain
- Wind Loading: 90 MPH Velocity
- Maximum Height: 50'-0" from average surrounding terrain to the top of the mast arm, regardless of post height.
- **OVERHEAD SIGN NOTES:**
  - For Standard pipe mast arms with lengths greater than 60' an optional field splice will be permitted at the third point of mast arm length to facilitate hauling operations. All additional field splices in the mast arm proposed by the fabricator will not be permitted.
  - The Optional Shop Splice may not be used when the splice location is less than 5'-0" above the top of base plates. Shop splice of pipe sections shown in the plans and elevations are not permitted without prior approval.
  - Before the tubular frame is assembled in its final position, the Contractor shall demonstrate to the fabricator by presale or prior to fabrication that the span length of the frame in the no load condition is equal to 4'-6" measured span length between foundations.
  - For Standard pipe mast arms with lengths greater than 60' an optional field splice will be permitted at the third point of mast arm length to facilitate hauling operations. All additional field splices in the mast arm proposed by the fabricator will not be permitted.
  - The Field Splice 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'-0" radius around each bolt.

**NOTE:**
The Contractor prior to fabrication of posts provide electrical grounding at pole foundations per ADOT Standard Specification Section T32-3.03.
Handrail Length (C) ... 

**NOTES:**

- Handrails shall extend from end of sign cabinet to nearest field splice as shown for both catwalks. Maximum support post spacing shall be 4'-4". Minimum support post spacing shall be 2'-2". Maximum three spaces per rail section. Minimum two support posts per rail section. Minimum handrail length = 6'-6".
- Handrail to be 1 1/4"x 1 1/4"x 3/8" square steel tubing weighing 2.7 plf.
- Provide eye bolts at ends of top handrails for tubular structure and dead loads of sign cabinet, catwalks and attachments. For spans other than shown, interpolate for "X" and "Y" dimensions.

See SD 9.20 (3 of 5) for CAMBER DIAGRAM and camber notes.
Notes:

- Welded grating shall meet the standard requirements of ANSI/NAAMM W8-08. Grating shall be \( 1\frac{1}{4}'' \times \frac{1}{8}'' \) bearing bars at \( 1\frac{3}{4}'' \) centers and cross bars at \( 4'' \) centers.
- All grating to have \( 1\frac{1}{4}'' \times \frac{1}{8}'' \) banding bars at both ends.
- Weld bearing bars to banding bars with \( \frac{1}{16}'' \) fillet weld, one side every second bar, and as shown in Detail C (Single Post).
- All grating to be straight and true after fabrication. Grating shall be galvanized.
- See Table for grating dimensions.

Grating Dimensions:

<table>
<thead>
<tr>
<th>Grate No.</th>
<th>Length</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-1</td>
<td>11'-2</td>
<td>3'-31/2</td>
</tr>
<tr>
<td>G-2</td>
<td>Variès*</td>
<td>3'-31/2</td>
</tr>
</tbody>
</table>

* Maximum length of G-2 is 10'-9".
** Variès in interior grating sections must vary the width of grating with \( 4\frac{3}{8}'' \times 8\frac{3}{16}'' \) or \( 12\frac{1}{8}'' \times 15\frac{1}{8}'' \) if required.

See Table for grating dimensions.