**VIBRATION WARNING**

Local areas of high and low stresses and shapes can occur in the structure due to the mechanical characteristics of the loads on the structural members. This can lead to excessive vibrations under certain conditions.

- **General:**
  - Overloading or operating the structure beyond its design limits can cause excessive vibrations.
  - Regular maintenance and inspection are necessary to ensure the structure remains stable.

- **Installation:**
  - Proper installation with adequate support and grounding is crucial to minimize vibrations.
  - If excessive vibrations are observed, further investigation or adjustments may be required.

**ARM WELD DETAIL**

- Longitudinal Seam Weld:
  - 100% penetration within 6" of circumferential base weld.

**ARM COUPLING DETAILS**

- 1 1/2" Ela, Thru-Bolted Coupling:

**BRACKET ASSEMBLY**

- Stainless steel bands for Cable.
- 2" x 2" Brackets and 3" x 4" x 1/4" Sheet Metal.
- "Hi-Brackets" or "Easy Bracket" with 1 1/2" Ela Threaded Coupling.

**SLIP JOINT DETAIL**

- Slip joint is permissible for pipe lengths up to 10'.
- Slip joint shall be made in the shop but may be batch welded and shipped disassembled.

**SHEET 2 OF 3**

Texas Department of Transportation
Traffic Operations Center
TRAFFIC SIGNAL SUPPORT STRUCTURES
DUAL MAST ARM ASSEMBLY
(80 MPH WIND ZONE)

DMA-80 (2) - 12
<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mast Pole</td>
<td>10 ft x 2 in</td>
</tr>
<tr>
<td>Base Plate</td>
<td>12 in x 12 in</td>
</tr>
<tr>
<td>Anchor Bolt</td>
<td>M12 x 150 mm</td>
</tr>
<tr>
<td>Ground Rod</td>
<td>5/8 in x 8 ft</td>
</tr>
<tr>
<td>T-Post</td>
<td>2 in x 5 ft</td>
</tr>
</tbody>
</table>

**Quantity**: 1 each of each component as listed above.

*Note:* Components are subject to change based on site-specific requirements and availability.