**STANDARD ROADWAY**

**ALUMINUM LIGHT POLE**

- **Fixture Arm Length**
- **Pole Top**
  - 6" Pole top with Cast Aluminum Cap attached to pole with 3 Stainless Steel Set Screws (Typ.)
- **Wind Design Height at Fixtures**
  - For Fixture Arm Details see Sheet 3 (Typ.)
- **Transition zone from round shape to oblong shape**
- **Wedge Height**
- **Transition zone from round shape to oblong shape**

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**MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE**

- **ON CYLINDRICAL FOUNDATION**
- **On Spread Footing Foundation**
- **Transition zone from round shape to oblong shape**
- **Wedge Height**

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**2010 Interim Design Standard**

**STANDARD ALUMINUM LIGHTING**

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ALUMINUM LIGHT POLE GENERAL NOTES

2) All tables were developed assuming the following Luminaire properties: Effective Projected Area of 1.55 ft² (includes wind drag coefficient) and 75 pounds (max).
4) See Standard Index No.17500 for grounding and wiring details.
5) Light Pole Specifications:
   c. For pole and arm: 50 grit satin finished.
   e. Aluminum Caps and Covers: ASTM D-26139-F.
   f. Weld Metal: ER4043.
   g. Stainless Steel Fasteners and Hardware: AISI Grade 304.
   h. Welded structural angle 1.63” (max) for electrical cable.
6) Provide “J”, “S”, or “C” hook at top of pole for electrical cable.
7) Furnish each pole with a 2”x4” (max) aluminum identification tag. Submit details for approval. Secure to Transverse welds are allowed only at the base.
   a. Poles: ASTM B221.
   c. Bearing Plates for Anchor Bolts: ASTM A775 Grade 36 or ASTM A572.
8) Provide “J” hook at top of pole for electrical cable.

ROADWAY ALUMINUM LIGHTING POLE NOTES

1) Foundation Materials:
   a. Reinforcing Steel: ASTM A615 Grade 60.
   b. Concrete: Class I.
   c. Anchor Bolts: ASTM F1554 Grade 55 with ASTM A563 Grade DH nuts and ASTM F436 Type I washers (all galvanized in accordance with ASTM F2329).
2) See Standard Index No.17500 for grounding and wiring details.
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5) Light Pole Specifications:
   c. For pole and arm: 50 grit satin finished.
   e. Aluminum Caps and Covers: ASTM D-26139-F.
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8) Provide “J” hook at top of pole for electrical cable.

PULL BOX NOTES

1. Fabricate pull boxes from ASTM A 36 steel and hot-dip galvanized in accordance with ASTM A 123 after fabrication. Aluminized sheets shall be cold rolled steel and ground smooth. Provide watertight cover with neoprene gasket and secure cover with galvanized screws.
2. Completed pull boxes and conduit risers are incidental to the cost of concrete barrier wall.
Revisions:

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Sheet No. 2 of 8

STANDARD ALUMINUM LIGHTING

ARM TABLE

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<thead>
<tr>
<th>WRO</th>
<th>ARM LENGTH (FT)</th>
<th>UPPER ARM D.O. (IN)</th>
<th>WELD (IN)</th>
<th>LOWER ARM D.O. (IN)</th>
<th>WELD (IN)</th>
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<tr>
<td>130</td>
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</table>

* Increase member wall thickness as necessary to meet minimum requirements of the welding code for the connection weld sizes shown in the arm and pole tables.

ARM & DAMPER DETAILS:

At all pole connections, provide arm tube extrusions with dimensions as shown in the ARM SECTION and as tabulated in the ARM DATA Tables. Uniformly transition elliptical section to a cylindrical section at the arm connection.

The fabricator may substitute elliptical cross sections other than those tabulated, provided the section properties about the vertical axis and the area of the section exceed that of the required section, and provide minimum wall thickness of 0.015 nominal within the aluminum association tolerances. The outside diameter about the minor axis should be held at 2.38" at the upper and lower arms.

ARM TUBE EXTRUSIONS NOTES:

For the pole connections, provide arm tube extrusions with dimensions as shown in the ARM SECTION and as tabulated in the ARM DATA Tables. Uniformly transition elliptical section to a cylindrical section at the arm connection.

The fabricator may substitute elliptical cross sections other than those tabulated, provided the section properties about the vertical axis and the area of the section exceed that of the required section, and provide minimum wall thickness of 0.015 nominal within the Aluminum Association tolerances. The outside diameter about the minor axis should be held at 2.38" at the upper and lower arms.