LIGHTING STANDARDS

GENERAL NOTES
1. Design and fabricate all shafts to support a mast arm 22' long with luminaires. Assume each shaft fixture weighs 60 lbs. and has an effective projected area of 2.8 SF. Assume each Cobra head weighs 55 lbs. and has an effective projected area of 1.2 square feet. With this dead load, limit the angular rotation of the pole top to 1° 40’ maximum.

2. Weld size to be determined by manufacturer.

3. Mounting height, if specified in the plans, refers to the height of luminaire above the finished roadway surface. Adjust each pole's shaft length to maintain this difference in elevation whenever slope and/or offset varies.

4. Minimum outside diameter at the top of pole equals 3'-7/8'. Pole diameter shall taper uniformly from the top of pole to the base plate, with a maximum taper rate of 0.15" per foot.

5. Mast arm rise may vary ±0.5 ft from the values listed in the table.

6. Locate the handhole at 90 degrees to the mast arm on the side of pole downstream from traffic flow.

7. Furnish all poles with a j-hook to support the illumination top conductors. Furnish all mast arm poles with a removable raincap.

8. Frangible couplings shall be NHMR 350, Test Level 3 compliant and installed in accordance with the manufacturer's written instructions. A WASH compliant device does not exist at this time. See SPDR for more info.

9. Frangible couplings shall be installed into flush mounted female anchors so that no fixed hardware extends above the foundation top.

10. Install all components of the breakaway support system in accordance with the manufacturer's written instructions.

11. Fabricate the skirt from four pieces of 0.06" thick 3003 h-14 aluminum sheet. Bend each plate to provide corners with a 3/4" radius. Assemble the skirt with 910 x 3/8" self-tapping stainless screws or pop rivets. The assembled skirt measures about 12'-7/8" square.