GENERAL NOTES:

1. Poles are designed to support the following:
   A. Luminaire Effective Projected Area (EPA): 1.55 SF
   B. Weight: 75 lb.

2. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not included in the Plans.

3. Materials:
   A. Pole, Pole Connection Extrusions and Arm Extrusions: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
   B. Bars, Plates, Stiffeners and Backer Ring: ASTM B221, Alloy 6063-T6
   C. Caps and Covers: ASTM 0-26, Alloy 319-T6
   D. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36
   E. Aluminum Weld Material: ER 4043
   F. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-76
   G. Bolts, Nuts and Washers: ASTM A563 Grade 7, Type 1
   H. Anchor Bolts, Nuts, and Washers:
      - Anchor Bolt: ASTM A193 Grade B7
      - Nuts: ASTM A194 Grade 2B Heavy-Hex
      - Washers: ASTM A828
   I. Stainless Steel Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
   J. Identification Tag: (Submit details for approval.)
   K. Concrete: Class 2
   L. Reinforcing Steel: Specification 415

4. Fabrication:
   A. Weld Arm and Pole (Alloy 6063) in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding.
   B. Free pole. The fabricator's Department-approved QC Plan must contain the following information prior to tempering after welding.
   C. Roadway Light Pole Taper: Taper as required to provide a 6" O.D. round top with an 11" x 7" O.D. oblong base.

5. Coatings/Finish:
   A. Pole and Arm Finish: 50 grit satin rubbed.
   B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM A563
   C. Hot Dip Galvanized EJB and other steel items including poles and plate washers: ASTM A123

6. Construction:
   A. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
   B. Frangible Base, Base Shoe, and Clamp:
      - Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required
        a. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under
        b. NCHRP Report 350 Guidelines (e.g. Axon Foundry TB1-17).
      - Do not erect pole without clamp attached.

7. Embedded Junction Box (EJB): Install EJBs per Note 4 and in accordance with Specification 625, as shown on the following Sheets.

8. Wind Speed by County:
   - 120 MPH
   - 140 MPH
   - 160 MPH
     - Broward, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.

INDEX

1. Financial Project ID
2. Pole Height
3. Manufacturer's Name
4. Pole Type
5. Luminaire Effective Projected Area (EPA)
6. Weight
7. Construction Details
8. Wind Speed by County

INDEX

STANDARD PLANS
FY 2019-20
STANDARD ALUMINUM LIGHTING
INDEX
715-002
1 of 8
**DANGER**

**HIGH VOLTAGE**

**DO NOT TAMPER**

---

**STANDARD ROADWAY ALUMINUM LIGHT POLE W/ARM**

- Pole
- Finished Grade
- 2'-6" Ø Concrete Foundation (See Details on Sheet 4)
- Internal Vibration Damper (See Details on Sheet 4)

**STANDARD ROADWAY ALUMINUM LIGHT POLE W/TOP MOUNT**

- Pole
- Finished Grade
- Transformer Base
- Fixture Arm Length
- 2'-6" Ø Pole top with Cast Aluminum Cap attached to pole with 3 Stainless Steel Set Screws (Typ.)

**MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE ON CYLINDRICAL FOUNDATION**

- Pole
- Finished Grade
- Transformer Base
- 4" x 6" (Min.) Handhole with reinforced frame and cover with hex head screws.
- Begin Pole Taper
- 2'-6" Straight

**MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE ON SPREAD FOOTING FOUNDATION**

- Pole
- Finished Grade
- Transformer Base
- 4" x 6" (Min.) Handhole with reinforced frame and cover with hex head screws.
- Begin Pole Taper
- 2'-6" Straight

---

**ELEVATIONS**

**SECTION A-A**

- Pole
- Internal Vibration Damper
- Transition zone from round shape to oblong shape
- Finished Grade
- 8'-6" (Min.) Handhole with reinforced frame and cover with hex head screws.
VIBRATION DAMPER ELEVATION

VIEW B-B

VIEW C-C

HIGH TEMP VINYL CAP DETAIL

ARM & DAMPER DETAILS

ARM TUBE EXTRUSIONS NOTES:

At the pole connections, provide arm tube extrusions with dimensions as shown, uniformly transitioning 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 equal or exceed that of the required section, and provide minimum wall thickness of 1/8" nominal and within the Aluminum Association Tolerances.

The outside diameter about the minor axis shall be held at 2½" at the upper and lower arms.
NOTE:
1. For locations of Bearing Plates, Base Plates and Detail "A" see Sheets 6 & 7.
2. Double Nuts: The bottom hex nut may be substituted by a half-height "jam" nut.
3. Provide individual nut covers (not shown) for each bolt.
4. Pole wall thicknesses shown are nominal and shall be within the Aluminum Association Tolerances. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.

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REVISION DESCRIPTION:

LAST REVIEW of STANDARD PLANS FY 2019-20 SHEET INDEX

STANDARD ALUMINUM LIGHTING INDEX 715-002 6 of 8
#5 Bars, 6'-10" long (Typ.)
1" Ø Anchor Bolts (8 Req'd)

1" Exp. Jt. Material

See Foundation Table

Bearing Plate

4 - 1 1/4" Ø Anchor Bolts

Bars 5V @ 8" Sp.

Max. (Typ.)

9 1/2" Cover (Typ.)

Anchor Bolts

Base Plate

Construct. Jt. (Typ.)

See Roadway Plans

Foundation Depth (Typ.)

Foundation Depth (See Foundation Table)

Bearing Plate

END VIEW

VIEW B-B
(Anchor Bolts and Barrier Longitudinal Steel & Stirrups Not Shown)

SECTION C-C

NOTES:
1. For Bearing Plate and Base Plate Details, see Sheet 5.
2. For connections to adjacent Median Barrier, use the Dowelled joint detail per Index 521-001. Alternatively, a continuous concrete pour or a construction joint may be substituted; these alternatives require the Median Barrier's longitudinal steel to lap a minimum of 2'-0" with the longitudinal steel shown herein.

Cylindrical Foundation Details for Median Barrier Mounted Aluminum Light Pole

Foundation Table

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<th>Design Mounting Height (FT)</th>
<th>Foundation Depth (FT)</th>
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Foundation Table

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<tr>
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</tbody>
</table>
**DETAILS FOR TRAFFIC RAILING (MOUNTED ALUMINUM LIGHT POLE)**

**ELEVATION**

- **Bars 5R and 5W** @ 1'-0"
- **Bars 5S**
- **2Ø Conduit**
- **Optional Const. Joint**
- **Supplemental #5 Bars**
- **EJB "B"**
- **See Detail 'A'**
- **Sheet 5**
- **Optional Const. Joint**

**PLAN**

- **Bars 5R and 5W** @ 1'-0"
- **Bars 5S**
- **1Ø Conduit**
- **4 - 1½Ø Anchor Bolts**
- **Bars 5S**
- **2Ø Conduit**

**SECTION D-D**

- **1Ø Conduit**
- **Bearing Plate**
- **Supplemental #5 Bars**
- **See Index 630-010 for Conduit, EJB and supplemental reinforcing details**
- **BAR SW**
- **BAR 5R**
- **2'-0"**
- **10'-0"**
- **3'-0"**
- **1'-0"**
- **1'-0"**
- **3'-6" Min.**
- **7'-0" Min.**

**NOTES:**
1. For Base Plate Details, Bearing Plate Details, and Detail 'A', see Sheet 5.
2. See Index 521-426 for details of adjacent Traffic Railing (Median 36" Single-Slope) and for angles 'A' and 'B'.
3. See Index 630-010 for Conduit, EJB and supplemental reinforcing details.