PLAN VIEW

ELEVATION VIEW

CROSS REFERENCE:
For Detail "A", Anchor Plate Detail and Light Pole Pedestal Notes, see Sheet 3.

NOTE: Anchor Bolt, Nuts, Washers and Anchor Plate are dashed for clarity.

Bars 4F4 (pairs) (Shift as required to clear Traffic Railing, Approach Slab or Bridge Deck Reinforcing) (Typ.)
Bars 4F5 (pairs) (Shift as required to clear Anchor Bolts)
Anchor Plates (dashed lines)
Construction Joint Permitted
Bars 4F4 (pairs) (Shift as required to clear Traffic Railing, Approach Slab or Bridge Deck Reinforcing) (Typ.)
Bars 4F1 (pairs) (Shift as required to clear Anchor Bolts)
PLAN VIEW

ELEVATION VIEW

TYPICAL SECTION AT LIGHT POLE PEDESTAL FOR FLAT SLAB OR BRIDGE DECK THICKNESS AT COPING 1'-5½" OR GREATER

TYPICAL SECTION AT LIGHT POLE PEDESTAL FOR APPROACH SLAB OR BRIDGE DECK THICKNESS AT COPING 1'-5½" OR GREATER

LIGHT POLE PEDESTAL FOR APPROACH SLAB OR BRIDGE DECK THICKNESS AT COPING 1'-5½" OR GREATER

NOTE: Anchor Bolt, Nuts, Washers and Anchor Plate are dashed for clarity.
**ANCHOR PLATE DETAIL**

- Concrete Pedestal Surface
- Sloped Longitudinally with Profile Grade and Transversely with Cross Slope

**DETAIL "A"**

- Anchor Bolts (See Notes 4 & 5)
- Concrete Pedestal Base Plate Level
- Anchor Plate
- Wire Screen (See Spec. 649-6)

**ANCHOR BOLT DESIGN**

- Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index 17515 and the following design limitations:
  - **Load Case 1**: See Table 1
  - **Load Case 2**: 150 mph Design Wind Speed, 15' arm length, 50' Design Mounting Height with a 75' bridge deck height above natural ground, or MLW.

**Wire Screen**

- ASTM A709 (Grade 36) or ASTM A36

**Nuts**

- ASTM A563 Grade A, Heavy-Hex

**Washers**

- ASTM F436 Type 1

**Anchor Bolts**

- ASTM F1554 Grade 55

**Anchor Bolt Diameter**

- 1" Ø (Load Case 1), 1 1/2" Ø (Load Case 2)

**LEVELING NUT**

- 1 1/2" Ø bolt hole circle

**ANCHOR PLATE**

- Washers: ASTM A709 (Grade 36) or ASTM A36

**Light Pole Pedestal Notes**

1. Concrete and Reinforcing Steel required for the construction of the Pedestal shall meet the same requirements as the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.

2. Light Pole Pedestal may be used with the following:
   - Index No. 420 - Traffic Railing (32" F Shape), Index No. 422 - Traffic Railing (40" Vertical Shape), Index No. 423 - Traffic Railing (32" Vertical Shape), Index No. 424 - Traffic Railing (Corral Shape), Index No. 425 - Traffic Railing (42" F Shape), Index No. 426 - Pedestrian/Bicycle Railing, Index No. 427 - Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape), or Index No. 3210 - Traffic Railing (Noise Wall Bridge).

3. Unless otherwise noted, all reinforcing steel dimensions shown in tables and sections are shown in all views and sections. The Pedestal details for other Traffic Railings or Pedestrian/Bicycle Railing are similar.

**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

**BILL OF REINFORCING STEEL**

- **MARK**
- **SIZE**
- **NO. REQD.**
- **LENGTH**
- **NOTES**

- **1**
- **4**
- **16**
- **5'-8"**
- c

- **2**
- **2**
- **4**
- **4'-8"**
- c

- **3**
- **3**
- **4**
- **4'-2"**
- a, c

- **4**
- **4**
- **8**
- **8'-3"**
- b, c

- **5**
- **4**
- **4**
- **6'-7"**
- c

- **6**
- **4**
- **8**
- **6'-0"**
- -

- **7**
- **2**
- **2'-0"**
- -

- **11**
- **4**
- **8**
- **4'-8"**
- -

- **12**
- **4**
- **12**
- **8'-7"**
- d

**ESTIMATED LIGHT POLE PEDESTAL QUANTITIES PER LIGHT POLE PEDESTAL**

- **ITEM**
- **UNIT**
- **QUANTITY**

- Concrete Pedestal Thickness
  - CF/in. 0.040
- Reinforcing Steel
  - LB 195 (182)

**REVISION HISTORY**

- DESCRIPTION: 2016 Design Standards
- INDEX NO.: 21200
- SHEET NO.: 3 of 3
- LAST REVISION: 07/01/15


**PAYMENT:** The cost of Wire Screen, Anchor Bolts, Nuts, Washers and Anchor Plates shall be included in the Bid Price for Light Poles. The cost of all labor, concrete and reinforcing steel for the construction of the Pedestals, EJB, and Miscellaneous Hardware required for the completion of the Electrical System, shall be included in the Bid Price for the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.

**REVISION HISTORY**

- DESCRIPTION: 2016 Design Standards
- INDEX NO.: 21200
- SHEET NO.: 3 of 3
- LAST REVISION: 07/01/15


**PAYMENT:** The cost of Wire Screen, Anchor Bolts, Nuts, Washers and Anchor Plates shall be included in the Bid Price for Light Poles. The cost of all labor, concrete and reinforcing steel for the construction of the Pedestals, EJB, and Miscellaneous Hardware required for the completion of the Electrical System, shall be included in the Bid Price for the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.

**REVISION HISTORY**

- DESCRIPTION: 2016 Design Standards
- INDEX NO.: 21200
- SHEET NO.: 3 of 3
- LAST REVISION: 07/01/15