**CONVENTIONAL LIGHTING**

**DESCRIPTION:**

**REV. NO.**

**INDEX SHEET NO.**

**DEVELOPMENT COMPANY**

**DESIGN STANDARDS**

**2016**

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### METAL POLE WIRING DETAIL

- **Strain Relief Fitting**
- **Breakaway Fuseholders**
- **Surge Protective Device (SPD)**
- **Equipment Ground Conductor**
- **PVC Conduit with Type TC Cable**
- **1" PVC conduit with #6 Solid Copper Ground Wire (Bare)**
- **#6 Solid Copper Ground Wire (Bare)**
- **#6 TW Green Bonding Ground**
- **#6 TW Green Bonding Ground**
- **Access Panel**
- **Grounding Lug**
- **Pole Ground Conductor**
- **Ground Rod**
- **Pole Wire Detail**
- **PVC Conduit**
- **Luminaire Cable**
- **Breakaway Fuseholders with solid copper slugs. Slugs to be same size as 10 Amp fuse.**
- **Breakaway Fuseholders on Neutral side with solid copper slug (Line To Neutral Service). Slugs to be same size as 10 Amp fuse.**
- **Breakaway Fuseholders on 480V side with a 10 Amp slow blow fuse for line to line service both lines to be fused.**

**NOTES:**

1. **Barrier wall or bridge mounted poles:** The wiring shall be in accordance with Section 992 of the Standard Specifications.
2. **Provide cable length to remove fuseholders from transformer base, pole base or pull box for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders if the pole breaks away. Pull excess cable into pull box tightly strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.**
NOTES:
1. Use compacted select material in accordance with Index 505.
2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is 13' x 24"; others approved under Section 635 of the Standard Specifications may be used.
5. Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around pull boxes shall be included in the price of pull box.
NOTES:
1. Use compacted select material in accordance with Index 505.
2. Concrete shall be Class NS with a minimum strength at 28 days of \( f_{c} = 2.5 \text{ ksi} \).
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is 1'-7" x 2'-4"; others approved under Section 835 of the Standard Specifications may be used.
5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.
7. The expansion joint shall consist of 1/2" of closed-cell polyethylene foam expansion material. The top 1/2" of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting the requirements of Section 932.

Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.

Concrete shall be Class NS with a minimum strength at 28 days of \( f_{c} = 2.5 \text{ ksi} \).