

### **3 WIRE RETROFIT FOR DIRECT BURIED LIGHT POLE**

#### I. Quantity

The base bid shall include the indicated number of units to be retrofitted and hereinafter specified and located as shown on the drawings. One unit includes one light pole assembly.

#### II. Material

- a. Crimp Connectors - Use Burndy, YC8-C8 crimp connector for equipment ground conductor and Burndy YC4-C4 for inside hot and neutral splice kits.
- b. Fuse Kits – Use non-fused kit 65KIT Buchanan with connector link on neutral side and fuse kit 65KIT Buchanan with KTK 3amp fuse on hot side.
- c. Wire – Use #10 AWG, XHHW white, black and green wire from luminaire to pole base to pull box.
- d. Conduit – Use 1” PVC FLEX conduit SCH 40 and elbows from pull box to pole and 2” PVC SCH 40 elbows inside new pull box attached to existing in and out conduit if needed.
- e. Pull Box – The box and cover shall be polymer concrete with two penta head bolts and “ELECTRIC” logo on cover. Use Quasite PC1212HA00 for cover and PC1212DA12 for box, or Highline PHA121212H.

#### III. Installation – See attached drawing 01S0139

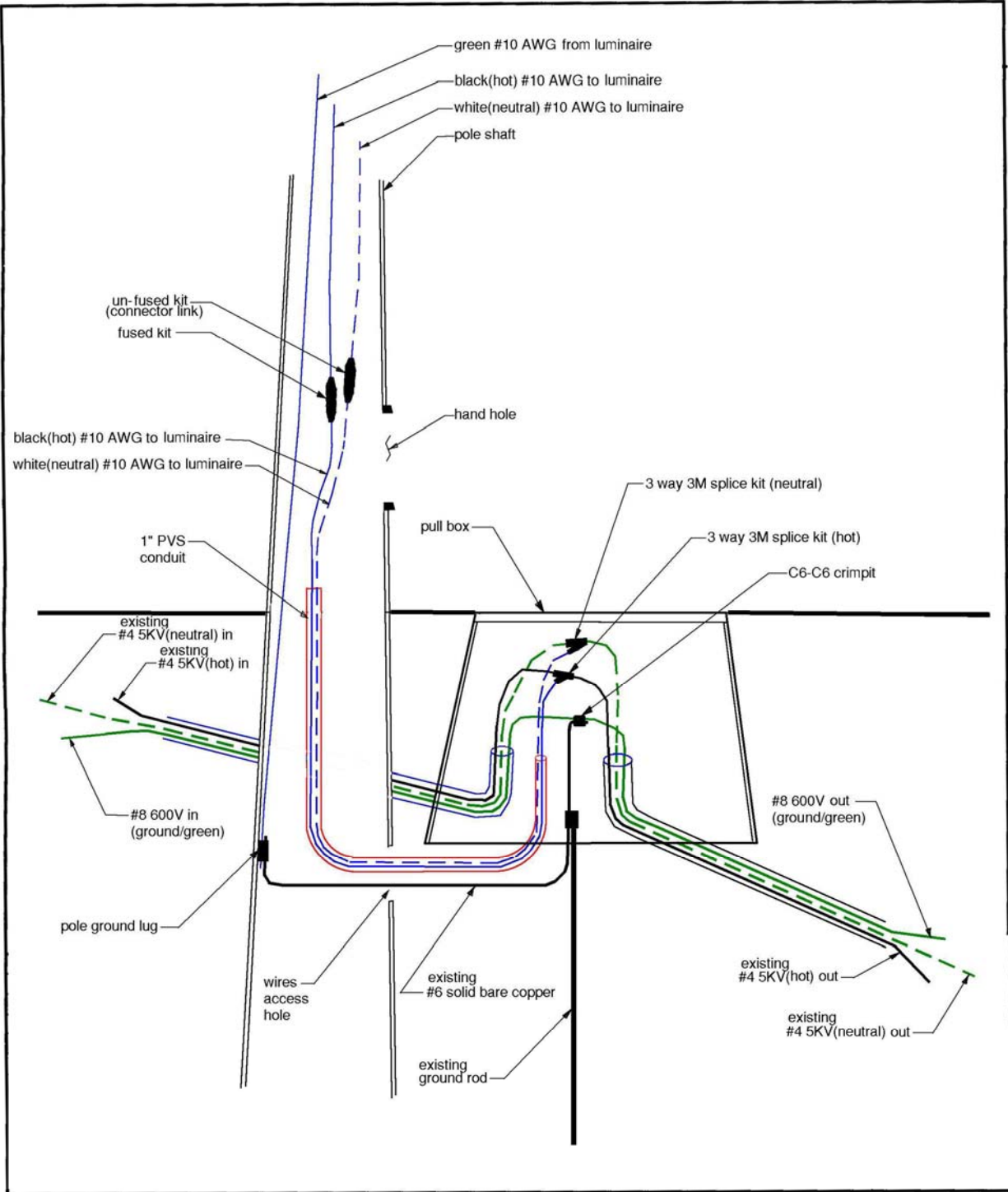
- a. Replace green splice box with new pull box.
- b. Check existing connections of ground wire at pole and ground rod, repair if needed.
- c. Install 1” PVC FLEX conduit to receive #10 wires from luminaire to pull box.
- d. Replace #10 white, black and green wires from luminaire to pull box with enough slack for maintenance.

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- e. Install new fuse kits as shown on attached drawing.
- f. Use existing #4-5KV cables slack to splice inside the new pull box.
- g. Install new green equipment grounding conductor and splice inside pull box.
- h. Install 2" PVC elbows, if necessary, as extensions of existing in and out conduit in pull box.
- i. Perform Electrical Tests as provided in Section 1001.18 of the City of Columbus Construction and Material Specifications book.

IV. Quotation

The street light circuit as herein specified shall be quoted for as a unit price in the appropriate section of this document. One unit includes one light pole assembly



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CITY OF COLUMBUS  
DIVISION OF POWER

01S0139