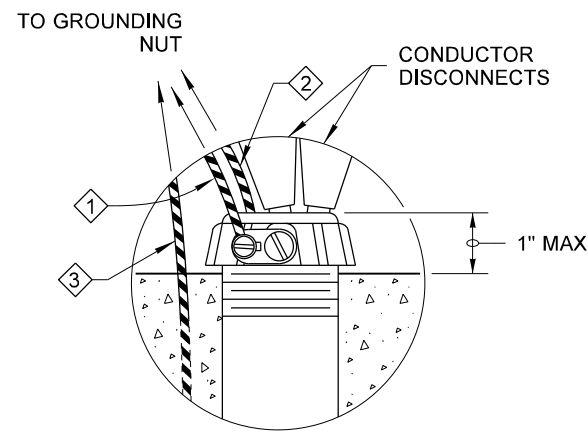
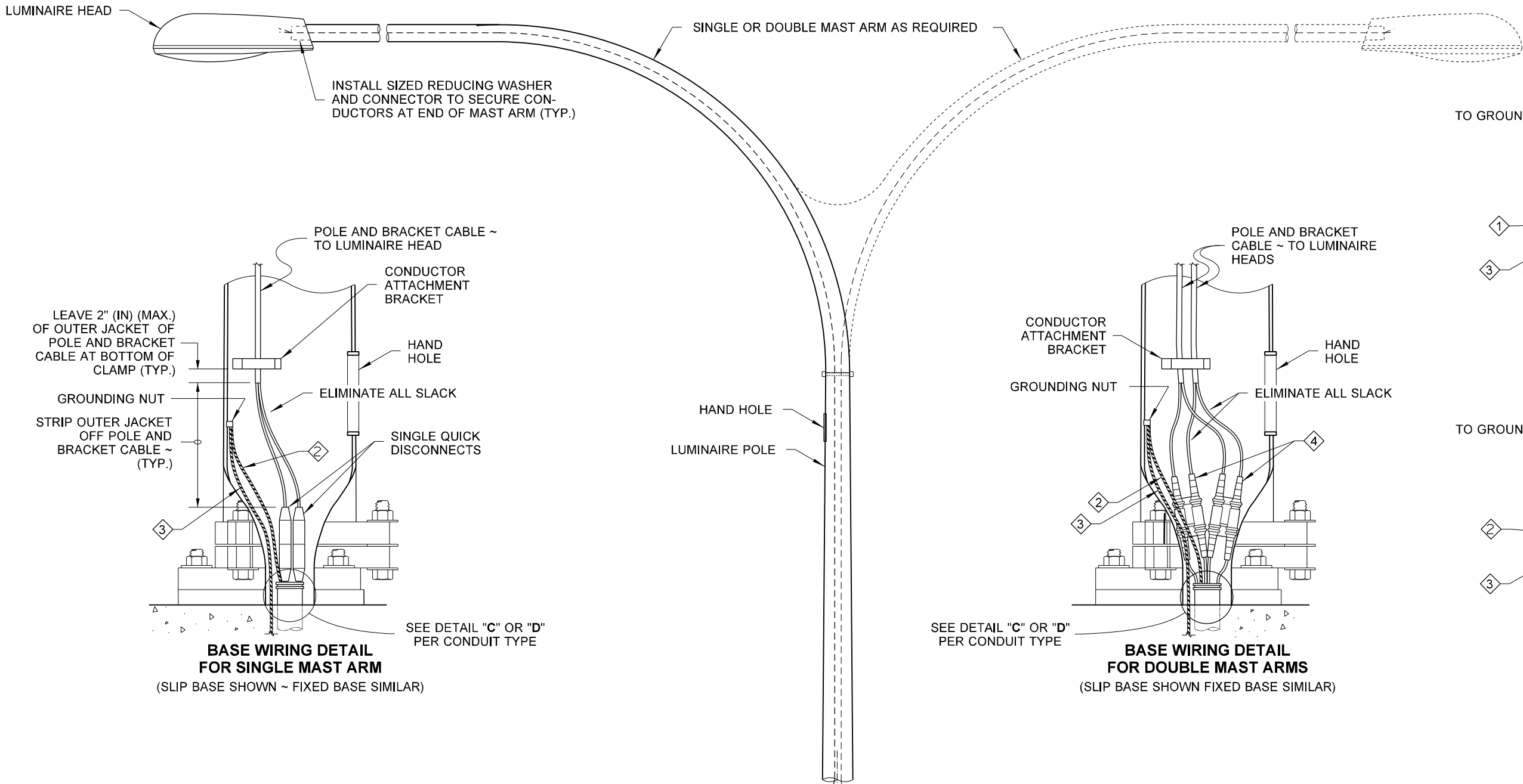
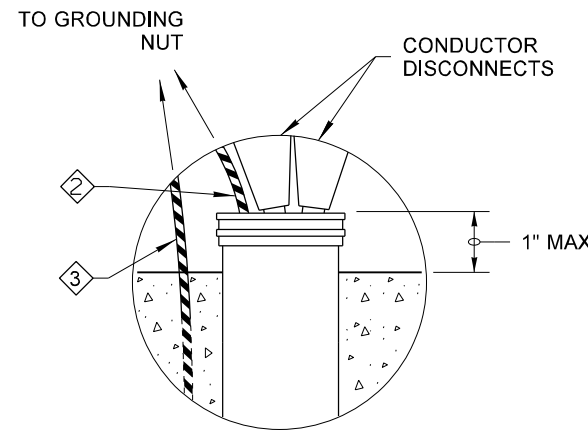


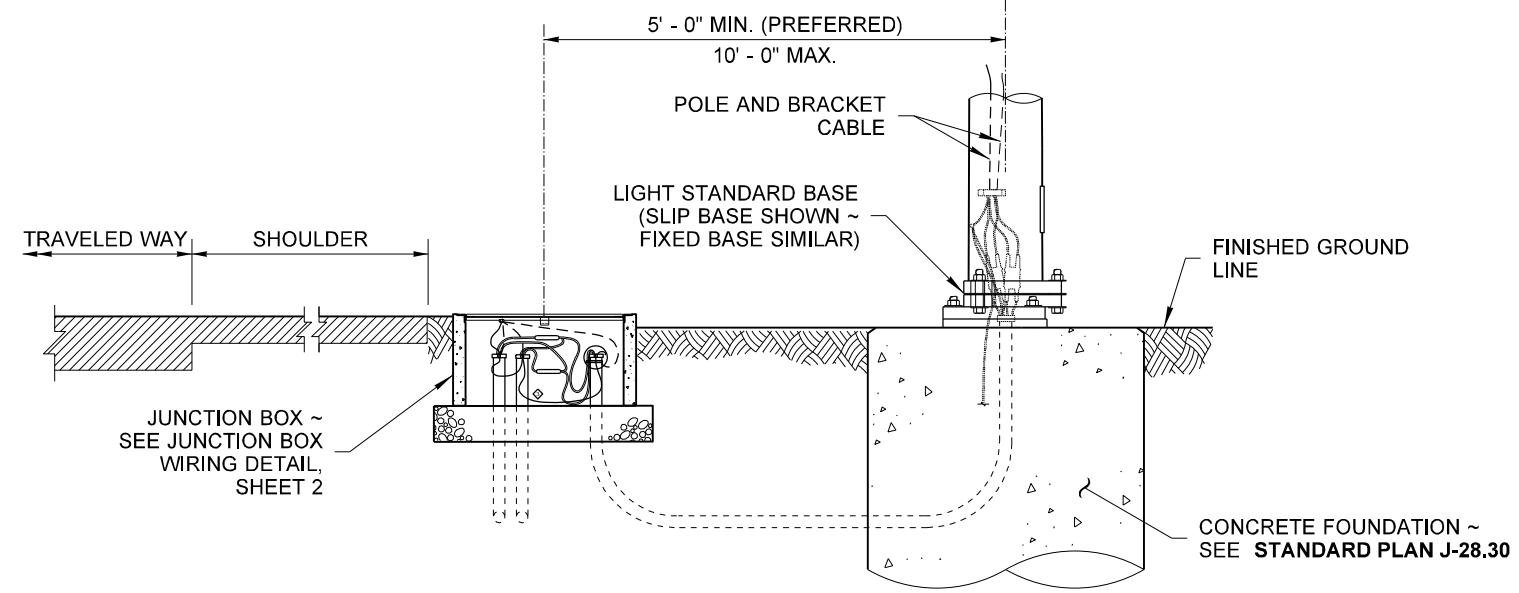
DRAWN BY: FERN LIDDELL



DETAIL "C"  
RMC CONDUIT

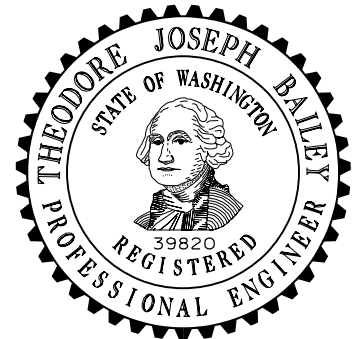


DETAIL "D"  
PVC CONDUIT



TYPICAL LOCATION OF JUNCTION BOX AND FOUNDATION

- 1 EQUIPMENT BONDING JUMPER ~ FROM RMC CONDUIT
- 2 EQUIPMENT GROUNDING CONDUCTOR
- NOTE: 1 AND 2 MAY BE SAME WIRE
- 3 EQUIPMENT BONDING JUMPER ~ FROM FOUNDATION
- 4 DOUBLE QUICK DISCONNECTS ~ PULL DOWN TIGHT TO CONDUIT (SHOWN LEFT UP FOR CLARITY)

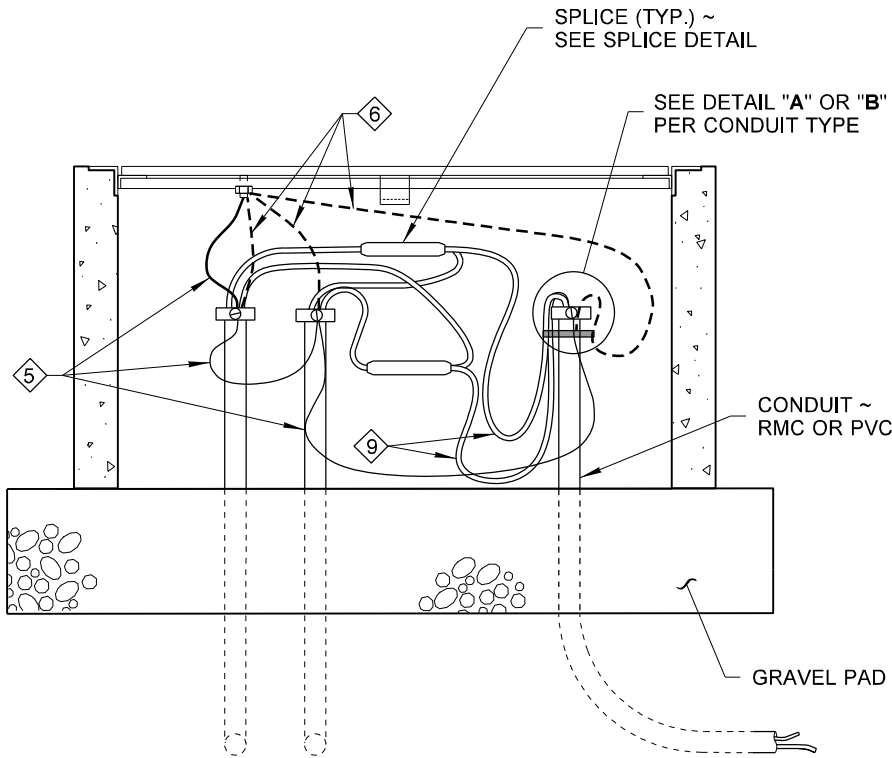


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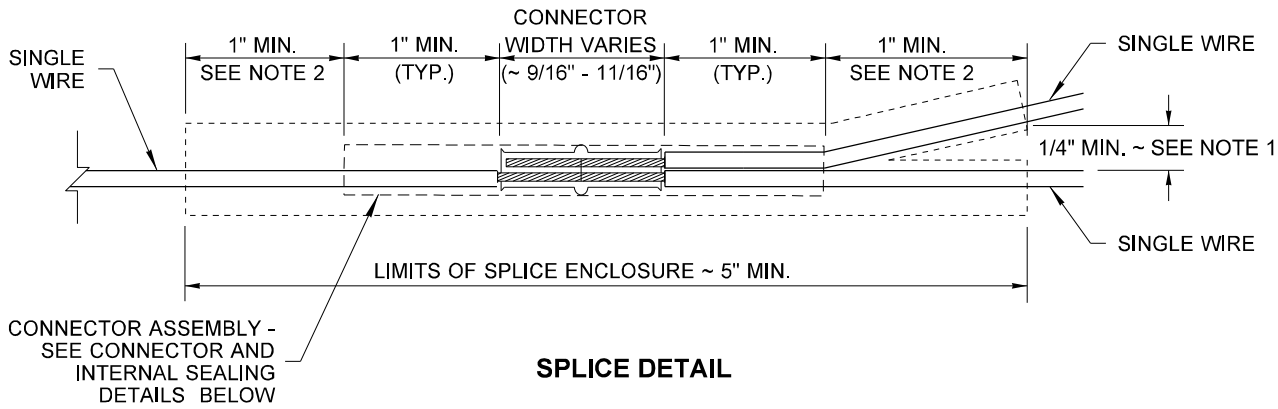
**STEEL LIGHT STANDARD  
WIRING DETAILS**  
**STANDARD PLAN J-28.70-03**

SHEET 1 OF 2 SHEETS

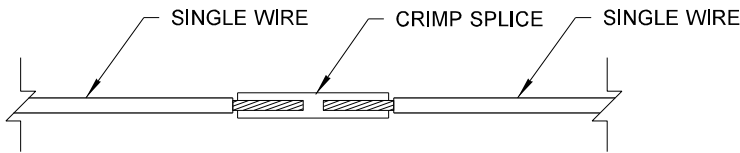
APPROVED FOR PUBLICATION  
Carpenter, Jeff  
Jul 21 2017 8:19 AM  
STATE DESIGN ENGINEER  
Washington State Department of Transportation



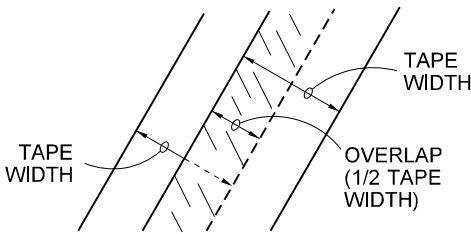
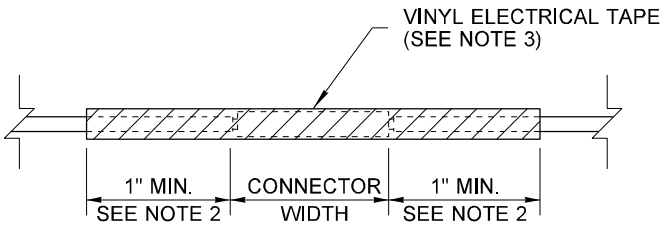
**JUNCTION BOX WIRING DETAIL**  
FOR GROUNDING REQUIREMENTS, SEE **STANDARD PLAN J-60.05**



**STEP 1 - CRIMP CONNECTION**



**STEP 2 - WRAP CONNECTION**



**TAPE OVERLAP DIAGRAM**

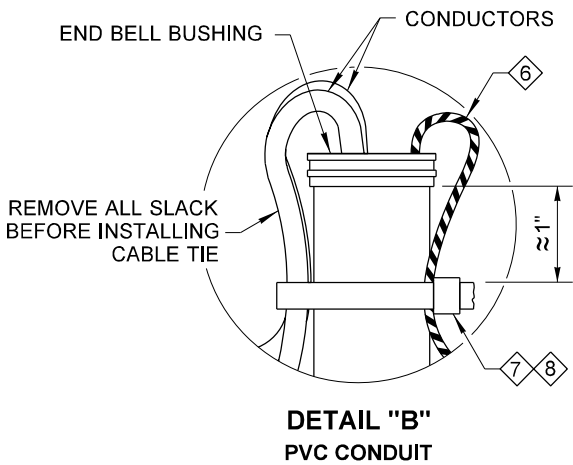
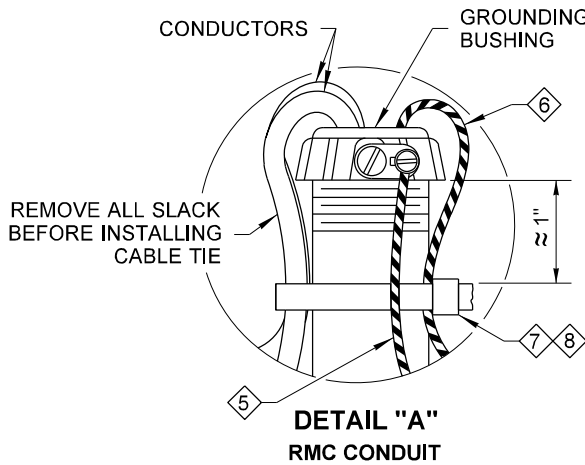
WHEN USING WRAPPED VINYL ELECTRICAL TAPE:

- INSTALL TWO LAYERS OF SPIRAL WRAPPED TAPE.
- EACH SPIRAL LAYER SHALL HAVE AN OVERLAP OF 1/2 OF THE TAPE WIDTH (SEE DIAGRAM ABOVE).

**CONNECTOR AND INTERNAL SEALING DETAILS**

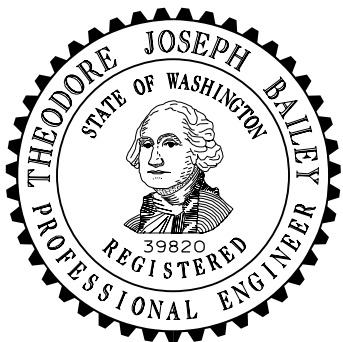
**NOTES**

1. Each wire shall be physically separated by at least 1/4" (in) so that sealing material can fill in between the wires; where heat shrink tubing is used for the outer splice enclosure, it shall meet one of the following requirements:
  - a. Have separate ports for each conductor ("WYE" or "X" shaped tubing). ~ or ~
  - b. Have rubber electrical mastic tape wrapped around each conductor to ensure a weather-proof seal. See Rubber Electrical Mastic Tape Installation Detail, **Standard Plan J-50.05**.
2. Heat shrink tubing shall extend a minimum of one inch onto the original wire insulation of each wire in the splice. Rigid splice enclosures shall be centered over the crimped connection.
3. Electrical tape used in splicing applications shall be 3/4" (in) wide, be UL listed under UL 510, and be CSA Certified under C22.2 NO. 197-M1983.
4. Crimp splices shall be installed with an approved crimping tool for the type and size of crimp splice used. Pliers and similar multi-purpose tools may not be used.



- 5 EQUIPMENT BONDING JUMPER ~ FROM RMC CONDUIT  
NOTE: 5 AND 6 MAY BE SAME WIRE
- 6 EQUIPMENT GROUNDING CONDUCTOR
- 7 CABLE TIE ~ 120 POUND TENSILE STRENGTH, BLACK

- 8 APPLICATION FOR FIXED BASE SIMILAR, EXCEPT NO CABLE TIE IS REQUIRED AT JUNCTION BOX
- 9 24" (IN) MIN. SLACK REQUIRED TO ALLOW QUICK DISCONNECTS TO BE PULLED OUTSIDE HAND HOLE 6" (IN) MIN.



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**STEEL LIGHT STANDARD WIRING DETAILS**

**STANDARD PLAN J-28.70-03**

SHEET 2 OF 2 SHEETS

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