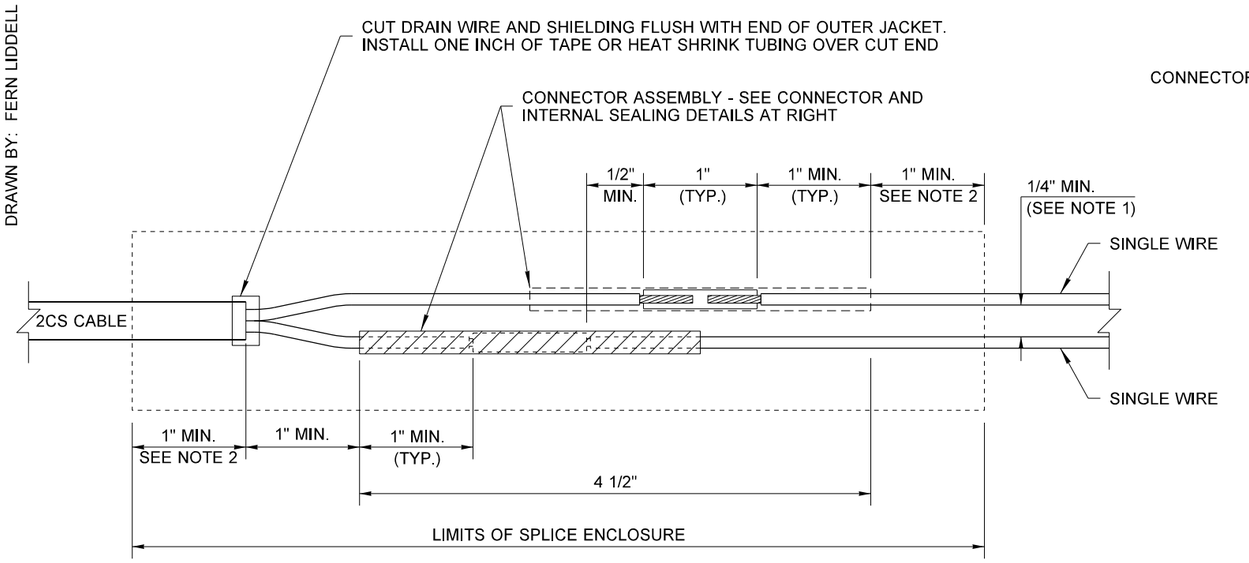
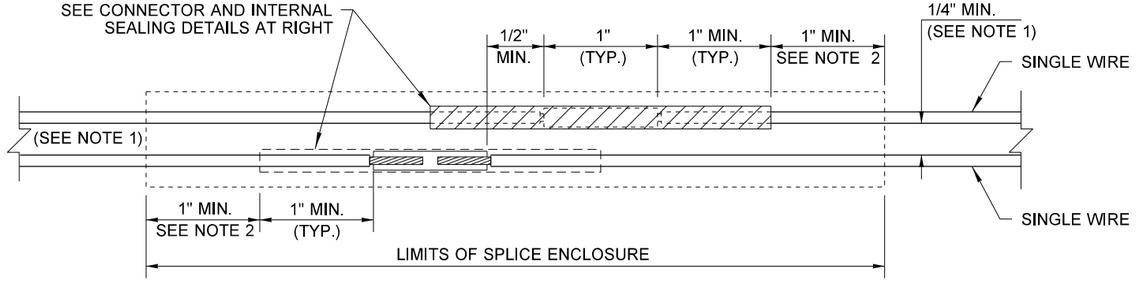
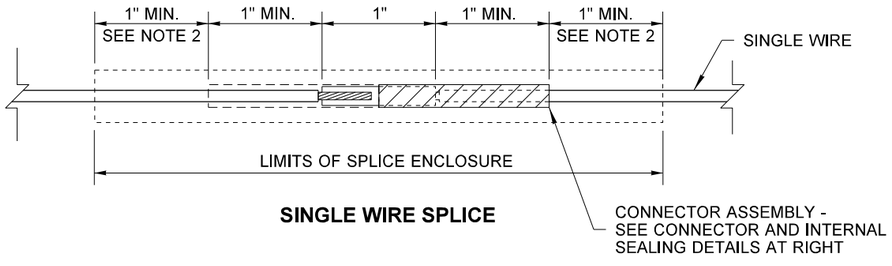
DRAWN BY: FERN LIDDELL



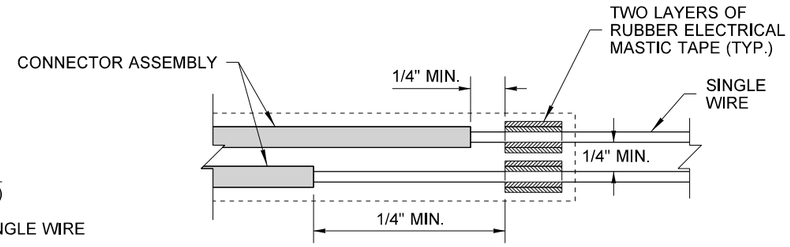
TWO CONDUCTOR SHIELDED TO TWO SINGLE WIRES



TWO SINGLE WIRE SPLICES IN SAME ENCLOSURE



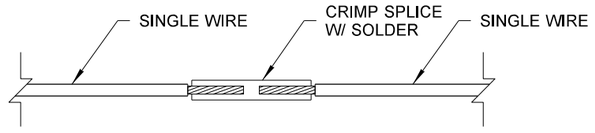
SINGLE WIRE SPLICE



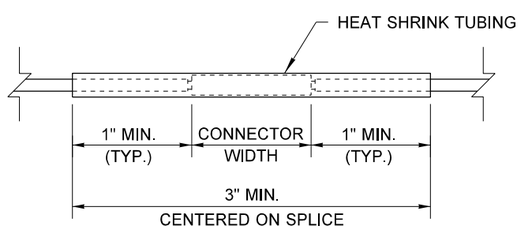
RUBBER ELECTRICAL MASTIC TAPE INSTALLATION DETAIL

CONNECTOR AND INTERNAL SEALING DETAILS

STEP 1: CRIMP AND SOLDER CONNECTION



STEP 2: SEAL / WRAP CONNECTION



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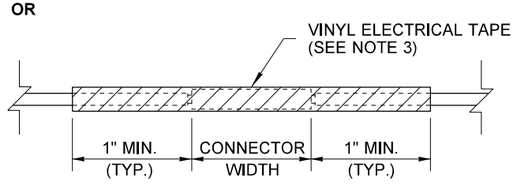

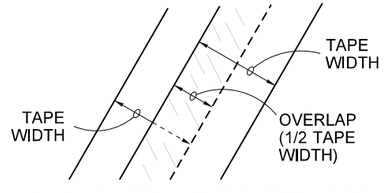

WHEN USING WRAPPED VINYL ELECTRICAL TAPE:

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

TAPE OVERLAP DIAGRAM

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.

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(s).

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. No more than two splices may be installed in the same splice enclosure.

5. 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.

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Jul 18 2017 9:55 AM
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LOOP SPLICE DETAILS

STANDARD PLAN J-50.05-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
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STATE DESIGN ENGINEER

Washington State Department of Transportation