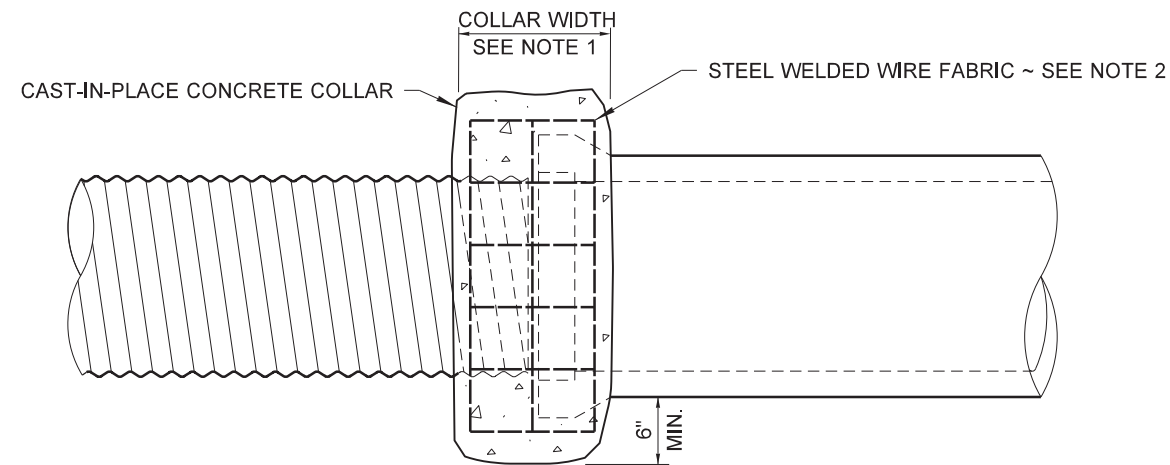
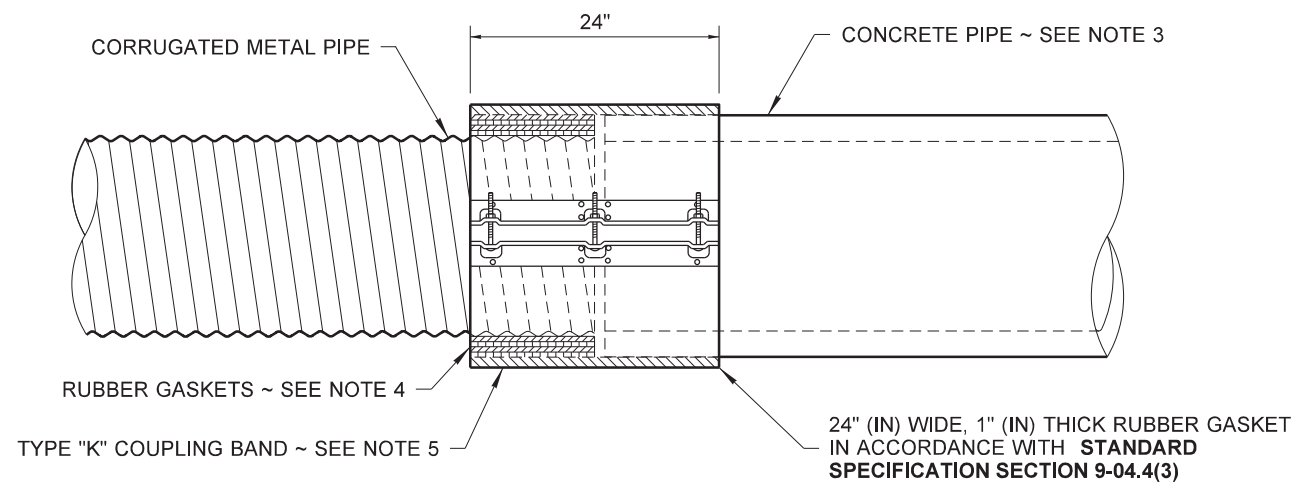


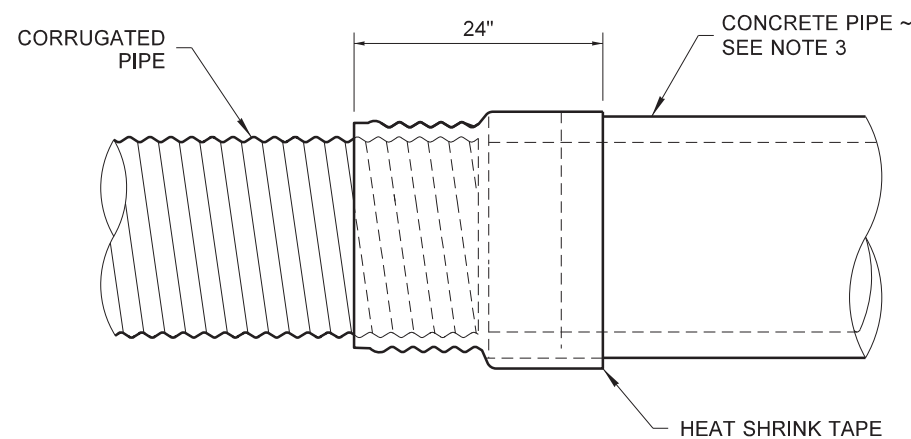
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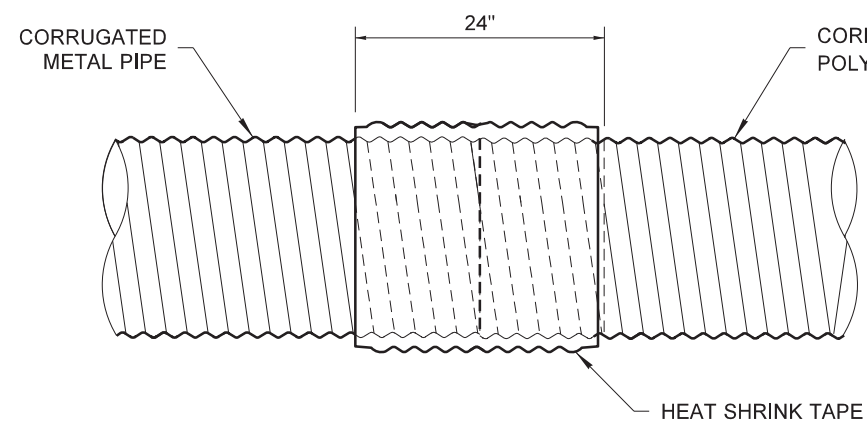
**CONCRETE COLLAR OPTION**



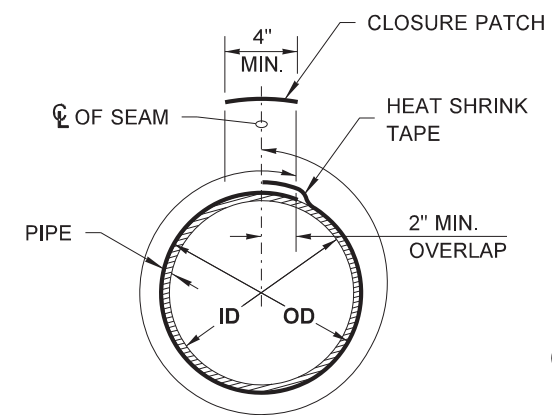
**COUPLING BAND OPTION**



**HEAT SHRINK OPTION  
CORRUGATED PIPE TO CONCRETE PIPE**



**HEAT SHRINK OPTION  
CORRUGATED METAL PIPE TO CORRUGATED POLYETHYLENE PIPE**



**SECTION DETAIL**

**NOTES**

1. The Concrete Collar width shall be one half of the outside pipe diameter of the largest pipe. The minimum Concrete Collar width shall be 12" (in). Concrete Collars may be used with all pipe materials and diameters. The Concrete Collar option shall only be used to extend existing pipes. Concrete shall be Commercial Concrete in accordance with **Standard Specification Section 6-02.3(2)**.
2. Steel Welded Wire Fabric shall be in accordance with **Standard Specification Section 9-07.7**. Install two wraps for size 6 × 6 W1.4 × W1.4 (10 Gage) Steel Welded Wire Fabric or one wrap for any of the following sizes:
  - 6 × 6 W2.1 × W2.1 (8 Gage)
  - 6 × 6 W2.9 × W2.9 (6 Gage)
  - 4 × 4 W2.9 × W2.9 (6 Gage)
  - 4 × 4 W4.0 × W4.0 (4 Gage)
 Provide 1 1/2" min. covering over wire fabric.
3. When a Coupling Band connection requires attachment to the bell end of a concrete pipe, the bell end of the pipe shall be removed before the connection is installed.
4. Increase the outside diameter of the metal pipe to match the outside diameter of the concrete pipe by installing 12" (in) wide rubber gaskets, thickness as required (Coupling Band only). The rubber gaskets shall be in accordance with **Standard Specification Section 9-04.4(3)**.
5. Use a flat Type K Coupling Band. Type K Coupling Bands with dimples are not allowed for the installation detail shown. The Coupling Band option shall only be used for extending existing pipes that have an inside diameter of 36" (in) or less.
6. Heat shrink shall have a width of 24" (in). The material shall be wrapped around the outside of the pipe with a 2" (in) minimum overlap. There shall also be a 4" (in) minimum closure patch of material centered along the entire length of the seam.



*Julie Heilman* Julie Heilman  
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**CONNECTION DETAILS FOR  
DISSIMILAR CULVERT PIPE**

**STANDARD PLAN B-60.20-02**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

**Roark, Steve** Digitally signed by Roark, Steve  
Date: 2020.09.09 09:52:35 -07'00'

STATE DESIGN ENGINEER

