

**SECTION 603  
CULVERTS AND STORM DRAINS**

**603-2.01 MATERIALS.** *Add the following:* Provide coupling bands that have the same coating and same material as the pipe.

**603-3.03 JOINING PIPE.** *Replace item 2. with the following:*

2. Metal Pipe. Join metal pipe firmly using one of the types of coupling bands shown on the Plans and as described below. Provide coupling bands that are no more than two nominal sheet thickness lighter than the pipe being joined and in no case thinner than the minimum sheet thickness of the material. The minimum sheet thickness is 0.048 inches for aluminum and 0.052 inches for steel. Furnish and install flexible watertight gaskets or O-rings as shown on the Plans.

- a. Annular, Spiral, Semi-Corrugated, and Rod and Lug Bands. Provide standard bands as described by ASTM A760 and ASTM B745. Join the pipe so the gap between the pipes is in the center of the band and is no wider than one corrugation width.
- b. Dimple and Bias Bands. Use these band only where it is not possible to use other bands, such as on field-cut pipe ends or joining new pipe to existing pipe. Join the pipe so the gap between the pipes is in the center of the band and is no wider than 2 inches.

STANDARD MODIFICATION  
HSM20-48

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**SECTION 705  
JOINT MATERIALS**

**705-2.05 FLEXIBLE WATERTIGHT GASKETS.** *In* "2. Joining flexible metal pipe (steel and aluminum)" delete item "a. ASTM C433". Re-letter the remaining items.