

Wrap all joints on concrete roadway pipe culverts.

Use Type 3 Connections on all culvert pipes, unless specified otherwise. Refer to Materials I.M. 445.01 for Connector requirements.

Minimum 2 threads showing at all threaded ends.

Connections not required on pipe sections installed by trenchless methods.

For belled concrete pipe joints, connectors may be installed on the inside of the pipe.

TYPE 1

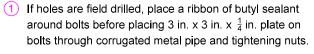
One connector at the top of the pipe section.

TYPE 2 (Sealed Joint)

Two connectors near the top of the pipe section. For details of reinforcement, refer to AASHTO M 170 for the class of pipe required. Refer to Materials I.M. 491.09 for seal requirements.

TYPE 3 (Non - Sealed Joint)

Two connectors near the top of the pipe section. For details of reinforcement, refer to AASHTO M 170 for the class of pipe required.



- 2 $1\frac{3}{4}$ inch round x $\frac{9}{64}$ inch thick washer or 3 in. x 3 in. x $\frac{1}{4}$ in. square plate (shaped to pipe radius).
- 3 Connectors with One Bend End and Bell End spacers allowed per Materials I.M. 451. Refer to Optional Bolts detail.
- 4 Engineering fabric for embankment erosion control.

Possible	Tabulations:
104-3	
104-5	В



REVISIONS:

Corrected title.



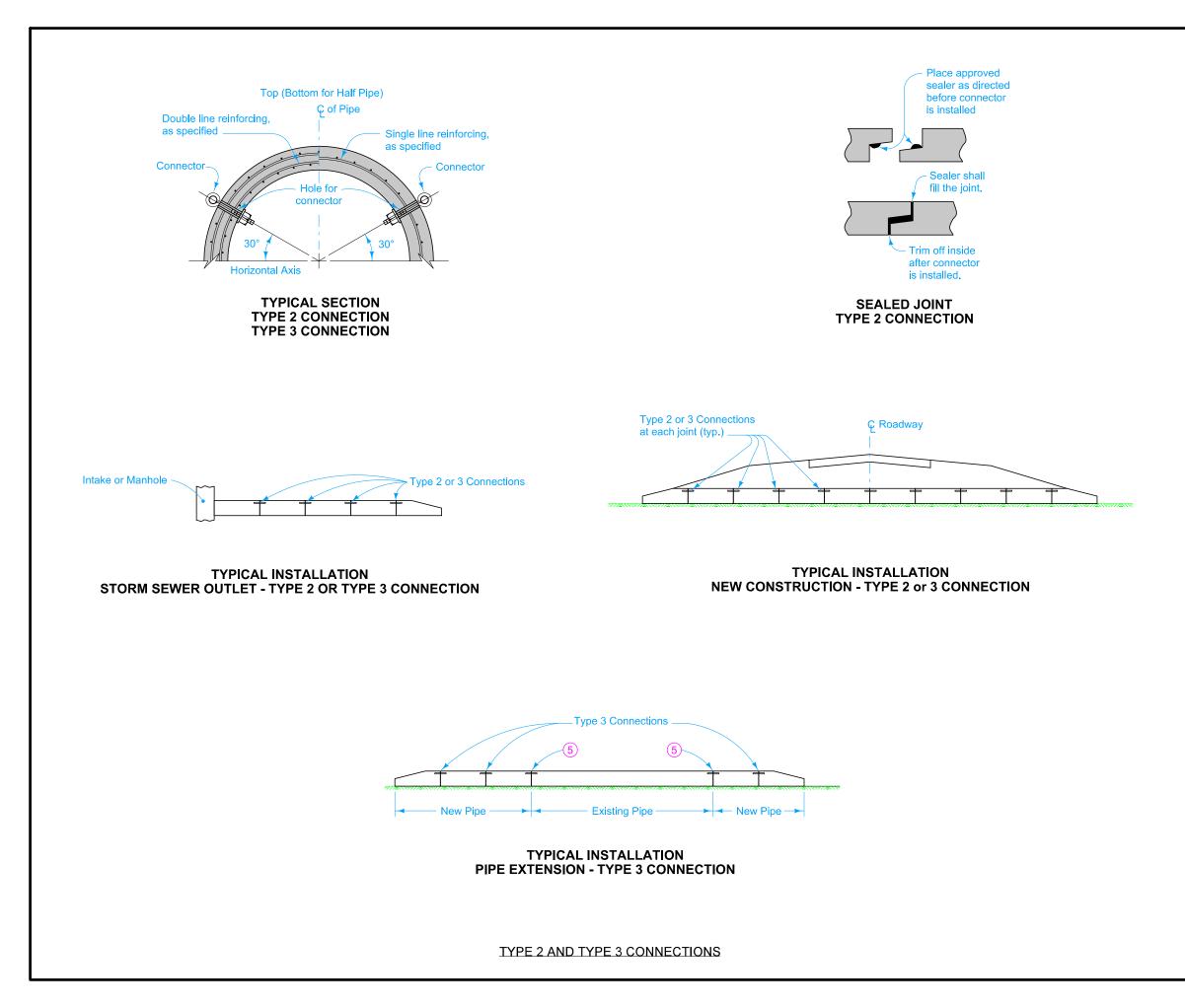
REVISION

DR-121

SHEET 1 of 2

4 04-18-23

CONNECTED PIPE JOINTS



(5) On culvert extensions, connect all new joints including the joint between the old and new culvert pipe. Holes may need to be drilled into existing pipes.

