SECTION 603
REINFORCED CONCRETE PIPE

DESCRIPTION

603.01.01 GENERAL
A. This work shall consist of furnishing circular or elliptical, reinforced concrete pipe, siphons, and conduits of the size, classes, and dimensions and at locations shown on the plans or established by the Engineer and in accordance with ASTM C76, ASTM C655, or ASTM C507, with design basis in accordance with Section 708, “Concrete and Clay Pipe and Drains,” and where indicated in these specifications.

B. The installation shall conform to the AASHTO LRFD Bridge Construction Specifications and these specifications.

MATERIAL

603.02.01 GENERAL
A. Materials and their use shall conform to Subsection 601.02.01, "General," and the requirements below.

B. Prior to the use of these materials, the Contractor shall submit to the Engineer for approval a document certifying that the material meets these specifications and Section 708, “Concrete and Clay Pipe and Drains,” from an authorized source approved by the Interagency Quality Assurance Committee (IQAC).

C. Flared end sections (precast) shall conform to the details and dimensions shown on the plans and, except for shape, shall conform to the material requirements of this section for reinforced concrete pipe.

D. Rubber gaskets are required for all circular pipes and mastic for elliptical pipes. Rubber gaskets shall conform to Subsection 707.03.06, “Rubber Gaskets.”

E. If joint mortar is required, it shall be as specified in Subsection 501.03.12, "Mortar," Class "C."
   1. Sand shall conform to Subsection 706.03.04, "Grout and Mortar Sand."
   2. The materials shall be mixed to a consistency suitable for the purpose intended.
   3. All mortar shall be used within 30 minutes after the mixing water has been added.
   4. Admixtures of hydrated lime, fire clay, diatomaceous earth, or other approved inert material may be used in the mortar to facilitate workability if the Contractor elects.
   5. The amount of admixture to be added shall be the quantity determined by the Engineer.

CONSTRUCTION

603.03.01 GENERAL
A. Construction methods shall conform to Subsection 601.03.01, "Earthwork," through Subsection 601.03.06, "Extending Existing Culverts," and shall meet the requirements below. All pipe installations shall conform to the workmanship and inspection