

## SECTION 608 REINFORCED CONCRETE PIPE STORM SEWERS

### 608.1 Description

- (1) This section describes providing reinforced concrete pipe storm sewer.

### 608.2 Materials

- (1) Furnish materials conforming to the following:

Annular rubber or plastic gaskets .....	<a href="#">607.2</a>
Mastic joint sealer .....	<a href="#">607.2.2</a>
External rubber gaskets.....	<a href="#">607.2</a>
Mortar .....	<a href="#">519.2.3</a>

- (2) Provide reinforced concrete pipe intended for storm sewers conforming to AASHTO M170, for the class of pipe specified, except for the following requirements. Use a concrete mixture that contains not less than 565 pounds of cementitious materials per cubic yard. Use the one of the following combinations of cementitious materials in the concrete:

- Portland cement only.
- Portland blast furnace slag cement only.
- Portland pozzolan cement only.
- A combination of portland cement and fly ash where the fly ash is between 5 and 25 percent by weight of total cementitious material.
- A combination of portland cement and ground granulated blast furnace slag where the slag is between 5 and 25 percent by weight of total cementitious material.

- (3) Regardless of the basis of acceptance of the pipe, conform to AASHTO M170 for the placement of reinforcement.

### 608.3 Construction

- (1) Use construction methods conforming to [607.3](#).

### 608.4 Measurement

- (1) The department will measure the Storm Sewer Pipe Reinforced Concrete bid items by the linear foot acceptably completed. Measure along the centerline of the pipe, from the pipe end at a free outlet to the center of the end catch basin, manhole, inlet, junction or other drainage structure; or from center to center of end catch basins, manholes, inlets, other drainage structures or junctions. The department will not make deductions from these measured lengths for intermediate catch basins, manholes, inlets, other drainage structures, junctions, or fittings.

### 608.5 Payment

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
608.0100 - 0599	Storm Sewer Pipe Reinforced Concrete (class) (inch)	LF

- (2) Payment for the Storm Sewer Pipe Reinforced Concrete bid items is full compensation for providing all materials; for all excavating except rock excavation; for forming foundation; for providing and removing sheeting and shoring; for laying pipe; for sealing joints and making connections to new or existing fixtures; for joint ties; for backfilling; for providing granular backfill material, including bedding material; for cleaning out; and absent the pertinent contract bid items, for restoring the work site.
- (3) If the engineer directs the construction of pipe or portions of pipe greater than one foot above or below the elevation the plans show, the department will pay for this work as specified for extra work in [109.4](#).
- (4) Work performed one foot or less below the pipe bottom to form a satisfactory foundation as specified in [607.3.2](#) is incidental to the work. The department will pay for work required at depths greater than one foot below the pipe bottom as specified for extra work in [109.4](#).
- (5) The department will pay separately for rock excavation for storm sewers under the Storm Sewer Rock Excavation bid item as specified in [607.5](#).