

ITEM 605.2101 08 M – PRECAST CONCRETE HEADWALLS FOR 100mm OUTLET PIPES
ITEM 605.2102 08M – PRECAST CONCRETE HEADWALLS FOR 200MM OUTLET PIPES

DESCRIPTION:

Furnish and install precast concrete headwalls of the size and location shown in the contract documents.

MATERIALS:

1. **Precast Headwall:** Notify the Engineer of the name and location of the precast headwall fabricator at least 30 days before the start of production. Supply precast headwalls meeting the requirements of §704-03, except as noted herein.

Use the dimensions shown on the contract plans. Proposed changes to these dimensions, other than minor changes approved by the Engineer, require submission of three complete sets of working drawings to the Engineer for review and approval.

Mark the name or trademark of manufacturer, the date of manufacture, and the unit identification number on the units with permanent waterproof paint.

2. **Rodent Screen:** Use screens of #2 or #3 welded wire mesh, 16 gauge or heavier, made of Type 304 stainless steel wire or carbon steel wire, hot dipped galvanized in accordance with §719-01. A manufacturer's certification to these requirements will serve as the evidence of acceptability.
3. **Steel Bars:** Use 13 mm diameter, 600 mm long deformed or plain billet-steel bar meeting the requirements of ASTM A615 (such that it will fit in holes in the head wall). The steel bar shall be either hot dipped galvanized in accordance with ASTM A123 or epoxy coated in accordance with 709-04. A manufacturer's certification to these requirements will serve as the evidence of acceptability.

CONSTRUCTION DETAILS:

Install each headwall with a rodent screen and two steel bars as specified. Install headwalls flush with the finished slope and orient to allow the headwall apron to drain. Extend outlet pipes into the headwall fitting until flush with the installed rodent screen. Install a steel bar in each of the two holes, driven to a minimum of 15 mm and a maximum of 50 mm below the top surface of the headwall.

METHOD OF MEASUREMENT:

Headwalls will be measured by the number of units supplied and installed according to the contract documents.

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BASIS OF PAYMENT:

Include the cost of labor, materials and equipment required to fabricate and install the headwalls in the unit price bid per headwall. Headwalls damaged during construction shall be replaced at contractor's expense.