

ITEM 15603.80XXYY M - PRECAST CONCRETE BOX CULVERT

DESCRIPTION

This work shall consist of furnishing and placing single or multi-cell precast reinforced concrete box culvert sections of the type indicated in the plans in accordance with these specifications in the locations indicated and in a manner approved by the Engineer.

MATERIALS

Precast Concrete box culvert shall meet the requirements of Section 706-17 Precast Concrete Box Culverts.

CONSTRUCTION DETAILS

A. Inspection, Storage and Handling - Precast box sections will be inspected at the construction site to determine any damage during shipment and for conformance to the dimensional tolerances. An additional inspection will be made prior to placement of precast box sections to determine any damage during storage.

B. Installation -

1. Excavation. The requirements specified in Section 206 Trench, Culvert and Structure Excavation, that apply to culverts and storm drains shall govern, except as modified in the plans or as directed by the Engineer.

2. Placement. Precast box sections shall be installed, true to line and grade, in accordance with the contract plans. Placement of the box sections shall start at the downstream end and proceed upstream.

3. Joints. Precast box sections shall be installed with the female joints up and the male joints fully entered therein. The joints shall be sealed with preformed plastic joint sealers as approved by the Department. Minimum depth of joint shall be 50 mm. Joints shall be fully drawn together and fastened with the approved mechanical fasteners as shown on the working drawings. These fasteners may be removed or remain in place at the Contractor's option unless directed otherwise by the Engineer. Gaps which occur on the interior surfaces of the culvert shall be filled as ordered by the Engineer with an approved concrete repair material so as to produce a smooth continuous surface.

4. Backfilling. the types of materials to be used in backfilling and the procedure of placement shall conform to the contract plans and the applicable provisions of Subsection 203-3.15 of the Standard Specifications. Movement of construction equipment, vehicles and loads over and adjacent to the culvert shall be done at the Contractor's risk.

Repair of Damaged Sections - Precast box sections that are damaged or disturbed through any cause prior to acceptance of the Contract shall be repaired, re-aligned or replaced as directed by the Engineer and at the Contractor's expense. Box sections which, as determined by the Engineer, cannot be satisfactorily repaired, or do not meet dimensional tolerances, will be rejected and shall be replaced with acceptable sections by the Contractor.

ITEM 15603.80XXYY M - PRECAST CONCRETE BOX CULVERT

METHOD OF MEASUREMENT

The quantity to be measured for concrete box culvert sections shall be the number of meters (laying length) furnished and installed in the work. Meters (laying length) shall be measured by multiplying the number of whole units by the nominal length of each unit and adding thereto to the length of any fractional units incorporated in the work. The nominal length of a unit or fractional unit shall be the inside measured length from one butting end to the other butting end measured along the bottom centerline of the unit.

BASIS OF PAYMENT

The quantity to be paid for shall be the number of meters of each size box culvert section incorporated in the work. The unit price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.

Payment shall be made under Item 15603.80XXYY, where XX and YY as indicated in the itemized proposal shall mean the inside span and rise dimensions respectively in tenths of meters of the precast section.

Excavation and backfill will be paid for separately.