

ITEM 603.67 01 - PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS

DESCRIPTION

This work shall consist of furnishing and placing wingwall units in accordance with these specifications in the locations indicated on the plans and in a manner approved by the Engineer.

MATERIALS

Precast concrete wingwall units shall meet the requirements of Section 706-17 Precast Concrete Box Culverts, except as noted herein.

Design - When the contract plans contain complete design details for the wingwall, alternate designs will not be considered. When the contract plans do not contain complete design details for the wingwall, the contractor shall be responsible for providing them.

CONSTRUCTION DETAILS

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

B. Installation

1. Excavation. The requirements specified in Section 206 Trench, Culvert and Structure Excavation that apply to structures shall govern, except as modified in the plans.

2. Placement. The precast manufacturer shall have a representative available to assist in the installation of the wingwall unit. Wingwalls shall be installed, true to line and grade, in accordance with the contract plans.

3. Closure Pour. The connection between the box culvert and each wingwall shall be formed and poured in place, using Class A concrete, as per Section 501. Wingwalls shall be backfilled prior to placing the closure pour.

4. Sealing and Grouting. Joints between precast wingwall units shall be sealed and or grouted in accordance with the working drawings. Wingwalls shall be backfilled prior to grouting.

5. 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.

METHOD OF MEASUREMENT

Measurement will be taken as the number of square meters of vertical plane projection of wall installed in accordance with the contract documents inclusive of the footing.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, equipment and installation supervision by the precast manufacturer's representative, necessary to satisfactorily complete the work. The cost of all excavation and backfill necessary to complete said work, shall be included in the unit price bid.