

SECTION 717 -- CONCRETE BOX CULVERTS

717.01 -- Description

This work shall consist of the construction of concrete box culverts. They shall be constructed in accordance with these *Specifications* and in conformity with the lines, grades, dimensions, and designs shown in the plans.

717.02 -- Material Requirements

1. Concrete shall meet requirements of Section 1002.
2. Reinforcement shall be furnished, handled, and placed in accordance with the requirements of Section 707.

717.03 -- Construction Methods

1. The Contractor shall not order box culvert materials like reinforcing steel and form lumber until the Engineer provides a field checked order list.
2. Excavation and backfilling shall be performed by the Contractor in accordance with the requirements of Section 702.
3. Concrete construction shall be performed by the Contractor in accordance with the requirements of Section 704.
4. Foundation excavations shall be as dry as practicable before concrete is placed.
5. Care shall be exercised to prevent dirt, mud, or other foreign material from becoming mixed with concrete which is being placed in footings and curtain walls.
6.
 - a. Fence connections require that a 19 mm diameter hole shall be cast through each wing of new or extended concrete box culverts with rises of 1.5 m or greater.
 - b. This hole shall be located 1.2 m above the box flowline near the end of the wing and shall be a minimum of 100 mm from the end and top surfaces of the wing.
7.
 - a. When box culverts are extended, the thickness of the existing walls, deck, and floor will be shown in the plans.
 - b. If the existing thickness is different than the new, the new shall be adjusted by forming a variable thickness in the first 600 mm of the extension.

717.04 -- Method of Measurement and Basis of Payment

1. Measurement and payment for the quantities involved in the construction of concrete box culverts shall be made in accordance with the provisions in Table 717.01.

Table 717.01

Measurement and Payment	
<u>Requirement</u>	<u>Section</u>
Excavation for Structures.....	702
Concrete Construction	704
Reinforcement	707

2. No payment will be made for concrete placed outside the dimensions shown in the plans.

3. The work of providing fence connection holes shall not be paid for directly but shall be considered subsidiary to the construction of the box culvert.

4. No additional compensation will be made for the additional work of forming the tapers as described in Subsection 717.03, Paragraph 7.b. or for the concrete required.

5. Payment is full compensation for all work prescribed in this Section.