

SECTION 610 -- CONCRETE MEDIAN BARRIERS

610.01 -- Description

The Contractor shall furnish all materials, construct, and install cast-in-place or precast concrete median barriers and cast-in-place concrete median barrier end and transition sections in accordance with the details shown in the plans.

610.02 -- Material Requirements

1. The Contractor shall furnish all materials to construct median barriers.
2. The concrete Class shall be specified in the contract bid proposal Schedule of Items.
3. The concrete shall conform to the requirements of Section 1002.
4. Reinforcing steel and dowel bars shall conform to Sections 1020 and 1022.

610.03 -- Construction Methods

1. The Contractor may submit revised designs for approval before building the barriers.
2. The only changes that may be authorized are to the section's casting and attachments or holes used to facilitate handling and lifting. If approved, the concrete median sections must still meet all of the test and performance requirements unless specifically released in the approval letter.
3. Construction of the concrete median barrier shall conform to the applicable provisions of Sections 704 to 707.
4. The Contractor shall take care during storage, hoisting, and handling of precast units to prevent cracking or damage. Units damaged shall be replaced by the Contractor at no additional cost to the Department. The Engineer may approve repairs for minor chipping and spalling.
5.
 - a. The surface finish of the median barrier shall be a rubbed finish in accordance with Subsection 704.03.
 - b. Each individual section of concrete median barrier will have a uniform color and texture so that the completed concrete median barrier will have a uniform appearance.
6. Precast concrete median barriers shall be cured in accordance with Subsection 705.03. If steam curing is used for precast sections, the concrete will be cured until it has reached a compressive strength of 2,175 psi.
7. All forms shall be metal except for end and transition sections.

8. a. If precast units are provided, all lift slots and dowel holes shall be grouted as shown in the plans.

b. Grout for filler and mortar joints shall consist of 1 part cement to 1 part clean, fine-grained sand mixed to flow freely.

610.04 -- Method of Measurement

"Concrete _____ Median Barrier, Type _____" will be measured by the linear foot. "Concrete _____ Median Barrier End Section, Type _____" and "Concrete _____ Median Barrier Transition Section, Type _____" are measured by the each.

610.05 -- Basis of Payment

<u>1. Pay Item</u>	<u>Pay Unit</u>
Concrete _____ Median Barrier, Type _____	Linear Foot (LF)
Concrete _____ Median Barrier End Section, Type _____	Each (ea)
Concrete _____ Median Barrier Transition Section, Type _____	Each (ea)

2. a. The 28-day compressive strength of each day's production will be determined from cylinder strength tests.

b. Payment shall be reduced by the amount prescribed in Table 603.02.

c. (1) The Contractor has the option to take 3 core samples at no additional cost to the Department. The average compressive strength of these cores will be used to determine the actual 28-day compressive strength of each day's production.

(2) Cores must be taken within 30 days from the date the concrete was poured.

(3) The Engineer shall select the site where the cores will be taken.

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