

**INTEGRAL CURB, COMBINED CURB AND GUTTER BITUMINOUS CURBING
AND HEADER CURBING**

609.04

Before placing the bituminous mixture, establish one edge of the bituminous curb by a string or wire line. Lay the bituminous mixture within the lowest practical temperature range which is found to give the best results with the particular mix and machine being used for the job. Once the optimum temperature is established for a given job, do not vary that temperature by more than 20°F (11°C).

- (j) **Backfill.** Backfill the back side of the curbs with approved earth, and thoroughly compact it in layers not exceeding 6 inches (150 mm) in depth and neatly graded as shown on the Plans or as approved by the Engineer. Take care not to damage the concrete in placing or compacting the backfill; any damage will be repaired at no additional charge.

609.05. METHOD OF MEASUREMENT.

Curbing will be measured by the linear foot (meter) along the front face of the curb for (A) concrete curb, (B) combined curb and gutter, (C) concrete header curbing, and (D) bituminous curbing.

609.06. BASIS OF PAYMENT.

The accepted quantities, measured as provided above, will be paid for at the contract unit price as follows:

- (A) CONCRETE CURB LINEAR FOOT (METER)
- (B) COMBINED CURB AND GUTTER LINEAR FOOT (METER)
- (C) CONCRETE HEADER CURBING LINEAR FOOT (METER)
- (D) BITUMINOUS CURBING LINEAR FOOT (METER)

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

SECTION 610

**CONCRETE OR BITUMINOUS SIDEWALKS, DRIVEWAYS,
AND DIVIDING STRIP**

610.01. DESCRIPTION.

This work shall consist of the construction of bituminous or concrete sidewalks, driveways, and dividing strips in accordance with these Specifications and in reasonably close conformity with the lines, grades, and typical cross sections shown on the Plans or established by the Engineer.

610.02. MATERIALS.

Material shall meet the requirements specified in the following Subsections of Section 700 - Materials:

Bituminous Mixture	708.04
Portland Cement Concrete, Class A	701.01

610.04. CONSTRUCTION METHODS.

- (a) **Concrete Construction.** All forming, placing, and finishing shall be in accordance with Subsection 414.04 except that the final surface finish of concrete sidewalks, driveways, and divider strips shall be broom finished, burlap drag, or completed as directed by the Engineer. Make a sawed joint to connect the old and new pavements.

Expansion Joints. Make expansion joints of the dimensions specified, and fill them with the type of premolded expansion joint filler noted in the plans.

Dummy Joints. Divide the sidewalk into sections with dummy joints formed by a jointing tool or other acceptable means as approved by the Engineer. These dummy joints shall extend into the concrete for at least 1/3 of the depth and shall be approximately 1/8 inch (3 mm) wide.

Construction Joints. Form construction joints around all appurtenances such as manholes, utility poles, etc., extending them into and through the sidewalk, driveway, or dividing strip. Into these joints install premolded expansion joint filler 1/4 inch (6 mm) thick. Also install expansion joint filler, of the thickness indicated, between the concrete and any fixed structure, such as a building or bridge, extending it for the full depth of the concrete.

Curing. In accordance with Section 414.04(m), cure concrete for at least 72 hours by means of moist burlap or mats or by other approved methods. During the curing period, exclude all traffic—both pedestrian and vehicular; in addition, vehicular traffic may also be excluded for such additional time as the Engineer directs.

- (b) **Bituminous Construction.** Excavation and forms shall meet the requirements of Subsection 609.04(a) and (b). Construction methods shall be in accordance with Subsection 411.04.

Place the material on the compacted subgrade in one or more courses as indicated so as to give the required depth when rolled.

To compact the material, use a hand-operated or power roller of a type and weight acceptable to the Engineer. In areas inaccessible to the roller, hand tamping will be permitted. In any case, compact the bituminous sidewalk material so that it's uniform.

- (c) **Backfill.** Backfill the sides of sidewalks and driveways as soon as the forms have been removed and the required pointing up of honeycombed areas completed. The backfill shall be of approved earth, thoroughly compacted in layers not exceeding 6 inches (150 mm) in depth as shown on the Plans or in a manner approved by the Engineer. Take care not to damage the concrete or bituminous material in placing or compacting the backfill.

Where the general elevation of the adjacent ground surface is lower than the top of the sidewalk or driveway, the minimum width of the backfill shall be 2 feet (0.6 meters).

- (d) **Protection from Traffic.** Protect sidewalks, driveways, and dividing strip from traffic—using substantial barricades—for a period of seven days for concrete and one day for bituminous construction, unless otherwise permitted or ordered by the Engineer.

- (e) **Remove Relay or Extend Brick or Stone Sidewalks.** Where existing brick or stone sidewalks are to be relaid or extended, prepare the subgrade as specified for concrete sidewalks, providing a sand cushion 1 1/2 inches (38mm) in depth that has a uniform flat surface at the proper subgrade elevation. Satisfactorily clean all old bricks before relaying them. Lay the brick or

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stone close together in a manner to match the existing walk, and uniformly tamp it firmly into the sand cushion. Make the top surface of the walk shall be smooth and at the proper grade. Fill all joints with 1:2 mortar grout by spreading an excess over the surface and sweeping it into the joints. Then clean the top surface of the brick. Backfill the sides of the walk as specified for concrete walks.

610.05. METHOD OF MEASUREMENT.

Concrete sidewalks, driveways, and dividing strip will be measured by the square yard (square meter). *Bituminous sidewalks, driveways and dividing strip* will be measured by the ton (metric ton) or by the square yard (square meter) of bituminous material. *Removing, relaying, or extending of brick or stone sidewalks* will be measured by the square yard (square meter).

610.06. BASIS OF PAYMENT.

The accepted quantities, measured as provided above, will be paid for at the contract unit price as follows:

- (A) CONCRETE SIDEWALK SQUARE YARD (SQ. METER)
- (B) CONCRETE DRIVEWAY SQUARE YARD (SQ. METER)
(HIGH EARLY STRENGTH)..... SQUARE YARD (SQ. METER)
- (C) CONCRETE DIVIDING STRIP SQUARE YARD (SQ. METER)
- (D) REMOVE AND RELAY BRICK OR
STONE SIDEWALK.. SQUARE YARD (SQ. METER)
- (E) BRICK OR STONE SIDEWALK SQUARE YARD (SQ. METER)
- (F) BITUMINOUS SIDEWALK SQUARE YARD OR TON
..... (SQUARE METER OR METRIC TON)
- (G) BITUMINOUS DRIVEWAY SQUARE YARD OR TON
..... (SQUARE METER OR METRIC TON)
- (H) BITUMINOUS DIVIDING STRIP SQUARE YARD OR TON
..... (SQUARE METER OR METRIC TON)

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

Reinforcement, if used, excavation, backfill, expansion joint material, rolled curb on driveways, and other related miscellaneous items will not be paid for separately, but the cost thereof shall be included in the cost of other items.