

Amend **Section 609 - Curb and/or Gutter** to read as follows:

**"SECTION 609 - GUTTER**

**609.01 Description.** This work includes constructing gutter according to the contract.

The contract designates Type 2 as cast-in-place concrete gutter.

**609.02 Materials.** Materials shall conform to following:

Bed Course Material for Sidewalks & Curbing	703.16(A)
Joint Fillers	705.01
Joint Mortar	705.02
Reinforcing Steel	709.01

Concrete for gutter shall conform to Section 601 - Structural Concrete and shall be Class A.

Weed killer shall be a nonemergent and nonselective type, EPA approved for highway application, and suitable for use under the designed thickness of pavements. The materials shall be free of solvents or other substances deleterious to the pavement. Application rates shall be at the highest recommended dosage stated on the label. The Contractor shall submit a sampler label containing the pertinent data for acceptance by the Engineer before use.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work.

**609.03 Construction Requirements.**

**(A) Excavation.** Excavation to the required depth and compact the base to a firm, even surface. Remove and replace soft and unsuitable material with suitable material so that the Contractor can compact thoroughly.

**(B) Forms.** Forms shall be of wood or metal, straight, free from warp and of construction that there shall be no interference with the inspection of grade or alignment.

Forms shall extend for the entire depth of the gutter. Brace and

secure the forms sufficiently so that no deflection from alignment or grade shall occur during the placing of the concrete.

**(C) Placing of Concrete.** Place the concrete according to Section 503 - Concrete Structures. Moisten the subgrade and forms thoroughly ahead of placing concrete.

Work the surfaces of concrete gutters with proper floats and round the exposed edges with an edging tool. Before the concrete has fully set, remove and finish the face form of the curb with a float and steel trowel to a uniform finish. Broom finish other exposed surfaces longitudinally. The Contractor may require special trowels to shape curbs and/or gutters.

To match adjacent concrete finishes, the Engineer may permit other methods of finishing. The Engineer will not permit plastering.

**(D) Sections.** Construct gutter in sections having a uniform length of 15 feet. Separate the sections by weakened plane joints approximately one-eighth inch wide and cut to a depth of one-fourth the gutter thickness. When gutter abuts portland cement concrete pavement, install weakened plane joints in the gutter continuously with the weakened plane joints in the abutting pavement.

**(E) Expansion Joints.** Form the expansion joints at the intervals shown in the contract using a preformed expansion joint filler having a thickness of 0.5 inch. When constructing gutter next to or on concrete pavement, locate the expansion joints opposite to or at expansion joints in the pavement.

Construct expansion joints in gutter at structure abutments and at the ends of returns. Do not construct expansion joints within 20 feet of a traffic island nose.

Shape expansion joints filler to the cross section of the gutter.

**(F) Curing.** Immediately upon completion of the finishing, the Contractor shall:

- (1) moisten and keep the gutter moist for three days or
- (2) cure the gutter by using membrane forming material.

The method and details of curing will be subject to acceptance.

(G) **Backfilling.** After the concrete has set sufficiently, refill the spaces in front and back of the gutter to the required elevation with suitable material. Tamp the material thoroughly in layers of not more than 6 inches .

(H) **Construction Joints.** Build construction joints in cast-in-place gutters:

- (1) when the delays are greater than 45 minutes between two consecutive batches in concrete operations,
- (2) at the end of each day of pouring, or
- (3) when specified by the Engineer.

Build the construction joints according to the details shown in the contract and shall coincide with the spacing of weakened plane joints. Coat the dowels for the joints uniformly with a thin film of heavy lubricating oil immediately before placement of concrete at the joint. Support the dowels firmly during concrete placement. The forms shall remain in place until the Contractor resumes concrete operations on the other side of the joint.

**609.04 Method of Measurement.** The Engineer will measure gutter per linear foot. The Engineer will measure along the invert of the gutter.

**609.05 Basis of Payment.** The Engineer will pay for the accepted gutter at the contract unit price per linear foot complete in place.

The price includes full compensation for excavating; backfilling; installing reinforcing steel; furnishing, placing and compacting the bed course material; installing expansion joint material and weakened plane joint; and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will make payment under:

<b>Pay Item</b>	<b>Pay Unit</b>
Gutter, Type _____	Linear Foot"