

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

2
3 **"SECTION 609A – PORTLAND CEMENT CONCRETE CURB AND GUTTER**

4
5 **609A.01 Description.** This section describes constructing or resetting portland
6 cement concrete curb and gutter.

7
8 Portland cement concrete curb and/or gutter are designated as follows:

- 9
10 (1) Type 2 - Cast-in-place concrete curb, or
11 Cast-In-Place Concrete Gutter, or
12 Cast-In-Place Concrete Curb and Gutter
13
14 (2) Type 3 - Precast Concrete Curb
15
16 (3) Type 4 - Dowelled Concrete Curb
17

18 **609A.02 Materials.**

19

20 Concrete, Class A	601
21	
22 Asphalt Cement	702.01
23	
24 Bed Course Material for Sidewalks & Curbing	703.16(A)
25	
26 Joint Fillers	705.01
27	
28 Joint Mortar	705.02
29	
30 Reinforcing Steel	709.01
31	
32 Precast Concrete Curb and/or Gutter	712.05
33	

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

41
42 **609A.03 Construction Requirements.**

- 43
44 (A) General.
45

46 (1) **Excavating.** Excavate to required depth, remove
47 unsuitable material, and compact subgrade to firm, even surface in
48 accordance with Subsection 203.03(A)(5) – Subexcavation.
49

50 (2) **Bed Course.** Use aggregate for untreated base in
51 accordance with Subsection 703.16(A) - Bed Course Material for
52 Sidewalks and Curbing, as bed course material. Place bed course
53 material a minimum of 4 inches in depth. Compact with at least
54 three passes of lightweight mechanical tamper, roller, or vibratory
55 system.
56

57 (3) **Backfilling.** After setting the curb, gutter, or curb and
58 gutter, fill the remaining excavated areas with material accepted by
59 the Engineer. Place and tamp accepted material in layers up to 6
60 inches in depth. Do not backfill until 24 hours after constructing
61 joints.
62

63 (B) **Precast.**
64

65 (1) **Installing.** Set front top arris line to required line and
66 grade. Fill and tamp spaces under curb with bed course material.
67

68 (2) **Joints.** Set precast blocks approximately 1/2 inch apart
69 and fill joints with mortar. When constructed next to portland
70 cement concrete pavement, align curb joints with pavement
71 expansion joints. Provide 1/2-inch-wide expansion joint filler to
72 cover entire end of curb. Attach expansion joint filler to end of
73 curb with asphalt cement.
74

75 (C) **Cast-in-Place.**
76

77 (1) **Forms.** Use full-depth wood or metal forms that are
78 straight, free from warp, and allow inspection of grade and
79 alignment. Brace and secure forms to prevent alignment or grade
80 deflection during placing of concrete.
81

82 (2) **Placing.** Moisten subgrade and forms immediately before
83 placing concrete. Place the concrete in accordance with Section
84 503 - Concrete Structures. If curb or curb and gutter construction
85 is stopped for more than 45 minutes, install construction joint.
86

87 Float concrete gutter surface and round exposed edges with
88 edging tool. Before concrete has fully set, remove face form of
89 curb and provide uniform finish with float and steel trowel. Broom
90 finish other exposed surfaces longitudinally.
91

When tying into existing curb, or curb and gutter, transition finish as required to match. Do not plaster surface.

(3) Sections. Construct weakened-plane joints, approximately 1/8-inch wide by 1/4 the gutter depth, in 15 foot sections.

When constructed next to portland cement concrete pavement, construct weakened-plane joints to match pavement weakened-plane joints.

(4) Expansion Joints. Form expansion joints at intervals shown in the contract documents using 1/2-inch thick preformed expansion joint filler shaped to cross section of curb, gutter, or curb and gutter. Construct additional expansion joints to match expansion joints in adjacent portland cement concrete pavement.

Construct expansion joints at structure abutments and at curb returns. Do not construct expansion joints within 20 feet of traffic island nose.

(5) Curing. Cure concrete immediately upon completion of finishing by continually moistening for three days, or by using membrane curing compound. Submit method and details of curing for acceptance.

(6) Curb Machine. Curb-forming machine accepted by the Engineer may be used as alternative method for concrete placement.

(7) Construction Joints. Construct construction joints at end of each day of placing concrete. Coincide construction joints with spacing of weakened plane joints. Coat dowels uniformly with thin film of heavy lubricating oil immediately before placement of concrete at joint. Insert and position dowels parallel to gutter surface. Provide firm support for dowels during concrete placement. Leave forms in place until concrete operations resume next to joint.

(D) Resetting Curb.

(1) Salvage. Remove, store, protect, and clean curb to be reset. Replace lost, damaged, or destroyed salvaged curb.

(2) Resetting. Reset top arris line to required line and grade. Fill and tamp spaces under curb with bed course material. Set blocks approximately 1/2 inch apart and fill joints with mortar.

(3) **Cutting and Fitting.** Cut and fit curb if necessary.

609A.04 Method of Measurement. Curb, gutter, or curb and gutter will be paid on a lump sum basis. Measurement for payment will not apply.

609A.05 Basis of Payment. The Engineer will pay for the accepted curb, or gutter, or curb and gutter on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Curb, Type _____	Lump Sum
Gutter, Type _____	Lump Sum
Curb and Gutter, Type _____	Lump Sum
Reset Curb, Type _____	Lump Sum"

END OF SECTION 609A