

45 **(2) Bed Course.** Use aggregate for untreated base conforming to
 46 Subsection 703.06 - Aggregate for Untreated Base, as bed course
 47 material. Place bed course material a minimum of 4 inches in depth.
 48 Compact with at least three passes of lightweight mechanical tamper,
 49 roller, or vibratory system.

50 **(3) Backfilling.** After setting curb, gutter, or curb and gutter, fill
 51 remaining excavated areas with material acceptable to Engineer.
 52 Place and tamp accepted material in layers up to 6 inches in depth.
 53 Do not backfill until 24 hours after constructing joints.

54

55 **(B) Precast.**

56

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

59

60 **(2) Joints.** Set precast blocks approximately 1/2 inch apart and fill
 61 joints with mortar. When constructed next to portland cement
 62 concrete pavement, align curb joints with pavement expansion joints.
 63 Provide 1/2-inch-wide expansion joint filler to cover entire end of curb.
 64 Attach expansion joint filler to end of curb with asphalt cement.

65

66 **(C) Cast-in-Place.**

67

68 **(1) Forms.** Use full-depth wood or metal forms that are straight,
 69 free of warp, and allow inspection of grade and alignment. Brace and
 70 secure forms to prevent alignment or grade deflection during placing
 71 of concrete.

72

73 **(2) Placing.** Moisten subgrade and forms immediately before
 74 placing concrete. Place concrete in accordance with Section 503 –
 75 Concrete Structures. If curb or curb and gutter construction is
 76 stopped for more than 45 minutes, install construction joint.

77

78 Float concrete gutter surface and round exposed edges with
 79 1/4-inch edging tool. Before concrete has fully set, remove face form
 80 of curb and provide uniform finish with float and steel trowel. Broom
 81 finish other exposed surfaces longitudinally. Finish rear of curb to a
 82 Class 2 finish to 4 inches below finish grade of the backfill against the
 83 curb.

84

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

87

88

88 **(3) Sections.** Construct weakened-plane joints, approximately
89 1/8-inch wide by 1/4 gutter depth, in 15-foot sections.

90
91 When constructed next to portland cement concrete pavement,
92 construct weakened-plane joints to match pavement weakened-plane
93 joints. Maintain 15 feet maximum joint spacing.

94
95 **(4) Expansion Joints.** Form expansion joints at intervals shown
96 in contract documents using 1/2-inch thick preformed expansion joint
97 filler shaped to cross section of curb, gutter, or curb and gutter.
98 Construct additional expansion joints to match expansion joints in
99 adjacent portland cement concrete pavement.

100
101 Construct expansion joints at structure abutments and at curb
102 returns. Do not construct expansion joints within 20 feet of traffic
103 island nose.

104
105 **(5) Curing.** Cure concrete immediately upon completion of
106 finishing by continually moistening for three days, or by using
107 membrane curing compound.

108 **(6) Curb Machine.** Curb-forming machine acceptable to Engineer
109 may be used as alternative method for concrete placement.

110
111 **(7) Construction Joints.** Construct construction joints at end of
112 each day of placing concrete. Coincide construction joints with
113 spacing of weakened plane joints. Coat dowels uniformly with thin film
114 of heavy lubricating oil immediately before placement of concrete at
115 joint. Insert and position dowels parallel to gutter surface. Provide
116 firm support for dowels during concrete placement. Leave forms in
117 place until concrete operations resume next to joint.

118
119 **(D) Resetting Curb.**

120
121 **(1) Salvaging.** Remove, store, protect, and clean curb to be reset.
122 Replace lost, damaged, or destroyed salvaged curb.

123
124 **(2) Resetting.** Reset top arris line to required line and grade. Fill
125 and tamp spaces under curb with bed course material. Set blocks
126 approximately 1/2 inch apart and fill joints with mortar.

127
128 **(3) Cutting and Fitting.** Cut and fit curb if necessary.

129
130 **638.04 Measurement.** Curb, gutter, curb and gutter, or reset curb will be paid on
131 a lump sum basis. Measurement for payment will not apply.

132

638.05

133 **638.05 Payment.** Engineer will pay for the accepted curb, gutter, curb and
134 gutter, or reset curb on a contract lump sum basis. Payment will be full
135 compensation for work prescribed in this section and contract documents.

136
137 Engineer will pay for each of the following pay items when included in
138 proposal schedule:

139	Pay Item	Pay Unit
140		
141		
142	Curb, Type _____	Lump Sum
143		
144	Gutter, Type _____	Lump Sum
145		
146	Curb and Gutter, Type _____	Lump Sum
147		
148	Reset Curb, Type _____	Lump Sum
149		

150
151

END OF SECTION 638