NOTE: INCLUDE COST OF CONCRETE FILLET IN VALLEY GUTTER.

CONCRETE CURB RETURN FILLET REQUIRED FOR NEW CURB & GUTTER INSTALLATIONS (TYPICAL)

NOTE: INDIVIDUAL LOCATIONS MAY REQUIRE MORE DETAILS FOR ELEVATIONS AND DIMENSIONS.

INSTALLED REINFORCEMENT AT ALL CONSTRUCTION JOINTS.

CONTRACTION JOINTS ARE 1/8" [3 mm] MIN. AND 3/8" [10 mm] MAX. IN WIDTH. FORM JOINTS BY SAWING OR SCORING TO A MINIMUM DEPTH OF 1" [25 mm]. FORM SCORED JOINTS BY A TOOL WHICH WILL LEAVE ROUNDED CORNERS AND DESTROY AGGREGATE INTERLOCK TO A MINIMUM DEPTH OF 1" [25 mm].

TO BE USED ON PLANT MIX SURFACING PROJECTS ONLY. PROVIDE PROJECT SPECIFIC DETAILS FOR PCCP PROJECTS.

CURB RETURN FILLET INSTALLATION WITHOUT CURB RETURN FILLET

NOTE: IF CURB RETURN EXISTS, GRIND GUTTER TO FORM OUTLET CHANNEL WHEN THIS IS THE HIGH SIDE

CURB TO CURB WIDTH VARIES

REINFORCE WITH 5 - #4 x 36" (#13 x 900) EPOXY COATED DEFORMED REBARS EVENLY SPACED ON 6" [150] CENTERS WITH 3 1/2" [90] COVER

REINFORCE WITH 5 - #4 x 36" (#13 x 900) EPOXY COATED DEFORMED REBARS EVENLY SPACED ON 6" [150] CENTERS WITH 3 1/2" [90] COVER

SECTION A-A

FINISHED STREET SURFACE IS 1/4" (3) TO 1/4" (6) ABOVE EDGES OF DOUBLE GUTTER
CONCRETE CURBS

P = AREA TO BE PAINTED.

1% [25] DEEP CONTRACTION JOINT PLACED AT 10' [3.05 M] MAXIMUM INTERVALS. GROOVES ARE CONTINUOUS ON THE TOP EXPOSED SURFACE FOR THE WIDTH OF CURB AND GUTTER.

"2% SLOPE"

CONCRETE ADA LAYDOWN CURBS

USE WHEN LANDING IS PLACED INTEGRAL WITH CURB & GUTTER (SEE DTL. DWG. NO. 608-35)

Joints:

(A) WHEN INTEGRAL WITH, TIED TO, OR PLACED AGAINST PORTLAND CEMENT CONCRETE PAVEMENT (P.C.C.P.); MATCH TRANSVERSE CONTRACTION AND/OR EXPANSION JOINTS IN THE ADJACENT P.C.C.P. SLAB. IF REQUIRED, EXTEND 1/2" [13] MIN. WIDTH PREFORMED EXPANSION JOINTS COMPLETELY THROUGH CURB AND GUTTER THE SAME WIDTH AS THE P.C.C.P. SLAB JOINT. FILL CURB AND GUTTER EXPANSION JOINTS WITH PREFORMED EXPANSION JOINT FILLER.

(B) ALL OTHER CASES:

SPACE CONTRACTION JOINTS IN CURB AND GUTTER AT 10 FOOT [3.05 m] INTERVALS OR LESS EXCEPT AS SPECIFIED IN (A) ABOVE. EXTEND 1/2" [13] MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB AND GUTTER EVERY 100 FEET [30.48 m] (± 30 FEET [9.14 m]) AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL, AND FILL WITH EXPANSION JOINT FILLER.

(C) CONTRACTION JOINTS:

CONTRACTION JOINTS ARE 1 1/8" [28] AND 3 1/8" [81] MAX. IN WIDTH. FORM JOINTS BY SAWING OR SCORING TO A MINIMUM DEPTH OF 1" [25]. FORM SCORED JOINTS BY A TOOL WHICH WILL LEAVE ROUNDED CORNERS AND DESTROY AGGREGATE BY SAWING OR SCORING TO A MINIMUM DEPTH OF 1" [25].

(D) OTHER JOINTS:

SEPARATE THE CURB AND GUTTER FROM ADJACENT SIDEWALK AT POINTS SHOWN ON DTL. DWG. NO. 608-05 WITH A BOND BREAKER MATERIAL, EXCEPT AT APPROACH LAYDOWN CURB LOCATIONS, WHICH REQUIRE SEPARATION USING 1/2" [13] MIN. WIDTH PREFORMED EXPANSION JOINT MATERIAL. PLACE 1/2" [13] MIN. WIDTH PREFORMED EXPANSION JOINT MATERIAL AT ALL CURB RETURNS, BRIDGES, DROP INLETS, AND WHERE MEETING CURB AND GUTTER IN PLACE.

CONCRETE CURBS

CURB SECTION

1 CUBIC FOOT [0.305 cu m] OF CONCRETE WILL MAKE ABOUT 8 LINEAR FEET (2.44 in m) OF CURB.

NOTES:

1. WHEN CURB IS USED IN CONJUNCTION WITH GUARDRAIL, USE THE 4" [102] HIGH TYPE. OTHERWISE, THE CONTRACTOR MAY USE EITHER SECTION.

2. CONFORM ALL MATERIALS AND CONSTRUCTION PER SECTION 609.

3. PROVIDE CONTRACTION JOINTS IN CONCRETE CURBS AS DESCRIBED IN NOTE (B) ABOVE.

MISCELLANEOUS CURBS
CONSTRUCTION:

1. CURBS MAY BE CONSTRUCTED USING ANY OF THE FOLLOWING THREE METHODS:
   (1) PRECAST
   (2) CAST IN PLACE
   (3) CONSTRUCTED BY THE USE OF AN APPROVED CURB FORMING OR SLIP FORM MACHINE.

2. WHEN USING EITHER METHOD (2) OR (3), REINFORCING STEEL IS NOT REQUIRED, WITH THE EXCEPTION OF THE PINS. SCORE OR SAW CUT CURBS TO A DEPTH OF 1" [25] TO FORM CONTRACTION JOINTS AT INTERVALS OF 10 FT. [3000] OR LESS. EXTEND 1/2" [13] MIN. WIDTH EXPANSION JOINTS COMPLETELY THROUGH CURB EVERY 100 FT. (± 30 FT.) [30 m (± 10 m)], AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL AND FILL WITH PREFORMED EXPANSION JOINT FILLER MEETING SECTION 707.

3. FORM PRECAST CURBS IN THEIR INVERTED POSITION, IN LENGTHS NOT LESS THAN 4 FT. [1220], OR MORE THAN 10 FT. [3050].

MATERIAL:

1. CONSTRUCT CURBS WITH CLASS GENERAL CONCRETE OR AN APPROVED EQUIVALENT MIX.

2. EPOXY BINDER FOR GROUTING MUST MEET THE REQUIREMENTS OF (AASHTO M 235 [235 M]) (ASTM C 881 [881 M]).

QUANTITIES (FOR ESTIMATING PURPOSES ONLY):

CONCRETE = 0.015 C.Y. PER 1.0' (0.027 m³ PER 1.0')
REINF. STEEL = 3.7 LB. PER 1.0' (4.02 kg PER 1.0')
PAINTED CURB IS REQUIRED
P = AREA TO BE PAINTED, WHEN PAINTED CURB IS REQUIRED
(127 SQ. FT. PER 100 FT. [38.3 m² PER 100 m] OF CURB)

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.
CONCRETE MEDIAN CAP

NOTES:
1/2" (13) EXPANSION JOINTS ARE SHOWN AS DARK SOLID LINES FOR VISUAL PURPOSES.
BOND BREAKER IS SHOWN AS DARK DASHED LINE FOR VISUAL PURPOSES.

INSTALL PREFORMED EXPANSION JOINT FILLER, PER SECTION 707, AT ALL EXPANSION JOINTS, FOR THE FULL THICKNESS OF THE CONCRETE MEDIAN CAP.


ALL JOINTS MUST BE STRAIGHT AND PERPENDICULAR TO THE CENTERLINE AND THE SURFACE OF THE MEDIAN CAP. WHERE PRACTICAL ALIGN ALL JOINTS WITH LIKE JOINTS IN ADJOINING WORK. USE JOINTS TO OUTLINE ALL PANELS IN THE MEDIAN CAP. USE SQUARE PANELS WHEN PRACTICAL. ON NARROW MEDIAN CAPS RECTANGULAR SHAPED PANELS ARE ACCEPTABLE.

ALIGN JOINTS IN ADJOINING WORK. USE JOINT MATERIAL AS A BOND BREAKER. DO NOT USE EXPANSION JOINT MATERIAL AS A BOND BREAKER.

LOCATE EXPANSION JOINTS AT ALL JOINTS BETWEEN THE MEDIAN CAP AND STRUCTURES IN PLACE AND EVERY 100 FT. (±30 FT.) (30 m ±10 m) AT INTERVALS EQUAL TO THE NEAREST MULTIPLE OF THE CONTRACTION JOINT INTERVAL. USE A LONGITUDINAL EXPANSION JOINT IN THE CENTERLINE OF ALL MEDIAN CAPS WIDER THAN 12 FT. (3660).

USE LONGITUDINAL CONTRACTION JOINTS IN MEDIAN CAPS WIDER THAN 6 FT. (1830), WITH SPACING NOT TO EXCEED 6 FT. (1830). SPACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE LONGITUDINAL SPACING ON MEDIAN CAPS WIDER THAN 6 FT. (1830). FOR MEDIAN CAPS NARROWER THAN 6 FT. (1830), SPACE TRANSVERSE CONTRACTION JOINTS 10 FT. (3000) OR LESS.

CONSTRUCT CONCRETE MEDIAN CURB AND CAP WITH CLASS GENERAL CONCRETE OR APPROVED EQUAL.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.