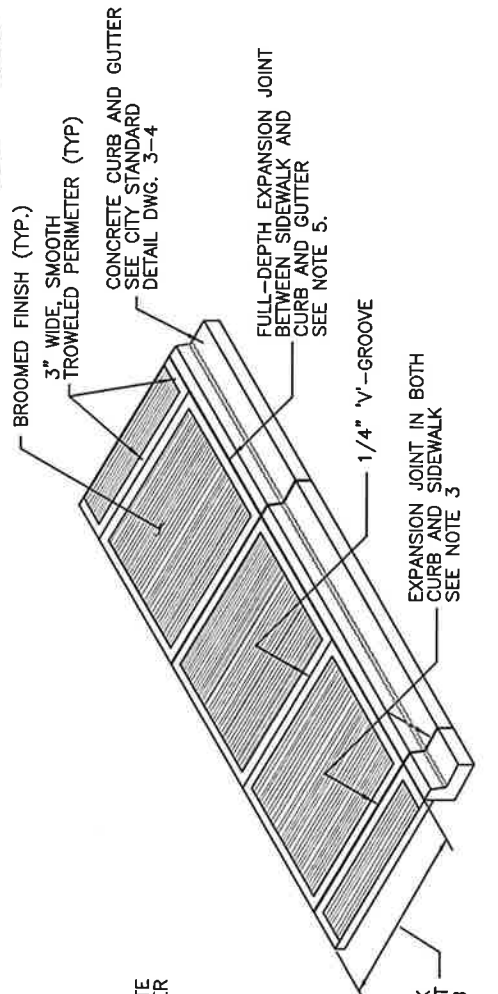
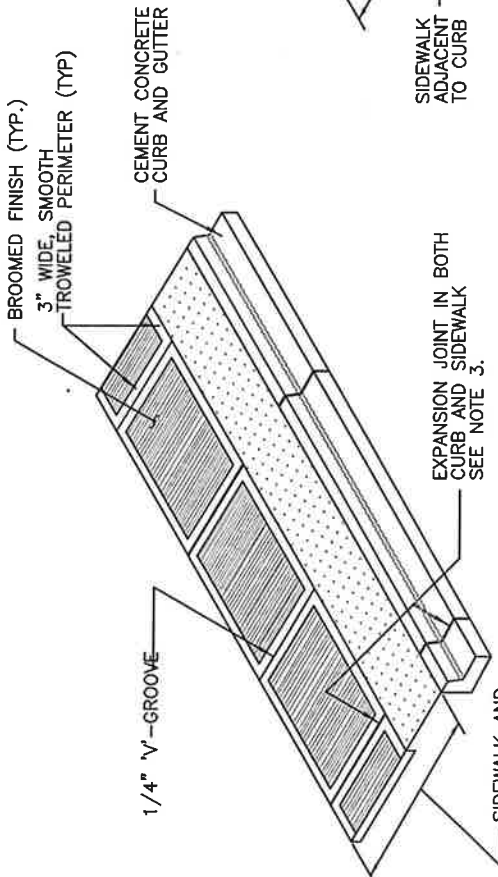
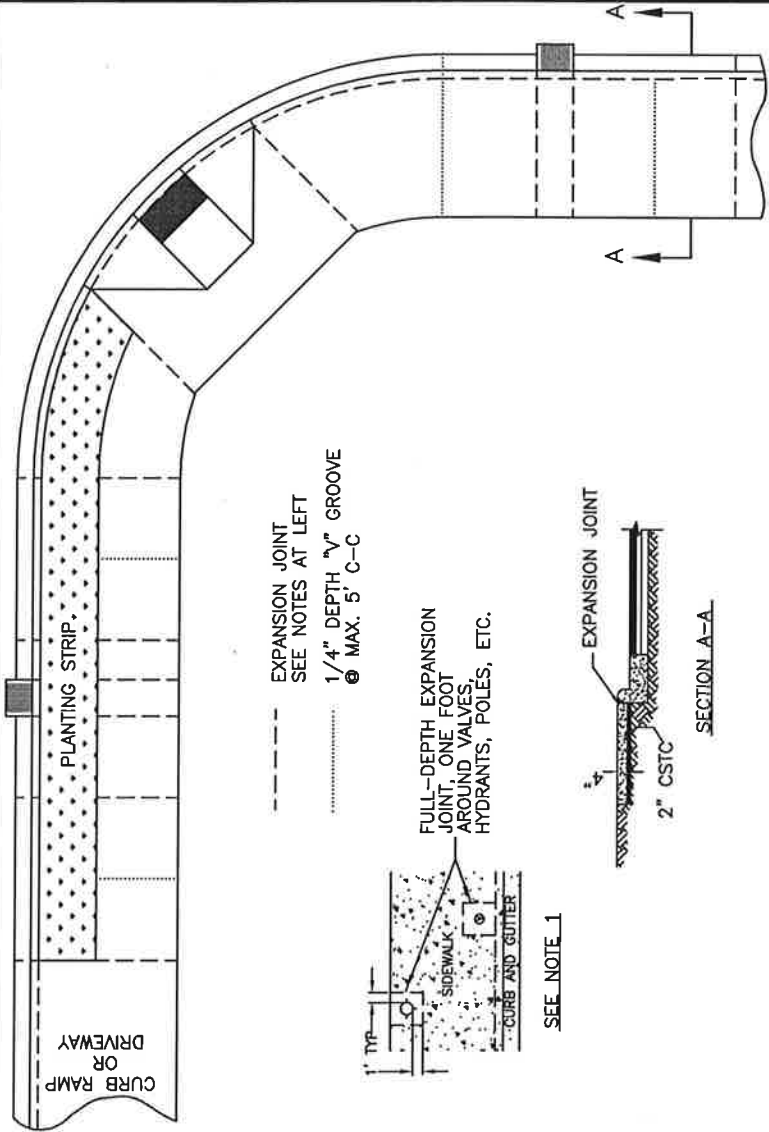


NOTES:

1. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL DEPTH AROUND HYDRANTS, POLES, POSTS, AND UTILITY CASTINGS. SEE DETAIL AT RIGHT.
2. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED IN THE UPPER 2 INCHES OF CURBS AND SIDEWALKS AT 10 FOOT INTERVALS AND AT SIDES OF DRAINAGE INLETS. (JOINT MATERIAL OF 2 1/2" DEPTH MAY BE USED IN LIEU OF 2" DEPTH).
3. EXPANSION JOINTS IN SIDEWALK SHALL BE LOCATED SO AS TO MATCH THE JOINTS IN THE CURB AND GUTTER, WHETHER THE SIDEWALK IS ADJACENT TO THE CURB OR SEPARATED BY A PLANTER STRIP.
4. TOOL MARKS, CONSISTING OF 1-INCH 'V'-GROOVES SHALL BE MADE IN THE SIDEWALK AT 5 FOOT INTERVALS, INTERMEDIATE TO THE EXPANSION JOINTS.
5. AN EXPANSION JOINT CONSISTING OF 3/8" PRE-MOLDED JOINT MATERIAL SHALL BE PLACED FULL-DEPTH BETWEEN THE CURB AND ADJACENT SIDEWALK.
6. EXPANSION JOINT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM D994 (AASHTO M33).
7. MONOLITHIC POURS OF CURB AND SIDEWALK ARE NOT ALLOWED.



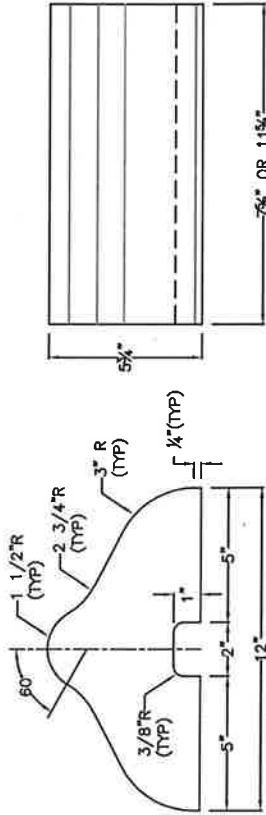
FEB 2011



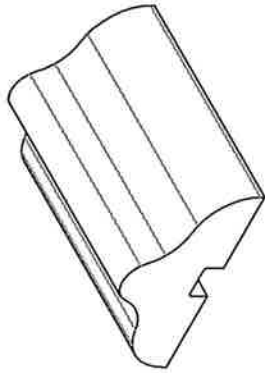
PUBLIC WORKS

SIDEWALK AND CURB JOINTS AND SIDEWALK FINISH

DWG. NO. 3-3



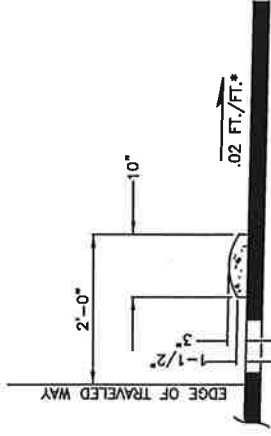
SECTION



ISOMETRIC

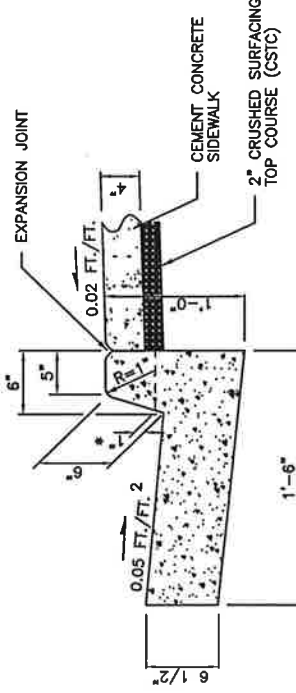
TYPE 'C' BLOCK TRAFFIC CURB

- NOTES:
1. SEE DWG. 3-3 FOR JOINT REQUIREMENTS.
 2. ROLL GUTTER TO MATCH POSITIVE SUPERELEVATION.
 3. TO BE USED ONLY AS APPROVED BY THE PUBLIC WORKS DEPT.



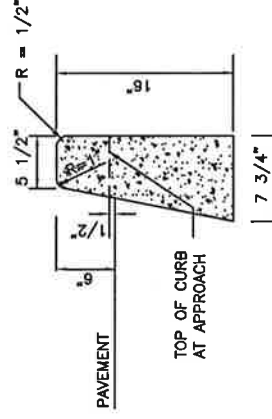
ELEVATION

MOUNTABLE CEMENT CONCRETE CURB³

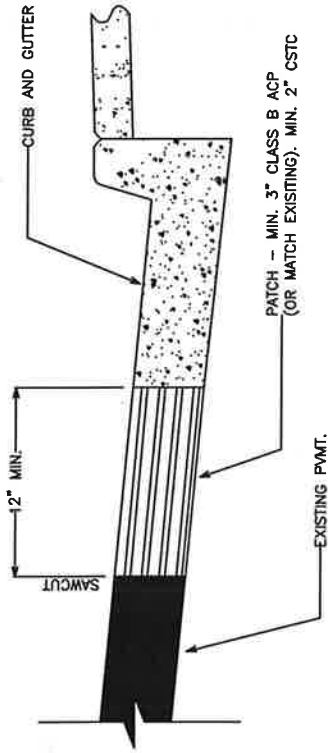


* NOTE: TOP OF LIP AT DRIVEWAYS.

NEW CEMENT CONCRETE CURB & GUTTER



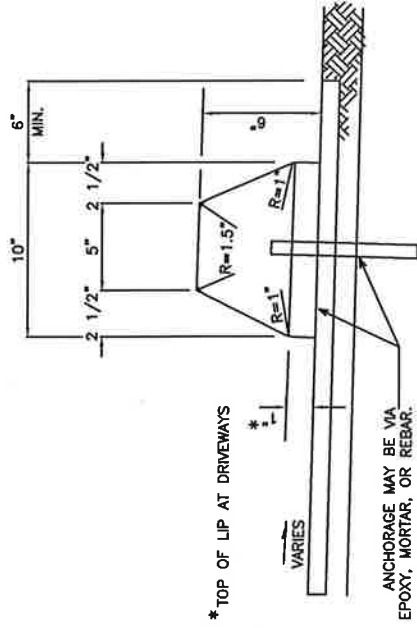
CEMENT CONCRETE BARRIER CURB



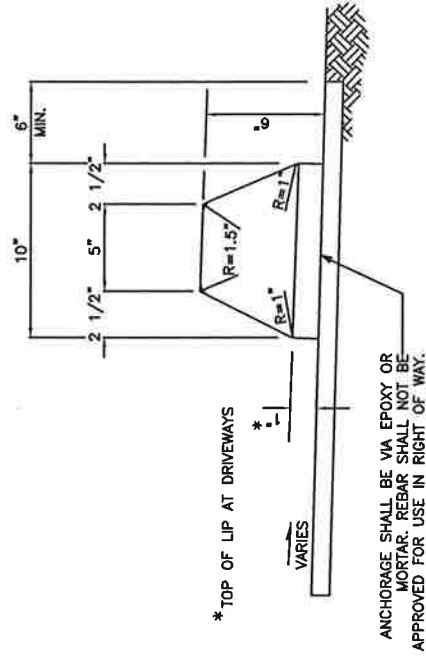
CEMENT CONCRETE CURB & GUTTER REPLACEMENT¹

NOTES:

1. EXISTING CURB REPLACEMENT WILL REQUIRE REMOVAL OF ASPHALT A MINIMUM OF 12" FROM FACE OF GUTTER.

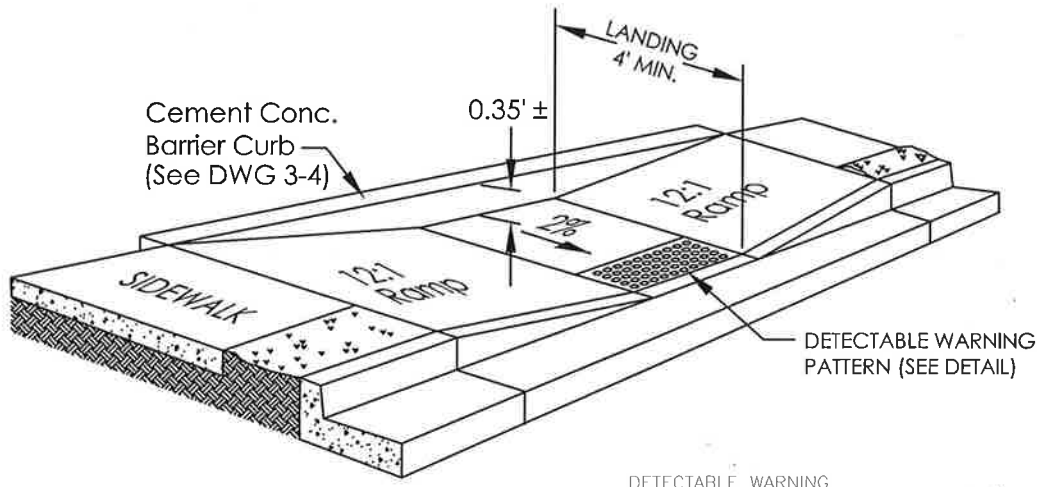
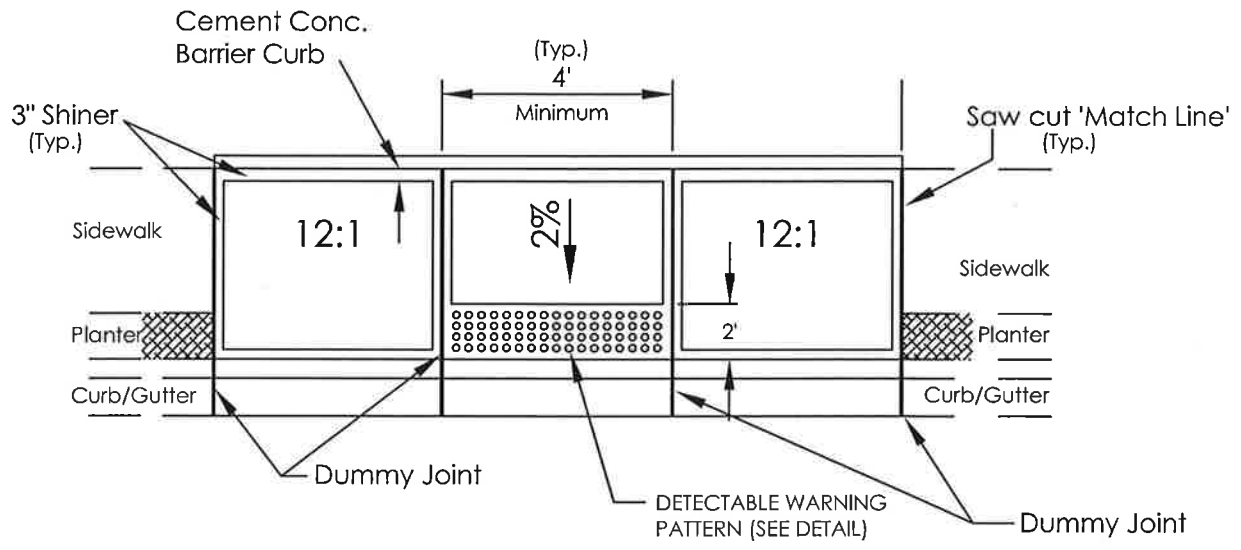


EXTRUDED ASPHALT OR CEMENT CONCRETE CURB
IN PRIVATE PARKING AREAS ONLY

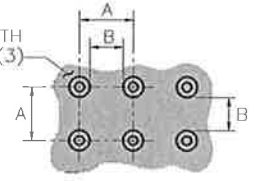


EXTRUDED CEMENT CONCRETE CURB
FOR USE IN PUBLIC RIGHT OF WAY

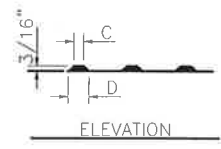
APRIL 2012



DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD, SPEC. 8-14.3(3)

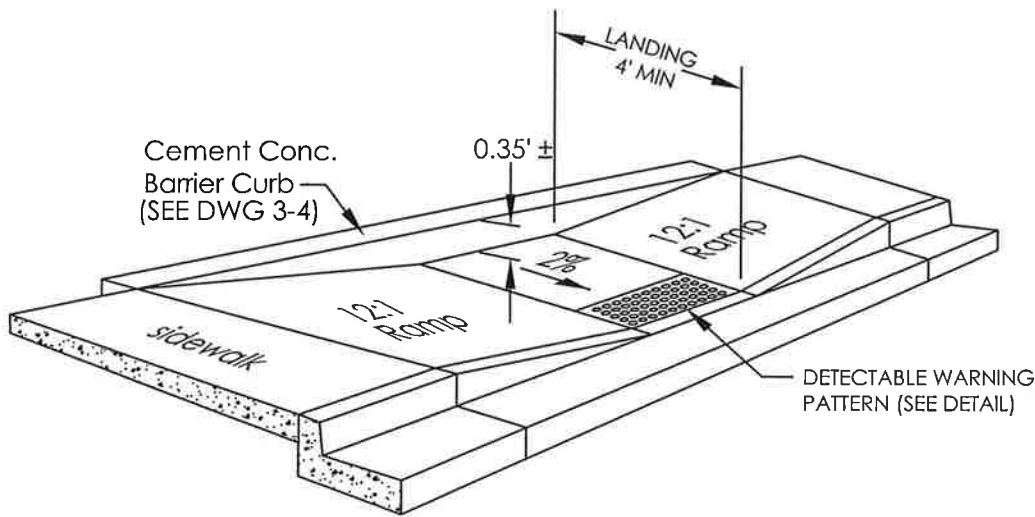
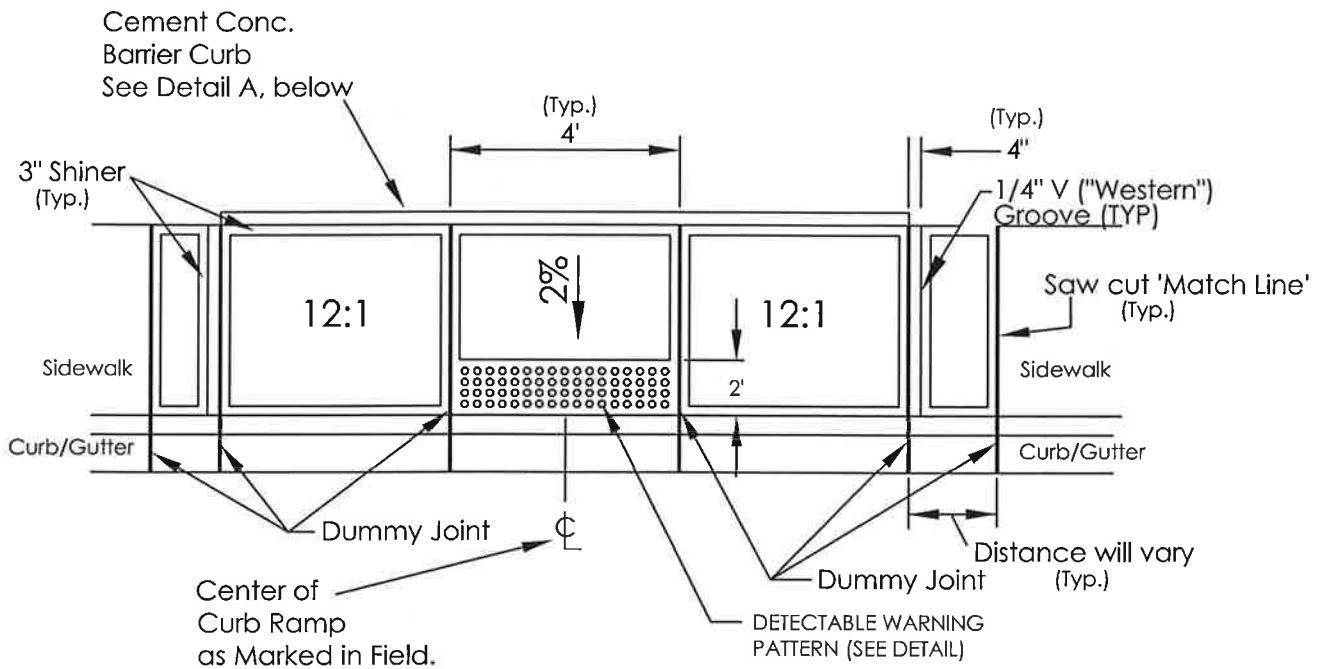


	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



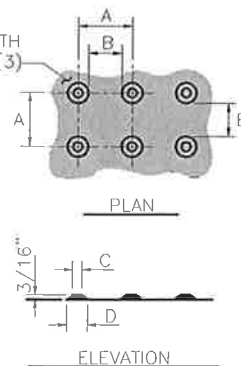
DETECTABLE WARNING PATTERN DETAIL

REV. MAR 2011



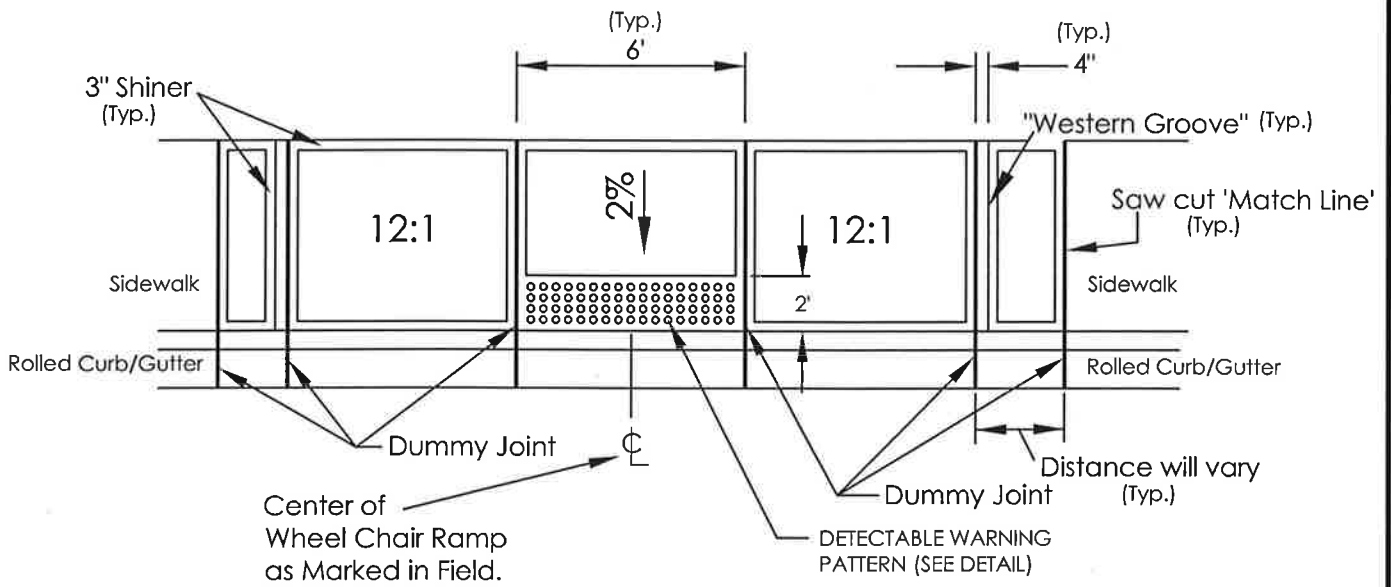
DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD. SPEC. 8-14.3(3)

	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

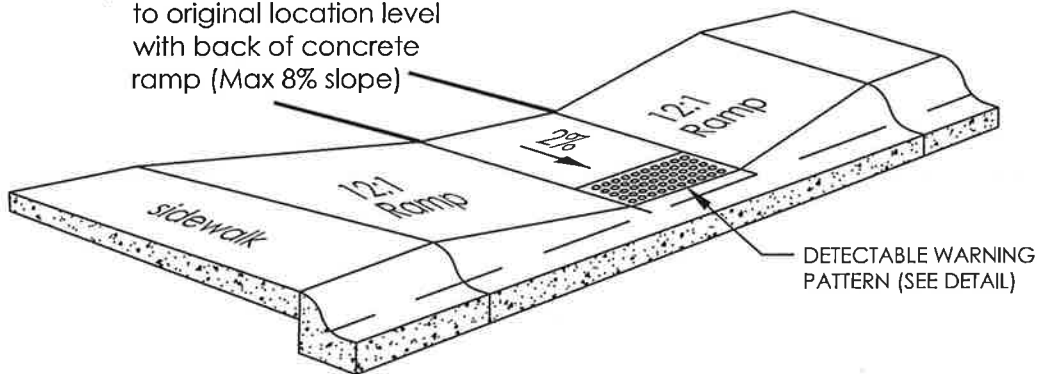


DETECTABLE WARNING PATTERN DETAIL

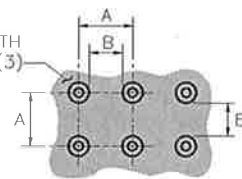
REV. MAR 2011



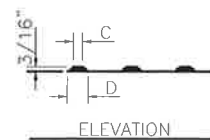
Restore Asphalt pathway to original location level with back of concrete ramp (Max 8% slope)



DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD. SPEC. 8-14.3(3)

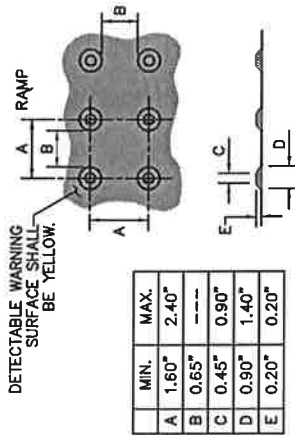
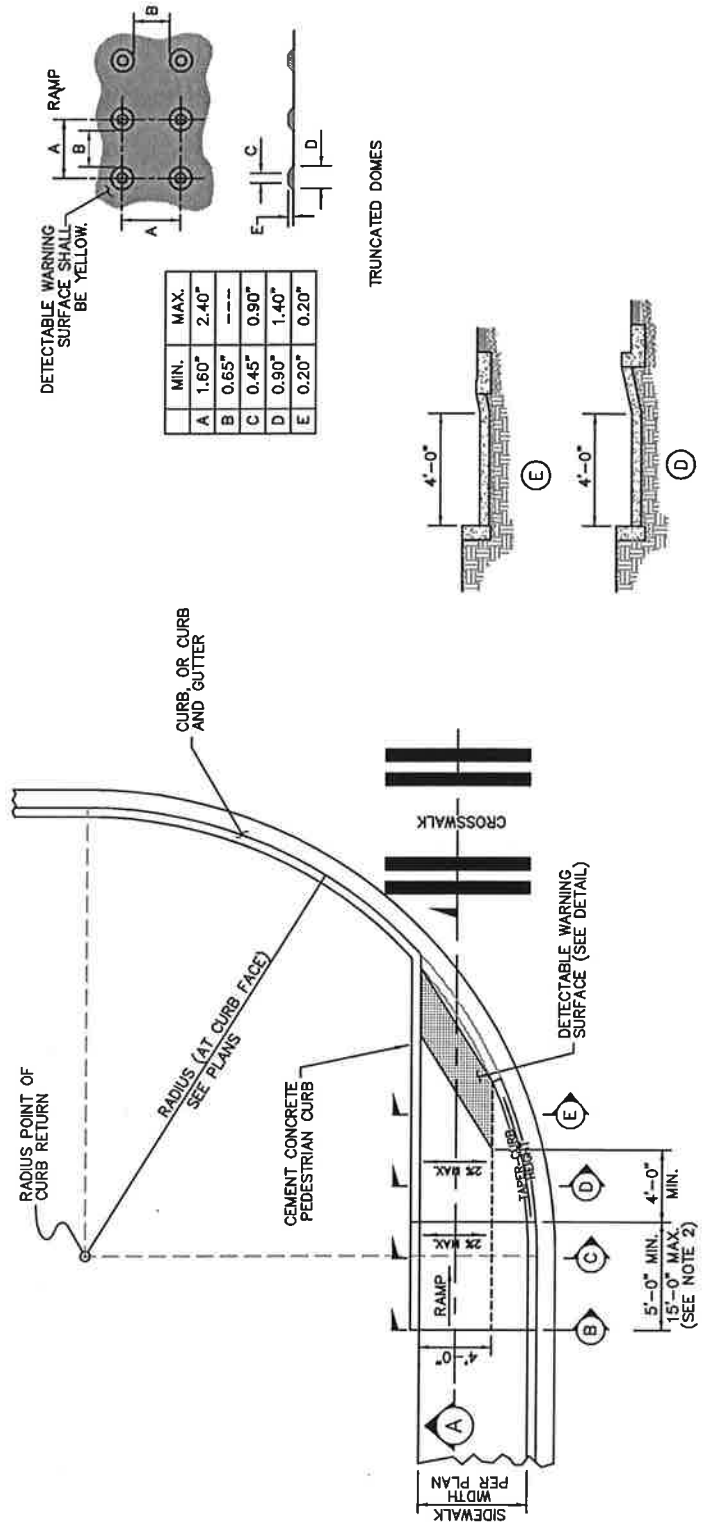


	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"



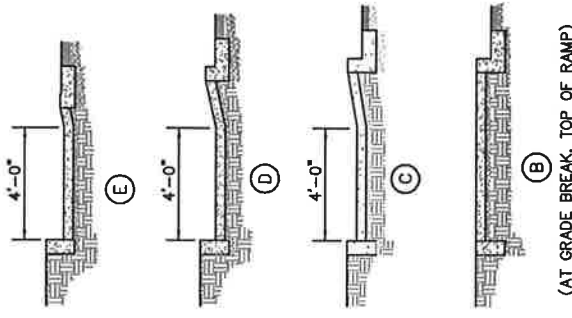
DETECTABLE WARNING PATTERN DETAIL

REV. MAR 2011

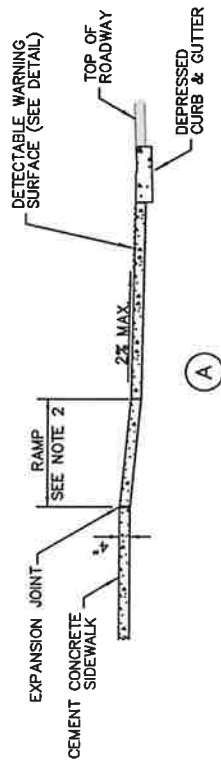


	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	---
C	0.45"	0.90"
D	0.90"	1.40"
E	0.20"	0.20"

TRUNCATED DOMES



(AT GRADE BREAK, TOP OF RAMP)



NOTES:

- DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTANANCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
- THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.

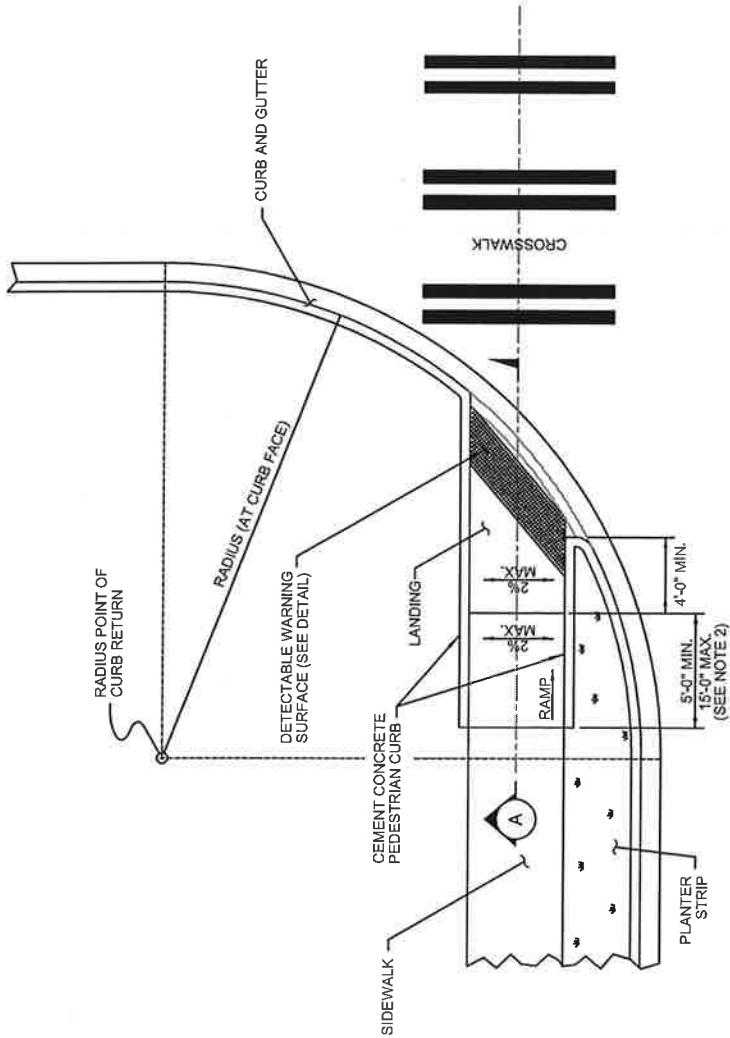
FEB. 2013

DWG. NO.
3-10

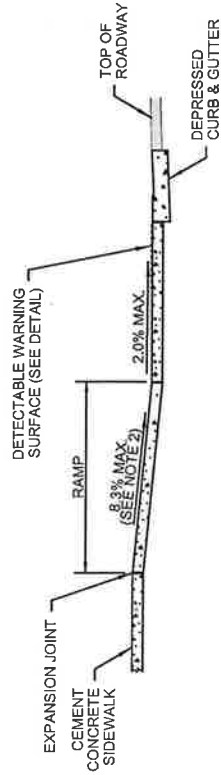
**SINGLE DIRECTION CURB RAMP
WITHOUT PLANTER STRIP**

PUBLIC WORKS



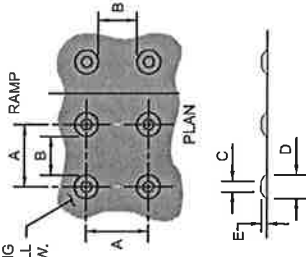


PLAN VIEW
SIDEWALK RAMP
PLAN



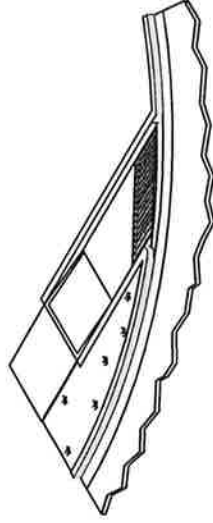
SECTION A

DETECTABLE WARNING SURFACE AREA SHALL BE YELLOW.



	MIN.	MAX.
A	1.60"	2.40"
B	0.65"	—
C	0.45"	0.90"
D	0.90"	1.40"
E	0.20"	0.20"

TRUNCATED DOMES
DETECTABLE WARNING
SURFACE DETAIL



ISOMETRIC VIEW

NOTES:

1. DO NOT PLACE GRATINGS, JUNCTION BOXES, ACCESS COVERS OR OTHER APPURTENANCES IN FRONT OF THE RAMP OR ON ANY PART OF THE CURB RAMP OR LANDING.
2. THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP SLOPES. WHEN APPLYING THE 15 FOOT MAX. LENGTH, THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE.

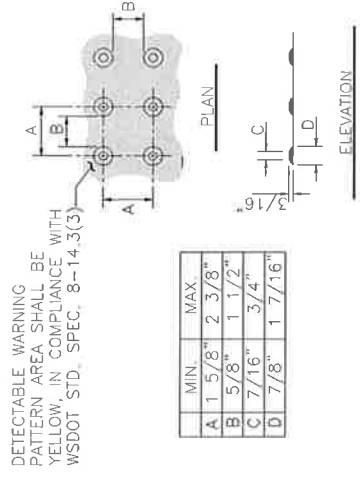
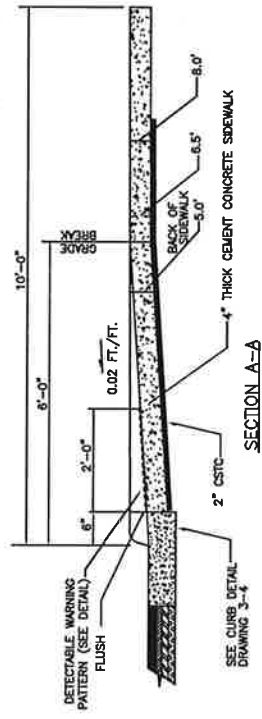
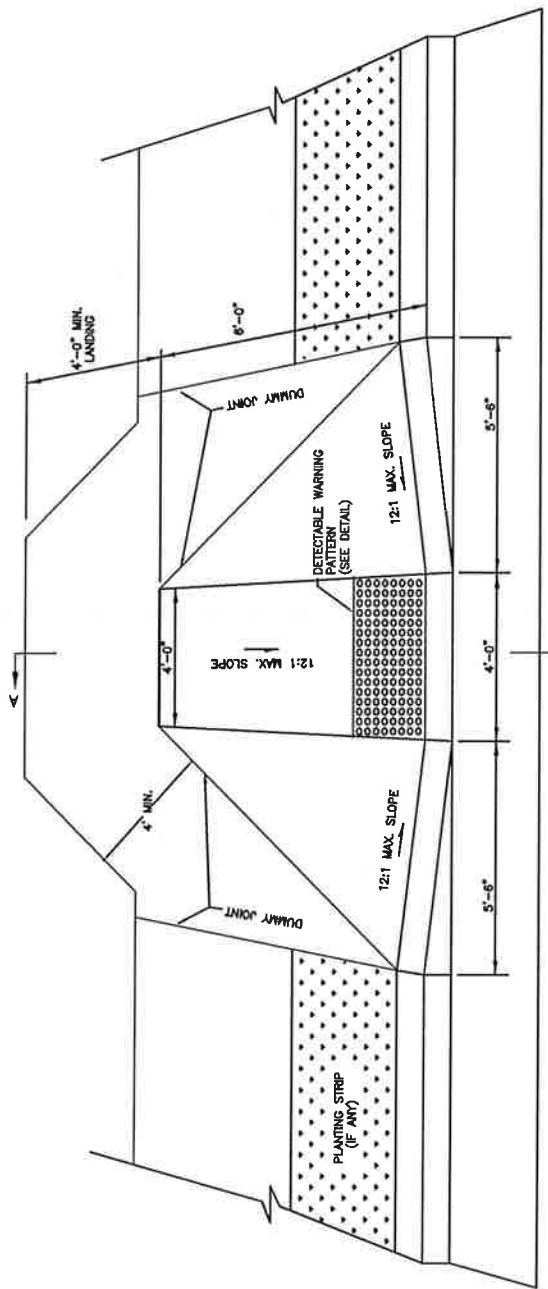
REV. JAN 2013

DWG. NO.
3-10A

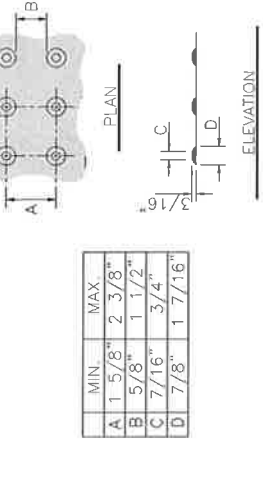
SINGLE DIRECTION CURB RAMP
WITH PLANTER STRIP

PUBLIC
WORKS





DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, IN COMPLIANCE WITH WSDOT STD. SPEC. 8-14.3(3)



- NOTES:
- RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCL. HYDRANTS, POLES, AND INLETS.
 - RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
 - WHEN RAMP IS CONSTRUCTED ON ONE SIDE OF THE STREET, RAMP SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET. SEE DWG. NO. 3-9.
 - ON ARTERIAL STREETS, IN GENERAL CASE, CURB RAMPS SHALL BE CONSTRUCTED TWO PER RADIUS, IN OR PREFERABLY ADJACENT TO THE MAIN PEDESTRIAN PATHS.
 - ON RESIDENTIAL STREETS OR WHERE UTILITIES ARE IN CONFLICT OR STREET GRADE EXCEEDS 4.0% CURB RAMPS MAY BE CONSTRUCTED ONE PER RADIUS, AT MIDPOINT OF CURB RETURN OR AT MAIN PEDESTRIAN PATH.

DETECTABLE WARNING PATTERN DETAIL

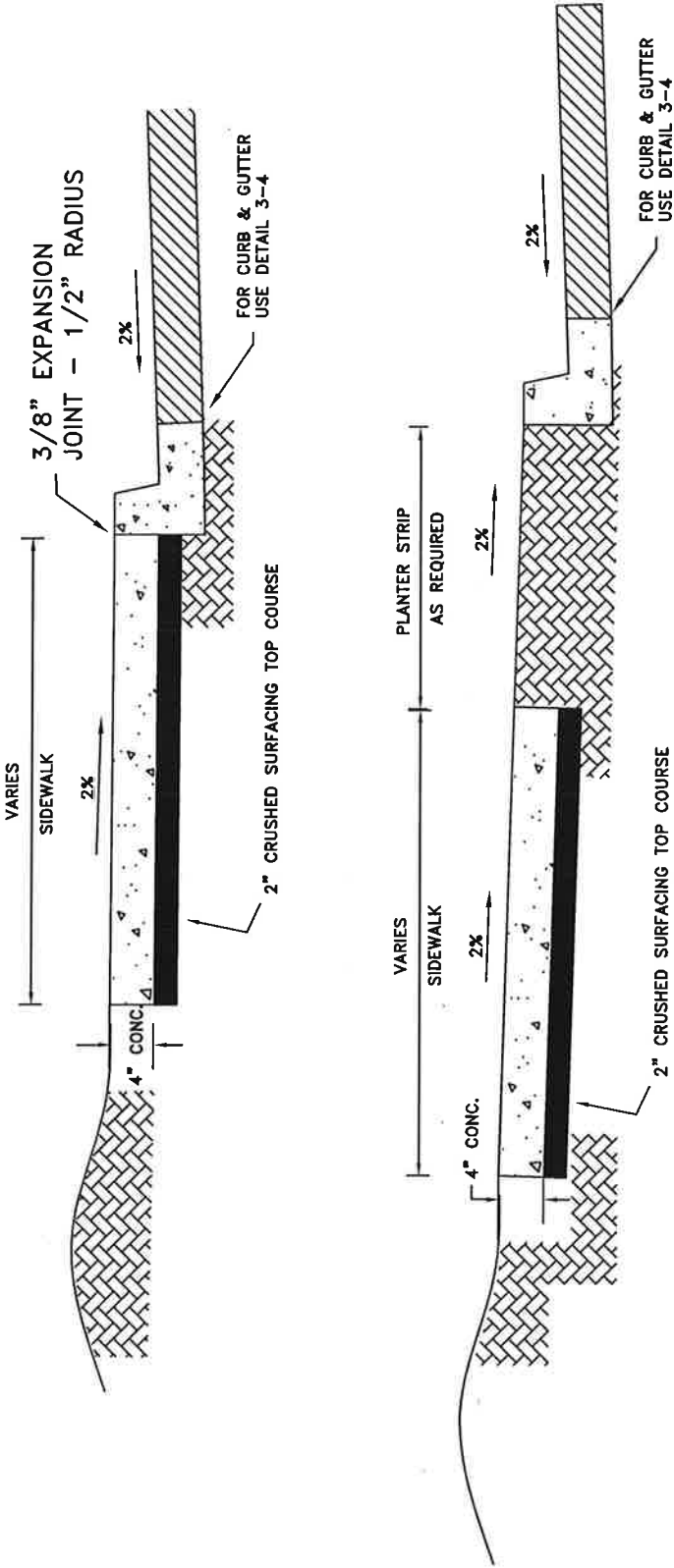
REV. MAR 2011



PUBLIC WORKS

CURB RAMP IN VERTICAL CURB

DWG. NO. 3-11



NOTES:

1. FOR JOINTS AND SCORING, SEE FEDERAL WAY STANDARD FOR SIDEWALK SPACING, EXPANSION JOINTS, AND SCORE MARKS.
2. SEE DETAILS 3-6, 3-6A, & 3-7 FOR MINIMUM DEPTH OF CONCRETE THROUGH DRIVEWAY SECTIONS.
3. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.
4. CONCRETE SHALL BE CLASS 3000, WSDOT SPEC. 8-14.

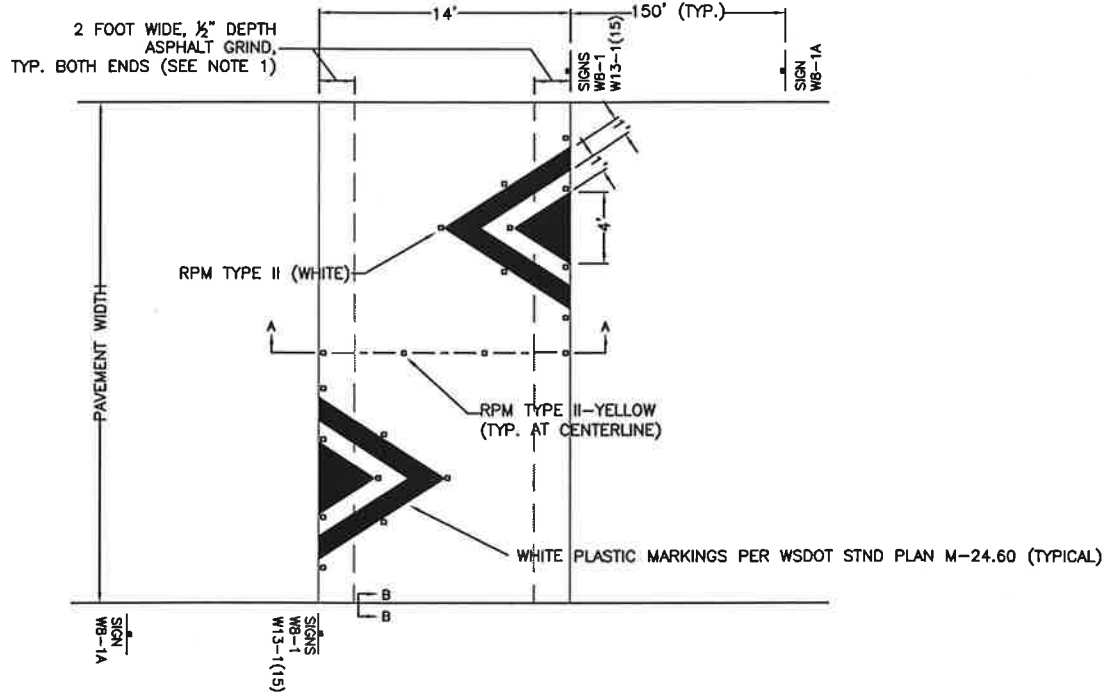
REV. MAR 2011



PUBLIC
WORKS

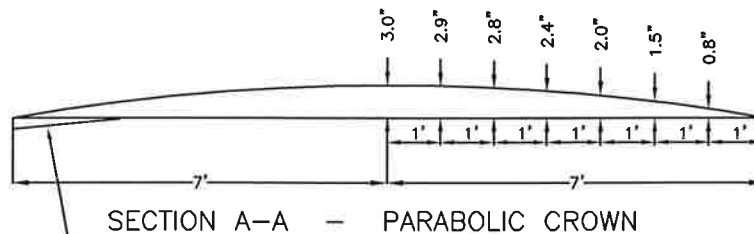
SIDEWALK SECTION

DWG. NO.
3-12

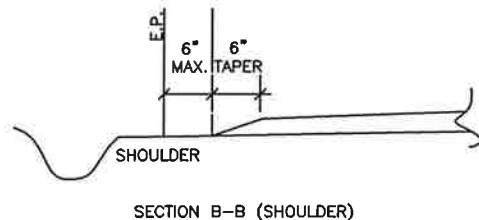
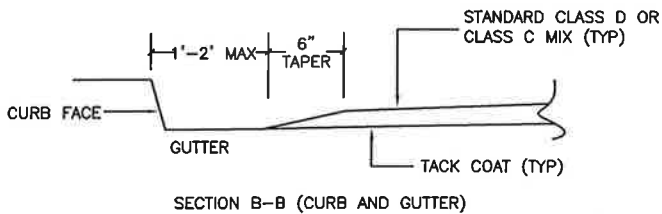


SIGN DESIGNATION / SIZE		
WB-1	BUMP	30" x 30"
WB-1A	BUMP AHEAD	30" x 30"
W13-1(15)	15 MPH ADVISORY PLAQUE	18" x 18"

NOTES:
 1) ADVANCE SIGNS USED ONLY FOR FIRST IN SERIES
 2) WHEN 2 OR MORE BUMPS, REPLACE WB-1A WITH WB-1A(S) (BUMPS AHEAD)

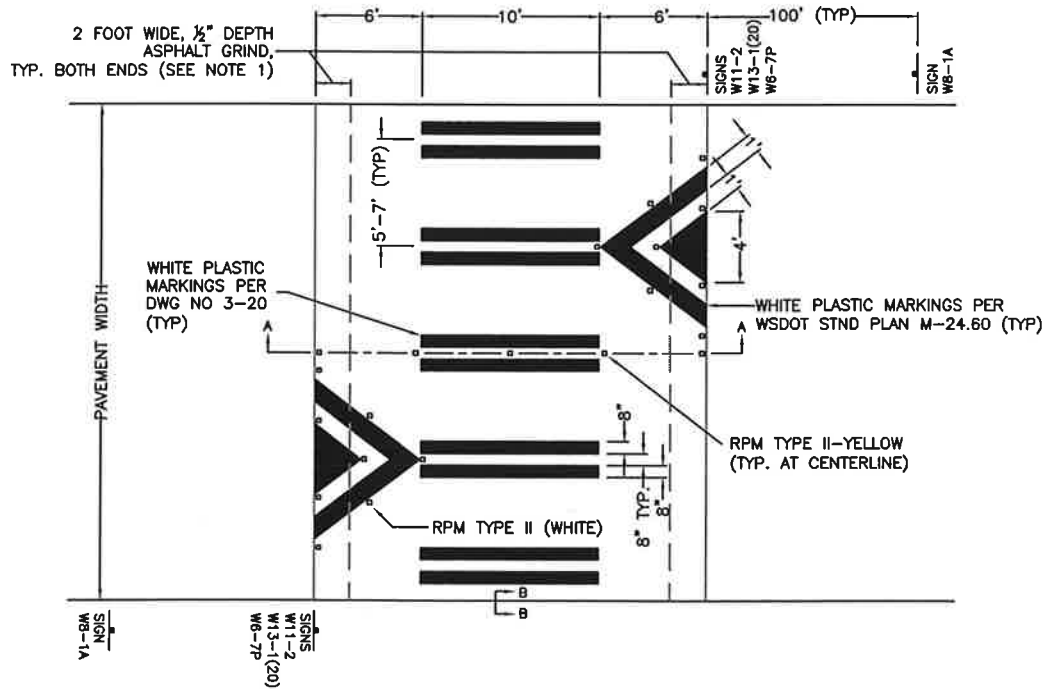


2 FOOT WIDE, 1/2" DEPTH ASPHALT GRIND, TYP. BOTH ENDS (SEE NOTE 1)



NOTE:
 1.) PRIOR TO SPEED HUMP CONSTRUCTION. THE ENGINEER MAY REQUIRE ASPHALT GRINDING IN ORDER TO PROVIDE A SMOOTH TRANSITION.

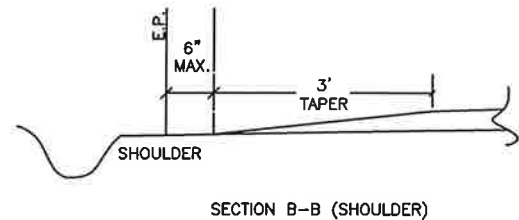
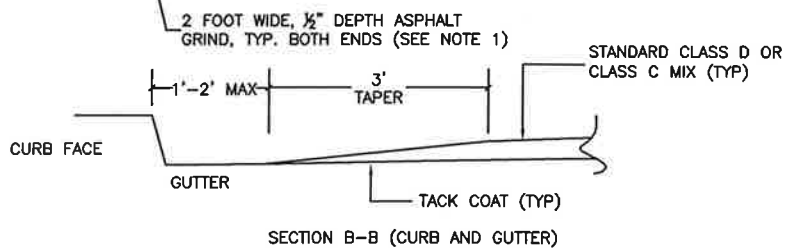
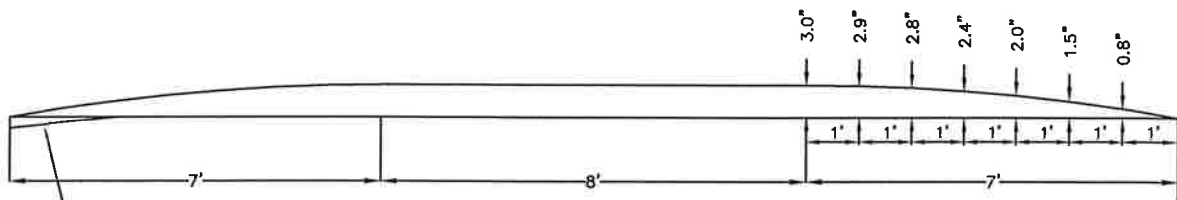
REV. NOV. 2014



SIGN DESIGNATION / SIZE		
W11-2	MAN WALKING	30" x 30"
W8-1A	BUMP AHEAD	30" x 30"
W13-1(20)	20 MPH ADVISORY PLAQUE	18" x 18"
W16-7P	ARROW DOWN	24" x 12"

NOTES:

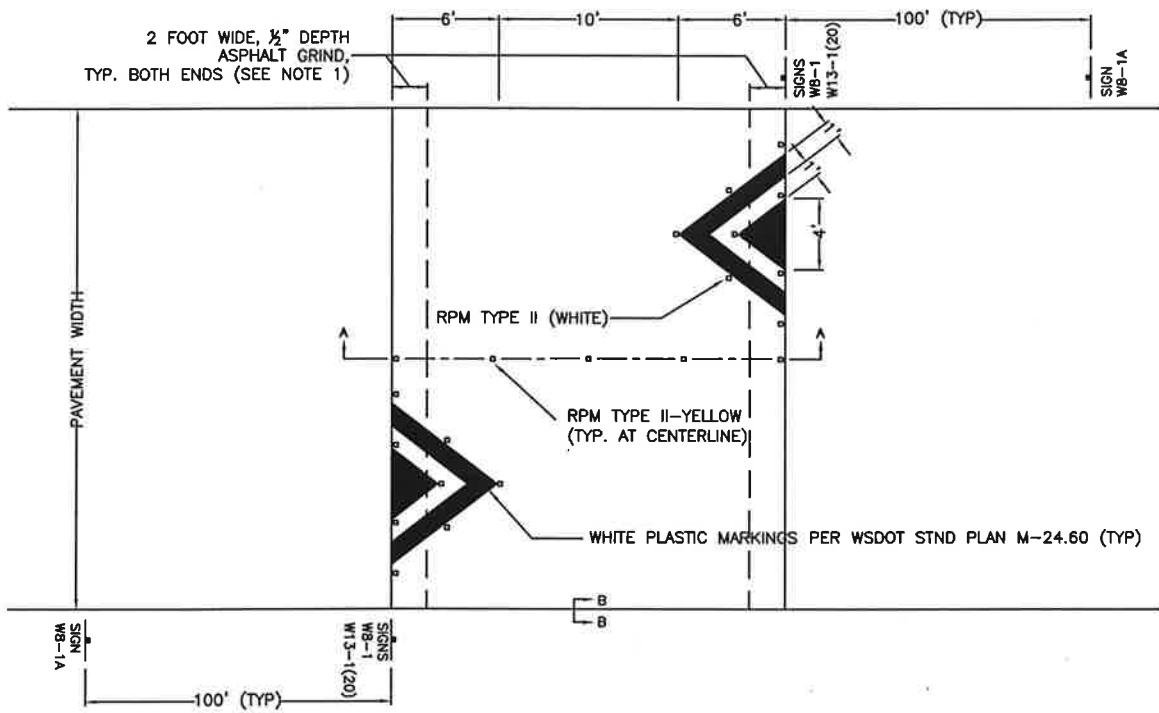
- 1) ADVANCE SIGNS USED ONLY FOR FIRST IN SERIES
- 2) WHEN 2 OR MORE BUMPS, REPLACE W8-1A WITH W8-1A(S) (BUMPS AHEAD)
- 3) USE YELLOW-GREEN SIGNS
- 4) USE S1-1 INSTEAD OF W11-2 FOR SCHOOL CROSSINGS



NOTE:

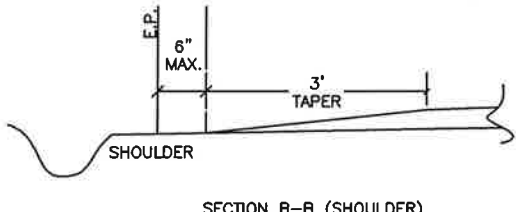
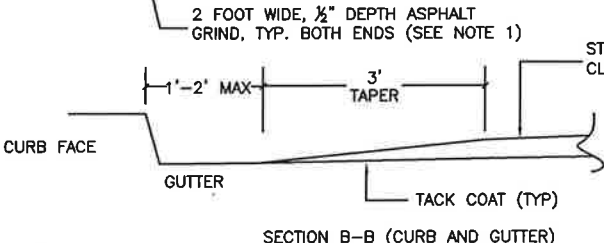
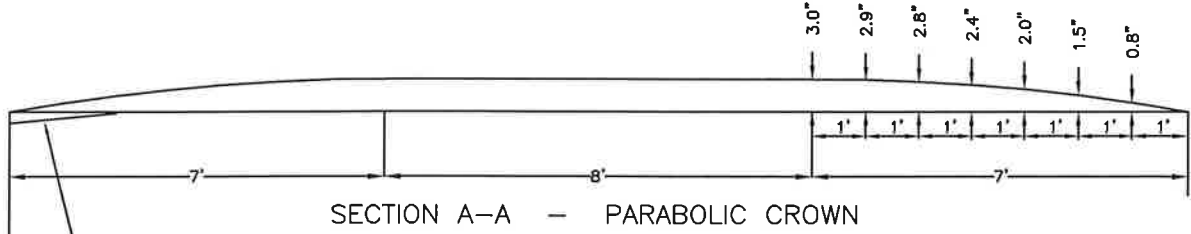
- 1.) PRIOR TO SPEED HUMP CONSTRUCTION, THE ENGINEER MAY REQUIRE ASPHALT GRINDING IN ORDER TO PROVIDE A SMOOTH TRANSITION.

REV. NOV. 2014



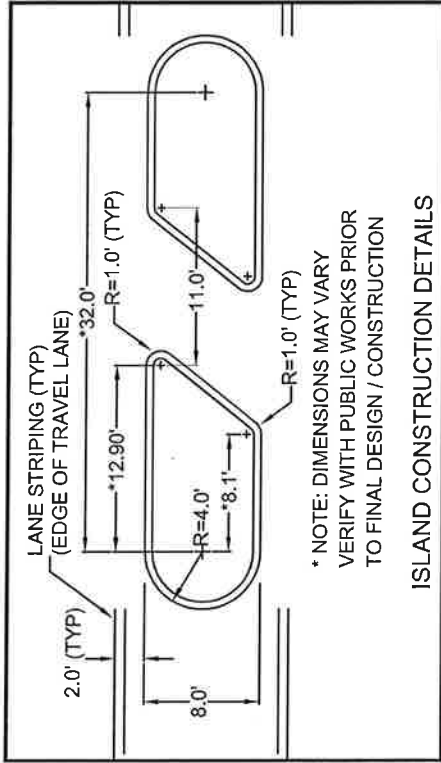
SIGN DESIGNATION / SIZE	
W8-1	BUMP 30" x 30"
W8-1A	BUMP AHEAD 30" x 30"
W13-1(20)	20 MPH ADVISORY PLAQUE 18" x 18"

NOTES:
 1) ADVANCE SIGNS USED ONLY FOR FIRST IN SERIES
 2) WHEN 2 OR MORE BUMPS, REPLACE W8-1A WITH W8-1A(S) (BUMPS AHEAD)

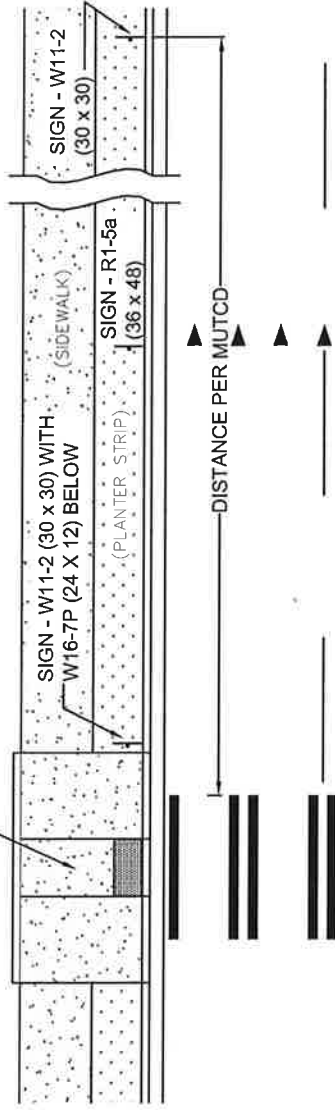


NOTE:
 1.) PRIOR TO SPEED HUMP CONSTRUCTION, THE ENGINEER MAY REQUIRE ASPHALT GRINDING IN ORDER TO PROVIDE A SMOOTH TRANSITION.

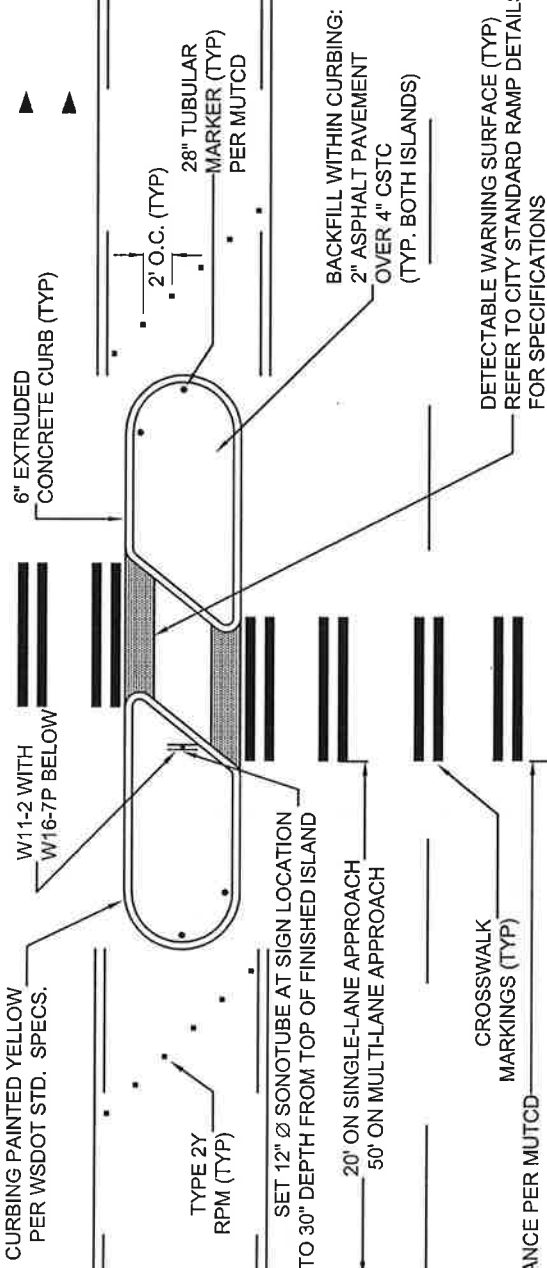
REV. NOV. 2014



INSTALL RAMP AS NECESSARY
REFER TO CITY STD. RAMP DETAILS



CURBING PAINTED YELLOW
PER WSDOT STD. SPECS.



YIELD SYMBOLS (TYP)
SEE WSDOT STD. PLAN M-24.60

REV. DEC 2014



PUBLIC
WORKS

**PEDESTRIAN REFUGE ISLAND
AND CROSSWALK - MID-BLOCK**

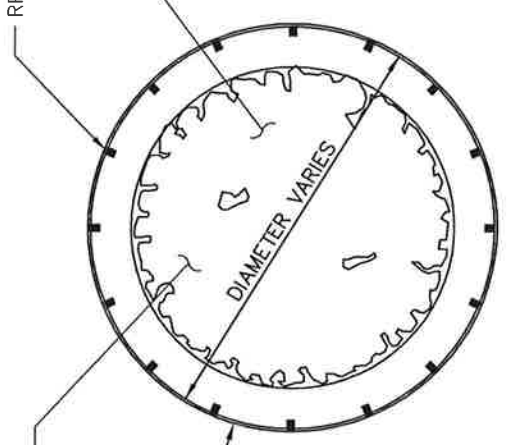
DWG. NO.
3-58

RPM TYPE 2YR:
 USE 12 FOR ≤ 15' DIA.
 USE 16 FOR < 20' DIA.
 USE 20 FOR ≥ 20' DIA.

ADJUST MANHOLES, VALVE
 BOXES, AND MONUMENT
 CASES TO NEW GRADE.

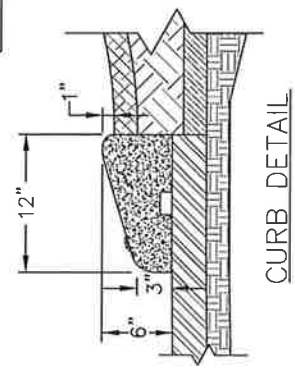
SIGN NOTES:

1. INSTALL ONE R6-4 CHEVRON SIGN PER INTERSECTION APPROACH, PER MUTCD FIGURE 2B-22.
2. INSTALL EACH R6-4 SIGN 2-FEET INSIDE THE EDGE OF ISLAND CURBING, ALIGNED WITH APPROACH LANES. FINAL LOCATION TO BE DETERMINED BY THE ENGINEER.
3. SIGNS MAY BE CONSOLIDATED TO FEWER POSTS FOR SMALLER DIAMETER CIRCLES, AS APPROVED BY THE ENGINEER.



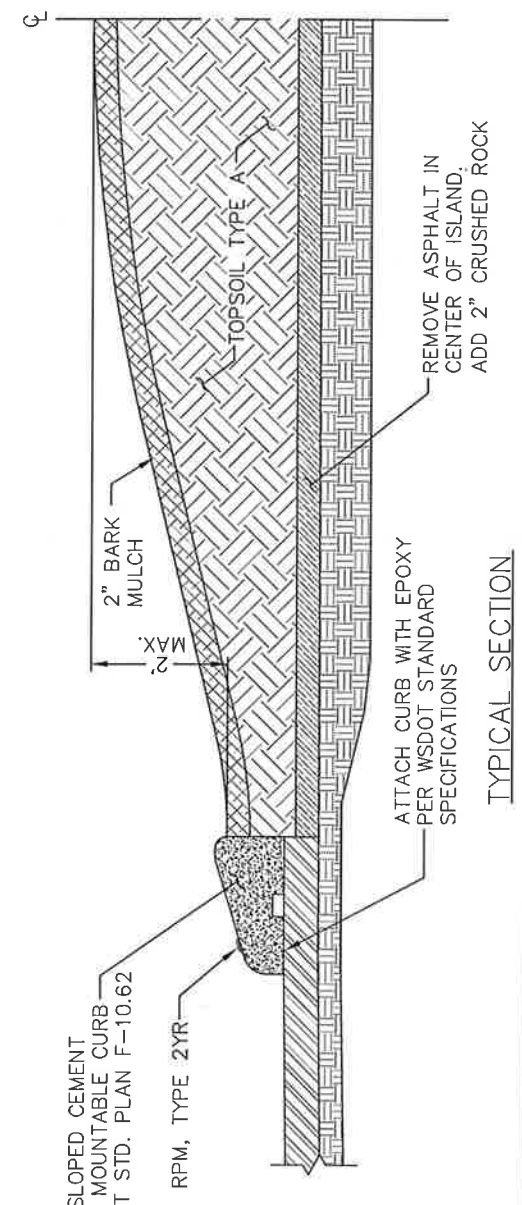
BACKFILL WITH TOPSOIL
 AND MULCH (SEE BELOW)

PRE-CAST
 CEMENT CONCRETE
 MOUNTABLE CURB
 (SEE DETAIL)



CURB DETAIL

TYPICAL TRAFFIC CIRCLE



PRECAST SLOPED CEMENT
 CONCRETE MOUNTABLE CURB
 PER WSDOT STD. PLAN F-10.62

RPM, TYPE 2YR

ATTACH CURB WITH EPOXY
 PER WSDOT STANDARD
 SPECIFICATIONS

REMOVE ASPHALT IN
 CENTER OF ISLAND.
 ADD 2\"/>

TYPICAL SECTION

NOTES:

1. LANDSCAPING TO BE DETERMINED BY TRANSPORTATION/PARKS STAFF.
2. MONUMENT PROTECTION/PRESERVATION: RAISE MONUMENT TO GRADE IN APPROPRIATE CASING.

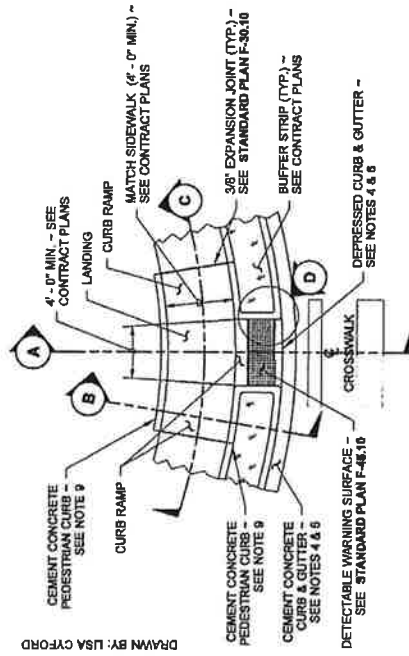
JAN 2015



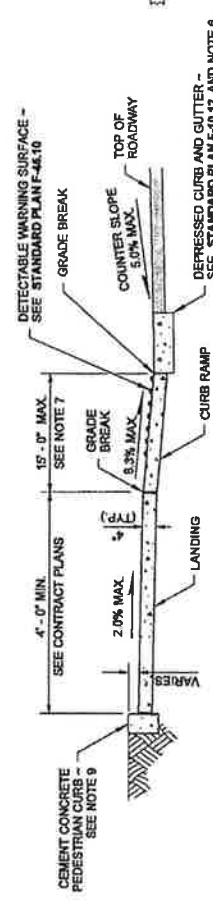
PUBLIC
 WORKS

TRAFFIC CIRCLE DETAILS

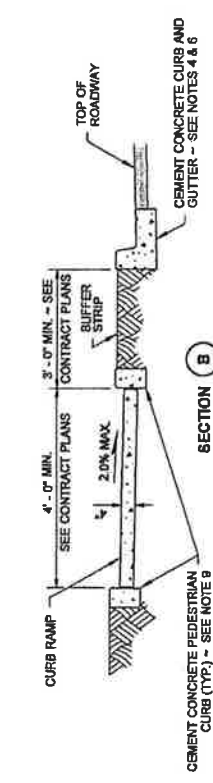
DWG. NO.
3-59



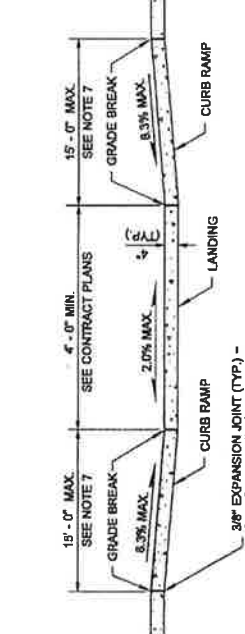
PLAN VIEW
TYPE COMBINATION
WITH BUFFER



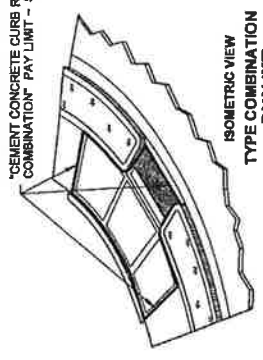
SECTION A



SECTION B

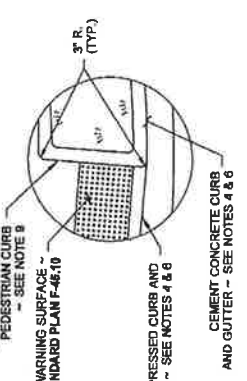


SECTION C



ISOMETRIC VIEW
TYPE COMBINATION
PAY LIMIT

DETAIL D
CURB RADIUS DETAIL



NOTES

1. Provide a separate Curb Ramp for each marked or unmarked crosswalk. Curb Ramp location shall be placed within the width of the associated crosswalk or as shown in the Contract Plans.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances in front of the Curb Ramp or on any part of the Curb Ramp or Landing.
4. See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb, Glider and Pedestrian Curb details.
5. See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
- 6.
7. The Curb Ramp maximum running slope shall not require the ramp length to exceed 15 feet to avoid chasing the slope indefinitely when connecting to steep grades. When applying the 15-foot max. length, the running slope of the Curb Ramp shall be as flat as feasible.
8. Curb Ramp, Landing and Flares shall receive broom finish. See Standard Specifications 8-14.
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

LEGEND
SLOPE IN EITHER DIRECTION



S. 30.13

COMBINATION CURB RAMP
STANDARD PLAN F-40.14-02

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Lisa Cyford
DATE 6/20/13
STATE ENGINEER EXAMINER
Washington State Department of Transportation