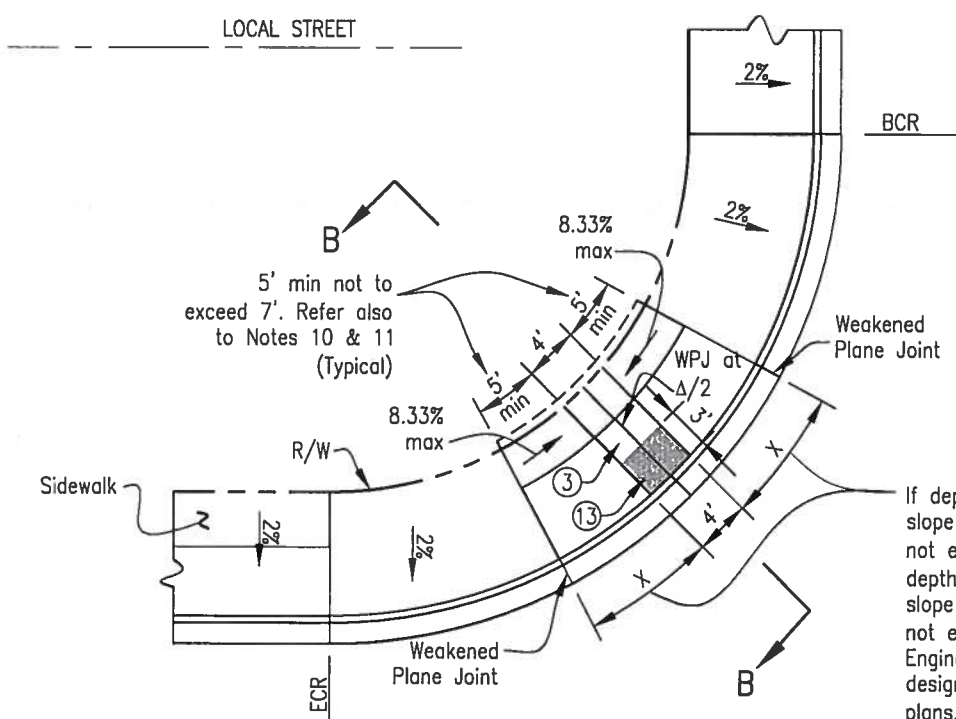


③ See Note 3
 ⑬ See Note 13

TYPE 1

If depth of landing is $\geq 3'$, the slope of the flared side must not exceed 8.33% ($X \leq 10'$). If depth of landing is $\geq 4'$, the slope of the flare side must not exceed 10% ($X \leq 8'$). Design Engineer shall determine and designate the dimensions on the plans. (Also refer to Note 10).



③ See Note 3
 ⑬ See Note 13

TYPE 2

If depth of landing is $\geq 3'$, the slope of the flared side must not exceed 8.33% ($X \leq 10'$). If depth of landing is $\geq 4'$, the slope of the flare side must not exceed 10% ($X \leq 8'$). Design Engineer shall determine and designate the dimensions on the plans. (Also refer to Note 10).

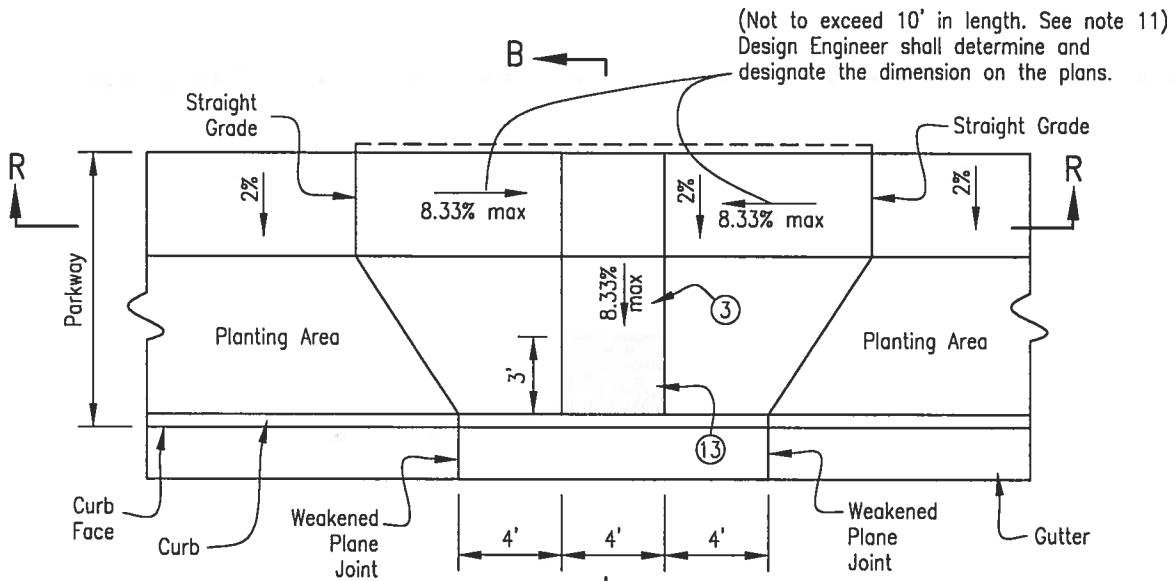


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SIDEWALK ACCESS RAMP

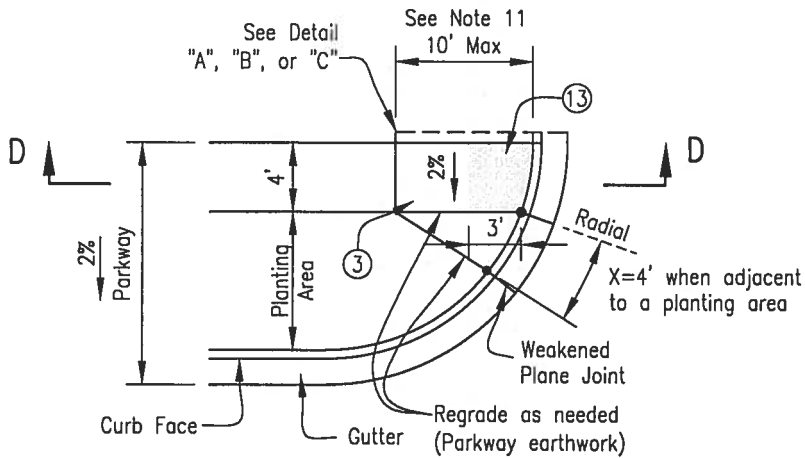
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TYPE 5

③ See Note 3

⑬ See Note 13



TYPE 6

③ See Note 3

⑬ See Note 13

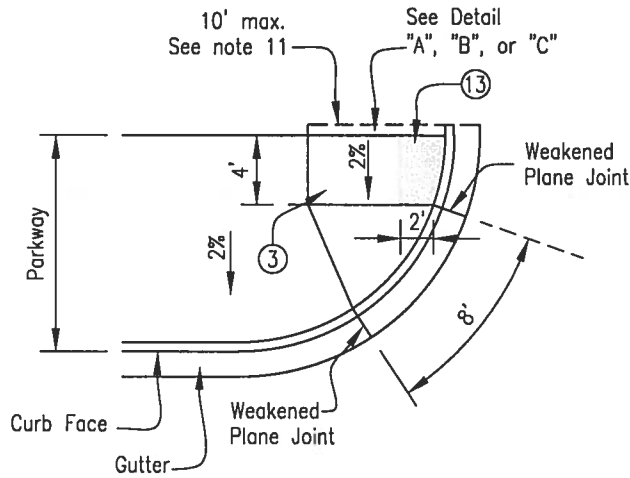


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SIDEWALK ACCESS RAMP

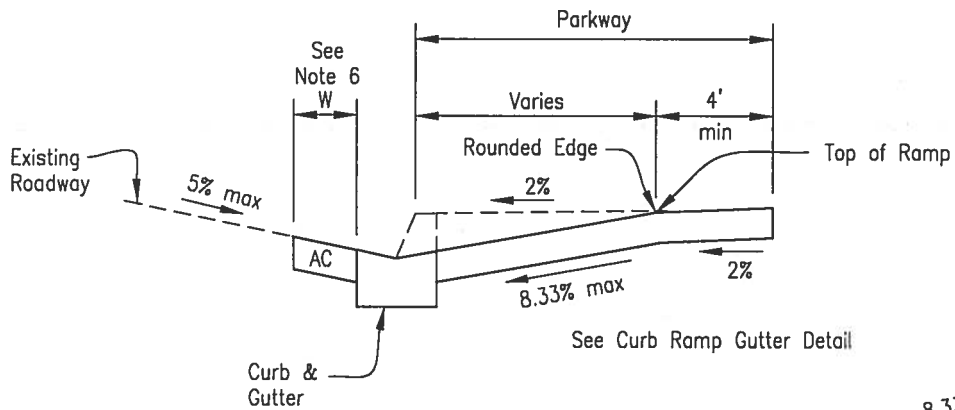
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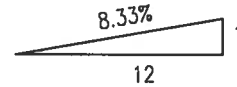
TYPE 7

(3) See Note 3

(13) See Note 13



SECTION A-A

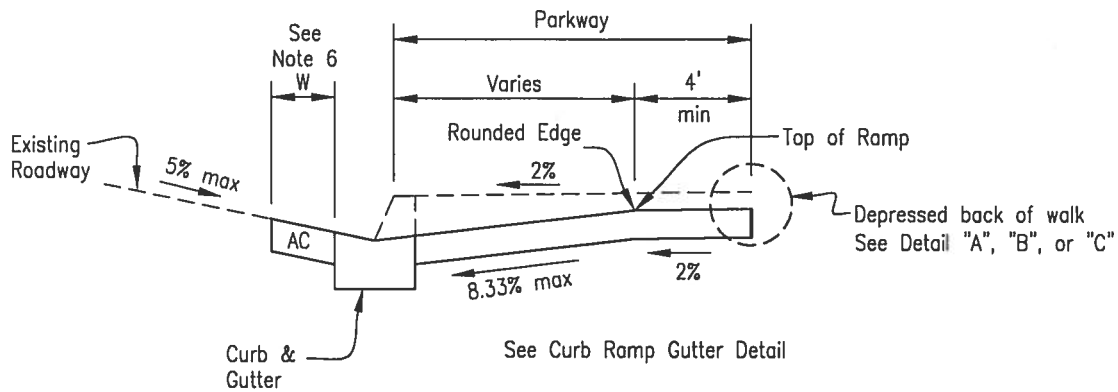


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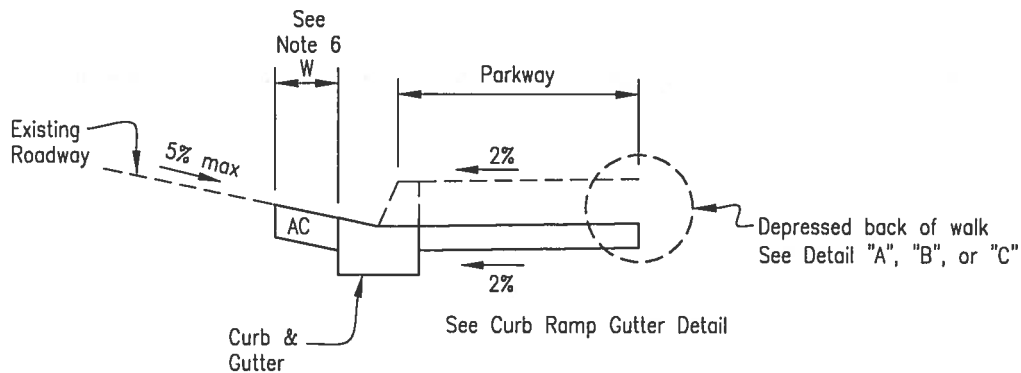
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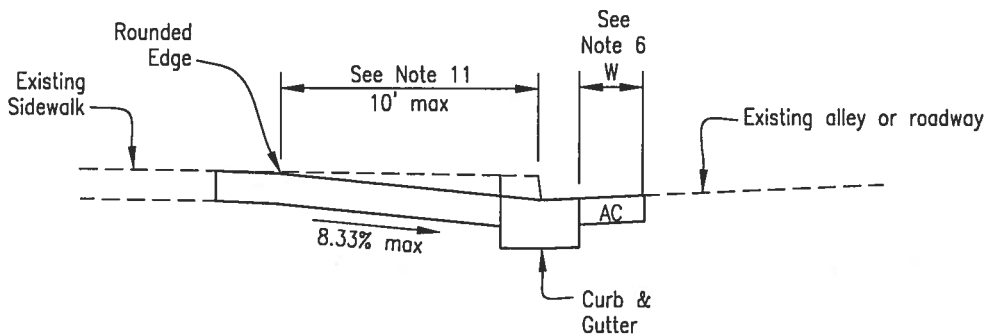
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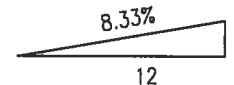
SECTION B-B



SECTION C-C



SECTION D-D

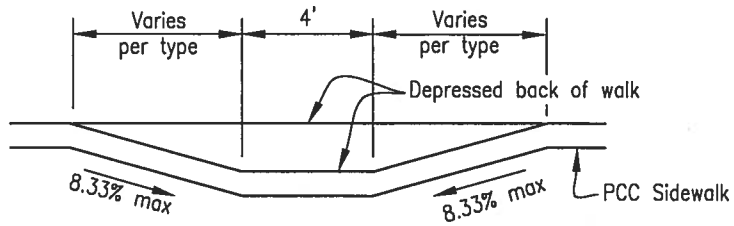


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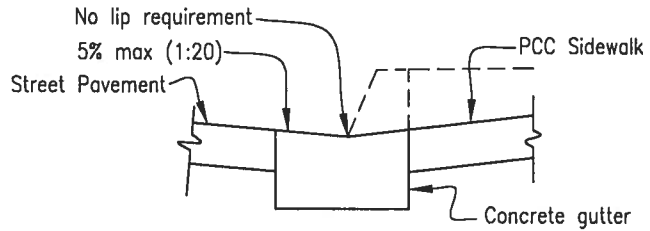
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SIDEWALK ACCESS RAMP

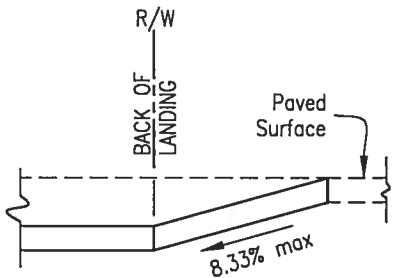
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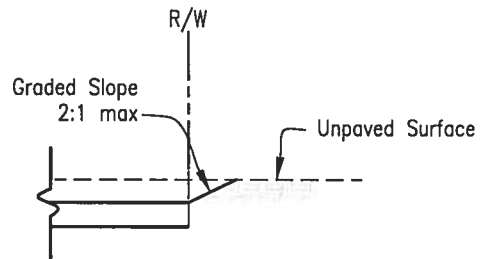
SECTION R-R



CURB RAMP GUTTER DETAIL

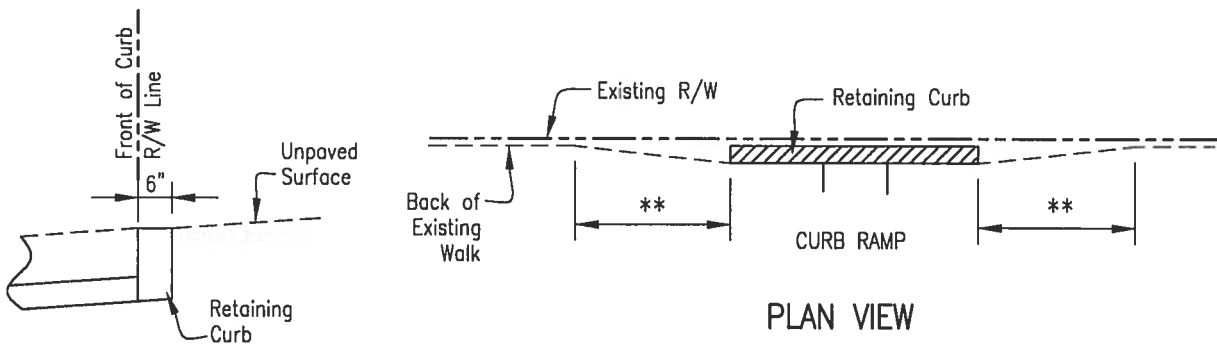


DETAIL "A"



DETAIL "B"

* On retrofit construction or cases where the retaining curb must be constructed inside existing road R/W, a "Back of Sidewalk" transition is required (see diagram below) to direct pedestrian traffic around the retaining curb.



DETAIL "C"

** 7.5' transition length for straight sidewalk alignment. At curb returns, transition length can terminate at BCR/ECR, provided it is not less than 5'; otherwise, the retaining curb must extend to the BCR/ECR and the 7.5' transition length be used.



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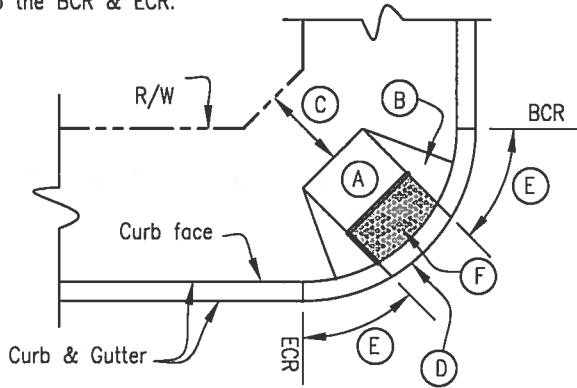
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NOTES:

1. $X=8.0'$ on curb with 8.0" curb face height. $X=6.0'$ on curb with 6.0" curb face height.
2. NOTE NOT USED.
3. The ramp surface shall have a transverse broomed surface texture.
4. Use Detail "A" if existing surface behind Right-of-Way is paved.
5. Use Detail "B" or "C" if existing surface behind Right-of-Way is unpaved.
6. $W=3.0'$ to retrofit existing sidewalk. New construction shall maintain the standard street crossfall.
7. A 10-foot minimum Gutter Edge Transition is required between Type A gutter (8.33% max) and the Curb Ramp Gutter (5% max gradient, as shown on Sheet 6, Curb Ramp Gutter) to improve vehicular ridability. At curb return location, transition shall be to the BCR & ECR.



- (A) Curb Ramp
- (B) Flared Side Slopes
- (C) Landing Area
- (D) Curb Ramp Gutter Edge
- (E) Gutter Edge Transition
- (F) Detectable Warning Surface

8. For construction of curb ramp on an existing walkway area where space limitation prohibits the use of 8.33% (1:12) slope, a steeper slope can be used (Federal Register/Vol. 56, No. 144/Friday July 26, 1991, Section 4.1.6 (3)(a)).
 - (i) A slope between 10.0% (1:10) and 8.33% (1:12) is allowed for a maximum rise of 6 inches.
 - (ii) A slope between 12.5% (1:8) and 10% (1:10) is allowed for a maximum rise of 3 inches. A slope steeper than 12.5% (1:8) is not allowed.
9. Type 6 shall not be used at locations where marked crosswalk exists in both directions.
10. If depth of landing is $\geq 3'$, the maximum gradient at the flared side slope shall not exceed 8.33% ($X \leq 10'$). In no instance, however, shall the maximum flared side slope length (X) exceed 10' (see Note below). The Design Engineer shall determine and designate the dimensions on the plans.

Note: In some cases where the street grade is steep, the 8.33% criteria would require a substantial transition length for the flared side slope (transition from 0-height curb to standard height curb). Limiting the transition length to 10' will minimize safety impact to the overall public.

A standard height curb & gutter provides the following safety features:

 - Maintains roadway drainage at the flowline location.
 - Maintains vehicular traffic flow and safety at curb returns and parkway area.
 - Protects pedestrian from vehicular traffic.

Subpart A, Section 36.302(a) "Modifications in Policies, Practices, or Procedures" of the "Americans with Disabilities Act" (ADA) and Section 4451(f) of the California Government Code allows modifications to the requirements in order to maintain overall public safety.
11. At hillside development, street grade can be as steep as 6% for arterial highways and 10% for local streets. To maintain an 8.33% ramp would require a substantial walkway transition length. In cases where the street grade is steeper than 8.33%, it would be impossible for the transition curb or transition walkway to join the normal height of curb or sidewalk. Furthermore, the depressed walkway would create safety issues such as water ponding behind the curb and a siltation problem on the sidewalk. Hence, modification to the ADA requirement is allowed per Subpart A, Section 36.302(a) of the "ADA" and Section 4451(f) of the California Government Code.
12. Dual ramps per American Public Works Association (APWA) Standard Plans, may be used on a curb return upon the approval of the City Engineer.
13. Detectable Warning Surface (Truncated Domes) shall comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Min. 3' deep by ramp width located so that edge nearest curb line is 6 inches min. and 8 inches max. from the curb line face. Dome size shall have a base dia. of 0.9 inch min. to 1.4 inches max., top dia. of 50 % of the base min. to 65% of the base dia. max., and a height of 0.2 inch. Dome spacing shall have a center-to-center spacing of 1.6 inches min. and 2.4 inches max., and a base-to-base spacing of 0.65" min., measured between the most adjacent domes on a square grid. Detectable warning surface shall have a min. 70% contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light. The truncated domes shall be manufactured by Safety Step Products (www.safetysteptd.com) or an approved equal.
14. Concrete shall be class 520-C-2500.
15. For construction within the Old Towne Area, the concrete color and finish shall be regular concrete mix with an application of water-based top-surface retarder that is washed away using pressured water for a sand blast finish effect. The retarder shall be Grade 05 - Powder Blue Violet (color coded) per Grace Construction Products (www.graceconstruction.com (877) 423-6491) or approved equal.



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SIDEWALK ACCESS RAMP

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