
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index (Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: May 12, 2021
Originator: Brad Bradley
Phone: (850) 414-4295
Email: Brad.Bradley@dot.state.fl.us

Standard Plans:

Index Number: 522-002
Sheet Number (s): 1 and 4 of 7
Index Title: Detectable Warnings and Sidewalk Curb Ramps

Summary of the changes:

Sheet 1: Added Note 2.C.

Sheet 4: Changed back of sidewalk in CR-D detail to accommodate 4'-0" minimum dimension.

Commentary / Background:

CR-D is essentially half of a CR-C. The CR-C ramp currently shows the 4'-0" minimum dimension at the back of sidewalk to provide a large-enough level landing footprint for wheelchair maneuverability. The CR-D, as currently depicted in the Standard Plans, does not provide an optimal configuration for users of mobility devices. See next page for additional information.

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☐	☒	Basis of Estimates Manual –
☐	☒	Standard Specifications –
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
☒	☐	Redline Mark-ups
☐	☐	Proposed Standard Plan Instruction (SPI)
☐	☐	Revised SPI
☐	☐	Other Support Documents

Implementation:

☐ Design Bulletin (Interim)
☐ DCE Memo
☐ Program Mgmt. Bulletin
☒ FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

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Index Number: 522-002
Sheet Number (s): 1 and 4 of 7
Index Title:
Detectable Warnings and Sidewalk Curb Ramps

Additional Information, as needed:

For CR-D, provide 5'-0" standard (4'-0" minimum) dimension at back of sidewalk for the level landing at the bottom of the curb ramp (see figure). This provides the necessary plan area footprint for the level landing to allow for wheelchair maneuverability and change of direction. Otherwise, the footrest of a wheel chair would contact the curb face while the rear wheels are still on the ramp's sloped surface -- potentially resulting in an unstable/tip-over condition.

Ideally, the resulting curb return would remain parallel to and in alignment with the direction of the crossing, and that is why 5' standard is proposed with a 4' minimum.

GENERAL NOTES:

1. Cross Slopes and Grades:

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

2. Curb, Curb and Gutter and/or Sidewalk:

- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.

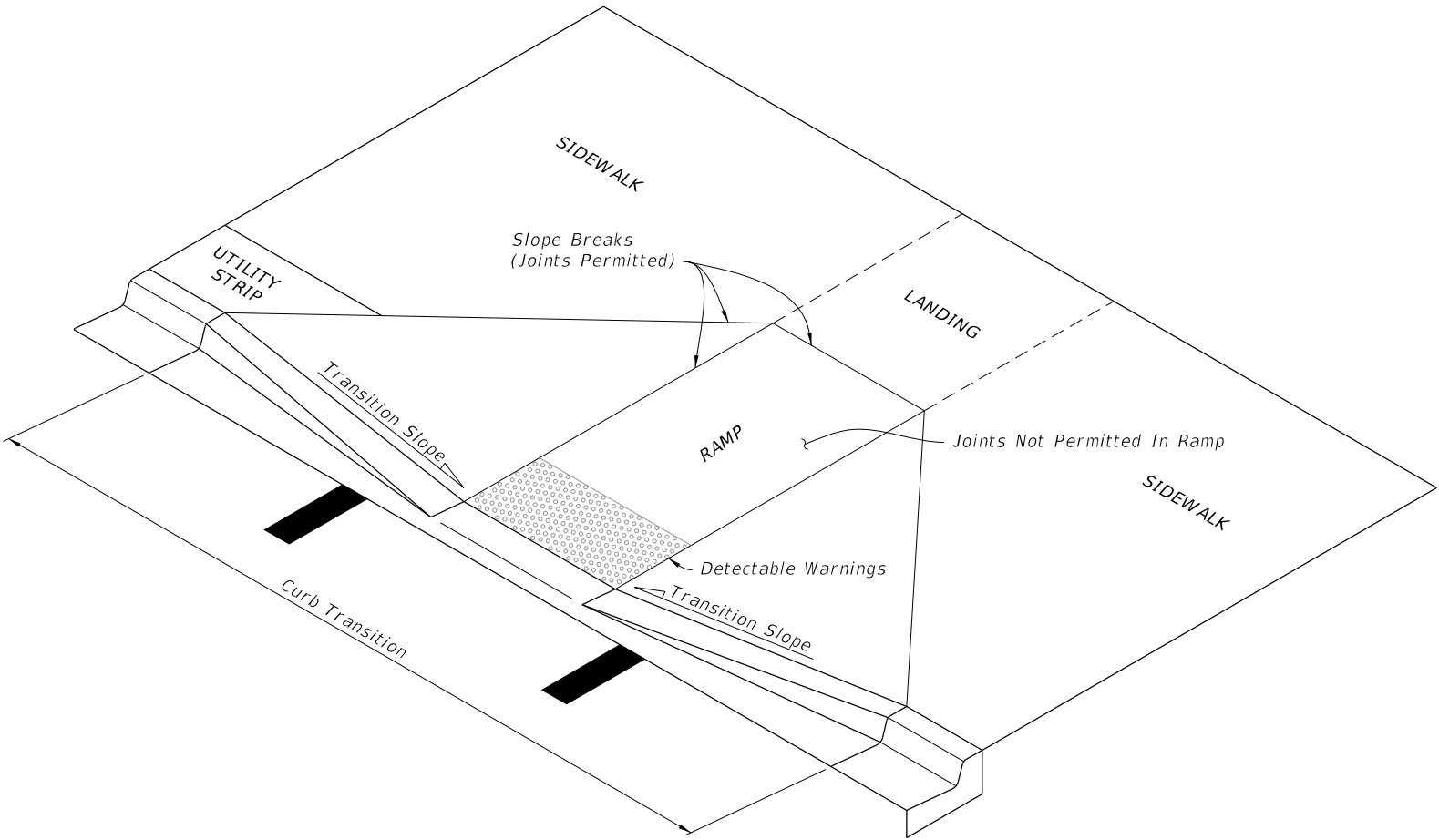
3. Curb Ramp Alpha-Identification:

- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

4. Detectable Warnings:

- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

ADDED NOTE 2.C:
Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.



CURB RAMP NOMENCLATURE



FY 2021-22
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

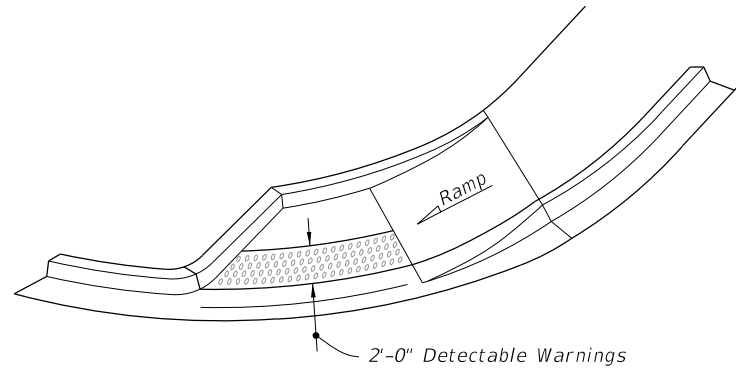
INDEX
522-002

SHEET
1 of 7

LAST
REVISION
11/01/20

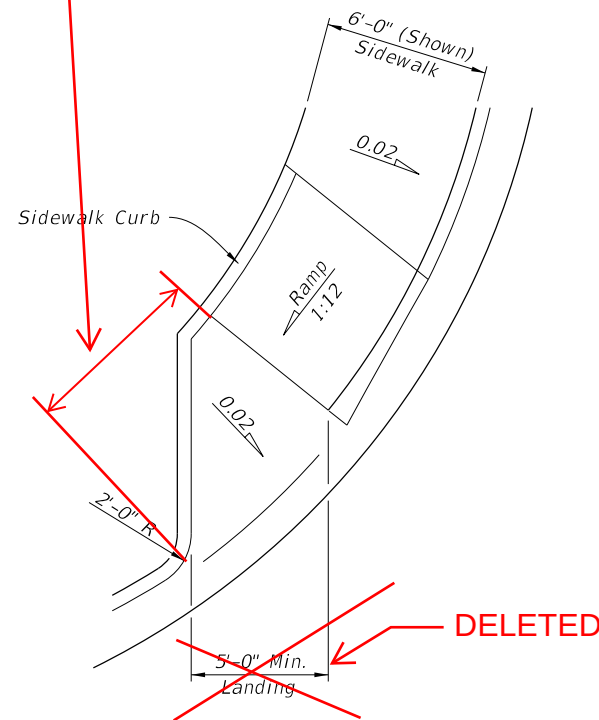
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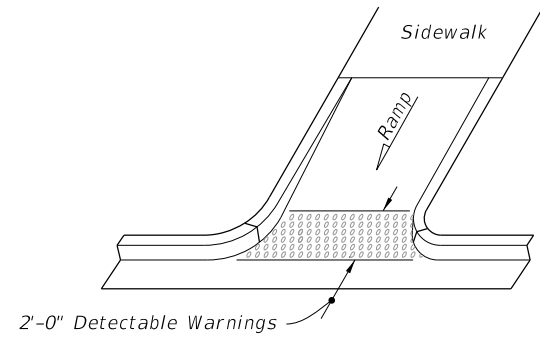
ISOMETRIC VIEW

Changed back of sidewalk to accommodate a 4'-0" Min. Dimension

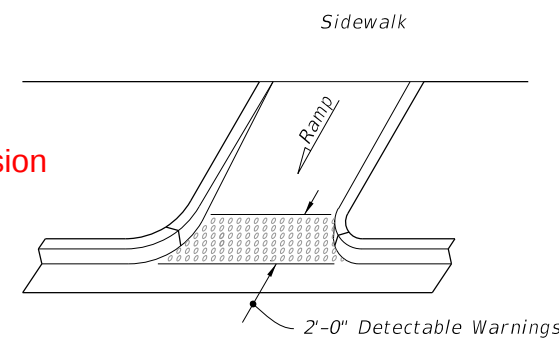


PLAN VIEW

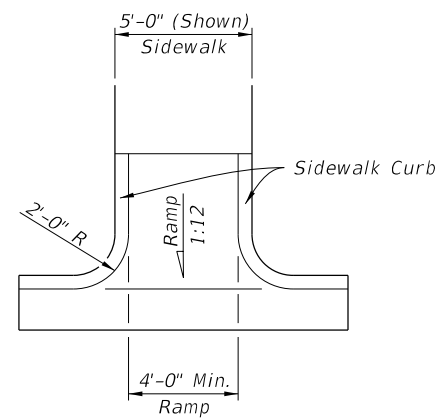
CR-D



OPTION A

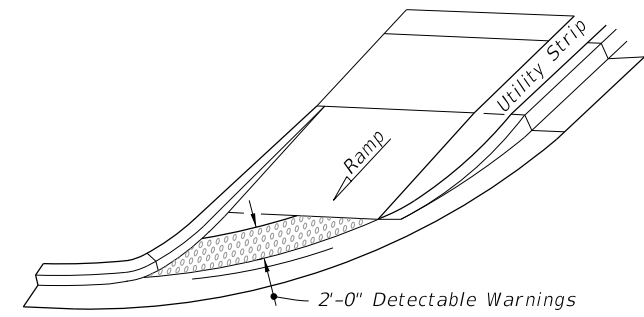


OPTION B
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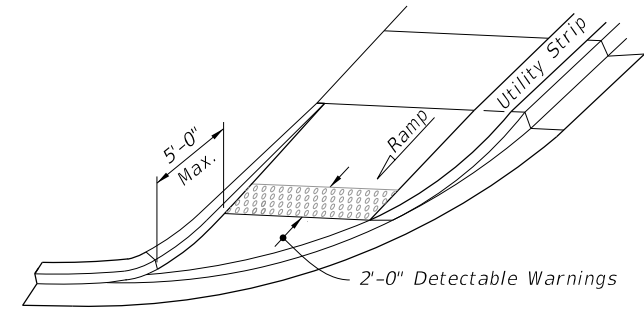


PLAN VIEW

CR-E

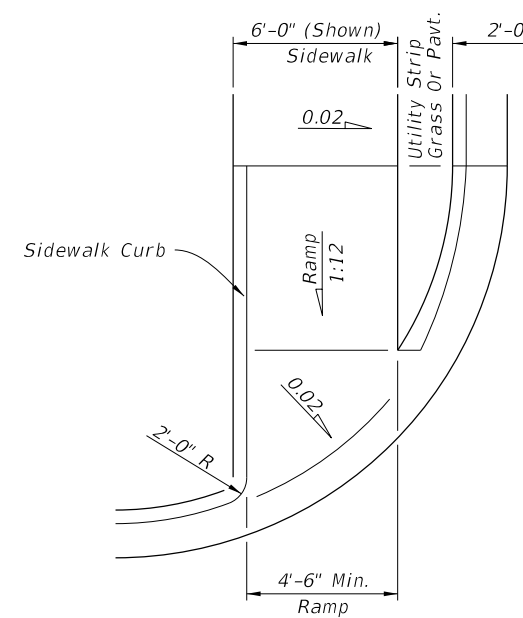


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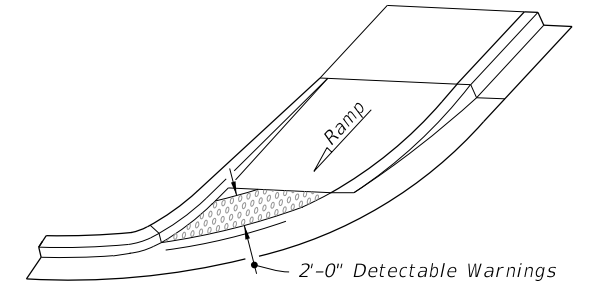
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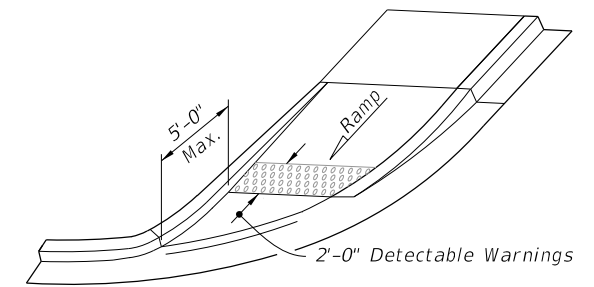


PLAN VIEW

CR-F

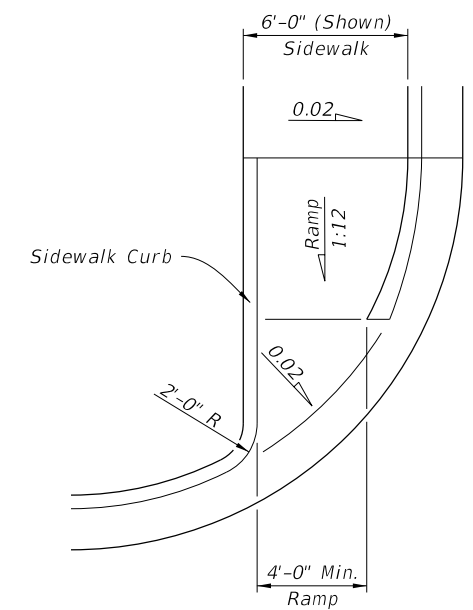


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

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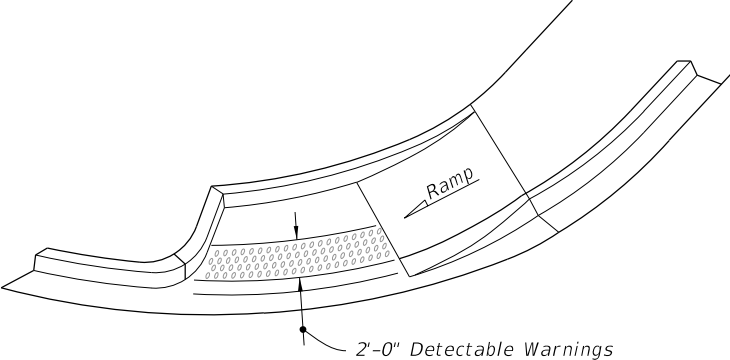
LAST REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/2021	11/01/21				522-002	4 of 7

1. Cross Slopes and Grades:

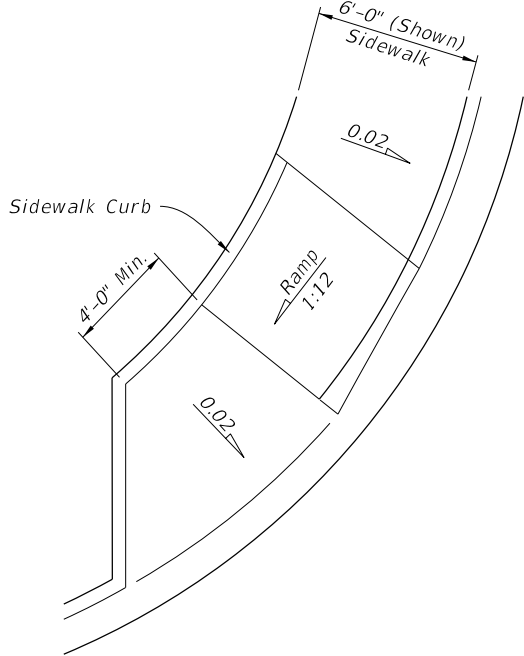
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- A 3D perspective diagram illustrating the design of a sidewalk ramp and landing transition. The diagram shows a sidewalk with a ramp section and a landing section. Key features and labels include:
- UTILITY STRIP**: Located on the left side of the ramp.
 - SIDEWALK**: Labels for the flat sections on either side of the ramp and landing.
 - RAMP**: The sloped section connecting the sidewalk to the landing.
 - LANDING**: The flat section at the top of the ramp.
 - Transition Slope**: Indicated by arrows pointing to the slopes at the beginning and end of the ramp.
 - Slope Breaks (Joints Permitted)**: Indicated by arrows pointing to the joints on the sidewalk sections.
 - Joints Not Permitted In Ramp**: A note indicating that joints are not allowed within the ramp section.
 - Detectable Warnings**: A textured rectangular area on the ramp, indicated by an arrow.
 - Curb Transition**: A label for the curb area at the bottom left.

= CURB RAMP NOMENCLATURE

7/19/2021 1:11:19 PM

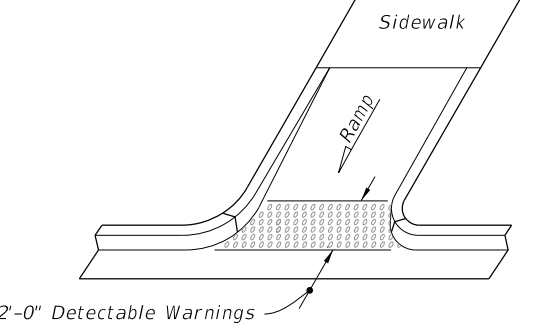


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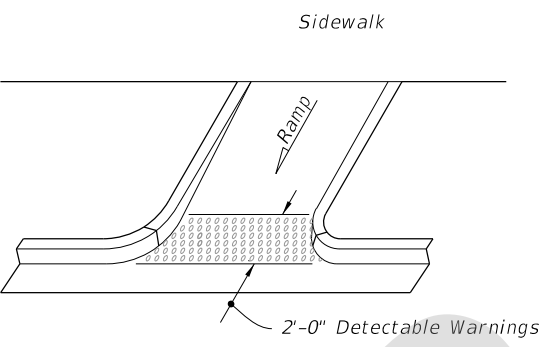


PLAN VIEW

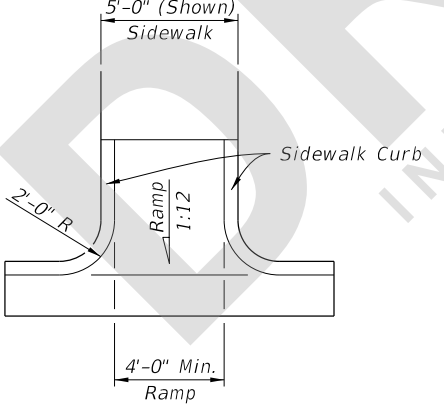
CR-D



OPTION A

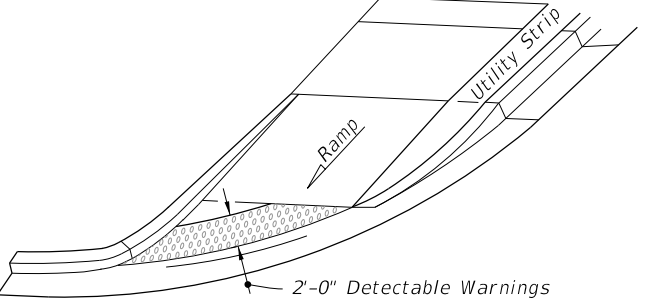


OPTION B
ISOMETRIC VIEW

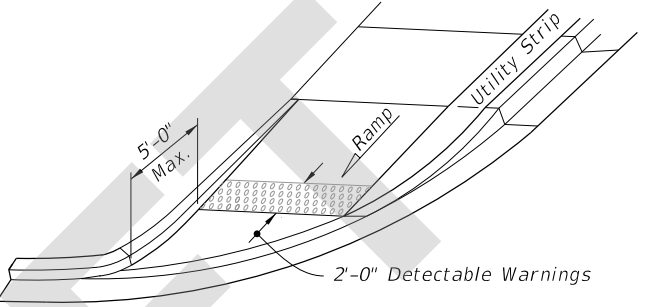


PLAN VIEW

CR-E

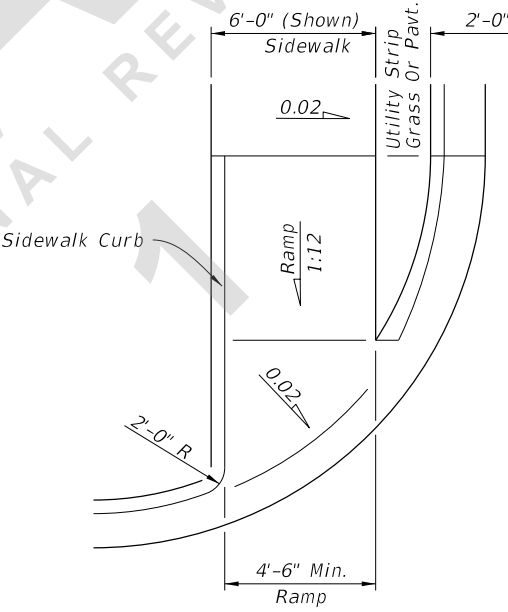


OPTION A



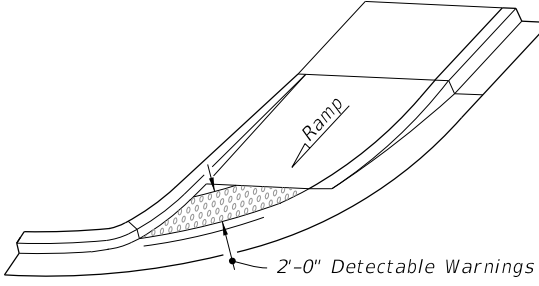
OPTION B

ISOMETRIC VIEW

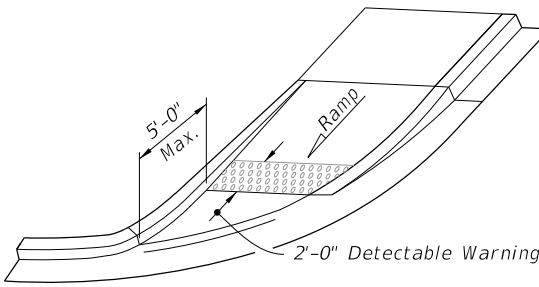


PLAN VIEW

CR-F

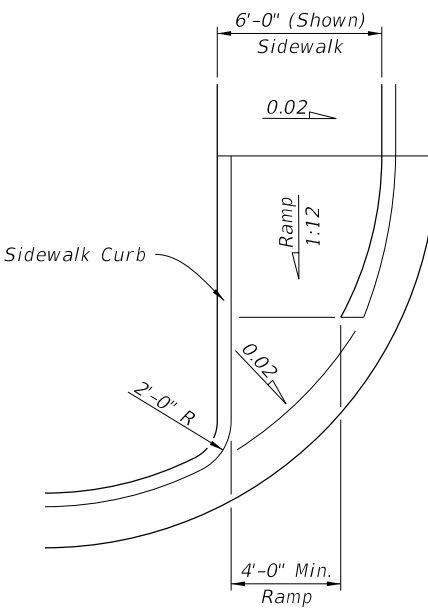


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G