

ORIGINATION FORM

Proposed Revisions to a Design Standards Index
(Please provide all information – Incomplete forms will be returned)

Contact Information:

Date: March 8, 2017
Originator: **Derwood Sheppard**
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Design Standards:

Index Number: **304**
Sheet Number (s): 1 of 8
Index Title: Detectable Warnings And Sidewalk Curb Ramps

Summary of the changes:

Sheet 1: Added Note 1.D to the General Notes; Clarified Slope Breaks and Joints in CURB RAMP NOMENCLATURE.

Commentary / Background:

Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes | No | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Design Standards – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Plans Preparation Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes | N/A | |
|-------------------------------------|--------------------------|-------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Proposed IDS |
| <input type="checkbox"/> | <input type="checkbox"/> | Revised IDS |
| <input type="checkbox"/> | <input type="checkbox"/> | Other Support Documents |

Implementation:

- Design Bulletin (DSR) DCE Memo Program Mgmt. Bulletin Design Standards e-Booklet (Next Release)

————— Contact the Roadway Design Office for assistance in completing this form —————

10/27/2016 10:53:34 AM

ADDED NOTE 1.D - Joints permitted at the location of the Slope Breaks. Otherwise located joints in accordance with index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

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. Steeper slopes are not permitted unless otherwise detailed in the Plans.
- B. Landings must have slopes less than or equal to 0.02 in any direction.
- C. Install ramp slopes along a single linear plane (i.e. no warps or varying slope)

2. Grade Breaks:

Grade breaks at the top and bottom of ramps must be parallel to each other and perpendicular to the direction of the ramp slope.

3. Existing Curb, Curb and Gutter and/or Sidewalk:

CHANGED to: 522-001

- ~~B~~ ~~X~~ Remove any existing curb or curb and gutter to the nearest joint beyond the curb transition or to the extent that no remaining section of curb or curb and gutter is less than 5 feet long. Remove any existing sidewalk to the nearest joint beyond the transition slope or to the extent that no remaining section of sidewalk is less than 5 feet long.

- ~~A~~ ~~X~~ Refer to Index ~~310~~ for Concrete Sidewalk details.

4. Curb Ramp Alpha-Identification:

- A. Sidewalk curb ramp alpha-identifications (e.g. **ADDED: thickness and** purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

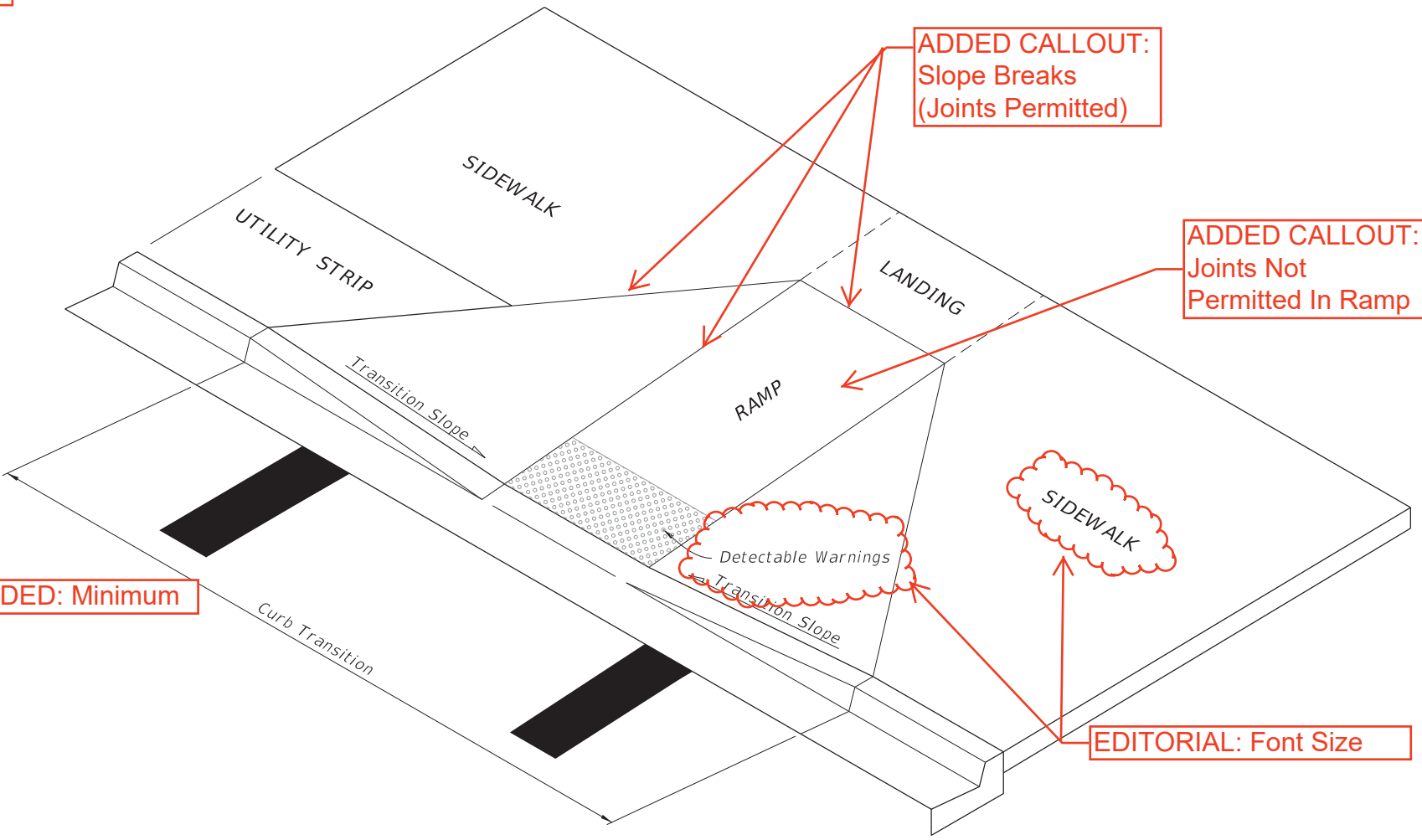
5. Detectable Warnings:

- A. Install detectable warnings in accordance with Specification ~~Section 527~~.
- B. Place detectable warnings across the full width of the ramp or landing, to a 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: Minimum

6. Detectable Warnings - Acceptance Criteria:

- A. Color and texture shall be complete and uniform.
- B. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
- C. There shall be no more than 4 non-compliant domes in any one square foot.
- D. Non-compliant domes shall not be adjacent to other non-compliant domes.
- E. Surfaces shall not deviate more than 0.10" from a true plane.



ADDED CALLOUT: Slope Breaks (Joints Permitted)

ADDED CALLOUT: Joints Not Permitted In Ramp

SIDEWALK

EDITORIAL: Font Size

CURB RAMP NOMENCLATURE

11/01/17

Changed all: 522-002

DS 03/08/17

LAST REVISION 11/01/16	REVISION	DESCRIPTION:	 FY 2017-18 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 1 of 8
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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. Steeper slopes are not permitted unless otherwise detailed in the Plans.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Install ramp slopes along a single linear plane (i.e. no warps or varying slope)
- 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. Grade Breaks:

Grade breaks at the top and bottom of ramps must be parallel to each other and perpendicular to the direction of the ramp slope.

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

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

4. Curb Ramp Alpha-Identification:

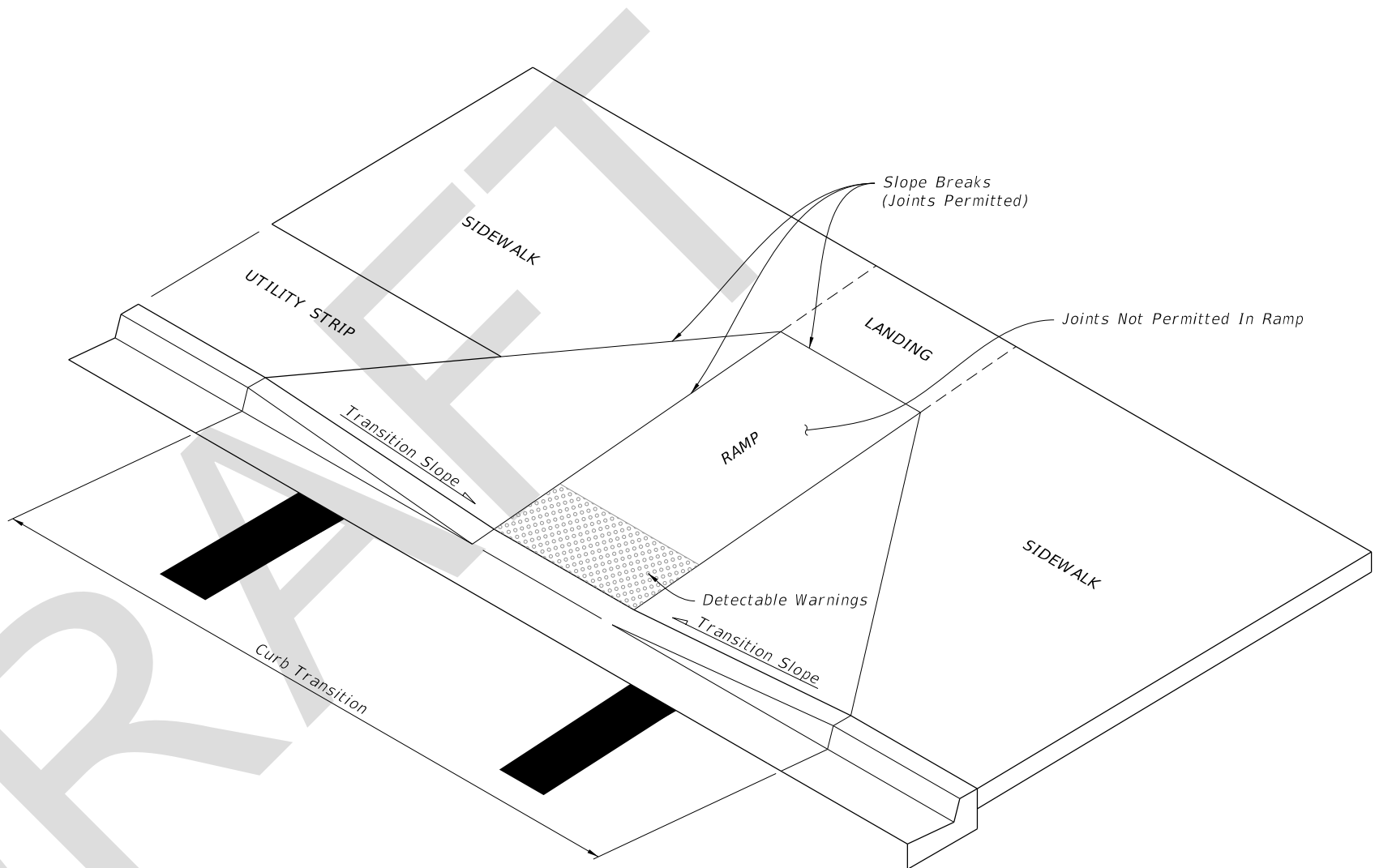
- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

5. 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.


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- E. Surfaces shall not deviate more than 0.10" from a true plane.



==== CURB RAMP NOMENCLATURE ====

8/22/2017 9:24:47 AM

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2018-19 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 8
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