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.

5. Detectable Warnings - Acceptance Criteria:
   A. Color and texture shall be complete and uniform.
   B. 96% 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.

CURB RAMP NOMENCLATURE
CONSTRUCTION OF SIDEWALK CURB IN CUT SECTIONS

NOTE: For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details.

SECTION B-B

SIDEWALK CURB OPTIONS

SIDEWALK CURB RAMPS CR-C AND SIDEWALK CURB

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

OPTION A

OPTION B

OPTION A

OPTION B
**NOTE:**
- 1. Crosswalk Width and Configuration Vary; Must Conform to Index 711-001.
- 2. 15' Radius Curve Shown for CR-L.
- 3. For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details, on Sheet 3.

**SIDEWALK CURB RAMPS CR-H, CR-K & CR-L**

**PLAN VIEW**

**SECTION D-D**
- Sidewalk Curb
- 4'-0" Min.
- 0.02 0.02 1:12
- Ramp
- Utility Strip
- 2'-0" (Shown) Sidewalk
- 4'-0" Min.
- 0.02
- 2'-0" (Shown) Sidewalk
- 4'-0" Min.
- 0.02
- Gutter Line
- Sidewalk
- 4'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 4'-0" Min.
- 6"-0" (Type F Curb Shown) 8" For Type E Curb 9" For Type F Curb (Type F Curb Shown)

**SECTION E-E**
- Sidewalk Curb
- 2'-0" Min.
- Detectable Warnings

**ISOMETRIC VIEW**

**OPTION A**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02

**OPTION B**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02

**OPTION C**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02

**ISOMETRIC VIEW**

**OPTION A**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02

**OPTION B**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02

**OPTION C**
- Sidewalk
- 2'-0" Min.
- 0.02
- 2'-0" Min.
- 0.02
- Ramp
- Sidewalk
- 2'-0" Min.
- 0.02
- Sidewalk
- 2'-0" Min.
- 0.02
LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS

(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)

DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS

NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION C-C

PAVEMENT RELIEF DETAILS

CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

NOTE: 11/01/18

REVISION

DESCRIPTION:

FASTER DESIGN

INDEX

522-002

SHEET

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NOTES:
1. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
2. Crosswalk widths and configurations vary; must conform to Index 711-001.
3. Flangeway Gap may be up to 3" for Freight-only Railways.

Rail Car Width

Flangeway Gap (2½' Max.) (See Note 3)

Flangeway Gap

Crosswalk

2'-0" Detectable Warnings

4'-0" Min. Full Height Curb

Back Of Sidewalk Alignment Variations

2'-0" Detectable Warnings

Crosswalk

4'-0" Min. Full Height Curb

2'-0" Detectable Warnings

Crosswalk

4'-0" Min. Full Height Curb

2'-0" Detectable Warnings

Crosswalk

3'-0" Curb Transition From Full to Zero Height

Full Height Curb, 2'-0" Min.
2'-0" Detectable Warnings

Crosswalk

utility Strip

2'-0" Detectable Warnings

Crosswalk

2'-0" Detectable Warnings

Crosswalk

R A I L R O A D  C R O S S I N G


DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS