



Date: March 24, 2020

To: Department of Public Works – Engineering Bureau, Project Management Bureau, Transportation and Mobility Bureau; Water Department; Department of Energy Resources; Long Beach Airport

From: ^{AP} Alvin Papa, City Engineer

Subject: Design Standards for Pedestrian Facilities in the Public Right-of-Way

This memo establishes engineering design standards for pedestrian facilities in the public right-of-way and clarifies design details required for the construction of curb ramps.

Background

The Americans with Disabilities Act (ADA) of 1990 and the California Government Code Sections 4450 et seq. state that facilities shall be made accessible to persons with disabilities. To comply with the ADA, the 2010 ADA Standards for Accessible Design (2010 ADA Standards) shall be used in conjunction with the City of Long Beach, Department of Public Works, Engineering Bureau, Design Information Bulletin 01-18 Issue 2 (DIB), dated August 14, 2018. The DIB was published to provide general design guidance to comply with the Federal and State requirements on pedestrian accessibility for public use. The DIB shall be incorporated into the Department of Public Work design guidelines, and universally referenced in engineering designs for all projects in the public right-of-way.

Curb ramp designs are guided by the City of Long Beach, Department of Public Work Standard Plan No. 122 – Curb Ramp (Std. Plan No. 122), with the latest revision dated October 25, 2018. The latest edition of Std. Plan No. 122 is available for download at: <http://www.longbeach.gov/globalassets/pw/media-library/documents/resources/engineering/standard-plans/100-general-roadwork/section-122---curb-ramps--as-of-10-25-18->

The Standard Plan provides a template for curb ramp construction throughout the City, however, the Standard Plan often requires substantial modification to fit existing field conditions and comply with accessibility requirements. Relying on Contractors to apply these Standard Plans in the field without detailed curb ramp designs have resulted in the inadvertent construction of non-compliant curb ramps.

Design Standards for Pedestrian Facilities in the Public Right-of-Way

To provide design clarity and ensure accessibility compliance, all proposed curb ramps shall be accompanied with a detailed engineering design for each curb ramp. Furthermore, each curb ramp design shall be provided with sufficient design tolerances

to provide contractors the flexibility needed to address challenging field conditions and successfully build compliant curb ramps.

All pedestrian facilities improvements within the public right-of-way shall follow the design guidelines set forth in the DIB. The document is written to provide general guidance and deviation from the DIB may be required due to site restrictions. Any deviation from the guidelines outlined in the DIB shall be approved by the City Engineer or designee. The latest edition can be found in the City Manager's website following this link: "www.longbeach.gov/globalassets/city-manager/media-library/documents/ada/design-information-bulletin-updated--01-18".

Curb Ramp Design

Using the Std. Plan No. 122 as a guideline, each curb ramp shall be accompanied by a detailed engineering plan that calls out elevations, slopes, and grade changes where changes in slope or grade occur (see Exhibit 1 attached).

To provide adequate tolerances for field conditions, maximum design slopes on curb ramps and sidewalks shall be in accordance to maximum design slope requirements set forth in the State of California, Department of Transportation, 2018 Standard Plan A88A – Curb Ramp Details (Caltrans Std. Plan A88A) (see Exhibit 2 attached).

Please contact Lincoln Lo, Assistant City Engineer, at (562) 570-6695 if you have any questions.

Attachments: Exhibit 1. Sample Detailed Curb Ramp Design
 Exhibit 2. Caltrans Std. Plan A88A

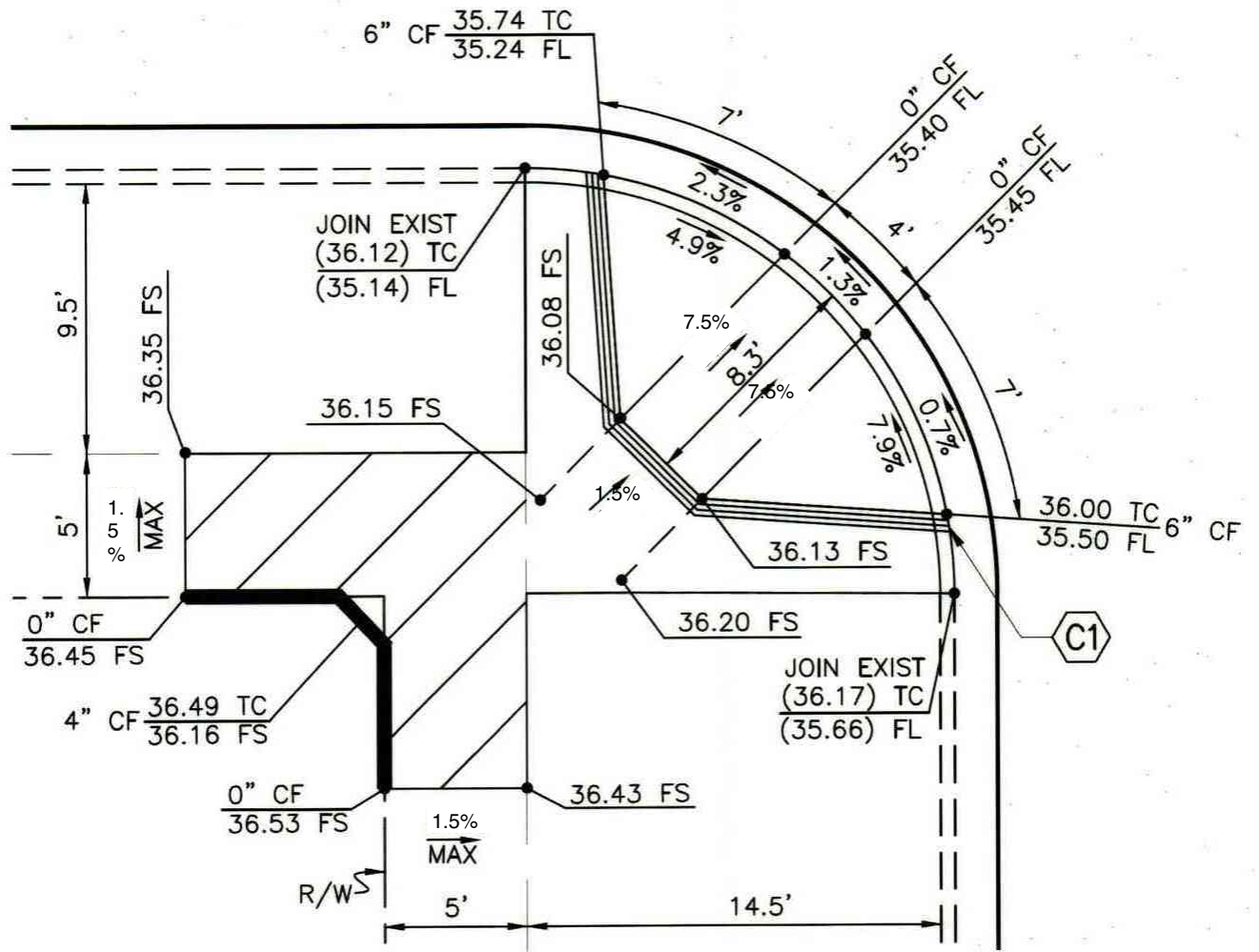
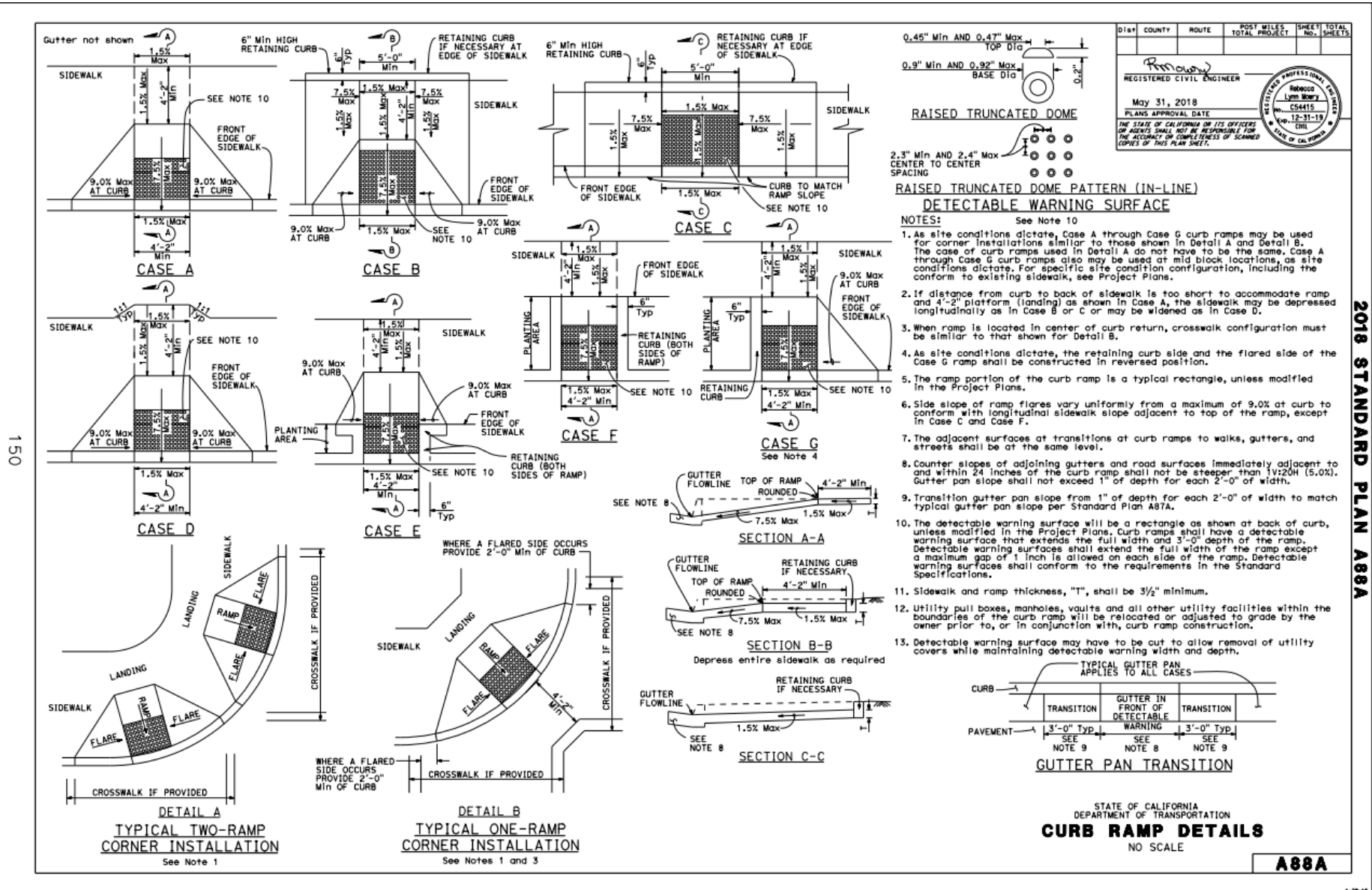


Exhibit 1. Sample Detailed Curb Ramp Design



2018 STANDARD PLAN A88A

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Exhibit 2. State of California Department of Transportation 2018 Standard Plan A88A, "Curb Ramp Details"