ACEC Meeting
ADA Updates

Presented by

Anthony Ng

ADA Project Delivery Office

CLASS ACTION LAWSUITS

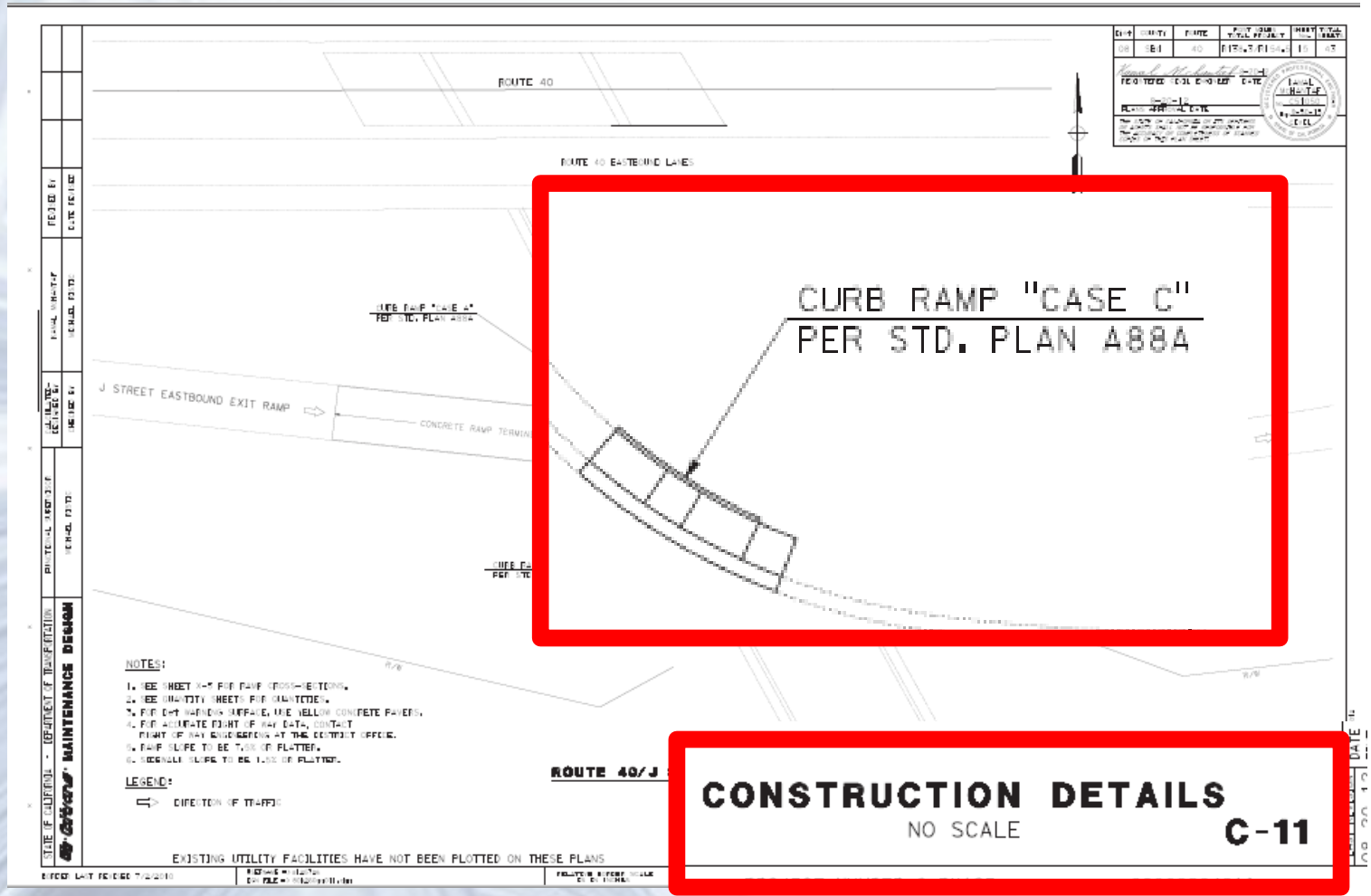
Settlement Cases

Caltrans – $1.1 Billion

City of LA – $1.4 Billion

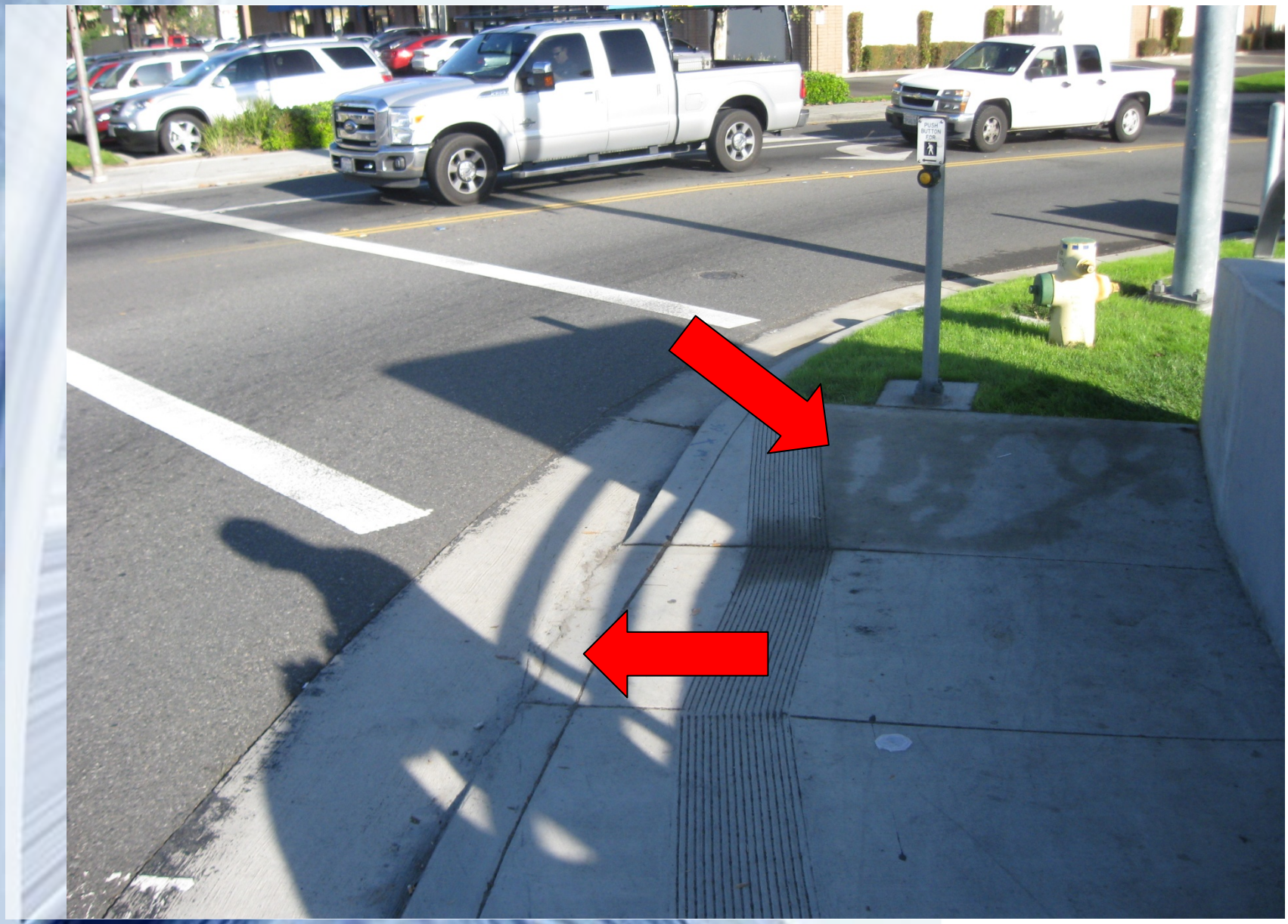
New York City - $1.55 Billion

Old Curb Ramp Design



Sample Pictures

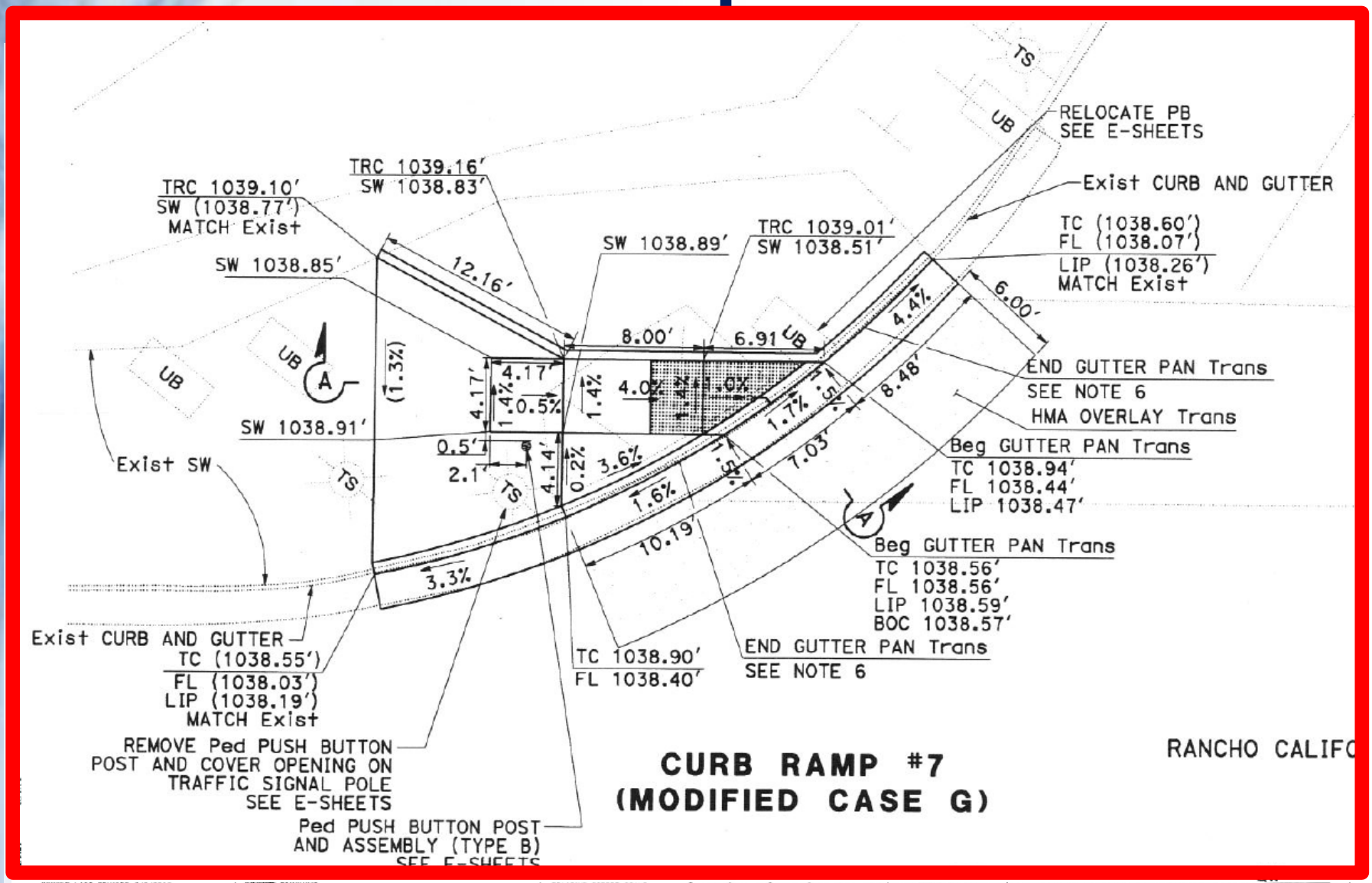
Sample Pictures

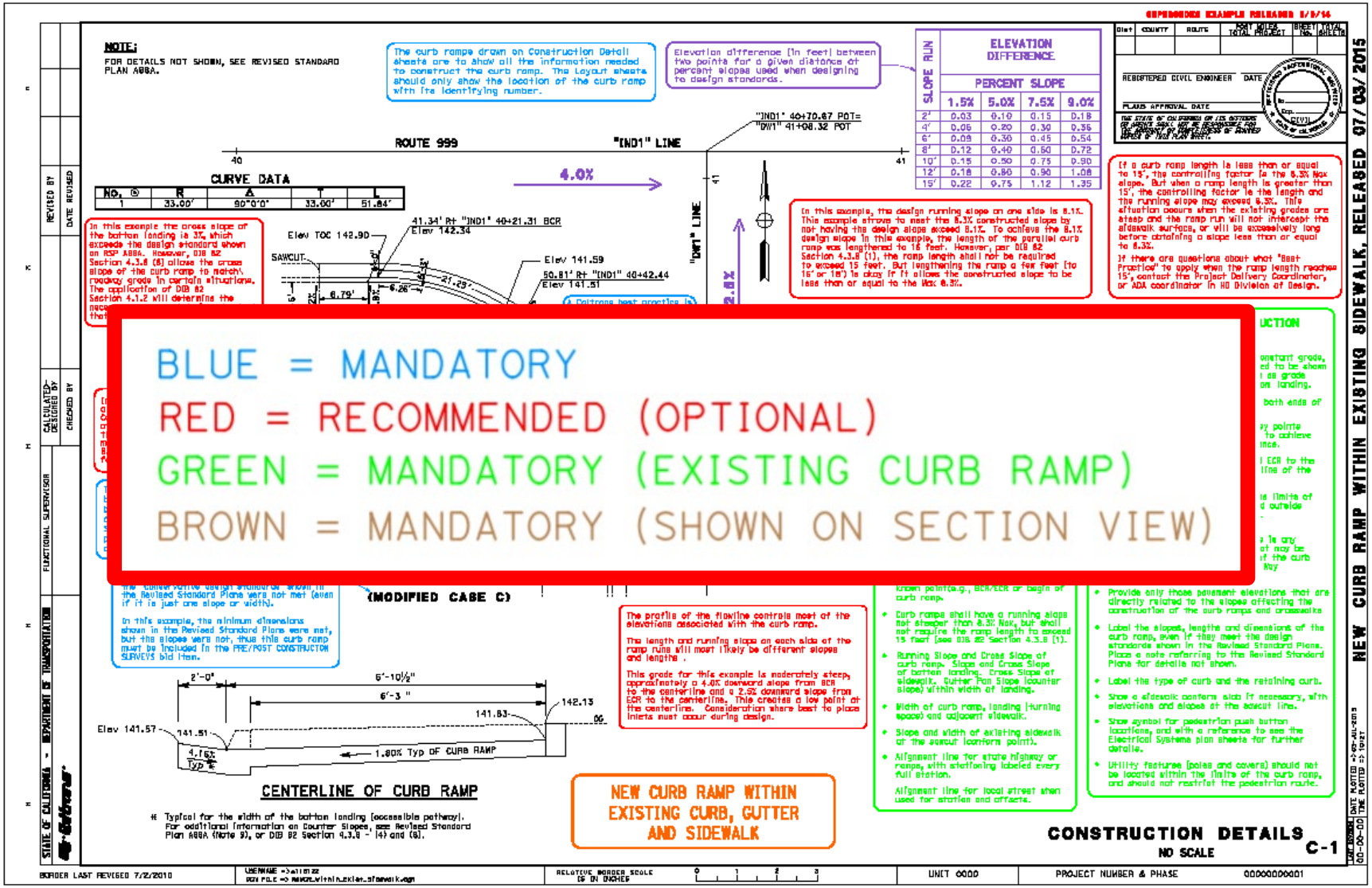


Sample Pictures

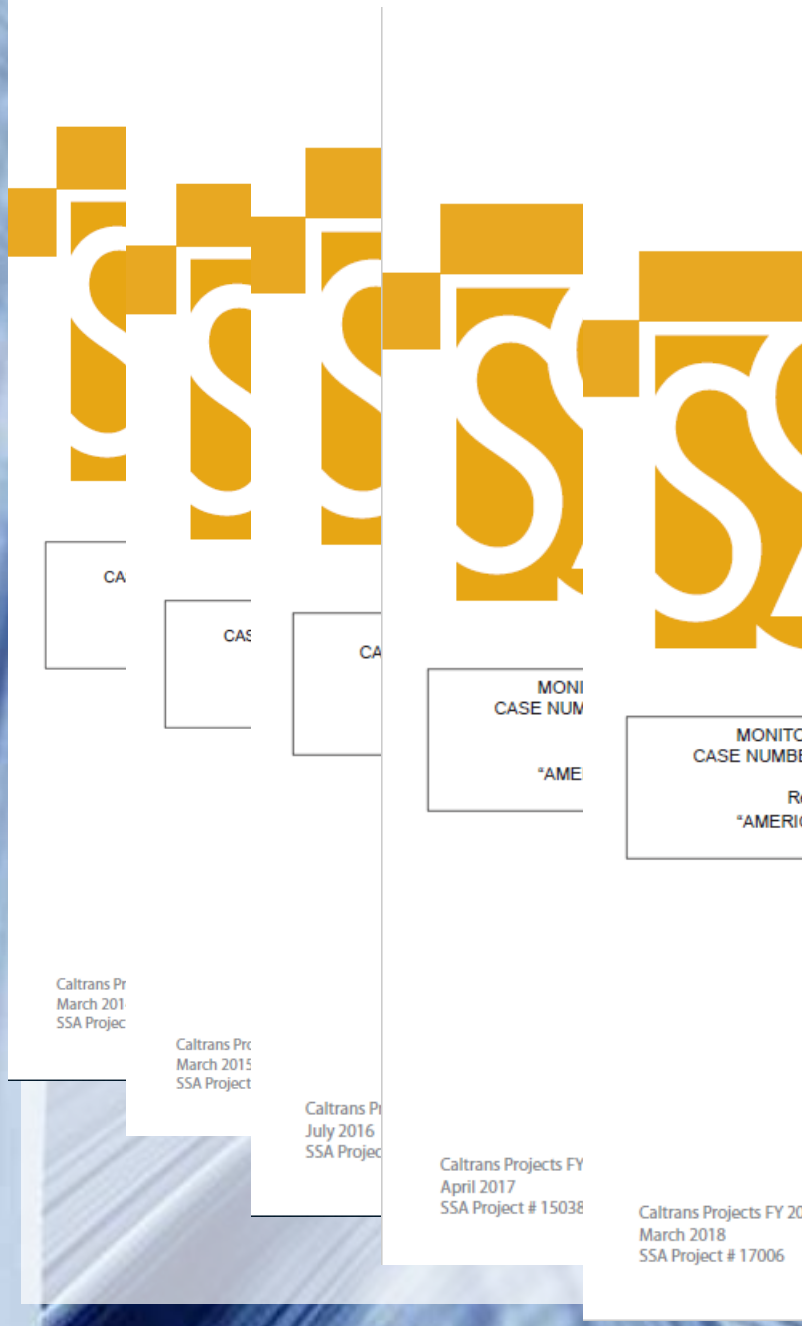
Sample Pictures

Plan Example - Good




BLUE = MANDATORY
RED = RECOMMENDED (OPTIONAL)
GREEN = MANDATORY (EXISTING CURB RAMP)
BROWN = MANDATORY (SHOWN ON SECTION VIEW)
NOTE:
FOR DETAILS NOT SHOWN, SEE REVISED STANDARD PLAN A88A.
ROUTE 999
"IND1" LINE
CURVE DATA
4.0%
2.0%
SLOPE RUN
ELEVATION DIFFERENCE
PERCENT SLOPE
1.5% 5.0% 7.5% 9.0%
(MODIFIED CASE C)
CENTERLINE OF CURB RAMP
NEW CURB RAMP WITHIN EXISTING CURB, GUTTER AND SIDEWALK
CONSTRUCTION DETAILS
NO SCALE
C-1
NEW CURB RAMP WITHIN EXISTING SIDEWALK, RELEASED 07/03/2015

Audit Assessment



PARSONS

Accessibility Audits for Construction Contract Accepted Projects

FY 2017-2018

Monitoring Report for Compliance with the Settlement Agreement
Case Number C-06-5125 in the United States District Court for the Northern District of California

Date Submitted
May 2019

Submitted To
Disability Rights Advocates,
California Council of the Blind,
Caltrans

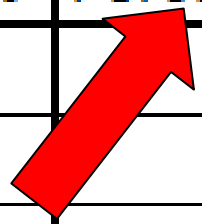
Submitted By
Parsons Corporation

2495 Natomas Park Dr., Suite 510,
Sacramento, CA, 95833
P: (916) 576-2770
W: www.parsons.com

envision more SM

Audit Reports

Reporting Year	Total Curb Ramps	Compliant	Percent Passing
2012-2013	275	108	39.27%
2013-2014	235	121	51.49%
2014-2015	307	133	43.32%
2015-2016	483	131	27.12%
2016-2017	372	155	41.67%
2017-2018	256	136	53.13%



Average = 42.67%

Occurrences	Percentage
1 Noncompliant Feature	45.06%
2 Noncompliant Feature	27.02%
3 Noncompliant Feature	13.81%
4 Noncompliant Feature	7.25%
5 or More Noncompliant Feature	6.49%

Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERIC

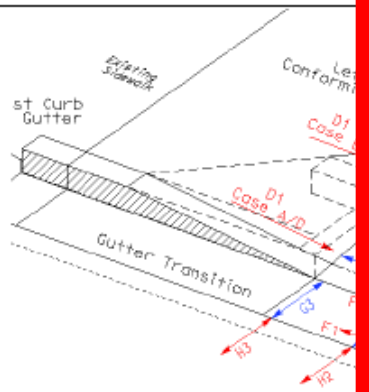
COMPLIANCE INSPECTION REPORT

CEM-5773ADE (REV 09/2017)

CONTRACTOR NAME AND ADDRESS

Location Number	Route Name
	Cross Street

ADA CURB RAM



Measure

Ramp Slope (x.x%)		Ramp Cross Slope (x.x%)		Ramp Width (inches)		S
A1		B1		C1		D
A2		B2		C2		
A3		B3		C3		
7.7% or less? ☐ Yes ☐ No		1.7% or less? ☐ Yes ☐ No		49.75" or greater? ☐ Yes ☐ No		9.2 ☐

Remarks

Inspection by (print name) | Signatur

ADA Notice For individuals with sensory disabilities, this
Management Unit at (916) 445-1233, TTY 71

face
ope
2"
mp
)

s?
] No

" or

irms
314.

Gutter Slope (x.x%)

F1	
F2	

1.7% or less?

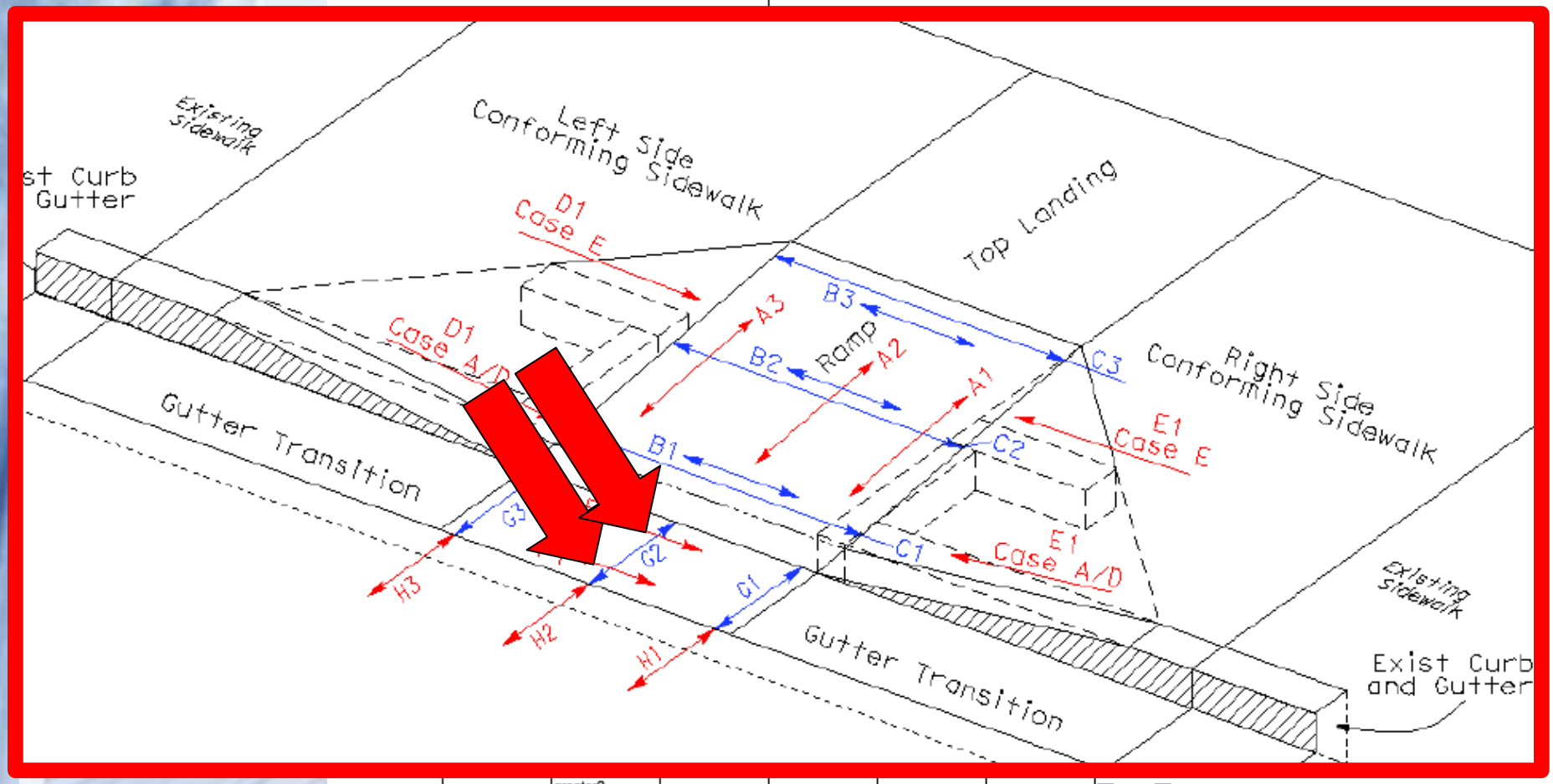
☐ Yes ☐ No

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE INSPECTION REPORT

CEM-5773ADE (REV 09/2017)

CONTRACTOR NAME AND ADDRESS	CONTRACT NUMBER/CO/RTE/PM



☐ Yes ☐ No	☐ Yes ☐ No	greater? ☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A Gutter is 24" or more wide.

Remarks

Inspection by (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

DESIGN INFORMATION BULLETIN NUMBER 82-06

Department of Transportation
Division of Design
Office of Standards and Procedures

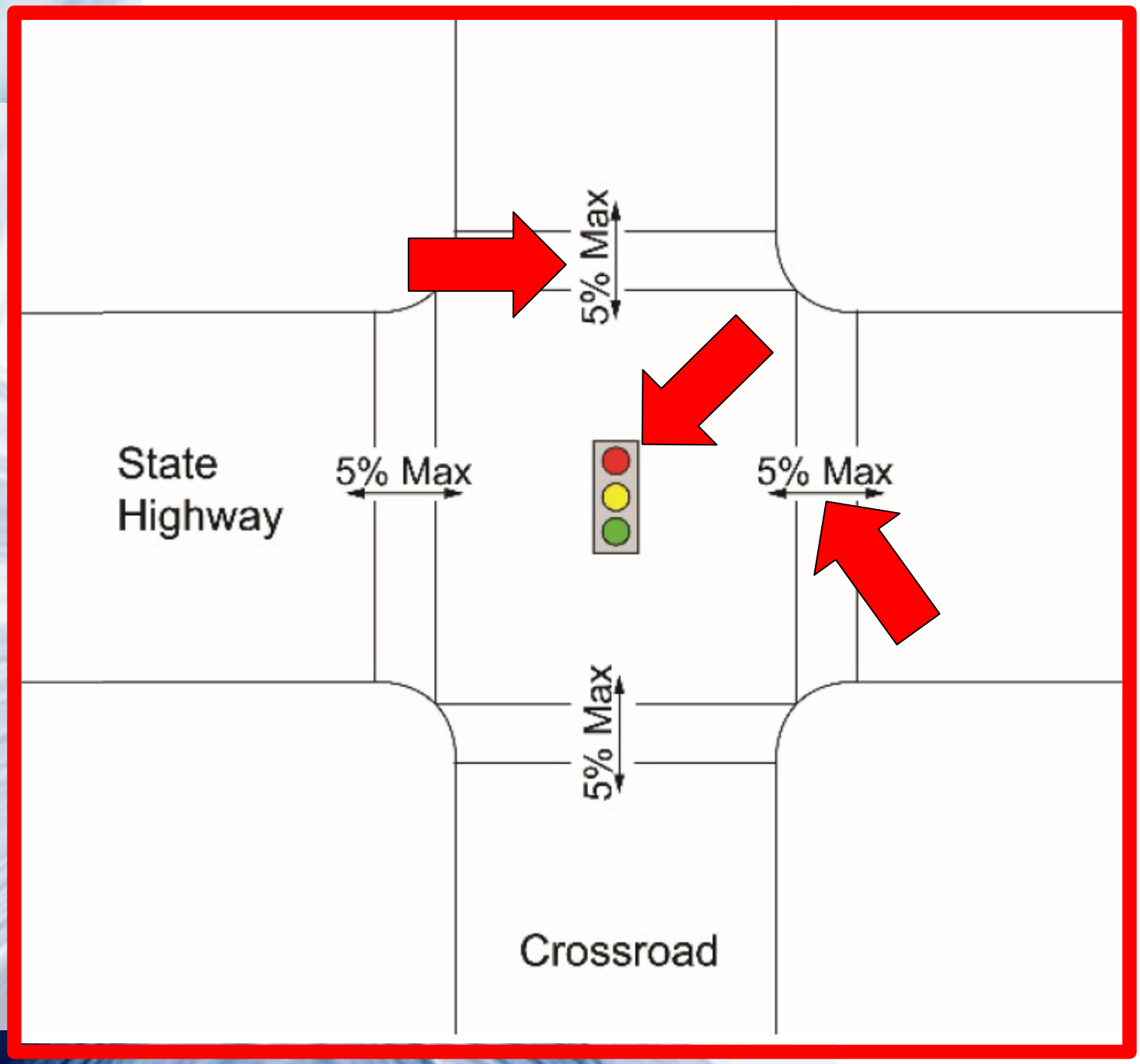
PEDESTRIAN ACCESSIBILITY GUIDELINES FOR HIGHWAY PROJECTS

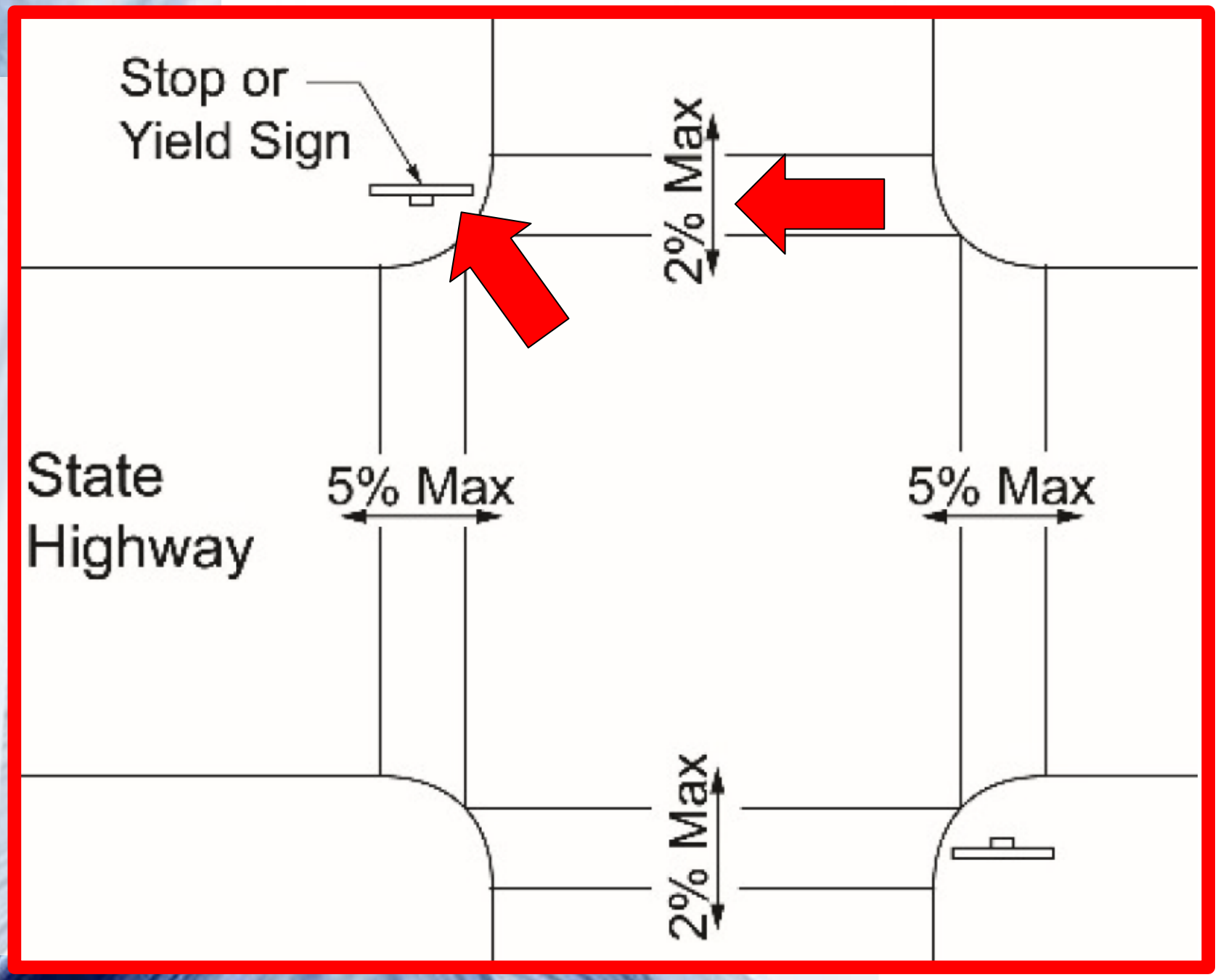
(2) Where pedestrian access routes are contained with
yield or stop control, destrian 5.0% maximum.

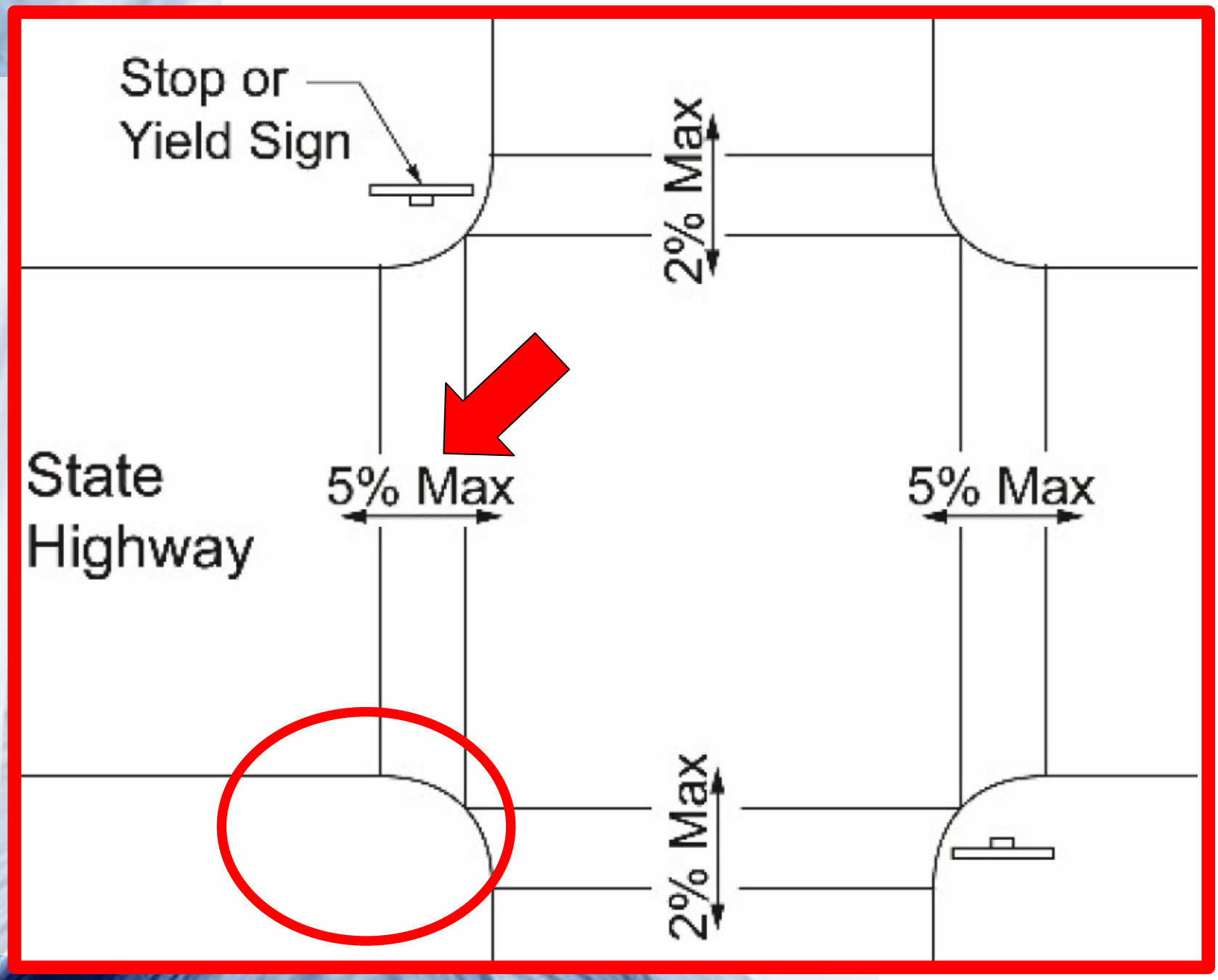
APPROVED BY:

THOMAS S. BOUQUIN
ACTING DIVISION CHIEF
DIVISION OF DESIGN

November 16, 2017


5% Max
State
Highway
5% Max
5% Max
5% Max
Crossroad


Stop or
Yield Sign
2% Max
State
Highway
5% Max
5% Max
2% Max


Stop or
Yield Sign
2% Max
State
Highway
5% Max
5% Max
2% Max

DESIGN INFORMATION BULLETIN NUMBER 82-06

Department of Transportation
Division of Design
Office of Standards and Procedures

PEDESTRIAN ACCESSIBILITY GUIDELINES
FOR

(8) The cross slope of curb ramps, blended transitions, and turning spaces (landings) shall be 2.0% maximum. At pedestrian street crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope shall be permitted to equal the street or highway grade.

APPROVED BY:

THOMAS S. BOUQUIN
ACTING DIVISION CHIEF
DIVISION OF DESIGN

November 16, 2017

DESIGN INFORMATION BULLETIN NUMBER 82-06

Department of Transportation
Division of Design
Office of Standards and Procedures

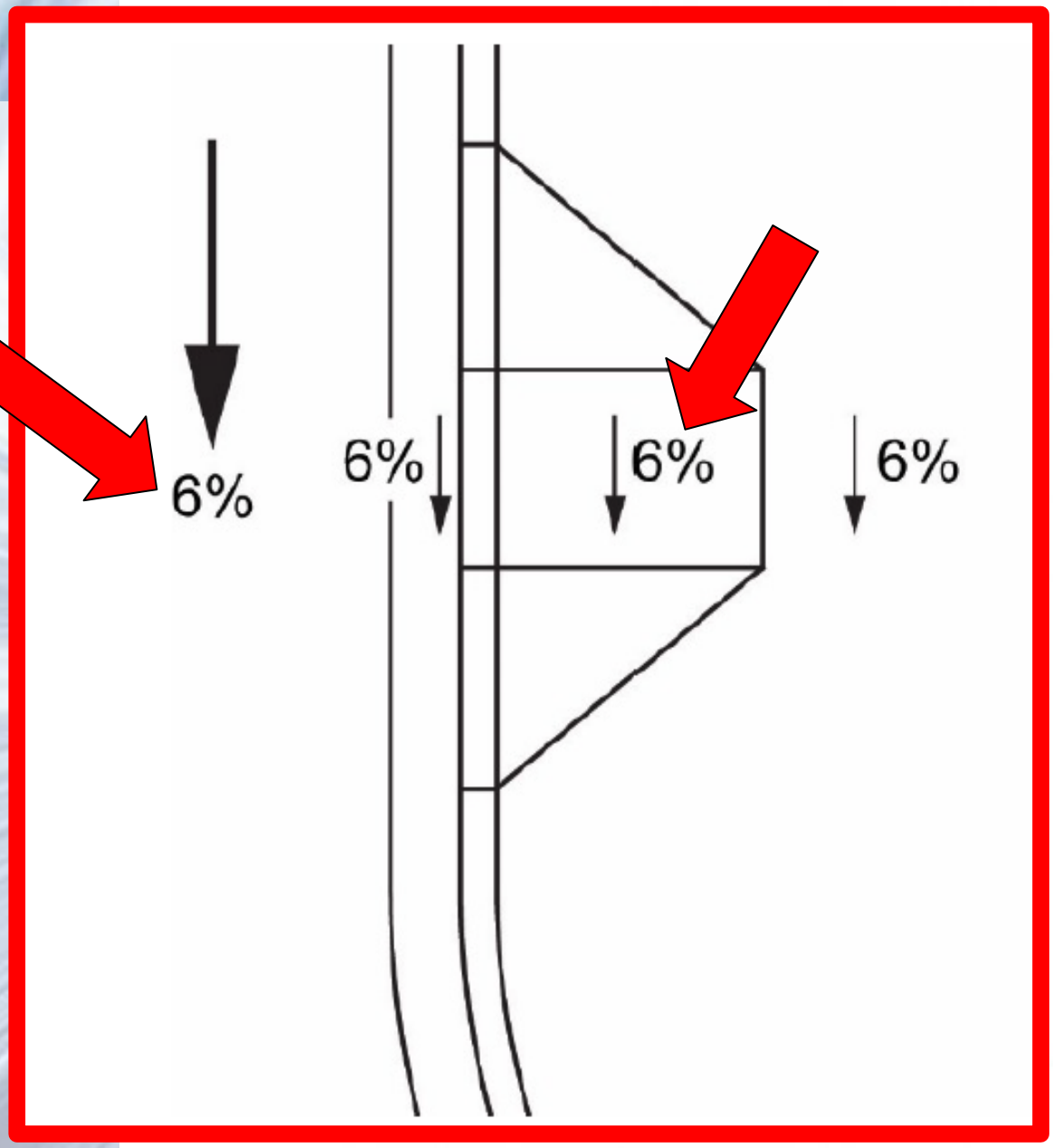
PEDESTRIAN ACCESSIBILITY GUIDELINES
FOR

(8) The cross slope of curb ramps, blended transitions, and turning spaces (landings) shall be 2.0% maximum. At pedestrian street crossings without yield or stop control and at midblock pedestrian street crossings, the cross slope shall be permitted to equal the street or highway grade.

APPROVED BY:

THOMAS S. BOUQUIN
ACTING DIVISION CHIEF
DIVISION OF DESIGN

November 16, 2017



Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS
COMPLIANCE INSPECTION REPORT

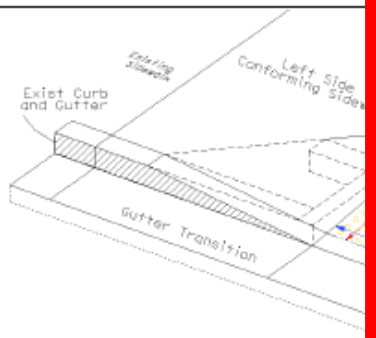
CEM-5773ADE (REV 09/2017)

CONTRACTOR NAME AND ADDRESS

Location Number	Route Name
	Cross Street

p 1
p 2

ADA CURB RAMP (CA



Measure and v

Top Landing Cross Slope (x.x%)		Top Landing Slope (x.x%)		Top Landing Width (inches)		Top La Dep (inch	
I1		J1		K1		L1	
I2		J2		K2		L2	
I3		J3		K3		L3	
1.7% or less? ☐ Yes ☐ No		1.7% or less? ☐ Yes ☐ No		49.75" or greater? ☐ Yes ☐ No		49.75" or greater? ☐ Yes	

ble
ng
epth
s)

6"?

☐ No

Remarks

Inspection by (print name) | Signature

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

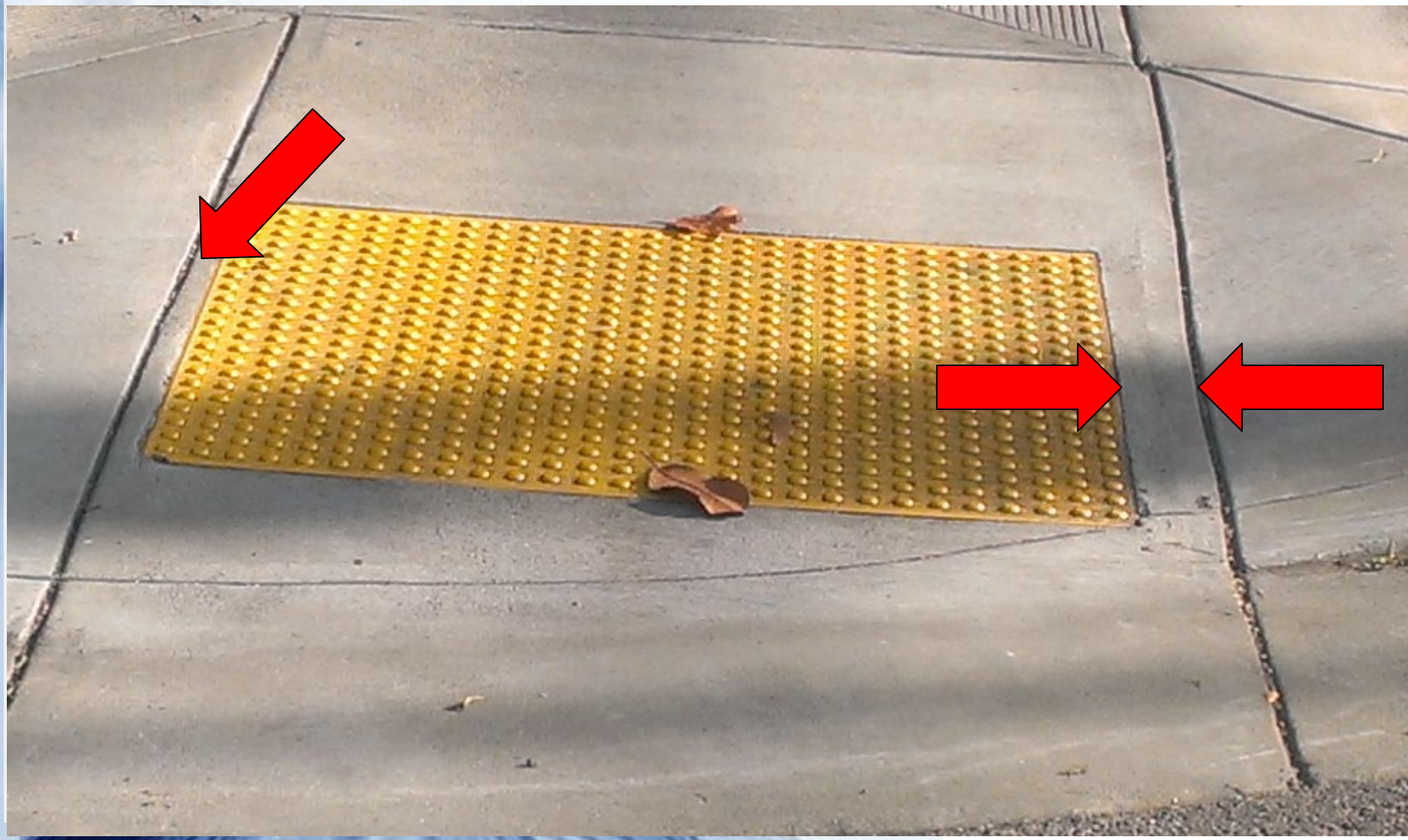
Detectable Warning Surface Width (inches)

M1	
M2	

Extends full width and less than 1" gap on either side?

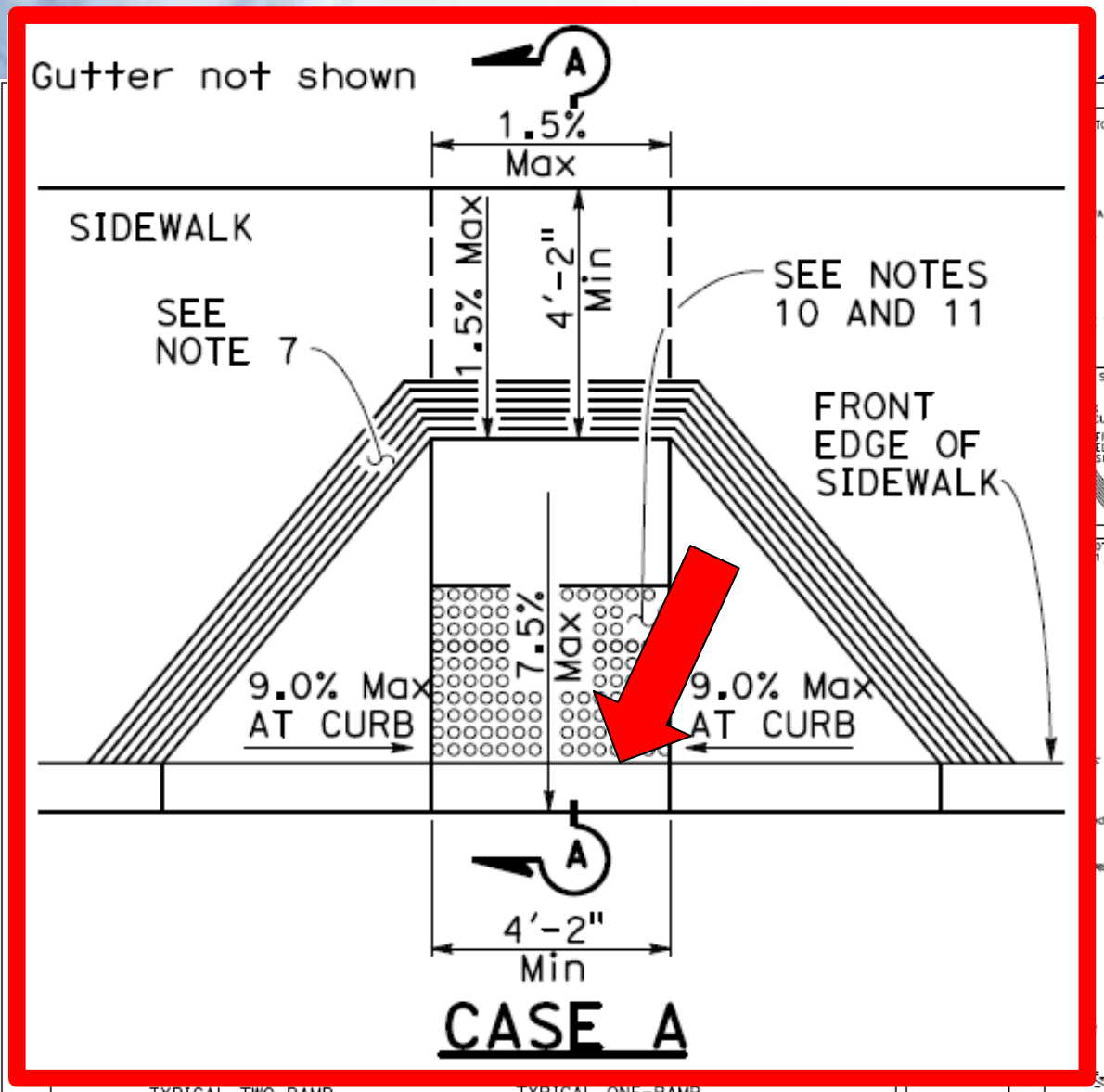
☐ Yes ☐ No

CEM Forms



Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length



TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1

TYPICAL ONE-RAMP CORNER INSTALLATION
See Notes 1 and 3

GROOVING DETAIL

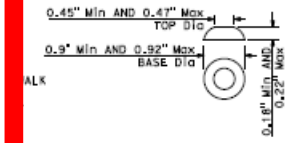
TO ACCOMPANY PLANS DATED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

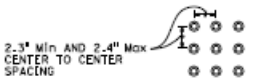
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



RAISED TRUNCATED DOME

NOTES:

1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with ¼" grooves approximately ¾" on center. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
9. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20. Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall conform to the details on this plan and the requirements in the Standard Specifications.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
12. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.



RAISED TRUNCATED DOME PATTERN (IN-LINE)
DETECTABLE WARNING SURFACE
See Note 10

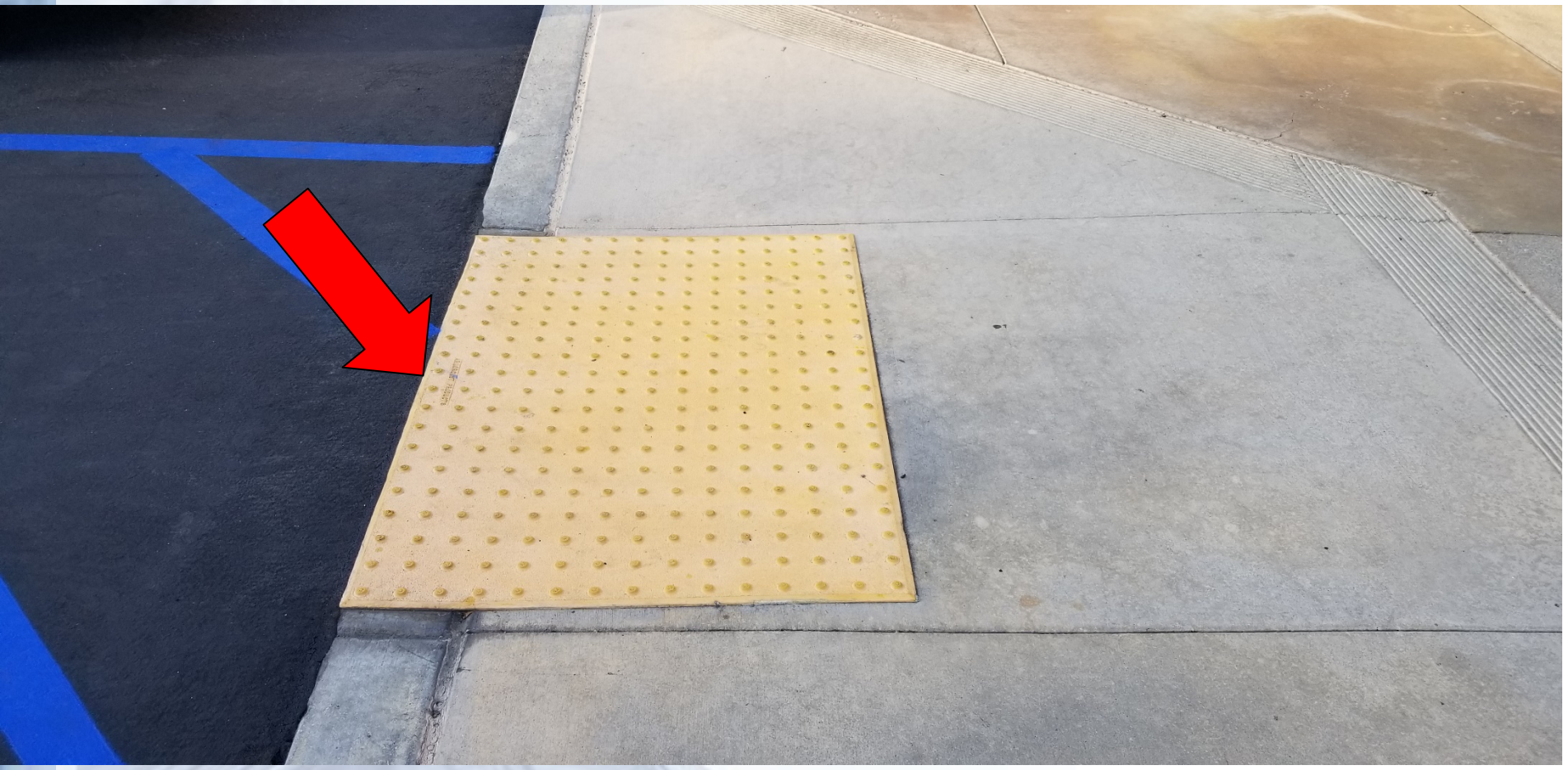
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE

RSP A88A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

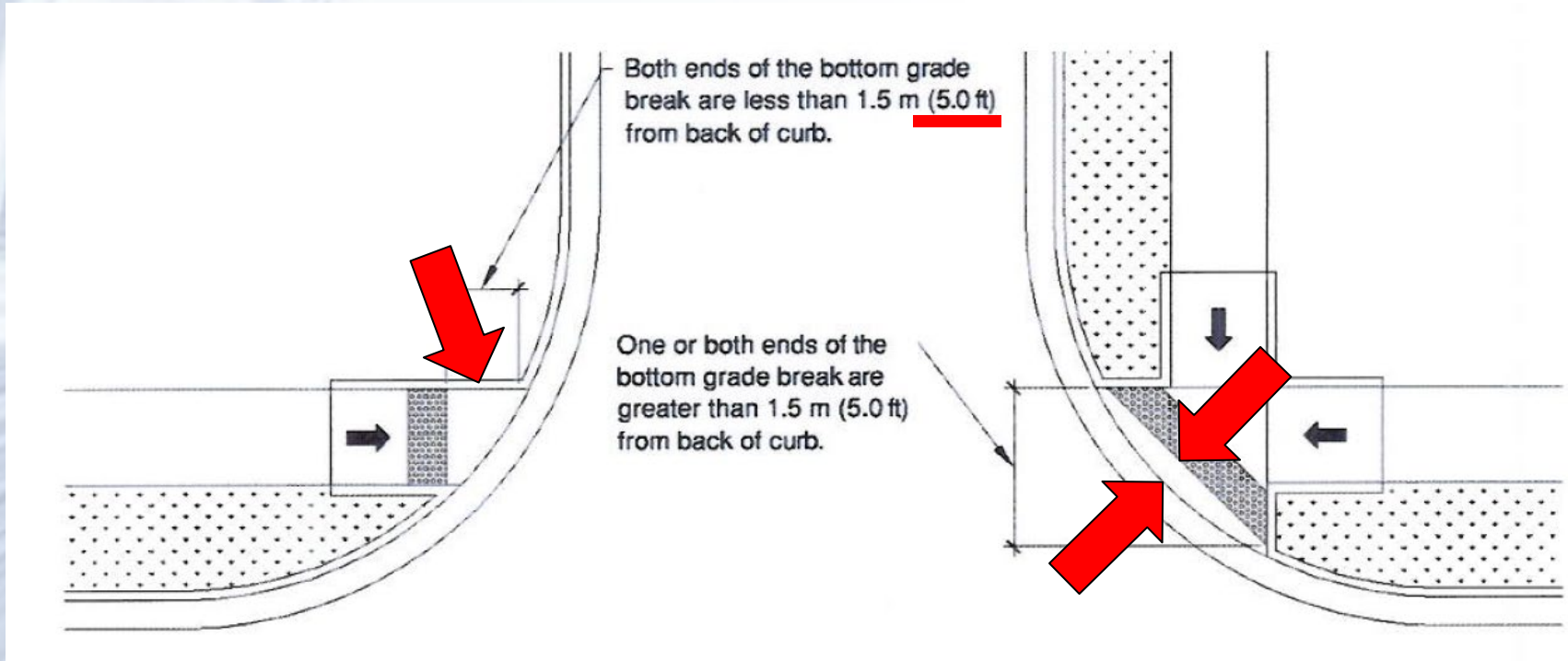
2010 REVISED STANDARD PLAN RSP A88A

Detectable Warning Surface

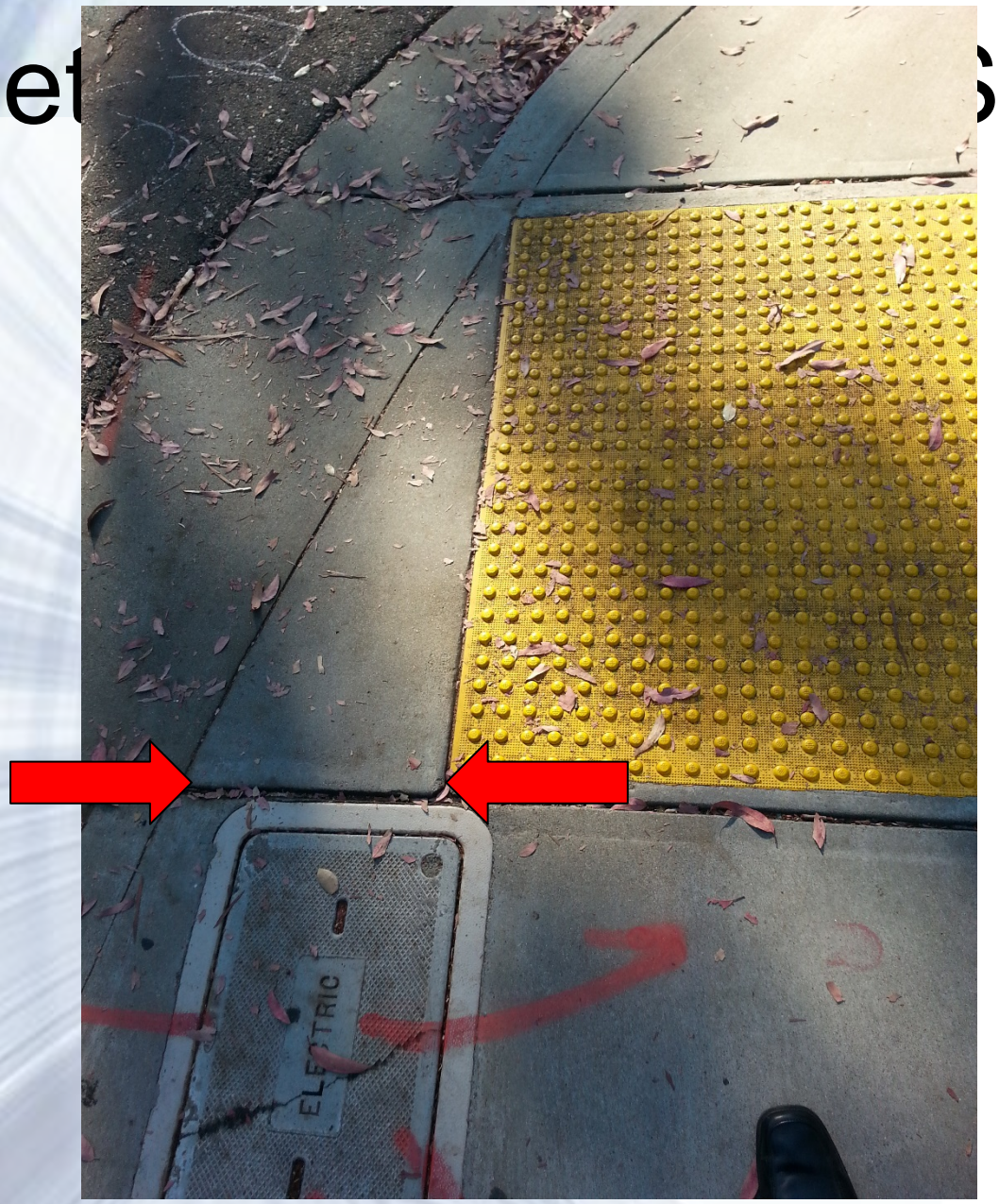


Detectable Warning Surface

Detectable Warning Surface
DIB 82-06
Section 4.3.14



Det Surface



Top 5 Noncompliant Features

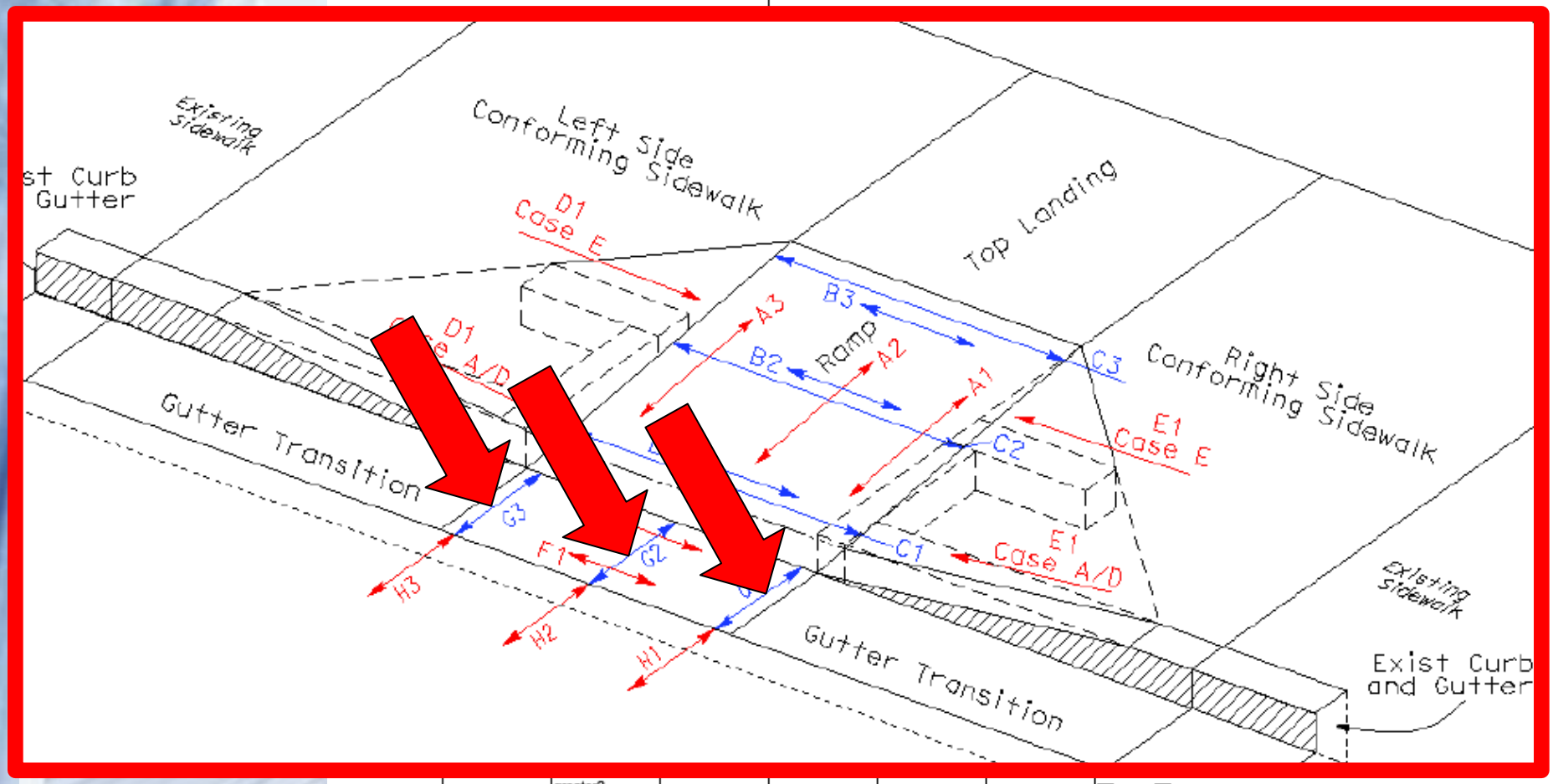
- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE INSPECTION REPORT

CEM-5773ADE (REV 09/2017)

CONTRACTOR NAME AND ADDRESS	CONTRACT NUMBER/CO/RTE/PM



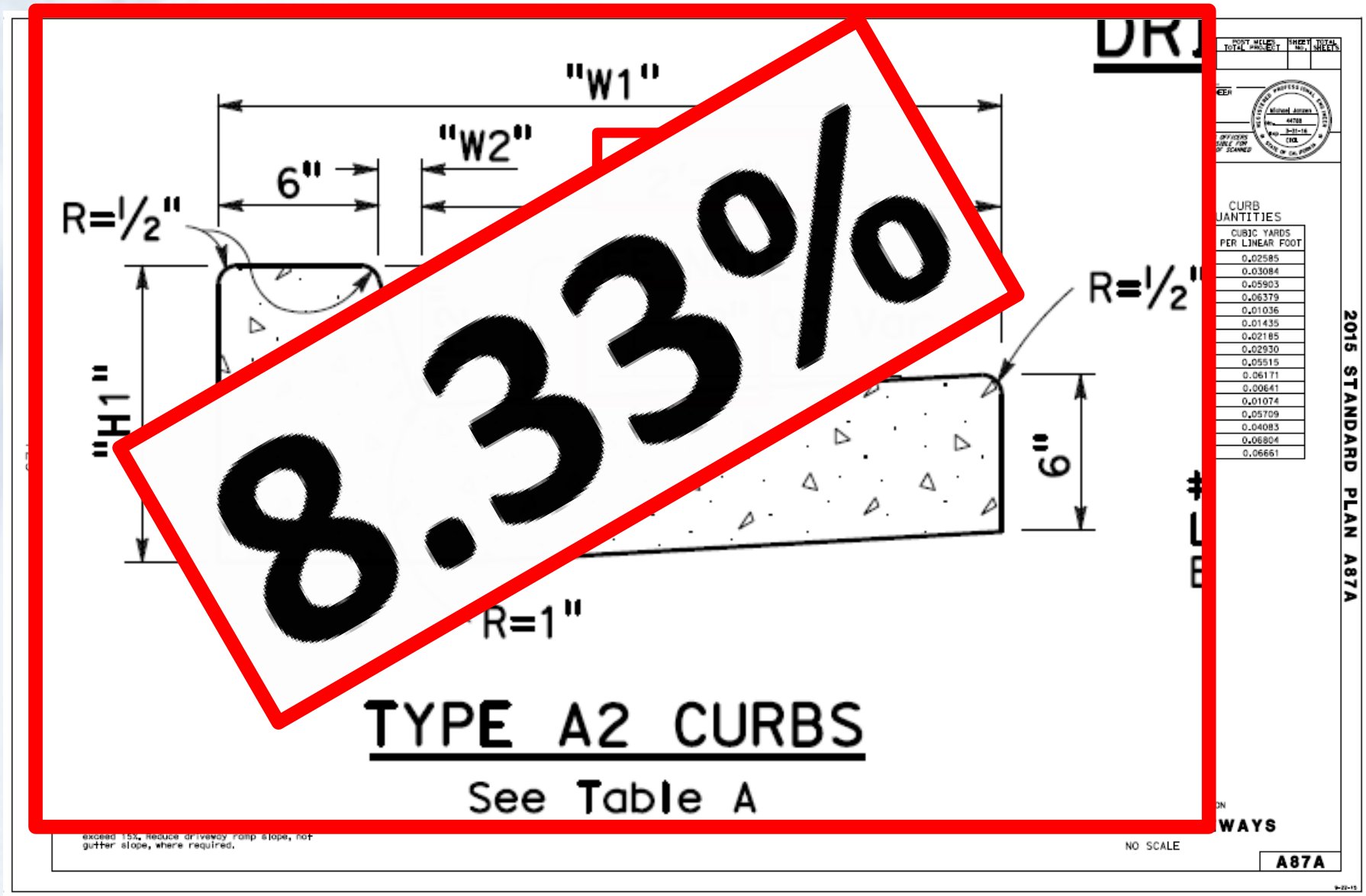
☐ Yes ☐ No	☐ Yes ☐ No	greater? ☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A Gutter is 24" or more wide.

Remarks

Inspection by (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Gutter Pan Transition



Gutter Pan Transition

DIB 82-06

Section 4.3.8 (4)

Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1 V:20 H (5.0%).

Gutter Slope

Gutter Slope

Top 5 Noncompliant Features

- Gutter Slope
- Detectable Warning – Full Width
- Detectable Warning – Setback
- Gutter Cross Slope
- Bottom Landing Length

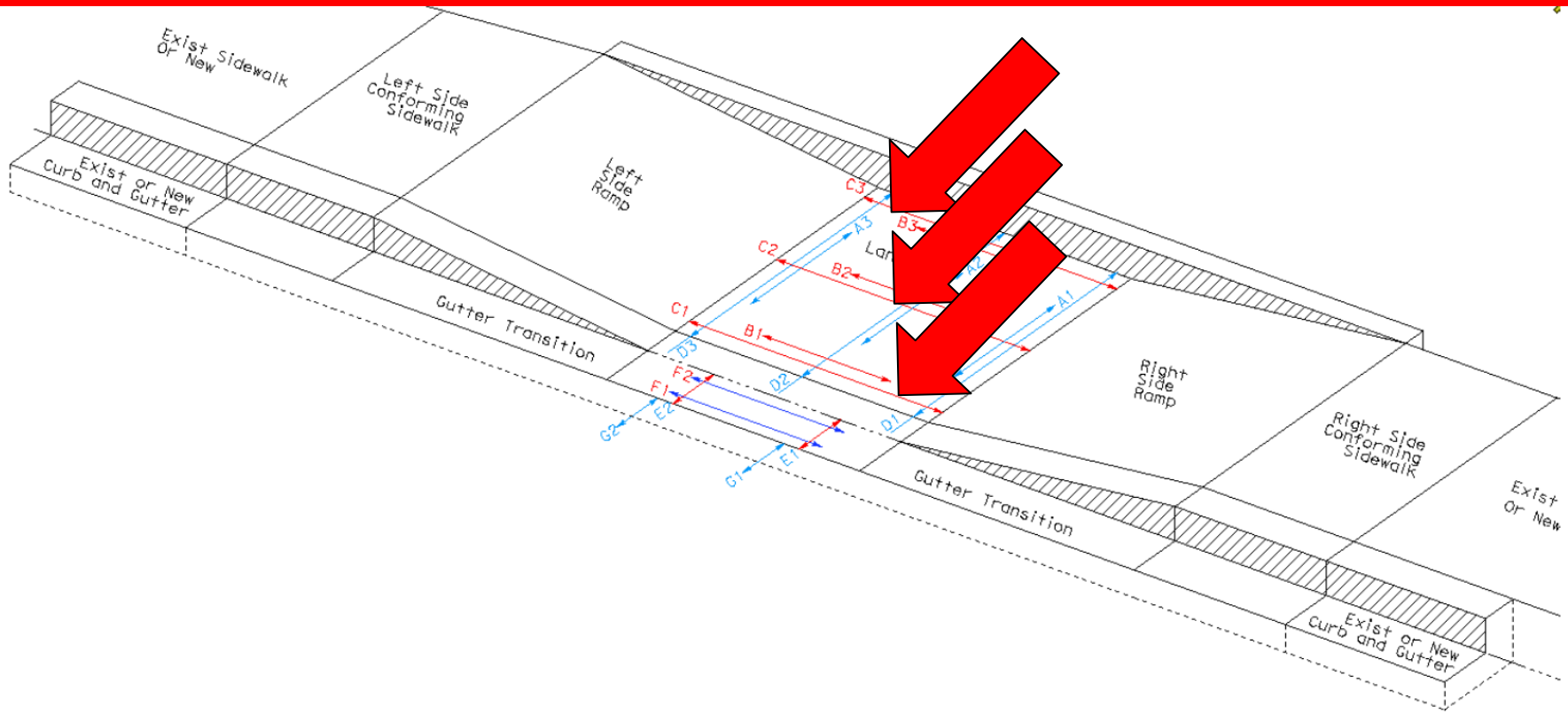
STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE C) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE INSPECTION REPORT

CEM-5773C (REV 09/2017)

CONTRACTOR NAME AND ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFICATION NUMBER
	PROJECT INFORMATION/NAME

Location Number	Route Name	Intersection Quadrant	Passageway Type

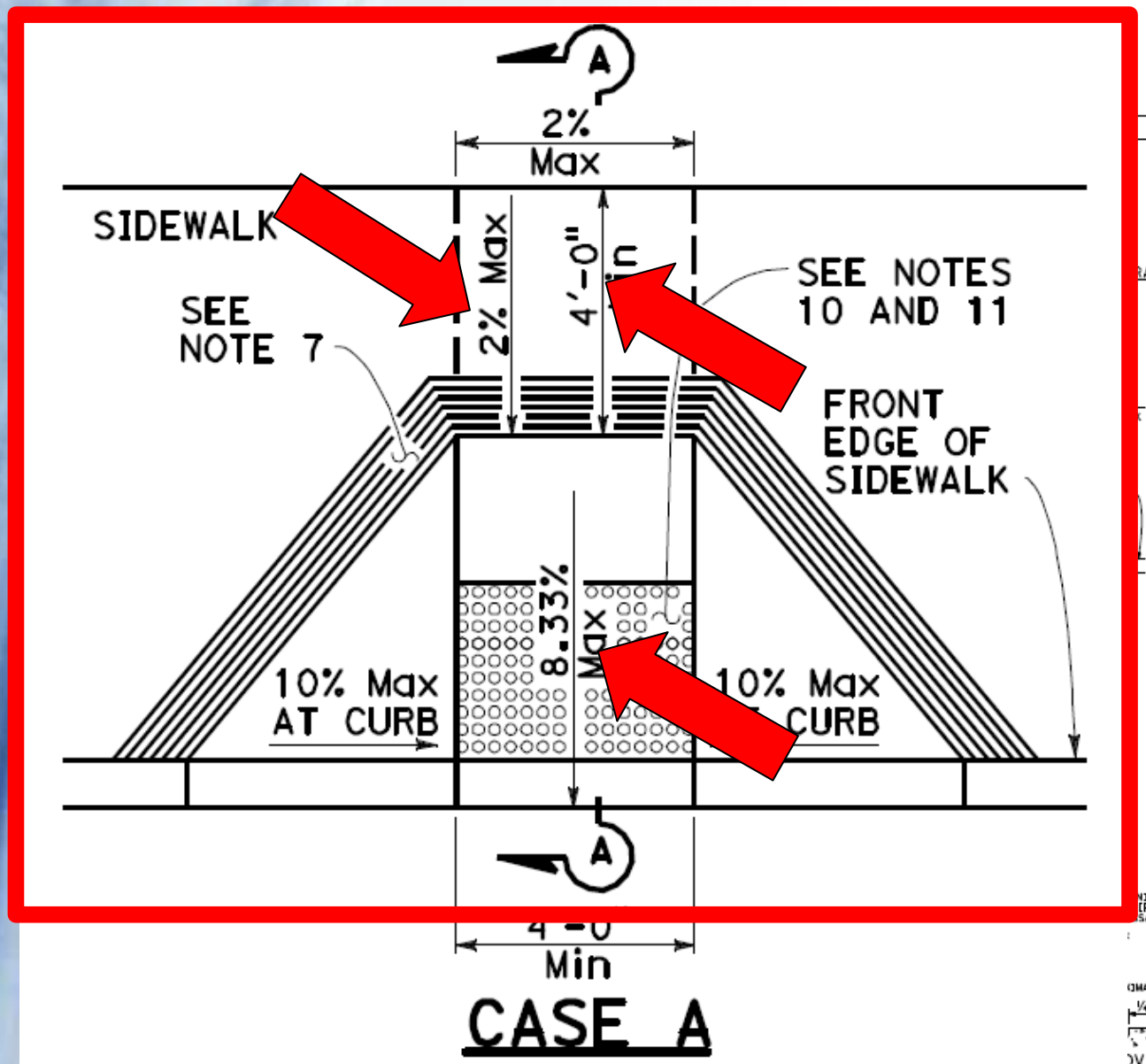


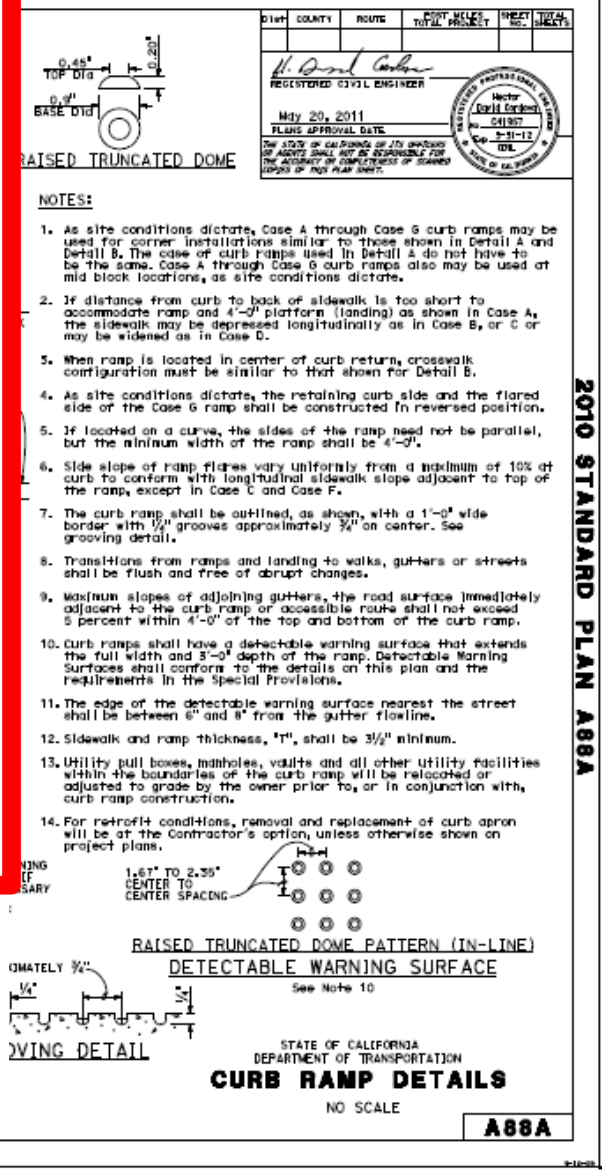
☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No	☐ N/A Gutter is 24" or more wide.	

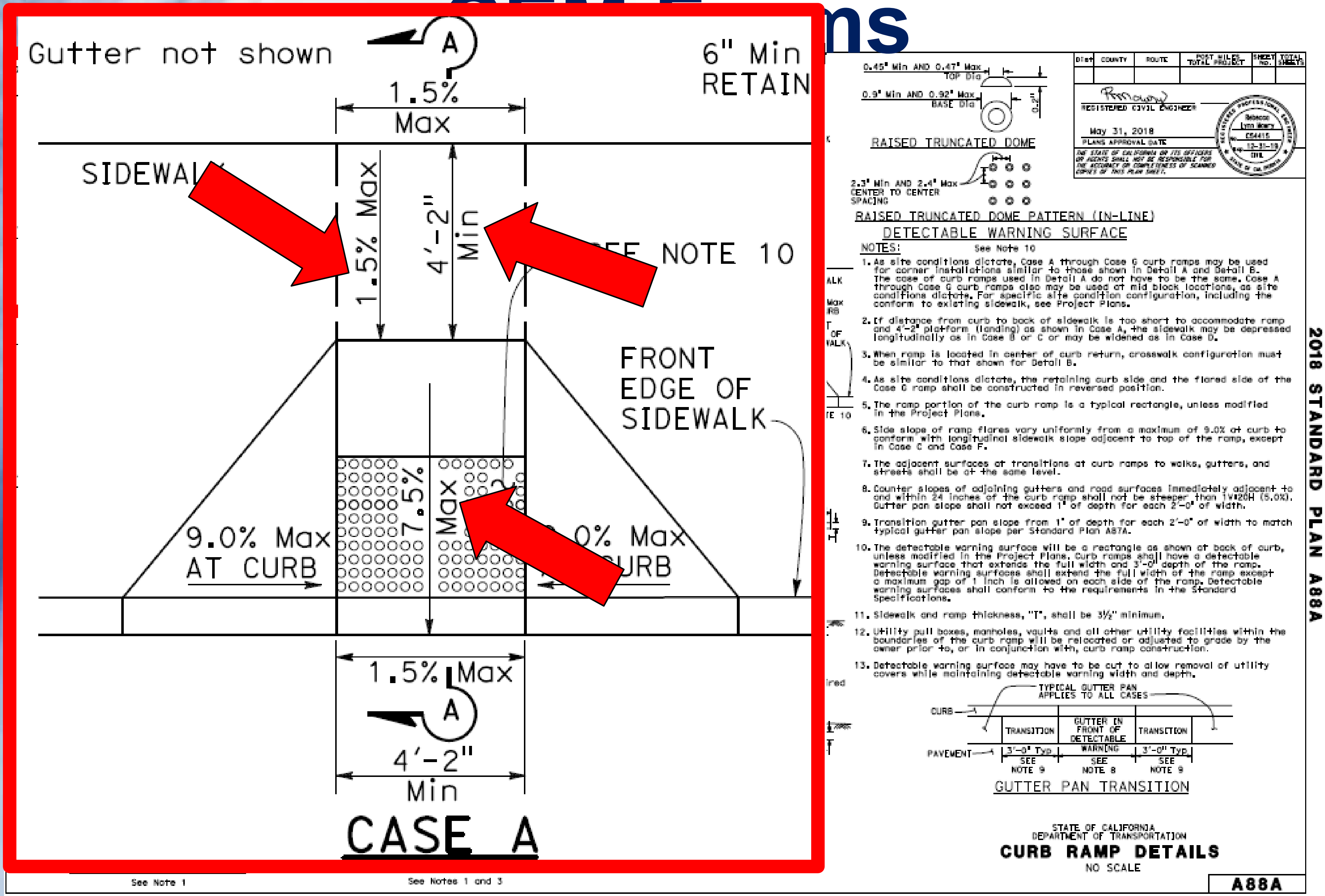
Remarks

Inspection by (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

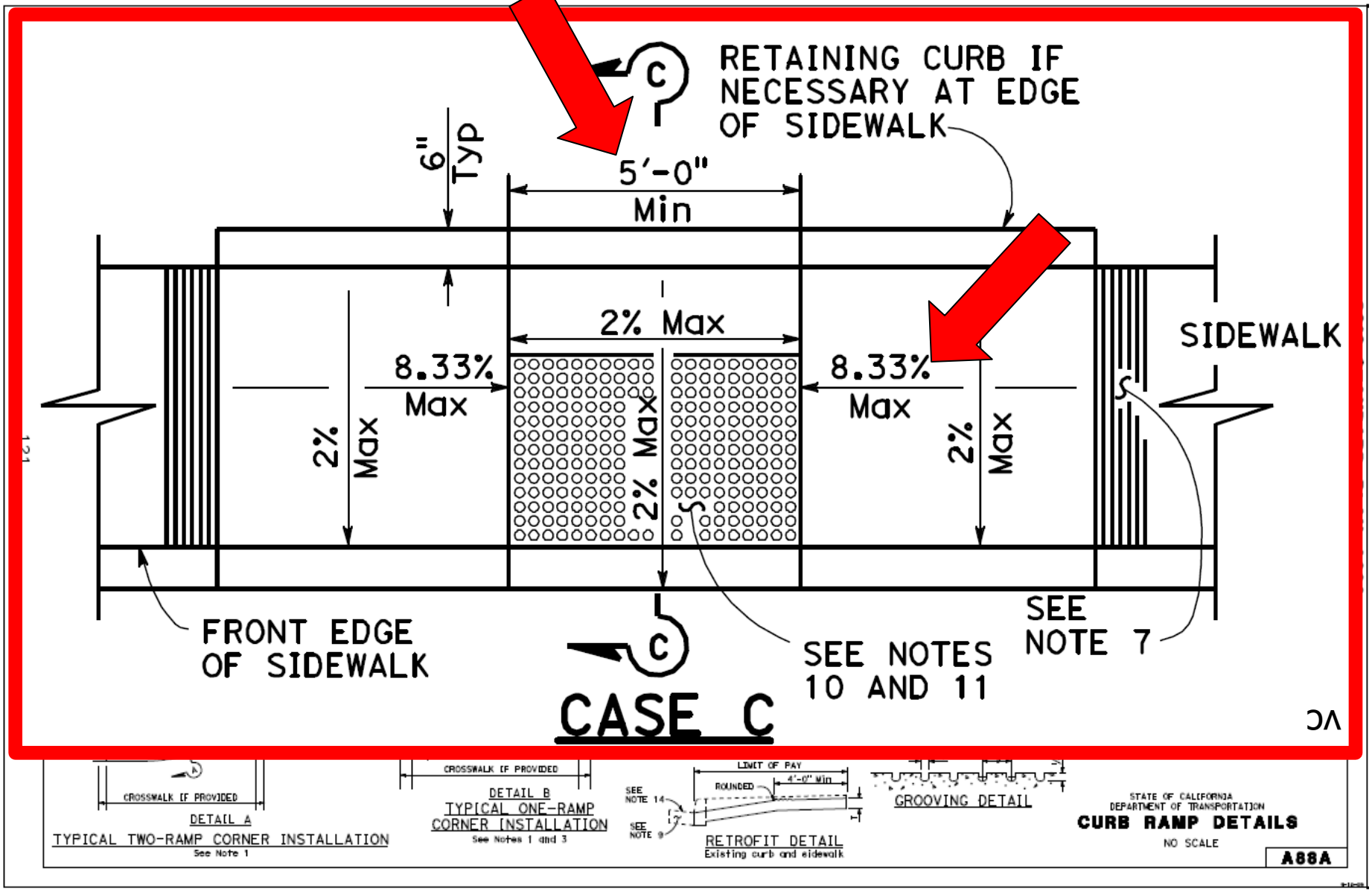

A
2%
Max
SIDEWALK
SEE
NOTE 7
2% Max
4'-0" Min
SEE NOTES
10 AND 11
FRONT
EDGE OF
SIDEWALK
8.33% Max
10% Max
AT CURB
10% Max
CURB
A
4'-0"
Min
CASE A


RAISED TRUNCATED DOME
NOTES:
1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-0" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
5. If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-0".
6. Side slope of ramp flares vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The curb ramp shall be outlined, as shown, with a 1'-0" wide border with ½" grooves approximately ¾" on center. See grooving detail.
8. Transitions from ramps and landing to walks, gutters or streets shall be flush and free of abrupt changes.
9. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-0" of the top and bottom of the curb ramp.
10. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details on this plan and the requirements in the Special Provisions.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
12. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
13. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
14. For retrofit conditions, removal and replacement of curb apron will be at the Contractor's option, unless otherwise shown on project plans.
1.67" TO 2.35" CENTER TO CENTER SPACING
RAISED TRUNCATED DOME PATTERN (IN-LINE)
DETECTABLE WARNING SURFACE
See Note 10
REGISTERED CIVIL ENGINEER
May 20, 2011
PLANS APPROVAL DATE
2010 STANDARD PLAN A88A
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE
A88A
DETAIL A
TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1
CORNER INSTALLATION
See Notes 1 and 3
RETROFIT DETAIL
Existing curb and sidewalk

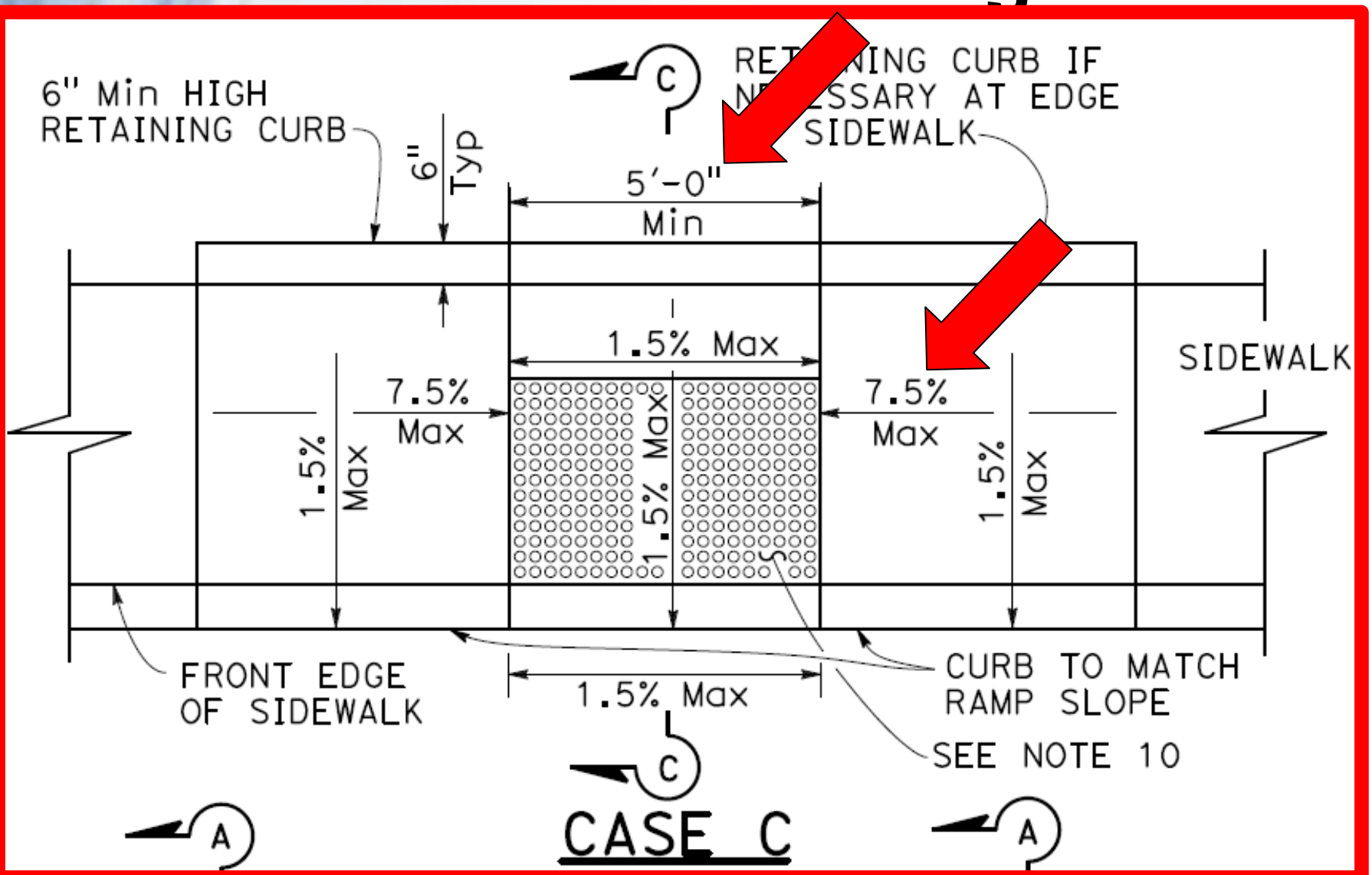


Gutter not shown
A
6" Min
RETAIN
1.5%
Max
SIDEWALK
1.5% Max
4'-2" Min
SEE NOTE 10
FRONT
EDGE OF
SIDEWALK
7.5% Max
9.0% Max
AT CURB
9.0% Max
AT CURB
1.5% Max
4'-2"
Min
CASE A
See Note 1
See Notes 1 and 3
0.45" Min AND 0.47" Max
TOP Dia
0.9" Min AND 0.92" Max
BASE Dia
0.2"
RAISED TRUNCATED DOME
2.3" Min AND 2.4" Max
CENTER TO CENTER
SPACING
RAISED TRUNCATED DOME PATTERN (IN-LINE)
DETECTABLE WARNING SURFACE
NOTES:
See Note 10
1. As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.
2. If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
4. As site conditions dictate, the retaining curb side and the flared side of the Case C ramp shall be constructed in reversed position.
5. The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.
6. Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
7. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
8. Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1V:20H (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
9. Transition gutter pan slope from 1" of depth for each 2'-0" of width to match typical gutter pan slope per Standard Plan A87A.
10. The detectable warning surface will be a rectangle as shown at back of curb, unless modified in the Project Plans. Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except a maximum gap of 1 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.
11. Sidewalk and ramp thickness, "T", shall be 3½" minimum.
12. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
13. Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.
TYPICAL GUTTER PAN
APPLIES TO ALL CASES
CURB
TRANSITION
GUTTER IN FRONT OF DETECTABLE WARNING
TRANSITION
PAVEMENT
3'-0" Typ
3'-0" Typ
SEE NOTE 9
SEE NOTE 8
SEE NOTE 9
GUTTER PAN TRANSITION
Dist
COUNTY
ROUTE
POST MILES TOTAL PROJECT
SHEET No.
TOTAL SHEETS
REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.
2018 STANDARD PLAN A88A
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE
A88A

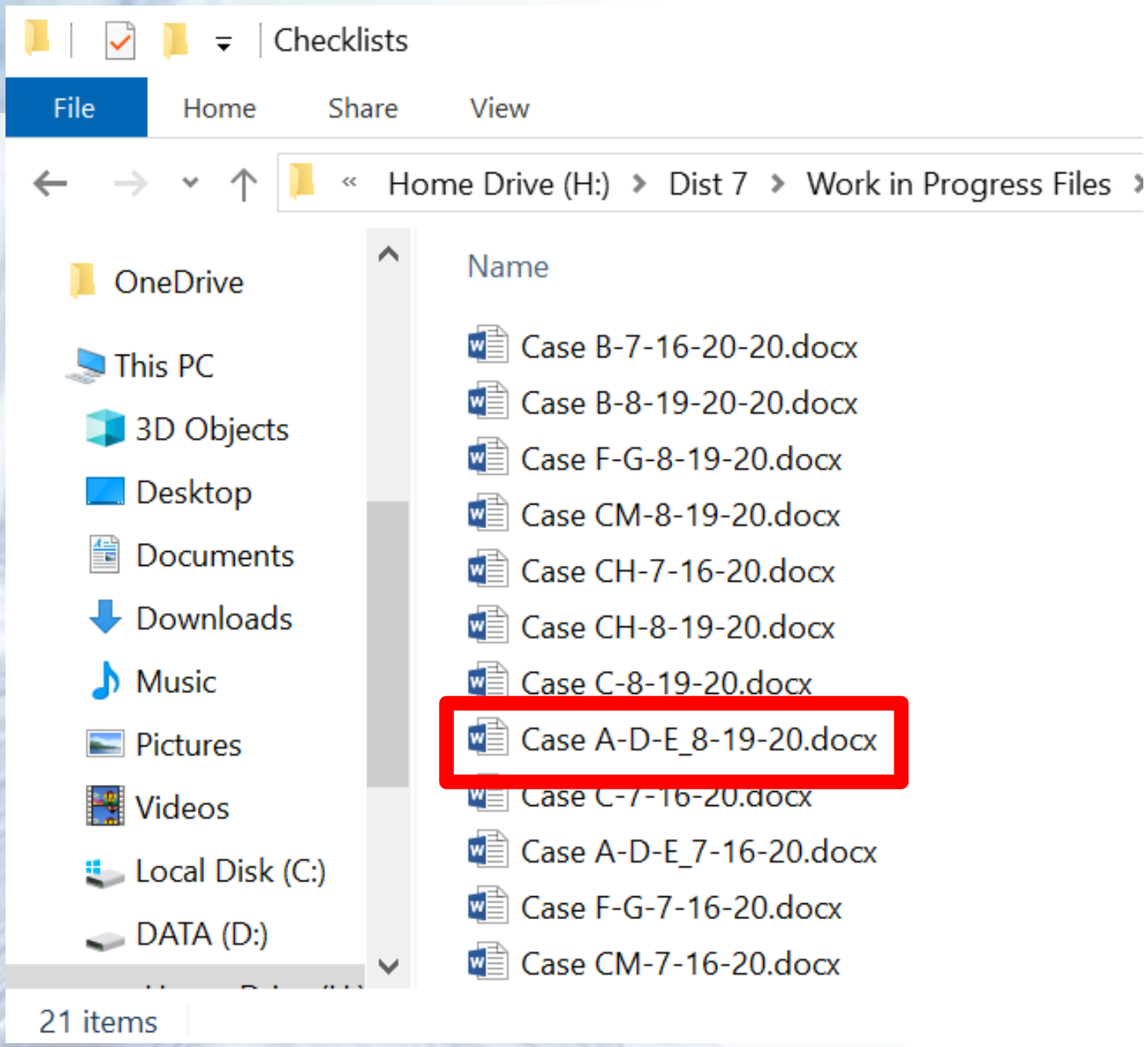
Bottom Landing

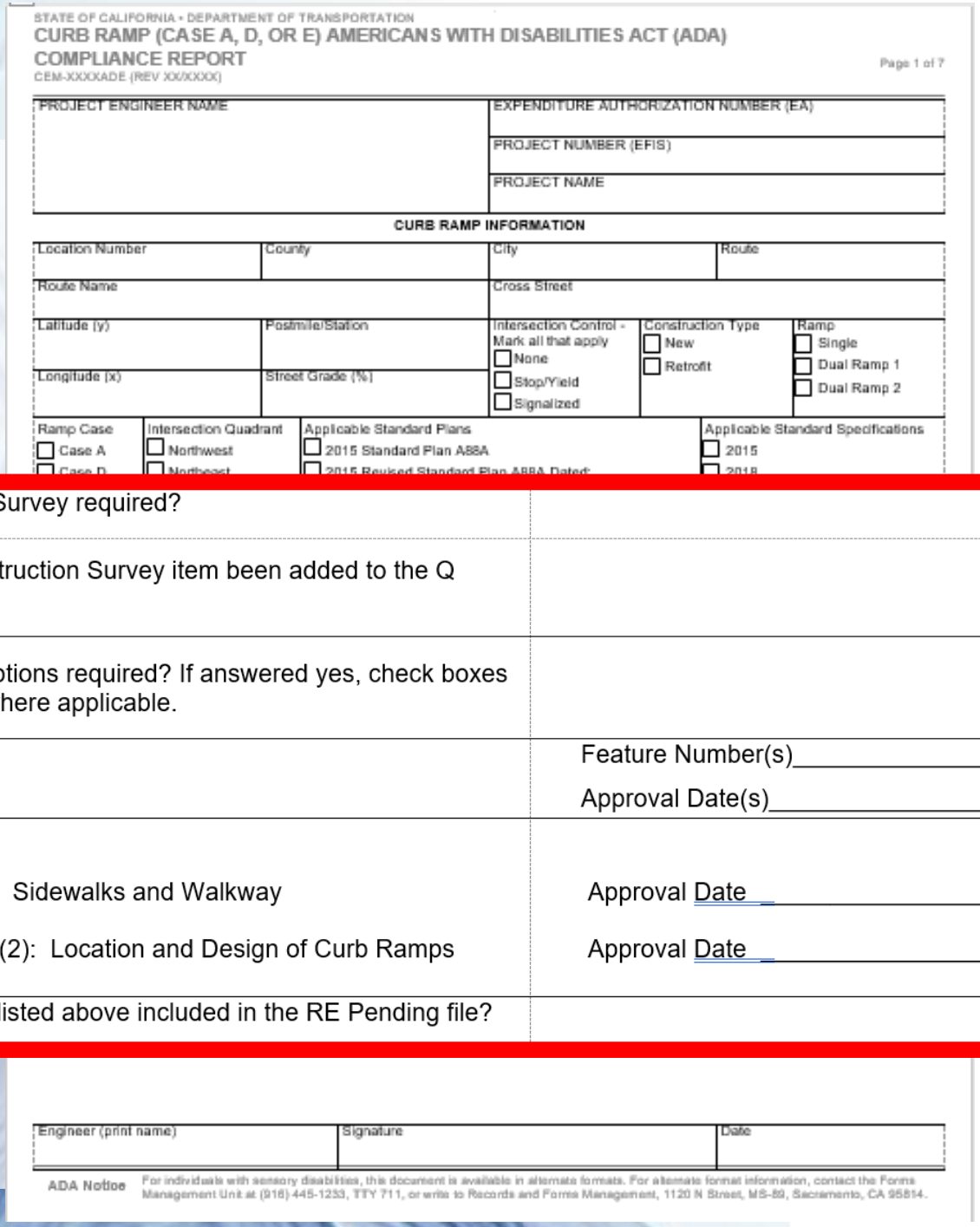


Bottom Landing



Design Checklist


Checklists
File
Home
Share
View
Home Drive (H:) › Dist 7 › Work in Progress Files
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
DATA (D:)
Name
Case B-7-16-20-20.docx
Case B-8-19-20-20.docx
Case F-G-8-19-20.docx
Case CM-8-19-20.docx
Case CH-7-16-20.docx
Case CH-8-19-20.docx
Case C-8-19-20.docx
Case A-D-E_8-19-20.docx
Case C-7-16-20.docx
Case A-D-E_7-16-20.docx
Case F-G-7-16-20.docx
Case CM-7-16-20.docx
21 items



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE REPORT

CEM-XXXXADE (REV XX/XXXX)

Page 1 of 7

PROJECT ENGINEER NAME	EXPENDITURE AUTHORIZATION NUMBER (EA)
	PROJECT NUMBER (EFIS)
	PROJECT NAME

CURB RAMP INFORMATION

Location Number	County	City	Route
Route Name		Cross Street	
Latitude (y)	Postmile/Station	Intersection Control - Mark all that apply: ☐ None ☐ Stop/Yield ☐ Signalized	Construction Type: ☐ New ☐ Retrofit
Longitude (x)	Street Grade (%)		Ramp: ☐ Single ☐ Dual Ramp 1 ☐ Dual Ramp 2

Ramp Case	Intersection Quadrant	Applicable Standard Plans	Applicable Standard Specifications
☐ Case A	☐ Northwest	☐ 2015 Standard Plan A88A	☐ 2015
☐ Case D	☐ Northeast	☐ 2015 Revised Standard Plan A88A Dated:	☐ 2018

Are Pre/Post Construction Survey required?	☐ Yes ☐ No
If yes, has a Pre/Post Construction Survey item been added to the Q Sheets?	☐ Yes ☐ No
Are there any Design Exceptions required? If answered yes, check boxes and complete information where applicable.	☐ Yes ☐ No
☐ DIB 82:	Feature Number(s)_____ Approval Date(s)_____
☐ HDM Index 105:	
☐ HDM Index 105.2: Sidewalks and Walkway	Approval Date _____
☐ HDM Index 105.5(2): Location and Design of Curb Ramps	Approval Date _____
Are the Design Exceptions listed above included in the RE Pending file?	☐ Yes ☐ No

Engineer (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE REPORT

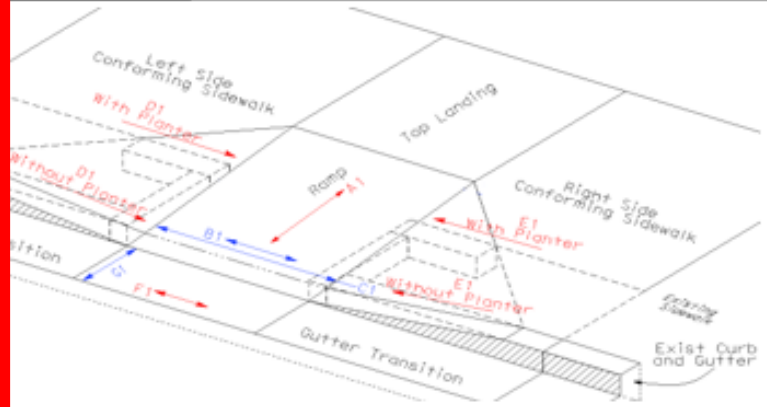
CEM-XXXXADE (REV XX/XXXX)

Page 2 of 7

PROJECT ENGINEER NAME	EXPENDITURE AUTHORIZATION NUMBER (EA)
	PROJECT NUMBER (EFIS)
	PROJECT NAME

Ramp Case	Intersection Quadrant		Ramp
☐ Case A	☐ Northwest	☐ Southwest	☐ Single
☐ Case D	☐ Northeast	☐ Southeast	☐ Dual Ramp 1
☐ Case E	☐ Mid-Block		☐ Dual Ramp 2

CURB RAMP (CASE A, D, or E) MEASUREMENTS: RAMP, FLARES & GUTTER



Verify ADA compliance dimensions and slopes:

	Ramp Width (inches)	Left Flare Slope at Front Edge of Sidewalk (x.x%)	Right Flare Slope at Front Edge of Sidewalk (x.x%)	Gutter Slope (x.x%)	Gutter Cross Slope (x.x%)
	C1	D1	E1	F1	G1
	48" or greater? ☐Yes ☐No	10.0% or less? ☐Yes ☐No	10.0% or less? ☐Yes ☐No	2.0% or less? ☐Yes ☐No If marked "no" is the crossing uncontrolled or signalized? ☐Yes ☐No If marked "no," does the scope of the project fall under DIB 82-06, Section 4.1.2? ☐Yes ☐No	5.0% or less? ☐Yes ☐No

	Signature	Date

...sory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms ...916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Ramp Slope (x.x%)

A1	

8.33% or less?

☐ Yes ☐ No

If marked "no," is the ramp length over 15'?

☐ Yes ☐ No

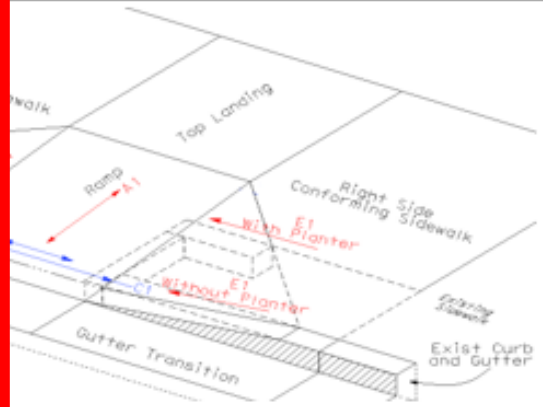
STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA)

Page 2 of 7

EXPENDITURE AUTHORIZATION NUMBER (EA)		
PROJECT NUMBER (EFIS)		
PROJECT NAME		
Ramp Case: ☐ Case A ☐ Case D ☐ Case E	Intersection Quadrant: ☐ Northwest ☐ Southwest ☐ Northeast ☐ Southeast ☐ Mid-Block	Ramp: ☐ Single ☐ Dual Ramp 1 ☐ Dual Ramp 2

) MEASUREMENTS: RAMP, FLARES & GUTTER



nce dimensions and slopes:

Left Flare Slope Front Edge Sidewalk (x.x%)	Right Flare Slope at Front Edge of Sidewalk (x.x%)	Gutter Slope (x.x%)	Gutter Cross Slope (x.x%)
	E1	F1	G1
% or less? ☐Yes ☐No	10.0% or less? ☐Yes ☐No	2.0% or less? ☐Yes ☐No If marked "no" is the crossing uncontrolled or signalized? ☐Yes ☐No If marked "no," does the scope of the project fall under DIB 82-06, Section 4.1.2? ☐Yes ☐No	5.0% or less? ☐Yes ☐No

Date

available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Ramp Cross Slope (x.x%)

B1	

2.0% or less?
☐Yes ☐No

If marked "no," is the crossing uncontrolled or signalized and is 5% or less?
☐Yes ☐No

If marked "no," does the scope of the project fall under DIB 82-06, Section 4.1.2?
☐Yes ☐No

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE REPORT

CEM-XXXXADE (REV XX/XXXX)

PROJECT ENGINEER NAME		EXPENDITURE AUTHORIZATION NUMBER (EA)		
		PROJECT NUMBER (EFIS)		
		PROJECT NAME		
Location Number	Route Name	Ramp Case	Intersection Quadrant	Ramp
	Cross Street	☐ Case A ☐ Case D ☐ Case E	☐ Northwest ☐ Southwest ☐ Northeast ☐ Southeast ☐ Mid-Block	☐ Single ☐ Dual Ramp 1 ☐ Dual Ramp 2

Item No.	Requirement
1	Is the detectable warning surface yellow in color?
2	If marked "no" for item 1, has an NSSP been approved? If yes, provide NSSP approval date: _____

5	Is the detectable warning surface placed at the lower landing at the back of curb where the distance from either end of the bottom grade break to the back of curb is more than 5.0 ft.?	☐ Yes ☐ No ☐ N/A
6	Are any utility boxes, manholes, or vaults within the boundary of curb ramp called-out for "Adjust to Grade"?	☐ Yes ☐ No ☐ N/A
7	For obstructions such as signposts, lighting standards, power/telephone poles, guywires, or mailboxes in the construction area, complete items 8-11. If no obstructions are located within the construction area skip to item 12.	Item 8-11 ☐ N/A
8	Are objects with leading edges between 27" to 80" height, protected by guardrails or other barriers less than 27" above the finished surface?	☐ Yes ☐ No ☐ N/A
9	For objects with leading edges between 27" to 80" height, is horizontal protrusion less than 4" (4.5" for handrails) without reducing the 48" minimum clear width requirement?	☐ Yes ☐ No ☐ N/A
10	For objects mounted on single posts that overhang the sidewalk or curb ramp, are the overhangs less than 12" when located between heights of 27" to 80"?	☐ Yes ☐ No ☐ N/A
11	For objects mounted between posts, where the clear distance between posts is greater than 12", is the lowest edge of such object less than 27" or greater than 80" above the finished surface?	☐ Yes ☐ No ☐ N/A
12	For a curb ramp at a signalized intersection, complete items 13-16. If not at signalized intersection, skip to item 17.	Item 13-16 ☐ N/A
13	Is the pedestrian push button wheelchair accessible from unobstructed forward reach?	☐ Yes ☐ No ☐ N/A
14	Is the pedestrian push button wheelchair accessible from unobstructed side reach?	☐ Yes ☐ No ☐ N/A

Engineer (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CURB RAMP (CASE A, D, OR E) AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE REPORT

CEM-XXXXADE (REV XX/XXXX)

PROJECT ENGINEER NAME	EXPENDITURE AUTHORIZATION NUMBER (EA)
	PROJECT NUMBER (EFIS)
	PROJECT NAME

Location Number	Route Name / Cross Street	Ramp Case	Intersection Quadrant	Ramp
	Route Name	☐ Case A ☐ Case D ☐ Case E	☐ Northwest ☐ Southwest ☐ Northeast ☐ Southeast ☐ Mid-Block	☐ Single ☐ Dual Ramp 1 ☐ Dual Ramp 2
	Cross Street			

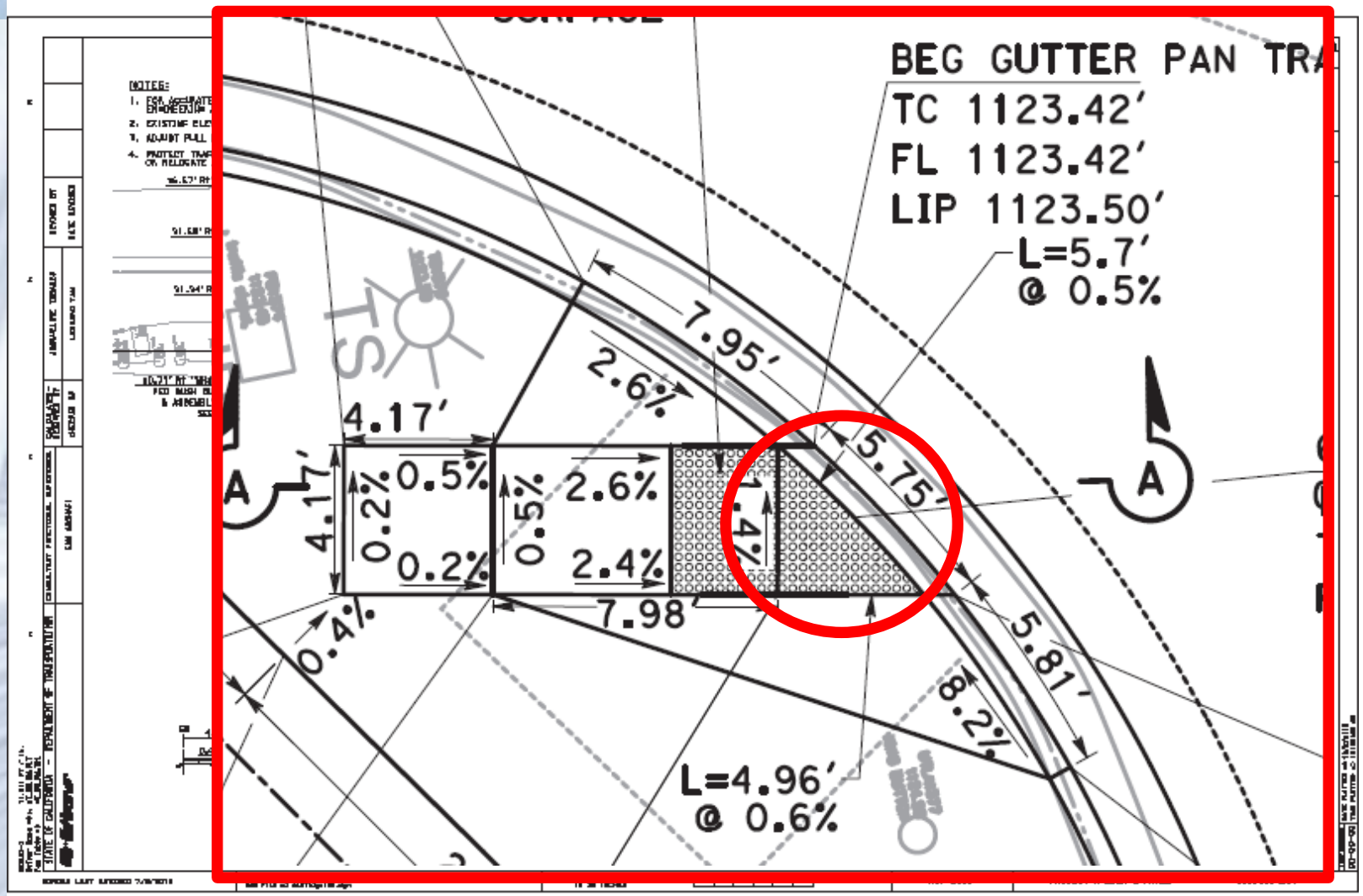
ADA CURB RAMP (CASE A, D, or E) CHECKLIST

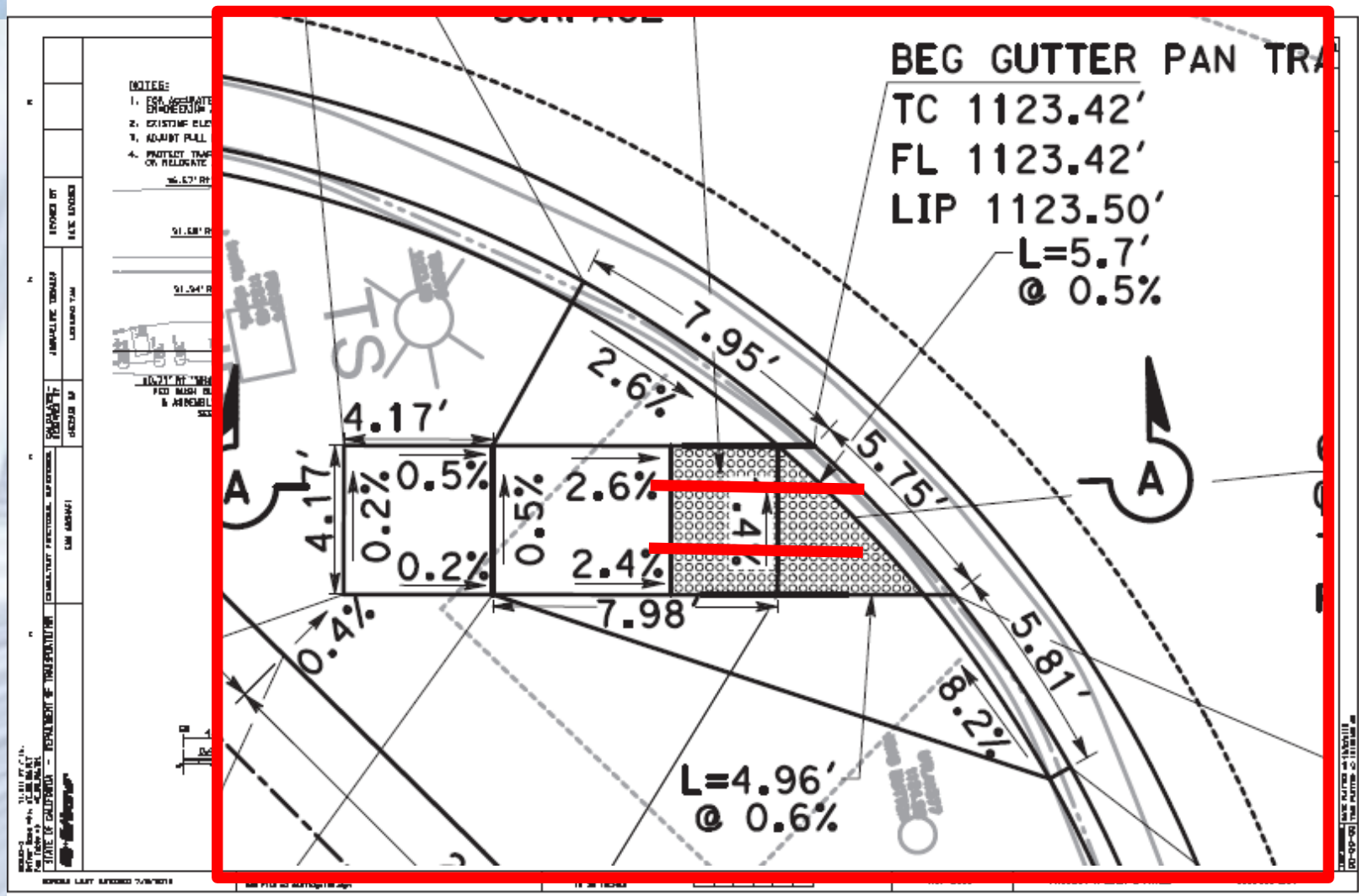
Item No.	Requirement	Compliant
15	For unobstructed side reach, is the pedestrian push button within 10 inches of the edge of sidewalk?	☐ Yes ☐ No ☐ N/A
16	Is the sidewalk slope and cross slope less than 2.0% within the 30" x 48" area adjacent to the pedestrian push button?	☐ Yes ☐ No ☐ N/A
17	For a curb ramp located at an intersection with a marked crosswalk answer items 18-21. If no crosswalk, skip to item 22.	Item 18-21 ☐ N/A
18	Does the crosswalk line up with the curb ramp?	☐ Yes ☐ No ☐ N/A
19	For one-ramp corner (diagonal) installation, is the crosswalk a minimum of 4'-2" back from bottom of curb ramp, as shown on Standard Plan A88A Detail B?	☐ Yes ☐ No ☐ N/A
20	For one ramp corner (diagonal) installation with flared sides, is there at least a 24-inch long segment of curb ramp within the crosswalk, as shown on Standard Plan A88A Detail B?	☐ Yes ☐ No ☐ N/A
21	Is there a minimum area of 48" x 48" within the crosswalk in front of the curb ramp?	☐ Yes ☐ No ☐ N/A
22	Is the roadway surface within the pedestrian street crossing area in good condition?	☐ Yes ☐ No
25	Is the curb ramp directional? If yes, answer items 26-27. Mark N/A if not directional.	
26	Is the slope of the triangular area below the bottom grade break 2% or less?	
27	Is there a grade break that is perpendicular to the crosswalk travel at the bottom of the ramp?	

Engineer (print name)	Signature	Date

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms Management Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.


MIDDLE DR


BEG GUTTER PAN TRA
TC 1123.42'
FL 1123.42'
LIP 1123.50'
L=5.7'
@ 0.5%
7.95'
2.6%
4.17'
5.75'
A
A
4.17'
0.2%
0.5%
0.2%
0.5%
2.6%
2.4%
1.4%
7.98'
0.4%
5.81'
8.2%
L=4.96'
@ 0.6%


BEG GUTTER PAN TRA
TC 1123.42'
FL 1123.42'
LIP 1123.50'
L=5.7'
@ 0.5%
7.95'
2.6%
5.75'
4.17'
4.17'
0.2%
0.5%
0.2%
0.5%
2.6%
2.4%
.4%
7.98'
0.4%
5.81'
8.2%
L=4.96'
@ 0.6%
A
A

Also regarding (8), if there is a stop sign for the minor leg but not for the major highway, the curb ramp cross slope serving the minor leg crossing will be limited to 2% maximum; but the curb ramp cross slope serving the major highway crossing should not exceed the major highway grade. A single diagonal curb ramp cross slope should be designed to the lowest feasible cross slope but not to exceed the average of the two cross slopes prescribed for each leg.

Standard Plan A88A shows the illustration of curb ramps that may apply to curved alignments on a corner or on a tangent. Detail B of Standard Plan A88A shows a diagonal curb ramp, which is a single curb ramp of any case type that is located at the apex of the corner at an intersection per Part II of *Designing Sidewalks and Trails for Access*. The ramp width shall be consistent with the width of the pedestrian access route. Flares are needed if the curb ramp is located where pedestrians may traverse across the ramp.

The Federal recommendation found in Part II of *Designing Sidewalks and Trails for Access* is for curb ramps to be aligned perpendicular to curb face. However, directional curb ramps may be designed by showing a bottom grade break perpendicular to crosswalk travel.

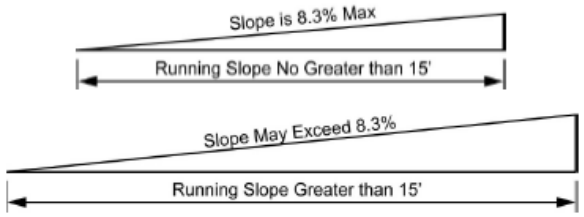
In some cases a curb ramp cannot be constructed because there is no sidewalk at the intersection. However, there may be reason to provide a blended transition, which could be at-grade. For example a traffic signal with pedestrian push buttons, where there is no sidewalk, should have a blended transition (1) at the push button location. In this case, the clear width (2), landing (3), counter slope (4), and cross slope (8) applies; Sections 4.3.14 (1) Detectable Warning Surfaces and 4.3.15 Reach Ranges also applies.

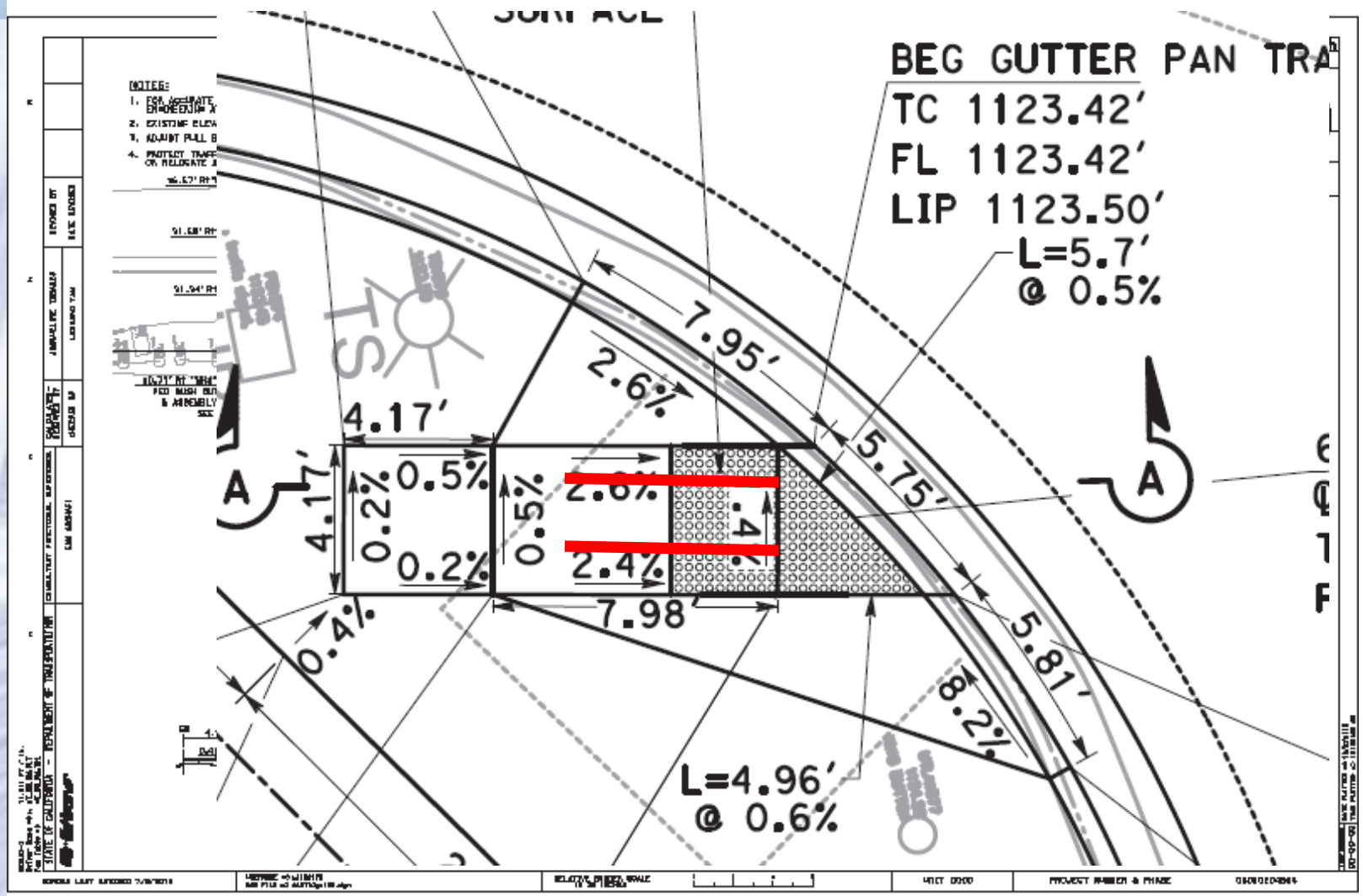
The Federal recommendation found in Part II of *Designing Sidewalks and Trails for Access* is for curb ramps to be aligned perpendicular to curb face. However, directional curb ramps may be designed by showing a bottom grade break perpendicular to crosswalk travel.

Height of Curb Face	Curb Ramp Run (Horizontal Length)
4 inches	63 inches
5 inches	78 inches
6 inches	95 inches
7 inches	111 inches
7-½ inches	118-½ inches
8 inches	126 inches

Figure 4.3.8 (1) illustrates the intent of Section 4.3.8 (1).

FIGURE 4.3.8 (1) – Running Slope




BEG GUTTER PAN TRA
TC 1123.42'
FL 1123.42'
LIP 1123.50'
L=5.7'
@ 0.5%
7.95'
2.6%
4.17'
5.75'
A
A
4.17'
0.2%
0.5%
0.2%
0.5%
2.6%
2.4%
.4'
7.98'
0.4%
5.81'
8.2%
L=4.96'
@ 0.6%

Questions?