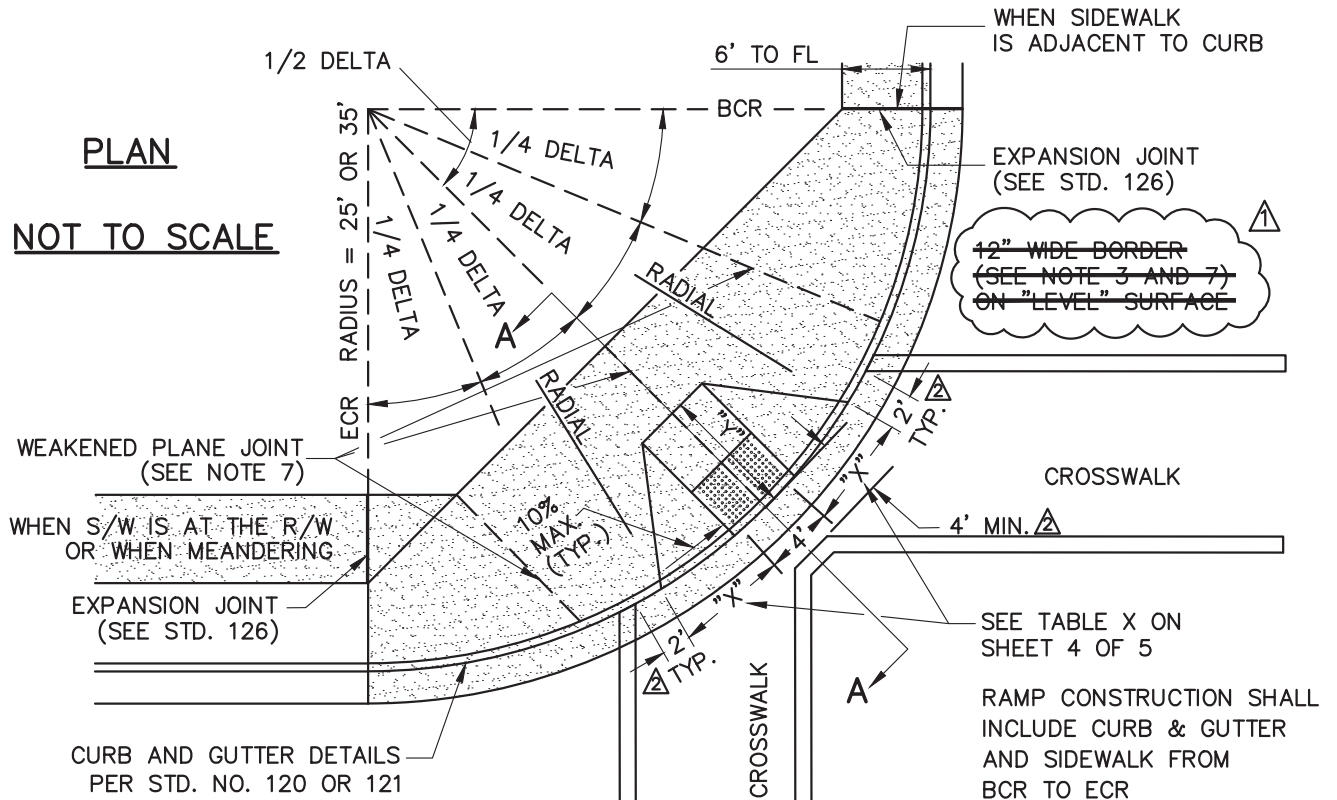


**PLAN**  
**NOT TO SCALE**



**TABLE Y\***

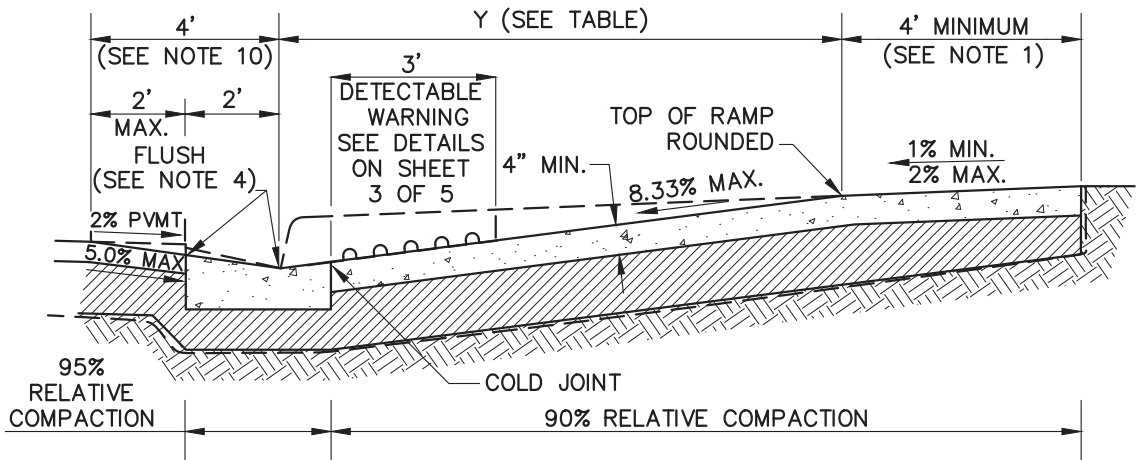
CF	Y
6"	6'
8"	8'

$$Y* = \frac{\text{CURB FACE (FT.)}}{8.33\%}$$

\* THIS DISTANCE IS APPROXIMATE, GRADE SHALL CONTROL, SEE NOTE 5 ON SHEET 5 OF 5.

CURB RAMP "CASE A" SHALL ALWAYS BE USED EXCEPT WITH PRIOR APPROVAL OF THE CITY ENGINEER.

SEE SHEET 5 OF 5 FOR NOTES.



**SECTION A-A**

▲ PER CALIFORNIA BUILDING CODE SECTION 11B-406.5.11, 12-INCH GROOVED BORDER IS NOT REQUIRED.



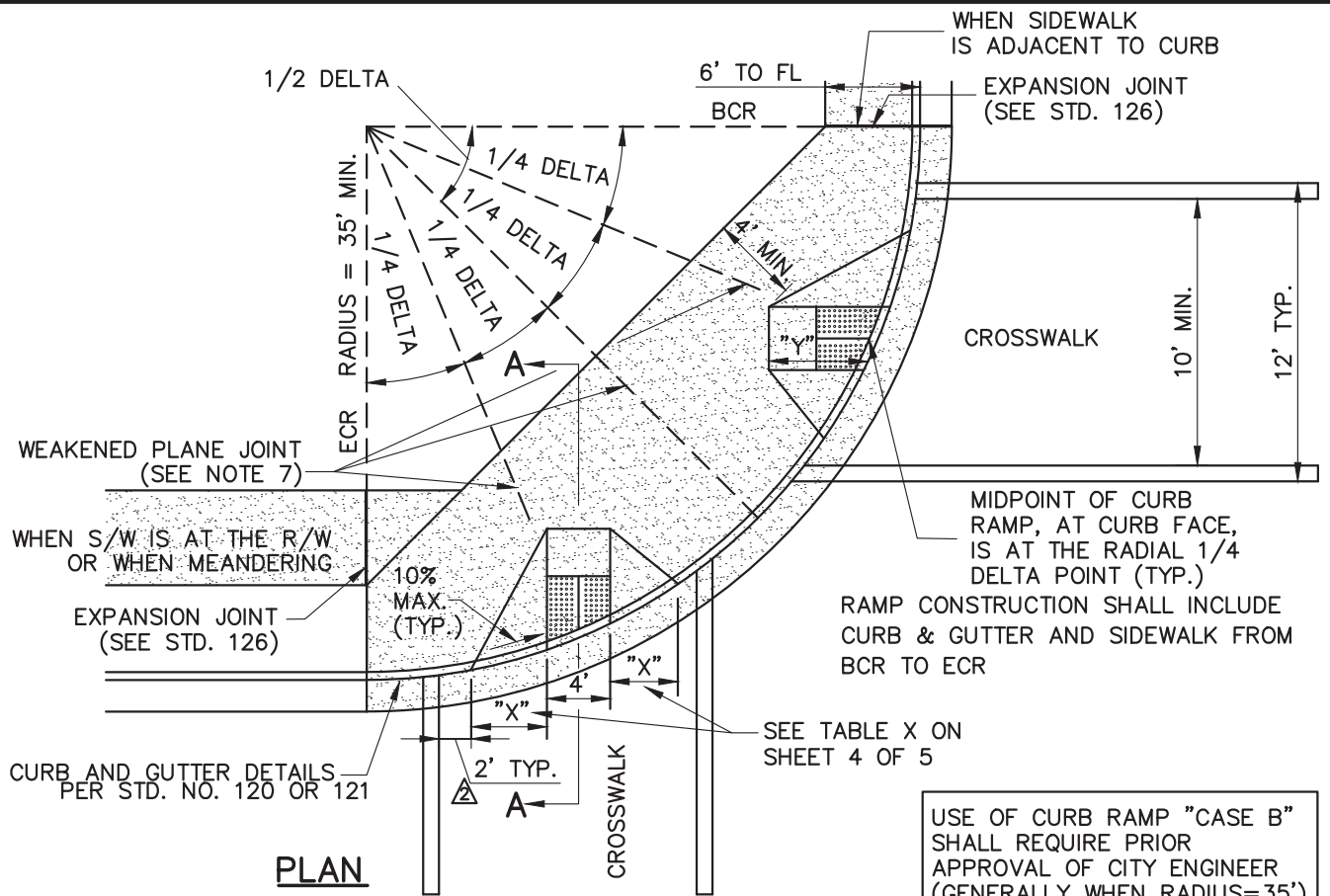
<i>Juan Raya</i>		03/15/23	
JUAN RAYA, P.E. CITY ENGINEER RCE 68510		DATE	
REV.	DRAWN BY:	APP'D:	DATE:
▲	DV	JR	02/26/19
▲	DU	JR	03/15/23



**CURB RAMP  
CASE A**

STANDARD PLAN No.:  
SHEET 1 OF 5

**136**



**NOT TO SCALE**

SEE SHEET 5 OF 5 FOR NOTES.

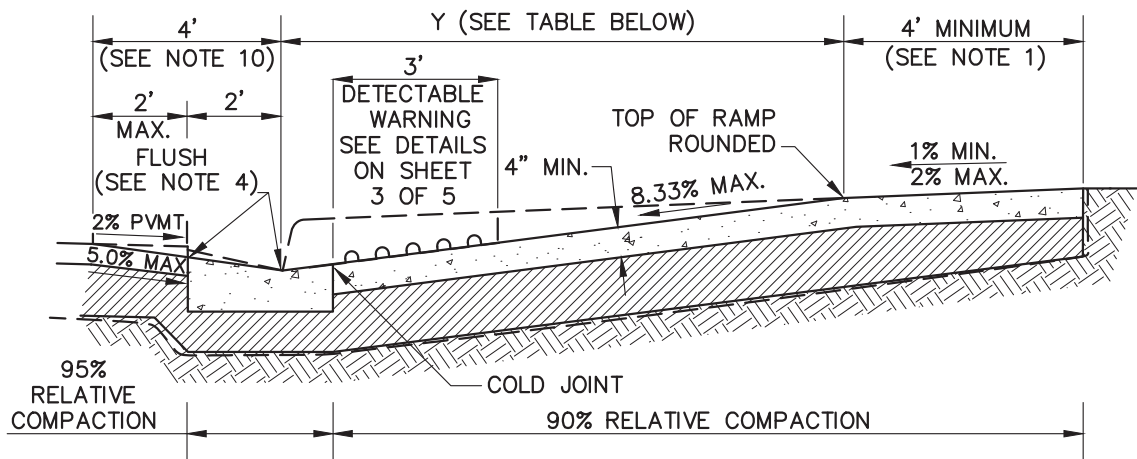


TABLE Y\*

CF	Y
6"	6'
8"	8'

$$Y^* = \frac{\text{CURB FACE (FT.)}}{8.33\%}$$

**SECTION A-A**

\* THIS DISTANCE IS APPROXIMATE, GRADE SHALL CONTROL, SEE NOTE 5 ON SHEET 5 OF 5.

⚠ PER CALIFORNIA BUILDING CODE SECTION 11B-406.5.11, 12-INCH GROOVED BORDER IS NOT REQUIRED.



<i>Juan Raya</i>		03/15/23	
JUAN RAYA, P.E.		DATE	
CITY ENGINEER			
RCE 68510			
REV.	DRAWN BY:	APP'D:	DATE:
⚠	DV	JR	02/26/19
⚠	DU	JR	03/15/23

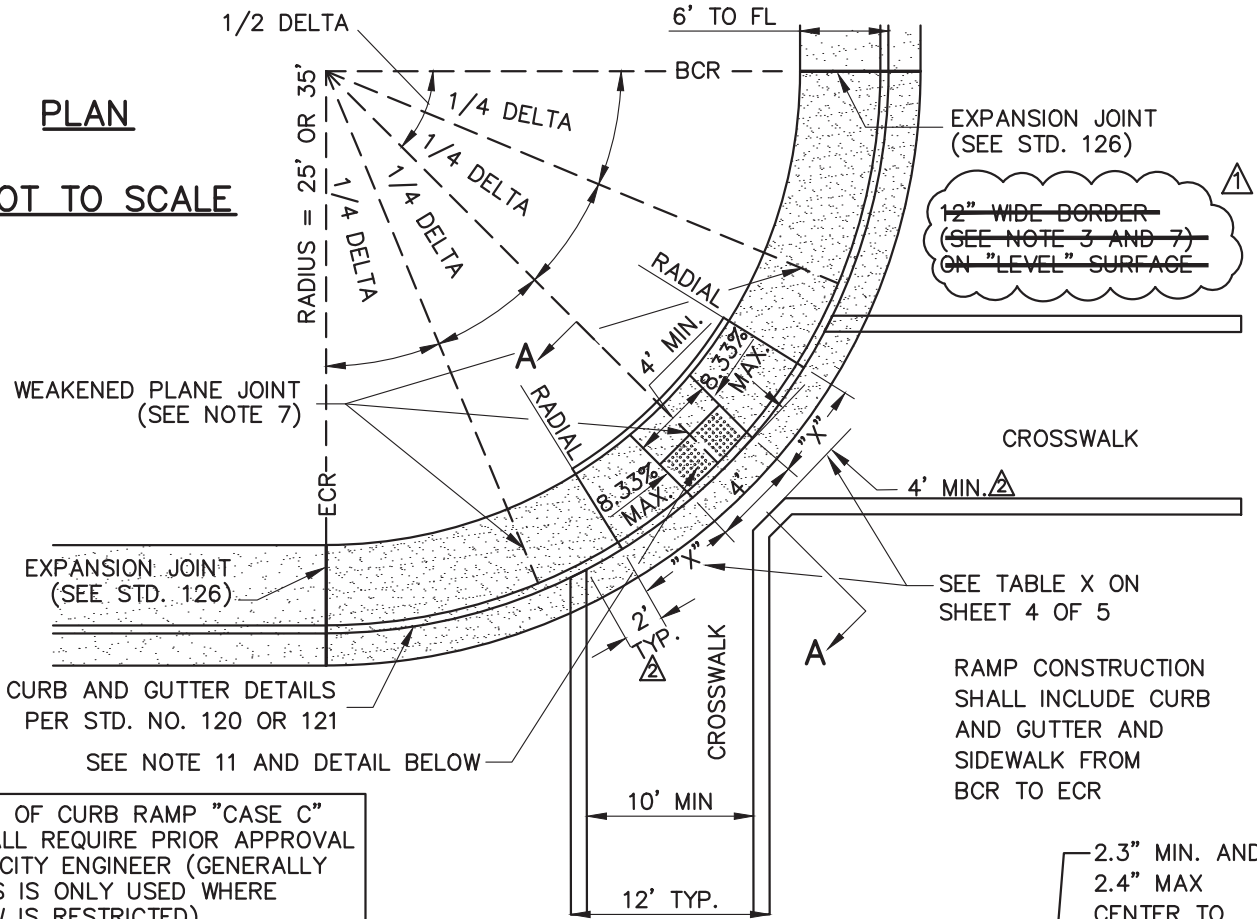


**CURB RAMP  
CASE B  
(ALTERNATE)**

STANDARD PLAN No.:  
SHEET 2 OF 5

**136**

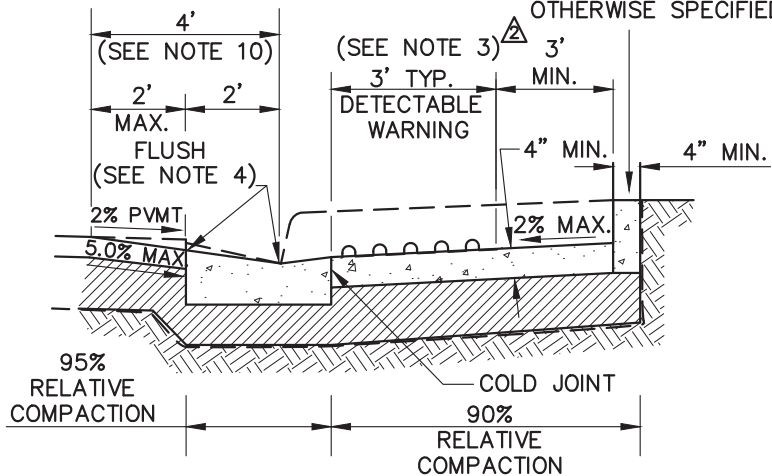
**PLAN**  
**NOT TO SCALE**



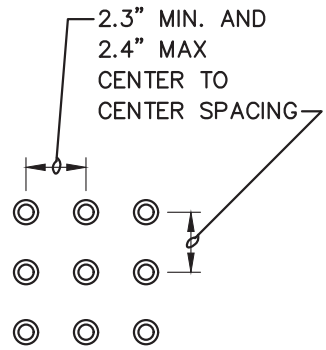
USE OF CURB RAMP "CASE C" SHALL REQUIRE PRIOR APPROVAL OF CITY ENGINEER (GENERALLY THIS IS ONLY USED WHERE R/W IS RESTRICTED).

SEE SHEET 5 OF 5 FOR NOTES.

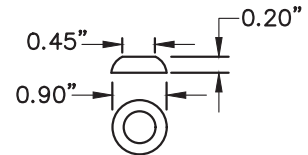
CONSTRUCT RETAINING CURB UNLESS OTHERWISE SPECIFIED



**SECTION A-A**



RAISED TRUNCATED DOME PATTERN



RAISED TRUNCATED DOME (IN-LINE) DETECTABLE WARNING SURFACE SEE NOTE 11

▲ PER CALIFORNIA BUILDING CODE SECTION 11B-406.5.11, 12-INCH GROOVED BORDER IS NOT REQUIRED.



*Juan Raya* 03/15/23  
DATE  
JUAN RAYA, P.E.  
CITY ENGINEER  
RCE 68510

REV.	DRAWN BY:	APP'D:	DATE:
▲	DV	JR	05/16/19
▲	DU	JR	03/15/23

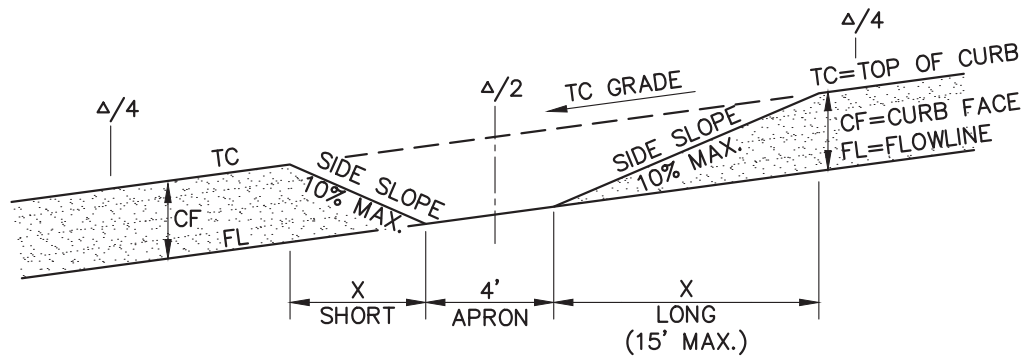


**CURB RAMP CASE C**

STANDARD PLAN No.:  
SHEET 3 OF 5

**136**

Z:\Public Works - Engineering Standards\INDIO-136 (Sheet 3 of 5) Rev #2 3/15/2023 11:35 AM



**PROFILE**

**TABLE X**

CF (IN)	RADIUS (FT)	SIDE SLOPE	X*	TC GRADE (ALONG CURB RETURN)					
				1%	2%	3%	4%	5%	6%
6"	35'	10%	X*S	4.6	4.2	3.9	3.6	3.4	3.2
			X*L	5.6	6.3	7.2	8.4	10.0	12.5
8"	35'	10%	X*S	6.1	5.6	5.2	4.8	4.5	4.2
			X*L	7.5	8.4	9.6	11.2	13.4	15.0

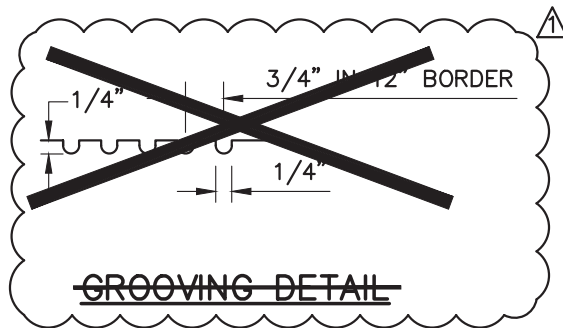
\*SEE NOTE 5 ON PAGE 5

**TO CALCULATE "X" DIMENSION:**

SHORT SIDE (DOWN SLOPE):  $X_S (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE} + \text{TC GRADE}}$

LONG SIDE (UP SLOPE):  $X_L (FT) = \frac{\text{CURB FACE (FT)}}{\text{SIDE SLOPE} - \text{TC GRADE}}$

ENGINEER TO SHOW  $X_S$  AND  $X_L$  ON IMPROVEMENT PLANS



⚠ PER CALIFORNIA BUILDING CODE SECTION 11B-406.5.11, 12-INCH GROOVED BORDER IS NOT REQUIRED.



<i>Juan Raya</i>		02/26/19	
JUAN RAYA, P.E. CITY ENGINEER RCE 68510		DATE	
REV.	DRAWN BY:	APP'D:	DATE:
⚠	DV	JR	02/26/19



**CURB RAMP**

STANDARD PLAN No.:  
SHEET 4 OF 5

**136**

**CONSTRUCTION NOTES:**

1. IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMMODATE RAMP AND 4' LANDING, THEN USE THE CASE "C" RAMP WITH APPROVAL FROM THE CITY ENGINEER; OTHERWISE, CASE "A" RAMP SHALL BE USED.
2. IF SIDEWALK IS LESS THAN 6' WIDE, THE FULL WIDTH OF THE SIDEWALK SHALL BE DEPRESSED AS SHOWN IN CASE C. MINIMUM SIDEWALK WIDTH IS 4' FROM BACK OF CURB.
- △ 3. DETECTABLE WARNING SURFACE CAN BE REDUCED DOWN TO 24"X48" BASED ON SITE CONDITIONS AND PRIOR APPROVAL BY THE CITY ENGINEER
4. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
5. CONTRACTOR SHALL USE "SMART" LEVEL OR OTHER GRADE MEASURING DEVICE(S) DURING CONSTRUCTION AS ACTUAL GRADES WILL CONTROL OVER SPECIFIED DISTANCES.
6. RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP (EXCEPT IN CASE C).
- △ 7. CONSTRUCT WEAKENED PLANE JOINTS (WPJ) AT CENTERLINE AND AT QUARTER DELTA WHEN INSIDE RADIUS EQUALS 35'. WHEN RADIUS EQUALS 25' CONSTRUCT WPJ PER CITY OF INDIO STD NO. 126 . EXPANSION JOINTS ARE REQUIRED AT BCR AND ECR.
8. ALL WORK SHALL MEET LATEST ADA AND STATE OF CALIFORNIA STANDARDS.
9. CONCRETE SHALL BE CLASS 560-C-3250.
10. MAXIMUM SLOPES OF ADJOINING GUTTERS: THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE BOTTOM OF THE CURB RAMP.
11. DETECTABLE WARNING SURFACES SHALL BE ARMOR-TILE DETECTABLE/TACTILE WARNING SURFACE TILE – CAST IN PLACE, OR EQUIVALENT.

SPECIFICATIONS:

PART NO.: ADA-C-3648W\*\*

SIZE: 36" X 48"


FEDERAL COLOR NUMBER: 33538 (FEDERAL YELLOW) △

MATERIAL: VITRIFIED POLYMER COMPOSITE

DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL CURB RAMPS THAT ENTER INTO A VEHICULAR TRAVEL WAY.

△ PER CALIFORNIA BUILDING CODE SECTION 11B-406.5.11, 12-INCH GROOVED BORDER IS NOT REQUIRED.



		08/23/23	
		DATE	
JUAN RAYA, P.E. CITY ENGINEER RCE 68510			
REV.	DRAWN BY:	APP'D:	DATE:
△	DV	JR	02/26/19
△	DU	JR	08/23/23



**CURB RAMP  
CONSTRUCTION  
NOTES**

STANDARD PLAN No.:  
SHEET 5 OF 5

**136**