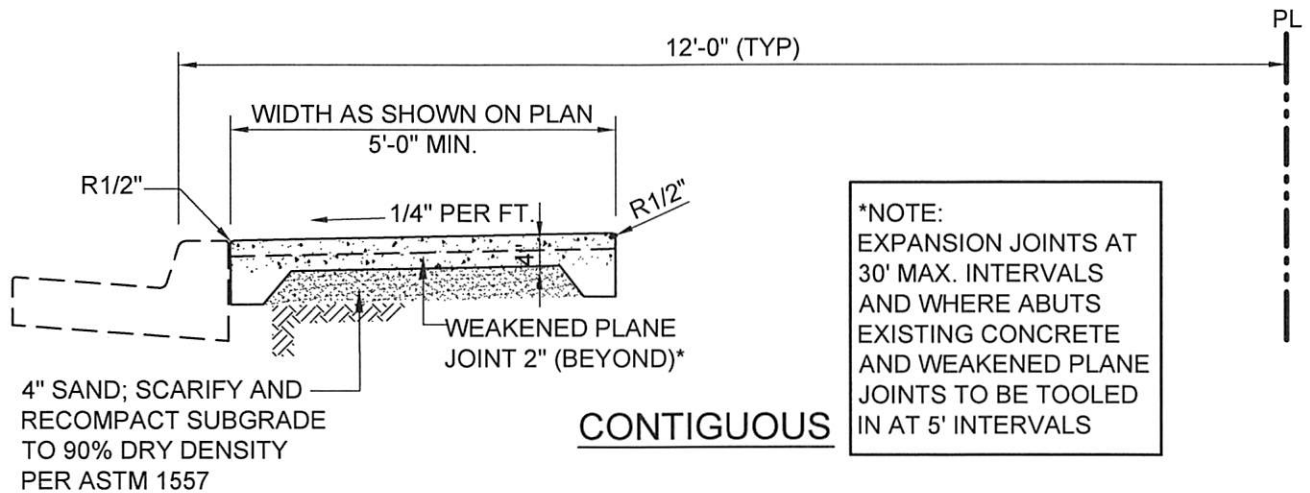
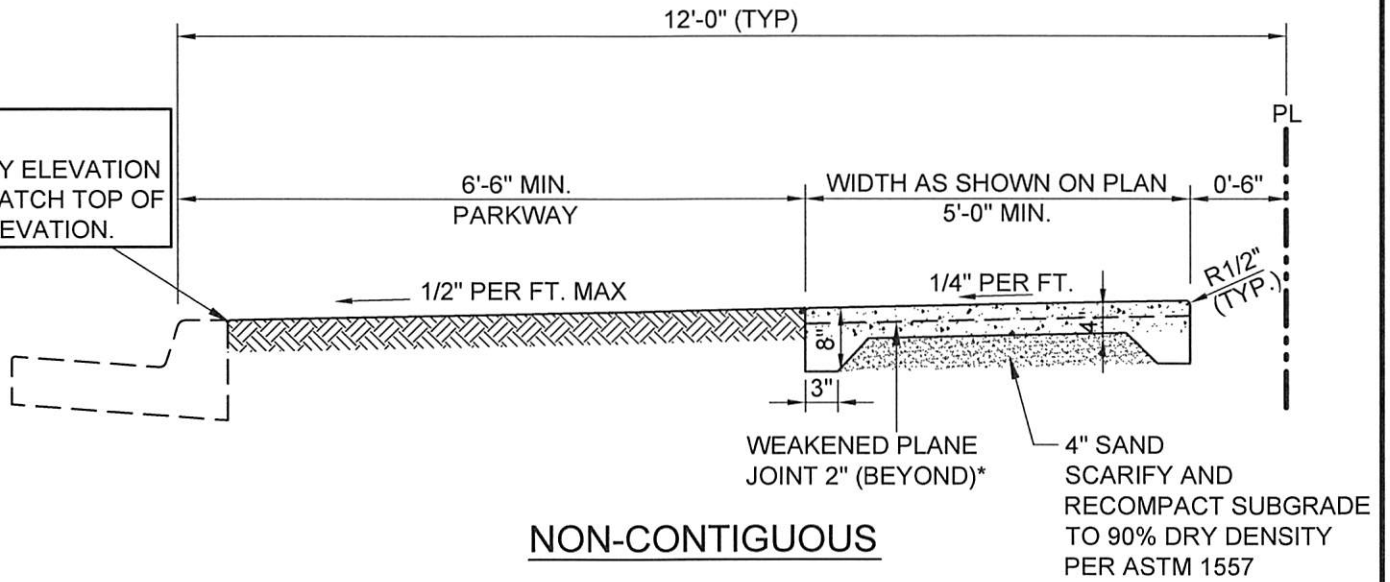


SCALE: N.T.S.

NOTE:
PARKWAY ELEVATION
SHALL MATCH TOP OF
CURB ELEVATION.



NOTES:

1. CONCRETE SHALL BE 4,000 PSI MIN.
2. SEE STANDARD DRAWING EC-401 & EC-402 FOR ADDITIONAL INFORMATION.
3. LIGHT BROOM FINISH SHALL BE USED FOR SIDEWALK.
4. NEW CONCRETE TO BE DOWELED TO EXISTING CONCRETE USING #4 BARS @ 18" O.C.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

R.C.E. 70281 05.29.15 DATE

ABRAHAM CAMPOS, P.E.
SENIOR ENGINEER

R.C.E. 24740 05.29.15 DATE

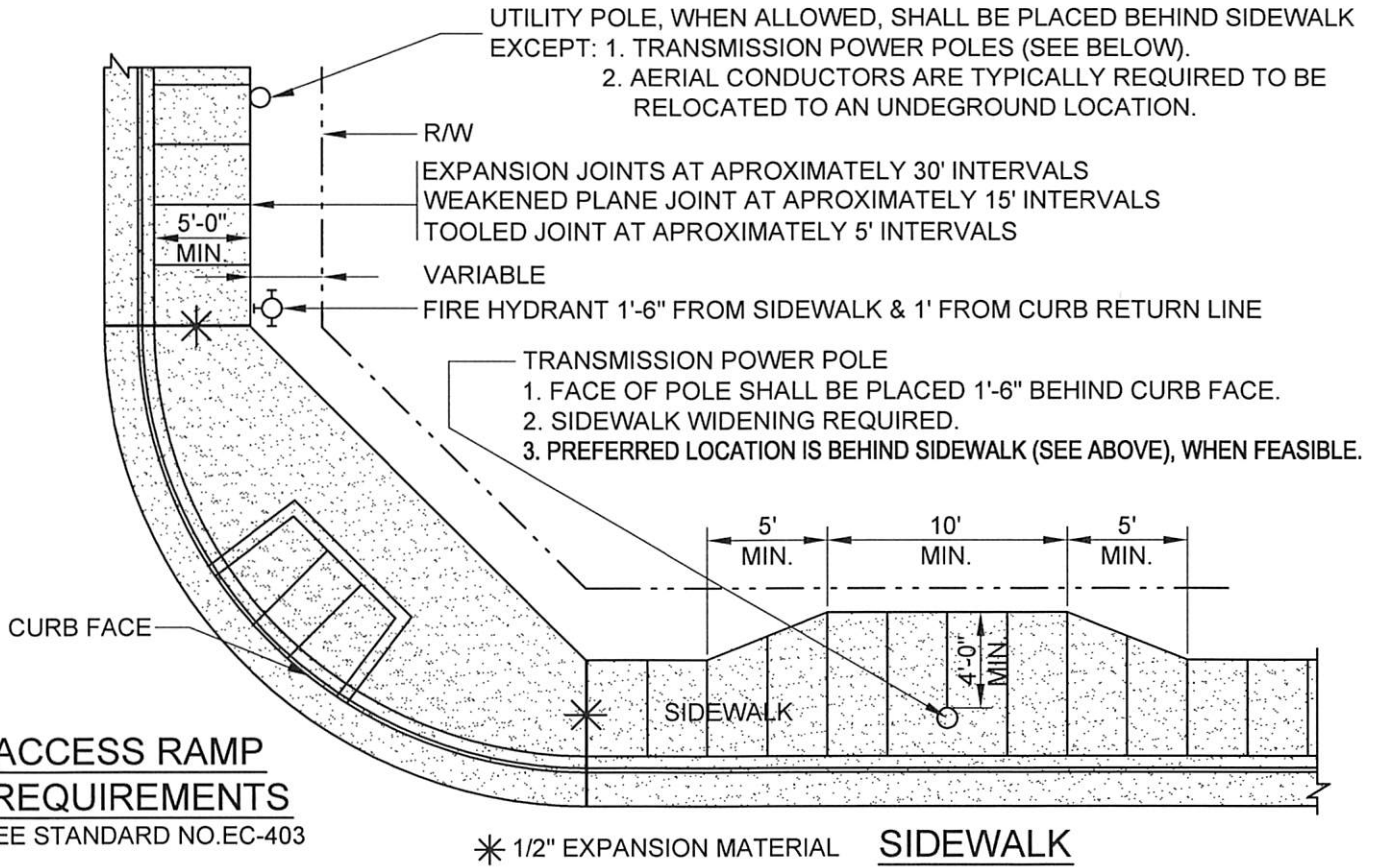
TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

SIDEWALK
(TYPICAL SECTIONS)

DWG NO. **EC-400**

SCALE: N.T.S.



NOTES:

1. VARIABLE DISTANCES TO BE SHOWN ON APPLICABLE TYPICAL ROAD SECTION STANDARD.
2. CONSTRUCTION TO BE OF 4,000 PSI CONCRETE 4" MINIMUM THICKNESS.
3. SEE STANDARD NO. EC-400 FOR FURTHER SIDEWALK REQUIREMENTS.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

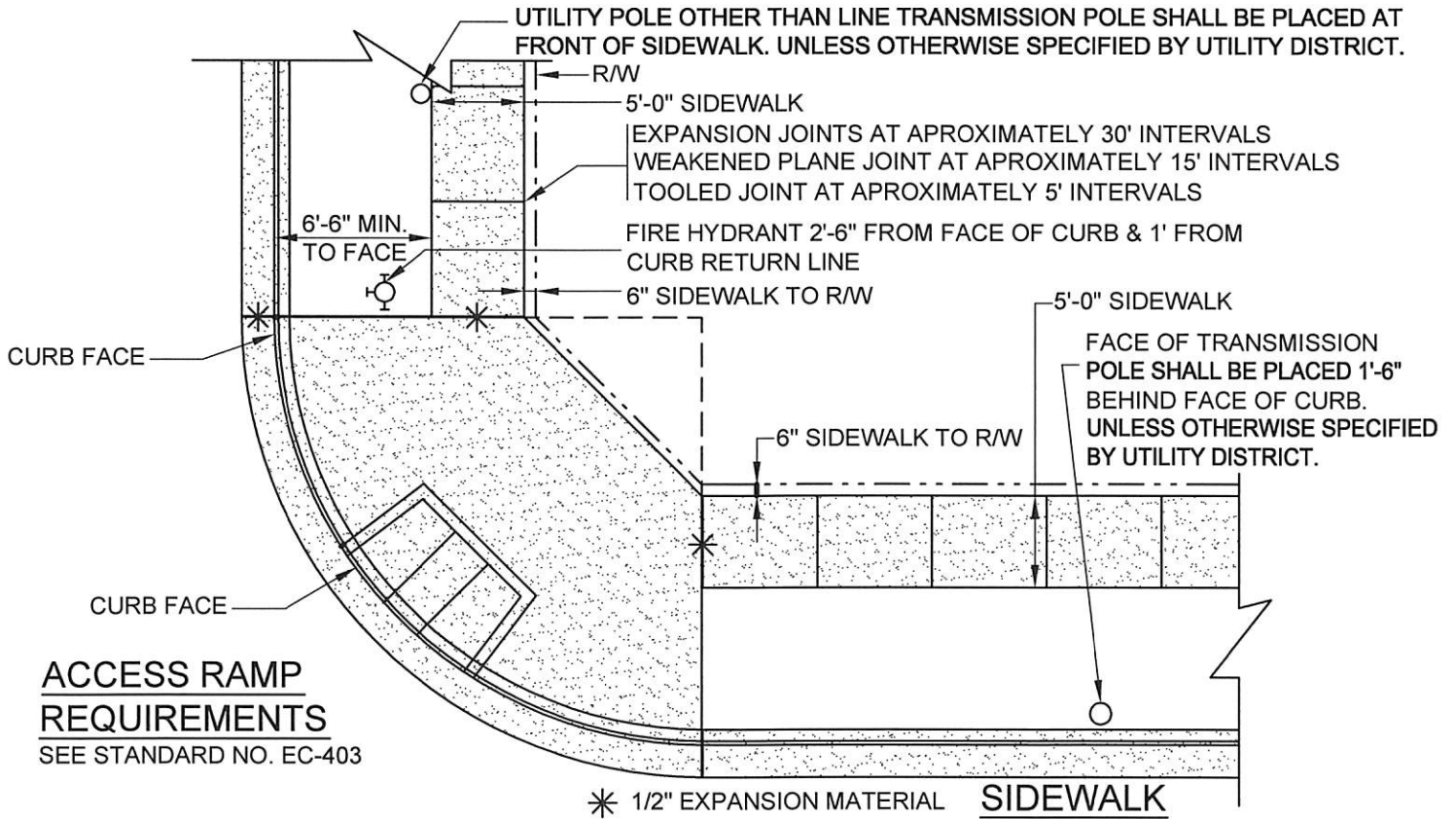
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	R.C.E. 70281	05.29.15
ABRAHAM CAMPOS, P.E. SENIOR ENGINEER		DATE
	R.C.E. 24740	05.29.15
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS		DATE

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

**SIDEWALK, FIRE HYDRANT, &
UTILITY POLE LOCATION
(SIDEWALK AT CURB)**

DWG NO. **EC-401**

SCALE: N.T.S.



NOTES:

1. VARIABLE DISTANCES TO BE SHOWN ON APPLICABLE TYPICAL ROAD SECTION STANDARD.
2. CONSTRUCTION TO BE OF 4,000 PSI CONCRETE 4" MINIMUM THICKNESS.
3. SEE STANDARD NO. EC-400 FOR FURTHER SIDEWALK REQUIREMENTS.



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

R.C.E. 70281 05.29.15
DATE

ABRAHAM CAMPOS, P.E.
SENIOR ENGINEER

R.C.E. 24740 05.29.15
DATE

TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

SIDEWALK, FIRE HYDRANT, & UTILITY POLE LOCATION
(SIDEWALK AT R/W)

DWG NO. **EC-402**

CURB RAMP NOTES

1. Sidewalk and ramp shall be 4 inches P.C.C. and attain 4,000psi compressive strength after 28 day curing. Concrete shall be placed over 6" Class II base. Subgrade shall be scarified and recompactd to 90% max. dry density per ASTM 1557 with optimal moisture.
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 (EC-403-2), the sidewalk may be depressed longitudinally as in case C (EC-403-7), or may be widened as in Case D (EC-403-11).
3. When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B of the CALTRANS 2010 Revised Std. Plan RSP A88A & A88B .
4. Prior to construction, the contractor shall determine and locate the existing right of way at curb ramps, see note 2 above. Modifications to the ramps shown is at the discretion of the City Engineer.
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.
7. The curb ramp shall be outlined, as shown, with a 12" wide border with 1/4 " grooves approximately 3/4 " on center. See grooving detail EC-403-1.
8. Transitions from ramps 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 and continuous passage to the curb ramp shall not exceed 5 percent within 4'-0" of the top or bottom of the curb ramp.
10. Curb ramps shall have a detectable safety yellow warning surface that extends the full width and 3'-0" depth of the ramp. Detectable Warning Surfaces shall conform to the details shown in EC-403-1 and the requirements in the Caltrans Special Provisions. Detectable warning surface shall be cast in place Polymer Composite/Fiberglass Rigid Panels. Surface applied systems are to be used only at retrofit conditions and with the approval of the City Engineer.
11. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
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 contractor prior to, or in conjunction with, curb ramp construction. Approval for relocation shall be obtained from the City Engineer.
13. For retrofit conditions, sawcut existing curb, gutter & sidewalk per EC-220. Also, existing corner monuments shall be tied and filed at the County of Imperial and re-placed by a licensed land surveyor.
14. Concrete curb ramp and adjoining curb gutter shall be placed monolithic.
15. All details used and/or modified per CALTRANS 2010 Revised Std. Plan RSP A88A
16. Reference CALTRANS 2010 Revised Std. Plan RSP A88A & A88B for other conditions. More stringent condition shall apply; City Engineer has ultimate discretion.
17. New concrete shall be doweled into existing concrete using #4 bars @ 18" O.C.
18. All ramps will have a 1'-0" wide asphalt patch with full depth HMA to match existing structural depth.



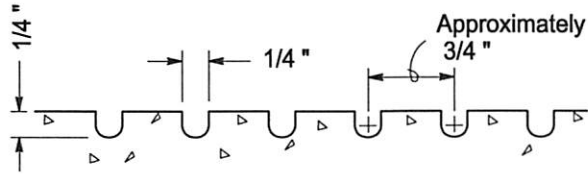
REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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	R.C.E. 70281	05.29.15
ABRAHAM CAMPOS, P.E. SENIOR ENGINEER		DATE
	R.C.E. 24740	05.29.15
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS		DATE

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

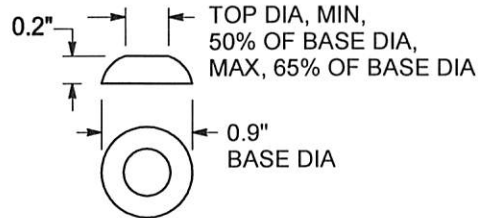
CURB RAMP
NOTES

DWG NO. **EC-403-0**

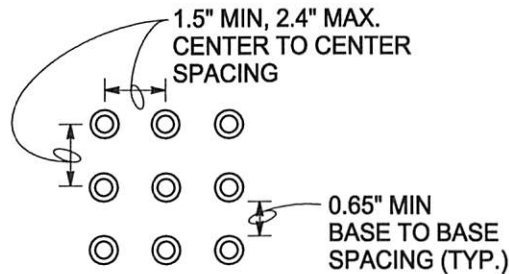


GROOVING DETAIL

See Curb ramp Note 4 (EC-403-0)



RAISED TRUNCATED DOME



**RAISED TRUNCATED DOME
PATTERN (IN-LINE)**

**DETECTABLE
WARNING SURFACE**

See Curb Ramp Note 10 (EC-403-0)

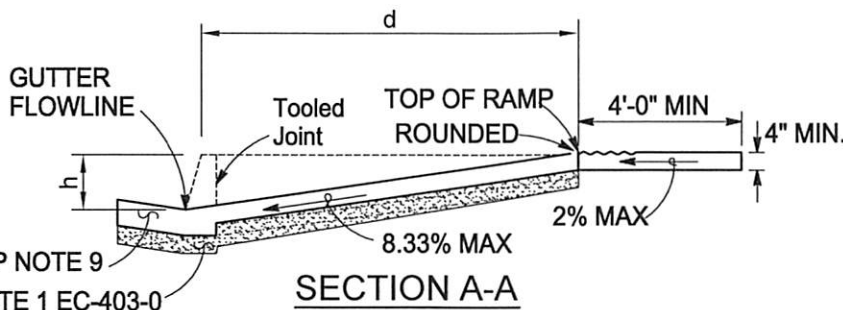
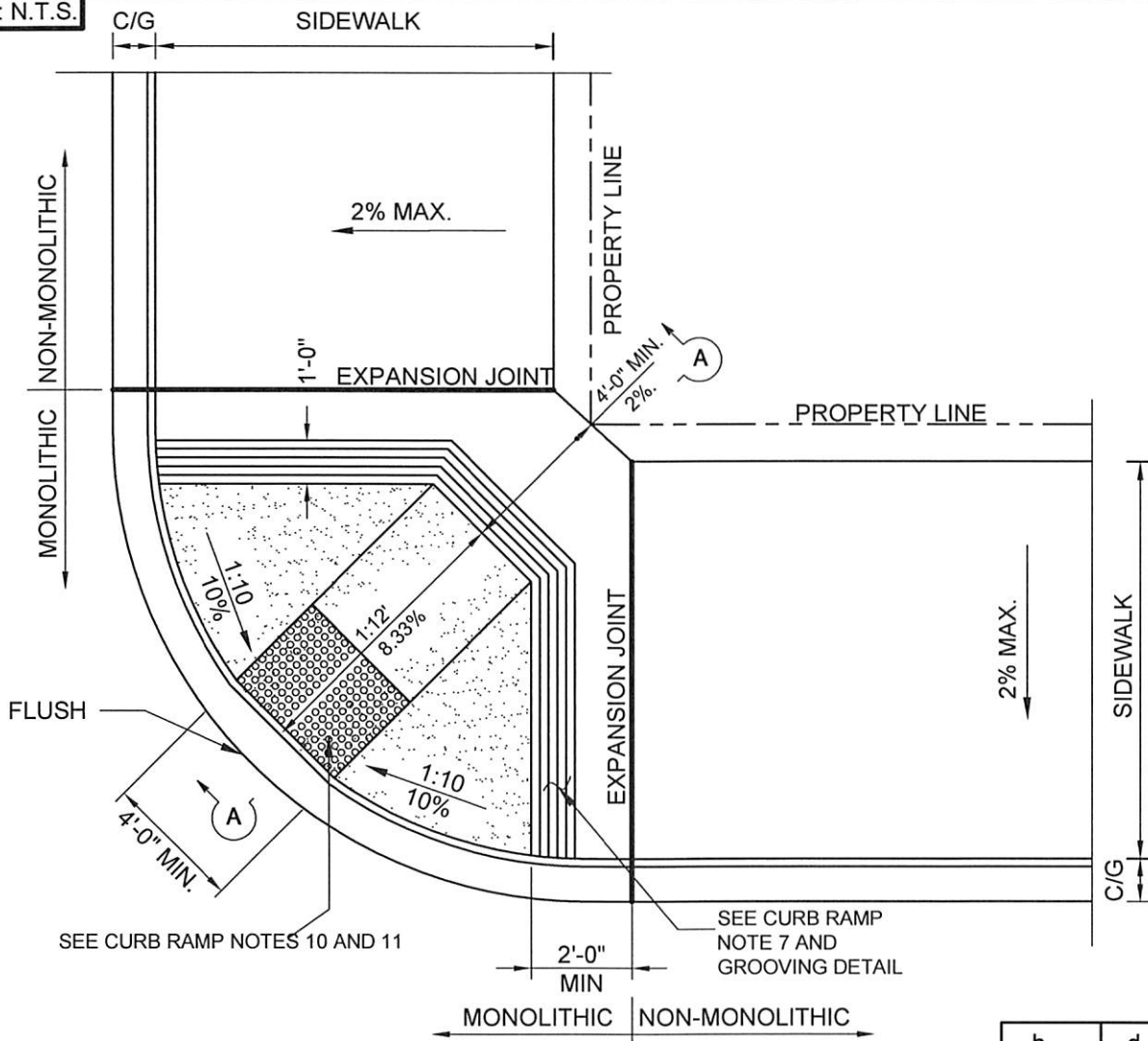


REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION		
ABRAHAM CAMROS, P.E. SENIOR ENGINEER	R.C.E. 70281	05.29.15 DATE
TERRY L. HAGEN, P.E. DIRECTOR OF PUBLIC WORKS	R.C.E. 24740	05.29.15 DATE

CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT	
<u>CURB RAMP</u> DETECTABLE WARNING SURFACE AND GROOVING DETAILS	
DWG NO.	EC-403-1

SCALE: N.T.S.



h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

Contractor shall verify right of way limits prior to start of work.

NOTE
See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./J.G.M.	07/02/07
REV. 1	AC/JF	J.F./J.G.M.	05/29/15

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PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

ABRAHAM CAMPOS, P.E.
SENIOR ENGINEER
R.C.E. 70281 05.29.15
DATE

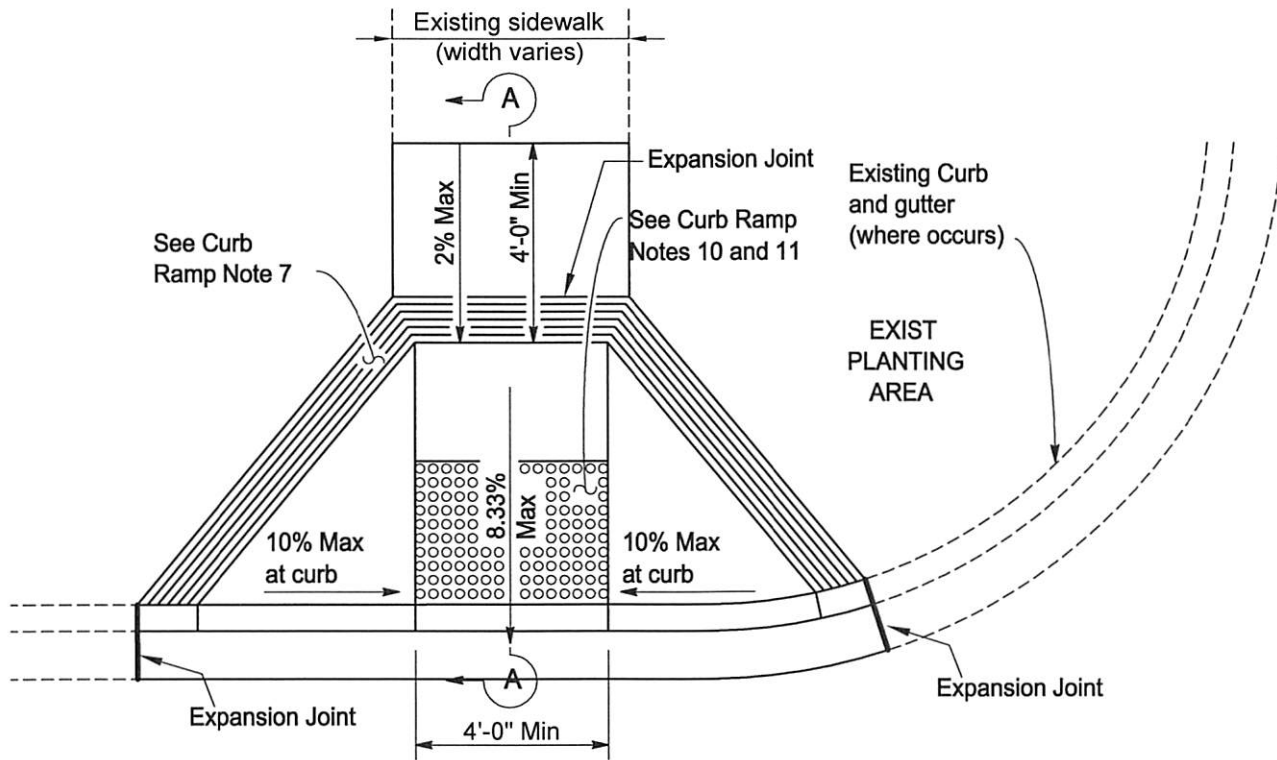
TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS
R.C.E. 24740 05.29.15
DATE

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

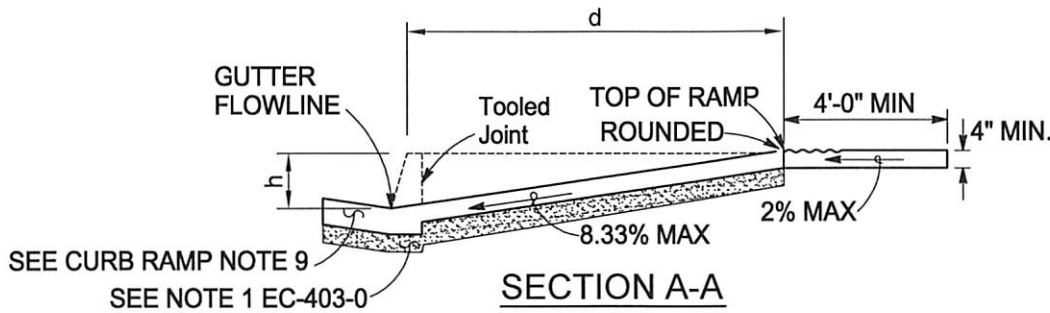
CURB RAMP
CASE A.1 (modified)

DWG NO. **EC-403-2**

SCALE: N.T.S.



CASE A



h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

Contractor shall verify right of way limits prior to start of work.

NOTE
See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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ABRAHAM CAMPOS, P.E.
SENIOR ENGINEER
R.C.E. 70281 05.29.15 DATE

TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS
R.C.E. 24740 05.29.15 DATE

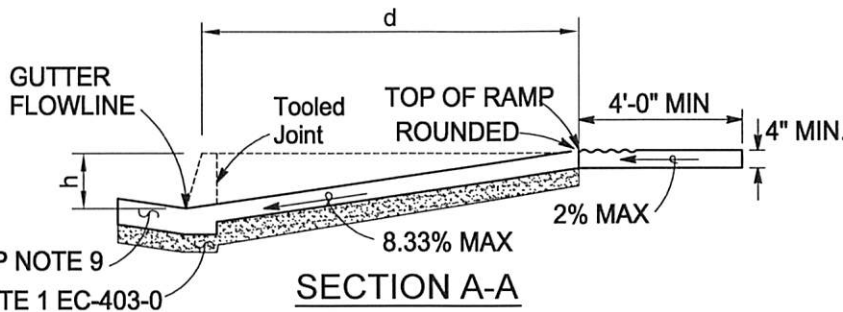
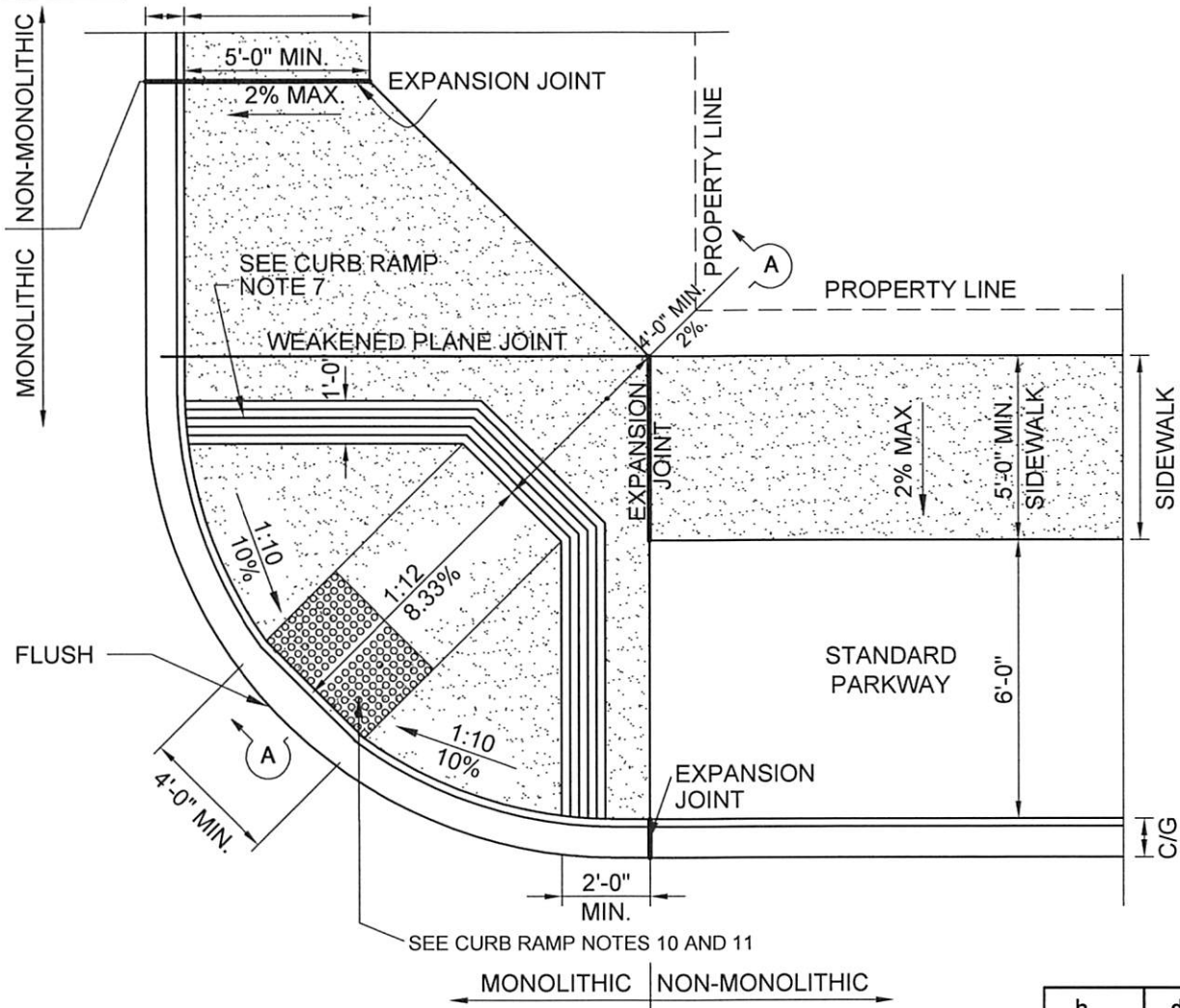
CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE A.2 (modified)

DWG NO. **EC-403-3**

SCALE: N.T.S.

C/G SIDEWALK



SEE CURB RAMP NOTE 9
SEE NOTE 1 EC-403-0

h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

Contractor shall verify right of way limits prior to start of work.

NOTE

See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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SENIOR ENGINEER
R.C.E. 70281 05.29.15 DATE

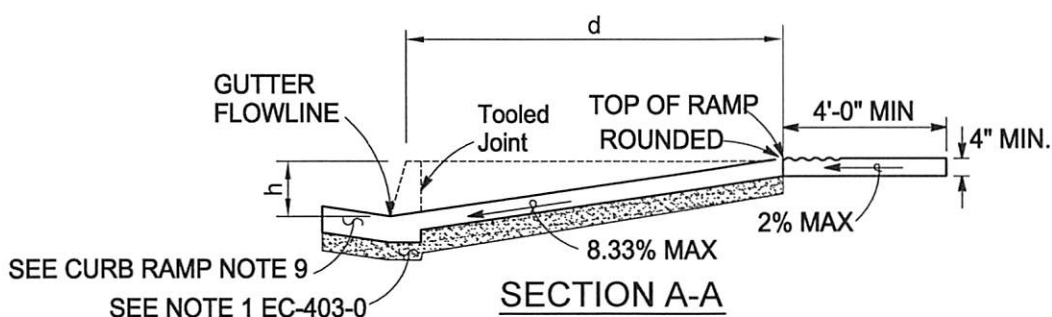
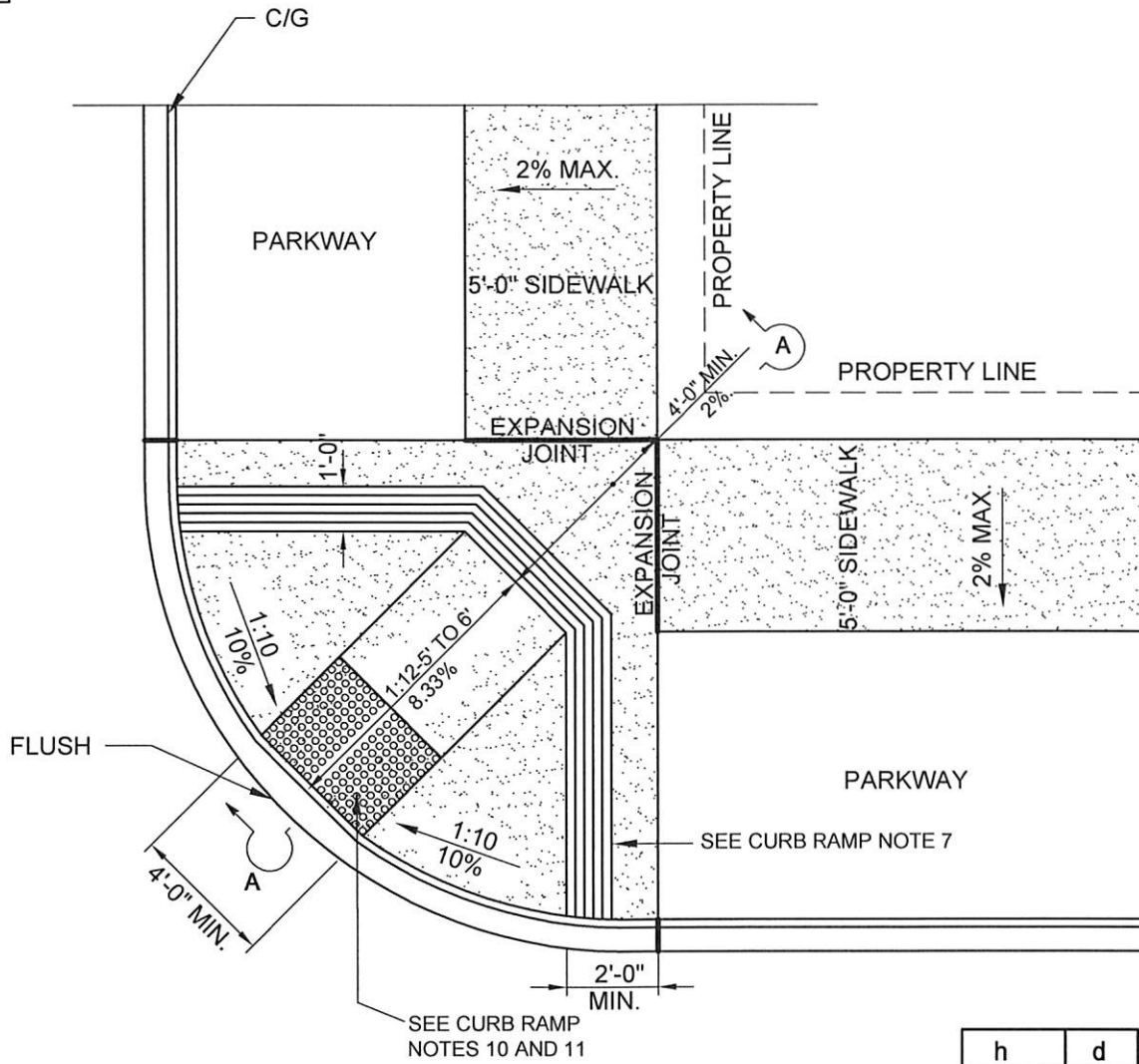
TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS
R.C.E. 24740 05.29.15 DATE

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE A.3 (modified)

DWG NO. **EC-403-4**

SCALE: N.T.S.



h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

Contractor shall verify right of way limits prior to start of work.

NOTE
See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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ABRAHAM CAMPOS, P.E.
SENIOR ENGINEER

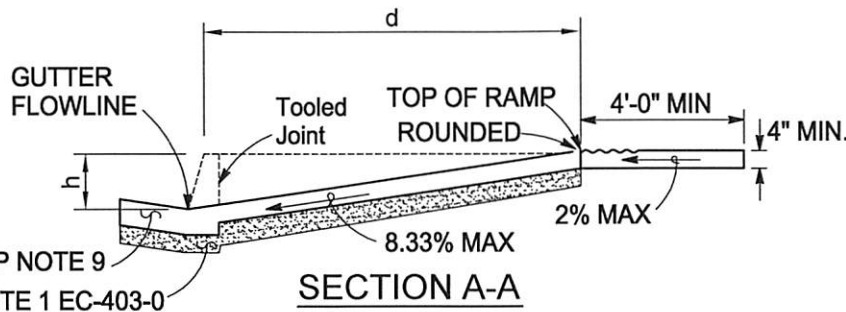
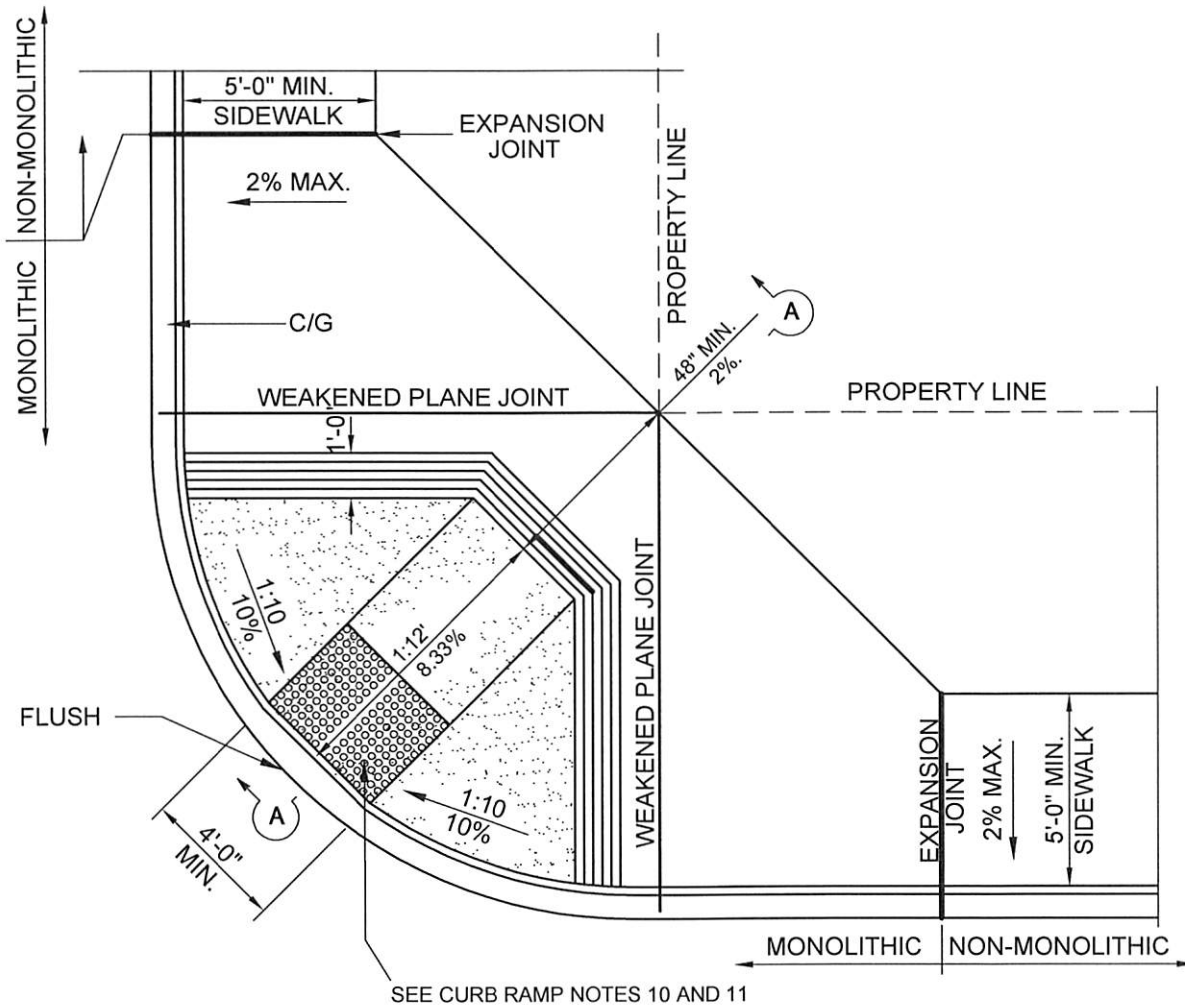
R.C.E. 24740 05.29.15
TERRY L. HAGEN, P.E.
DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE A.4 (modified)

DWG NO. **EC-403-5**

SCALE: N.T.S.



h	d
4"	5'-6"
4 1/2"	5'-6"
5"	5'-6"
5 1/2"	5'-6"
6"	6'-0"
6 1/2"	6'-6"
7"	7'-0"
7 1/2"	7'-0"
8"	8'-0"

Contractor shall verify right of way limits prior to start of work.

NOTE
See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./J.G.M.	07/02/07
REV. 1	AC/JF	J.F./J.G.M.	05/29/15

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SENIOR ENGINEER

R.C.E. 24740 05.29.15
DATE

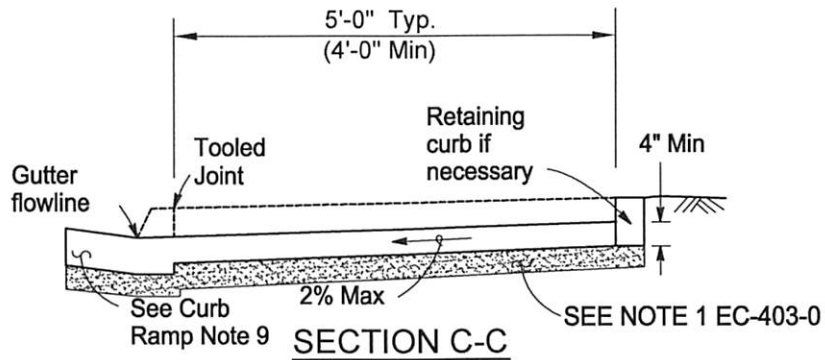
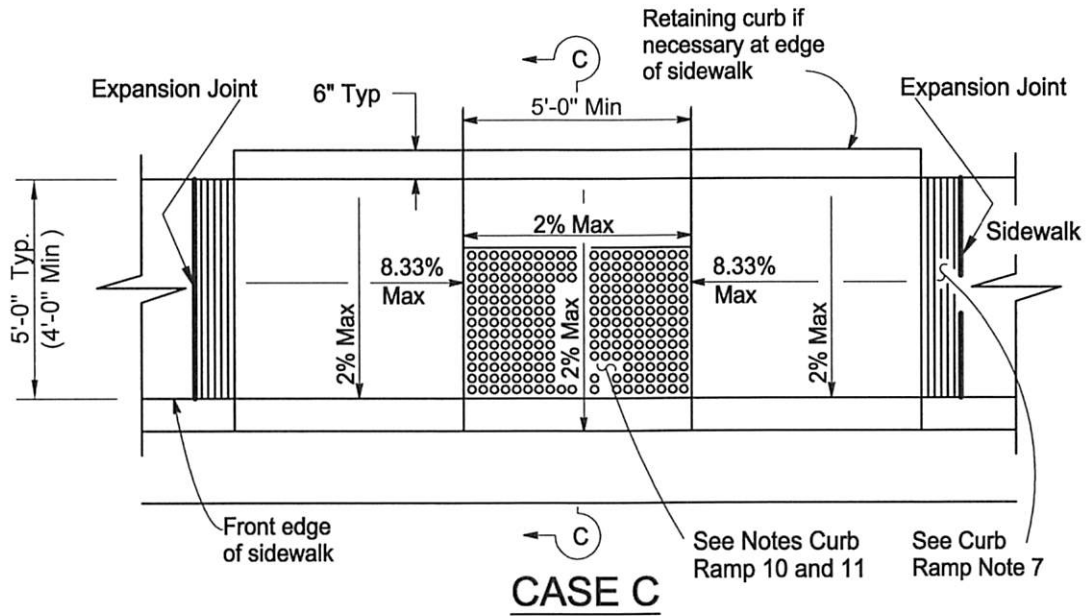
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PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE A.5 (modified)

DWG NO. **EC-403-6**

SCALE: N.T.S.



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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DATE	

ABRAHAM CAMPOS, P.E.
 SENIOR ENGINEER

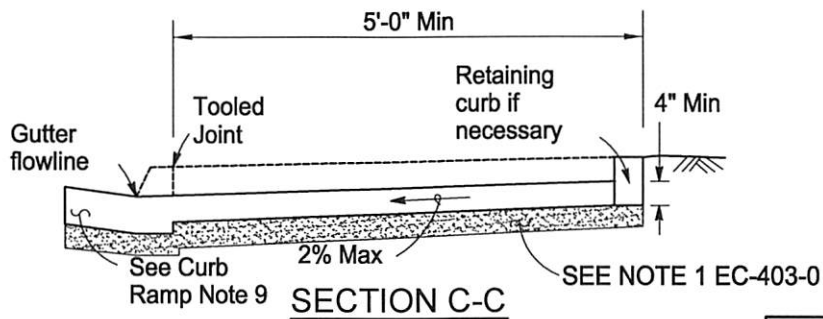
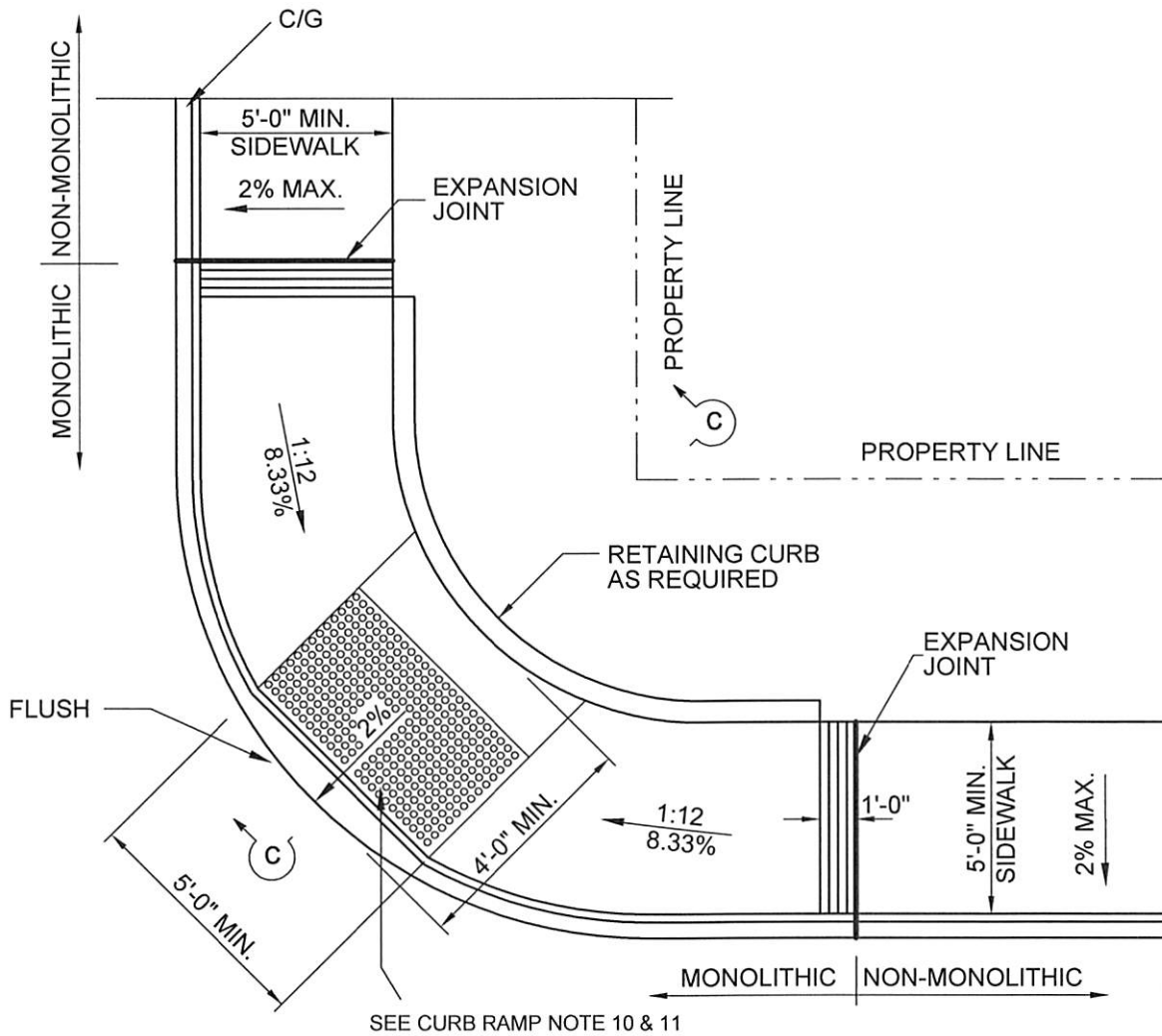
TERRY L. HAGEN, P.E.
 DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
 PUBLIC WORKS DEPARTMENT

MID BLOCK CURB RAMP
CASE C

DWG NO. **EC-403-7**

SCALE: N.T.S.



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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 SENIOR ENGINEER

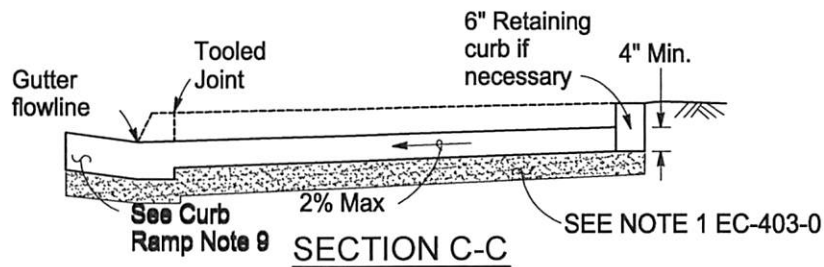
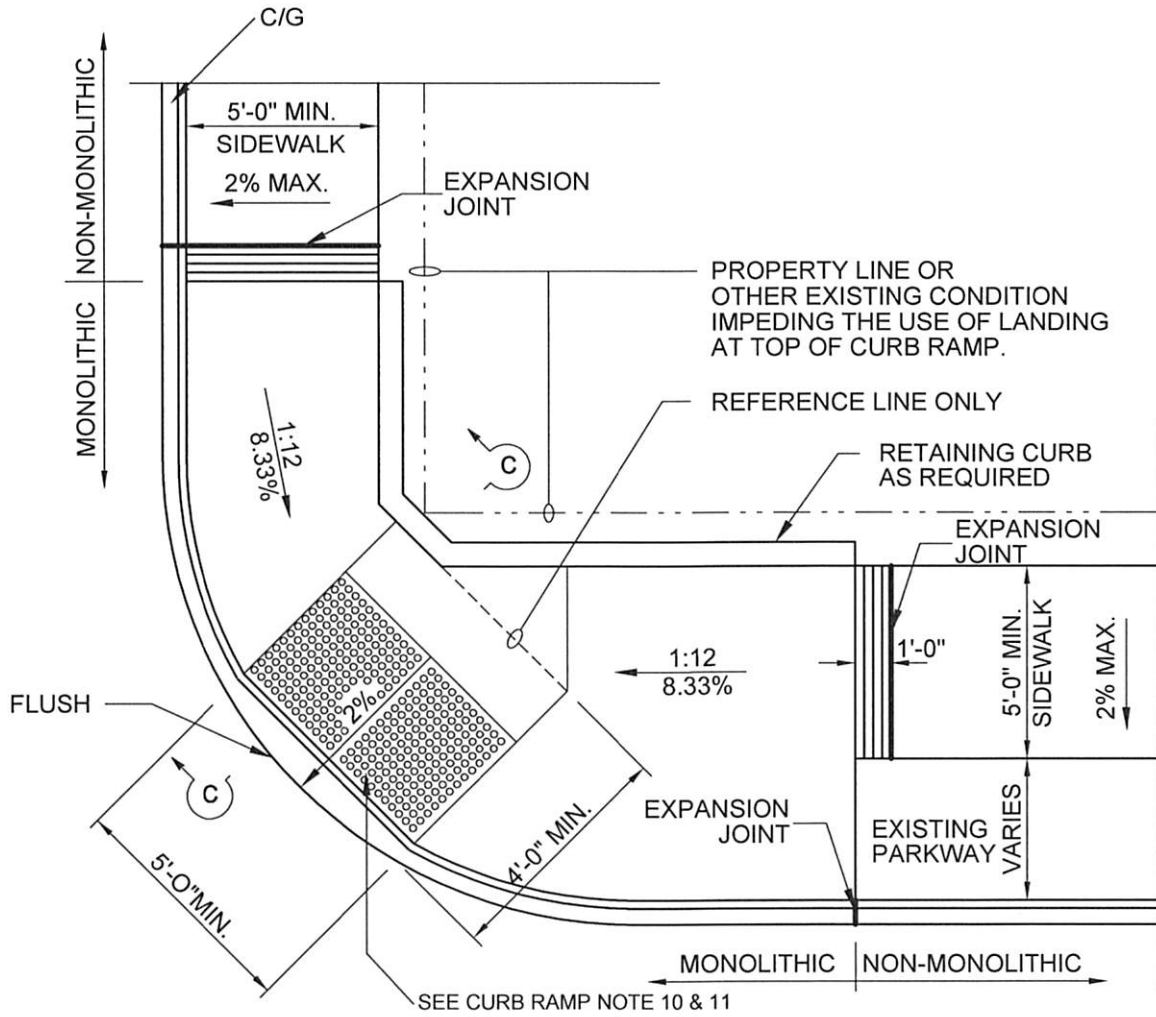
R.C.E. 24740 05.29.15
 TERRY L. HAGEN, P.E.
 DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
 PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE C.1 (modified)

DWG NO. **EC-403-8**

SCALE: N.T.S.



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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R.C.E. 70281 05.29.15 DATE

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R.C.E. 24740 05.29.15 DATE

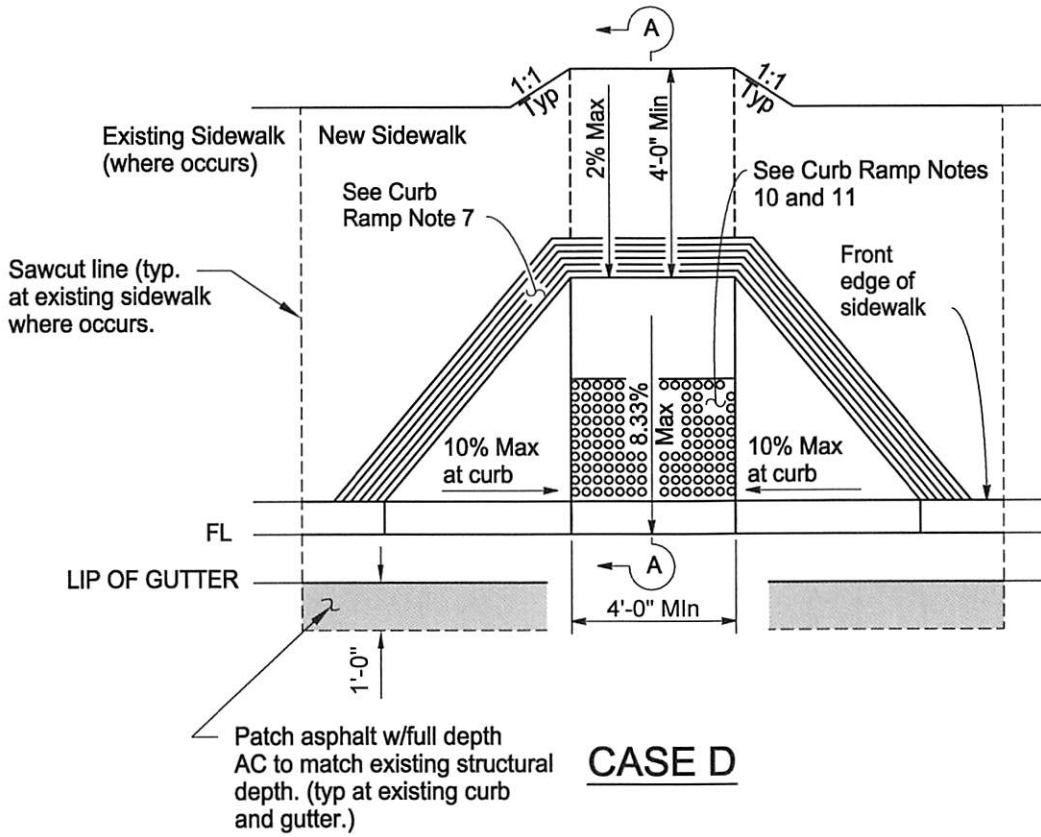
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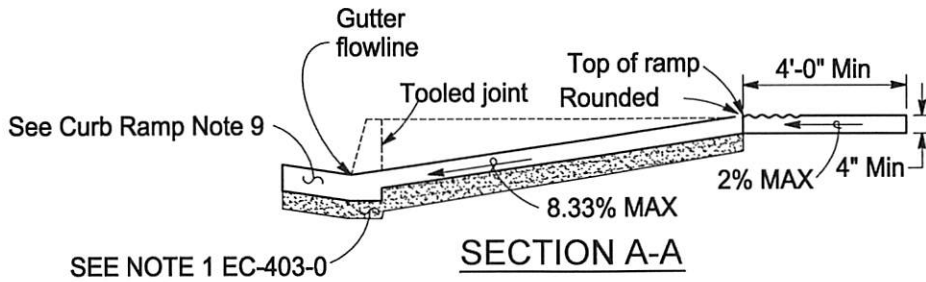
CURB RAMP
CASE C.2 (modified for use at Existing Alterations only)

DWG NO. **EC-403-9**

SCALE: N.T.S.



CASE D



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for additional information



REVISION	DESIGN	DRAWN	DATE
ORIGINAL	AC/JAG	A.C./G.M.	07/02/07
REV. 1	AC/JF	J.F./G.M.	05/29/15

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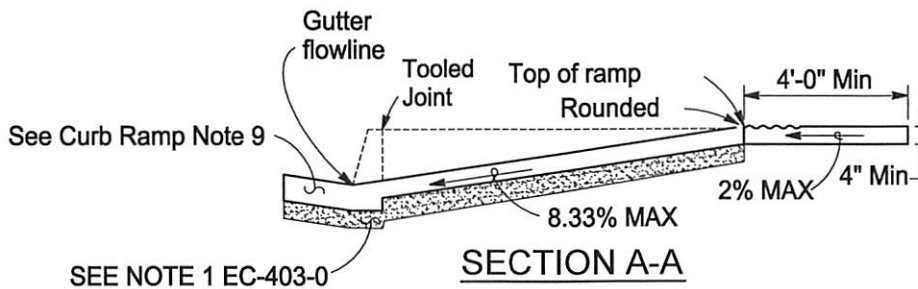
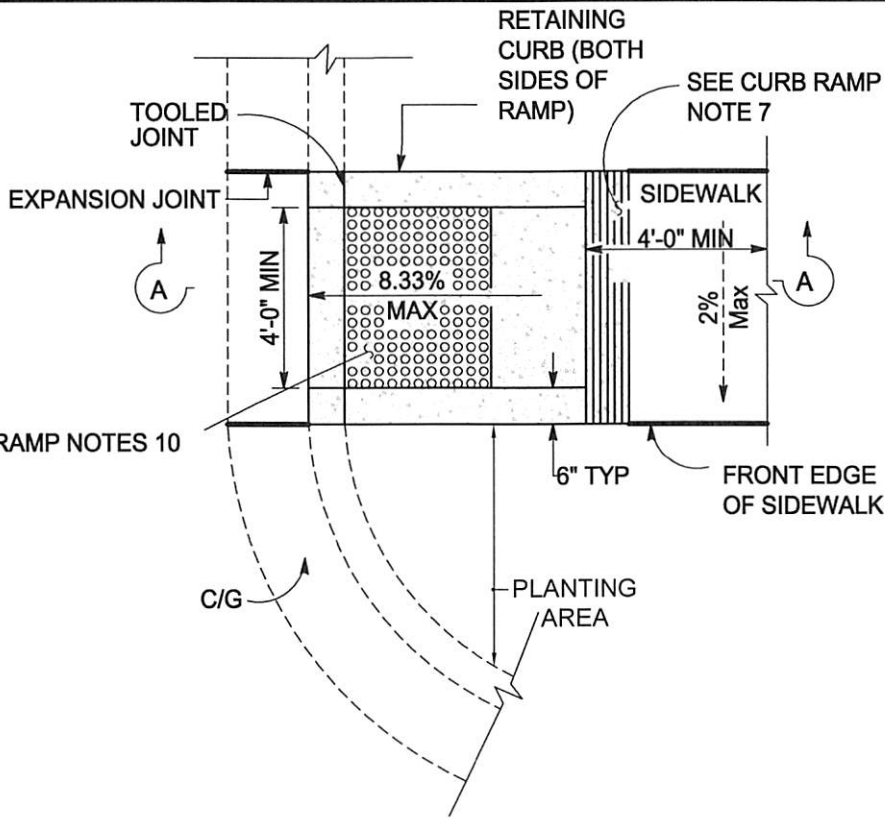
R.C.E. 24740 05.29.15
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 PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE D

DWG NO. **EC-403-10**



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for balance of info.



REVISION	DESIGN	DRAWN	DATE
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REV. 1	AC/JF	J.F./G.M.	05/29/15

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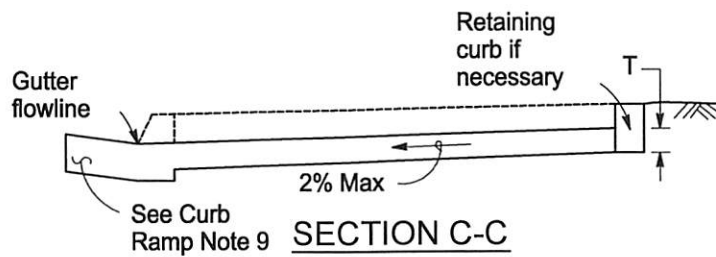
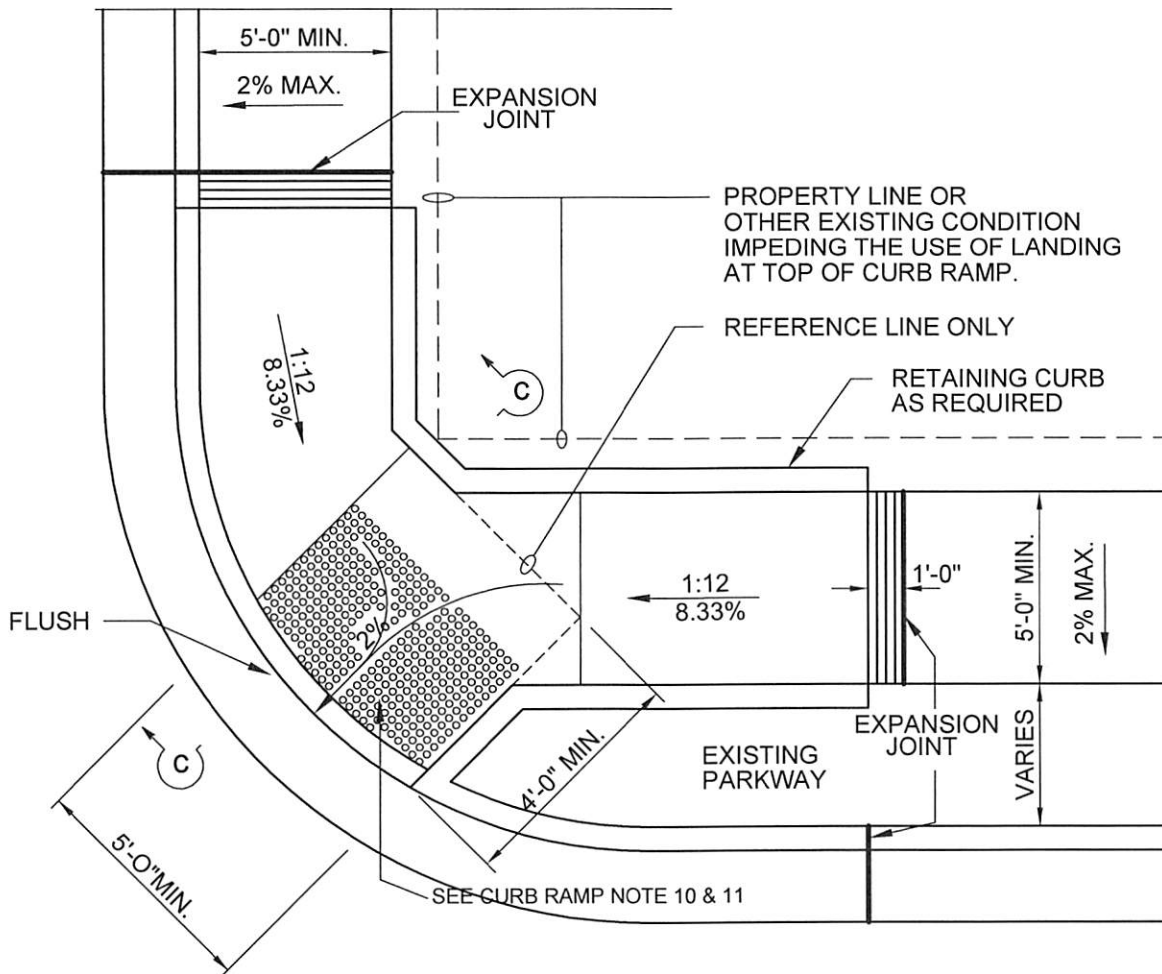
ABRAHAM CAMPOS, P.E.
 SENIOR ENGINEER
 R.C.E. 70281 05.29.15
 DATE

TERRY L. HAGEN, P.E.
 DIRECTOR OF PUBLIC WORKS
 R.C.E. 24740 05.29.15
 DATE

CITY OF EL CENTRO
 PUBLIC WORKS DEPARTMENT

RAMP

DWG NO. **EC-403-11**



NOTE
 See Curb Ramp Notes & Grooving/Detectable Warning Surface detail EC-403-0 & EC-403-1 for balance of info.



REVISION	DESIGN	DRAWN	DATE
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REV. 1	AC/JF	J.F./G.M.	05/29/15

APPROVED BY THE CITY OF EL CENTRO
 PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION

R.C.E. 70281 05.29.15
 DATE

ABRAHAM CAMROS, P.E.
 SENIOR ENGINEER

R.C.E. 24740 05.29.15
 DATE

TERRY L. HAGEN, P.E.
 DIRECTOR OF PUBLIC WORKS

CITY OF EL CENTRO
 PUBLIC WORKS DEPARTMENT

CURB RAMP
CASE C.3 (modified for use at Existing Alterations only)

DWG NO. **EC-403-10**