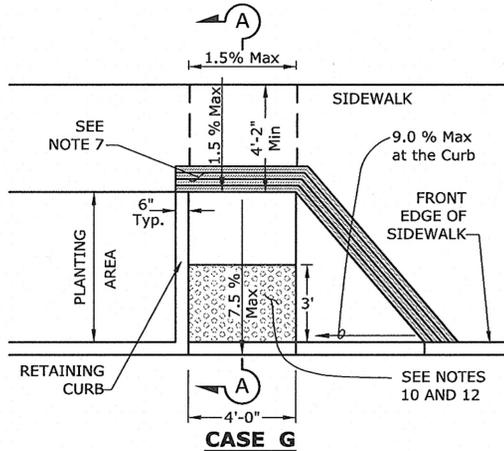
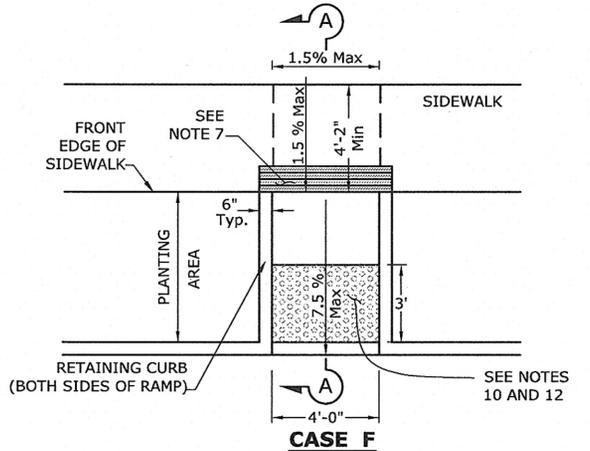
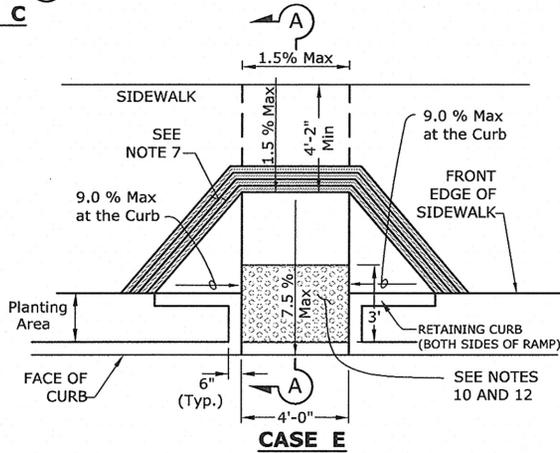
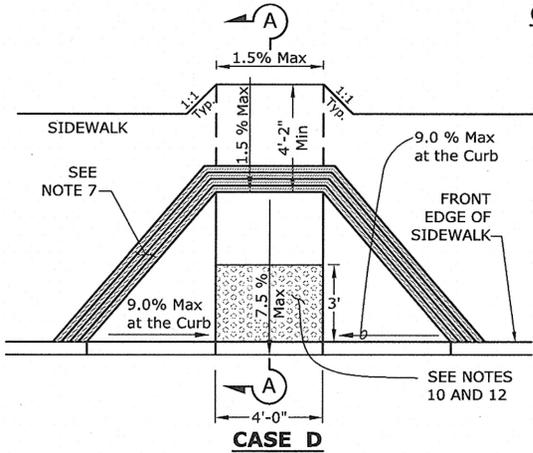
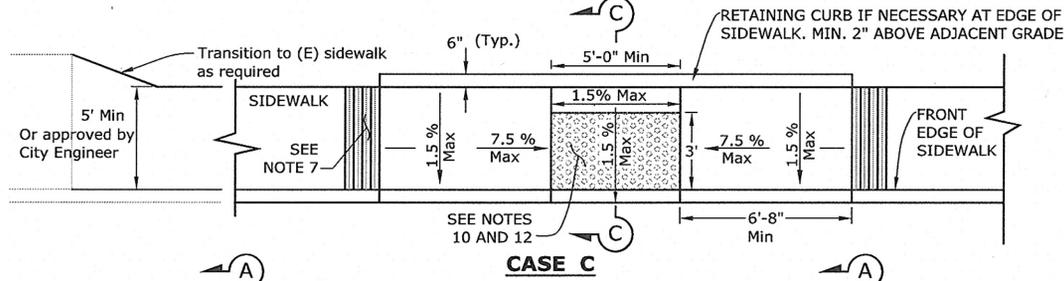
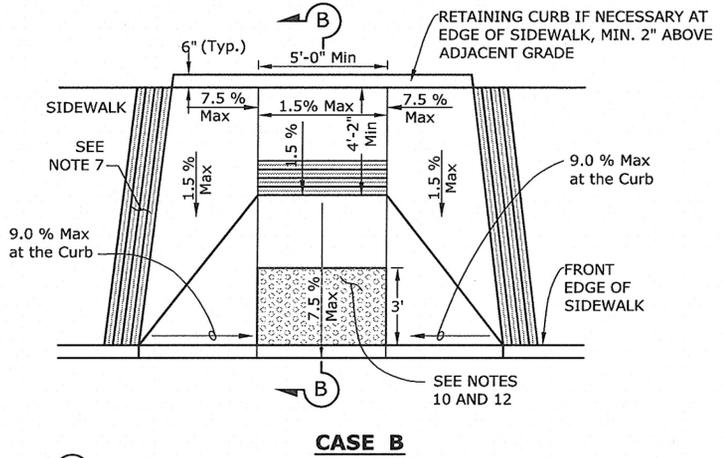
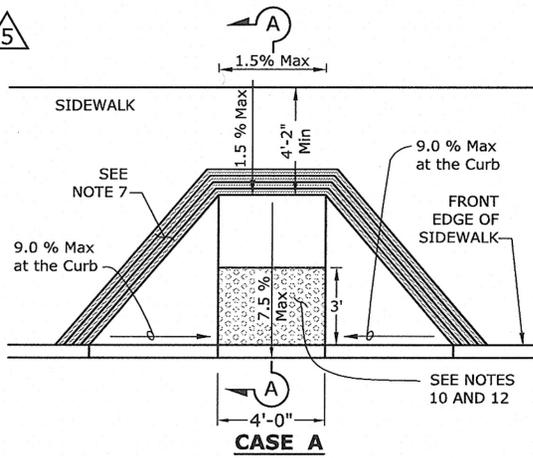


5



SHEET NOTES:

1. Saw cut to remove (E) concrete, pour (N) Sidewalk if necessary. Typical for all conforms.
2. Field verify work limits on each site. (Limit varies)

LEGEND:

- (N) New
- (E) Existing

CITY OF MILPITAS, ENGINEERING DIVISION

STANDARD DRAWING

No. 419

CURB RAMP DETAILS

DATE : 04/25/14

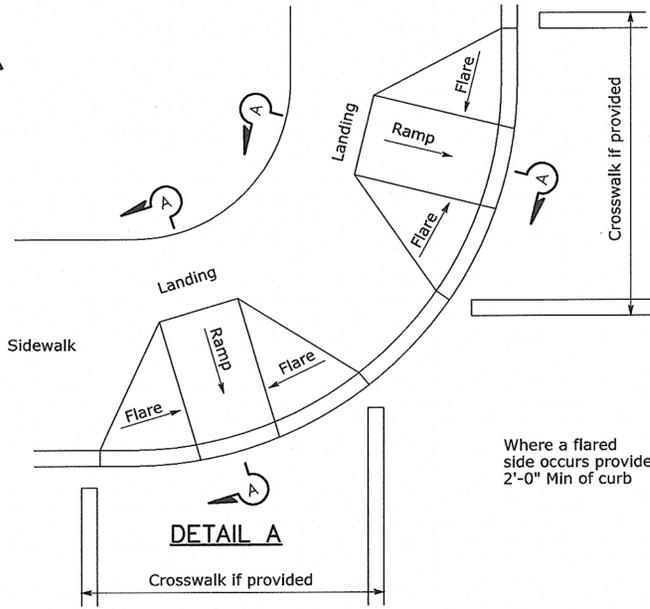
REVISION	DATE
1	1997
2	2001
3	2010
4	2011
5	2014

APPROVED BY: JEFF MONEDA

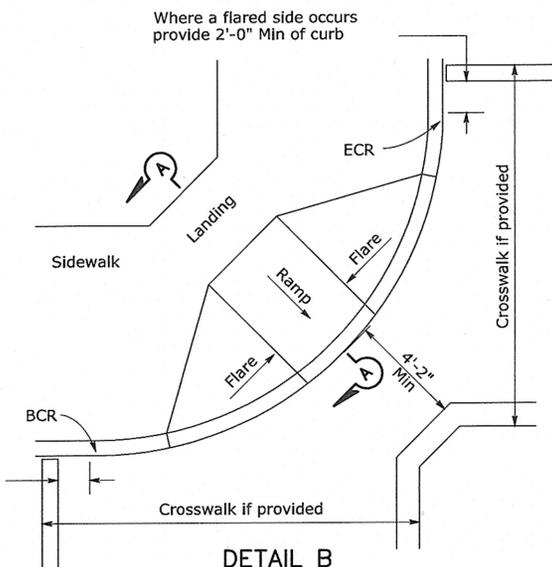
PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. C-60944

SHEET 1 OF 3

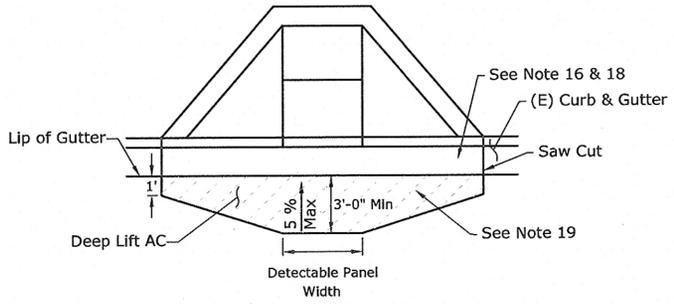
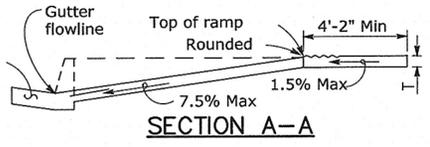
5



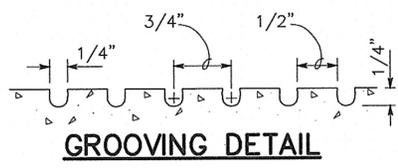
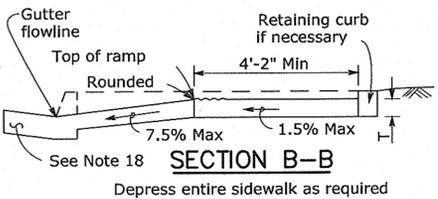
TYPICAL TWO-RAMP CORNER INSTALLATION
See Note 1



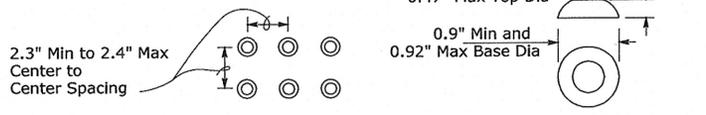
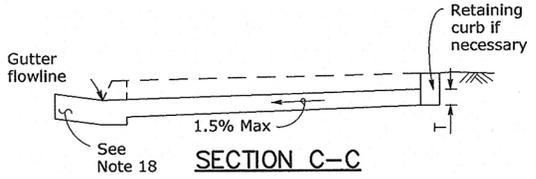
TYPICAL ONE-RAMP CORNER INSTALLATION
See Notes 1 and 3



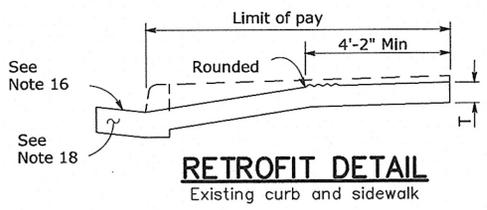
RETROFIT AC CONFORM DETAIL



GROOVING DETAIL



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



RETROFIT DETAIL
Existing curb and sidewalk

NOT TO SCALE

CITY OF MILPITAS, ENGINEERING DIVISION

STANDARD DRAWING
No. 419

REVISION	DATE
1	1997
2	2001
3	2010
4	2011
5	2014

CURB RAMP DETAILS

APPROVED BY: JEFF MONEDA
PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. C-60944

DATE : 04/25/14

SHEET 2 OF 3

5 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'-0" for Case A and D and 5'-0" for Case B and C.
6. Side slope of ramp flares vary uniformly from a maximum of 9% 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 $\frac{1}{4}$ " grooves approximately $\frac{3}{4}$ " 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. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp or accessible route shall not exceed 5 percent within 4'-2" 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 Standard Specifications. Additionally, truncated dome shall be "Armorcast Product Company", or approved equal, color to be "black" to contrast with sidewalk concrete and yellow for designated school route crossings, subject to the review and approval of the City Engineer. The Detectable Warning Panel shall be installed by wet set installation method, with the largest panel size available by the approved manufacturer.
11. Glue-on or bolt down Detectable Warning Panels installation method shall not be used.
12. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
13. Sidewalk and ramp thickness, "T", shall be $\frac{3}{2}$ " minimum.
14. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp shall be relocated or adjusted to grade by the contractor or by the third party utility owner at contractor's expense, prior to, or in conjunction with, curb ramp construction.
15. Utility facilities shall not be located in detectable warning surfaces.
16. For retrofit curb ramp installation conditions, curb and gutter shall be replaced at minimum from outside of grooved area to outside of grooved area or as directed by the City Engineer.
17. The surface of curb ramps and its flared sides shall be of contrasting finish from that of adjacent sidewalk.
18. 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 (5.0%). Gutter pan slope shall not exceed 0.67" of depth for each 16" of width.
19. For installation of curb ramps within existing roadways, the road pavement shall be removed and replaced per City Std. Detail 222 to conform to the requirements of Note 18, see retrofit detail on sheet 2 of 3.

CITY OF MILPITAS, ENGINEERING DIVISION

STANDARD DRAWING

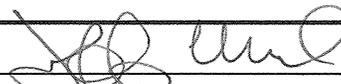
No. 419

REVISION	DATE
1	1997
2	2001
3	2010
4	2011
5	2014

CURB RAMP DETAILS

DATE : 04/25/14

APPROVED BY: JEFF MONEDA



PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. C-60944

SHEET 3 OF 3