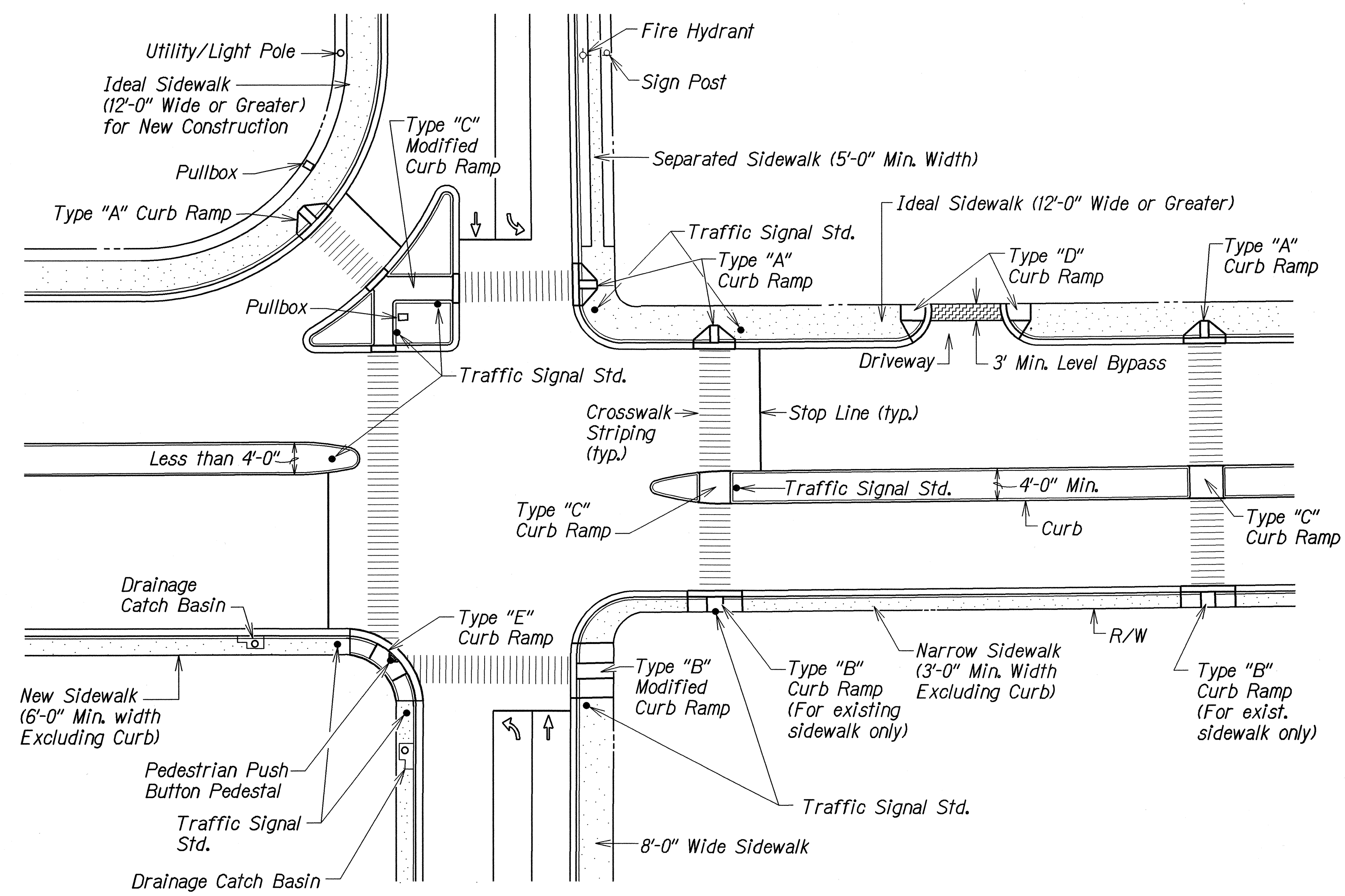
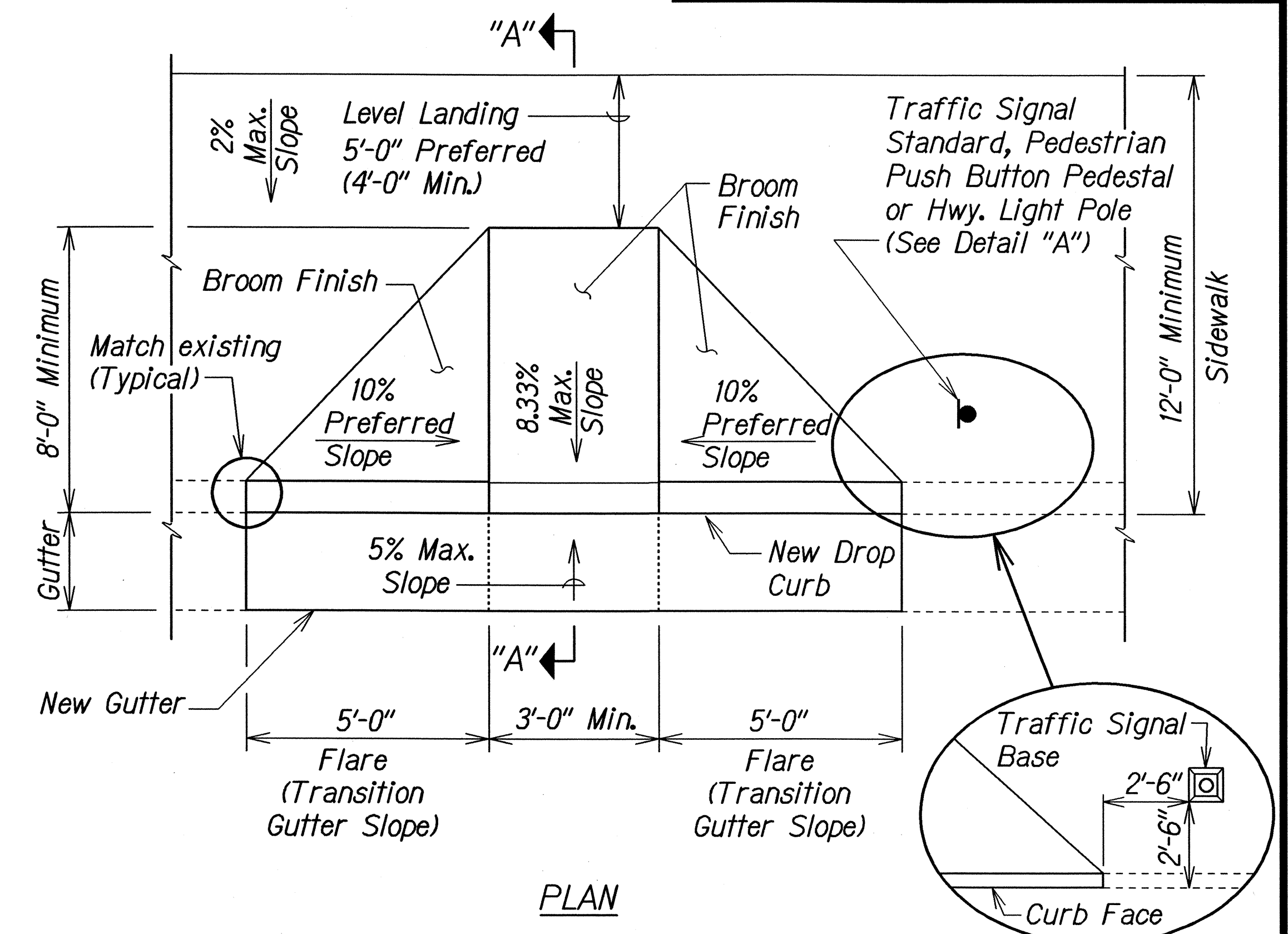


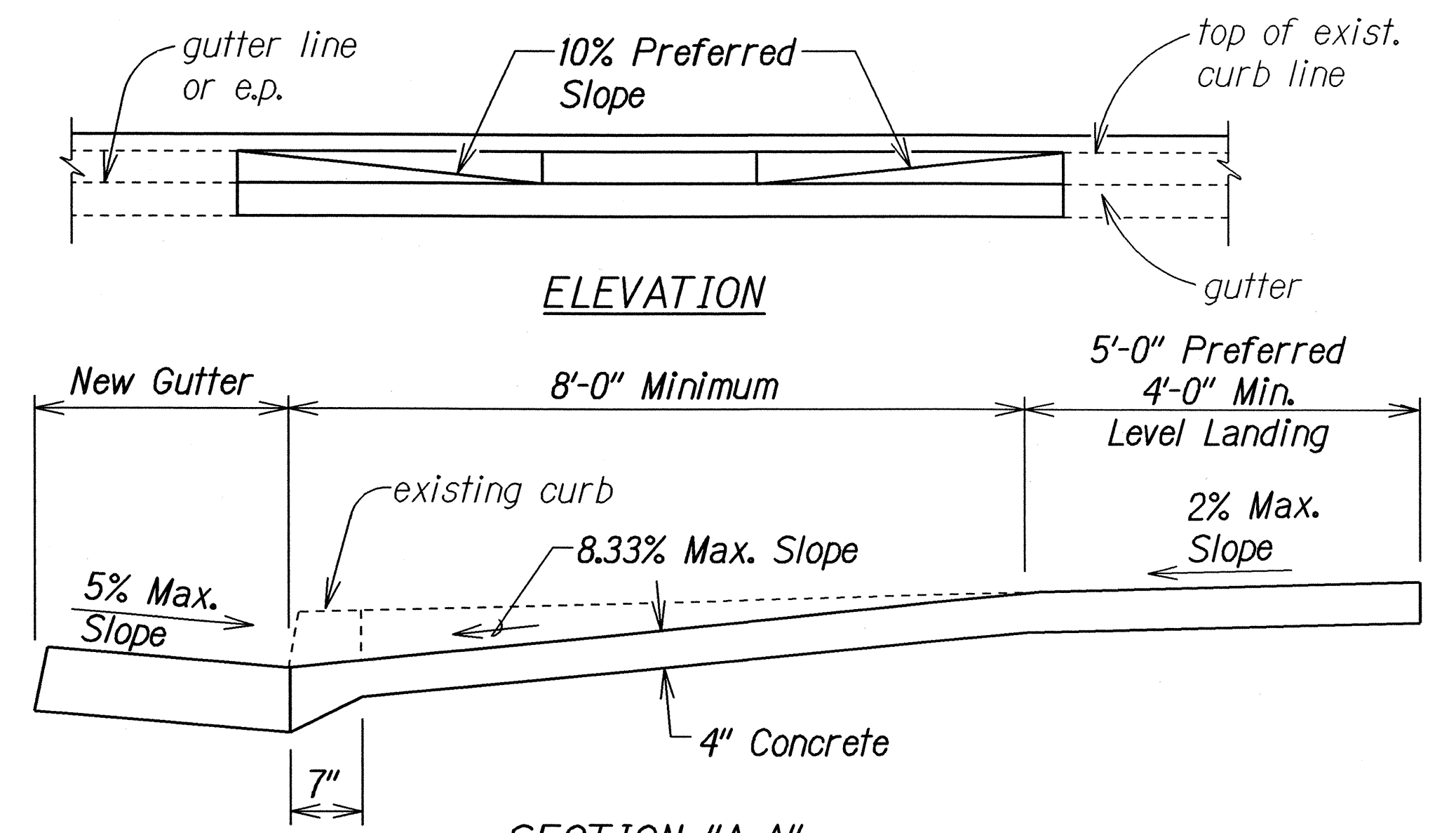
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	24	106



TYPICAL CURB RAMPS



PLAN



SECTION "A-A"

CURB RAMP - TYPE "A"
SIDEWALK WIDTH 12'-0" OR GREATER

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAILS
AIEA ACCESS ROAD RESURFACING
MOANALUA ROAD
TO KAMEHAMEHA HIGHWAY
Project No. HWY-0-01-05M

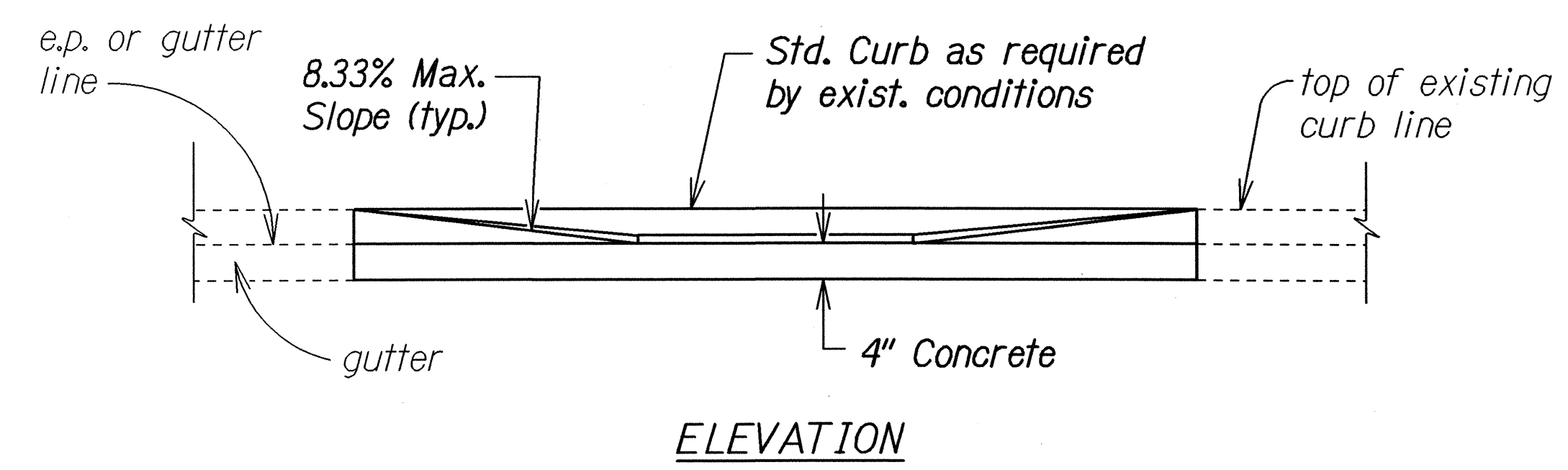
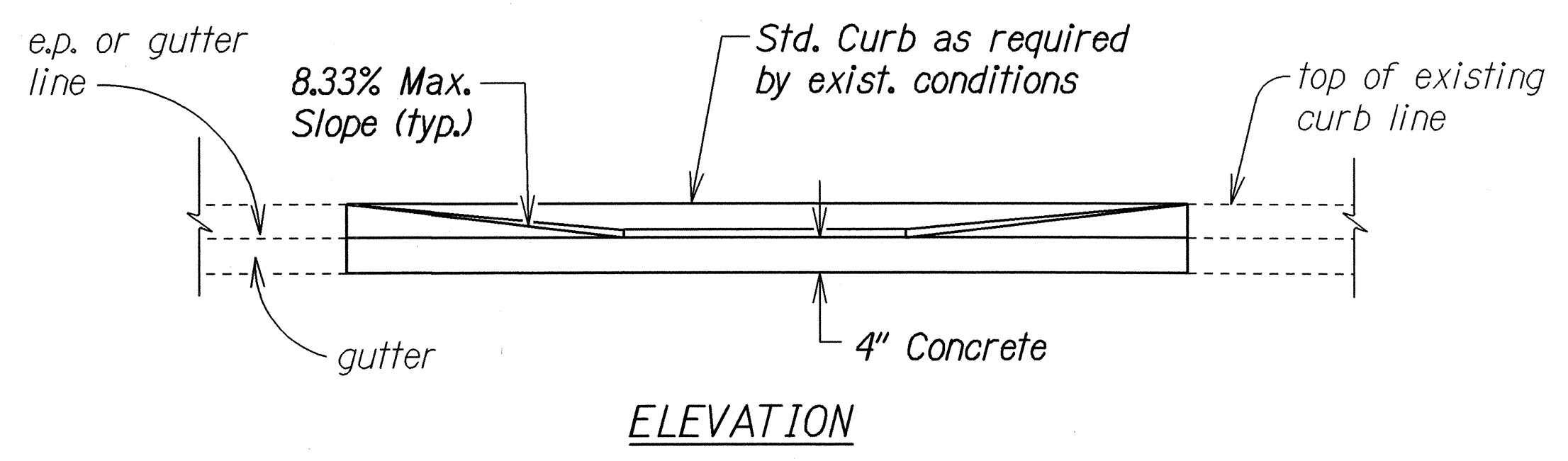
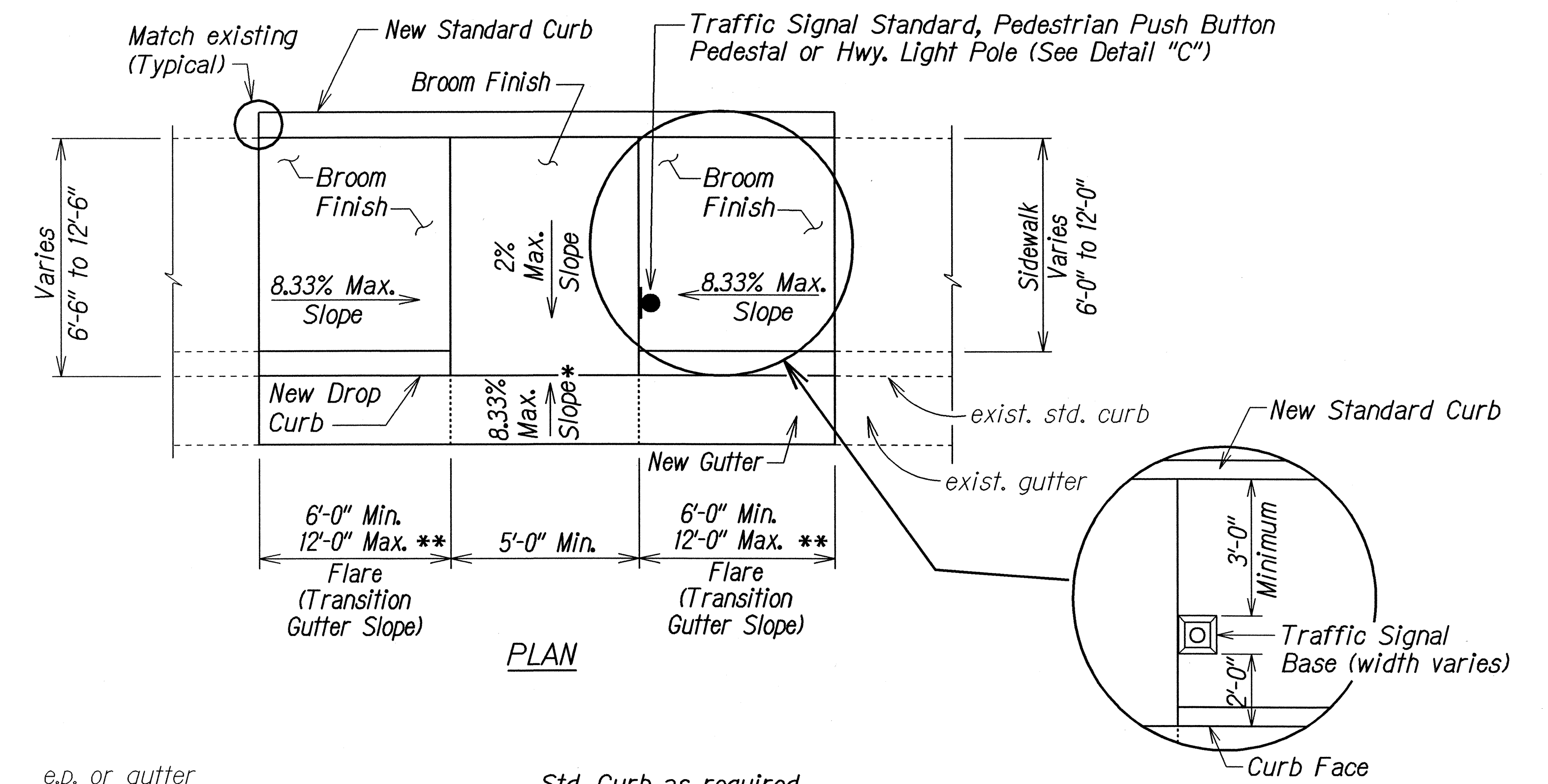
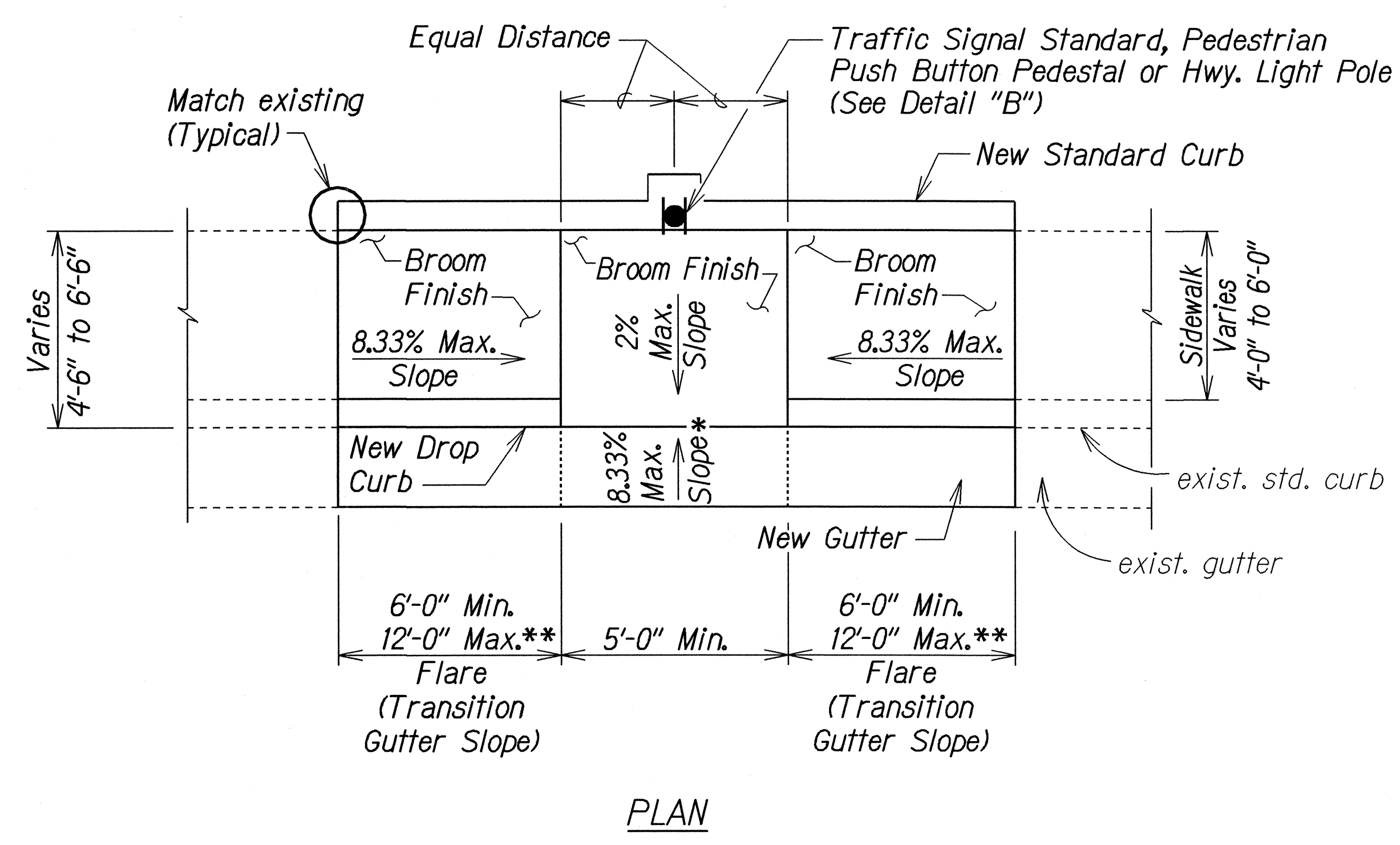
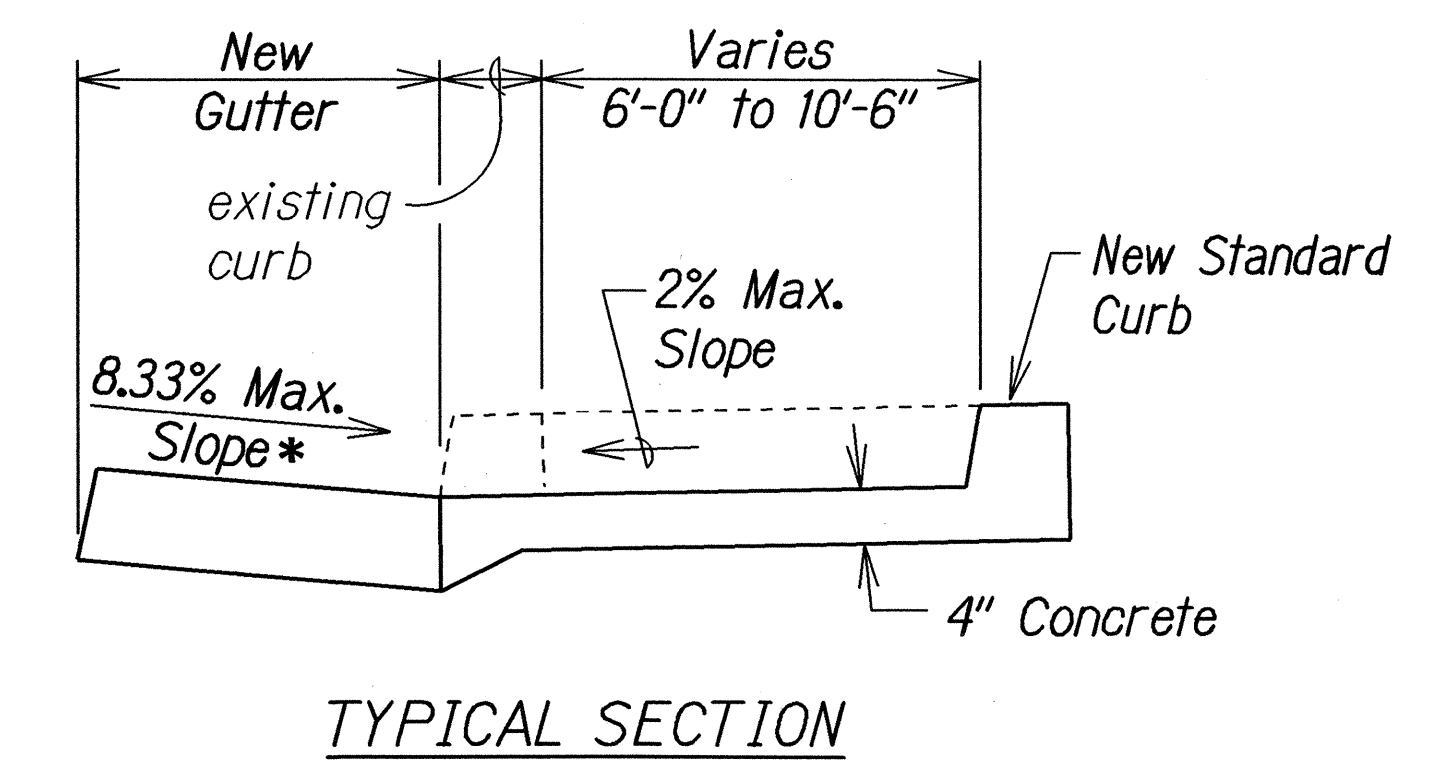
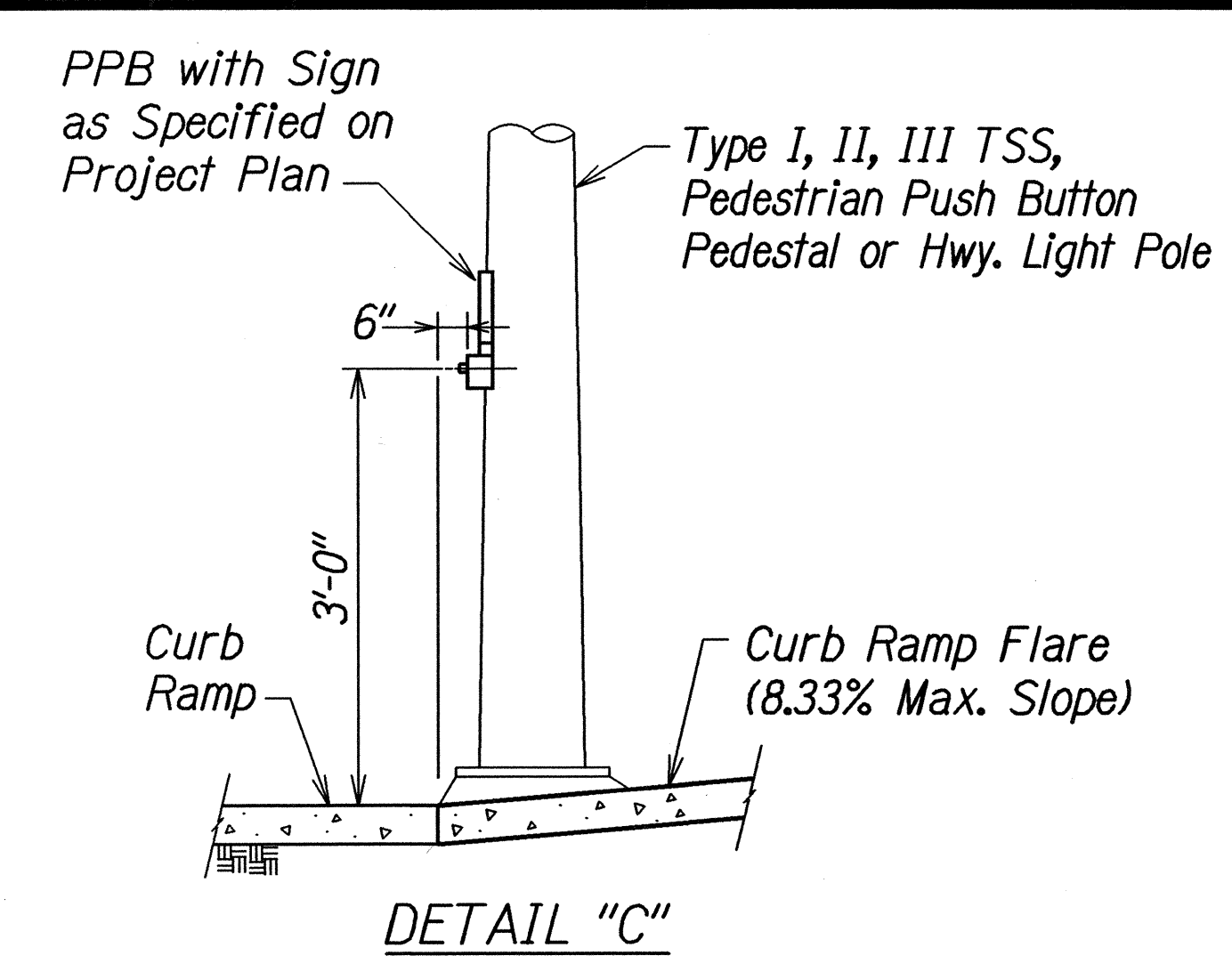
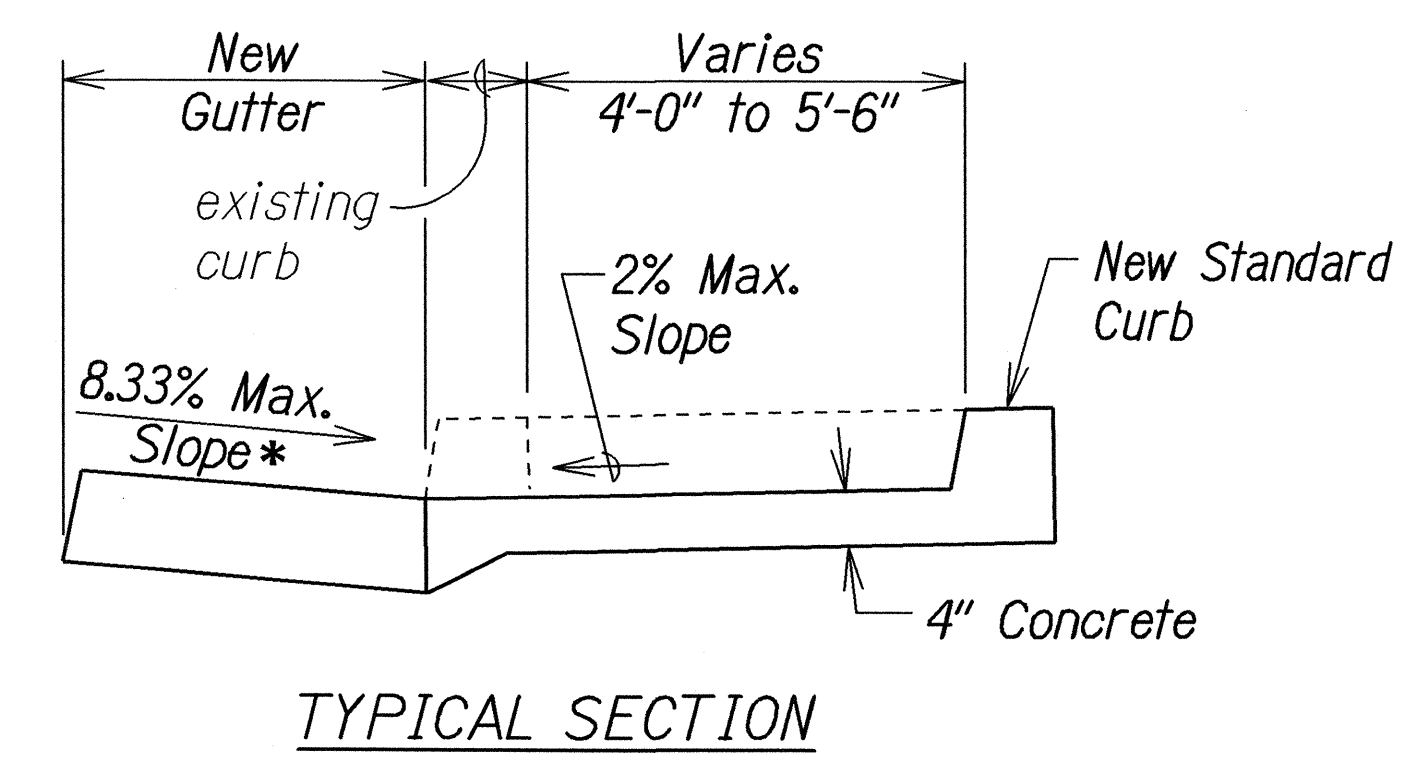
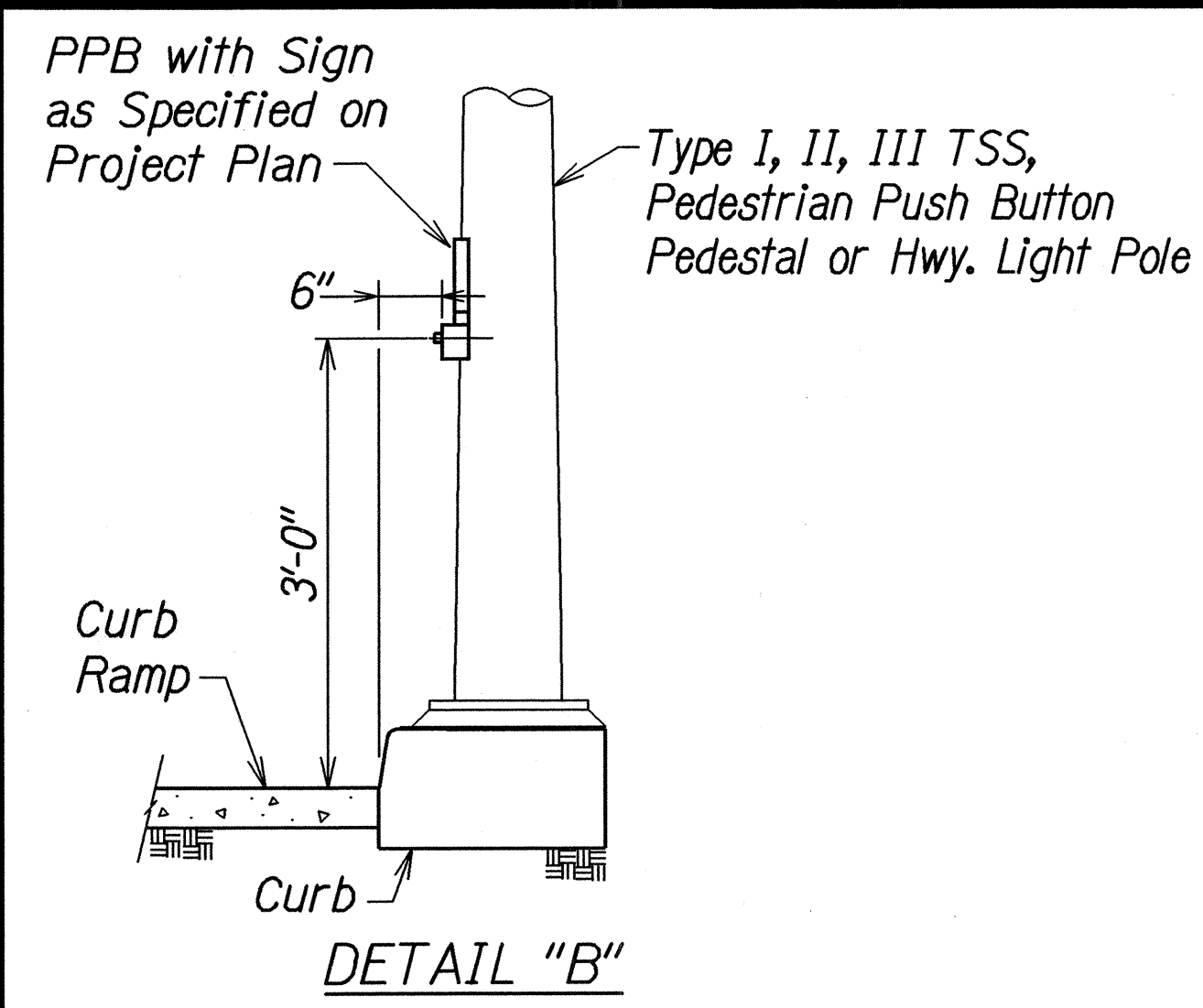
Not to Scale Date: June, 2005

SHEET No. 2 OF 9 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	
DESIGNED BY	CHECKED BY	
06/25/06		

tdl/usr2/traffic/std/curbampa.dgn
24-lardecbrmpa.dgn

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	25	106



CURB RAMP - TYPE "B"
SIDEWALK WIDTH 4'-0" OR GREATER
BUT LESS THAN 6'-0" WIDTH

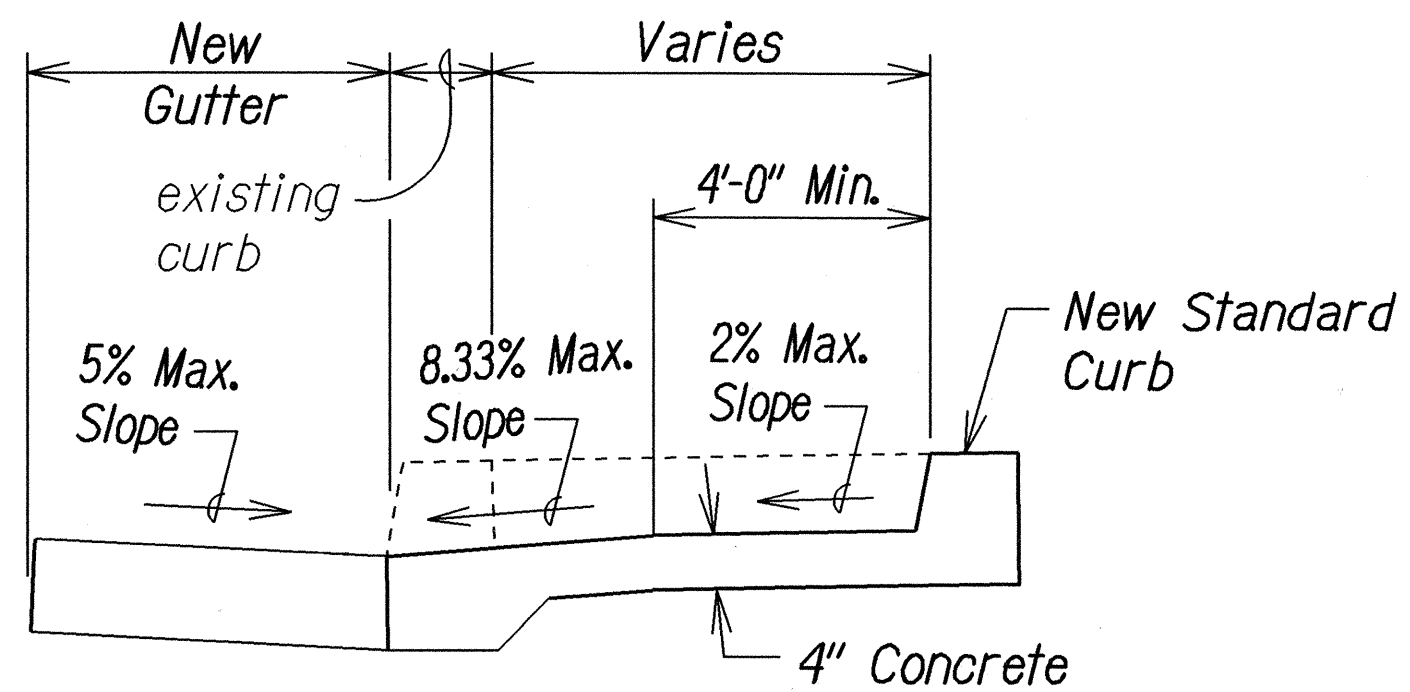
* See Curb Ramp and Sidewalk Note No. 9
** The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.

CURB RAMP - TYPE "B" MODIFIED
SIDEWALK WIDTH 6'-0" OR GREATER
BUT LESS THAN 12'-0" WIDTH

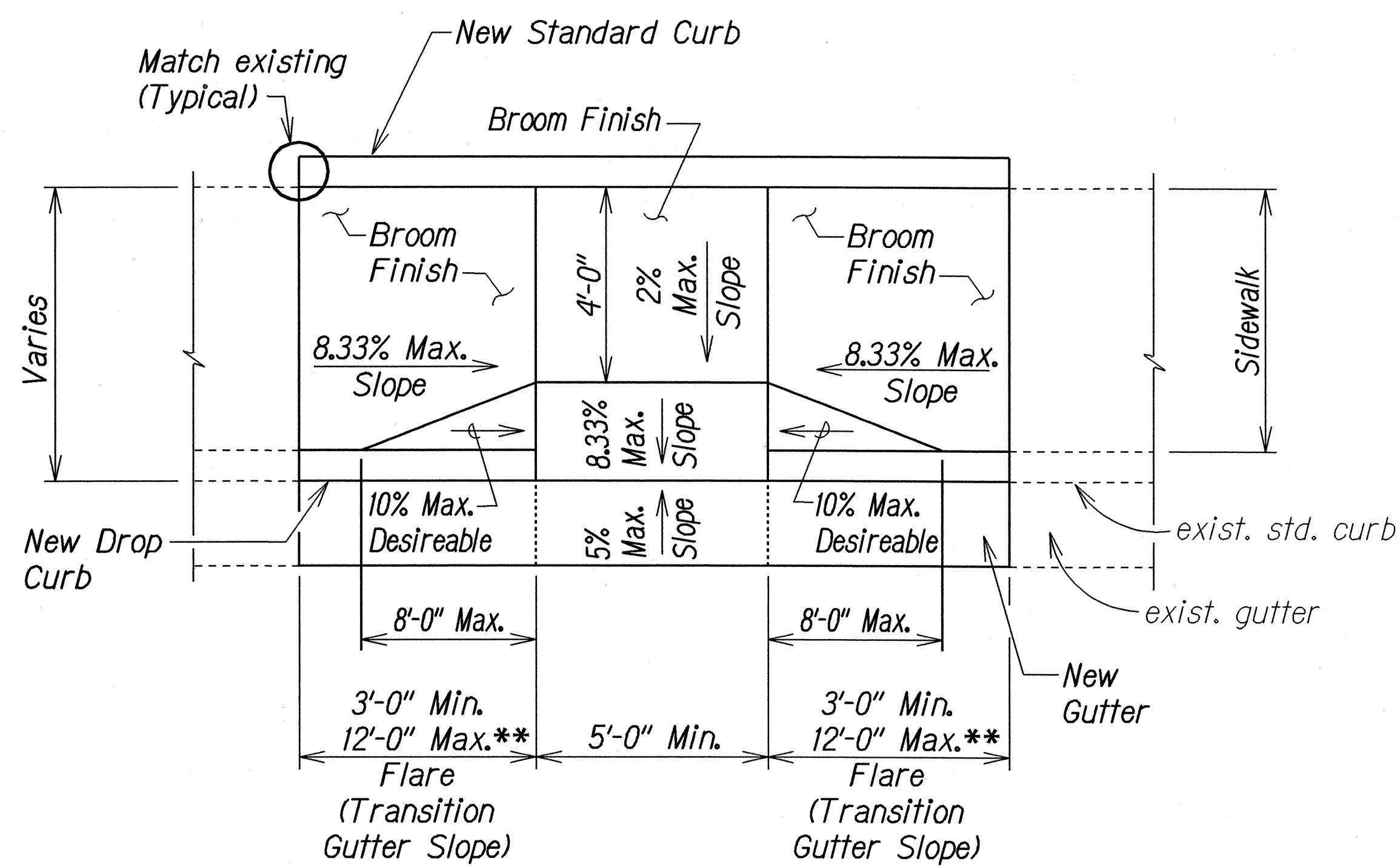
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAILS
AIEA ACCESS ROAD RESURFACING
MOANALUA ROAD
TO KAMEHAMEHA HIGHWAY
Project No. HWY-0-01-05M
Not to Scale Date: June, 2005
SHEET No. 3 OF 9 SHEETS

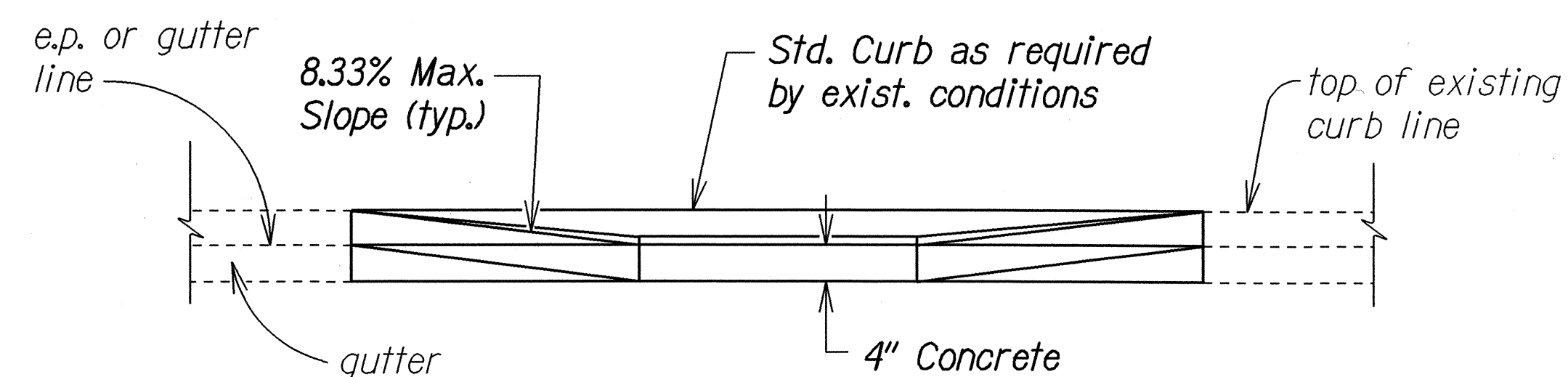
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	26	106



TYPICAL SECTION



PLAN



ELEVATION

CURB RAMP - TYPE "B" TRUNCATED

** The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
DATE	

R 10-22-03 TE-69 shi. 3A of 8 tdl/usr2/traffic/std/curbrampb2.dgn

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAILS

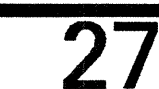
AIEA ACCESS ROAD RESURFACING
MOANALUA ROAD
TO KAMEHAMEHA HIGHWAY
Project No. HWY-0-01-05M

Not to Scale Date: June, 2005

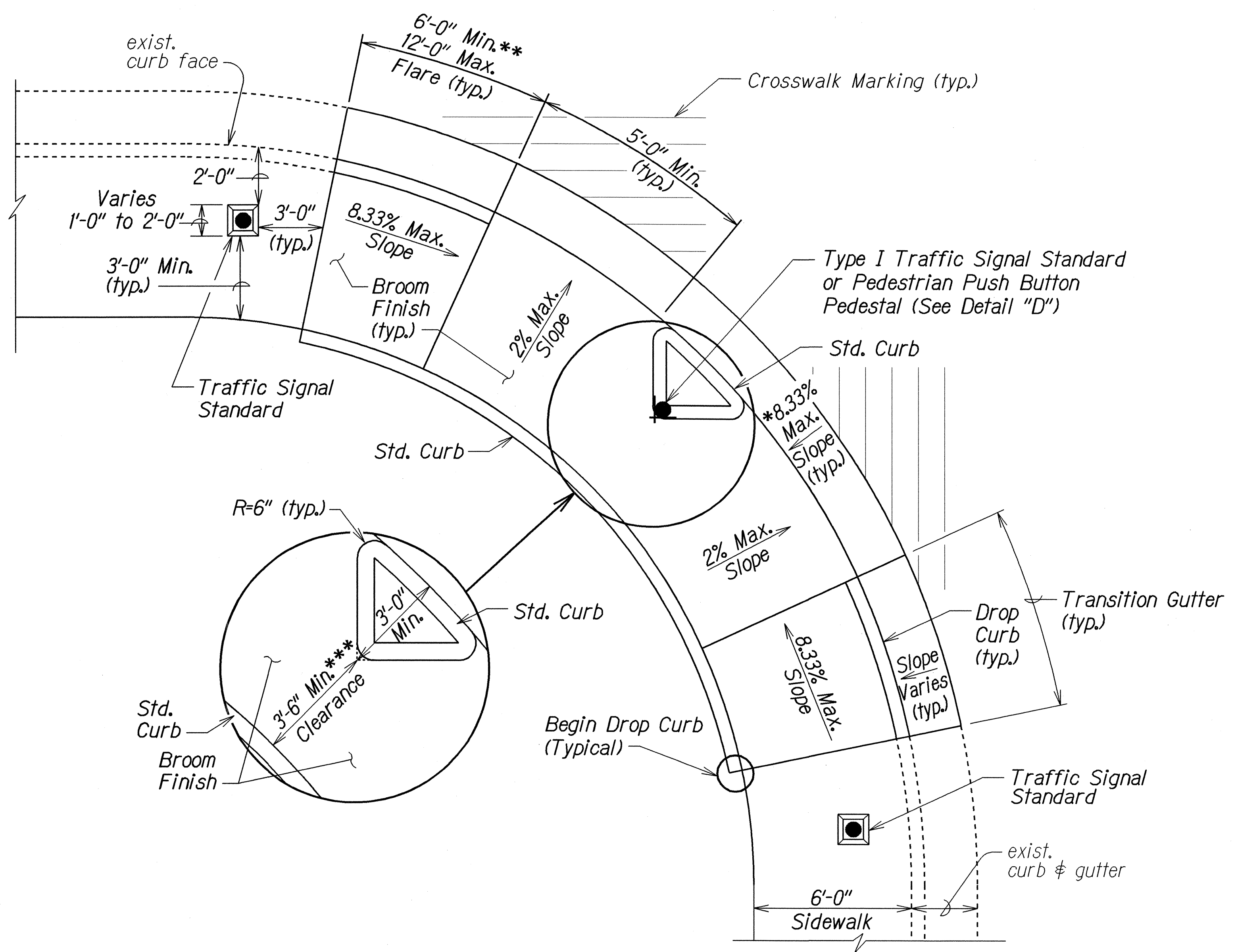
SHEET No. 4 OF 9 SHEETS

The diagram illustrates a crosswalk layout with the following components and dimensions:

- Left Side:** A 6" dimension is shown for the leftmost section.
- Center Section:** A section labeled "Width Varies" is shown, flanked by 6" dimensions on both sides.
- Traffic Signal:** A bracketed section labeled "Traffic Signal" with a dimension of "4'-0" Min." and "5'-0" Desired".
- Right Side:** A section labeled "Crosswalk" is shown.



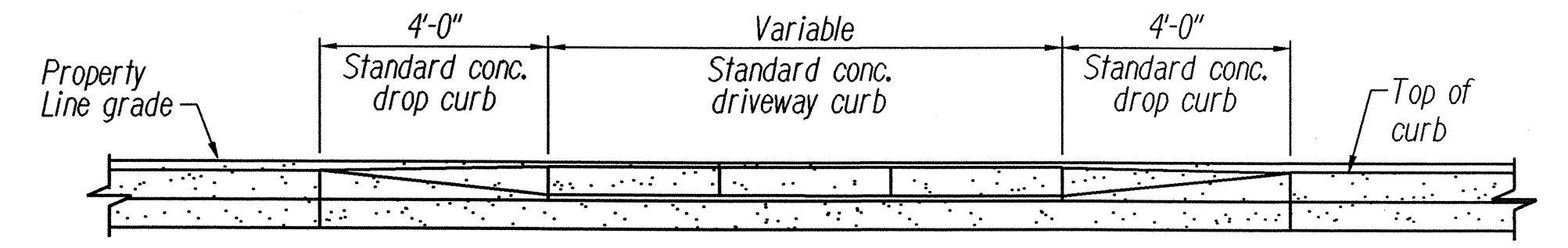
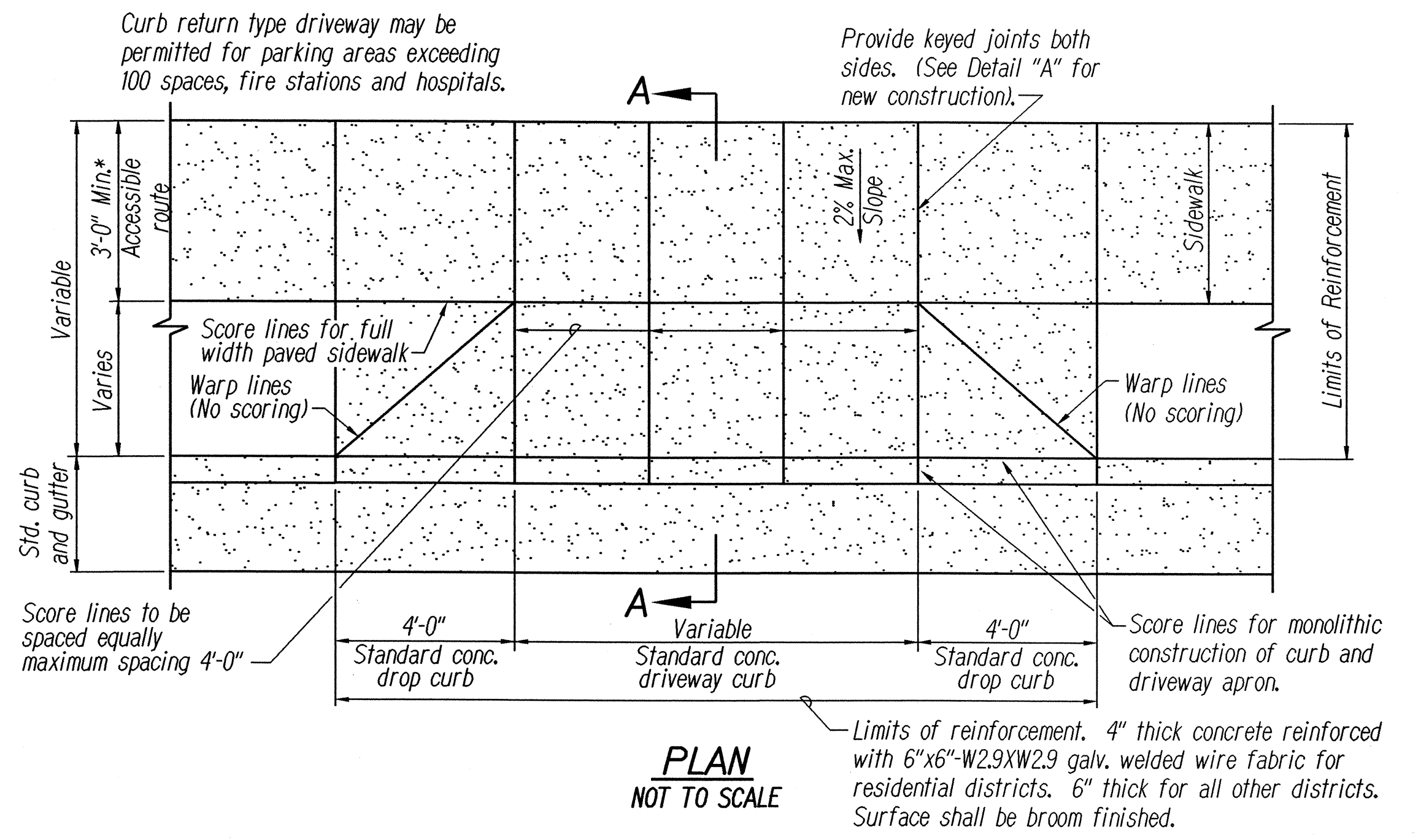
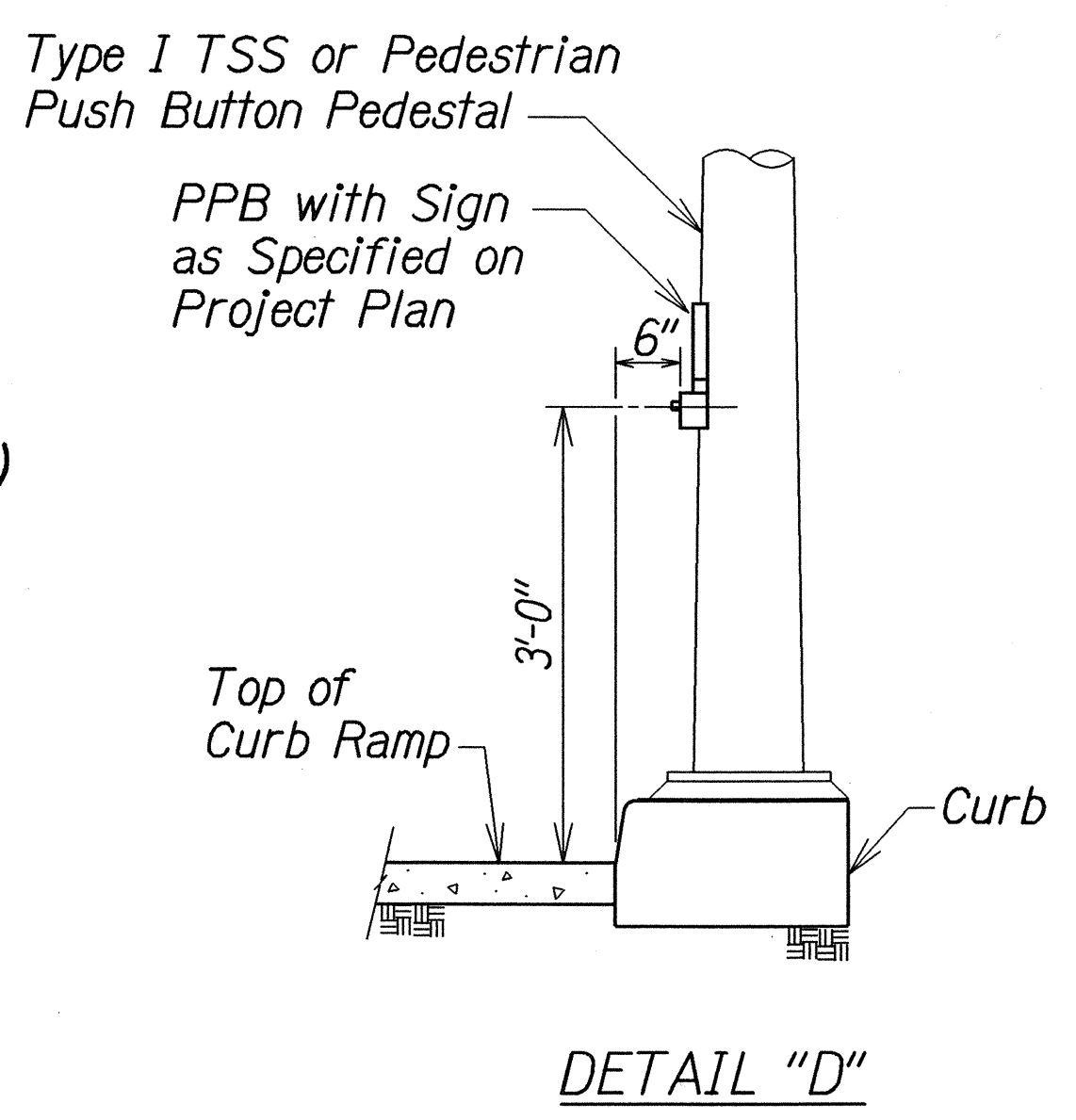
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	28	106



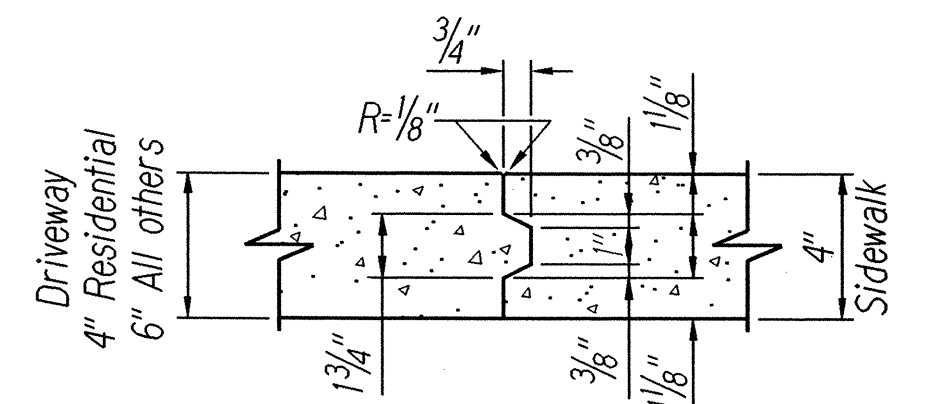
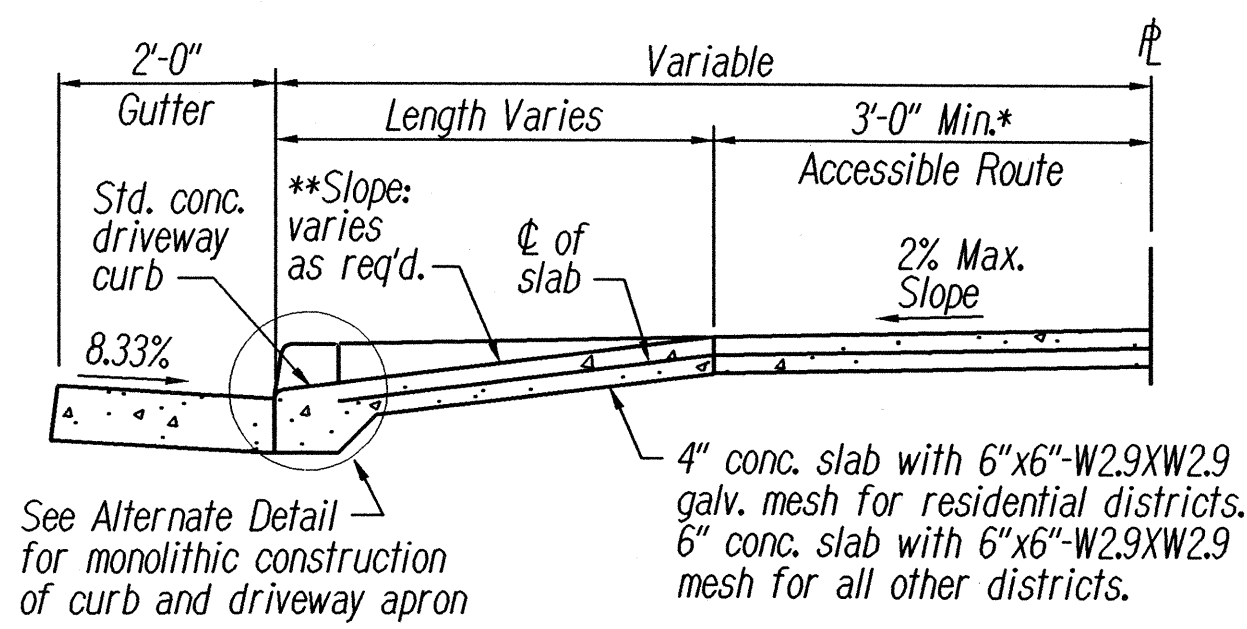
CURB RAMP - TYPE "E"
SIDEWALK WIDTH 7'-0" OR GREATER

(TO BE USED ONLY WITH TRAFFIC SIGNAL STANDARD OR PEDESTRIAN PUSH BUTTON PEDESTAL ON TRIANGULAR "ISLAND")

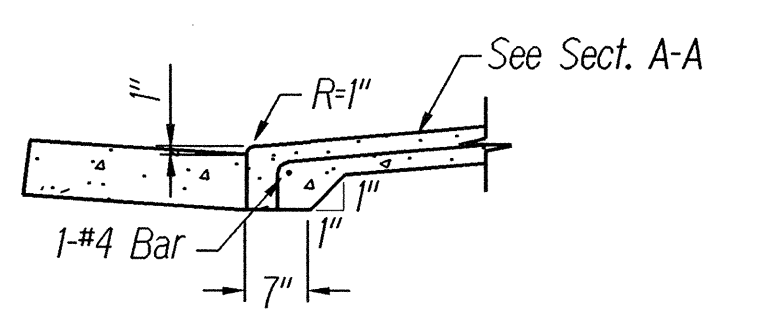
- * See Curb Ramp and Sidewalk Note No. 9
- ** The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.
- *** The Clearance shall be increased to 6'-0" or wider at areas with high pedestrian traffic or as directed by the Engineer or as shown on the plans.



- * Match width of existing sidewalk whenever possible
- ** Breakover and departure angles should not exceed 10 degrees or 17%.



DETAIL "A"
NOT TO SCALE
(NEW CONSTRUCTION)



ALTERNATE DETAIL
NOT TO SCALE

SECTION A-A
NOT TO SCALE

DRIVEWAY APRON

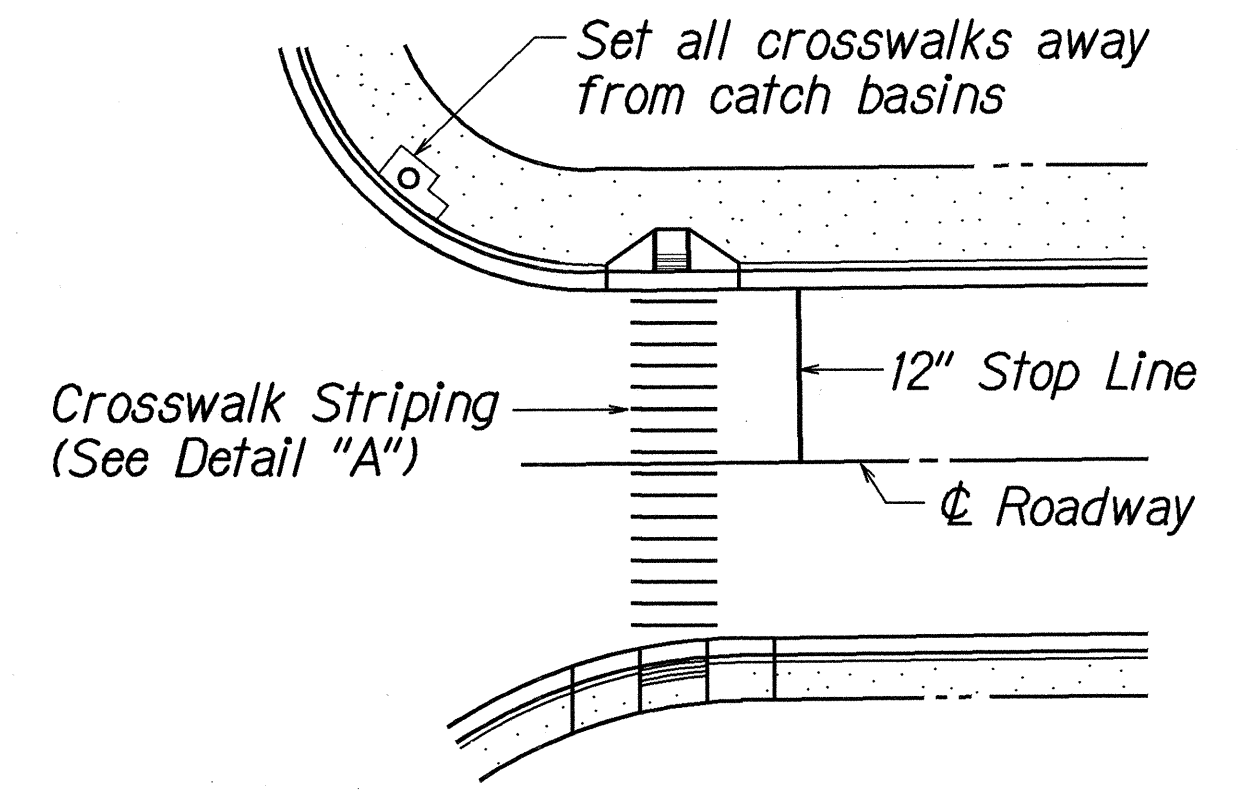
- NOTES:**
- For extension to existing driveway, scoring and finish shall match existing scoring and finish. For driveway constructed in built up areas, scoring conforming to scoring at adjacent driveways may be authorized.
 - This detail is only one method for providing ADA access. Other methods can be used. These methods are shown in references listed in Curb Ramp and Sidewalk Note No. 21.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

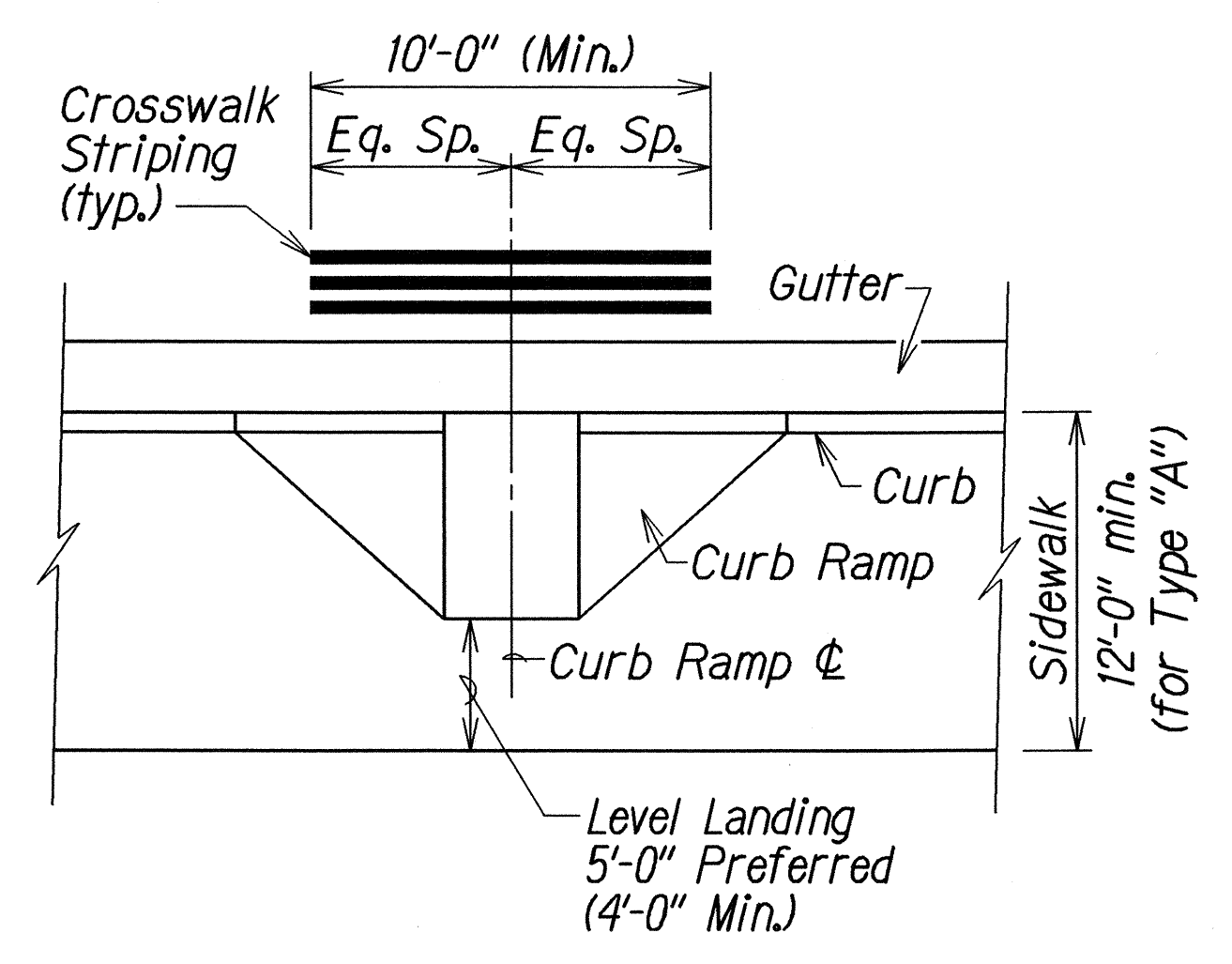
CURB RAMP DETAILS
AIEA ACCESS ROAD RESURFACING
MOANALUA ROAD
TO KAMEHAMEHA HIGHWAY
Project No. HWY-0-01-05M
Not to Scale Date: June, 2005
SHEET No. 6 OF 9 SHEETS

R 08-25-03 TE-69 sht. 5 of 8
 tdl/usr2/traffic/std/curbampedgn
 SURVEY PLOTTED BY: DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 No. _____

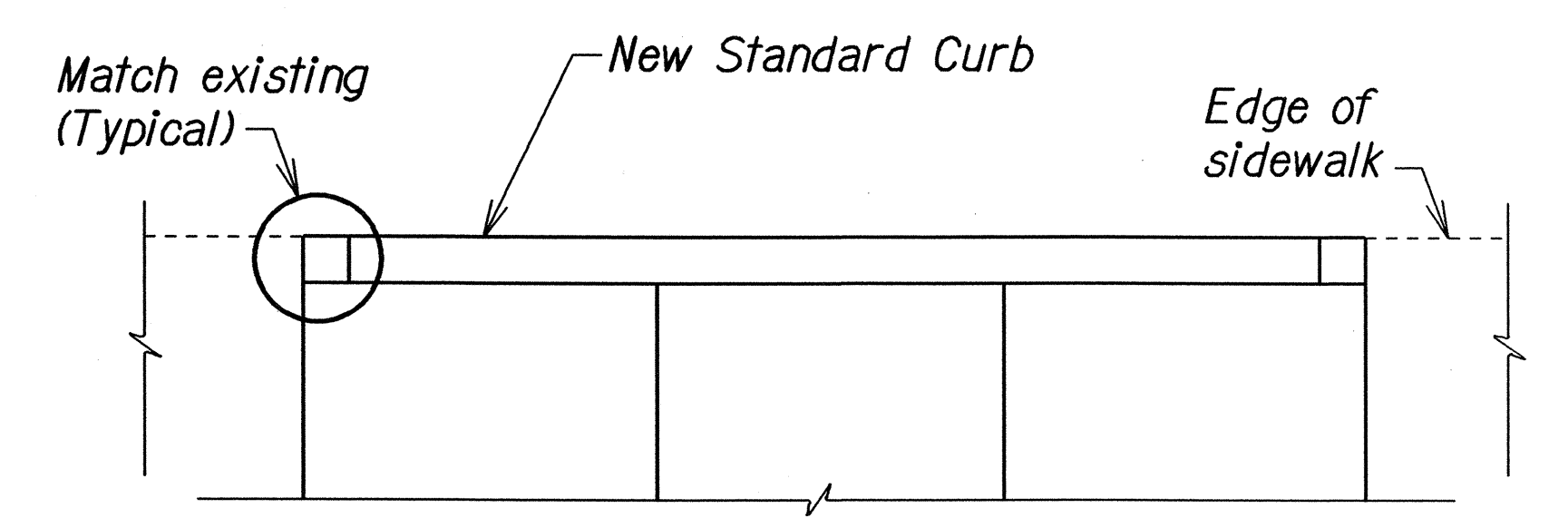
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	29	106



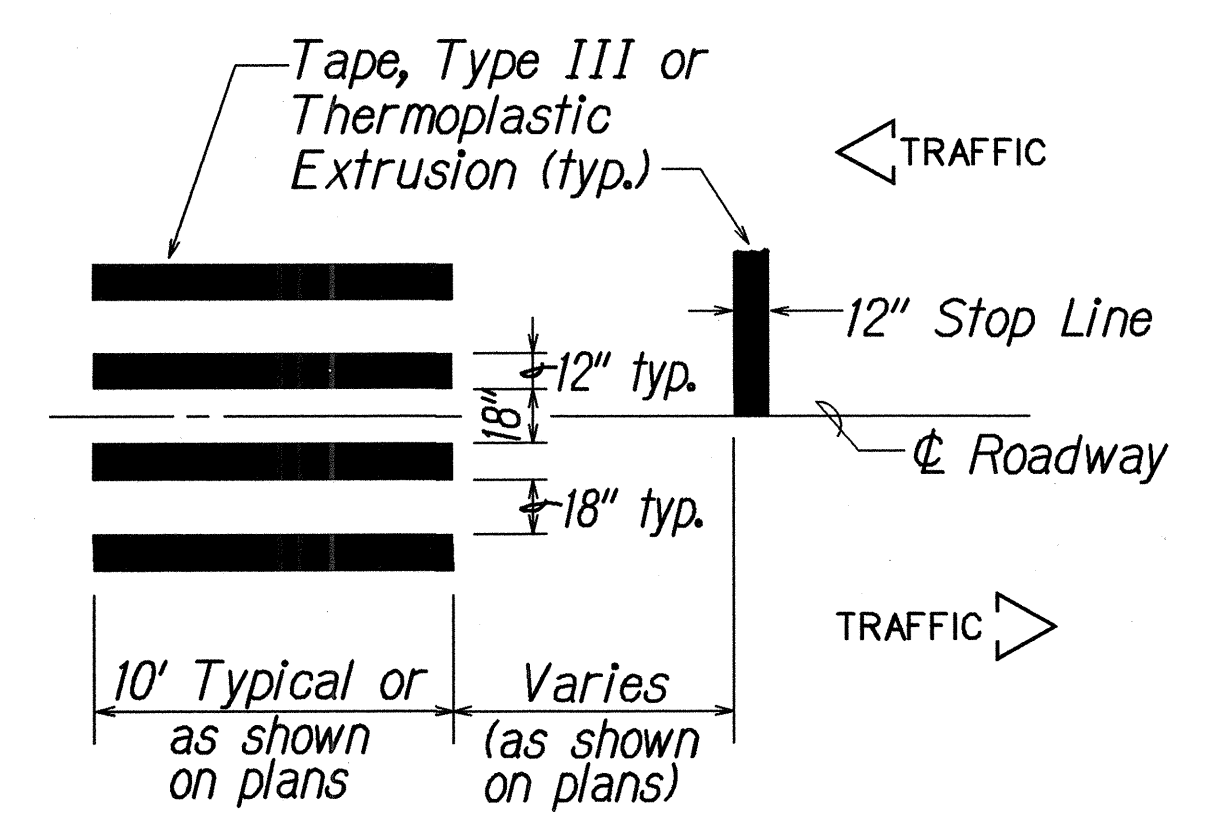
PLAN



TYPICAL CROSSWALK STRIPING
AT CURB RAMP

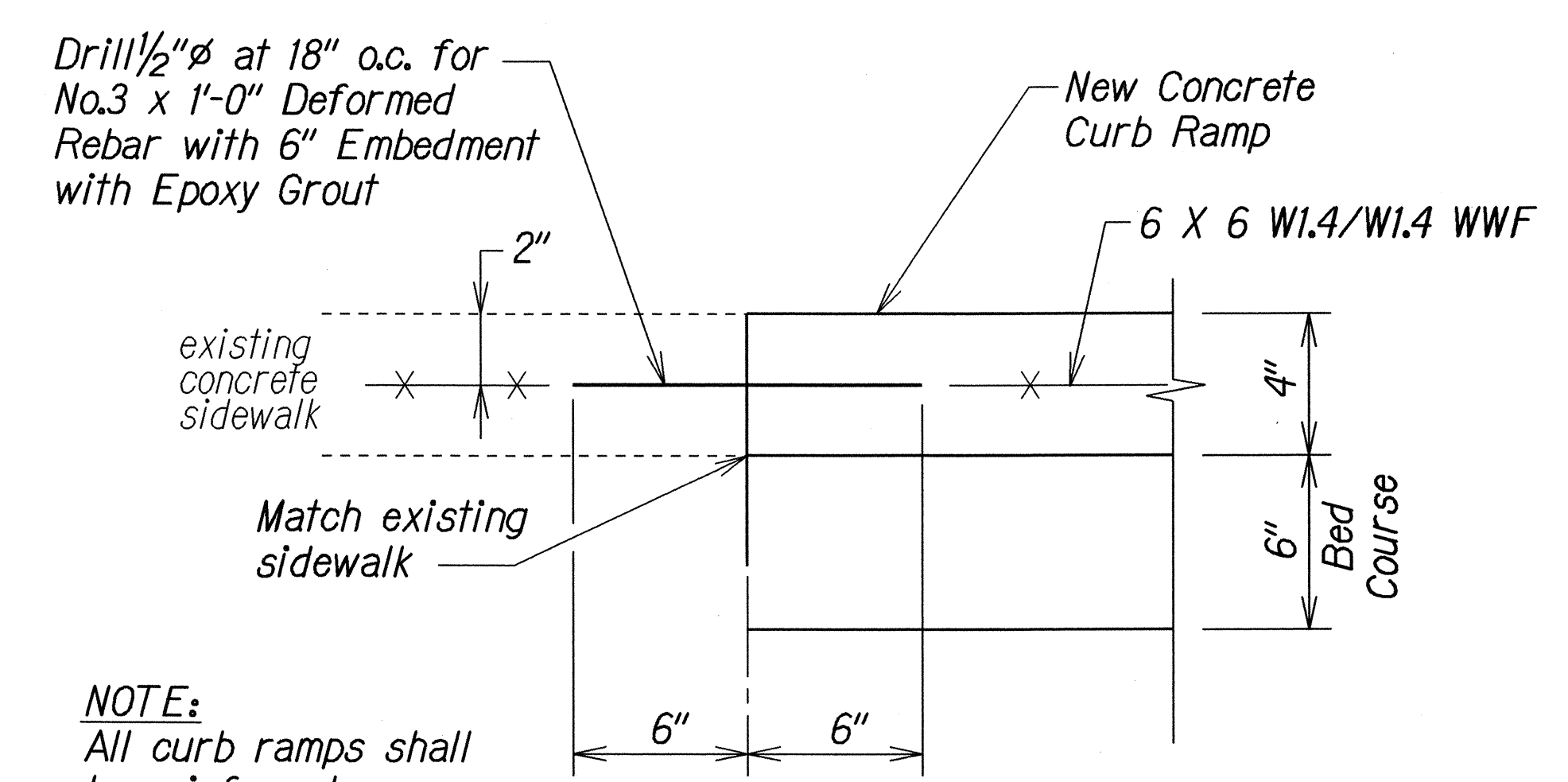


PLAN



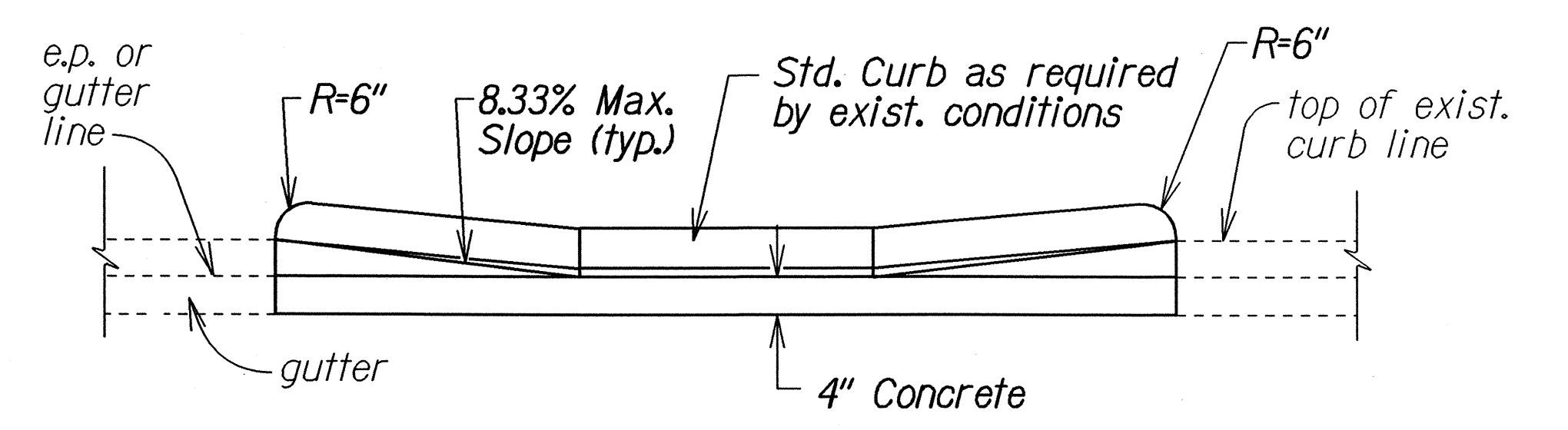
DETAIL "A"
CROSSWALK STRIPING DETAIL

NOTE:
Longitudinal lines shall be parallel to traffic flow.



NOTE:
All curb ramps shall be reinforced.

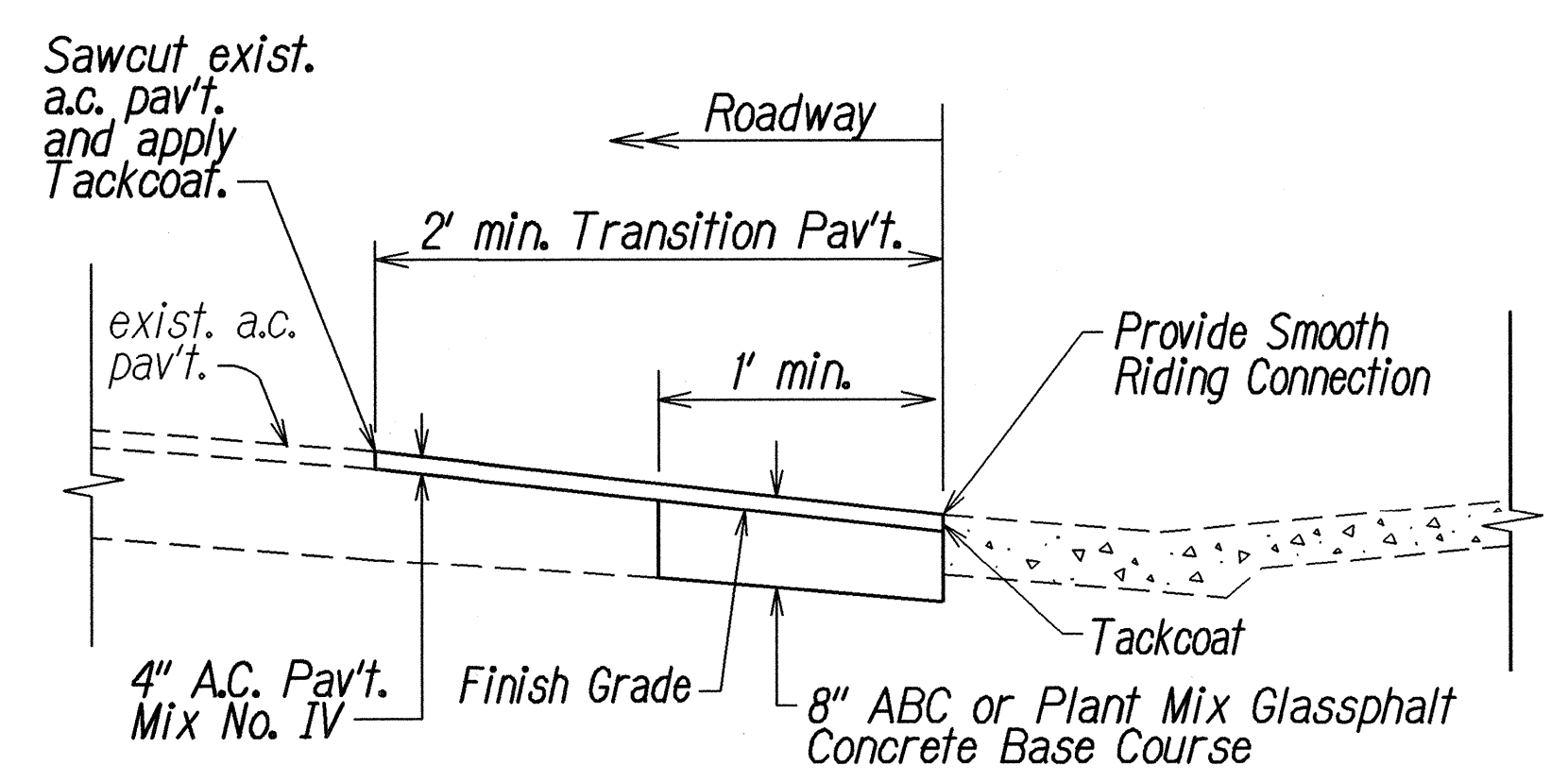
TYPICAL CONSTRUCTION JOINT
AT EXISTING SIDEWALK



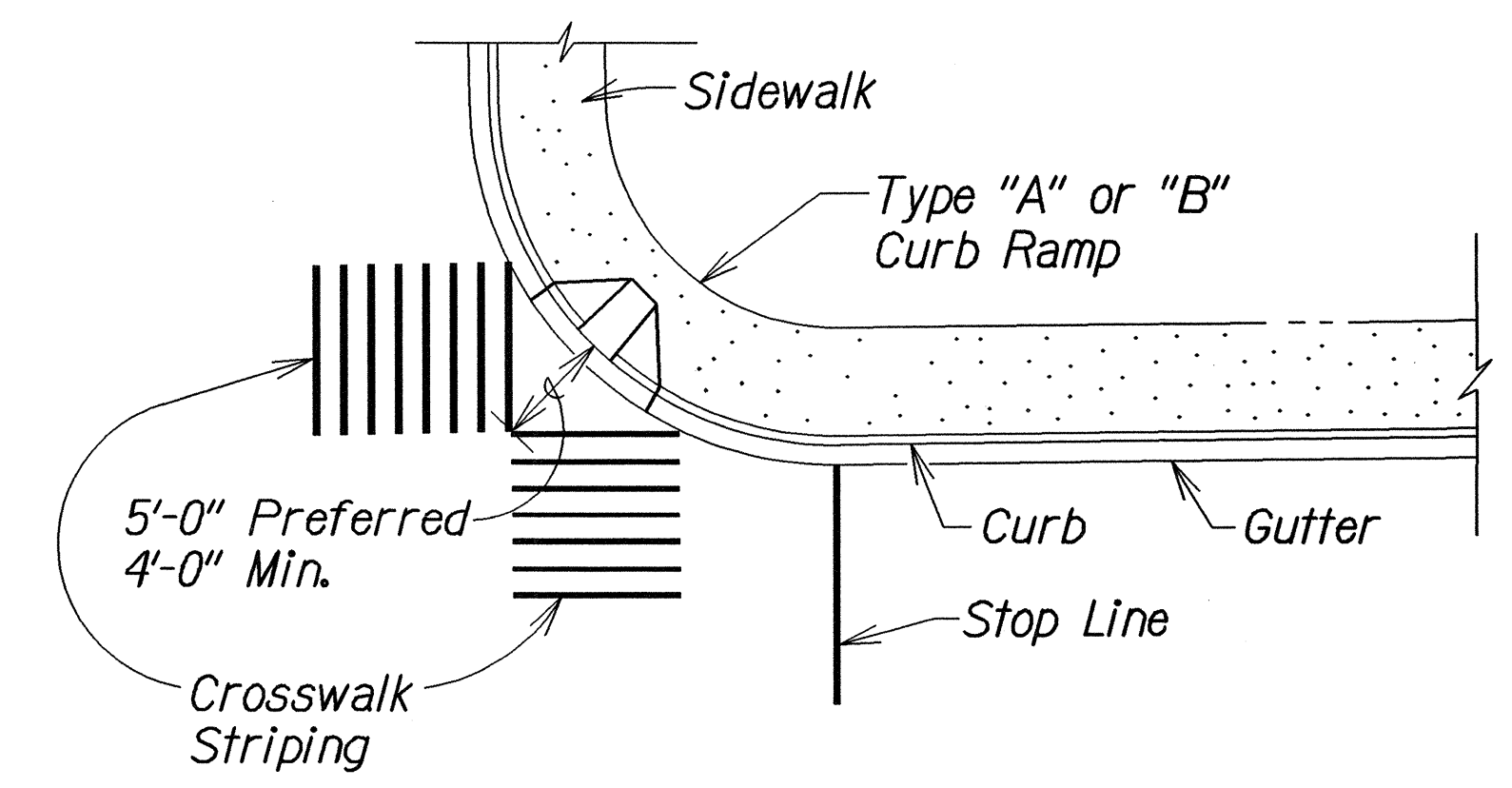
ELEVATION

DETAIL - BACK CURB

NOTE:
This detail can be used in situations where the edge of sidewalk cannot be flush with the face of (back) curb due to right of way restrictions.



PAVEMENT TRANSITION DETAIL



TYPICAL CROSSWALK STRIPING
AT DIAGONAL CURB RAMP

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

CURB RAMP DETAILS

AIEA ACCESS ROAD RESURFACING

MOANALUA ROAD

TO KAMEHAMEHA HIGHWAY

Project No. HWY-0-01-05M

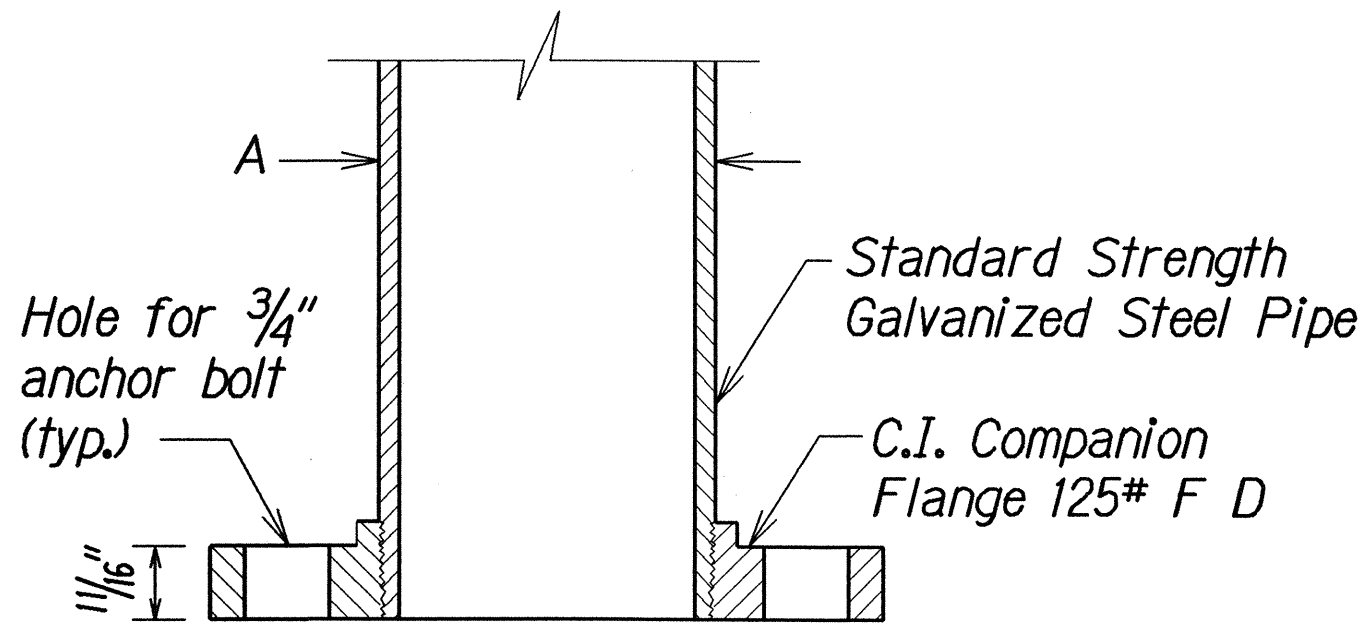
Not to Scale

Date: June, 2005

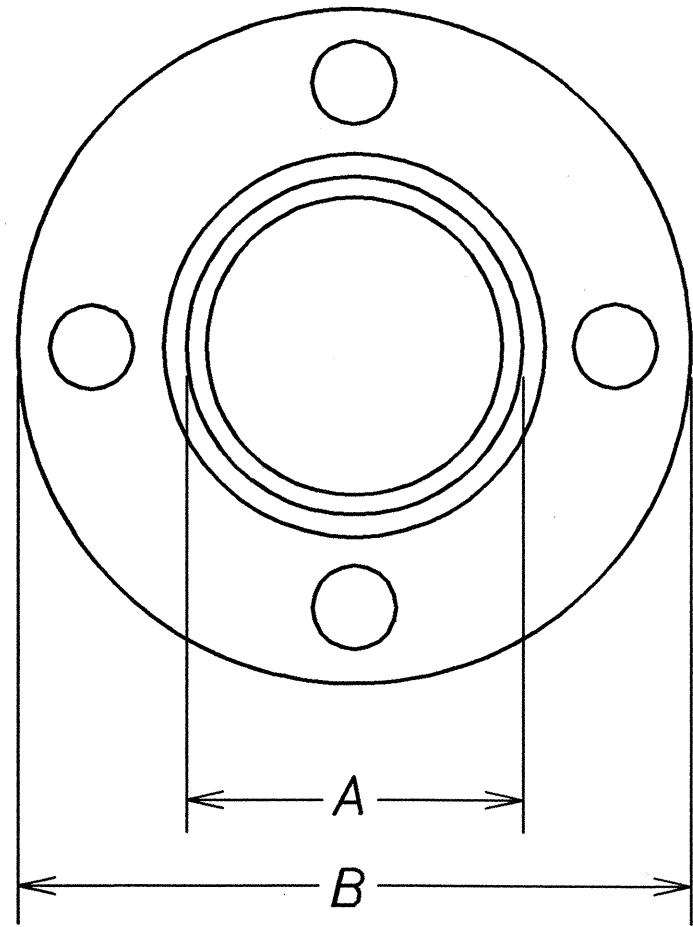
SHEET No. 7 OF 9 SHEETS

tdl/usr2/traffic/std/curbampmisc.dgn
R 08-22-03 TE-XX sh. 6 of 8

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	30	106



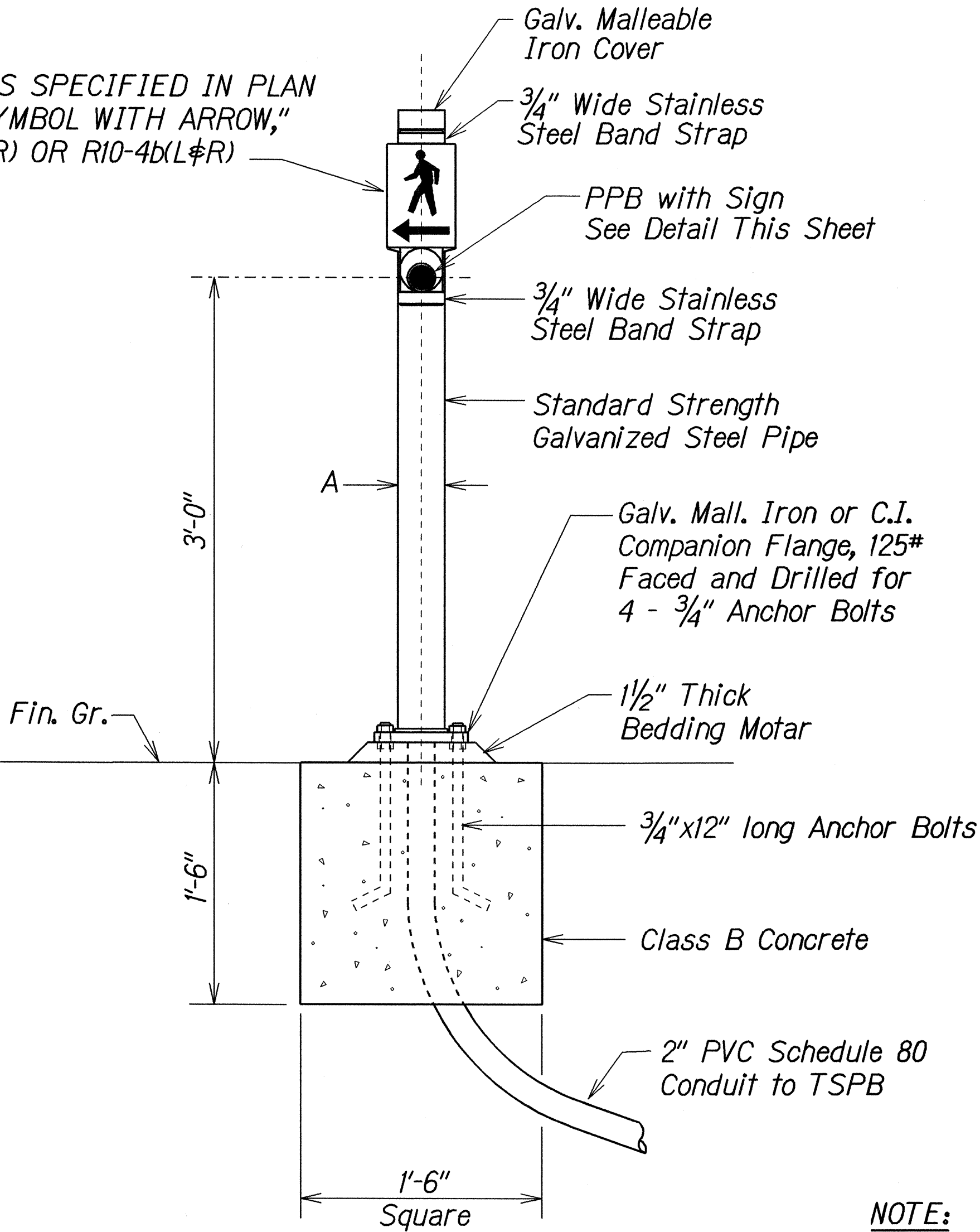
SECTION



TOP VIEW

FLANGE DETAIL

TRAFFIC SIGN AS SPECIFIED IN PLAN
"WALKING MAN SYMBOL WITH ARROW,"
R10-4b(L), R10-4b(R) OR R10-4b(L&R)

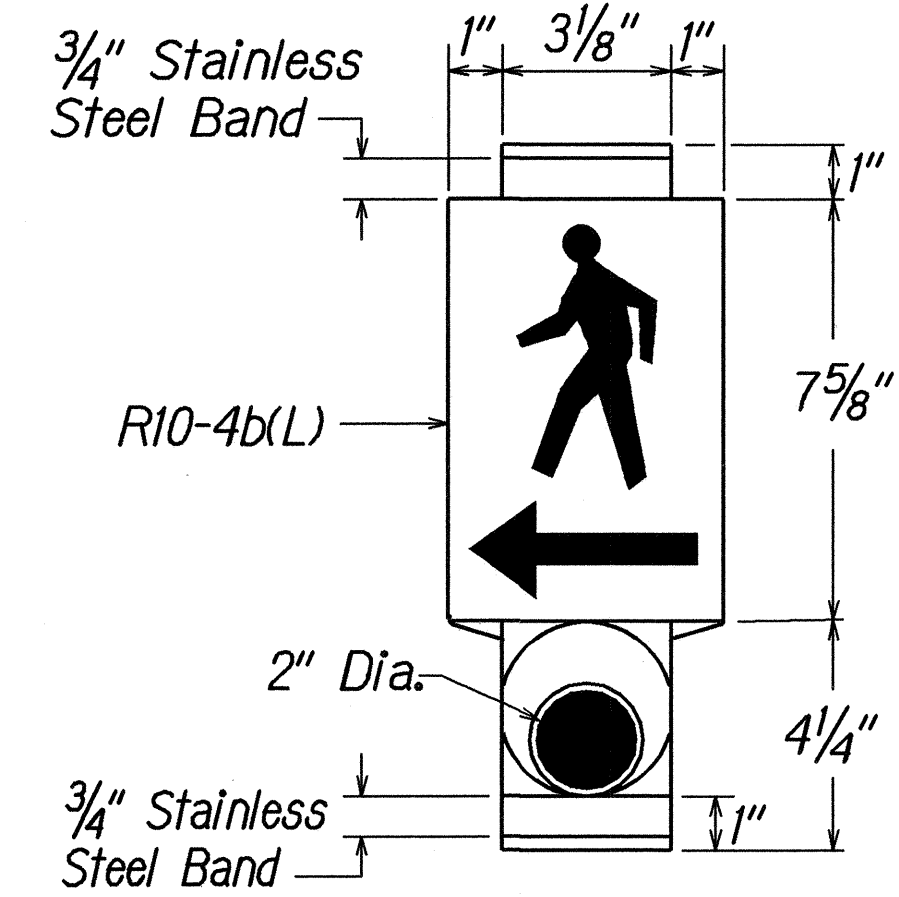


PPB POST AND FOOTING DETAIL

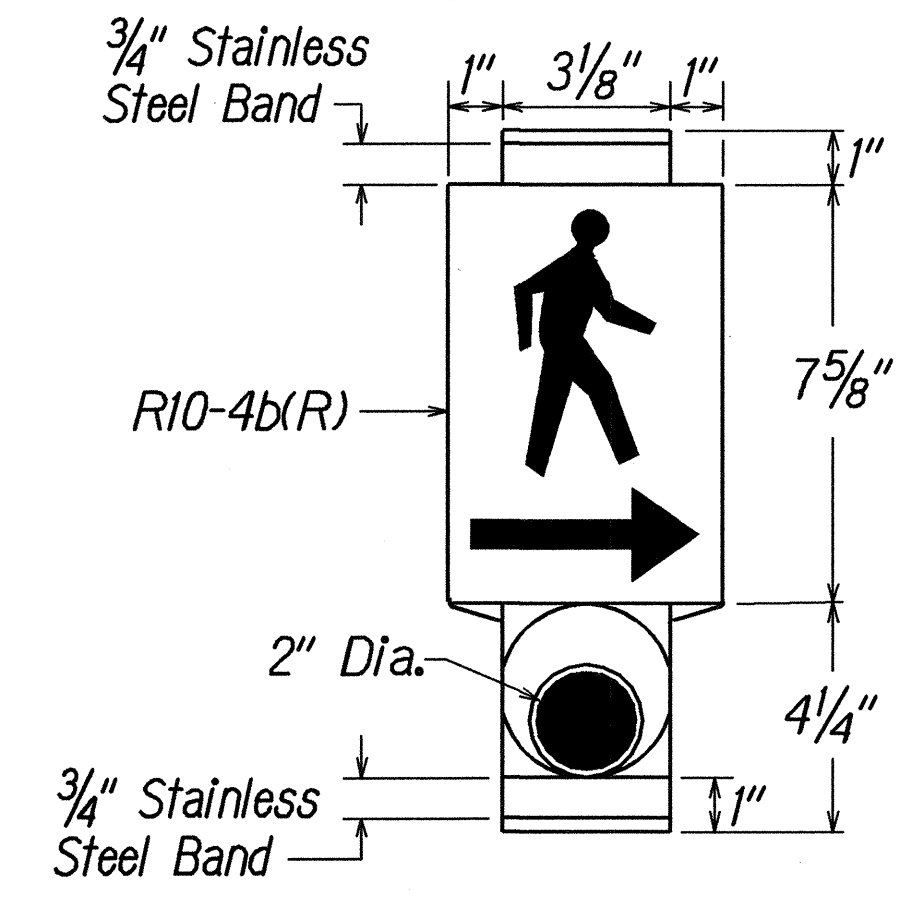
DATA TABLE FOR PPB POST		
AMOUNT OF PPB	DIMENSIONS	
	A	B
1	3 1/2"	8"
2 → 3	4 1/2"	9"

NOTE:

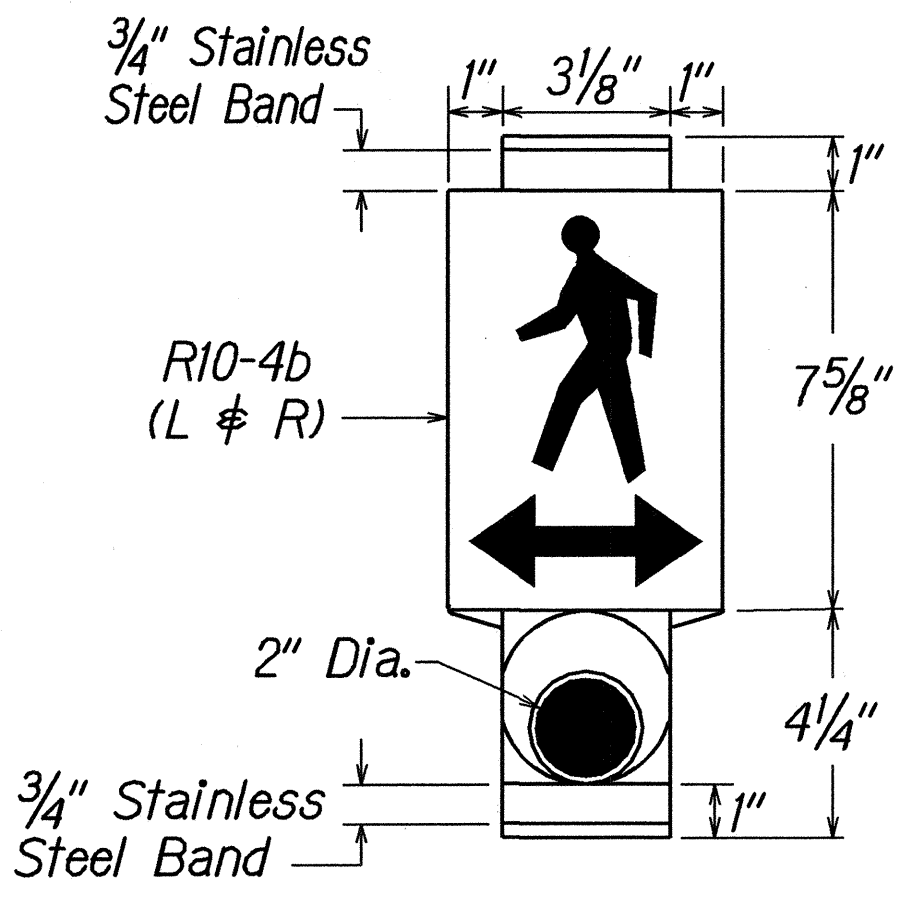
1. Conduits shall protrude 2" max. above finished surface of foundation.
2. Conduits shall slope away from post foundation.



Left



Right



Left & Right

PEDESTRIAN PUSH BUTTON WITH SIGN

Man, Arrow & Push Button - White
Background - Black

NOTE:

There shall be a 30" x 48" level ground surface (2% max. cross slope, both directions) for a forward or side approach, as appropriate, to a pedestrian push button. Location of pedestrian push button shall be shown on Civil Plans in addition to Electrical Plans.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PEDESTRIAN PUSH BUTTON DETAILS

AIEA ACCESS ROAD RESURFACING

MOANALUA ROAD

TO KAMEHAMEHA HIGHWAY

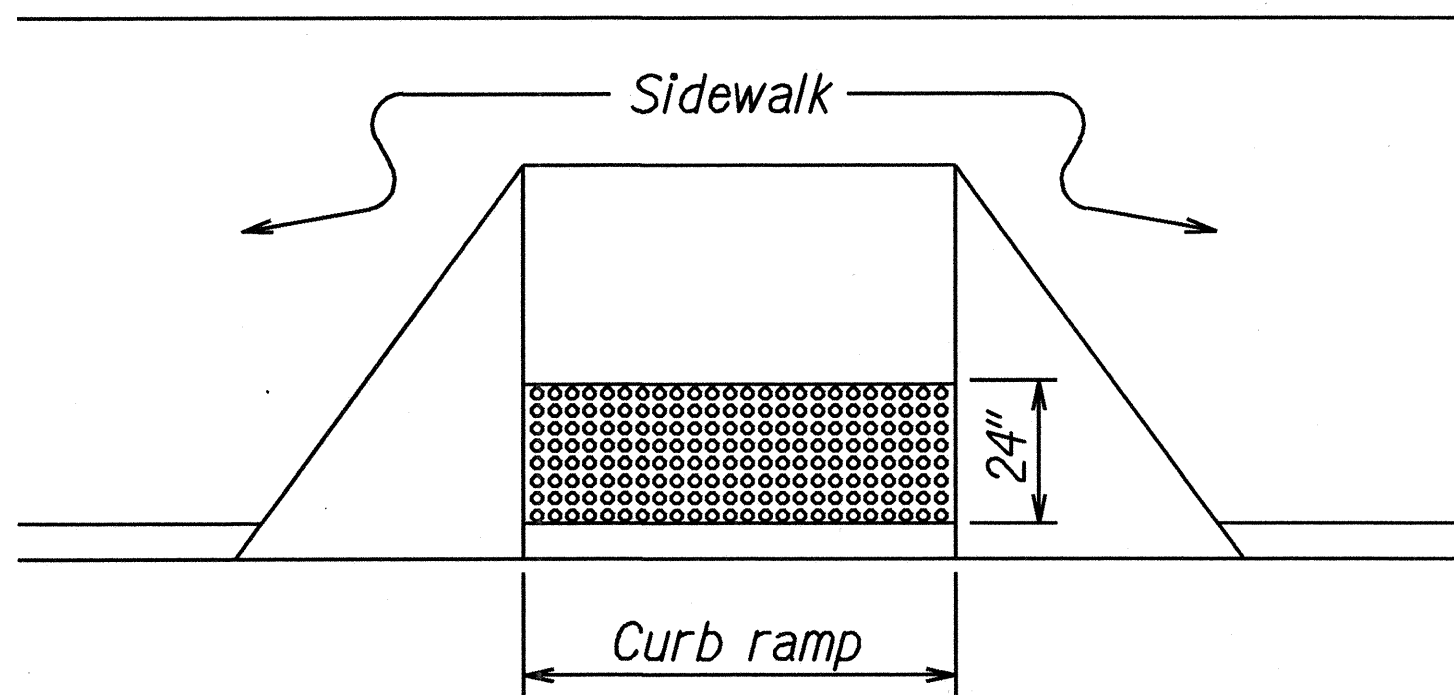
Project No. HWY-0-01-05M

Not to scale

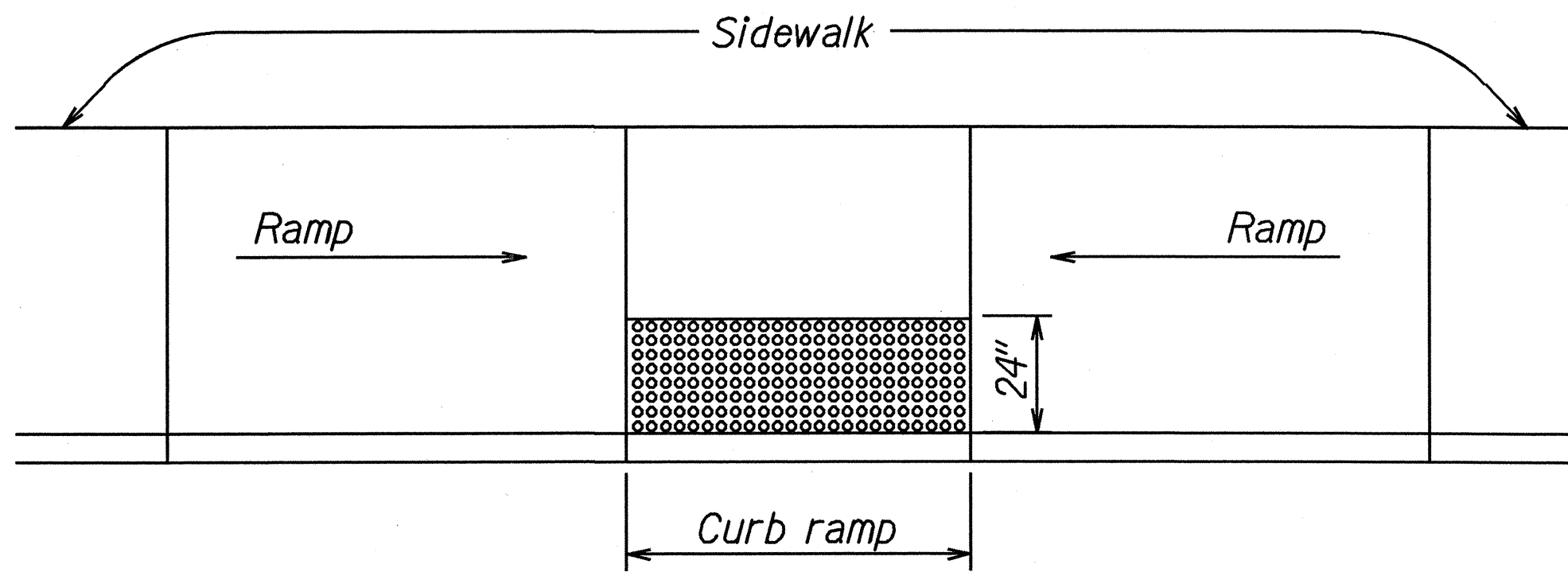
Date: June, 2005

SHEET No. 8 OF 9 SHEETS

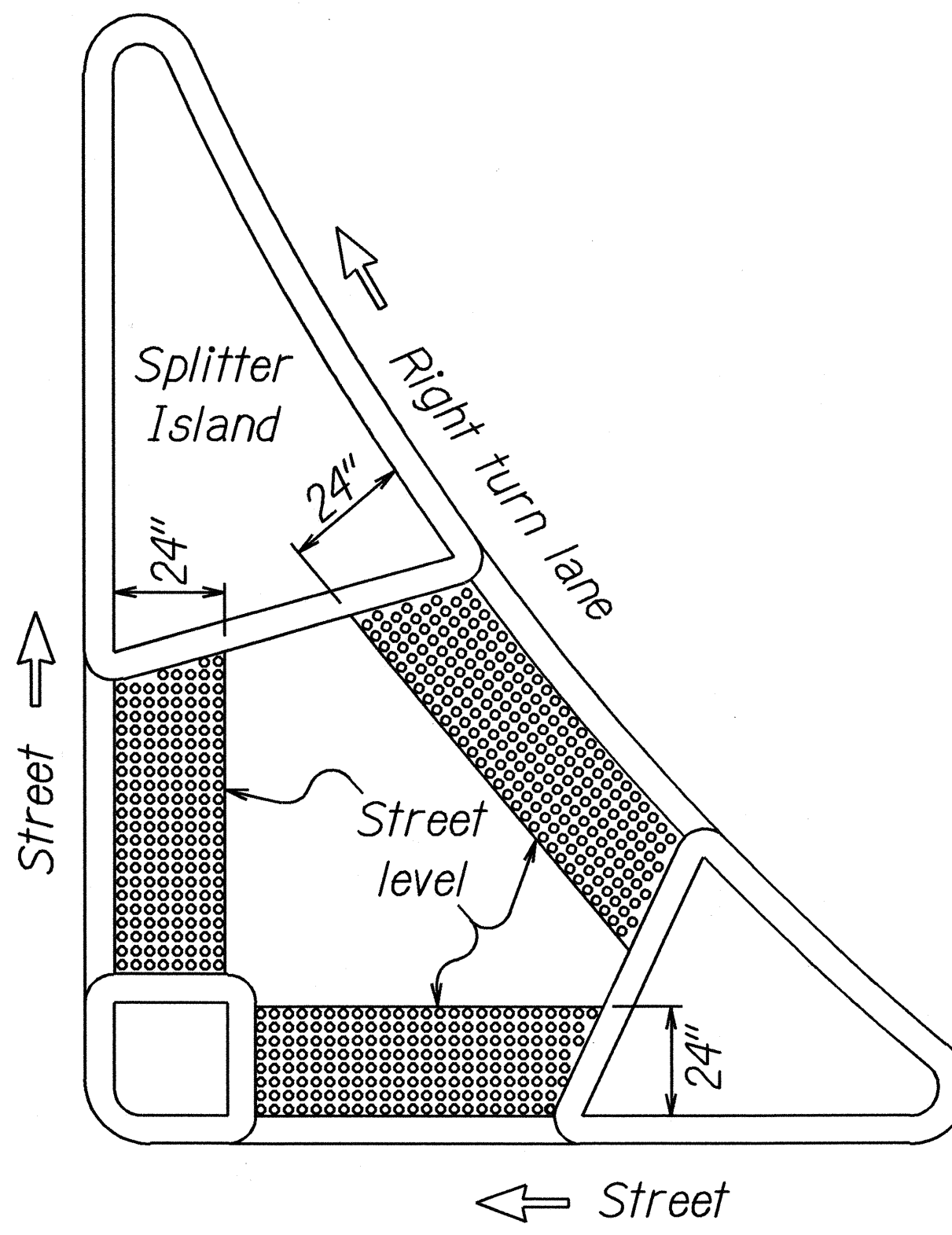
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-05M	2006	31	106



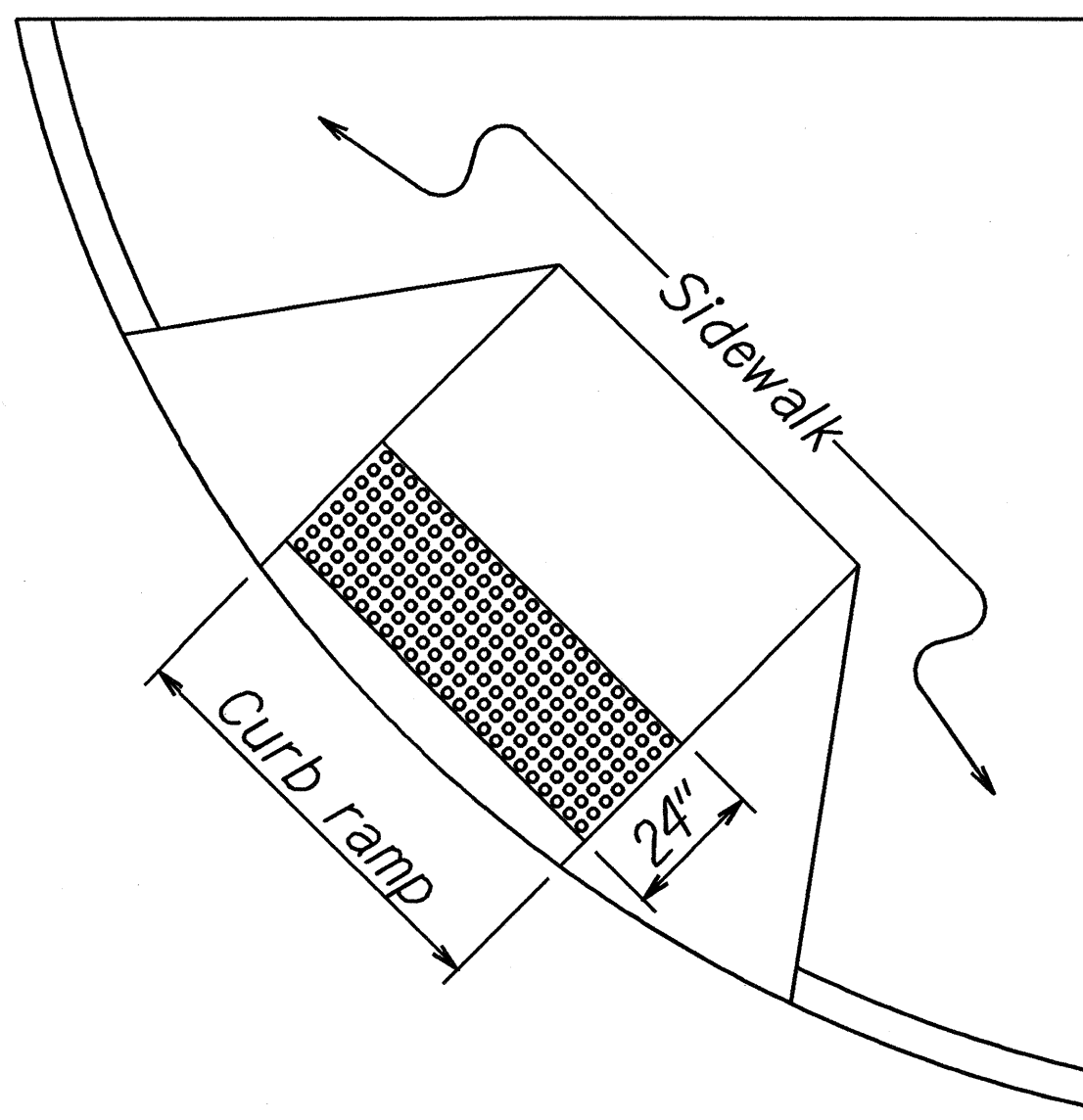
DETECTABLE WARNING AT CURB RAMP



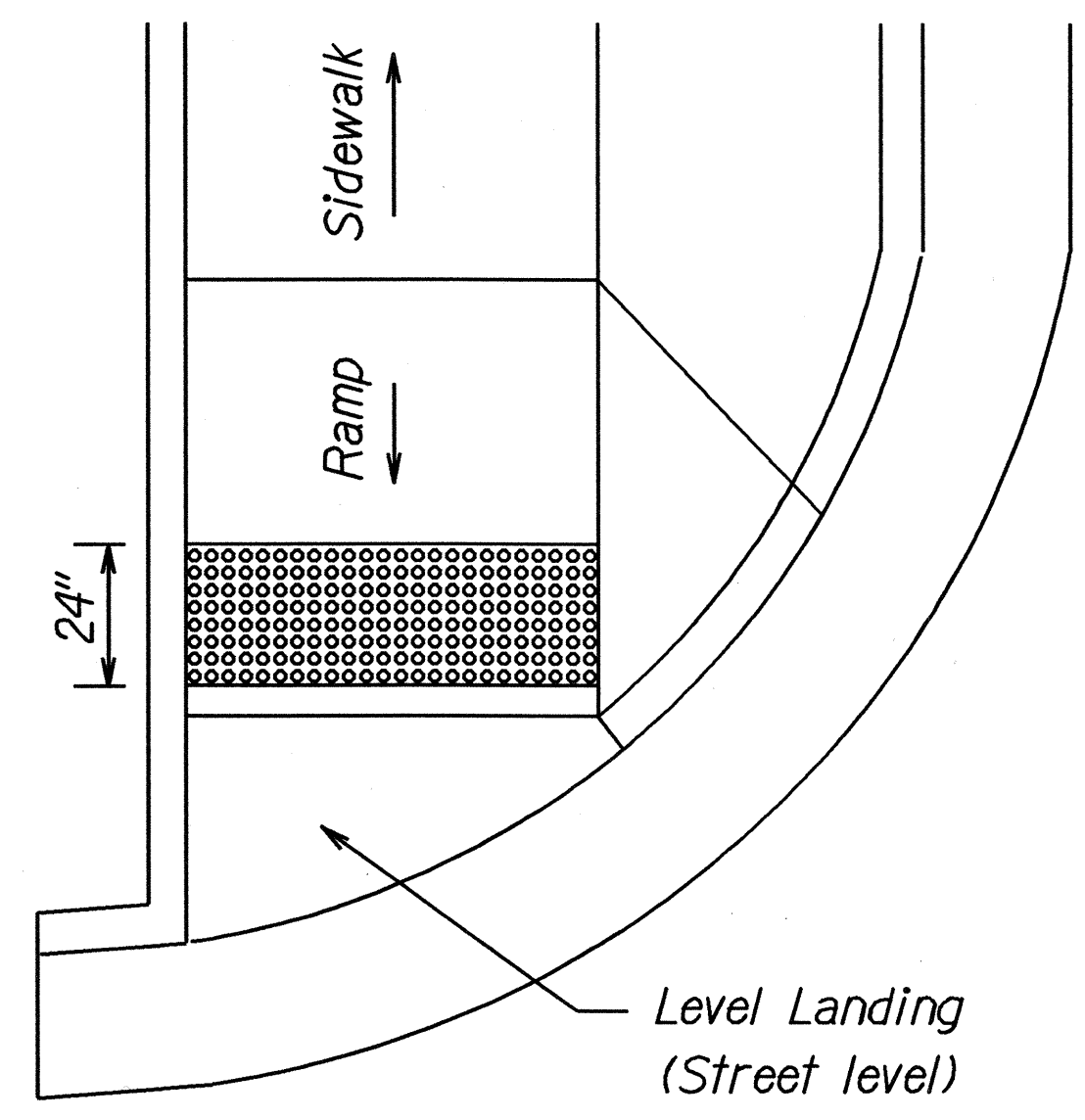
TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH DETECTABLE WARNING



SHARED CURB RAMP WITH DETECTABLE WARNING



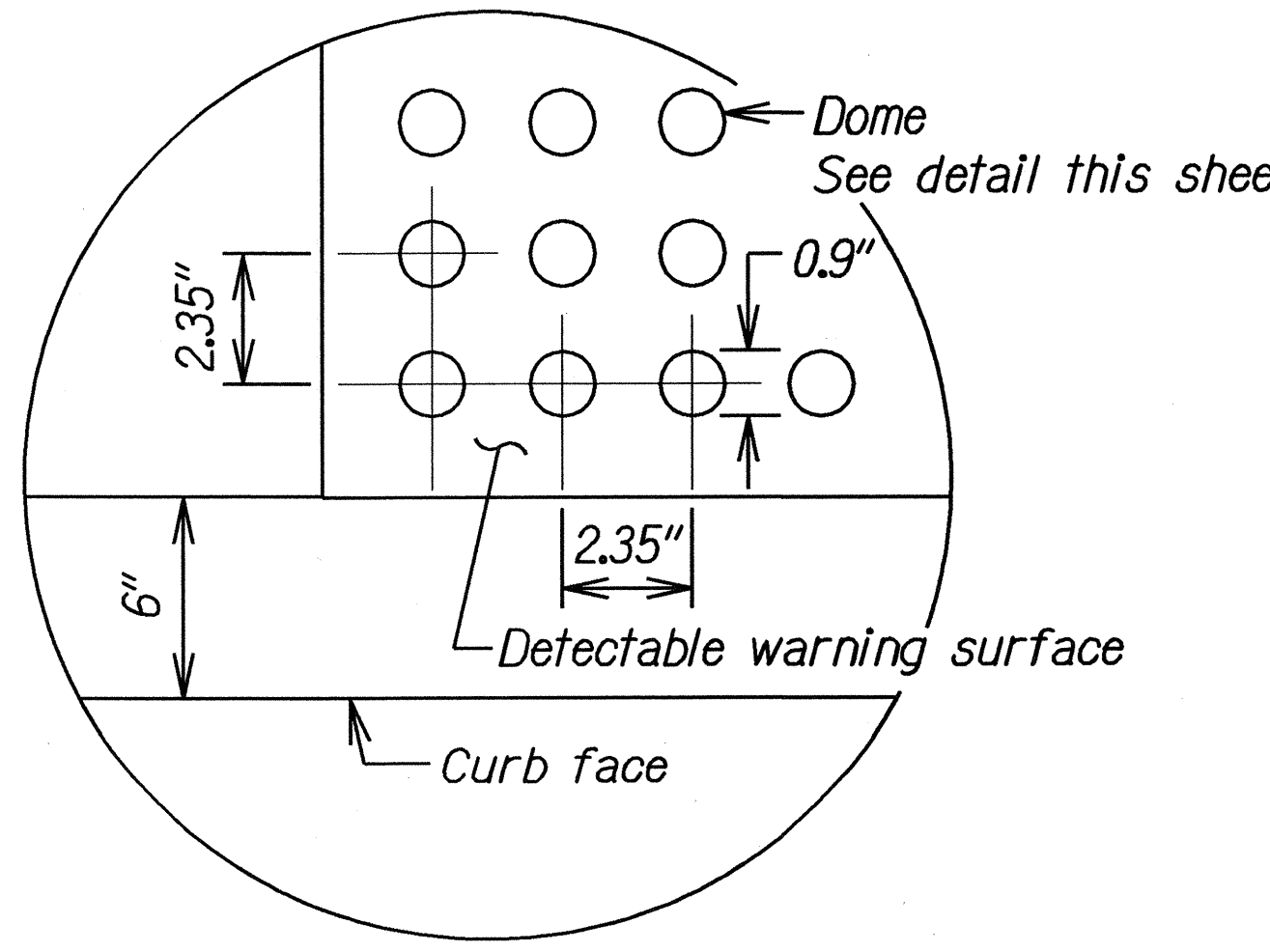
END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

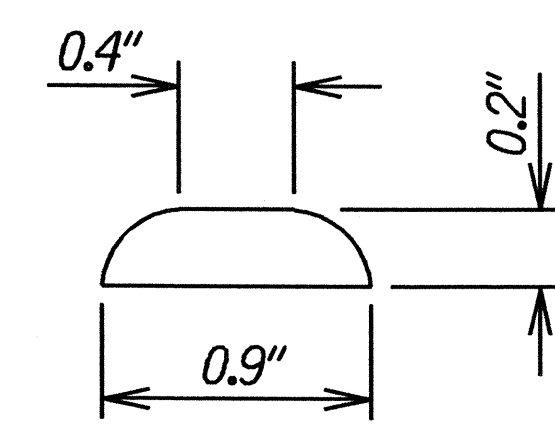
Not to Scale

NOTES:

1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center-to-center spacing of 2.35 inches measured along one side of a square arrangement.
3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
4. There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 inches from the curb line.



ENLARGEMENT



DOME SECTION

DETECTABLE WARNING DETAIL

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETECTABLE WARNING DETAILS

AIEA ACCESS ROAD RESURFACING
MOANALUA ROAD
TO KAMEHAMEHA HIGHWAY
Project No. HWY-0-01-05M

Not to Scale Date: June, 2005

SHEET No. 9 OF 9 SHEETS