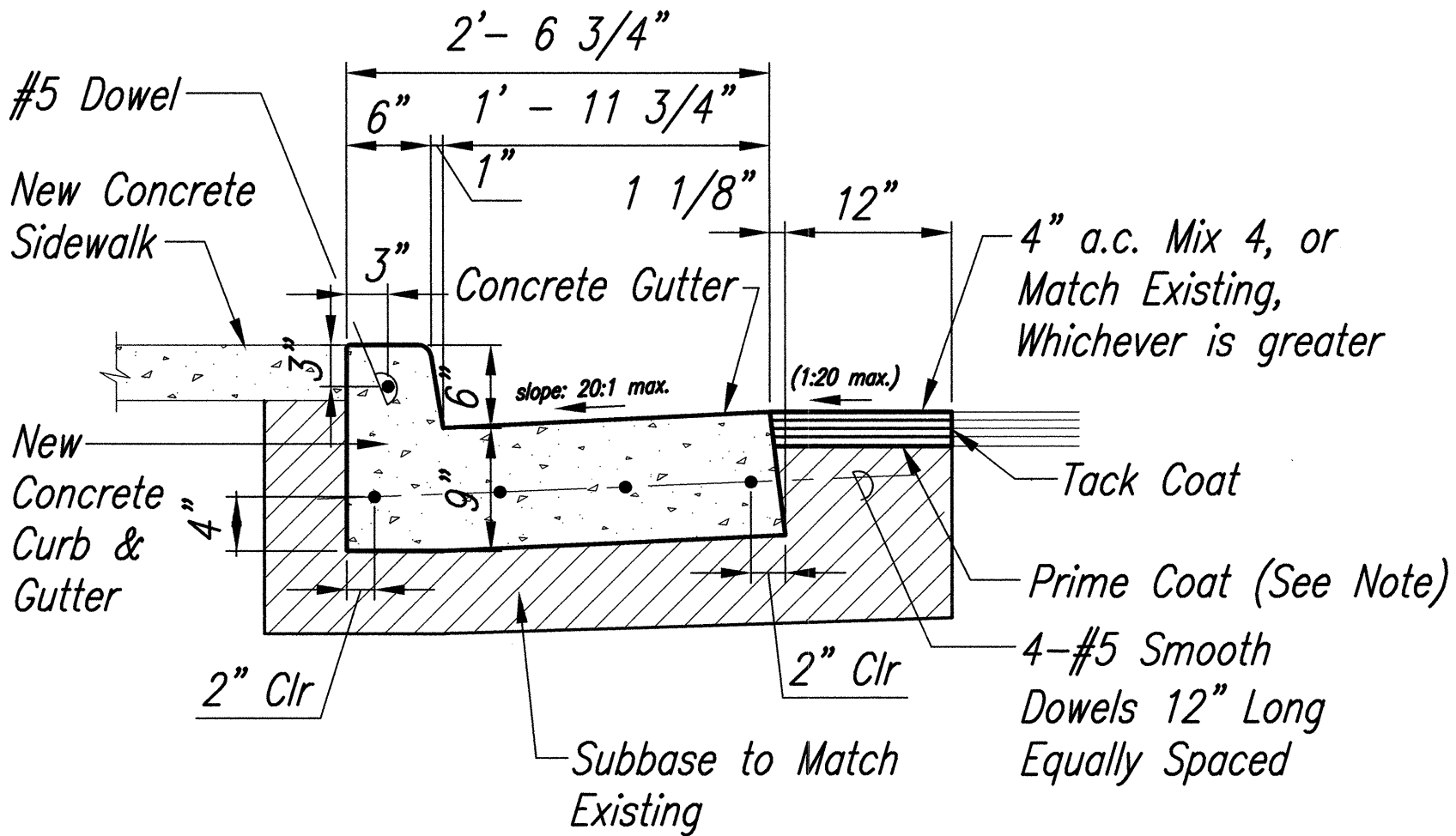
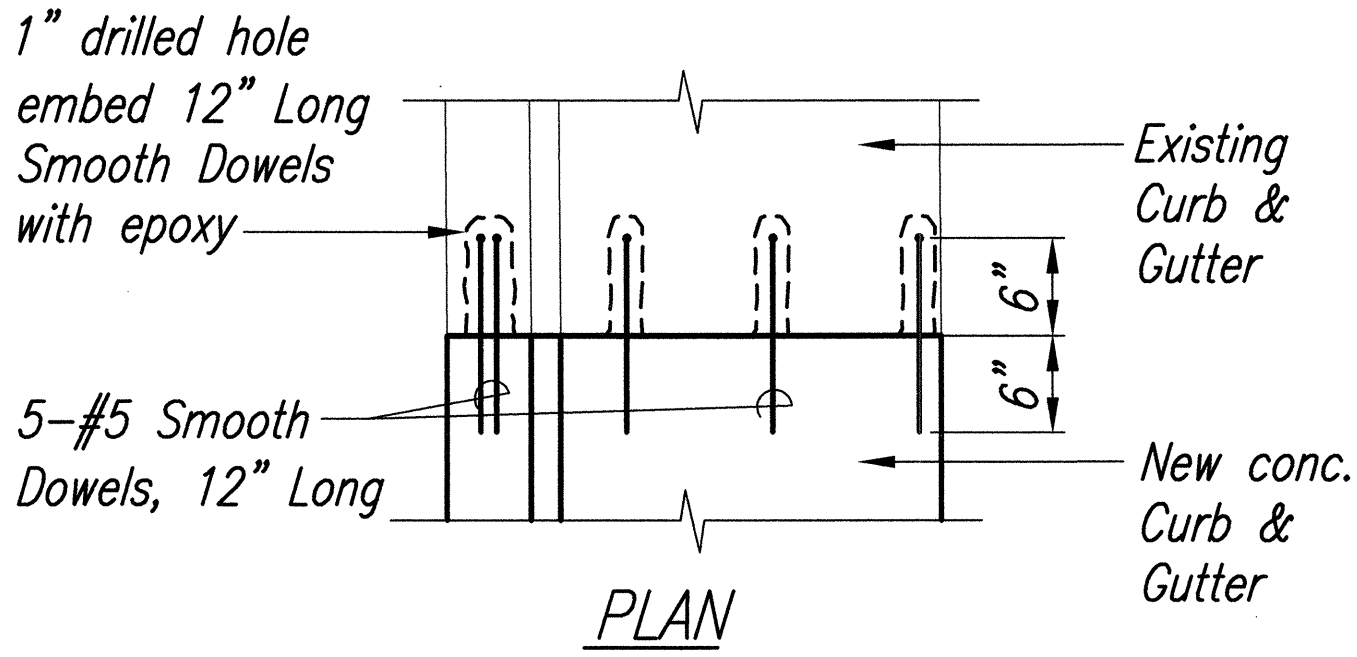


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(41)	2000	24	90

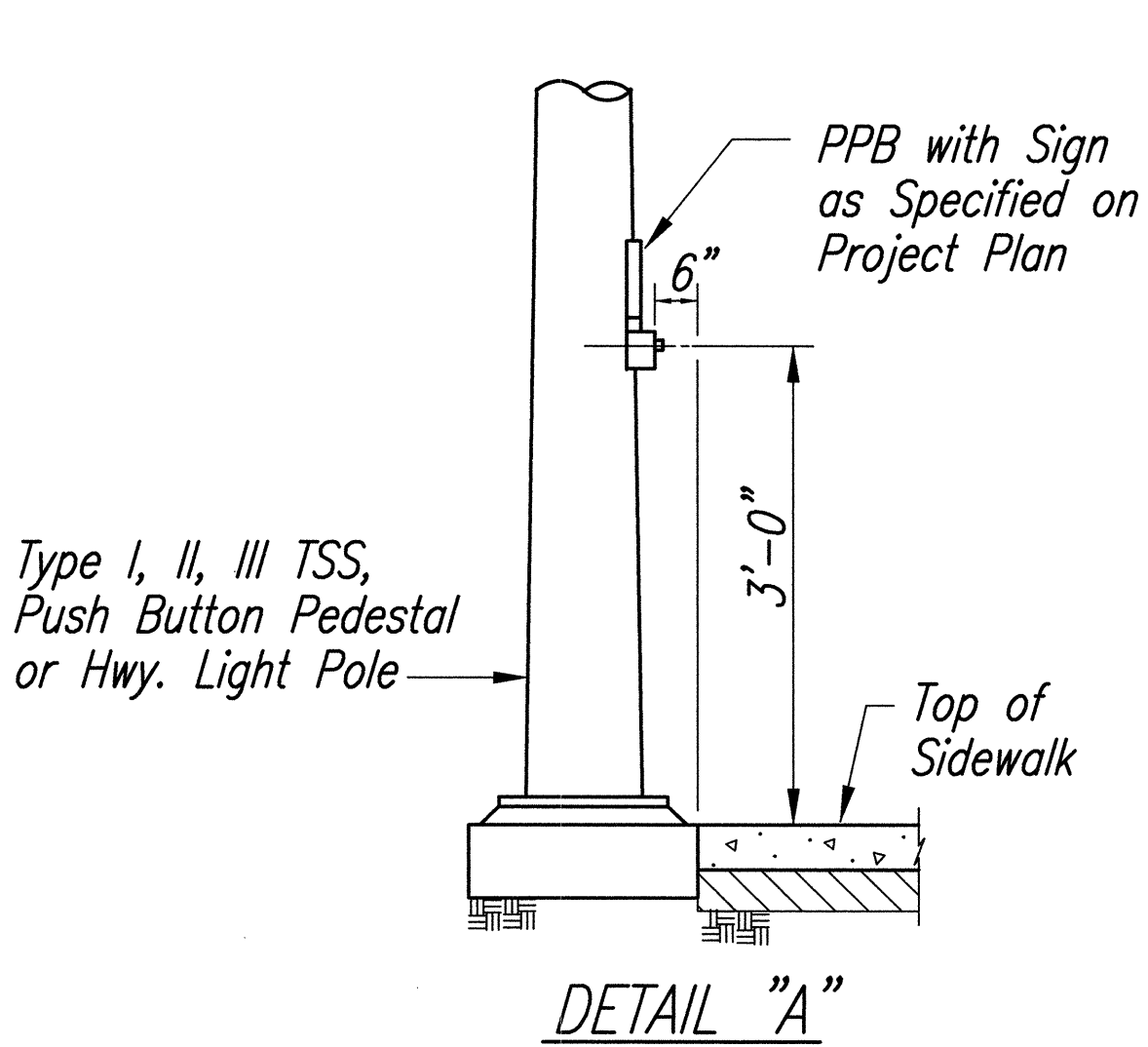
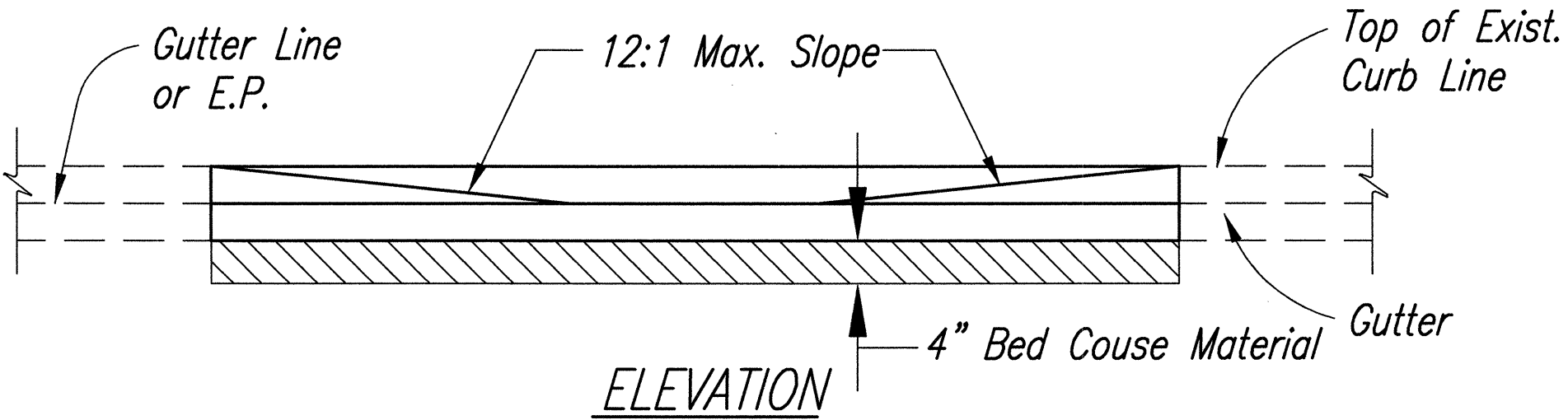
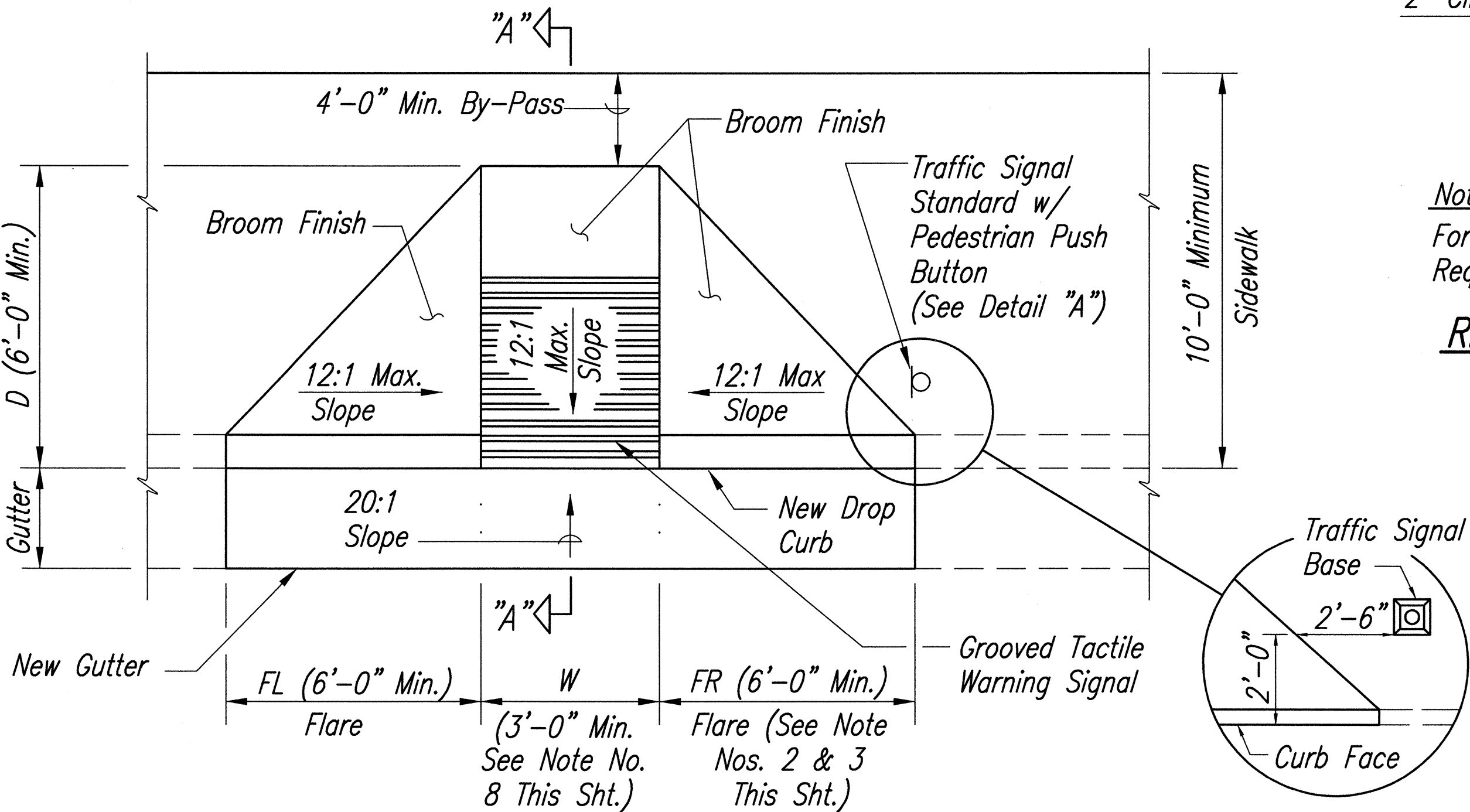
CURB RAMP NOTES: (See Also General Notes, Sht. 27)

- The New Gutter fronting the curb ramps shall not exceed a slope of 20:1. Area without a gutter shall be handled on a case by case basis in order to meet the 20:1 slope requirement.
- The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 to the existing gutter slope.
- When the curb exceeds the standard 6" height, the side flares and ramp may be greater than 6'-0" in order to meet the 12:1 maximum slope requirement.
- Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
- The Contractor shall use the Edge of Pavement (E.P.) fronting the new curb ramp or gutter as the control elevation when constructing the New Curb Ramp or Curb Ramp with gutter.
- For Type "B," "C," & Type "E" Curb Ramps, New Standard Curb shall be 12" wide when installing Type I Traffic Signal Standard (TSS) or Pedestrian Push Button Pedestal (PPB). Where Type II or Type III TSS or Highway Light Pole is utilized, the width of the New Standard Curb shall be determined by the Engineer. For sidewalk less than 4'-0" (excluding curb), an Engineer approved 3'-0" wide minimum curb ramp shall be installed.
- The width of the curb ramp including curbs shall match the width of the sidewalk unless otherwise shown on plans. When the sidewalk width is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp excluding curbs shall be installed.
- The width of the curb ramp run shall be increased to 10'-0" at areas with high pedestrian traffic and as directed by the Engineer or shown on the plans.
- A minimum 3'-0" wide by 5'-0" long (excluding curbs) flat, stable paved surface with a cross slope of 50:1 shall be provided for a parallel approach to the pedestrian push button.
- The pedestrian push button shall meet current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.
- All Pullboxes shall be installed within the sidewalk/unpaved area or as directed by the Engineer. Pullboxes shall not be installed within the curb ramp (including flares).
- All dimensions shall be minimum dimensions shown on the details, unless specifically indicated in the curb ramp tables. (i.e. D, W, W1, W2, W3, FL or FR).



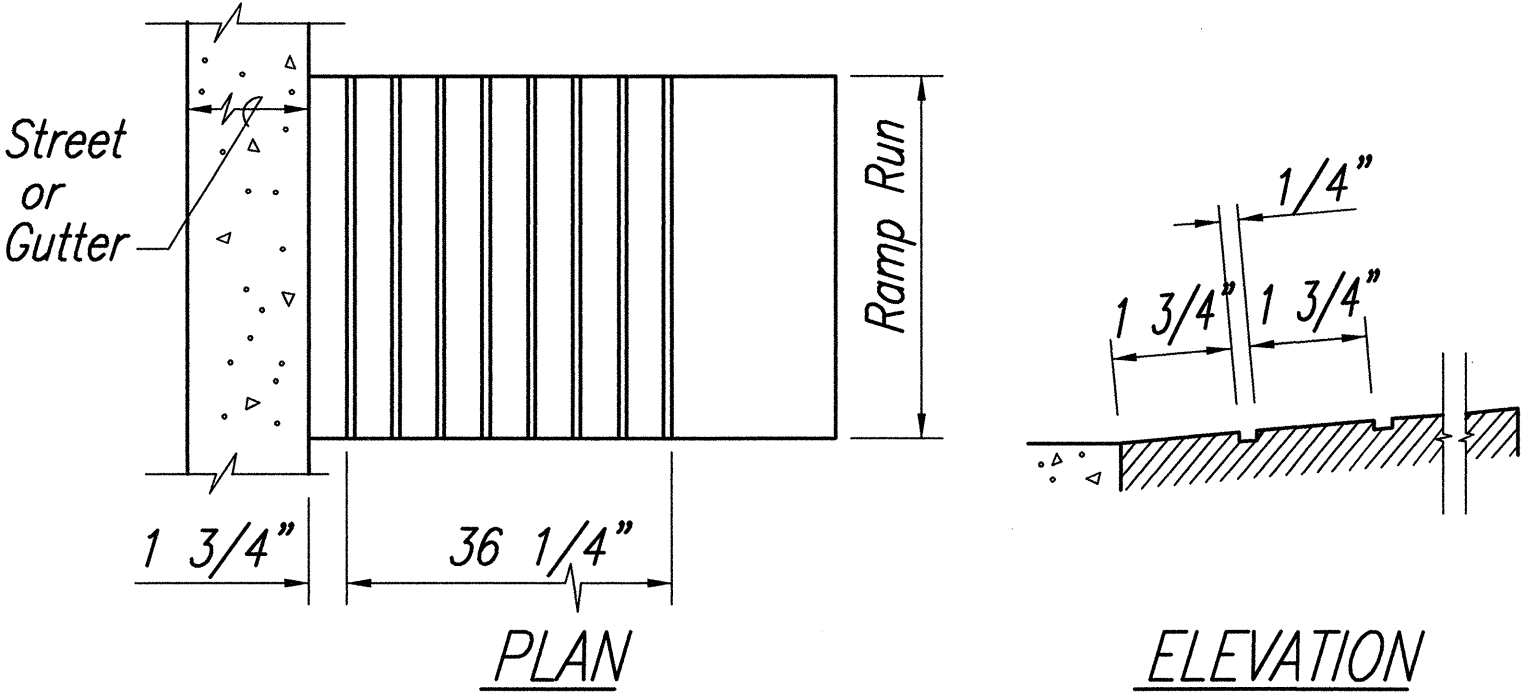
Note:  
For Road Grades 0% to 7.99% and Prime Coat Unavailable, None Required. If Prime Coat Available, Use it.

**RESTORATION OF REINFORCED CURB & GUTTER**  
Not to Scale

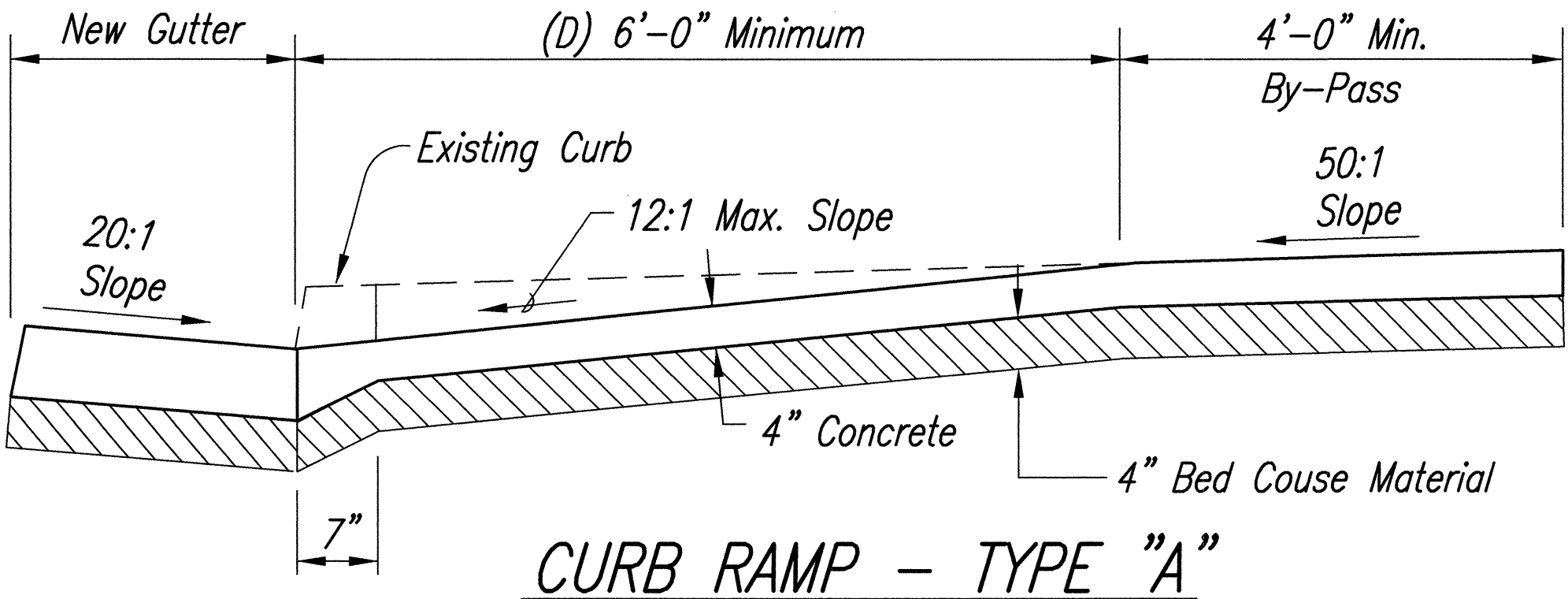


APPROVED:  
M. J. [Signature] 7/29/99  
Chief, Civil Engineering Branch, DPP Date

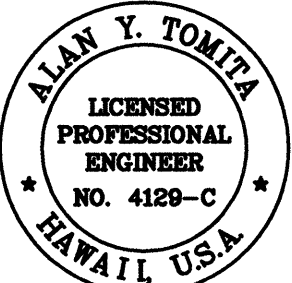
SURVEY PLOTTED BY	DATE
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CHECKED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	



GROVED TACTILE WARNING SIGNAL



CURB RAMP - TYPE "A"



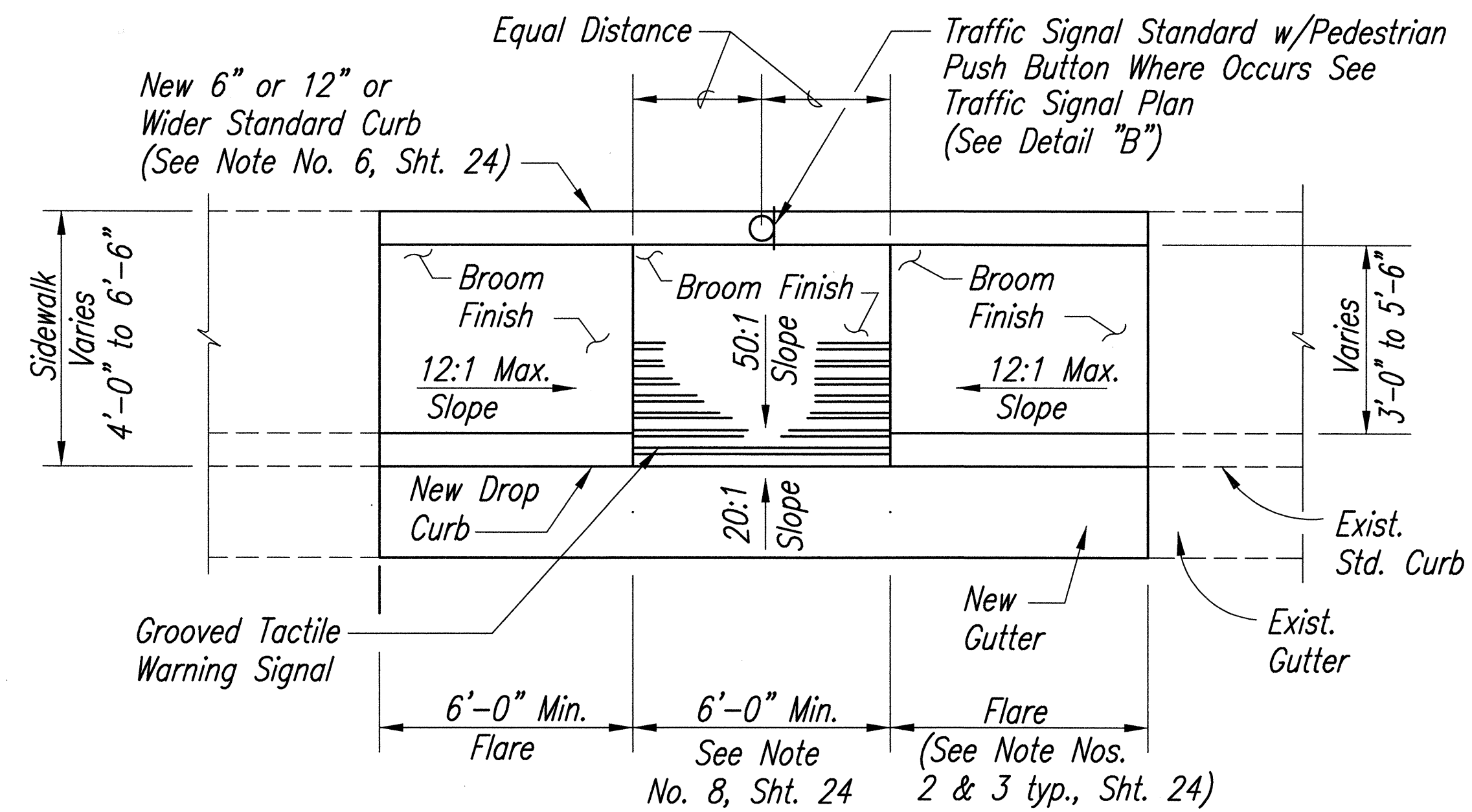
THIS WORK WAS PREPARED BY ME  
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Alan Y. Tomita

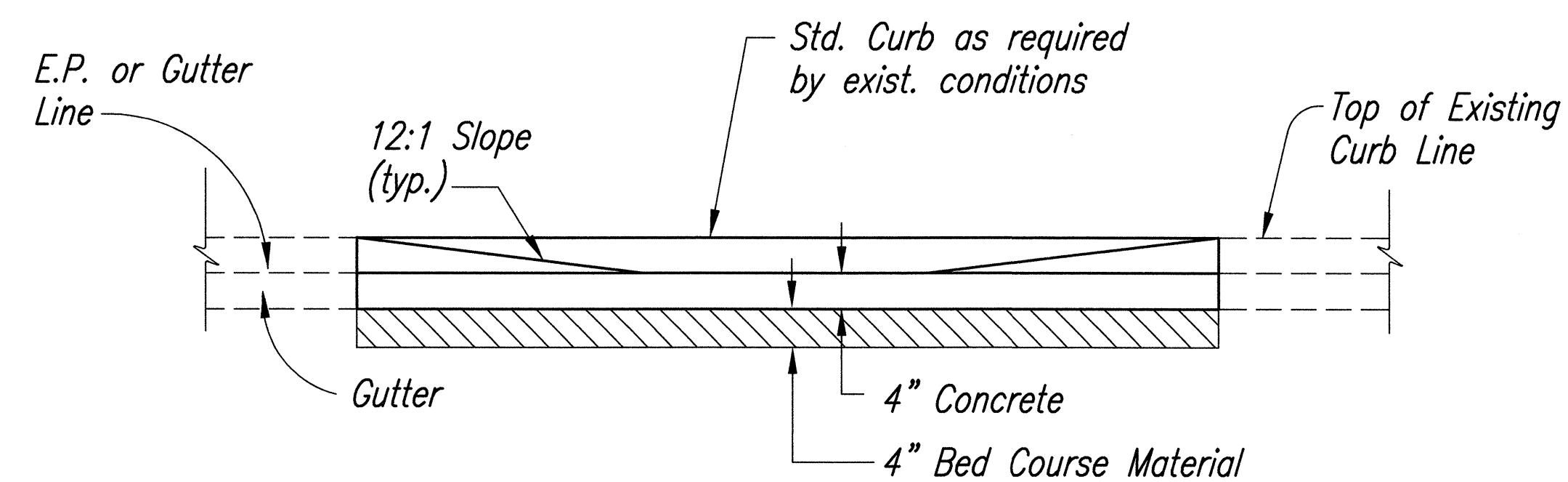
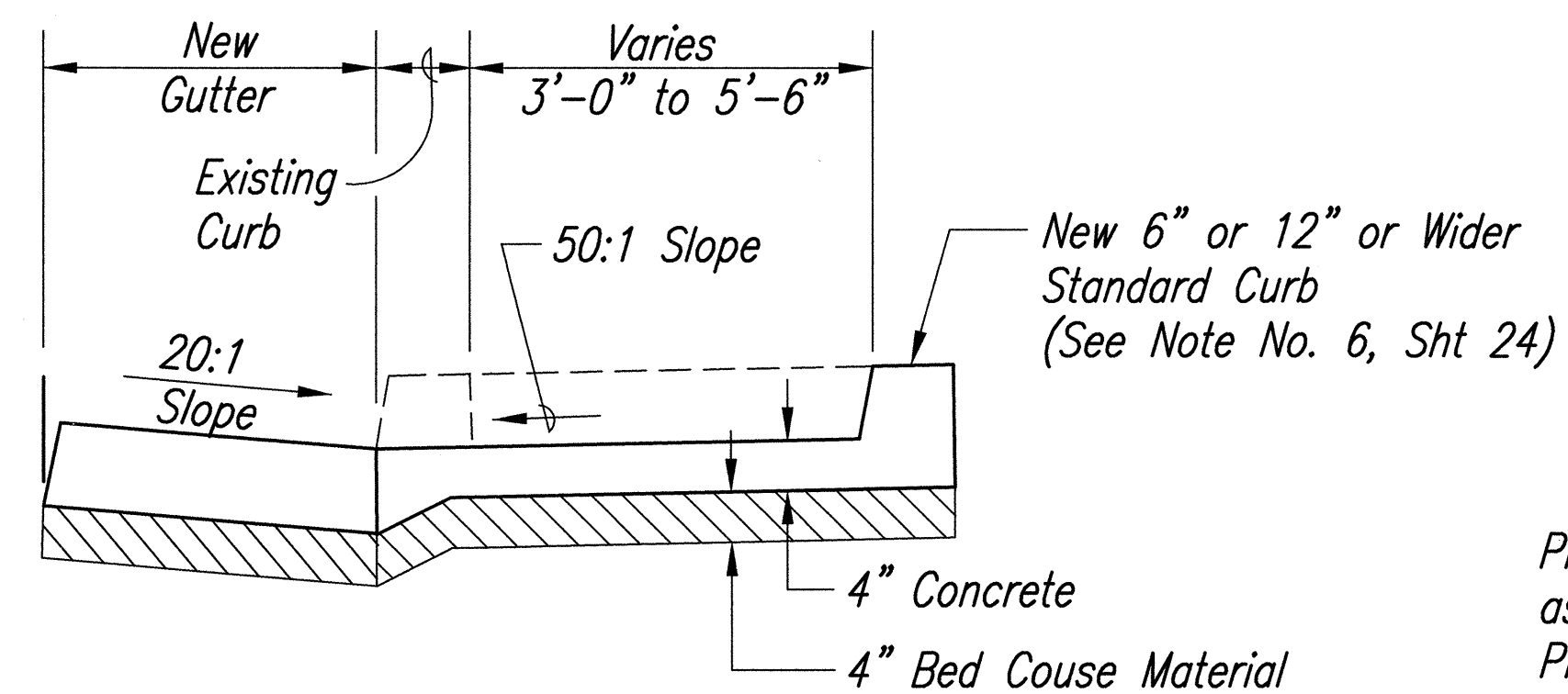
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CURB RAMP DETAIL**  
KAMEHAMEHA HIGHWAY RESURFACING  
Kaneohe Bay Drive to Kahiko Street  
F. A. Project No. NH-083-1(41)  
Scale: Not to Scale Date: June, 1999  
SHEET No. 1 OF 4 SHEETS

24

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(41)	2000	25	90

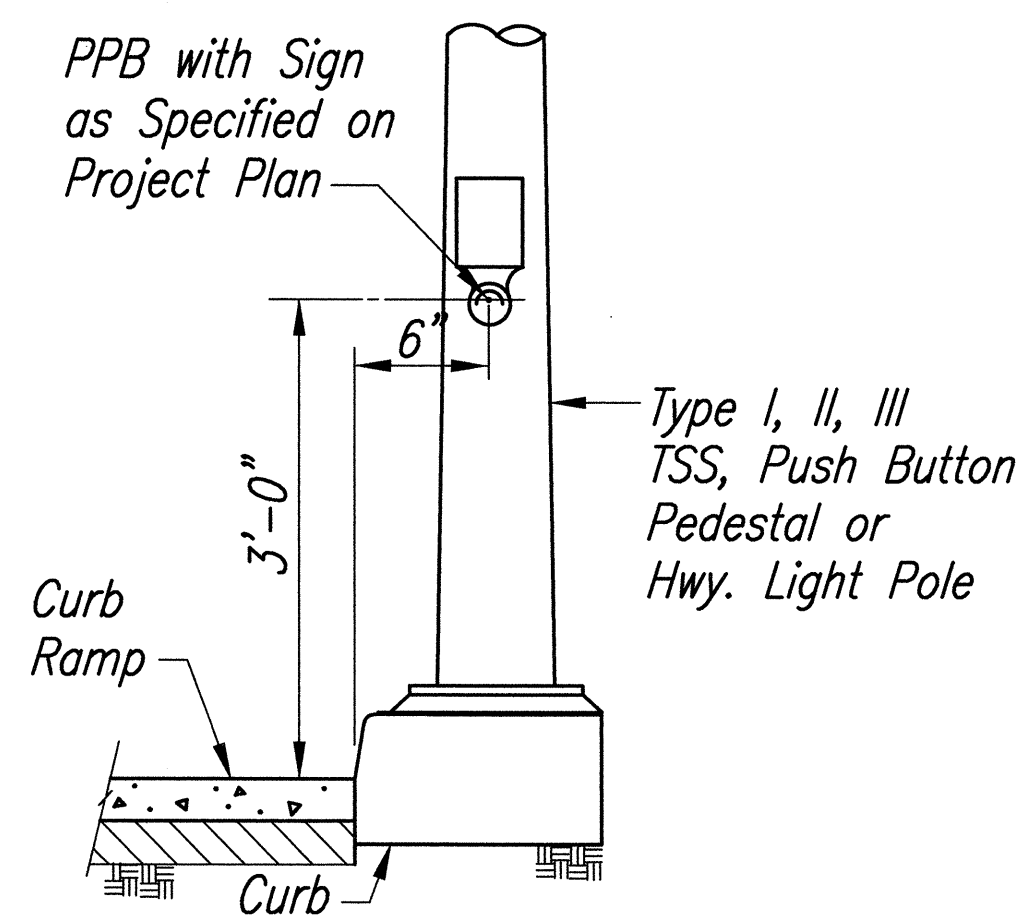


PLAN

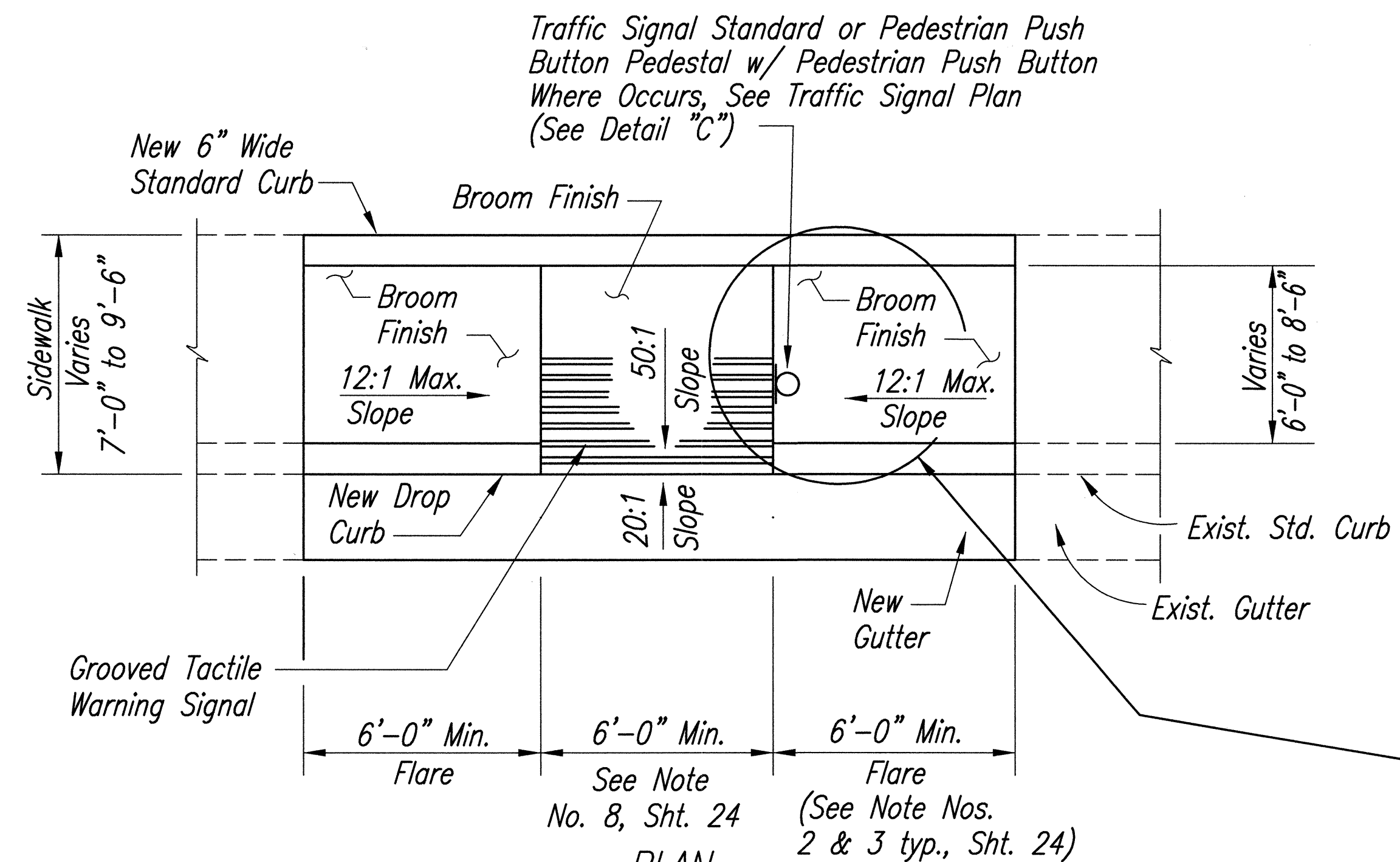
ELEVATION

TYPICAL SECTION

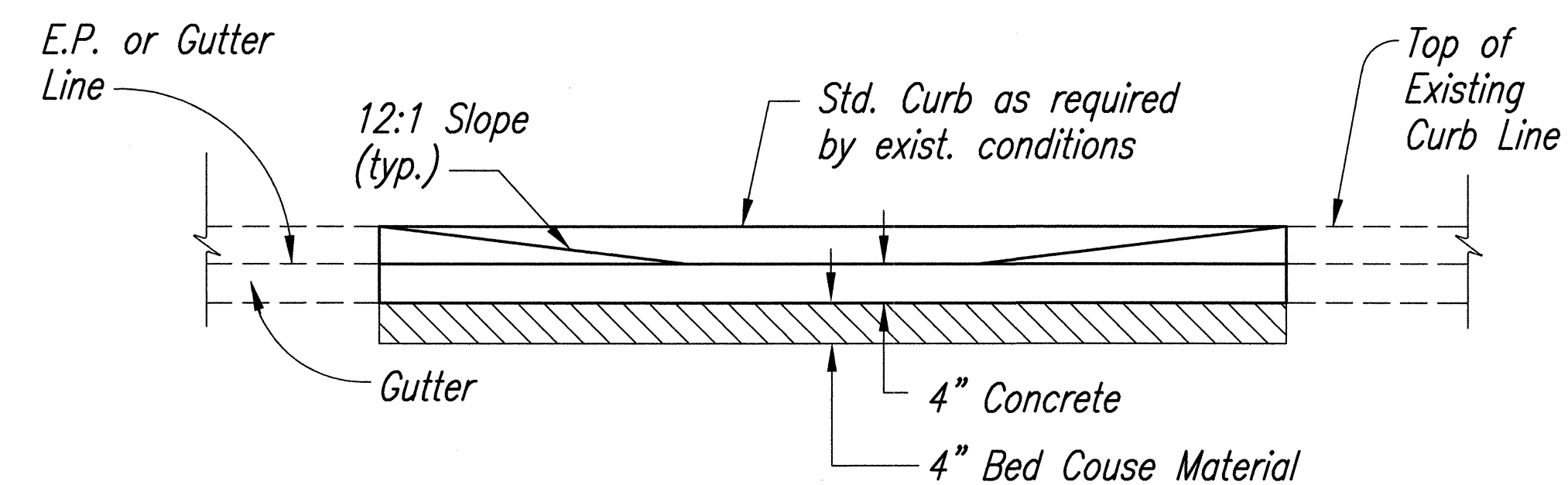
CURB RAMP – TYPE "B"  
SIDEWALK WIDTH 4'-0" OR GREATER  
BUT LESS THAN 7'-0" WIDTH  
(FOR EXISTING SIDEWALK ONLY)



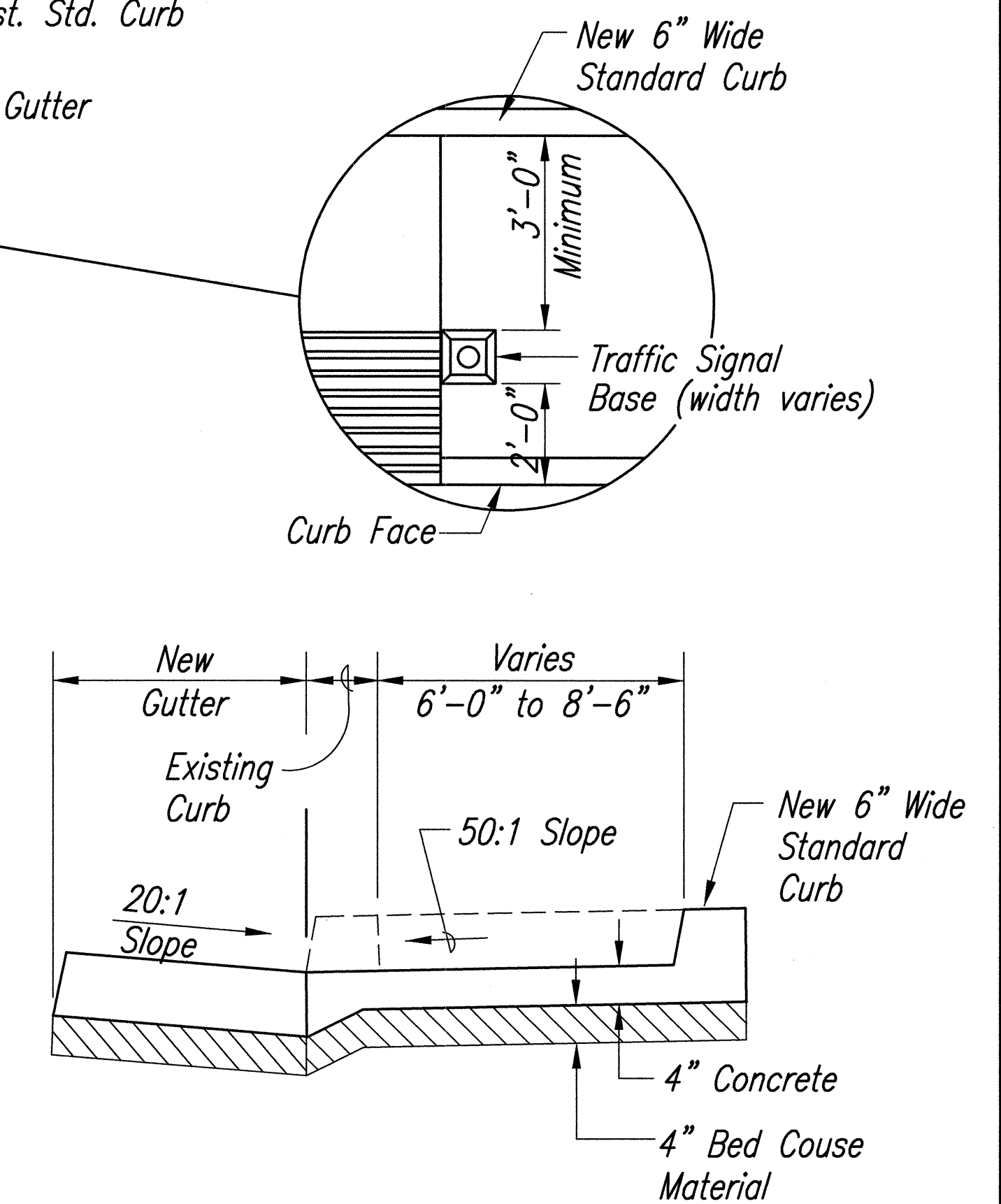
DETAIL "B"



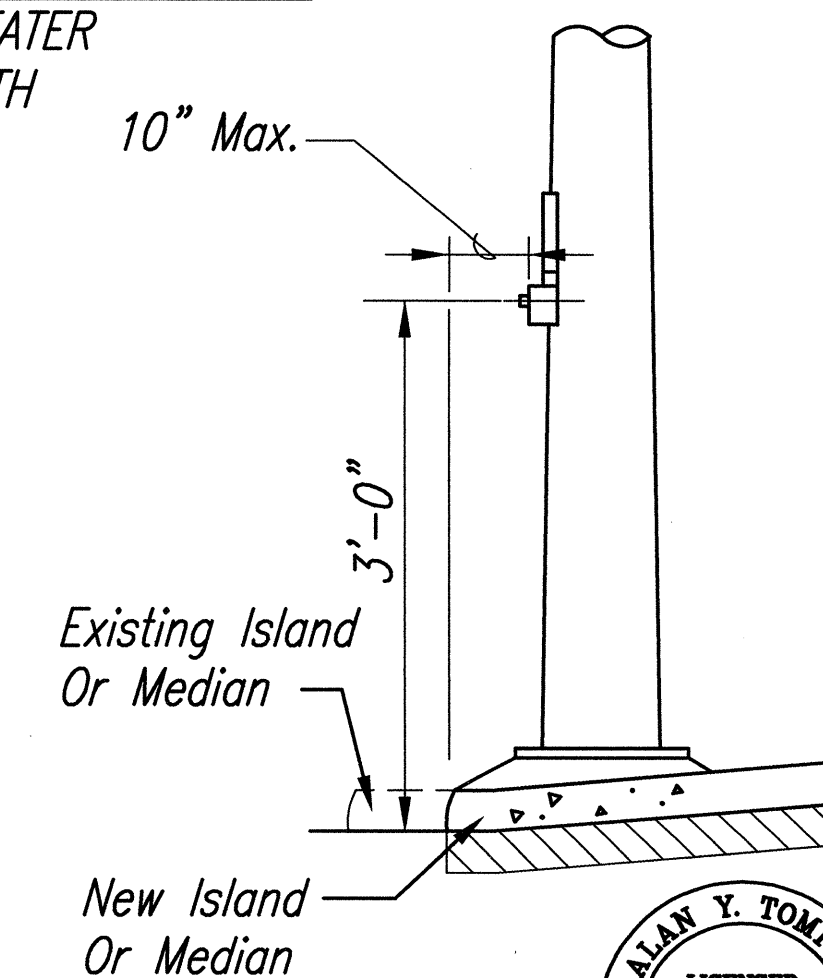
PLAN

ELEVATION

CURB RAMP – TYPE "B" MODIFIED  
SIDEWALK WIDTH 7'-0" OR GREATER  
BUT LESS THAN 10'-0" WIDTH



TYPICAL SECTION



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Alan G. Romila

APPROVED: M. J. [Signature] 7/27/99  
Chief, Civil Engineering Branch, DPP MT Date

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
***CURB RAMP DETAIL***

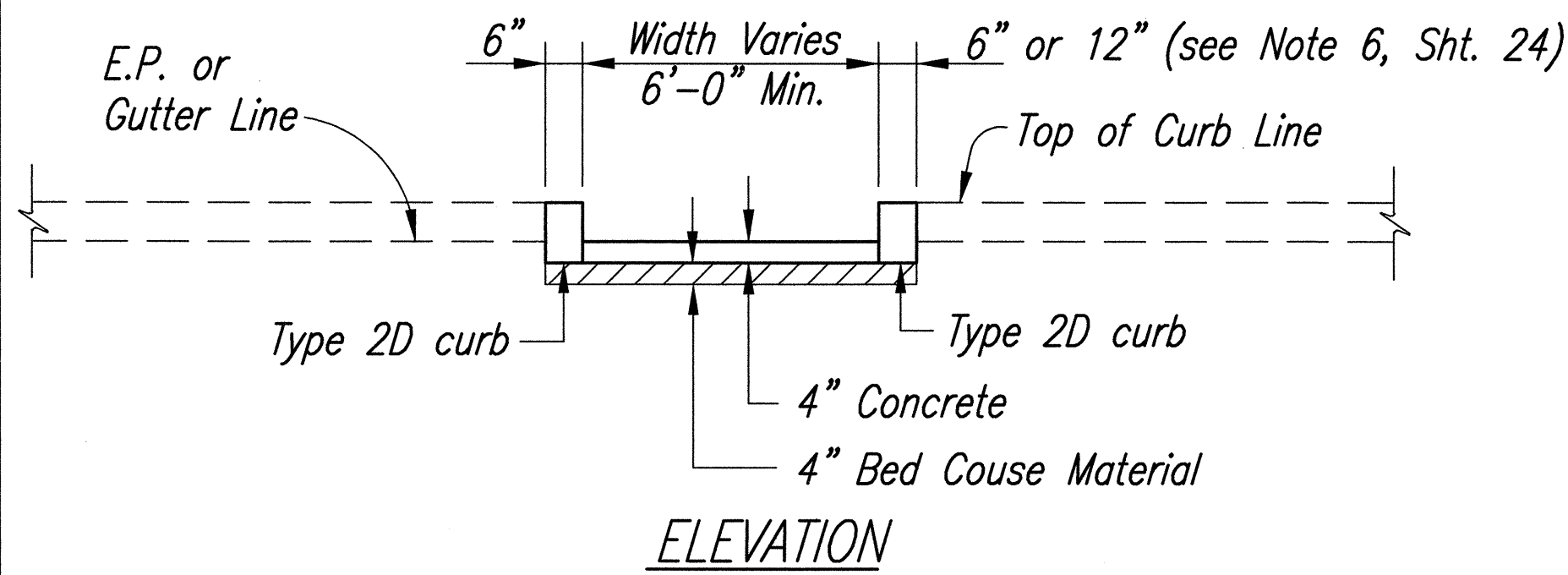
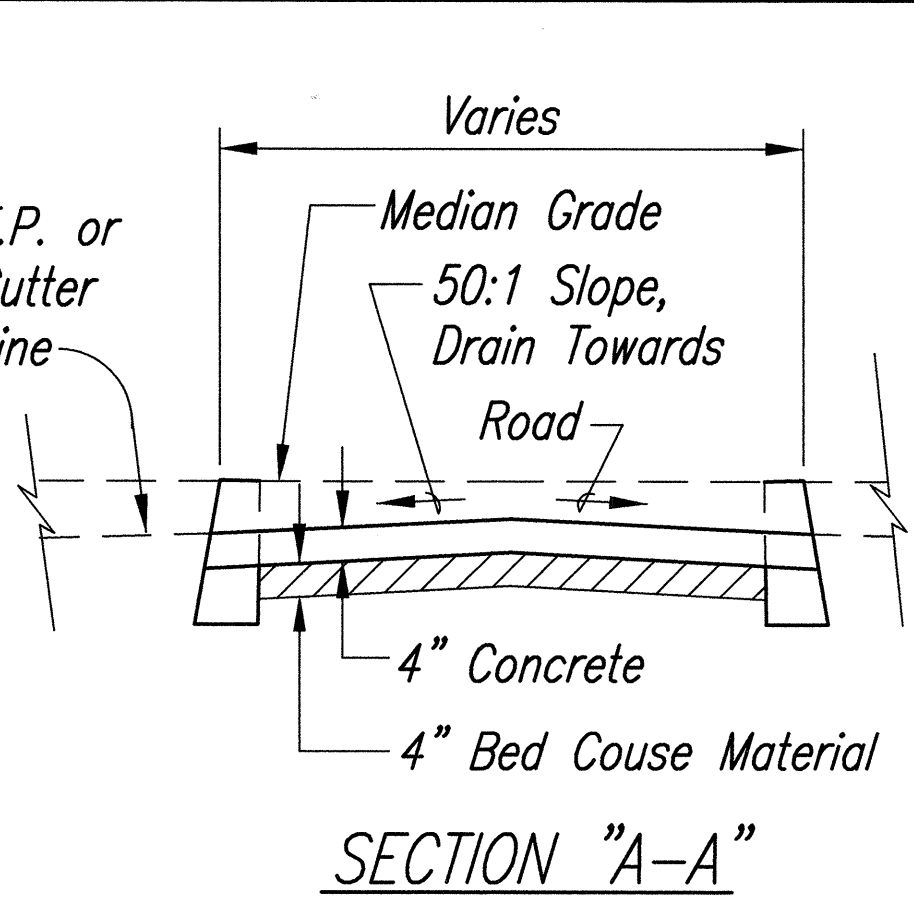
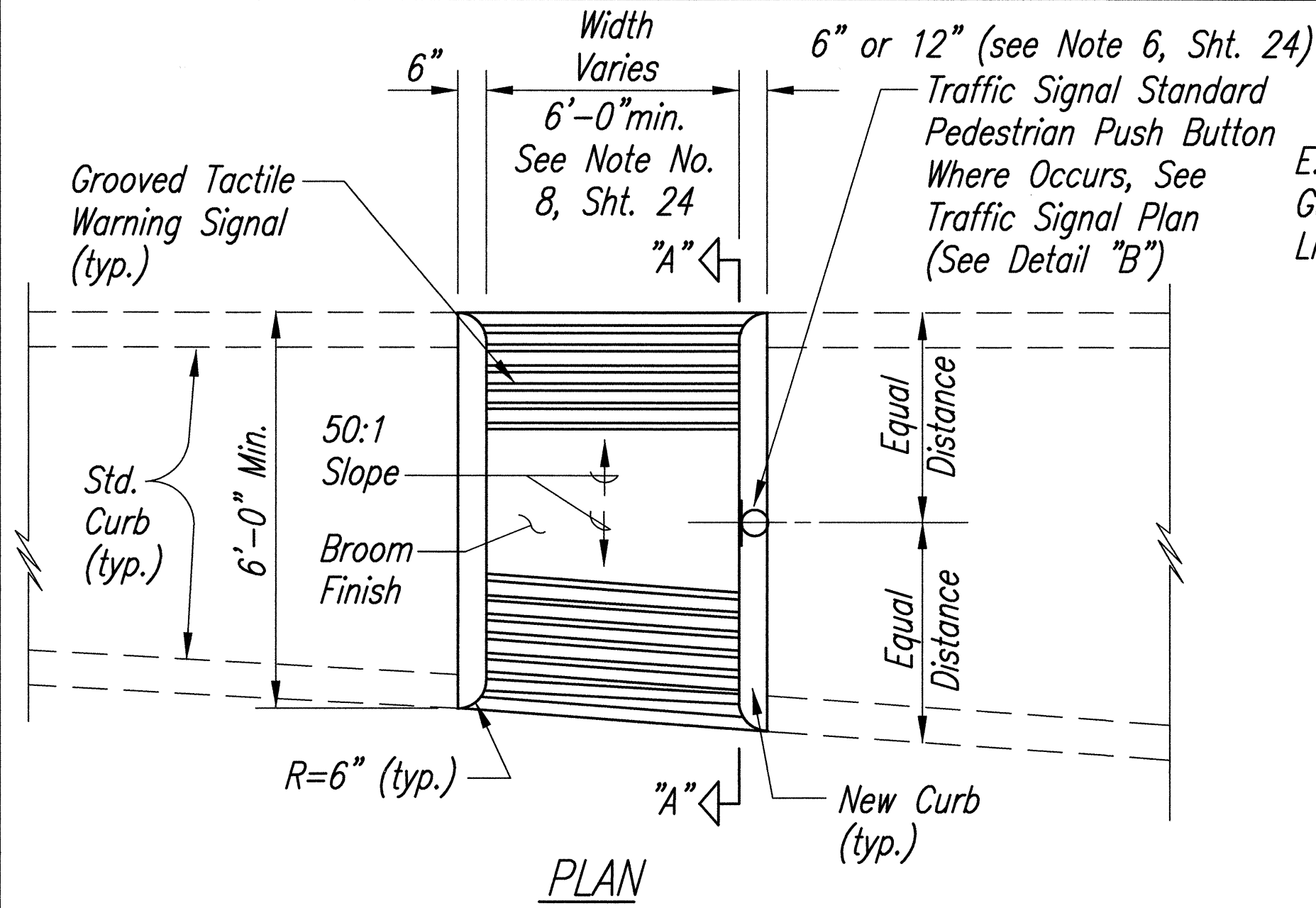
KAMEHAMEHA HIGHWAY RESURFACING  
Kaneohe Bay Drive to Kahiko Street  
F. A. Project No. NH-083-1(41)

Scale: As Shown Date: June, 1999

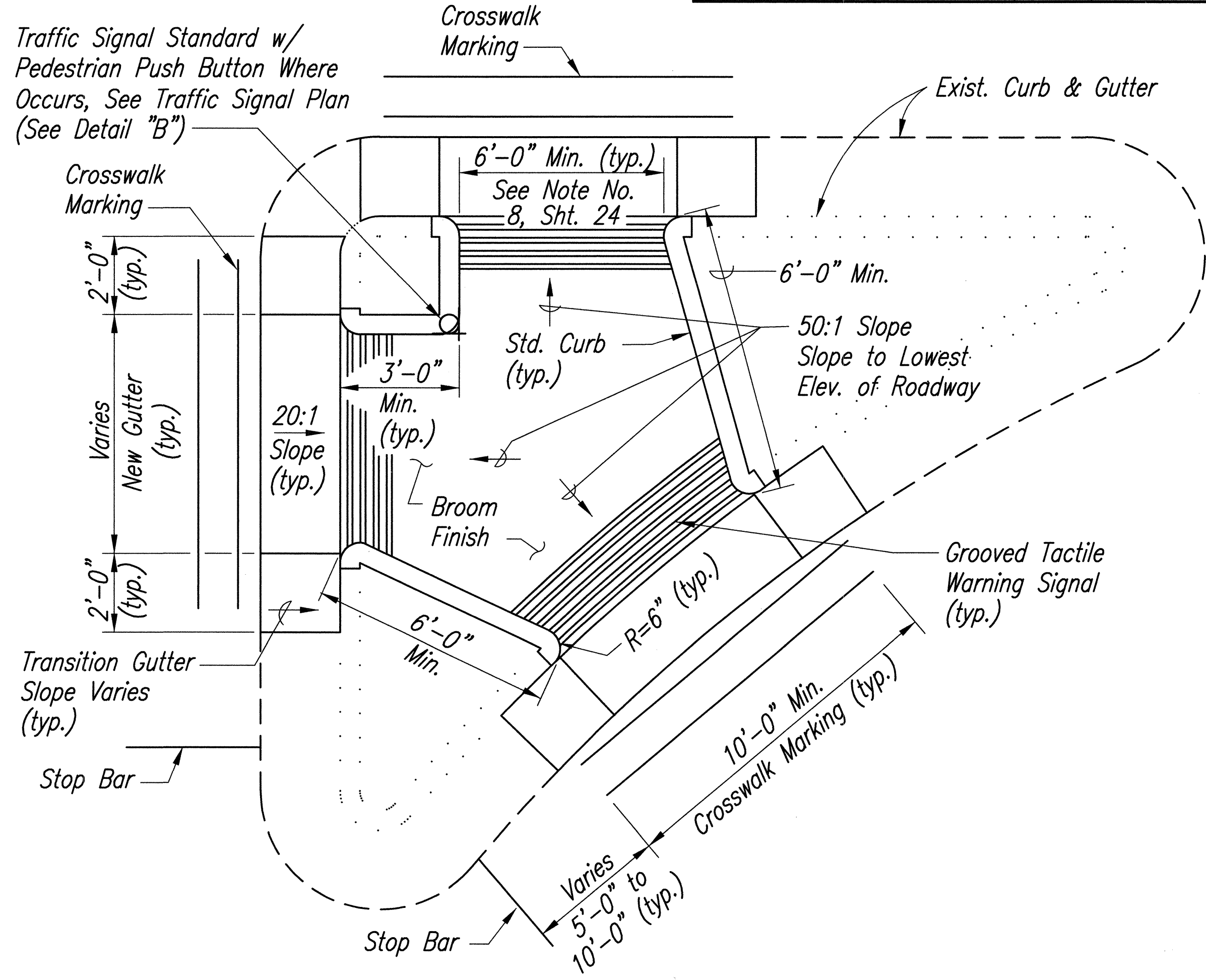
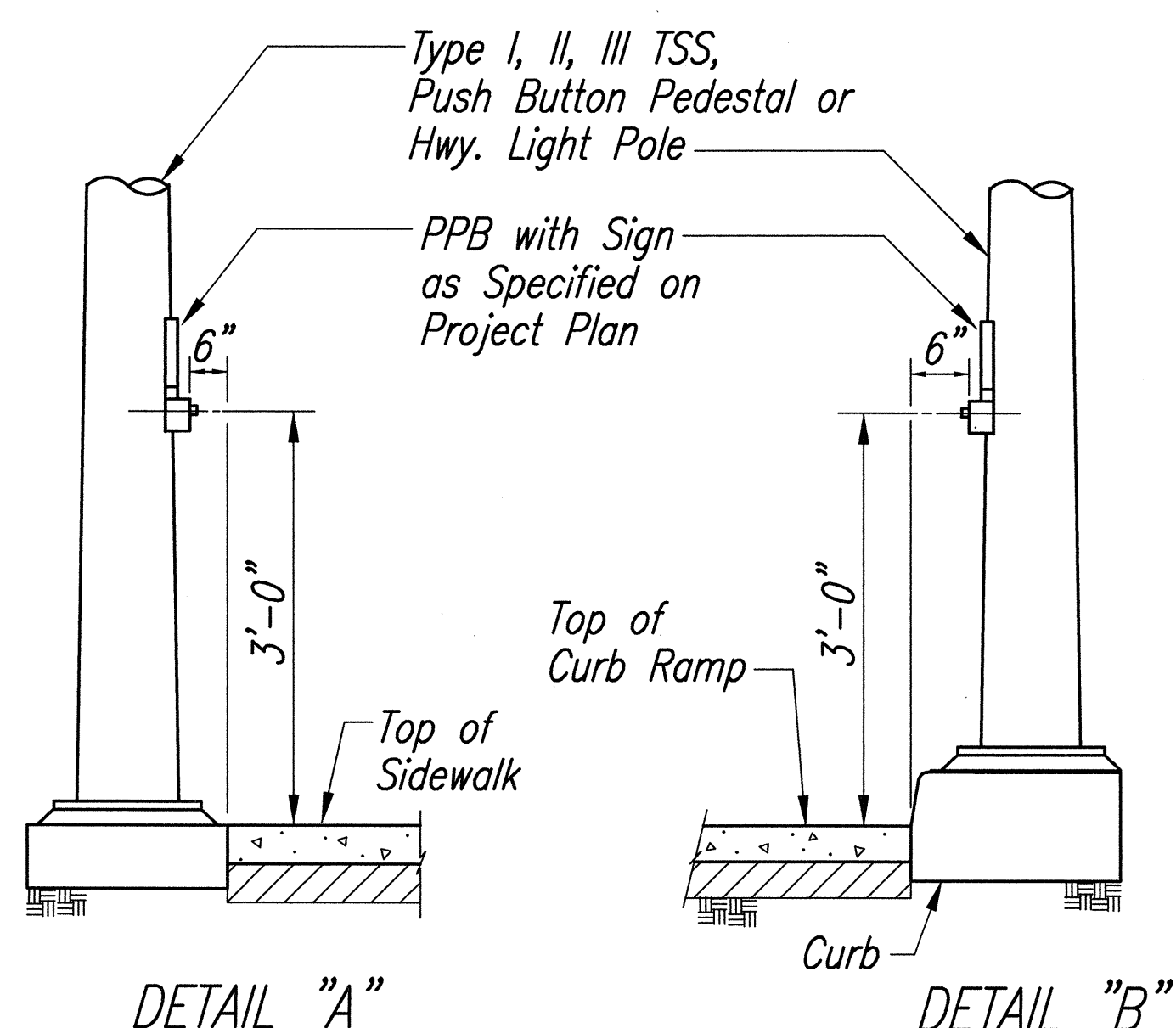
SHEET No. 2 OF 4 SHEETS



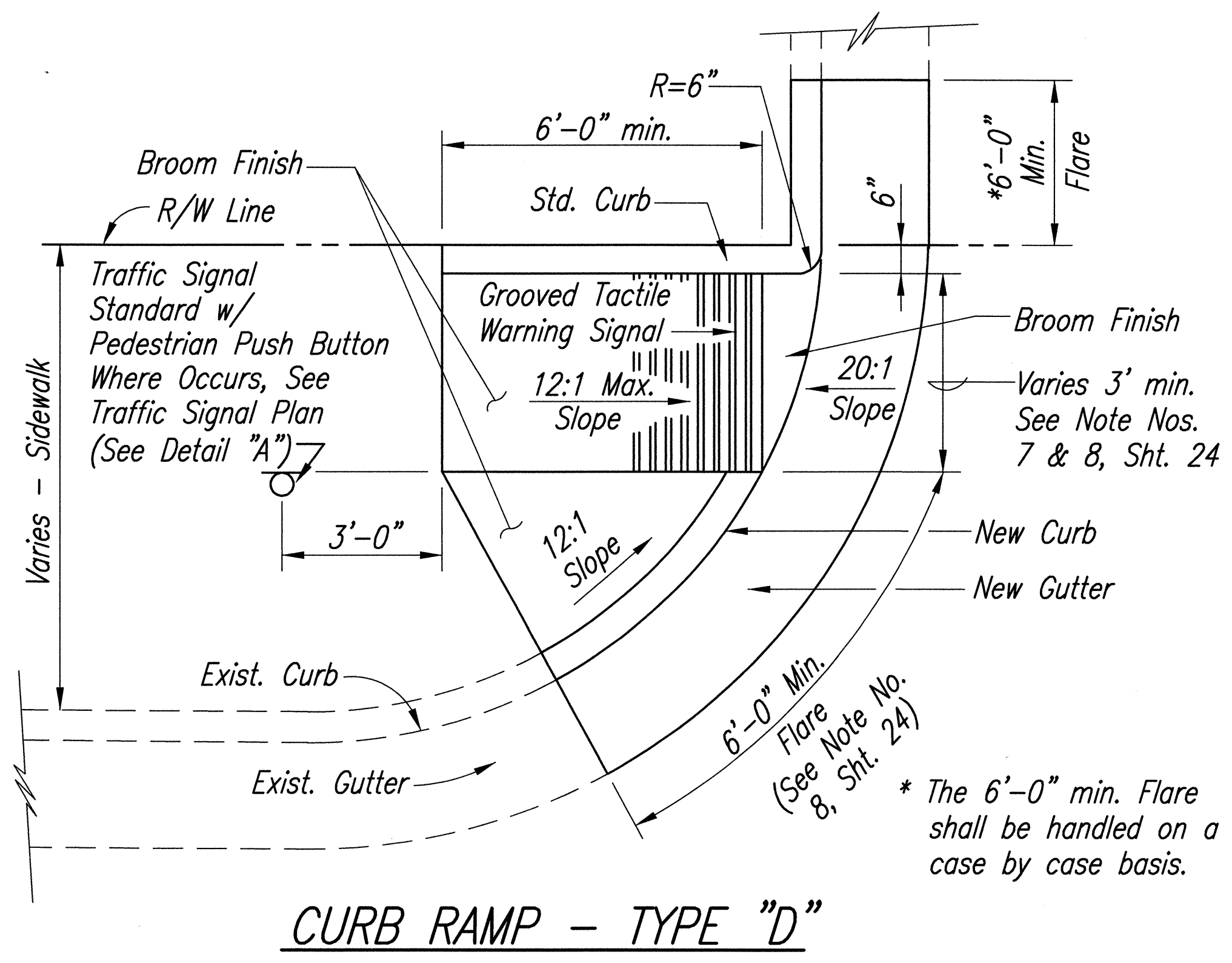
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(41)	2000	26	90



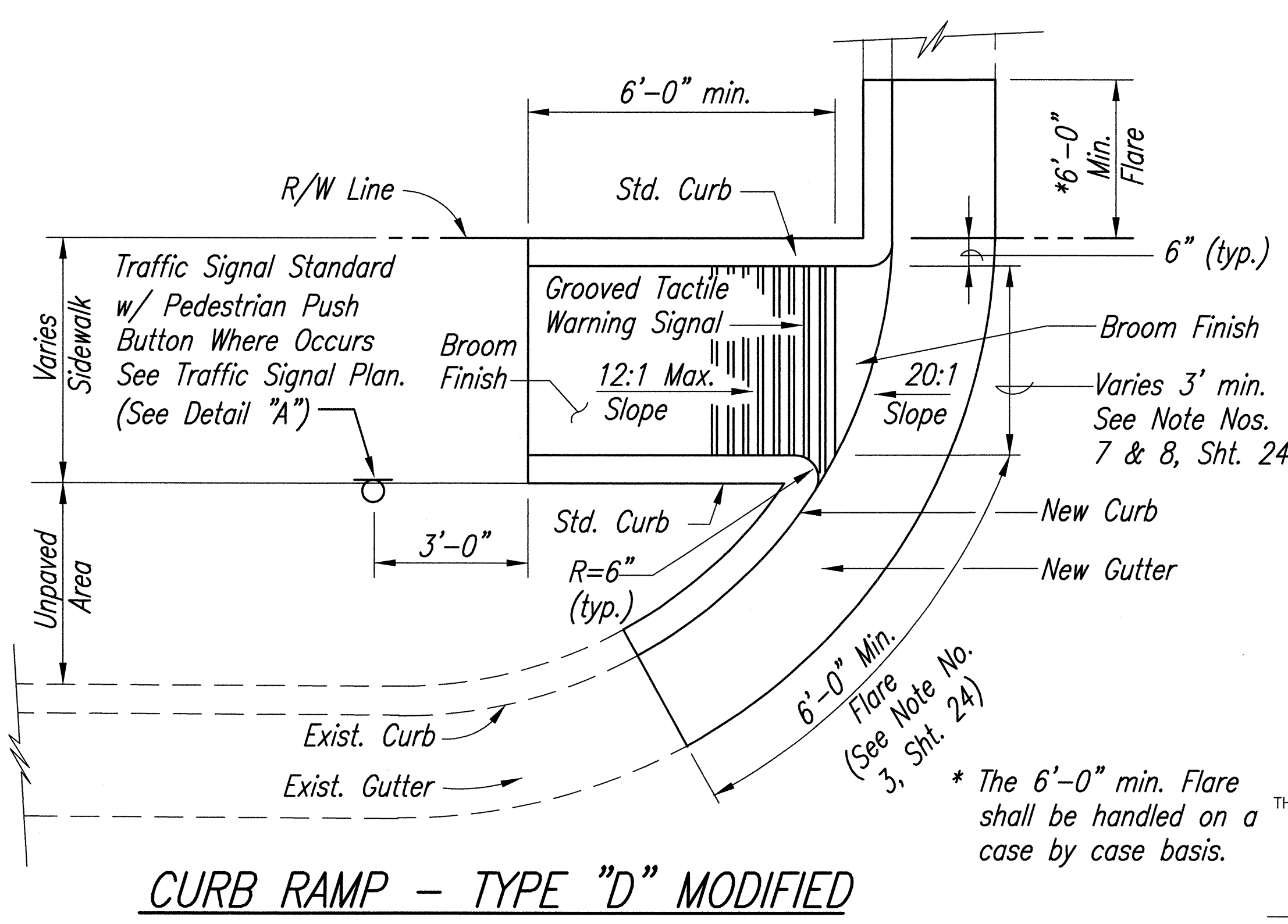
**CURB RAMP - TYPE "C"**  
USE AT MEDIAN CROSSINGS, ISLANDS



**CURB RAMP - TYPE "C" MODIFIED**

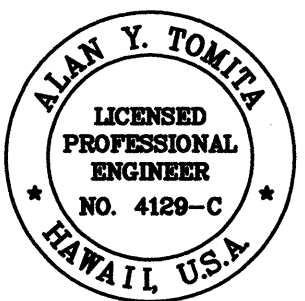


**CURB RAMP - TYPE "D"**



**CURB RAMP - TYPE "D" MODIFIED**

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



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Alan Y. Tomita

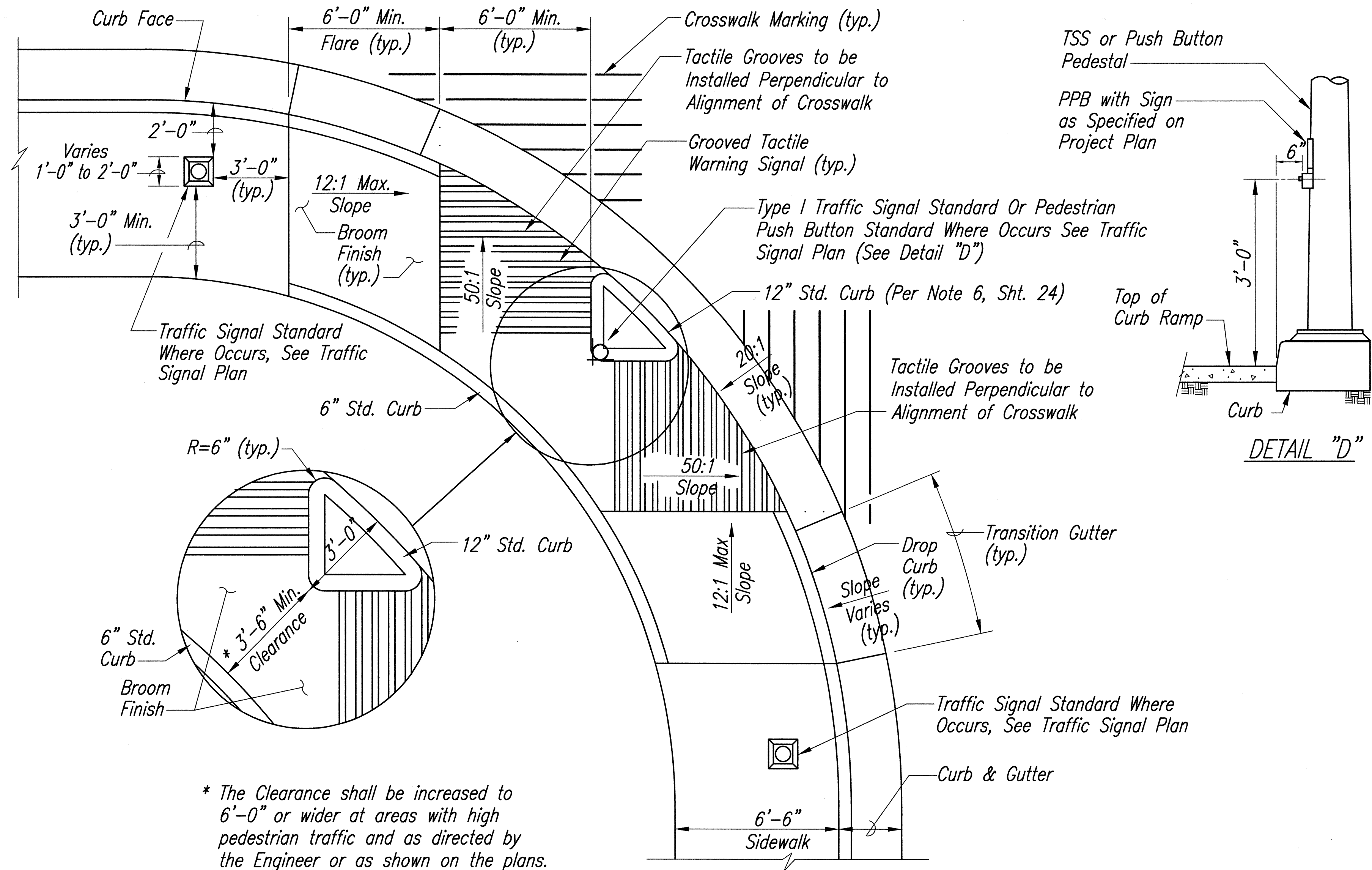
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAIL**

KAMEHAMEHA HIGHWAY RESURFACING  
Kaneohe Bay Drive to Kahiko Street  
F. A. Project No. NH-083-1(41)

Scale: As Shown  
Date: June, 1999

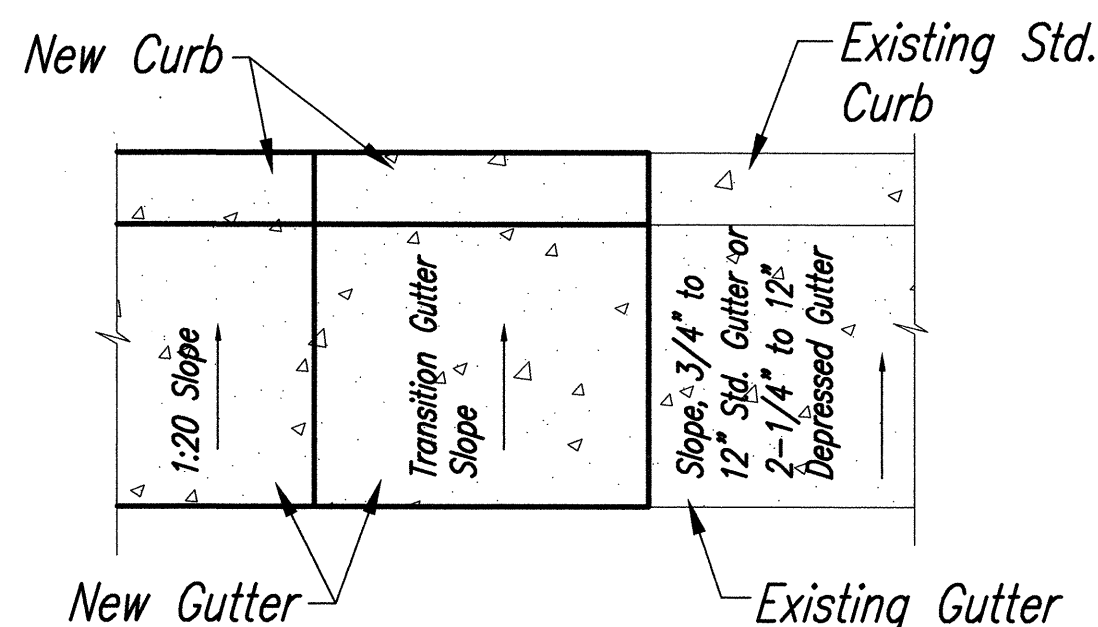
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(41)	2000	27	90



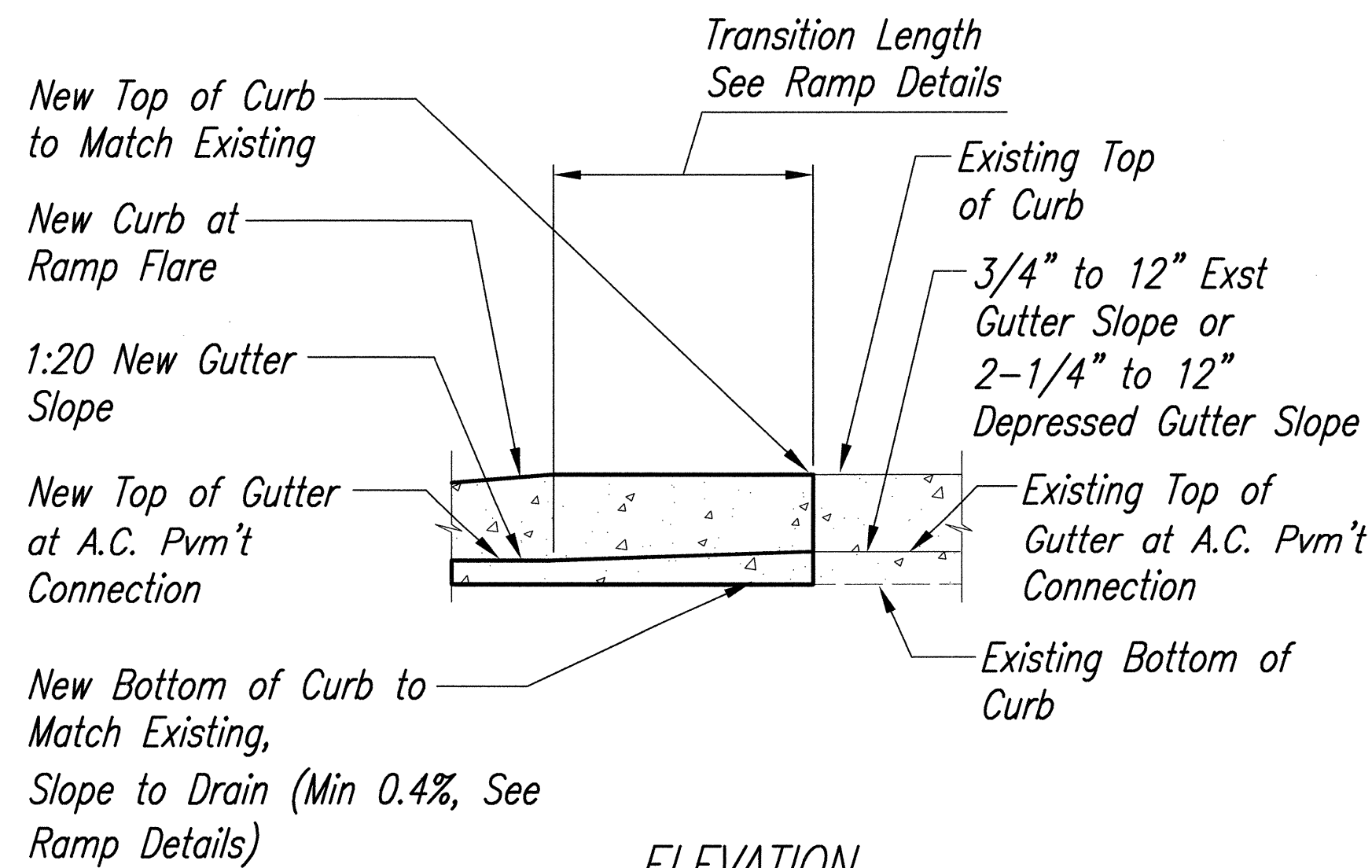
\* The Clearance shall be increased to 6'-0" or wider at areas with high pedestrian traffic and as directed by the Engineer or as shown on the plans.

### CURB RAMP - TYPE "E"

SIDEWALK WIDTH 6'-6" OR GREATER  
EXCLUDING CURB  
(FOR EXISTING SIDEWALK ONLY)



PLAN



ELEVATION

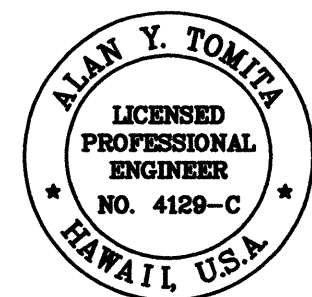
### GUTTER TRANSITION DETAIL

Not to Scale

### GENERAL NOTES:

- When necessitated by existing physical conditions, alternate curb ramps may be used subject to Engineer's approval.
- Subject to field conditions, the Engineer shall determine final location of curb ramp.
- Where necessary, existing pullboxes, handholes, manholes, etc. shall be adjusted to match curb ramp grade. Except for adjustments to utility pullboxes, handholes and manholes, adjustments shall not be paid for separately but shall be considered incidental.
- All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb for pedestrian circulation).
- Narrow sidewalk (3'-0" min. width excluding curb) will prohibit the installation of any sign posts, utility poles, fire hydrants, traffic signal standards, light poles, etc. in the sidewalk, which will prevent a 3'-0" wide clear zone for pedestrian circulation. Also, narrow sidewalks shall require a minimum 6'-0" wide, excluding curbs, by 10'-09" long passing space at intervals not to exceed 200 feet.
- For new construction, the minimum sidewalk width shall be 6'-6", excluding curbs at signalized intersections and the cross slope shall not exceed 50:1. Sidewalk width may be decreased to 6'-0" excluding curbs at non-signalized intersection. For high pedestrian traffic the width shall be a minimum of 12'-0" and/or determined by the Engineer.
- If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of-way.
- Single curb ramps serving two street crossing directions is prohibited in new construction, unless otherwise shown.
- New curb ramps shall be installed at 90° to the sidewalk or to the maximum extent feasible.
- Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the current American with Disabilities Act (ADA) Accessibility guidelines and will be subject to Engineer's approval.

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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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Alan Y. Tomita

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CURB RAMP DETAIL**

KAMEHAMEHA HIGHWAY RESURFACING  
Kaneohe Bay Drive to Kahiko Street  
F. A. Project No. NH-083-1(41)  
Scale: As Shown Date: June, 1999  
SHEET No. 4 OF 4 SHEETS