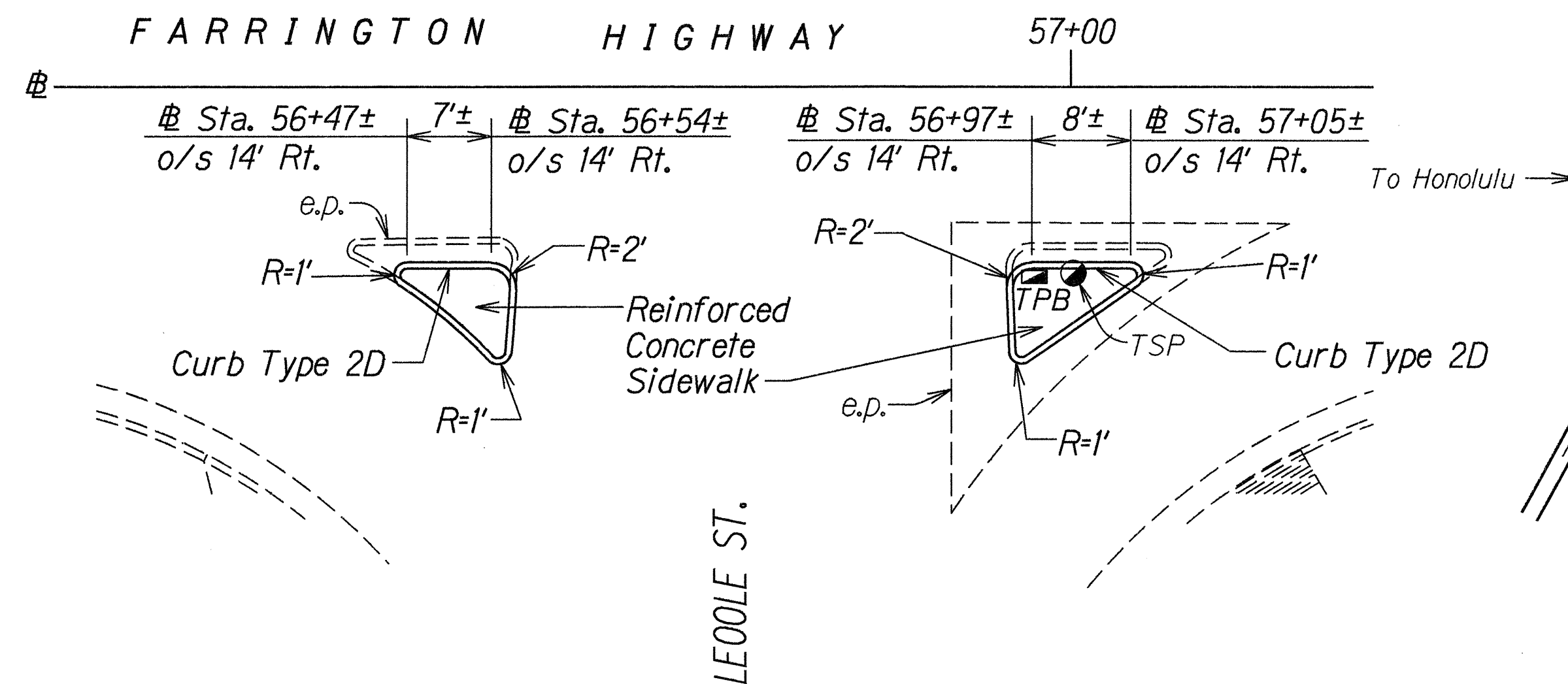
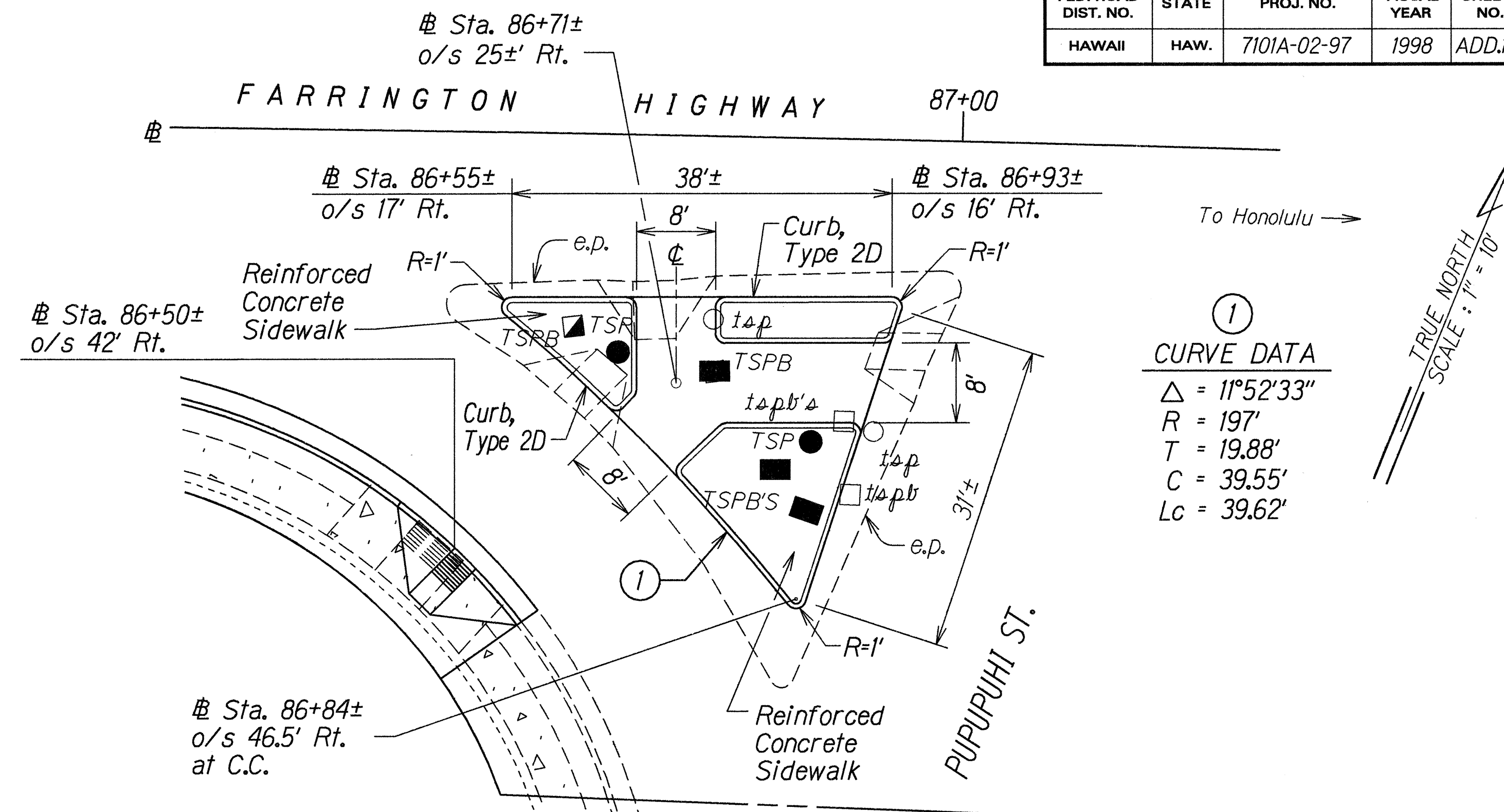


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	ADD.10	102

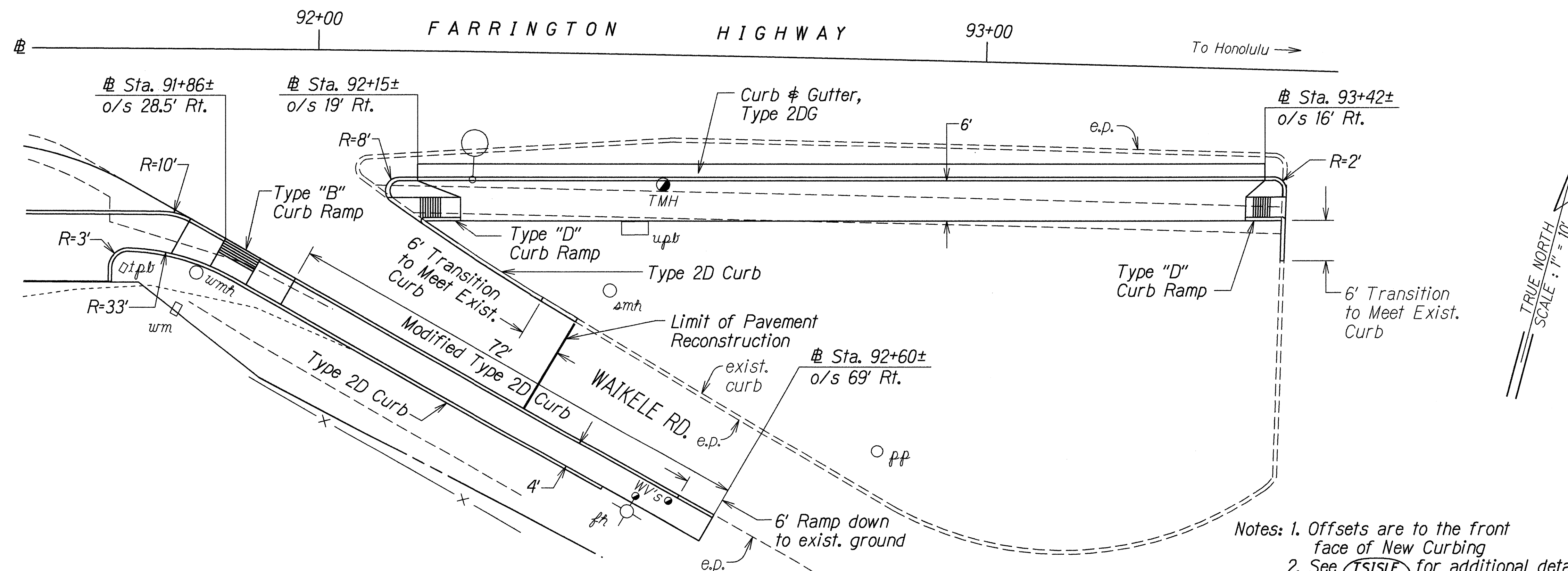


FARRINGTON HWY. & LEOOLE ST. INTERSECTION
Scale: 1" = 10.0'



FARRINGTON HWY. & PUPUPUHI ST. INTERSECTION
Scale: 1" = 10.0'

①
CURVE DATA
 $\Delta = 11^{\circ}52'33''$
 $R = 197'$
 $T = 19.88'$
 $C = 39.55'$
 $L_c = 39.62'$



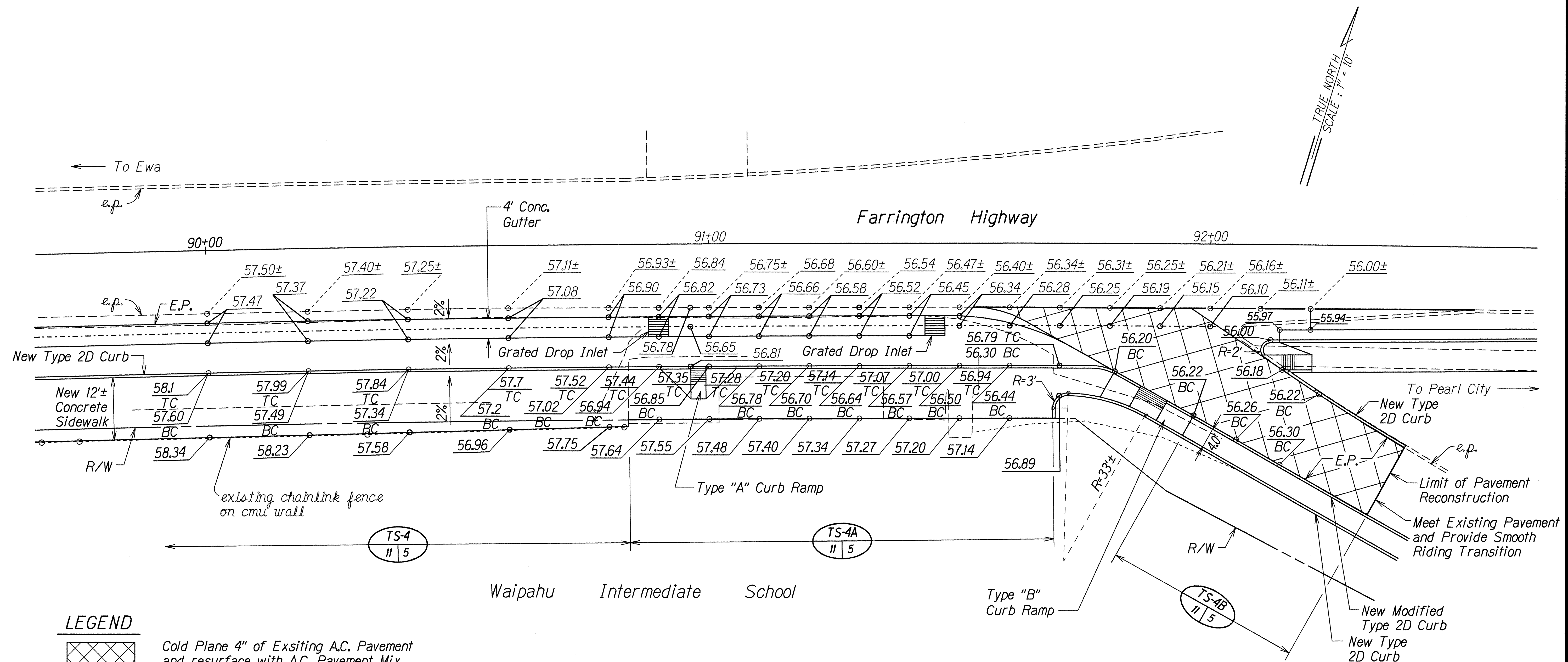
FARRINGTON HWY. & WAIKELE RD. INTERSECTION
Scale: 1" = 10.0'

- Notes: 1. Offsets are to the front face of New Curbing
2. See TSISLE for additional details.
3. Rounding of curb face corners shall be constructed with a 6 inch minimum radius unless otherwise noted.

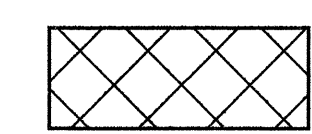
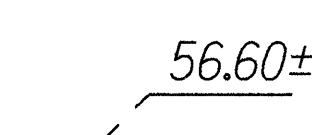
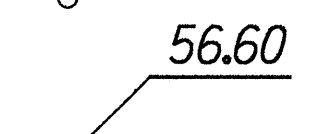
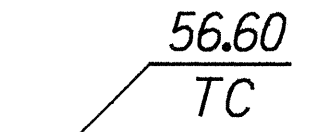
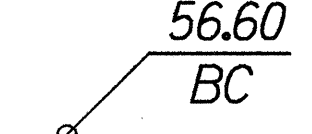
DATE	6-9-98
DESIGNED BY	JH
DRAWN BY	JH
CHECKED BY	JH
IN CHARGE	JH
NOTED BY	JH
QUANTITIES BY	JH
CHECKED BY	JH

6-9-98	Revised offset at Farrington Hwy. & Pupupuhi St. Intersection, Limit of Curbs at Waikale Road and Added Note No. 3.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ISLAND DETAILS FARRINGTON HIGHWAY SIDEWALKS Leole Street to Awanui Street and Leoku Street to Paiwa Street Project No. 7101A-02-97 Scale: 1"=10.0' Date: May 1998	
SHEET No. 1 OF 1 SHEETS	

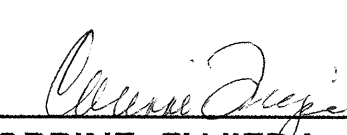
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	11	102



LEGEND

-  Cold Plane 4" of Existing A.C. Pavement and resurface with A.C. Pavement Mix No. IV to New Grade
-  Existing Pavement Grade
-  New Pavement Grade
-  Top of Curb Finished Grade
-  Bottom of Curb Finished Grade

APPROVED FOR CONSTRUCTION WITHIN
WAIPAHU INTERMEDIATE SCHOOL:


CORRINE FUJIEDA, VICE PRINCIPAL

5/29/98
DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PAVEMENT GRADE & DETAIL

FARRINGTON HIGHWAY SIDEWALKS

Leoku Street to Paiwa Street and

Leole Street to Awanui Street

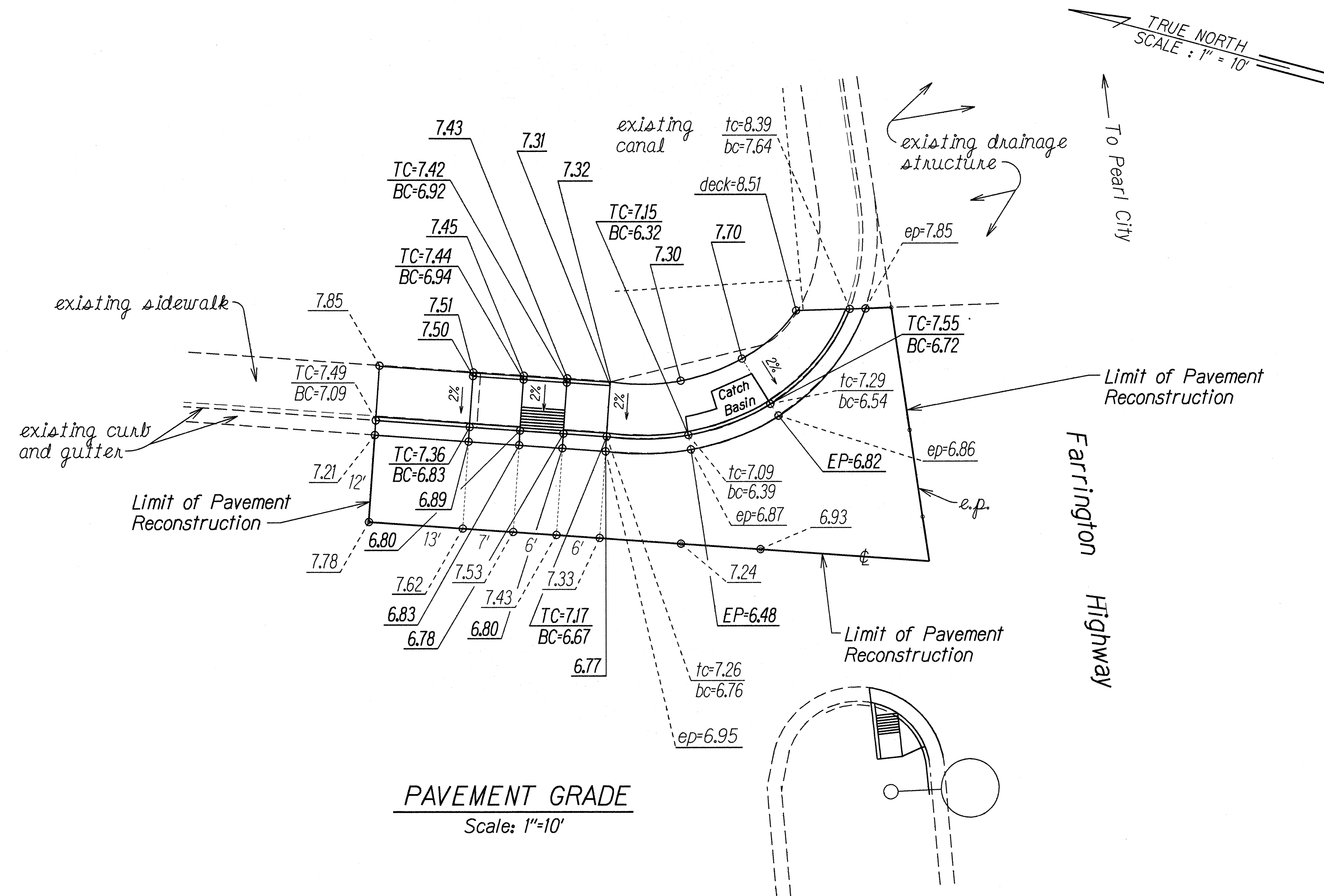
Project No. 7101A-02-97

Scale: 1"=10' Date: May 1998

SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	5-22-98
DESIGNED BY	W. Quade	
CHECKED BY	W. Quade	
APPROVED BY	W. Quade	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	C.O.11S-1	102

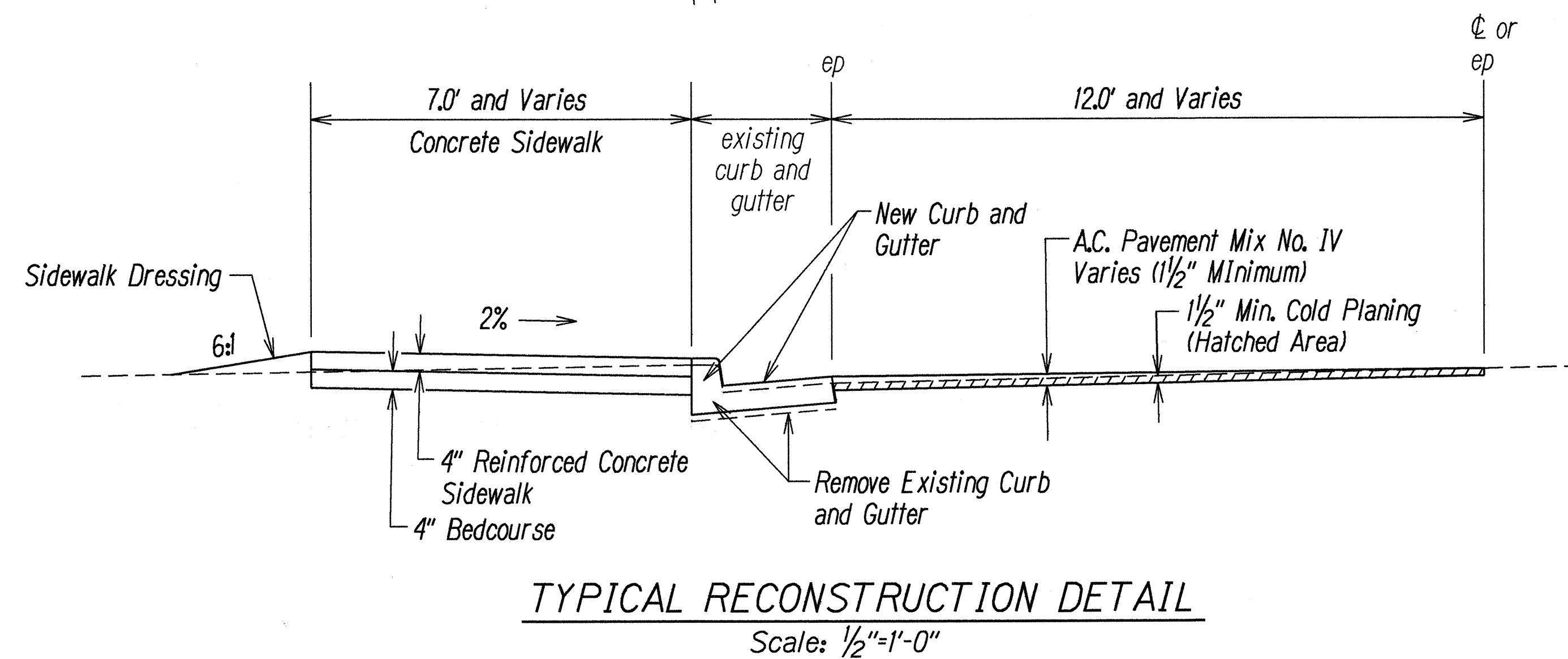


NOTES:

1. Install Isolation/Expansion Joint Around the Perimeter of the Catch Basin.
2. Construct Modified Type "B" Curb Ramp.

LEGEND

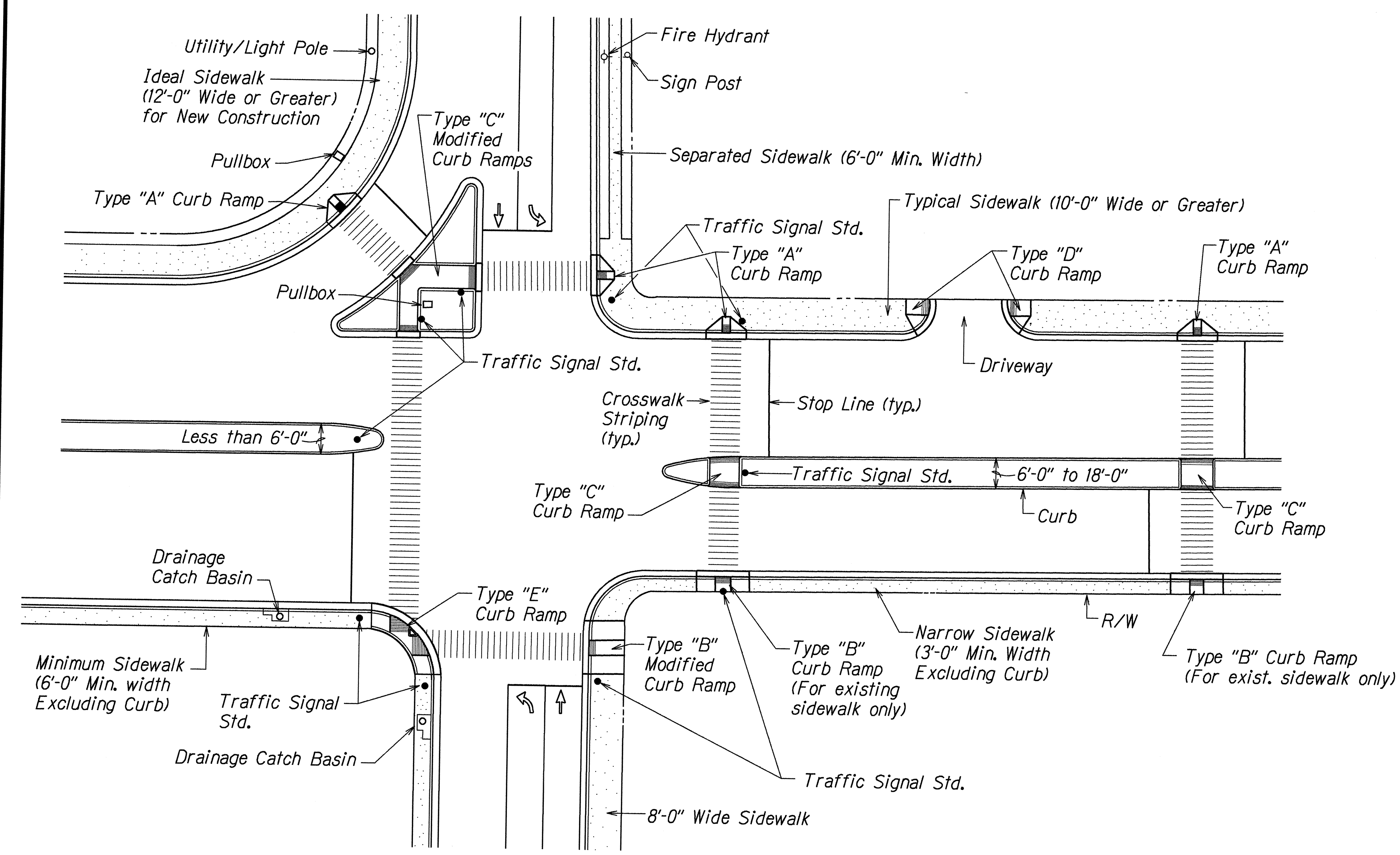
- 56.60 Existing Pavement Grade
- 56.60 New Pavement Grade
- TC=56.60 Top of Curb Finished Grade
- BC=56.10 Bottom of Curb Finished Grade
- ep=56.60 Existing Edge of Pavement Grade



9-9-99	Added Sheet for Sidewalk, Catch Basin and Pavement Reconstruction.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PAVEMENT GRADE & DETAIL FARRINGTON HIGHWAY SIDEWALKS Leoku Street to Paiwa Street and Leole Street to Awanui Street Project No. 7101A-02-97 Scale: As Shown Date: July, 1999 SHEET No. 1 OF 1 SHEETS	

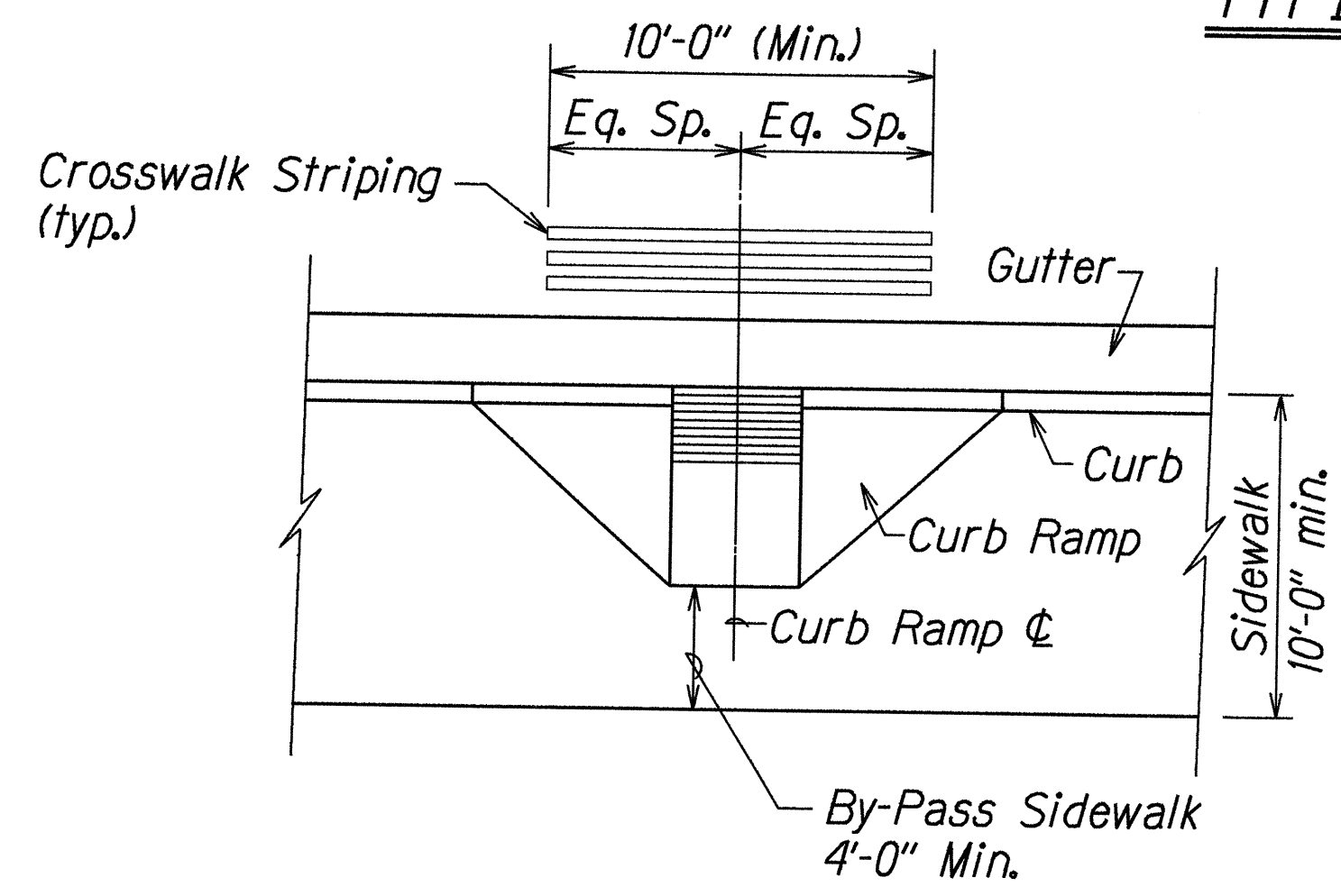
C.O.11S-1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	12	102



- 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. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items.
 - All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation.
 - Narrow Sidewalks (3'-0" min. width excluding curb) will prohibit the installation of any sign posts, utility poles, fire hydrants, traffic signals 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'-0" 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 intersections. 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.
 - 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.

TYPICAL CURB RAMPS



TYPICAL CROSSWALK STRIPING AT CURB RAMP

DESIGNED BY	DATE
DRAWN BY	5-1-98
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

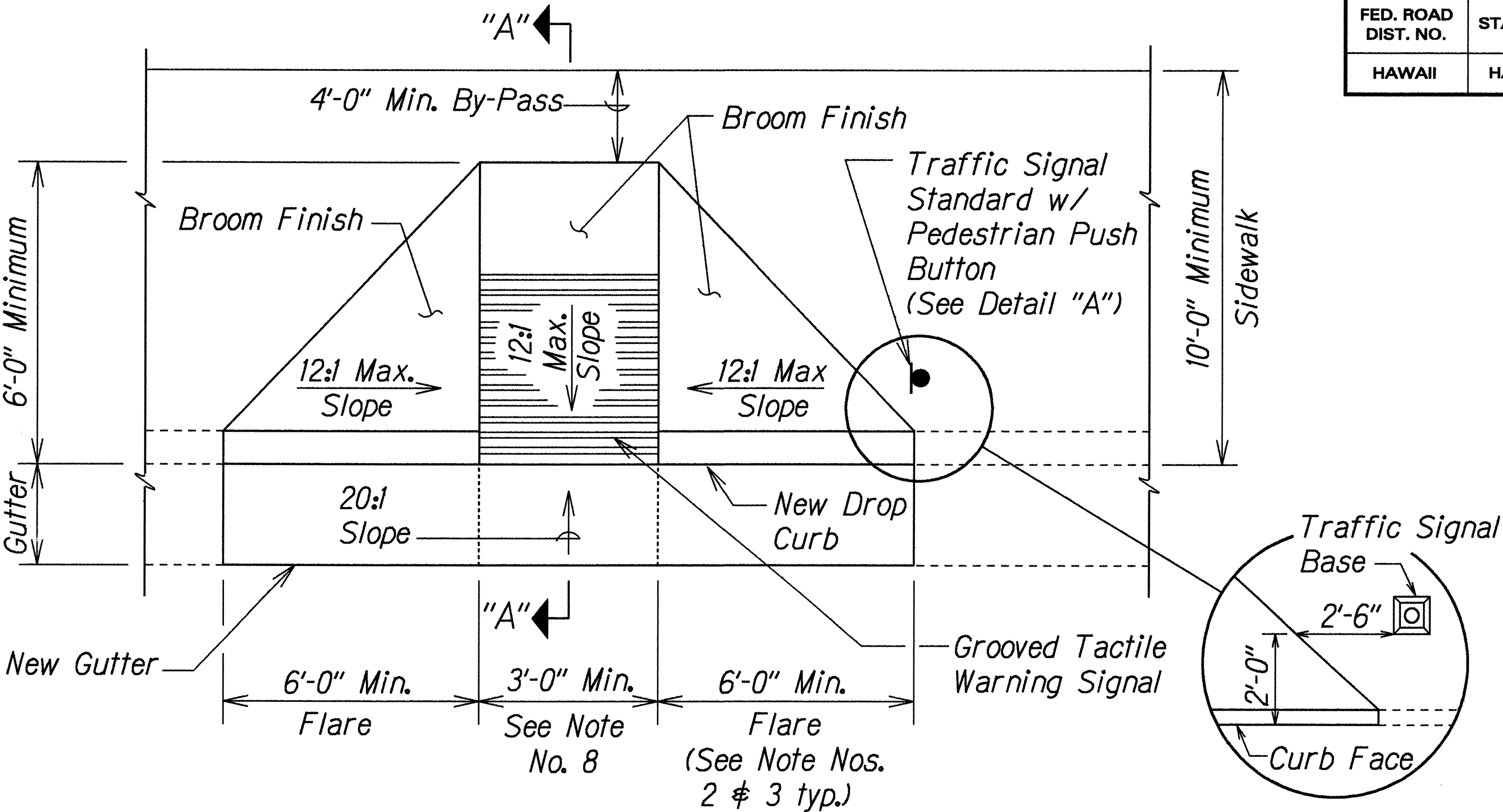
CURB RAMP DETAIL
FARRINGTON HIGHWAY SIDEWALKS
Leolu Street to Awanui Street and
Leoku Street to Paiwa Street
Project No. 7101A-02-97
Not to Scale
Date: May 1998

SHEET No. 1 OF 5 SHEETS

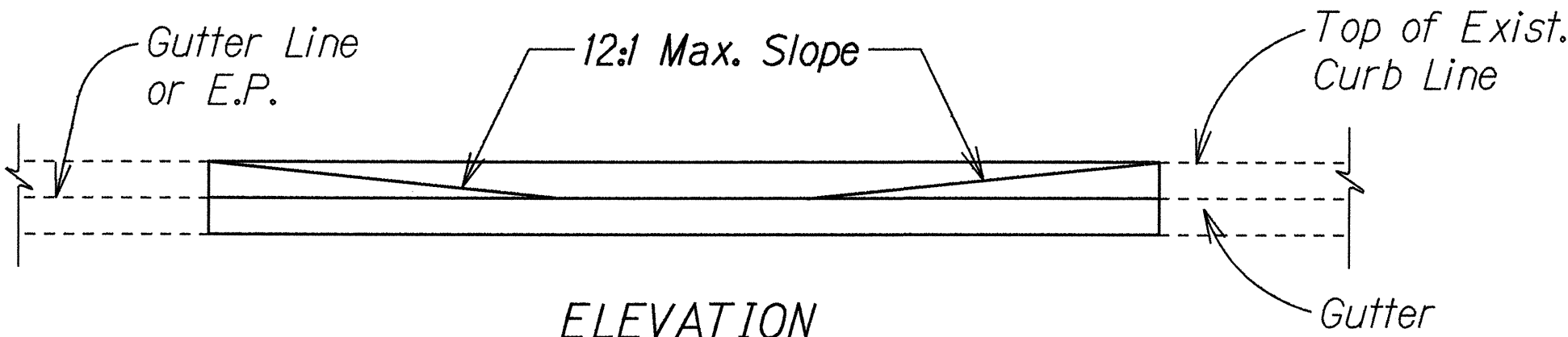
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	13	102

CURB RAMP NOTES:

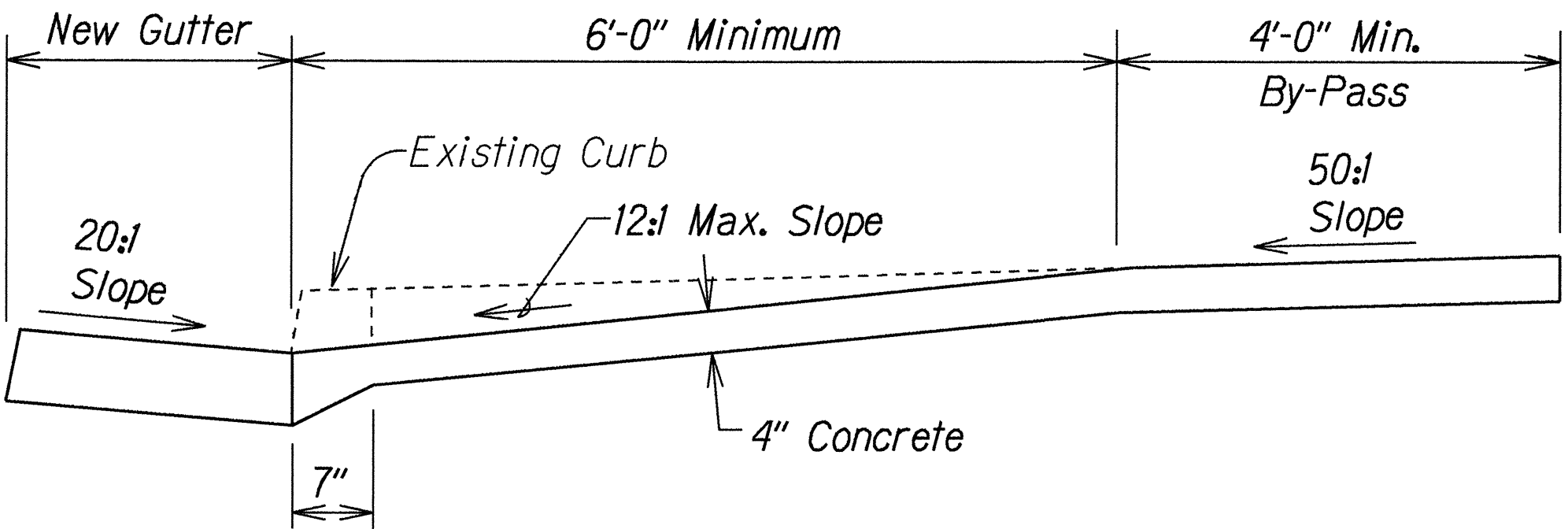
1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1. Area without a gutter shall be handled on a case by case basis in order to meet the 20:1 slope requirement.
2. The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 to the existing gutter slope.
3. 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.
4. Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
5. 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.
6. For Type "B" & 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.
7. The width of the curb ramp including curbs shall match the width of the sidewalk. 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.
8. 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.
9. 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.
10. The pedestrian push button shall meet current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.
11. 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).



PLAN

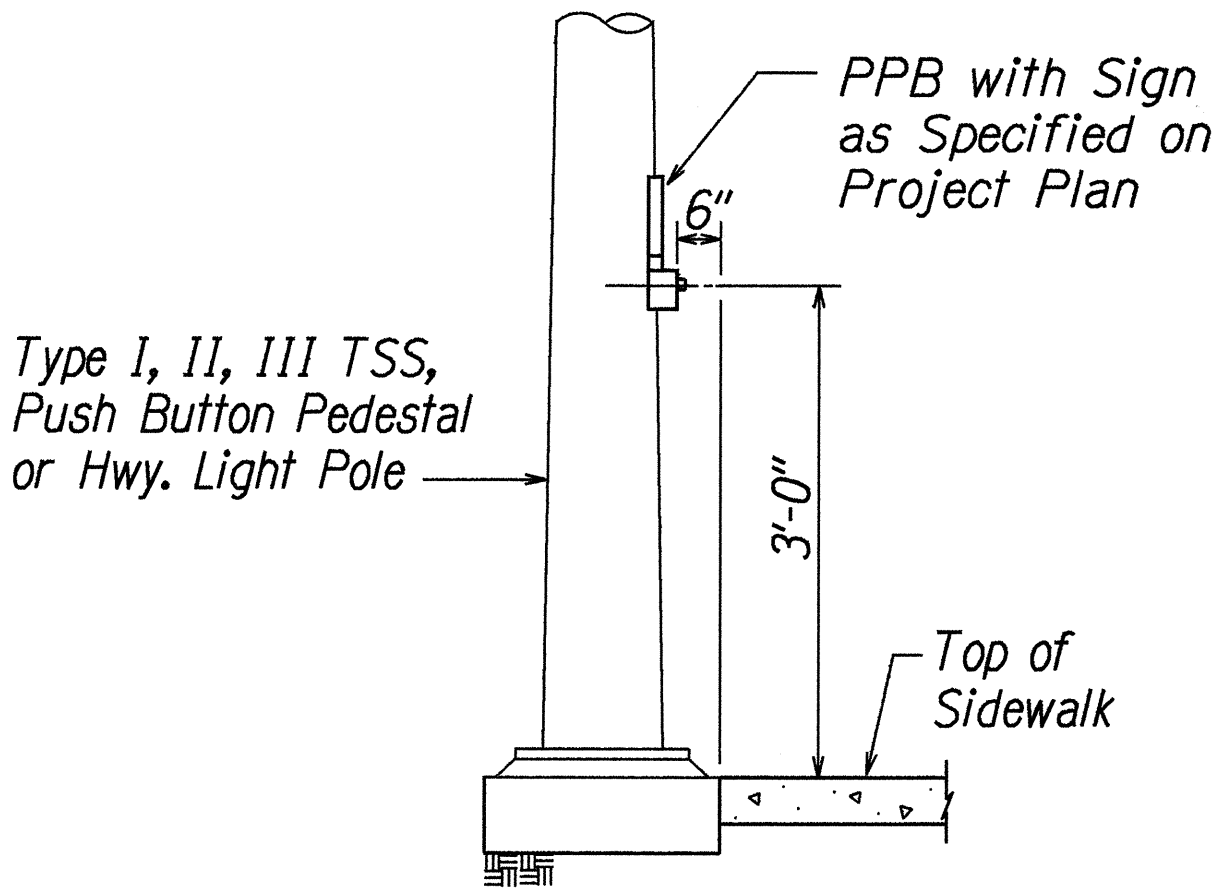


ELEVATION

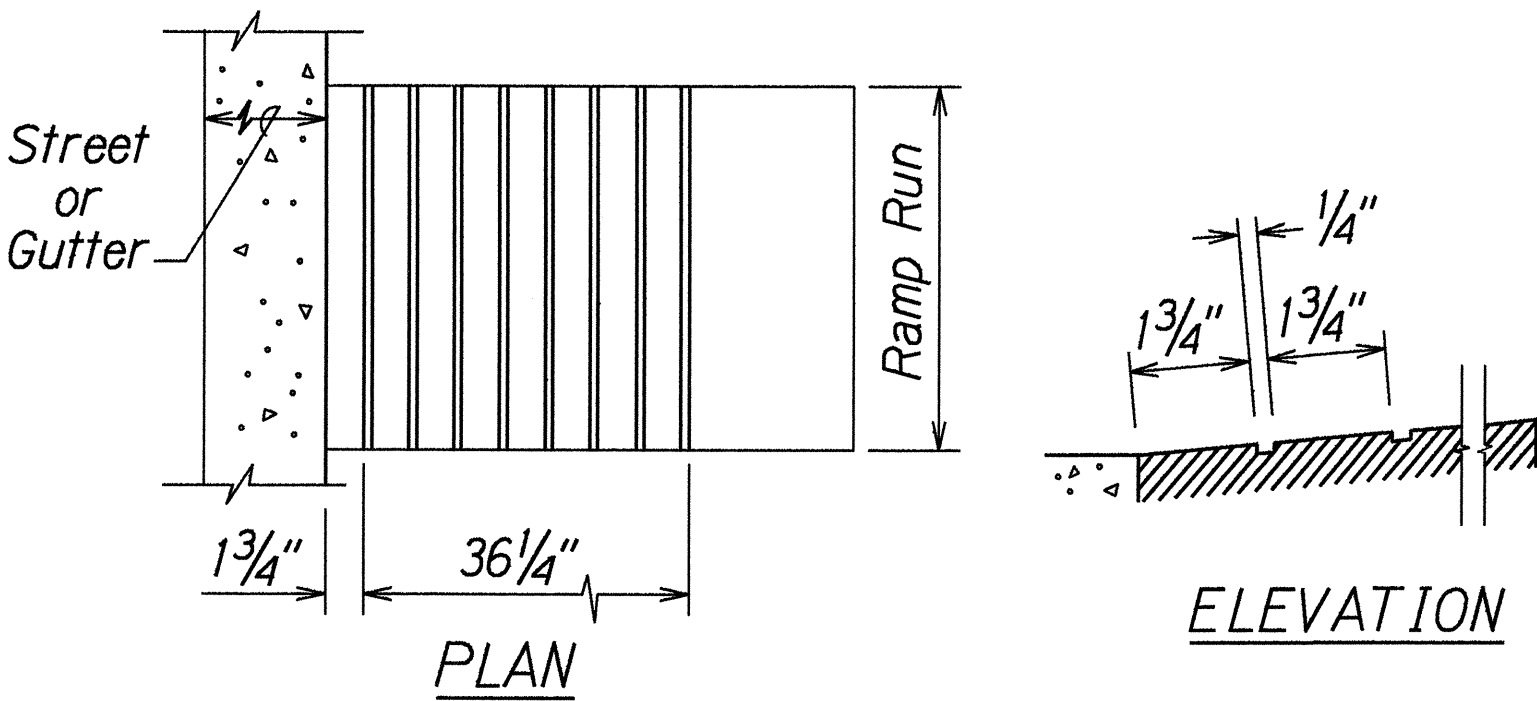


SECTION "A-A"

CURB RAMP - TYPE "A"
SIDEWALK WIDTH 10'-0" OR GREATER



DETAIL "A"



GROOVED TACTILE WARNING SIGNAL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURB RAMP DETAIL
FARRINGTON HIGHWAY SIDEWALKS
Leole Street to Awanui Street and
Leoku Street to Paiwa Street
Project No. 7101A-02-97
Not to Scale Date: May 1998
SHEET No. 2 OF 5 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY G. Mithunala, MH	5-1-98
DESIGNED BY J. Frazee, R. Upton, M. Ouellet	
CHECKED BY M. Frazee	

R 5-1-98 TE-69 sht. 2 of 5

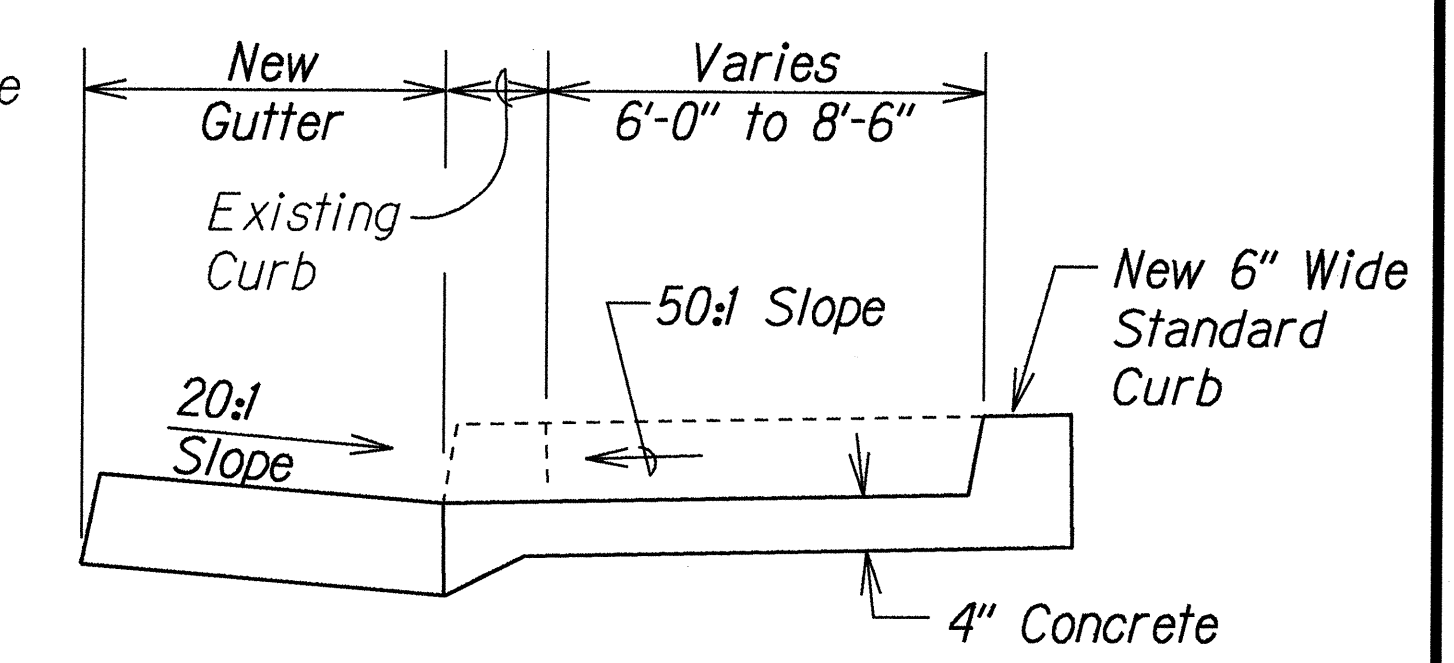
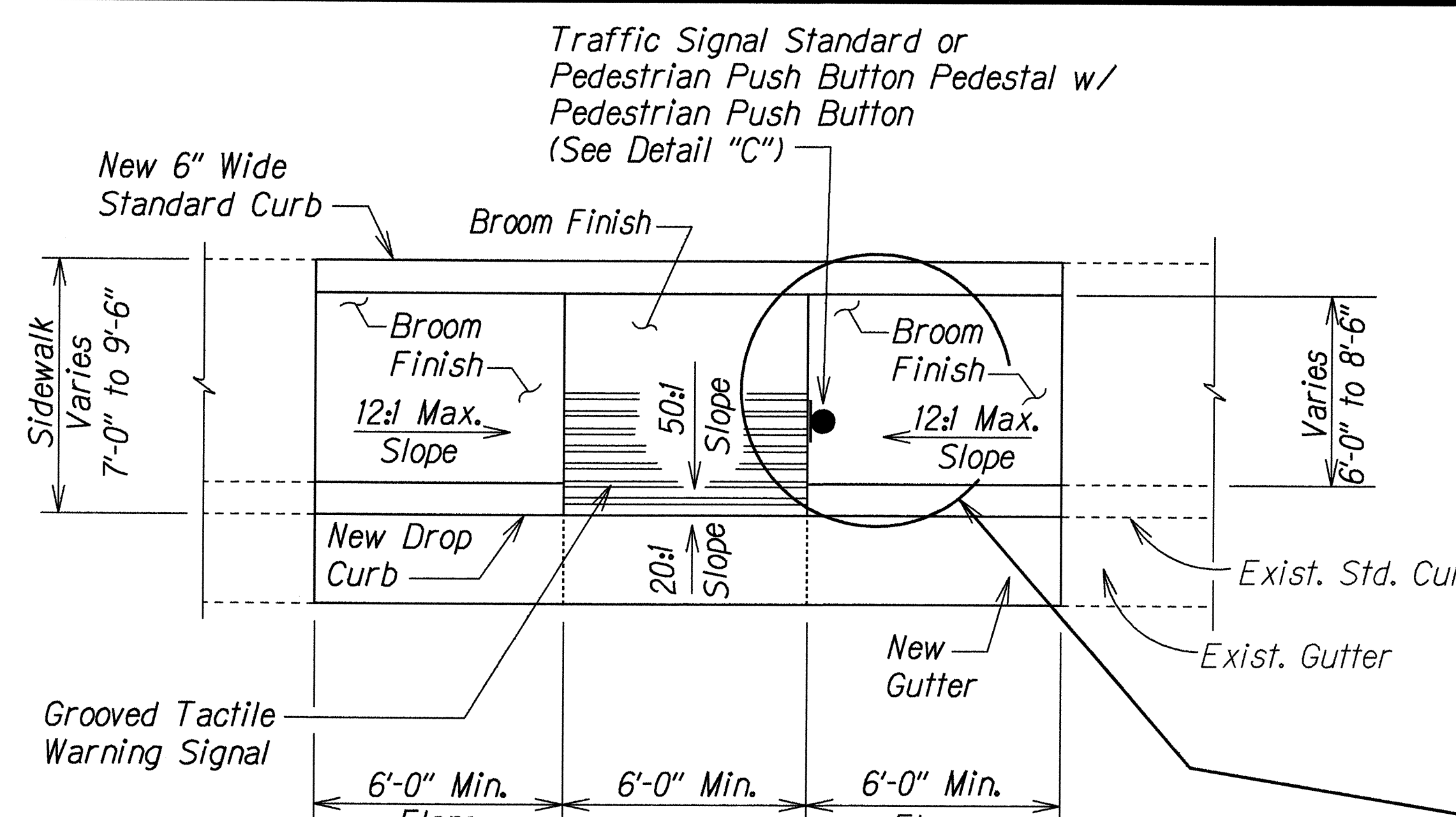
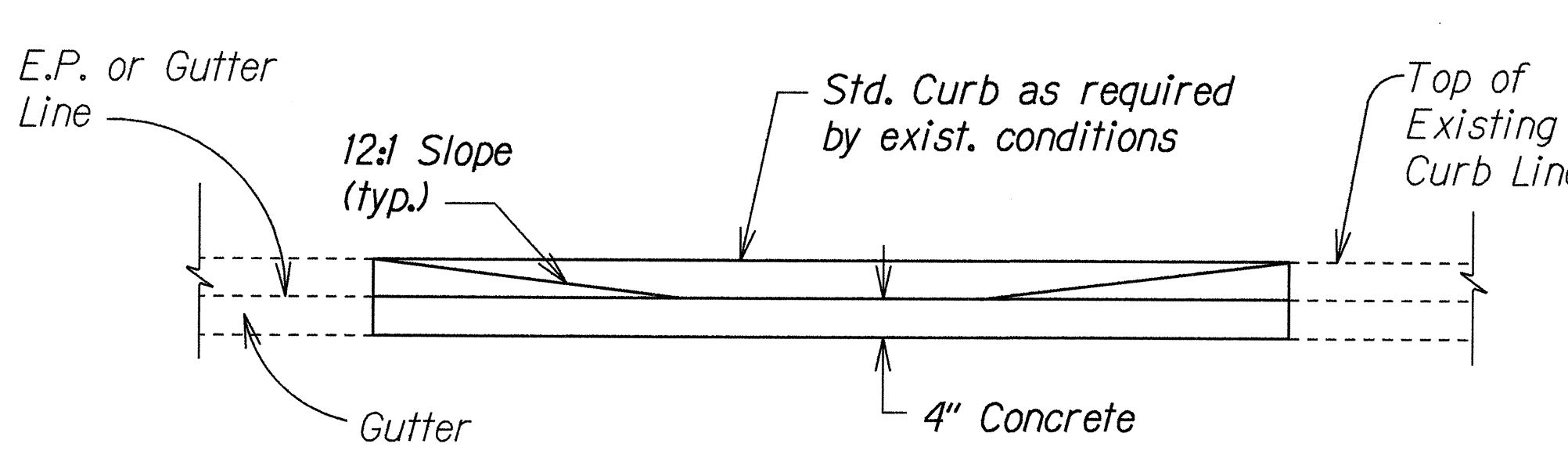
The diagrams illustrate two cross-sections of a curb and gutter assembly, showing the relationship between the sidewalk, curb, gutter, and traffic signal standard.

Left Diagram: Standard Curb and Gutter

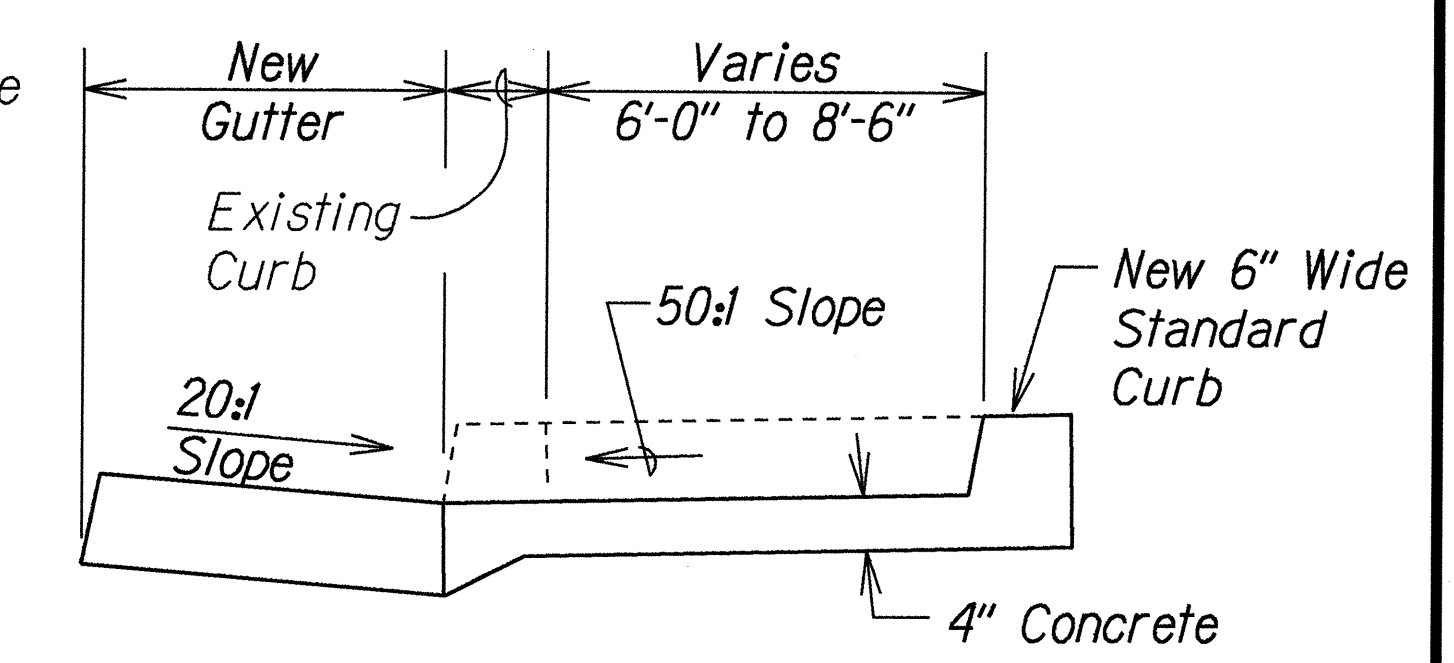
- Sidewalk:** Width varies from 4'-0" to 6'-6".
- Curb:** New 6" or 12" or wider standard curb. Slope is 12:1 Max. Broom Finish.
- Gutter:** New gutter. Slope is 20:1. Broom Finish.
- Traffic Signal Standard:** Standard w/ pedestrian push button. Located in the gutter. Slope is 50:1. Broom Finish.
- Existing:** Existing standard curb and gutter.
- Dimensions:**
 - 6'-0" Min. Flare (between sidewalk and curb)
 - 6'-0" Min. (between curb and gutter)
 - Flare (between gutter and traffic signal standard)

Right Diagram: Curb and Gutter with Pedestal

- Sidewalk:** Width varies from 7'-0" to 9'-6".
- Curb:** New 6" wide standard curb. Slope is 12:1 Max. Broom Finish.
- Gutter:** New gutter. Slope is 20:1. Broom Finish.
- Traffic Signal Standard:** Standard or pedestrian push button pedestal w/ pedestrian push button. Located in the gutter. Slope is 50:1. Broom Finish.
- Existing:** Existing standard curb and gutter.
- Dimensions:**
 - 6'-0" Min. Flare (between sidewalk and curb)
 - 6'-0" Min. (between curb and gutter)
 - 6'-0" Min. (between gutter and traffic signal standard)

PLAN

ELEVATION



CURB RAMP - TYPE "B" MODIFIED

*SIDEWALK WIDTH 7'-0" OR GREATER
BUT LESS THAN 10'-0" WIDTH*

TYPICAL SECTION

PPB with Sign
as Specified on
Project Plan

6"

3'-0"

Curb Ramp

Curb

Type I, II, III
TSS, Push Button
Pedestal or
Hwy. Light Pole

DETAIL "B"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

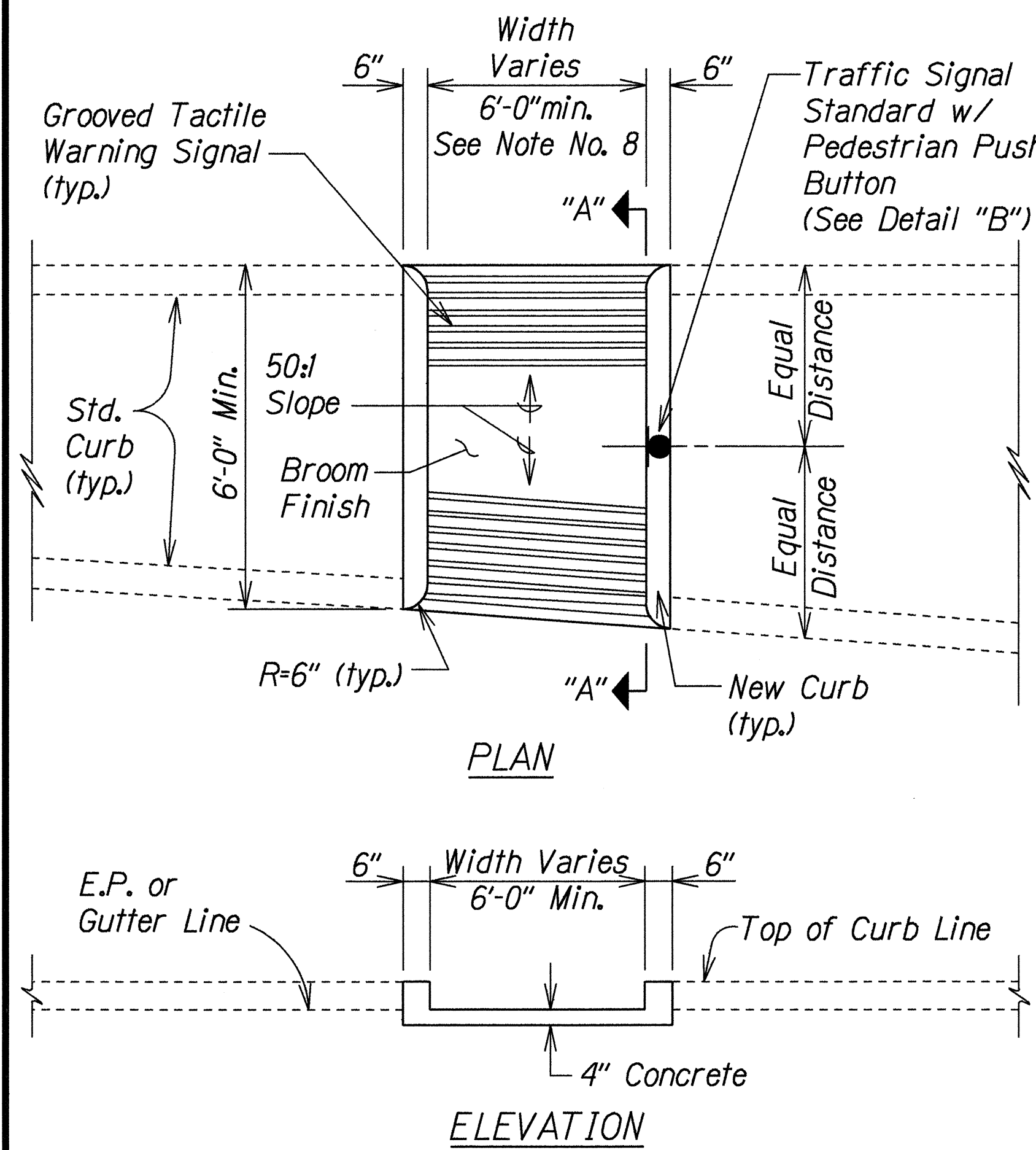
CURB RAMP DETAIL

FARRINGTON HIGHWAY SIDEWALKS
Leole Street to Awanui Street and
Leoku Street to Paiwa Street
Project No. 7101A-02-97

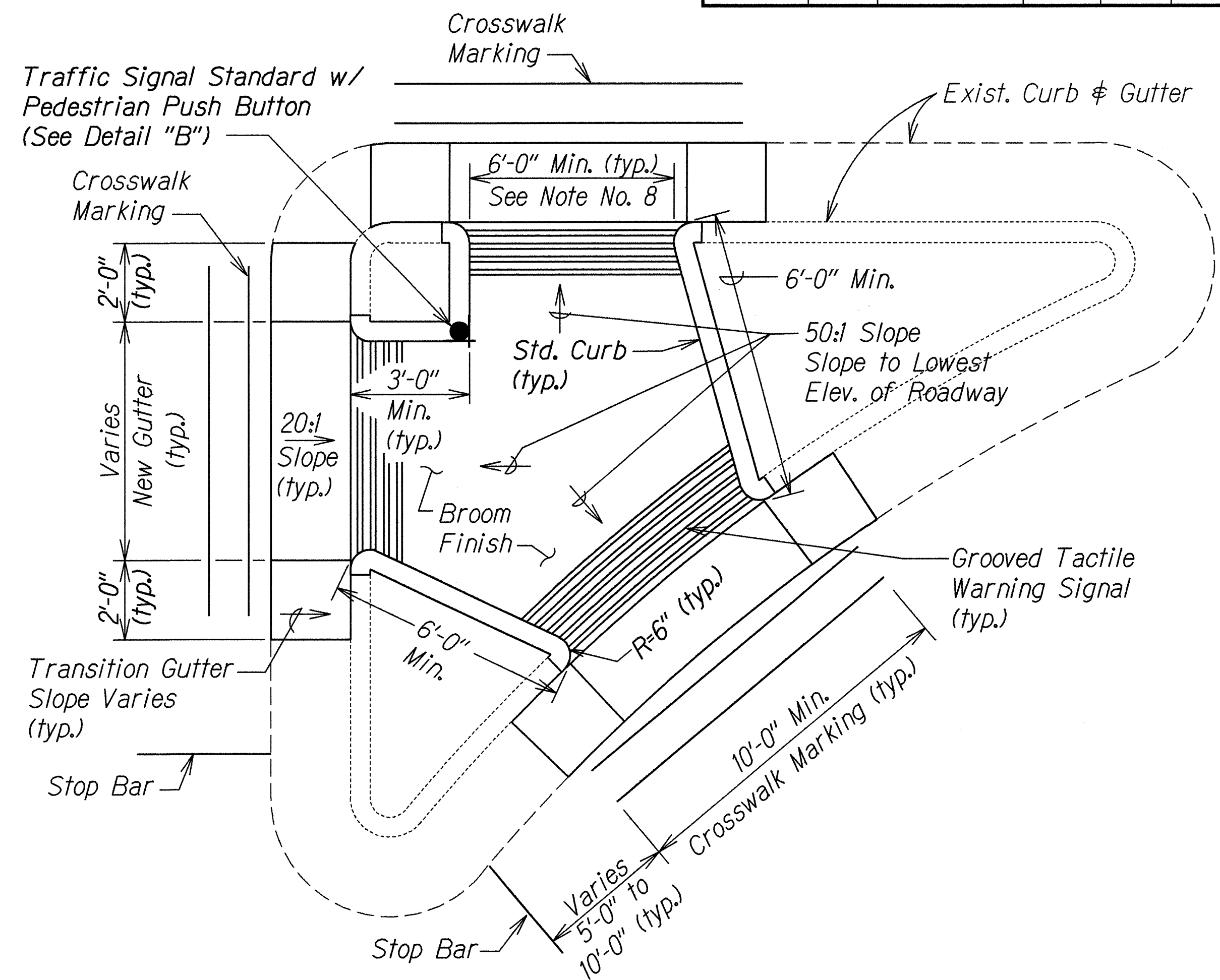
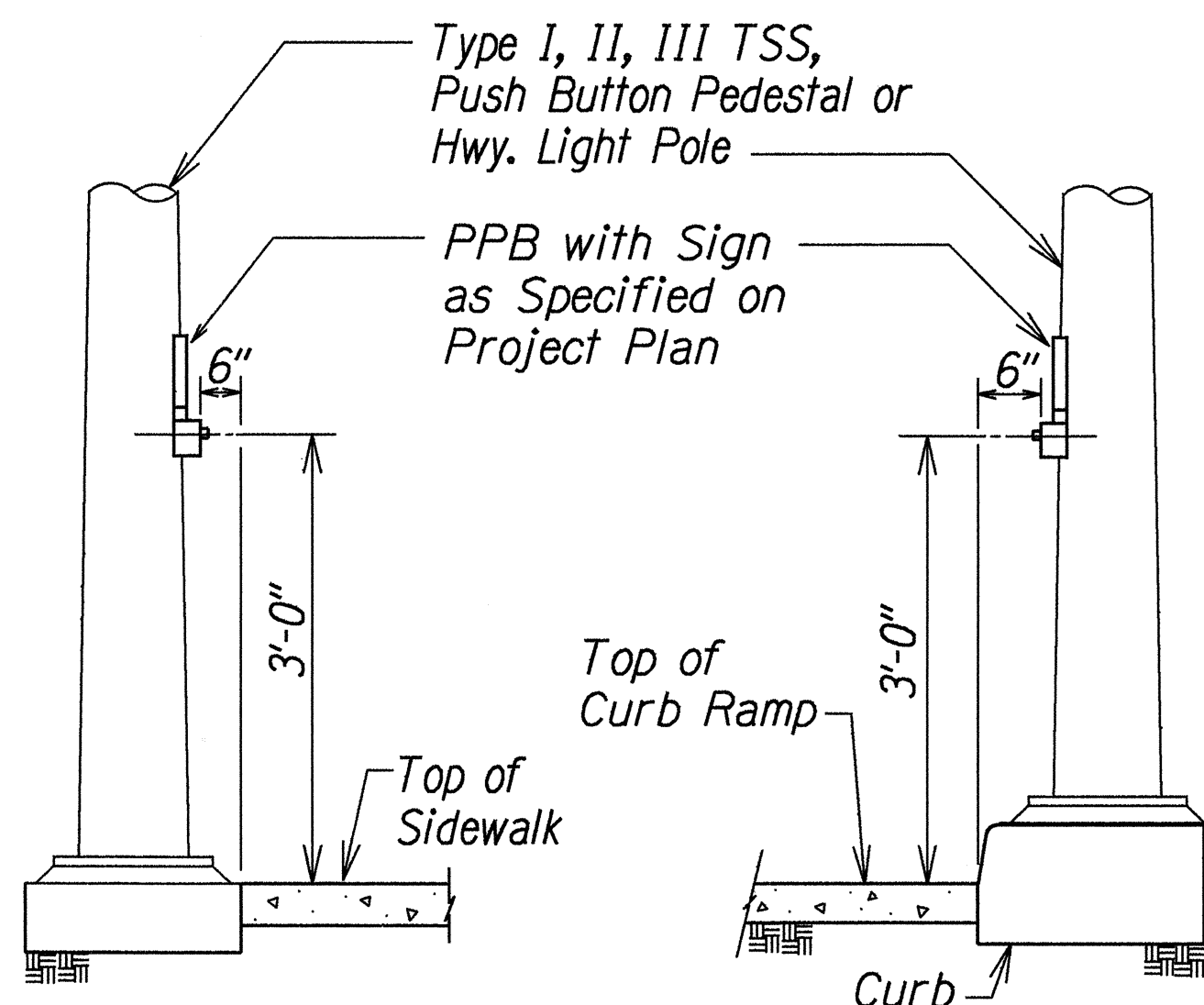
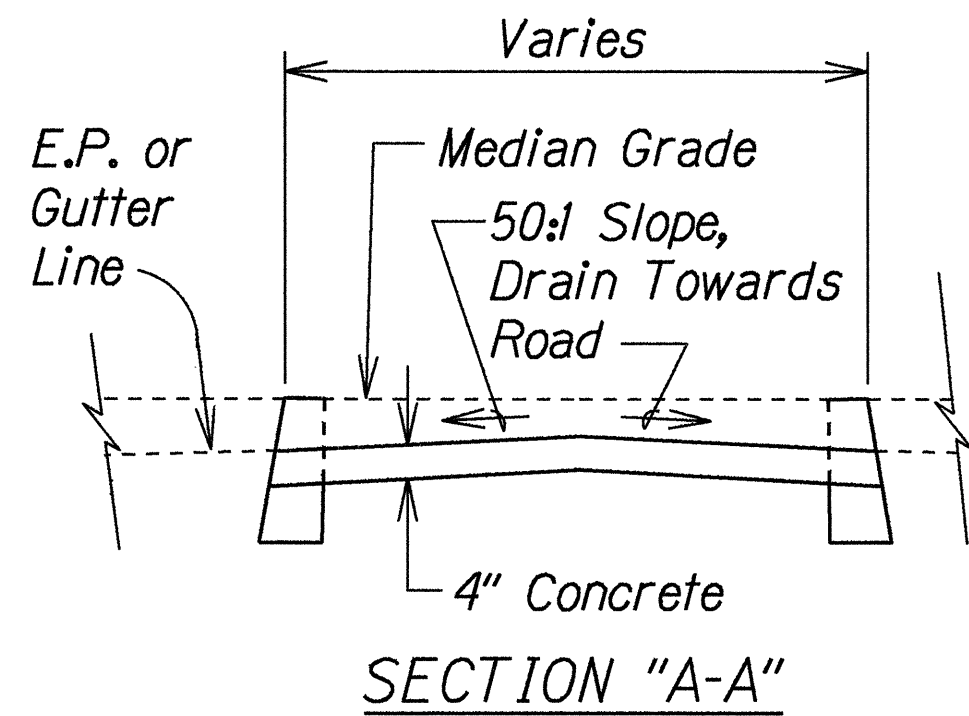
Not to Scale *Date: May 1998*

SHEET No. 3 OF 5 SHEETS

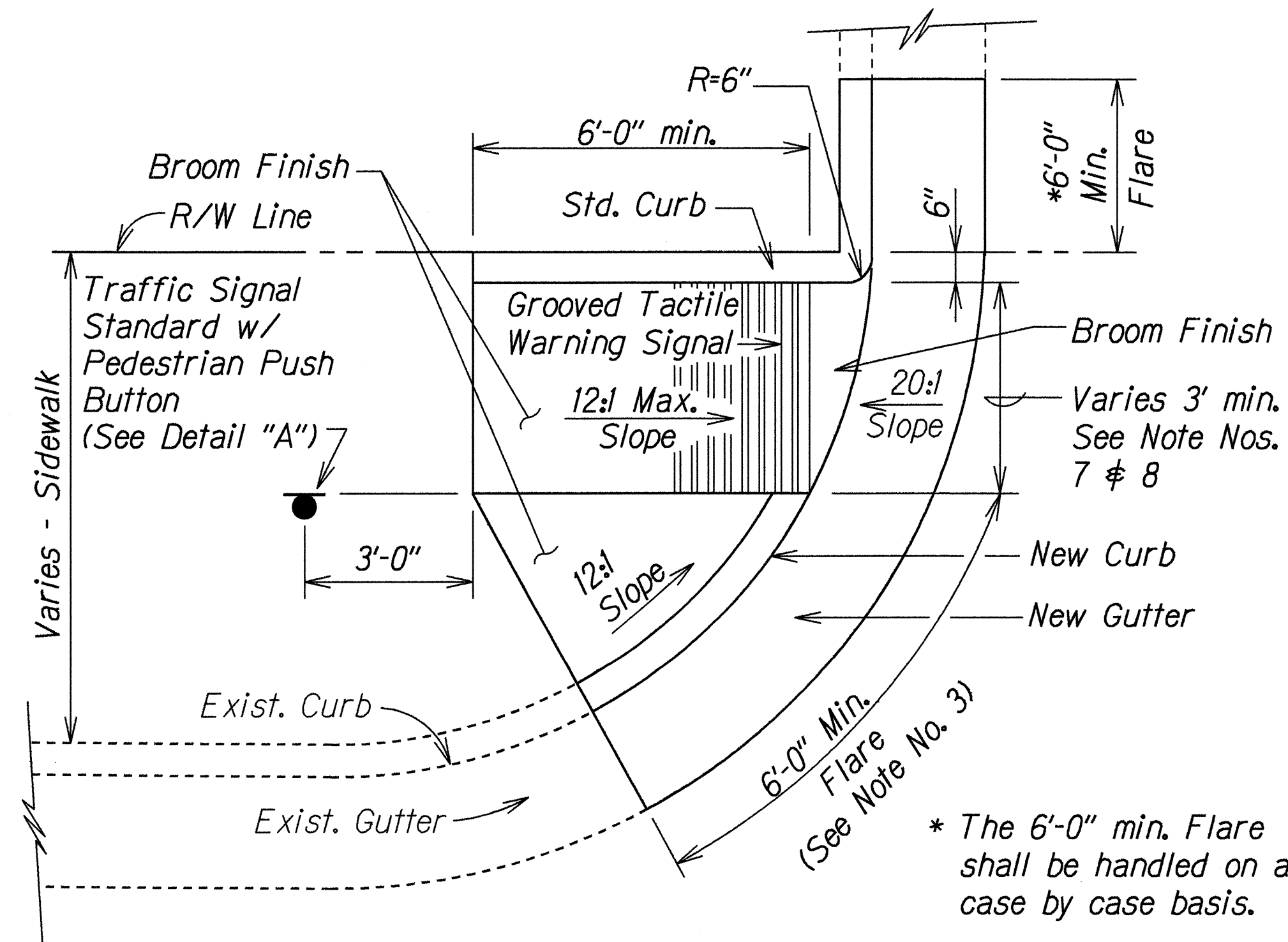
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	15	102



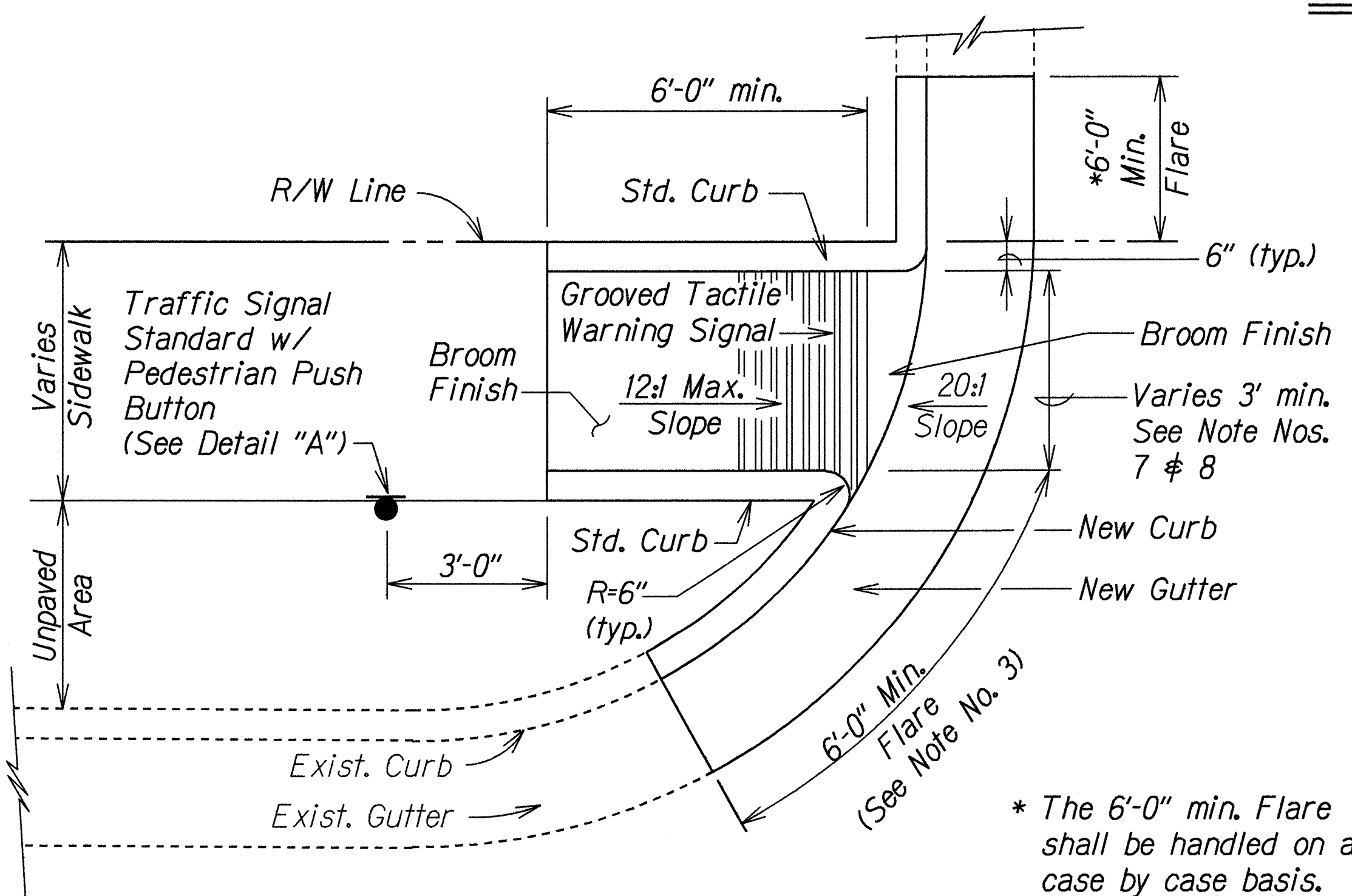
CURB RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS



CURB RAMP - TYPE "C" MODIFIED



CURB RAMP - TYPE "D"



CURB RAMP - TYPE "D" MODIFIED

ORIGINAL PLAN	DATE
DESIGNED BY	5-7-98
DRAWN BY	
CHECKED BY	
IN CHARGE	

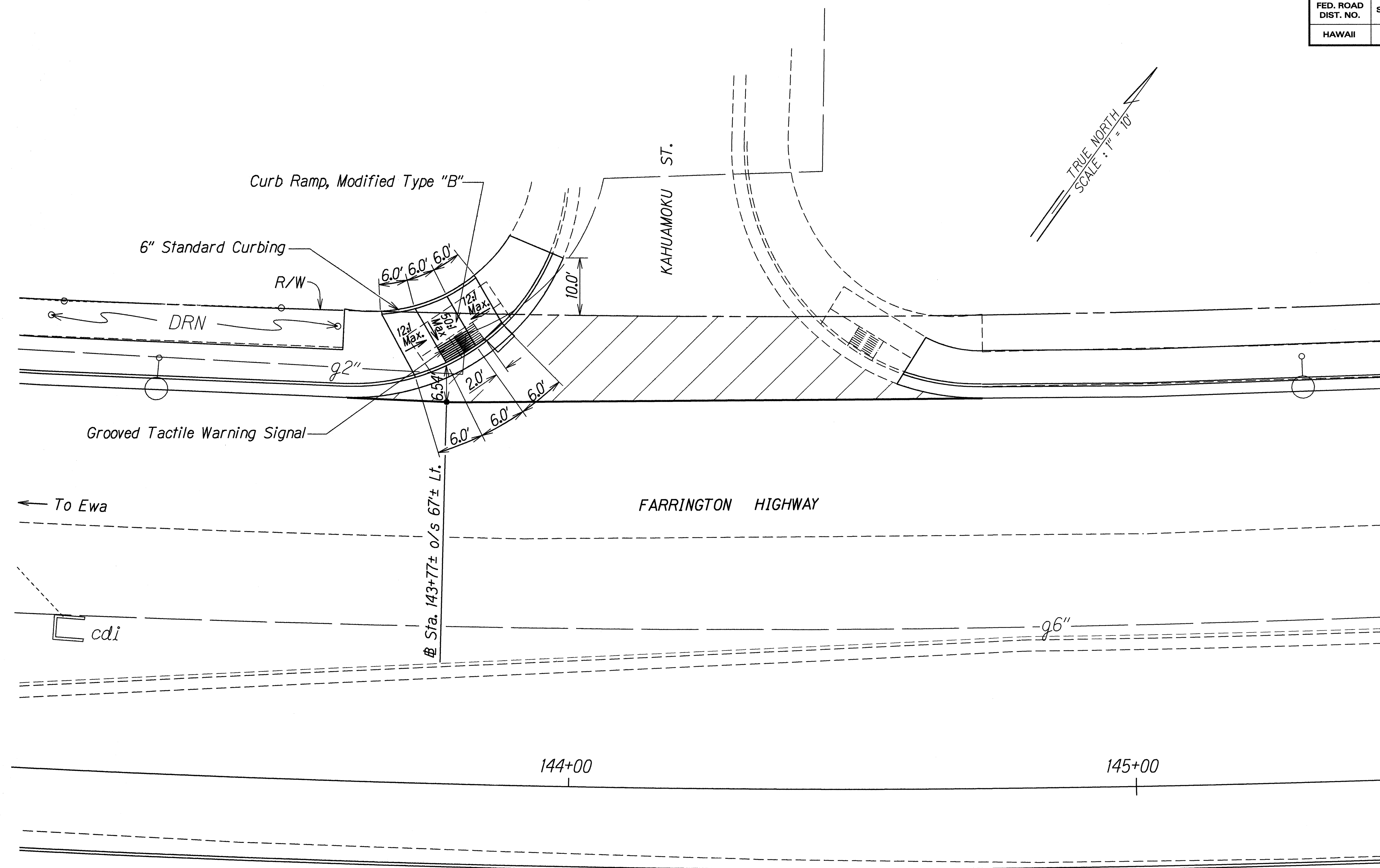
TE-69 sh. 4 of 5

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAIL
FARRINGTON HIGHWAY SIDEWALKS
Leole Street to Awanui Street and
Leoku Street to Paiwa Street
Project No. 7101A-02-97
Not to Scale
Date: May 1998

SHEET No. 4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-02-97	1998	C.O.16S-1	102



FARRINGTON HWY. & KAHUAMOKU ST. INTERSECTION
Scale: 1"=10'

ORIGINAL PLAN	DATE
DESIGNED BY	12/1/99
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

2/17/99	Added curb ramp detail at Kahumoku Street.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CURB RAMP DETAIL	
FARRINGTON HIGHWAY SIDEWALKS Leole Street to Awanui Street and Leoku Street to Paiwa Street Project No. 7101A-02-97	
Scale: As Noted	Date: Jan. 1999
SHEET No. 1 OF 1 SHEETS	