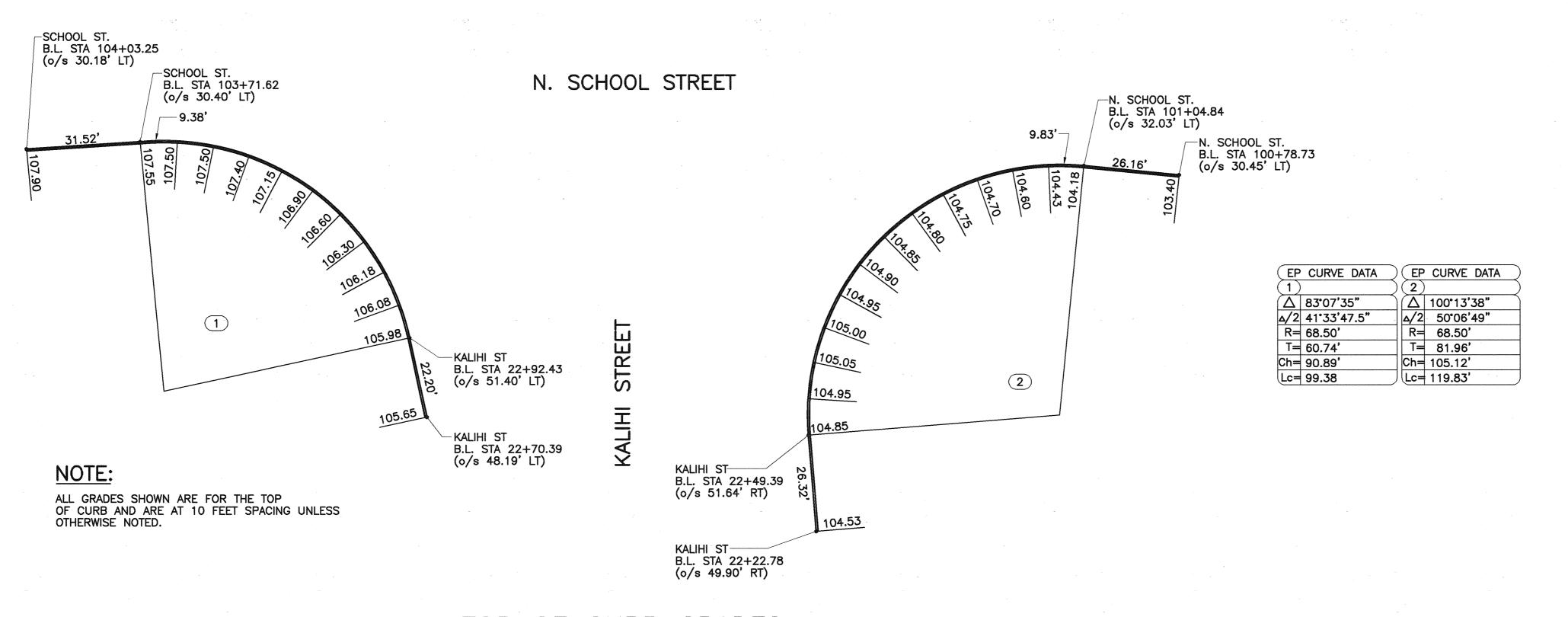
FED. ROAD DIST. NO. FISCAL SHEET YEAR NO. PROJ. NO. SHEETS HAW. 63A-01-97 1998 20 HAWAII



TOP OF CURB GRADES SCALE: 1"=20'

state of hawaii DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

CURB RETURN GRADES

LIKELIKE HIGHWAY TRAFFIC IMPROVEMENTS

VALLEY VIEW DRIVE TO H-1

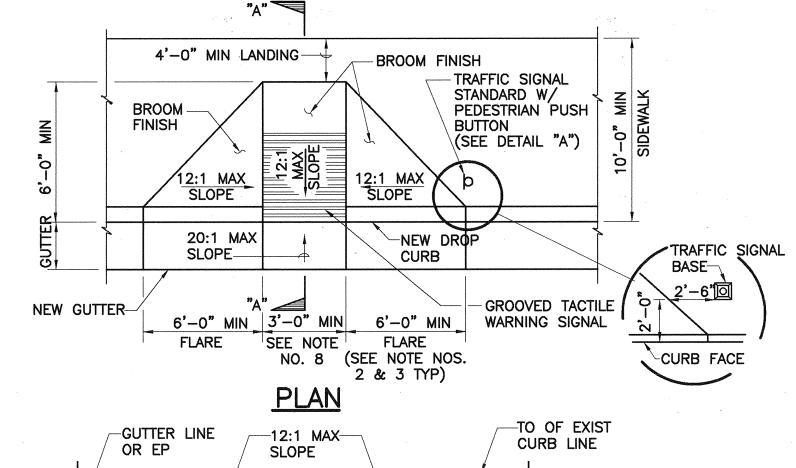
LIKELIKE HIGHWAY/SCHOOL ST. INTERSECTION Project No. 63A-01-97

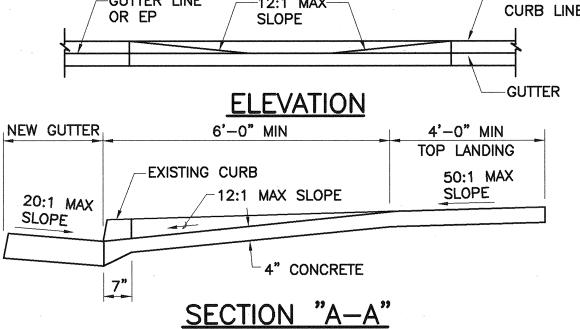
Scale: AS NOTED Date: MAY 1998

SHEET No. 1 OF 1 SHEETS

### CURB RAMP NOTES

- 1. THE NEW GUTTER FRONTING THE CURB RAMPS SHALL NOT EXCEED A SLOPE OF 20:1 MAXIMUM. AREAS WITHOUT A GUTTER SHALL BE HANDLED ON A CASE BY CASE BASIS IN ORDER TO MEET THE 20:1 MAXIMUM SLOPE REQUIREMENTS.
- 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 MAXIMUM 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 REQUIREMENTS.
- 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" AND 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), AND 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 OR FLATTER 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).
- 12. THERE SHALL BE A MINIMUM CLEARANCE OF 36" AROUND ALL OBSTRUCTIONS IN THE SIDEWALK AREA.





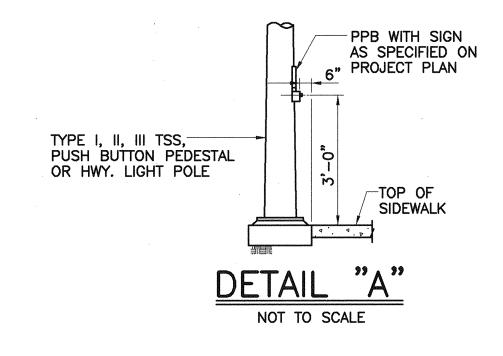
CURB RAMP — TYPE "A"

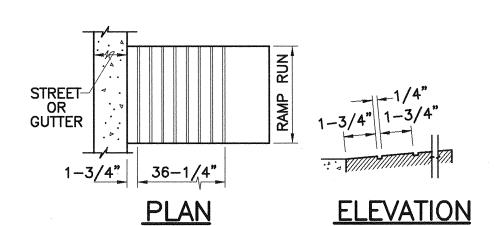
SIDEWALK WIDTH 10'-0" OR GREATER

NOT TO SCALE

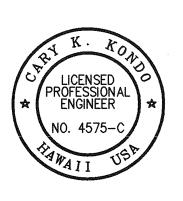
FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL YEAR NO. SHEETS

HAWAII HAW. 63A-01-97 1998 21 52





GROOVED TACTILE WARNING SIGNAL
NOT TO SCALE



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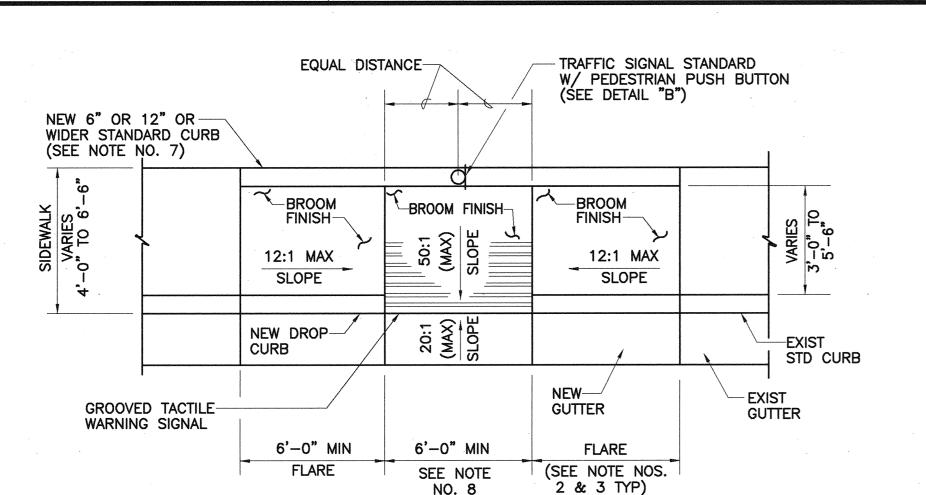
CURB RAMP DETAIL - TYPE "A"

LIKELIKE HIGHWAY TRAFFIC IMPROVEMENTS

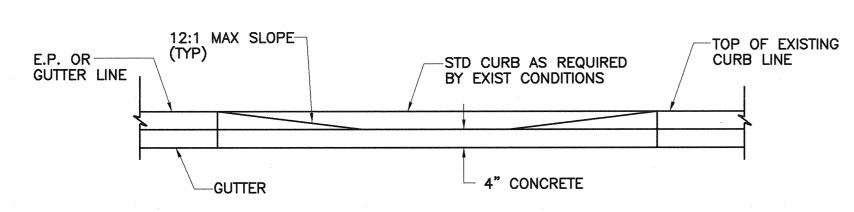
VALLEY VIEW DRIVE TO H-1

Project No. 63A-01-97
Scale: AS NOTED Date: MAY 1998

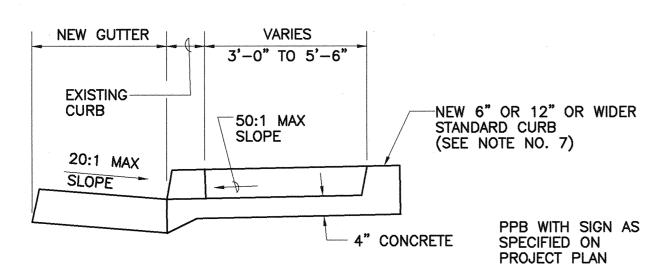
SHEET No. <u>1</u> OF <u>4</u> SHEETS



#### <u>PLAN</u>



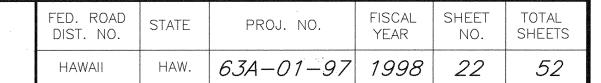
#### **ELEVATION**

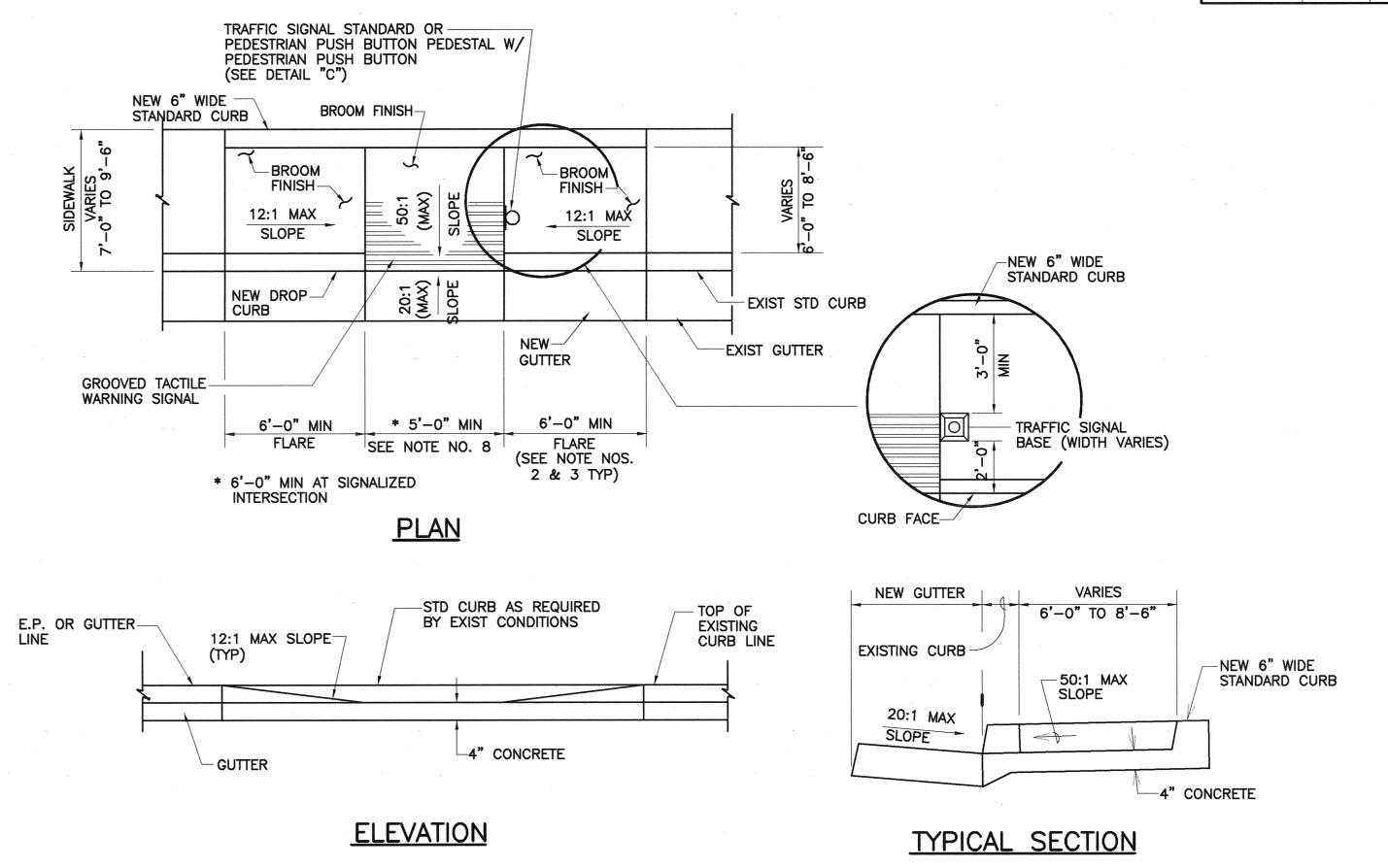


#### TYPICAL SECTION

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

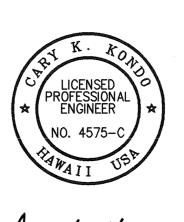
SCALE: 1/4" = 1'-0"





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

SCALE: 1/4" = 1'-0"

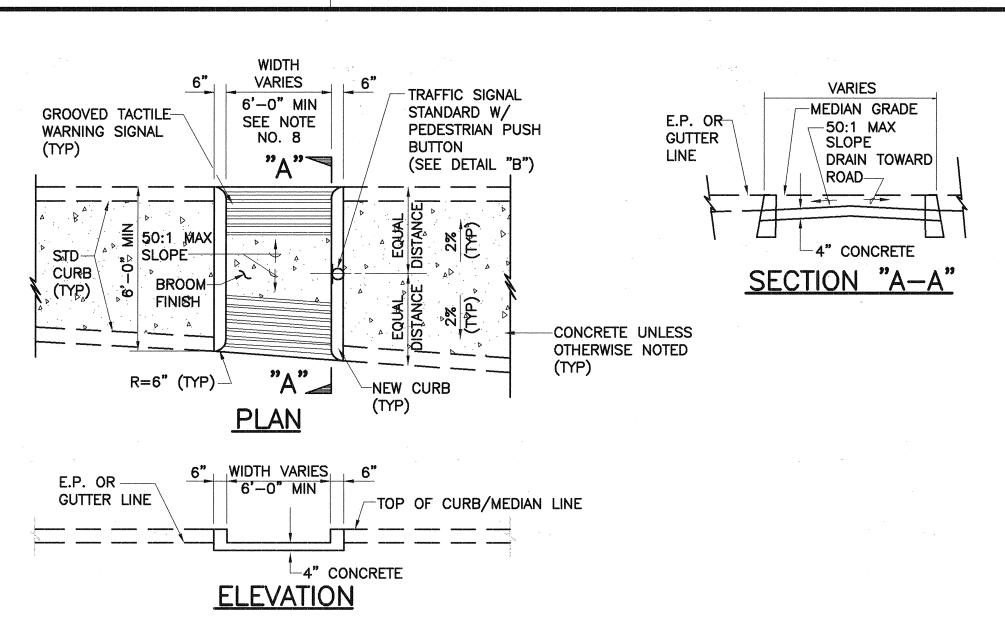


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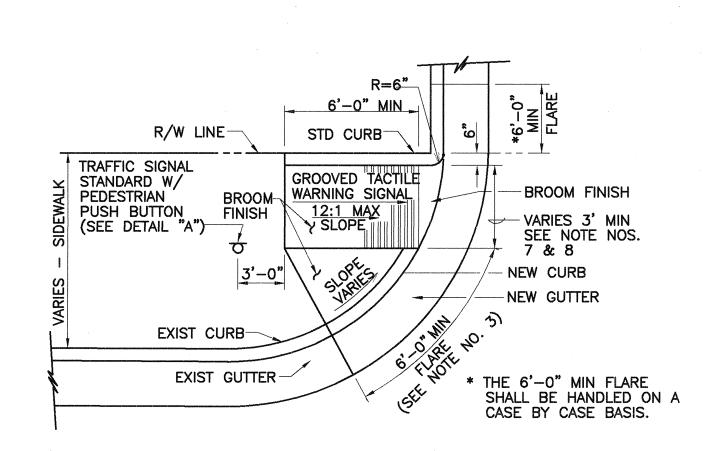
CURB RAMP DETAIL - TYPE "B"

LIKELIKE HIGHWAY TRAFFIC IMPROVEMENTS VALLEY VIEW DRIVE TO H-1

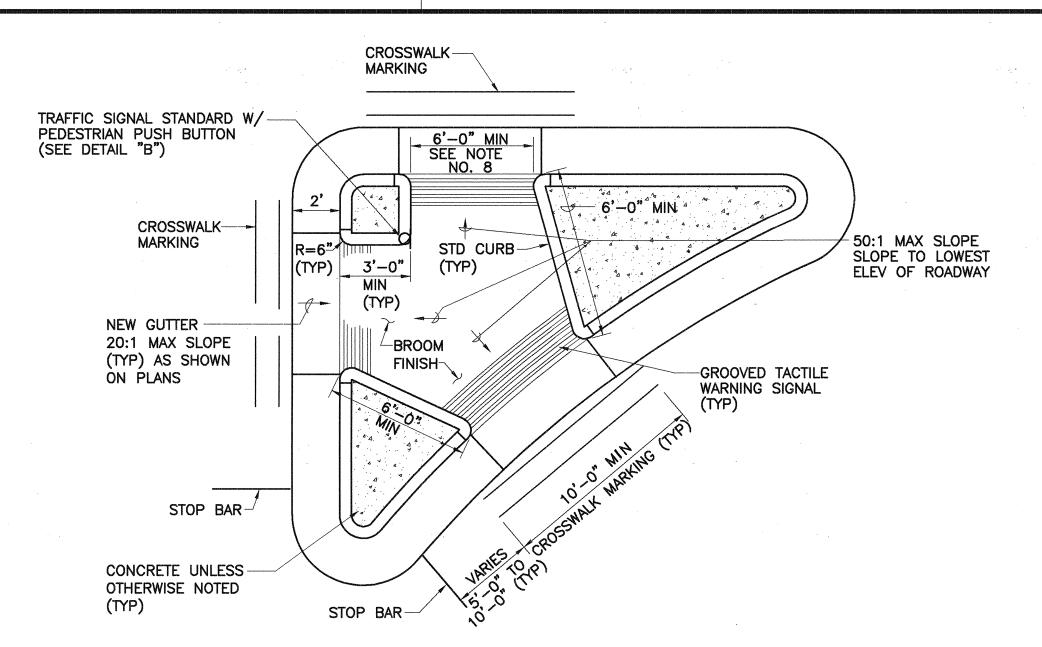
Project No. 63A-01-97 Date: MAY 1998 Scale: AS NOTED SHEET No. 2 OF 4 SHEETS



# CURB RAMP — TYPE "C" USE AT MEDIAN CROSSING, ISLANDS SCALE: 1/4" = 1'-0"

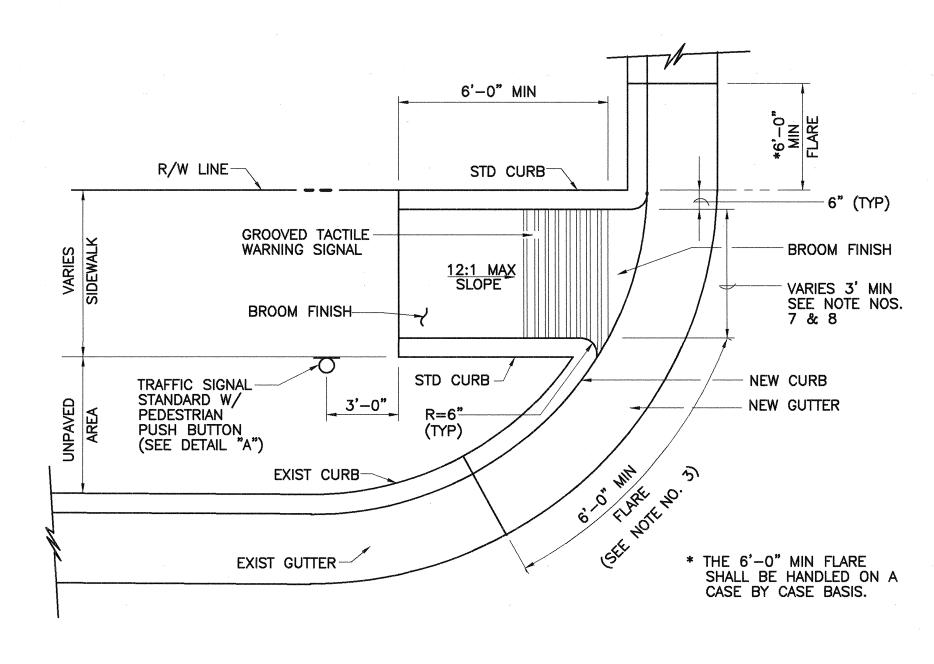


CURB RAMP - TYPE "D"

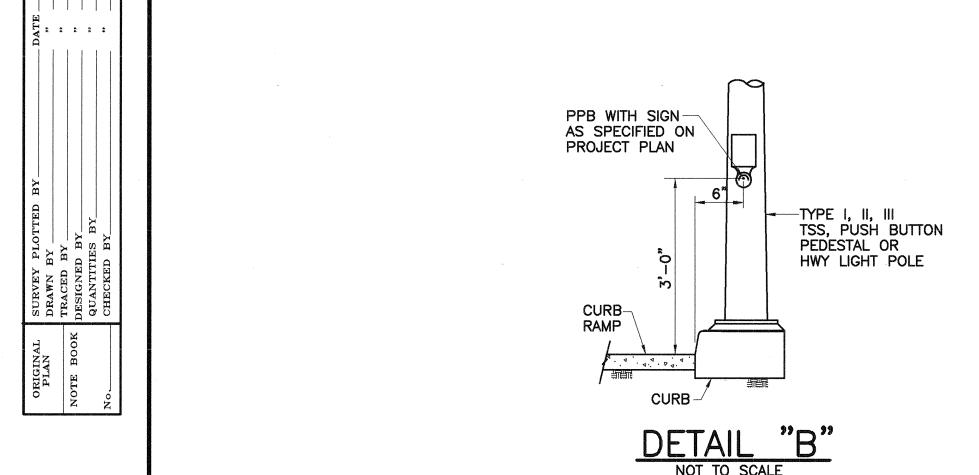


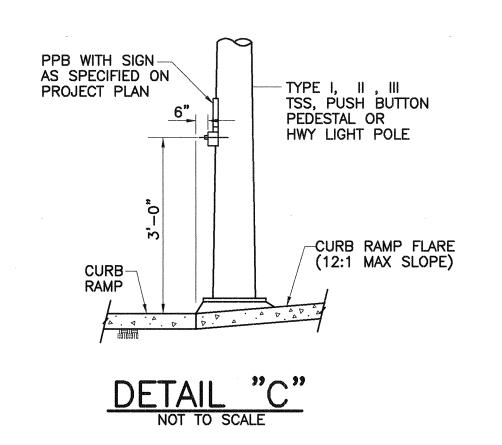
CURB RAMP — TYPE "C" MODIFIED

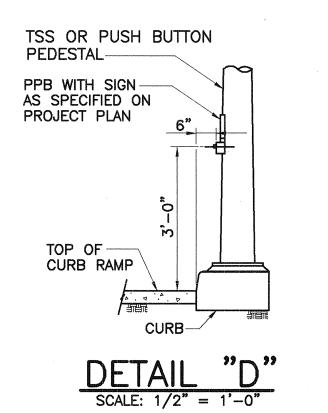
SCALE: 1/4" = 1'-0"



## CURB RAMP — TYPE "D" MODIFIED SCALE: 1/4" = 1'-0"









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FED. ROAD DIST. NO.

HAWAII

FISCAL SHEET YEAR NO.

PROJ. NO.

| 63A-01-97 | 1998 | 23

CURB RAMP DETAIL-TYPE "C" & "D"

LIKELIKE HIGHWAY TRAFFIC IMPROVEMENTS

VALLEY VIEW DRIVE TO H-1

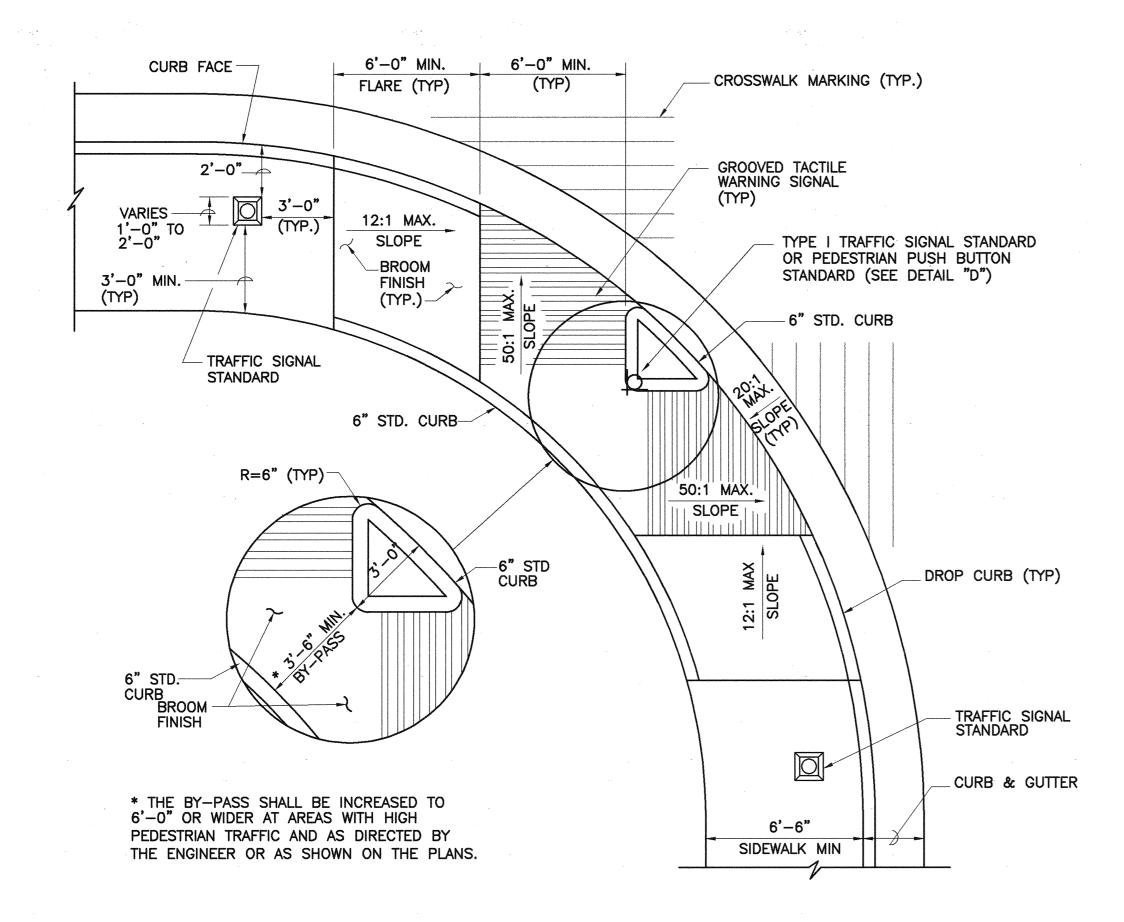
 Project No.
 63A-01-97

 Scale: AS NOTED
 Date: MAY 1998

 SHEET No.
 3 OF
 4 SHEETS

FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL SHEET NO. SHEETS

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CURB RAMP — TYPE "E"

SIDEWALK WIDTH 6'-6" OR GREATER

EXCLUDING CURB

(FOR EXISTING SIDEWALK ONLY)

SCALE: 1/4" = 1'-0"

K· KONDO LICENSED PROFESSIONAL ENGINEER

NO. 4575-C

AWAII

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CURB RAMP DETAIL - TYPE "E"

LIKELIKE HIGHWAY TRAFFIC IMPROVEMENTS

VALLEY VIEW DRIVE TO H-1

Project No. 63A-01-97
Scale: AS NOTED Date: MAY 1998

SHEET No. 4 OF 4 SHEETS