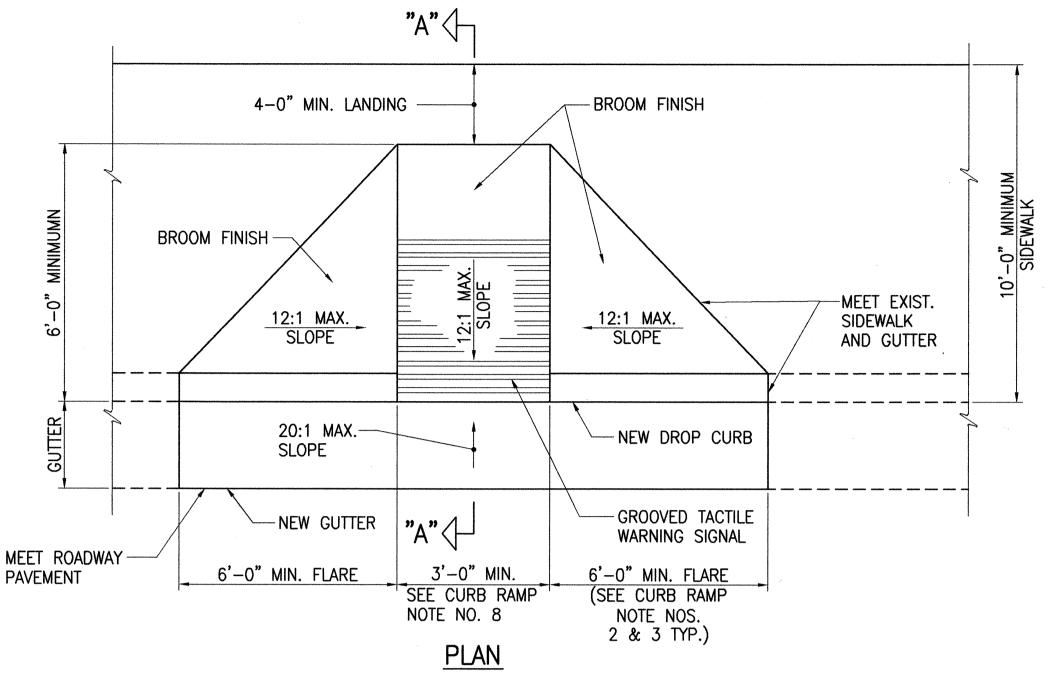
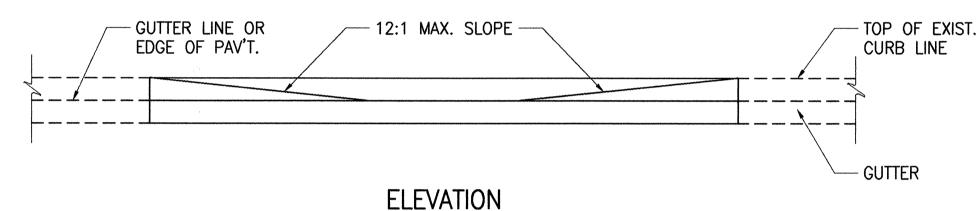
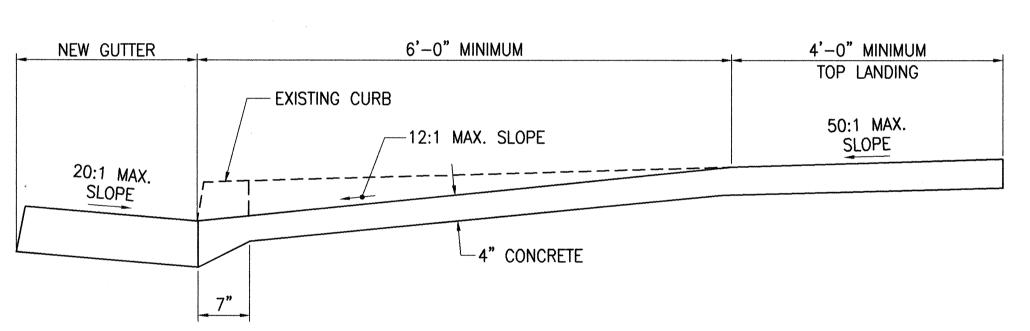
- WHERE NECESSARY, EXISTING PULLBOXES, HANDHOLES, MANHOLES, ETC. SHALL BE ADJUSTED TO MATCH CURB RAMP GRADE. EXCEPT FOR ADJUSTMENTS TO UTILITY PULLBOXES, HANDHOLES AND MANHOLES, ADJUSTMENTS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WHEELCHAIR
- 4. ALL SIDEWALKS SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 3'-0" (EXCLUDING CURB) FOR PEDESTRIAN CIRCULATION.
- 5. NARROW SIDEWALKS (3'-0" MIN. WIDTH EXCLUDING CURB) WILL PROHIBIT THE INSTAL-LATION OF ANY SIGN POSTS, UTILITY POLES, FIRE HYDRANTS, TRAFFIC SIGNAL STAN-DARDS, 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.
- 6. 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.
- 7. IF POSSIBLE, INSTALL UTILITY POLES, FIRE HYDRANTS, LIGHT POLES, SIGNS POSTS, PULLBOXES, ETC. OFF OF SIDEWALK BUT WITHIN THE RIGHT-OF-WAY.
- 8. SINGLE CURB RAMPS SERVING TWO STREET CROSSING DIRECTIONS IS PROHIBITED IN NEW CONSTRUCTION, UNLESS OTHERWISE SHOWN.
- 9. NEW CURB RAMPS SHALL BE INSTALLED AT 90° TO THE SIDEWALK OR TO THE MAXIMUM EXTENT FEASIBLE.
- 10. 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) ACCES-SIBILITY GUIDELINES AND WILL BE SUBJECT TO ENGINEER'S APPROVAL.

CURB RAMP NOTES

- 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 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 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 REQUIREMENT.
- 4. 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.
- 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), 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 SIDEWALK IS LESS THAN 4'-0", AN ENGINEER APPROVED, MODIFIED SIDEWALK WITH A MIN. 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 30" WIDE BY 48" 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).





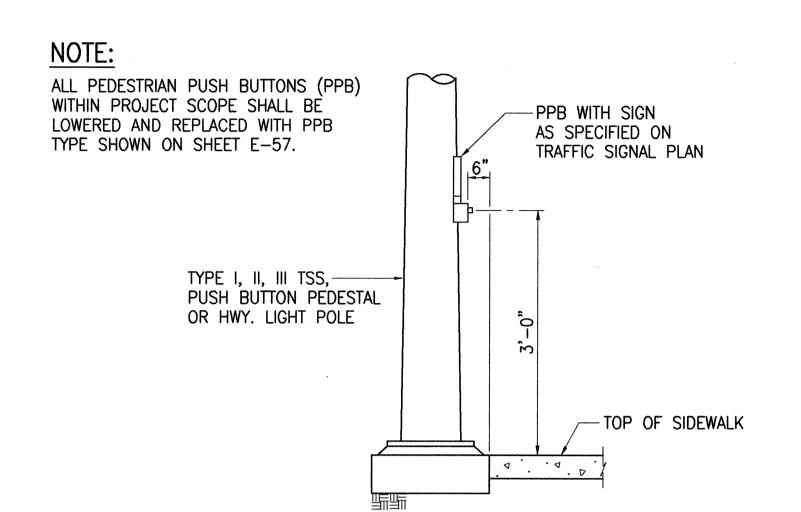


SECTION "A-A"

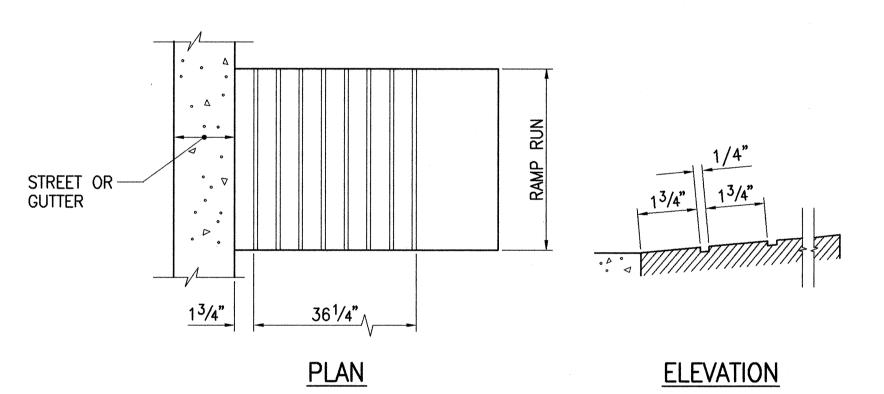
SIDEWALK WIDTH 10'-0" OR GREATER

CURB RAMP - TYPE "A" NOT TO SCALE

FISCAL SHEET YEAR NO. FED. AID PROJ. NO. FED. ROAD TOTAL STATE DIST. NO. SHEETS IM-H1-1(234) | 2000 | 117 557



NOT TO SCALE



GROOVED TACTILE WARNING SIGNAL NOT TO SCALE

LICENSED PROFESSIONAL **ENGINEER** No. 2055-C THIS WORK WAS PREPARED BY

ME OR UNDER MY SUPERVISION

Bujain G. Janoke

HIGHWAYS DIVISION CURB RAMP DETAILS

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

INTERSTATE ROUTE H-1 RESURFACING Vic. of Punchbowl Off Ramp to Kapiolani IC F.A.I Project No. IM-H1-1(234)

Scale: AS NOTED Date: JUNE 1, 1999

SHEET NO. CR1 OF 4 SHEETS

