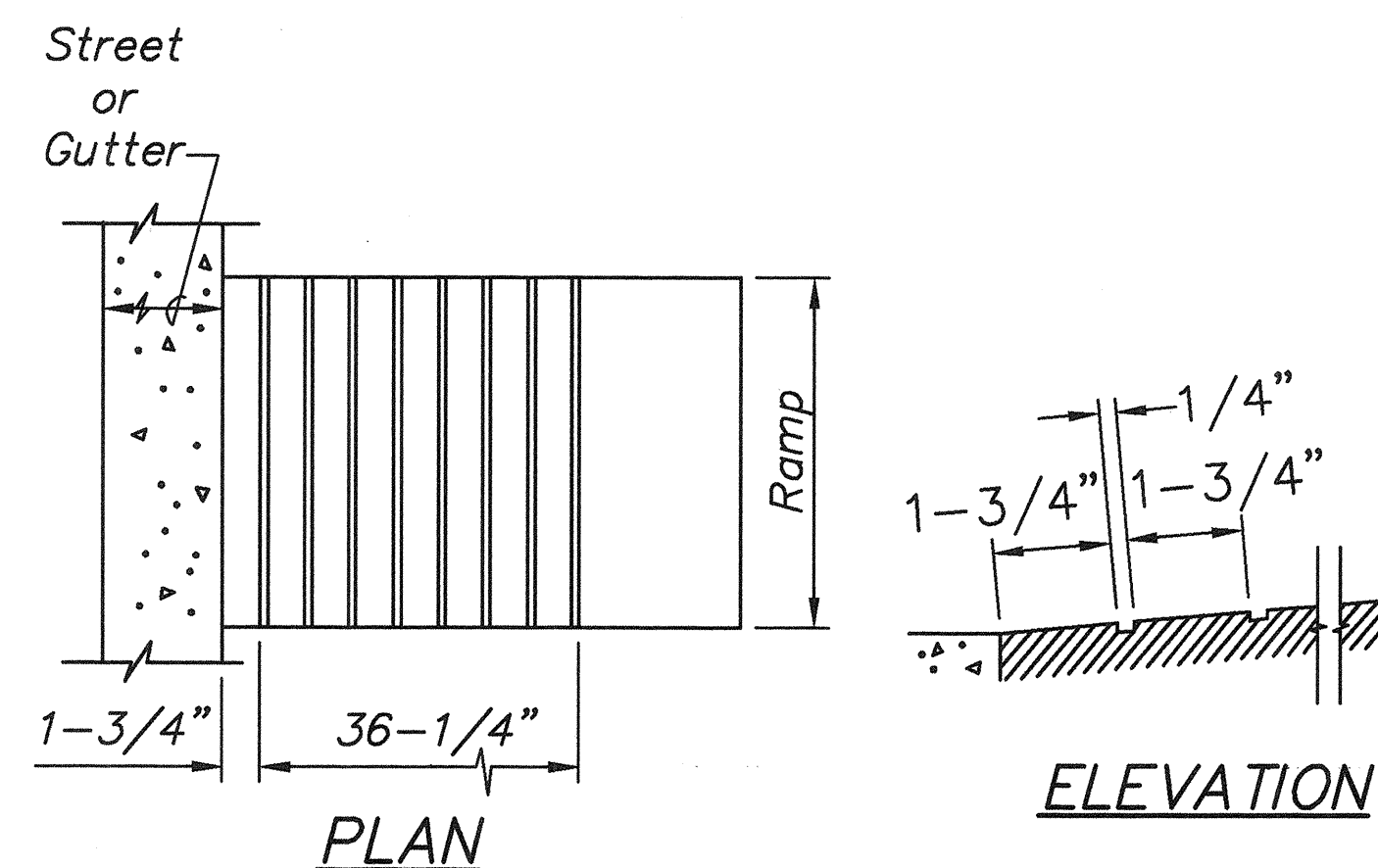


PM: STY
OPR: CKY,KKF,BKM,*RCQ
REVISED: 07/01/98

FILE: DOT96230
SCALE: 1=1
BEG: 5/16/97

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|---------------|------------------------------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ DATE _____ |
| NOTEBOOK | DRAWN BY _____ * |
| | TRACED BY _____ * |
| | DESIGNED BY _____ * |
| | QUANTITIES BY _____ * |
| No. _____ | CHECKED BY _____ * |

1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1 maximum. Area 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.
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 sidewalks less than 4'-0" (excluding curb), an Engineer approved 3'-0" wide minimum curb ramp shall be installed
7. The width of 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).



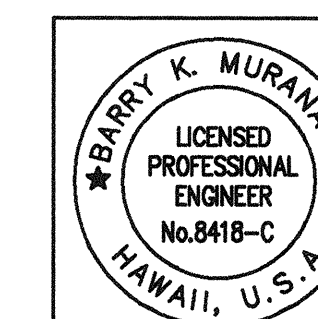
Technical drawing of a cross-section of a sidewalk and curb. The drawing shows a 10'-0" wide sidewalk with a 12:1 maximum slope on the left side, labeled "Broom Finish". A 6'-0" minimum by-pass is shown at the top. A 20:1 maximum slope is shown on the right side, also labeled "Broom Finish". A "New Drop Curb" is indicated. A "Grooved Tactile Warning Signal" is shown at the bottom. Dimensions include 6'-0" minimum, 3'-0" minimum, and 6'-0" minimum. A note at the bottom says "See Note No. 8".

Diagram illustrating a 12:1 Max. Slope for a ditch. The diagram shows a cross-section of a ditch with a 12:1 slope. Labels include "E.P." (Elevation Point) at the top left, "12:1 Max. Slope" indicating the steep side, and "Top of Exist. Curb Line" at the top right.

Diagram illustrating a proposed drainage system. The system includes a 20:1 Max. Slope, an Existing Curb, a 12:1 Max. Slope, a 4'-0" Min. By-Pass, a 50:1 Max. Slope, and a 4" Concrete section. A dimension of 6'-0" is shown for the minimum length of the by-pass section. A 7" dimension is also indicated for a specific segment.

SECTION "A-A"
CURB RAMP - TYPE "A"

SIDEWALK WIDTH 10'-0" OR GREATER



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Kalanianaʻole Highway
Guardrail and Roadway Improvements
Hanauma Bay to Sandy Beach
Federal Aid Project No. STP-072-1(41)
Scale: As Shown Date: Aug. 1998

SHEET NO. 26 OF 54 SHEETS