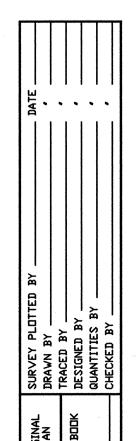
5:046 2002 01,

PREFIX: G: \Kai00-C FILE: KAI0032.dwg BEGIN: 12/26/00 SCALE: 1=1



-See Sht. 42 ' White Edge Stripe for Pavement Markinas —"STOP AHEAD" Tie into existing N Sign to be Relocated (County) Kamani Street "STOP" Sign to be Refocated (from etour Road) "END ROAD WORK" Sign to be Removed

COUNTY STANDARD TRAFFIC NOTES

Revised October 9, 2000

STRIPING PLAN & PAVEMENT MARKING

SCALE: 1" = 40'

- 1. All traffic signs and pavement markings shall conform to the latest edition of the "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," as amended, and applicable sections of Part V of the "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," dated September, 1984, and the "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," 1994 edition, unless otherwise specified on the plans, specifications, or the STANDARD TRAFFIC NOTES.
- 2. The Contractor shall install permanent or temporary pavement markers, striping and markings as required by Section 629 of the "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," 1994 edition. The temporary striping must be installed as close as possible to the final location to ensure proper lane widths & safe flow of traffic.
- 3. The Contractor shall inform the Traffic Division at least six (6) working days prior to any work on pavement markings operations and/or sign installations to schedule a review and approval of the striping and/or signing plans.
- 4. The approved striping plan shall be layed out using thinned—out paint or other approved device. Field adjustments shall be made as directed by the Engineer before the final markings are applied.
- 5. All pavement markings that become inapplicable shall be removed by the Contractor at his own expense. Removal shall be by "SAND-BLASTING" or by other methods approved by the Engineer before the new pavement markings are applied.

6. Pavement striping shall be with pre-mixed reflectorized oil-based lead-free traffic paints, which have been tested and pre—approved by the County of Hawai'i. Only the following traffic paints have been tested and pre-approved by the County of Hawai'i and are acceptable for use on this project:

Yellow Paint: Centerline V51L002

Pervo 5870RR White Paint: Centerline V51W002 Reflective Thermoplastic Compound Pavement Markings as specified in Sections 629 and 712.55 of the Hawai'i Standard Specifications for Road, Bridge and Public Works Construction (1994 Edition) may be used in lieu of paint for all pavement striping. The Contractor shall submit Certificate of Compliance certifying that the thermoplastic material to be used meets the current State of Hawai'i, Department of Transportation specifications. Type III Preformed Pavement Marking Tape, A420 or an equal pavement marking tape that is approved by the Traffic Division may be used for crosswalks, stoplines, pavement arrows, alphabets, & symbols.

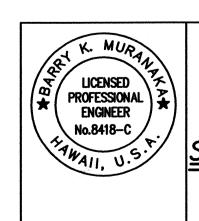
- 7. All painted pavement striping shall be applied in coats of 0.015 inch nominal thickness each. For striping on fresh a.c. (resurfaced or new pavements), two coats of paint must be applied. Second coat shall be applied only after complete drying of first coat. Wait at least 2 hours between coats. For striping on old existing pavements, one coat shall be sufficient.
- 8. Reflectorized raised pavement markers shall be the regular sized markers with approximate dimensions of 4"x4"x0.7". All raised pavement markers must have been tested and pre-approved by the County of Hawai'i. The Following pavement markers have been tested and pre-approved by the County of Hawai'i and are acceptable for use on this project:

Stimsonite Model 911 (4x4) Ray-O-Lite "AA" ARS (4x4)

FED. AID FISCAL PROJ. NO. YEAR SHEET TOTAL SHEETS HAWAII ER-12(3) 2002 43 107 HAW.

- 9. All traffic signs & posts shall meet the requirements of the County of Hawai'i Standard Detail T-1 EXCEPT THAT FLANGED CHANNEL POSTS WILL NOT BE ACCEPTABLE. Signs shall be on aluminum sheeting of 0.080 inch minimum thickness. Sign post shall be 2 inch square telespar tubing No. 20 F 12 or equivalent with 2 1/4 inch square telespar
- 10. All traffic signs shall be completely reflectorized with Type III or Type IV High Intensity Retroreflective Sheeting except that PARKING/NO PARKING & STREET NAME signs may be engineer grade reflective sheeting.
- 11. The 2 1/4 inch square anchor post for signs shall be driven into the ground, a.c. pavement or concrete sidewalk in accordance with the plans. All damages to the surrounding area shall be repaired to its original condition or better. Before driving into concrete, a neat hole of approximately 3 inch diameter shall be drilled through the concrete prior to the installation of the anchor post. If driving into the concrete or a.c. pavement is not possible without damage to the surrounding concrete or a.c. pavement, a 12"x12" squar shall be saw—cut and removed prior to the installation of the anchor post and then patched with hot mix to match the existing a.c. pavement, & concrete to match the existing concrete pavement.
- 12. Upon completion of the construction work the contractor shall restripe all pavement markings within the construction work area and adjacent roadway pavements up to 300 feet beyond the construction area. All signs & markings within the construction area and adjacent areas that have been damaged, removed, or adversely affected by the construction work shall be restored to its original condition or better by the contractor.
- 13. All dedicated streets must have Street Names which have been approved by resolution or by the Planning Department before acceptance of the street by the County of Hawai'i.
- 14. Install PRIVATE ROAD sign on private roadway. Sign shall be on 18" wide x 12" high aluminum plate with 4" black lettering on white reflectorized sheeting.
- 15. All signs & markings for private roadways shall be maintained by the private owners.

APPROVED: Division Chief, Engineering Division Department of Public Works



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

<u>KAMANI STREET - SIGNING</u> STRIPING & PAVEMENT MARKING PLANS

MAMALAHOA HIGHWAY EMERGENCY REPLACEMENT OF PAAUAU STREAM BRIDGE. IMPROVEMENTS AT KAMANI STREET, AND REHABILITATION OF VARIOUS BRIDGES

FEDERAL AID PROJECT NO. ER-12(3) THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Scale: As shown Date: Jan. 2002

SHEET NO. 1 OF 1 SHEETS

SCALE: 1" = 40

2/7/02

Date