4 each Type A Raised Pavement Markers

4 each Type J Raised Pavement Markers

4" Double Solid Yellow with Type D

Raised Pavement Markers @ 20'-0" o.c.

Raised Pavement Markers @ 20'-0" o.c.

Pavement Markers @ 40'-0" o.c.

(Tape, Type I or Thermoplastic Extrusion)

4" Double Solid Yellow Stripes with Type H

(Tape, Type II or Thermoplastic Extrusion)

4" Yellow Edge Stripe with Type H Raised

(Tape, Type II or Thermoplastic Extrusion)

4" Double Solid White Stripes with Type C

(Tape, Type I or Thermoplastic Extrusion)

Raised Pavement Markers @ 20'-0" o.c.

-4 each Type A Raised Pavement Markers

4" White Guide Lines (Tape, Type III or

- Type C Raised Pavement Markers @ 20'-0" o.c.

4" White Stripe (Tape, Type I or Thermoplastic

4" or 8" White Edge Stripe with Type C Raised

Thermoplastic Extrusion except for bus bays)

Transverse Median Marking (Tape, Type II or

Transverse Shoulder Marking (Tape, Type II or

Channelizing Island or Deceleration Lane Gore

(Tape, Type II or Thermoplastic Extrusion)

Crosswalk and Stop Line. All Stop Lines

indicates the number of lanes for payment

4 Each Type J Raised Pavement Markers

Surface facing no-passing direction)

Thermoplastic Extrusion)

(Tape, Type III or Thermoplastic Extrusion)

Pavement Arrow (Tape, Type III or Thermoplastic

Pavement Word (Tape, Type III or Thermoplastic

Type D Raised Pavement Markers @ 40'-0" o.c.

Type H Raised Pavement Markers (Reflective

4" Single Solid Yellow Stripe (Tape, Type I or

Extension of Edge Line, 4" Wide x 2'-0" Long White

Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c.

(Tape, Type III or Thermoplastic Extrusion)

shall be 10'-0" from Crosswalk unless

otherwise noted. The circled number

Pavement Markers @ 40'-0" o.c. (Tape, Type II or

Lane Change Restriction Marking

Thermoplastic Extrusion)

Thermoplastic Extrusion)

Thermoplastic Extrusion)

Extrusion)

Extrusion)

Extrusion)

Extrusion)

10', 10', 10', 10'

Type C Raised Pavement Markers @ 40'-0" o.c.

Type D Raised Pavement Markers @ 40'-0" o.c.

8" White Stripe with Type C Raised Pavement

Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic

NOTES

- 1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- 2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The removal of the existing pavement markings shall not be paid for separately but shall be considered incidental to the various pavement marking items.
- 3. Raised pavement markers shall not be installed within crosswalks.
- 4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans or directed by the Engineer shall not be paid for and shall be considered incidental to the various signing items.
- 6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- 7. All pavement striping shall be as noted on the Legend or plans.
- 8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- 9. Stop signs indicated to be removed shall be removed after the traffic signal system is operational.
- 10. Removal of Existing Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
- 11. Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- 12. Backing for all new regulatory and warning signs shall not be spliced.
- 13. All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Street and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
- 14. All new and relocated signs and markers installed on pipe post or light standard are to be mounted with band brackets and steel braces.
- 15. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645-Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Maui District Baseyard or as directed by the Engineer of the project.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	31B-01-94	1994	4	9

CONSTRUCTION NOTES

- 1. The scope of work for this project consists of installing a new traffic signal system with appurtenances, pavement striping and markings, and signing.
- 2. The contractor is reminded of the requirements of Subsection 108.01 -Subletting of Contract, which requires him to perform work amounting to not not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- 3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.13 - Public Convenience and Safety. Subsection 107.21 - Contractor's Responsibility for Utility Property and Services. Section 645 - Traffic Control.
- 4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- 5. Locations of existing underground structures and utilities such as pipelines, conduits, cables, etc., manholes, monuments, and structures shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the Contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the Contractor shall be repaired by the Contractor at his own cost.
- 6. Contractor shall provide for access to and from all existing side streets and driveways at all times.
- 7. The Contractor shall coordinate with the Engineer to make arrangements for Hawaiian Telephone Cable Maintenance Crew to assist in locating their underground cables. The Contractor shall give Hawaiian Telephone at least 2 weeks notice before starting any trenching operations.

SURVEY PLOTTE
DRAWN BY A. A.
TRACED BY
DESIGNED BY C.
QUANTITIES BY
CHECKED BY

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** TRAFFIC LEGEND, DETAILS & NOTES

PIILANI HIGHWAY Intersection Improvements at Lipoa Street PROJECT NO. 31B-01-94

Date: Jan., 1994 SHEETS

SHEET No. 1 OF 1