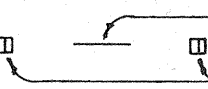

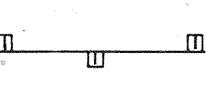


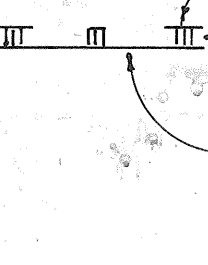



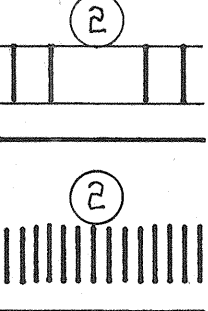





DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

## LEGEND

-  4 each Type A Raised Pavement Markers  
Type C Raised Pavement Markers  
@ 40'-0" o. c.
-  4 each Type J Raised Pavement Markers  
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 Extrusion)
-  4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o. c.  
(Tape, Type I or Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o. c.  
(Tape, Type or Thermoplastic Extrusion)
-  Lane Change Restriction Marking  
4 each Type A Raised Pavement Markers  
Type C Raised Pavement Markers  
@ 20'-0" o. c.  
4" White Stripe  
(Tape, Type I or Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o. c.  
(Tape, Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion Except for Bus Bays)
-  Channelizing Island or Deceleration Lane Gore  
(Tape, Type II or Thermoplastic Extrusion)
-  Crosswalk and Stop Line. All stop lines shall be 10'-0" from crosswalk unless otherwise noted. The circled number indicates the number of lanes for pavement (Tape, Type III or Thermoplastic Extrusion)
-  Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
-  STOP Pavement Word (Tape, Type III or Thermoplastic Extrusion)
-  4" Yellow Guide Lines (Tape, Type III or Thermoplastic Extrusion)

## NOTES

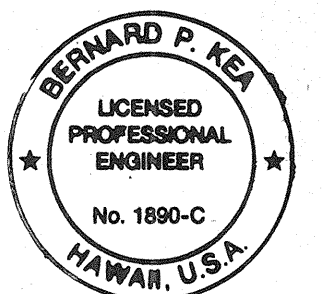
- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings and striping not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The removal of the existing pavement markings shall not be paid for separately but shall be considered incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- 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.
- Final locations of all stop lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the legend or plans.
- 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.
- Stop signs indicated to be removed shall be removed after the traffic signal system is operational.
- Removal of existing delineators and posts as directed by the Engineer shall be considered incidental to the various signing items.
- Existing signs that are to be removed or replaced shall not be removed until new signs are installed as replacements or the messages are no longer necessary.
- Backing for all new regulatory and warning signs shall not be spliced.
- All signs panels shall conform to Section 621 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
  - "Manual on Uniform Traffic Control Devices for Street and Highways" (MUTCD)
  - "Standard Highway Signs"
  - "Standard Alphabets for Highway Signs"
- All new and relocated signs and markers installed on pipe post or light standard are to be mounted with band brackets and steel braces.

- 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 Oahu District Baseyard or as directed by the Engineer at the end of the project. The contract price paid shall be full compensation for all excavation and backfilling for furnishing, installing, removing and delivering all materials and for all equipment, tools and incidentals necessary to complete the work.
- Final location of all sign post and traffic signal standard installed within the sidewalk areas shall maintain a minimum clear width of 36 inches from sidewalk edge to provide for wheelchair accessibility.
- All existing sign post(s) to remain within the sidewalk area shall meet the minimum clear width of 36 inches from the sidewalk edge. Where necessary, the existing sign post(s) shall be relocated to meet the minimum clear width. This work shall not be paid for separately but shall be considered incidental to the various signing items.

## CONSTRUCTION NOTES

- The scope of work for this project consists of installing a new traffic signal system with appurtenances, pavement striping and markings and signing.
- The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to 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.
- 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.
- 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.
- 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.
- Contractor shall provide for access to and from all existing side streets and driveways at all times.
- Maintenance of traffic through the construction area shall be in accordance with Part VI of the "Manual on Uniform Control Devices for Streets and Highways," Federal Highway Administration (1988) and as specified in the Special Provisions. The Contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the motoring public.
- The Contractor shall notify the Oahu Transit Services, Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes and the need to relocate any bus stop.
- Contractor shall provide 3' minimum clearance from all new signs with posts and traffic signal system facilities (signal standards, pipe guards, controller cabinets, pullboxes, etc.).

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-02-96	1997	3	19



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

*Bernard P. Kea*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## TRAFFIC LEGEND & NOTES

LIKELIKE HIGHWAY  
INTERS. IMPROVEMENTS AT ALU ST.  
PROJECT NO. 63A-02-96

DATE: FEB. 1997

SHEET NO. 1 OF 2 SHEETS