

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-7310(1)	2003	63	193

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 not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be 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.
- All pavement striping shall be as noted on the legend or plans.
- 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.
- Backing for all new regulatory and warning signs shall not be spliced.
- State route marker symbols shall conform to details shown on the plans and as specified in the MUTCD.
- All sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways" (M.U.T.C.D.)
 - "Standard Highway Signs"
 - "Standard Alphabets For Highway Signs"
- Borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the M.U.T.C.D.
- Sign messages shall be as indicated on the plan.
- All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 ft. Abutting edges of panels shall be in only one direction. If vertical abutting edges are used, no horizontal abutting edges shall be allowed and vice versa.
- All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
- 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 shall be incidental to the various signing items.
- Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as directed by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- Removing and reinstalling existing street name signs on regulatory and warning sign post shall not be paid for separately but shall be considered incidental to the various signing items.
- Install new Type II Object Markers on all utility poles or trees that are within the State Highway right of way and within 30 feet of the roadway edge of pavement as directed by the Engineer.
- Final locations of all stop lines shall be approved by the Engineer prior to installation.

- The Contractor shall notify the Traffic Signal Branch, Dept. of Transportation Services, City & County of Honolulu, 2 weeks prior to commencing any loop detector work.
- Dept. of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the loop detector work.
- The exact locations of the new loop detectors shall be determined in the field by the Engineer.
- The first letter of the Cardinal Direction words (NORTH, SOUTH, EAST, WEST) shall be 10 percent larger, rounded up to the nearest whole number size.

EXPRESSWAY (E) AND DESTINATION (D) SIGN NOTES

- The Contractor shall verify the locations and dimensions of existing Sign Panels and supports.
- New sign panels shall be laminated aluminum or extruded aluminum.
- Letter Size:
 - When letters are all uppercase, use series "E"
 - When initial uppercase letter is used in conjunction with lowercase letters, use series "E"(M) for uppercase
- Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.
- The amount and center-to-center spacing of Expressway Sign Luminaires shall be in accordance with the luminaires manufacturer's instructions. Maximum center-to-center spacing of luminaires shall be 10-feet.
- Destination and Expressway Sign Posts shall be as noted on the plans.
- All existing expressway sign luminaires that are not operational and to remain, shall be made operational. All additional materials and labor which are necessary to complete this work, shall be considered incidental to replacement of existing luminaires with 175-Watt metal halide, and no additional compensation will be allowed therefor.
- Existing damaged steel framing luminaire supports and/or ballast housing box shall be repaired or replaced prior to installing the new sign luminaires. This work shall be considered incidental to Item No. 622.2300 - Replacement of Existing Luminaires with 175-Watt Metal Halide Luminaires for Expressway Sign Lighting.
- Incidental parts and services, including sign lighting system, not shown on the plans or specified but deemed necessary for the sign installation, shall be furnished and installed by the Contractor as part of the work contracted.
- Removal and disposal of existing sign panels, posts with foundation, luminaires and supports will not be paid for separately, but shall be considered incidental to the various signing items.
- Connections of new sign luminaires to existing transformer and ballast housing and all incidental parts and service necessary will not be paid for separately, but shall be considered as incidental to replacement of existing luminaires with 175-Watt metal halide.

TRAFFIC NOTES:
(For Work on City & County Streets)

- A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction Traffic Control Plans approved by the Department of Transportation services must be provided when applying for the permit.
- The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets And Highways" adopted by the Director of Transportation and the current U.S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI-Traffic Controls for Street and Highway Construction and Maintenance Operations."
- Work on any city street area may be performed only between the hours of 8:30 a.m. and 3:30 p.m., Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
- During working hours, the Contractor shall provide for through traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
- As required by the Department of Transportation Services, the Contractor shall provide off-duty police officers to control the flow of traffic.
- Where pedestrian walkways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
- Driveways shall be kept open unless the owners of the property using these rights-of-ways are otherwise provided for satisfactorily.
- The Contractor shall reference, to the satisfaction of the Department of Transportation Services, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts and pavement markings disturbed by his activities. The Contractor shall notify the Department of Transportation Services at 523-4881 one (1) week prior to any work to be done on signs, posts or pavement markings.
- No material and/or equipment shall be stockpiled or otherwise stored within street rights-of-way except at locations designated in writing and approved by the Department of Transportation Services.
- The State Department of Transportation shall ensure that the Contractor installs the construction traffic control devices in accordance with the M.U.T.C.D. and Hawaii Administration Rules as specified in Traffic Note #2.

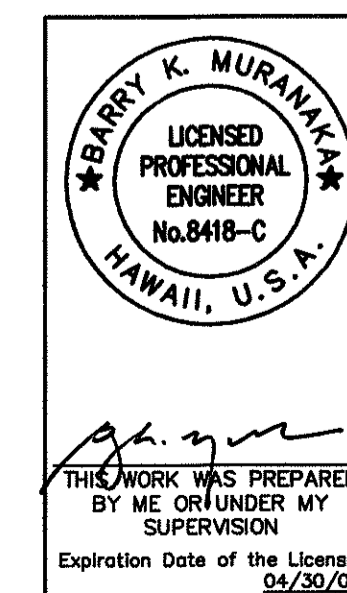
PUBLIC TRANSIT NOTE:

The Contractor shall notify Oahu Transit Services, Inc. (OTS), Ed Sniffen (848-4571) or Lowell Tom (848-4578), two weeks prior to construction, informing them of location, scope, of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.

PREFIX: C:\J\DOT\DOT\9601A P.M.: STY OPR: eij
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 CHECKED BY: _____
 REVISIONS BY: _____
 NO. _____


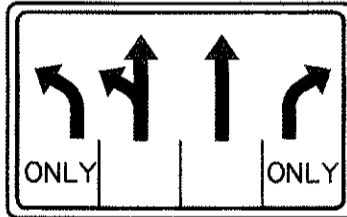
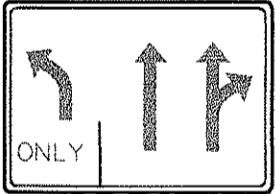

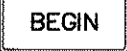
APPROVED:

[Signature]
 Chief, Traffic Review Branch, D.P.P.
 (For work within City R/W only) *[Signature]*
Date





STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**TRAFFIC, SIGNING AND
 PAVEMENT MARKING NOTES**
 PUULOA ROAD IMPROVEMENTS
 Kamehameha Hwy. to Salt Lake Blvd.
 Federal Aid Project No. STP-7310(1)
 Scale: As shown Date: May 2003

TRAFFIC SIGN SUMMARY

SIGN NUMBER	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/ POST	W/O POST	W/ POST	W/O POST
RELOCATE EXISTING SIGN		5	2	3	
D11-1	BIKE ROUTE	7	4		
R2-1(35)	SPEED LIMIT 35	2	3		
R5-1	DO NOT ENTER	1			
R6-1(L)	ONE WAY	1			
R7-1	NO PARKING ANYTIME	1			
R7-8	RESERVED PARKING (ADA)	4			
R7-9A	NO PARKING/BIKE LANE	5	7		
³	NO PARKING/ACCESS AISLE	2			
R9-3b	USE CROSSWALK		1		
W11-1	BIKE	6	1		
W11-2	PEDESTRIAN CROSSING	7	1		
D1-1c	VARIOUS		9		
W16-1	SHARE THE ROAD		2		
		4	1		
		1			
		2			
R7-201A	SUPPLEMENTAL PLATE		12 14		
W16-7P	SUPPLEMENTAL PLATE		4		
M7-1(L)	SUPPLEMENTAL PLATE		1		
M7-2	SUPPLEMENTAL PLATE		8		
M7-5	SUPPLEMENTAL PLATE		1		
M7-6	SUPPLEMENTAL PLATE		1		
M7-7	SUPPLEMENTAL PLATE		1		
			4		
			1		
	TOTAL	42 43	64	3 0	
³	RELOCATE EXISTING SIGN	5	2	3	

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
<i>Pavement Markers</i>	
Type A _____	180 Ea.
Type C _____	187 Ea.
Type D _____	41 Ea.
Type H _____	195 Ea.
Type DB _____	5 Ea.
<i>Tape - Type I or Thermoplastic Extrusion</i>	
4-inch Pavement Stripe (White) _____	1,531 L.F.
4-inch Pavement Stripe (Yellow) _____	1,854 L.F.
Double 4-inch Pavement Stripe (Yellow) _____	764 L.F.
8-inch Pavement Stripe (White) _____	781 L.F.
<i>Tape - Type II or Thermoplastic Extrusion</i>	
4-inch Pavement Stripe (White) _____	2,656 L.F.
4-inch Pavement Stripe (Yellow) _____	637 L.F.
Double 4-inch Pavement Stripe (Yellow) _____	3,125 L.F.
6-inch Pavement Stripe (White) _____	6,032 L.F.
8-inch Pavement Stripe (White) _____	637 L.F.
12-inch Pavement Stripe (White) _____	265 L.F.
12-inch Pavement Stripe (Yellow) _____	704 L.F.
<i>Tape - Type III or Thermoplastic Extrusion</i>	
4-inch Pavement Stripe (White) _____	26 L.F.
4-inch Pavement Stripe (Yellow) _____	132 L.F.
8-inch Pavement Stripe (White) _____	96 L.F.
12-inch Pavement Stripe (White) _____	370 L.F.
Pavement Arrows, Single _____	65 Ea.
Pavement Arrows, Double _____	2 Ea.
Pavement Word, "ONLY" _____	4 Ea.
Pavement Word, "STOP" _____	4 Ea.
Pavement Word, "BUS ONLY" _____	5 Ea.
Pavement Symbol,  _____	2 Ea.
Pavement Symbol,  _____	17 Ea.
Crosswalk Marking _____	29 Lanes
Yield Marking _____	1 Lane

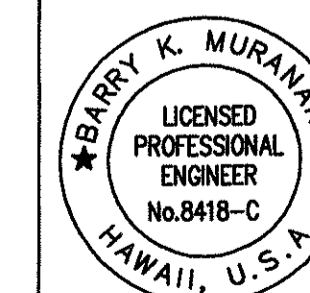
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HAWAII	HAW.	STP-7310(1)	2003	69	193

P.M.: STY OPR: rki
 CURRENT OPR: rki
 PREVIOUS OPR: rki
 CURRENT TIME: Feb 23, 2004 3:32pm
 LAST SAVED BY: mkf
 LAST MODIFIED: Mon, 23 Feb 2004 2:25pm

PREFIX: G:\DOT\H9601A\ACAD\
 FILE: TRAFFSUM0.dwg
 BEGIN: 12/01/99
 SCALE: 1=1

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

³	2/25/04	Replace Sheet Per Addendum No. 3
	DATE	REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC SIGN & PAV'T. MARKING SUMMARIES PUULOLOA ROAD IMPROVEMENTS Kamehameha Hwy. to Salt Lake Blvd. Federal Aid Project No. STP-7310(1)	
	Scale: As shown	Date: May 2003



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Expiration Date of the License: 04/30/04