

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-02-82	1984	3	29

LEGEND

- 12" RYG STANDARD TRAFFIC SIGNAL HEAD
- STANDARD TRAFFIC AND PEDESTRIAN SIGNAL HEADS MOUNTED ON TYPE I SIGNAL STANDARD, HEIGHT = 10'
- 20' TRAFFIC SIGNAL HEAD MOUNTED ON TYPE II SIGNAL STANDARD, ARM SPREAD SHOWN 20'
- ☒ TYPE "A" PULLBOX
- TYPE "B" PULLBOX
- ☐ LOOP DETECTOR, SERIES-PARALLEL CONNECTED
- ☐ LOOP DETECTOR, SERIES CONNECTED
- LP LIGHT POLE OR STREET LIGHT STANDARD
- PP POWER POLE
- GP GUY POLE
- * * * EXISTING STRIPING OR CURB TO BE REMOVED
- ▨ NEW A.C. PAVEMENT
- ↩ NEW PAVEMENT ARROW
- TS NEW TRAFFIC SIGNAL STANDARD
- EXISTING CROSSWALK MARKINGS
- ▨ NEW CROSSWALK MARKINGS
- EXISTING MARKINGS
- NEW 8" SOLID WHITE STRIPING WITH TYPE "C" PAVEMENT MARKERS
- NEW 4" DOUBLE SOLID YELLOW STRIPING WITH TYPE "D" PAVEMENT MARKERS
- NEW 4" DOUBLE SOLID YELLOW STRIPING WITH TYPE "H" PAVEMENT MARKERS
- W₆ EXISTING WATER LINE
- 1400--- EXISTING CONTOUR
- 1400— FINISHED CONTOUR
- 1400.0 FINISHED SPOT ELEVATION
- ▨ EXISTING PAVEMENT TO BE SCARIFIED AND REMOVED

CONSTRUCTION NOTES

- LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES SUCH AS PIPELINES, CONDUITS, CABLES, ETC., 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.
- THE LOCATIONS OF THE TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS WITH MAST-ARM, PEDESTRIAN PUSH BUTTONS, TRAFFIC CONTROLLER, PULLBOXES, CONDUITS AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR AND APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
- ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1978) AND AMENDMENTS.
- LOCATIONS OF PAVEMENT MARKERS AND MARKINGS (LANE LINES, STOP LINES, CROSSWALK, ETC.) SHOWN ON THE PLANS SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
- REMOVAL OF PAVEMENT STRIPING SHALL BE DONE BY THE CONTRACTOR. COST SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.
- MAINTENANCE OF TRAFFIC THROUGH THE CONSTRUCTION AREA SHALL BE IN ACCORDANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1978) 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.
- REMOVAL OF EXISTING SIGNS SHALL ALSO INCLUDE THE REMOVAL OF POSTS AND FOUNDATIONS UNLESS OTHERWISE NOTED. ALL SIGN MATERIALS REMOVED BY THE CONTRACTOR SHALL BE DELIVERED TO THE STATE HIGHWAYS MAINTENANCE BASEYARD AT 650 PALAPALA DRIVE, KAHULUI, MAUI. COSTS FOR REMOVAL OF SIGNS AND DELIVERY TO THE STATE HIGHWAYS MAINTENANCE BASEYARD SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK.

TRAFFIC SIGNAL NOTES

- ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
 - SIGNAL INDICATIONS DURING CLEARANCE INTERVAL:
 - IF A SIGNAL IS G OR ◀G AND WILL REMAIN G OR ◀G DURING THE NEXT PHASE, IT SHALL BE G OR ◀G DURING THE CLEARANCE INTERVAL.
 - IF A SIGNAL IS G OR ◀G AND WILL BECOME R OR EXTINGUISHED DURING THE NEXT PHASE, IT SHALL BE Y OR ◀Y DURING THE CLEARANCE INTERVAL.
 - IF A SIGNAL IS R AND WILL REMAIN R OR BECOMES G DURING THE NEXT PHASE, IT SHALL REMAIN R DURING THE CLEARANCE INTERVAL.
 - THE CONTROLLER FURNISHED SHALL BE A 2-4 PHASE CONTROLLER. A COORDINATION UNIT IS NOT REQUIRED FOR THIS PROJECT. HOWEVER, THE CABINET SHALL BE WIRED FOR INSTALLING IN THE FUTURE A COORDINATION UNIT OF THE SAME MANUFACTURER AS THE CONTROLLER UNIT. CONTROLLER SHALL BE MODULAR BY PHASE. NO KEYBOARD ENTRY TYPE OF PROGRAMMING SHALL BE USED.
 - MINIMUM CONTROLLER CABINET SIZE SHALL BE 40" HIGH, 24" WIDE AND 14" DEEP.
 - CONTRACTOR SHALL FURNISH A 50-AMPERE CIRCUIT BREAKER.
 - A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE TRAFFIC CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
 - THE LOOP AMPLIFIER UNITS FURNISHED FOR THIS PROJECT SHALL BE CAPABLE OF OPERATING THE LOOP DETECTOR CONFIGURATIONS SHOWN ON THE PLANS.
- * ~~CONTRACTOR ELECTED TO USE NO. 6 WIRE IN LIEU OF NO. 8.~~

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Theodore S. Kawahigash
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND AND NOTES

HALEAKALA HIGHWAY
Intersection Improvements at
Pukalani Street
Project No. 37C-02-82

NO SCALE DATE: 1-15-82
SHEET No. 1 OF 1 SHEETS