

# LEGEND

- STANDARD TRAFFIC AND PEDESTRIAN SIGNAL HEADS, MOUNTED ON TYPE I SIGNAL STANDARD, HEIGHT=10'
- PROGRAMMED VISIBILITY HEAD ON TYPE I STANDARD
- 12" RY+ TRAFFIC SIGNAL HEAD
- 12" RY6 STANDARD TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEADS MOUNTED ON TYPE II SIGNAL STANDARD; ARM SPREAD SHOWN 20' AND DISTANCE BETWEEN SIGNAL HEADS SHOWN 12 FEET
- 12" RY+ TRAFFIC SIGNAL HEAD
- STANDARD TYPE "B" PULL BOX
- STANDARD TYPE "A" PULL BOX
- TRAFFIC DETECTOR, SERIES PARALLEL CONNECTED
- EXISTING UTILITY LINES & SIZES AS INDICATED
  - W-WATER
  - S-SEWER
  - E-ELECTRIC
  - SD-STORM DRAIN
  - G-GAS
  - SP-SPRINKLER
  - T-TELEPHONE

# CONSTRUCTION NOTES:

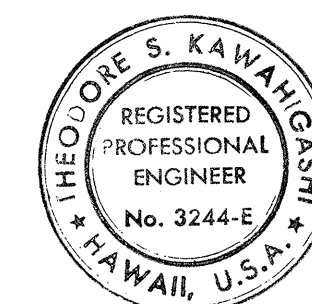
- LOCATIONS OF EXISTING UNDERGROUND STRUCTURES & UTILITIES, SUCH AS PIPELINES, CONDUITS, CABLES, ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES & STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE 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 CONTROLLERS, PULL-BOXES, CONDUITS AND TRAFFIC DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR AND APPROVAL OF THE LOCATIONS 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 (1971) AND AMENDMENTS.
- DEPARTMENT OF TRANSPORTATION SERVICES, CITY AND COUNTY OF HONOLULU, WILL ASSIST THE ENGINEER IN CONSTRUCTION INSPECTION FOR TRAFFIC SIGNAL SYSTEM.
- WORK BY THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY & COUNTY OF HONOLULU
  - TEST CONTROLLER AND AUXILIARY EQUIPMENT IN CABINET.
  - MAKE ALL ELECTRICAL CONNECTIONS IN THE FIELD FOR SIGNAL SYSTEM AFTER THE SYSTEM HAS BEEN INSTALLED IN PLACE BY THE CONTRACTOR.
  - MASK AND ADJUST ALL PROGRAMMED VISIBILITY TRAFFIC SIGNAL HEADS
  - FINAL ADJUSTMENT OF TRAFFIC SIGNAL CONTROL EQUIPMENT.
- REMOVAL OF EXISTING SIGNS SHALL ALSO INCLUDE THE REMOVAL OF POSTS AND FOUNDATIONS UNLESS OTHERWISE NOTED. ALL SUCH MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR, COSTS SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.
- LOCATIONS OF TRAFFIC MARKINGS & MARKERS (LANE LINES, STOP LINES, CROSSWALKS, ETC.) SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
- REMOVAL OF PAVEMENT MARKINGS AND STRIPINGS SHALL BE DONE BY THE CONTRACTOR, THE COST OF SUCH WORK SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.
- A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE 2GC#14 CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
- STOP SIGN INDICATED TO BE REMOVED SHALL BE REMOVED AFTER THE TRAFFIC SIGNAL SYSTEM IS OPERATIONAL.
- 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" FHWA, 1971. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, BLINKERS, CONSTRUCTION SIGNS, ETC. FOR THE SAFETY OF THE MOTORING PUBLIC.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HHG-018-1(20) F-009-1(6)	1977	2	17

# GENERAL NOTES:

- ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CABINET & 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 X DURING THE CLEARANCE INTERVAL
  - IF A SIGNAL IS R AND WILL REMAIN R OR BECOME G DURING THE NEXT PHASE, IT SHALL REMAIN R DURING THE CLEARANCE INTERVAL

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



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
MOANALUA ROAD  
TRAFFIC SIGNALS AT  
AIEA INTERCHANGE  
FED. AID PROJ. NO. HHG-018-1(20)  
KAMEHAMEHA HIGHWAY  
TRAFFIC SIGNALS AT  
FORD ISLAND FERRY GATE  
FED. AID PROJ. NO. F-000-1(6)  
LEGEND AND NOTES

DATE: AUG. 5, 1977

SHEET NO. 2 OF 17 SHEETS