HECO NOTES

- The Confractor shall exercise extreme caution when the excavation & construction crosses or is in close proximity of underground electrical facilities & maintain adequate clearance for his equipment while working close to and/or under the overhead facilities.
- . The Contractor shall obtain an excavation permit from HECO Mapping & Record Division, 4也 floor, 860 Ward Ave. two weeks prior to start of construction.
- Should it become necessary, any work required to relocate HECo facilities shall be done by HECo & cost shared by the State and HECo per Hawaii Keyised Statutes ?64:33. The State shall be responsible for all coordination.
- 4. When trench excavation is adjacent to or under existing structures or facilities, the Contractor shall be responsible for properly sheeting & bracing the excavation & stabilizing the existing ground to render it safe & secure from possible slides, cave-ins & settlement and for properly supporting existing structures & facilities with beams, struts or underpinning to fully protect if from damage.
- 5. The existing HECo facilities shown on the plans are approximate only. For verifying the location of underground duct lines. It for assistance in providing proper support to protection of the underground duct lines, the Contractor shall contact HECo Underground Division at 1548-1355 a minimum of 72 hours in advance.
- Any damage caused to HECo facilities shall be repaired by HECo with payment for this
 work to be borne by the Contractor.

BWS NOTES

- Unless otherwise specified, all materials & construction of water system facilities & appurtenances shall be in accordance with the Standard Specifications for Road And Bridge Construction," dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
- e. Prior to excavating for new drain, sewer, and other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances. Where the installation of new drain, sewer, or other utility lines are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.
- The minimum cleanance between fire hydrants & utility poles on light standards shall be 30 ft.
 The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
- 5. The existence & location of underground utilities & structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
- 6. Any adjustments to the existing water system required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

LEGEND

<u>_22</u>	Existing Traffic Signal Conduits */ New Cables
C	New Traffic Signal Controller
\boxtimes	New Type "A" Pullbox
	New Type B Pullbox
	New Traffic Signal Conduits & Cables
	New I?" Traffic Signal Head
	New 12" Traffic Signal Head (Programmed Visibility)
	New Pedestrian Signal Head
£ = →	New Type II Traffic Signal Standard (Mast Arm Length & Signal Head spacing as specified). Signal Heads as specified.
	New Tupe I Traffic Signal Standard. Signal Heads as specified.
□ ~	New Loop Detector
•	New Regulatory, Warning or Guide Sign
lo lo	Existing Regulatory, Warning or Guide Sign
	Existing Pavement Markers
	New Pavement Line
	Existing Pavement Line
W ₈	Existing Water Line & Size
5 ₈	Existing Sewer Line & Size
	Existing Drain Line & Size
	Existing Gas Line & Size
E	Existing Underground Electrical Conduit & Energized High Voltage Cables

Existing Underground Telephone Conduit

Existing Overhead Electrical Power Line

GENERAL NOTES

- All construction work shall be done in accordance with these plans, all applicable sections of the Standard Specifications for Road and Bridge Construction, dated 1976, as amended, of the State Highways Division, Dept. of Transportation & the project's Special Provisions, unless otherwise specified.
- All lanes shall be opened to traffic during the morning peak hours from 6:00 am, to 8:30 am, and during the afternoon peak hours from 3:00 pm, to 5:30 pm, and during off-work hours.
- Our ling oil the receive the control of the control
- 4. Full compensation for all additional materials & labor, not specifically shown or called for which are necessary to complete the construction of the project, shall be considered incidental to the various contract items in the proposal & no additional compensation will be allowed therefor.
- 5. The Contractor shall remove all silf & debris resulting from his work and deposited in drainage facilities, roadways & other areas. The costs incurred for any necessary remedial action by the Chrief Engineer shall be payable by the Contractor.
- 6. The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards & Regulations of the State Department of Health.
- 7. All exposed areas shall be sodded or planted immediately after the grading work has been completed.

HTCO NOTES

Existing telephone facilities shown on these plans are approximate only. The Contractor shall verify their actual locations, dimensions & details and shall make adjustments as directed by HTCo.

GAS NOTES (GASCO, INC.)

- The Gasco, Inc. oas pipe lines in the project area are plastic coated & cathodically protected. The Contractor shall be extremely careful when working near these oas pipe lines.
- Contractor to contact Gasco, Inc., five (5) working days prior to any excavation, for written clearance. (Ph. 547-3575)
- 3. The Contractor shall verify the exact locations & depths of existing gas lines prior to start of construction operations. The Contractor shall call Gasco, Inc. a minimum of 46 hours before starting excavation to arrange for field location of all existing gas pipe lines. The telephone number is 547-3575 during business hours & 547-3575 after hours.
- 4. The Contractor shall excavate 1 backfill around gas pipe lines in the presence of a Gasco, Inc. representative. All backfill within 5x inches of gas line shall be select crusher screening cushion material approved by Gasco, Inc.
- 5. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing as pipe lines, their coatings or their cathodic protection devices. Repair work on this damage will be done by Gasco, Inc. with payment for this work to be borne by the Contractor.
- Minimum vertical or horizontal clearance between as pipe lines & other pipe lines, conduits or duct lines shall be 12 inches. Adequate support & protection for gas pipe lines exposed in the trench shall be provided. Such support & protection will be approved by Gasco, Inc. If this clearance cannot be attained, the gas line shall be protected with a Gasco, Inc. approved insulation material furnished installed by the Contractor and the work must be approved by Gasco, Inc.
- 7. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipe lines exposed for as short a period of time as possible.

 APPROVED

CONSTRUCTION NOTES

1. 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 respon-
sibility of the Contractor to verify the locations of all existing utilities with the re-
spective owners. Existing utilities damaged by the Contractor shall be repaired by
the Contractor at his own cost

FED. ROAD DIST. NO.

HAWAII

STATE

PROJ. NO.

HAW. HES-064-1(1)

FISCAL SHEET YEAR NO.

1983

2. The locations of the traffic signal standards, traffic signal standards with mast-arm, pedestrian push buttons, traffic controller, pullboxes, conduits, barriers & loop detectors shall be staked out in the field by Contractor & approval of the locations obtained from the Engineer prior to construction & installation.

Department of Transportation Services, City & County of Honolulu will assist the Engineer in construction inspection for the traffic signal system.

4. Work by the Dept. of Transportation Services, C & C of Honolulu:

a. Test controller & sutiliary equipment in cabinet.

b. Make all electrical equipment connections in the field for signal system after the system has been installed in place by the Contractor.

c. Final adjustment of traffic signal control equipment.

 Removal of existing signs shall also include the removal of posts & foundations unless otherwise noted. All such materials shall be the property of the Contractor. Cost shall be incldental to other items of work.

 Locations of traffic markings & markers (lane lines, stop lines, pavement arrows, etc.) shown on the plans shall be verified by the Contractor with the Engineer prior to installation of the traffic signal system.

7. Removal of pavement markings & stripings shall be done by the Contractor.

- A solid *8 bare copper wire shall be pulled with the traffic signal control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
- 9. Stop signs indicated to be removed shall be removed after the traffic signal system is operational.
- 10. Restoration of existing pavements & improvements unavoidably damaged shall be incidental to the various contract items. Restoration shall be to original or better condition.
- 11. 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.
- 12. Maintenance of traffic through the construction area shall be in accordance with Part II of the "Manual on Uniform Traffic Control Devices for Streets and Highways, Federal Highway Administration (178) 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.

TRAFFIC SIGNAL NOTES

7/-82 DATE 91

Muland Klen

DIRECTOR & CHIEF ENGINEER, DPW (APPROVED FOR CONSTRUCTION WIN CITY R/W ONLY)

Aksoning

FOR CHIEF, PLANNING & BYGINEERING, BWS

CHIEF, DIVISION OF ENGINEERING, DPW (APPROVED FOR CONSTRUCTION WIN CITY R/W ONLY)

- All traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.
- The Contractor shall install each meter socket & 50 Amp, breaker on power pole as shown
 on the plans in accordance with HECo requirements. Meter shall be mounted between
 5 and 7 above ground. Meter socket shall be 4-prong, complete with a manual circuit
 closing device.

NOTES FOR CONSTRUCTION WITHIN CITY RIGHT-OF-WAY

All construction work within the City Right-of-Way shall be performed in accordance with the Standard Details for Public Works Construction, dated August 1976 as revised & the Standard Specifications for Public Works Construction, dated May 1975 of the Department of Public Works, City & County of Honolulu and the Revised Ordinances of Honolulu, 1978.

7/2, 152.

DATE

DATE

DATE

DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNALS ON SAND ISLAND ACCESS ROAD AT AUIKI STREET & PAHOUNUI DRIVE

NOTES & LEGEND

FA. Proj. No. HE5-064-1(1)

SCALE: AS SHOWN

DATE: JAN. 18, 1983

SHEET No. ? OF 15 SHEETS

SHEE