

GENERAL NOTES~

- 1. All construction work shall be done in accordance with these plans, all applicable sections of the Standard Specifications for Road and Bridge Construction, dated 1985 as amended, of the State Highways Division, Dept. of Transportation & the project's Special Provisions, unless otherwise specified.
- 2. All lanes shall be opened to traffic during the morning peak hours from 6:00 a.m. to 8:30 a.m. and during the afternoon peak hours from 3:30 p.m. to 5:30 p.m. and during off-work hours. Only one lane of Pali Highway shall be closed at any other time.
- 3. The Contractor shall provide, install and maintain all necessary signs, lights, flares, temporary concrete guardrails, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection & for the convenience & safety of public traffic. All such protective facilities & precautions to be taken shall conform with the "Rules and Regulations Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Highway Safety Coordinator & the U.S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Controls for Highway Construction and Maintenance Operations," dated 1978 & Revision No.4 dated Mar. 1986.
- 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.

GRADING NOTES~

- 1. All grading work shall be done in accordance with Chapter 23, Grading, Soil Erosion and Sediment Control, of the Revised Ordinances of Honolulu, 1978.
- 2. The Contractor shall remove all silt & debris resulting from his work and deposited in drainage facilities, roadways & other areas. The costs incurred for any necessary remedial action by the Chief Engineer shall be payable by the Contractor.
- 3. 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.
- 4. The underground pipes, cables or ductlines known to exist by the engineer from his search of records are indicated on the plans. The Contractor shall verify the location & depth of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations & depths prior to excavation for the new lines.
- 5. All slopes & exposed areas shall be sodded or planted immediately after the grading work has been completed.
- 6. The City shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
- 7. All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards contained in the Public Health Regulations, State Department of Health, on Water Pollution Control and Water Quality Standards.

HECO NOTES~

- 1. Location of HECO Facilities: The location of HECO's overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy and are not guaranteed as shown. The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines and shall maintain adequate clearance when operating equipment within or under any overhead lines.
- 2. Compliance with DOSH: The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
- 3. Excavation Permit: The Contractor shall obtain an excavation permit from HECO's Mapping & Records Division located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction.
- 4. Underground Lines: For verification of underground lines or for assistance in supporting and protecting these lines, the Contractor shall call HECO's Underground Division at 548-7395 a minimum of 72 hours in advance.
- 5. Excavations: When trench excavation is adjacent to or beneath our existing structures or facilities, the Contractor is responsible for:
  - a. Sheet piling and bracing the excavation to prevent slides, cave-ins and settlements.
  - b. Protecting existing structures or facilities with beams, struts or underpinning.
- 6. Pole Bracing: For pole bracing instructions, the Contractor shall call the HECO District Construction Superintendent at phone 548-7745 a minimum of 72 hours in advance.
- 7. Relocation of HECO Facilities: Any work required to relocate HECO facilities shall be done by HECO and the Contractor shall be responsible for all coordination, and for costs if applicable.
- 8. Damage to HECO Facilities: Any damage to HECO's facilities will be reported immediately to HECO's Trouble Dispatcher at phone 548-7961.

GENERAL UTILITY NOTES (ALL UTILITIES)~

- 1. The Contractor shall be liable for damage to any existing utility & structure.
- 2. The existence and location of underground utilities, appurtenances & structures as shown on the plans are based on existing records of varying degrees of accuracy & completeness. They are not guaranteed as to the location shown or that other obstacles may not be encountered in the course of work. The Contractor shall assume that existing utilities may exist, although not shown.
- 3. Restoration of existing pavements & improvements unavoidably demolished due to work on utility reconstruction shall be incidental to the various contract items. Restoration shall be to original or better condition.
- 4. The Contractor shall give all property owners five (5) days notice before entering into their respective properties.
- 5. The Contractor shall coordinate all work required to adjust, relocate or reconstruct existing utilities and structures.

WATER NOTES~

- 1. Unless otherwise specified, all materials and construction of water system facilities & appurtenances shall be in accordance with the Standard Specifications for Road and Bridge Construction, dated 1985, as amended, of the Hawaii Highways Division, Dept. of Transportation.
- 2. Prior to excavating for new drain, sewer & other utility lines, the Contractor shall verify in the field the location of existing water mains & appurtenances. Where the installation of new drain, sewer & 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.
- 3. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work.
- 4. Approval by the Board of Water Supply is based solely on adequacy of the water supply.
- 5. Discrepancies, if any, of alignments, grades, fittings, etc. shall be the responsibility of the Engineer who prepared the plans.
- 6. 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 work. The Contractor shall be responsible & shall pay for all damages to existing utilities.
- 7. 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.

HTCO NOTES~

- 1. The Contractor shall exercise extreme caution when the excavation & construction crosses or is in close proximity to telephone facilities and maintain adequate clearance for his equipment while working close to and/or under the overhead facilities.
- 2. For pole bracing instructions should field conditions and/or construction procedures require that poles be braced to facilitate construction, the Contractor shall call HTCO Operations Center at 836-6158 a minimum of 72 hrs. in advance. The Contractor shall obtain an excavation permit from HTCO Records Section (3rd Floor, 3239 Lualaba St.) prior to start of construction.
- 3. Should it become necessary, any work required to relocate HTCO facilities shall be done by HTCO. The Contractor shall be responsible for all coordination.
- 4. The Contractor shall report any damages to HTCO Dispatch Center at phone no. 537-5218.
- 5. The Contractor shall be liable for any damages to HTCO facilities.
- 6. For field location of HTCO facilities after permit has been obtained, contact HTCO Dispatch Center a minimum of 72 hours in advance.

HECO NOTES~

- 9. Temporary Relocation of HECO Facilities: Should it become necessary to temporarily relocate any HECO facilities to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations, these temporary relocations will be done by HECO, or by the Contractor under HECO's supervision, with all costs being borne by the Contractor.
- 10. Liability for Damages: All HECO overhead and underground facilities shown on these plans or whose approximate locations with the project boundaries have been made known by any reasonable means at any time to the Contractor shall be protected at all times by the Contractor during construction. Costs for damages to HECO facilities may be born by the Contractor. This repair work shall be done by HECO, or by the Contractor under HECO's supervision.

REAPPROVED:

G. Uyama  
CHIEF, DIVISION OF WASTEWATER MANAGEMENT, DPW 11/6/87 DATE

GAS NOTES (GASCO, INC.)~

- 1. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipelines exposed for as short a period of time as possible.
- 2. The Gasco, Inc. gas pipe lines in the project area are plastic coated & cathodically protected. The Contractor shall be extremely careful when working near these gas pipe lines.
- 3. Prior written clearance must be obtained from Gasco, Inc. at least five working days before starting excavation near these gas lines.  
Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call Gasco, Inc. a minimum of 48 hours before starting excavation to arrange for field location of existing gas lines. The telephone number is 547-3575 during business hours, and 526-0066 after hours.  
The Contractor shall excavate and backfill around gas pipelines in the presence of a Gasco, Inc. representative. All backfill within six inches of any gas pipe line shall be select cushion material approved by Gasco, Inc.
- 4. For relocation of any gas pipeline, the Contractor shall notify Gasco, Inc. five working days before starting work. The Contractor shall provide the necessary excavation and backfill, arrange for traffic permits, and restore sidewalk, pavement, or other facilities. Any relocation of gas facilities shall be done by Gasco, Inc.
- 5. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing gas 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.
- 6. Minimum vertical or horizontal clearance between gas 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 & approved by Gasco, Inc.

WATER NOTES (CONT'D)~

- 8. At the electrical/signal ductline water crossings, adjust all electrical/signal ductline elevation to maintain 6" vertical clear separation from all waterlines (12" clear for all electrical/signal ductline structures larger than 18") at no cost to the BWS.
- 9. Maintain 3'-0" min. horizontal clear separation between all water line systems and nearest electrical/signal ductlines paralleling the water system at no cost to the BWS.
- 10. Maintain 3'-0" min. horizontal clear separation between street light/traffic signal, standards (including any modular units) and the nearest water line system. Contractor shall field verify for any conflicts at each street light/traffic signal standard location. Where conflicts occur, the Contractor shall coordinate with Project Engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the BWS.

CONSTRUCTION NOTES ~ SEE SHEET NO. 7

SEWER NOTES~

All construction shall be performed in accordance with these plans, the City & County Standard Specifications, Sept. 1986, the latest Division of Wastewater Management's Standard Details, Sept. 1984, as revised, current City practices & the Revised Ordinances of Honolulu, 1978.

REAPPROVED:

for [Signature] 4/10/87  
CHIEF, PLANNING & ENGINEERING, BWS DATE

APPROVED:

for [Signature] 10-21-80  
CHIEF, PLANNING & ENGINEERING, BWS DATE

[Signature]  
GASCO, INC. DATE

[Signature]  
CHIEF, DIV. OF WASTEWATER MGT., DPW DATE

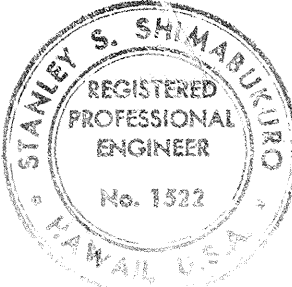
[Signature]  
CHIEF DIVISION OF ENGINEERING, DPW (FOR GRADING & CONSTRUCTION WITHIN CITY RIGHT-OF-WAY ONLY) DATE

[Signature]  
HAWAIIAN ELECTRIC CO., INC. 12/2/80 DATE

[Signature]  
HAWAIIAN TELEPHONE COMPANY 12-8-80 DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-06-1(23)	1988	6	49

1/21/89	Add. Water Notes 8,9 & 10; Reapproval Signature
DATE	REVISION



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
Stanley S. Shima

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL & UTILITY NOTES

IMPROVEMENTS ALONG PALI HIGHWAY  
BETWEEN NIOLOPA PL. & WAOKANAKA ST.  
PROJECT NO F-06-1(23)

SHEET NO. 1 OF 1 SHEETS

DATE	____
SURVEY PLOTTED BY	____
DRAWN BY	____
DESIGNED BY	____
NOTED BY	____
CHECKED BY	____
ORIGINAL PLAN	____
NOTE BOOK	____
No.	____