GENERAL NOTES

- 1. The scope of work for this project consists of installing a new traffic signal system, striping and signing.
- 2. The Contractor is reminded of the requirements of Subsection 108.01 -Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- 3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.13 - Public Convenience and Safety. Subsection 107.21 - Contractor's Responsibility for Utility Property and Services. Section 645 - Traffic Control.
- 4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- 5. Locations of existing underground structures and utilities such as pipelines, conduits, cables, etc., manholes, monuments, and structures 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.
- 6. Contractor shall provide for access to and from all existing side streets and driveways at all times.
- 7. Maintenance of traffic through the construction area shall be in accordance with Part VI, "Standards and Guidlines for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations", of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988 Edition), to include all Revisions and Errata Sheets to Part VI 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. This work shall be considered incidental to various contract items.
- 8. Smooth riding connections shall be constructed at all limits of construction as shown on the plans and/or as directed by the Engineer.
- 9. All saw cutting work shall be considered incidental to various contract items.
- 10. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
- 11. The Contractor shall adjust flush to finish grade all pullbox, and handhole frames & covers, including those not shown on the plans, if there is a change in grade due to construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract item.
- 12. All necessary permits for work within the jurisdiction of the County of Hawaii shall be obtained by the Contractor at his own cost.
- 13. Dressing of shoulder, shall consist of clearing, grubing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130A-01-99	2000	3	18

HAWAIIAN TELEPHONE GENERAL NOTES

- 1. The location of GTE Hawaiian Telephone Company's existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity of GTE Hawaiian Telephone Company facilities. The Contractor shall verify their locations and shall be liable for any damages to GTE Hawaiian Telephone Company facilities. Any damages shall be reported immdiately to GTE Hawaiian Telephone Company's Repair Section at #611 (24 hours) or the Excavation Permit Section at 933-6411 (normal working hours, Monday through Friday, except holidays).
- 2. For underground cable locating and marking, five working days advance notice is required. Three working days advance notice is required for any inspection by a designated representative.
- 3. The Contractor shall take necessary precaution not to damage any existing cables or conduits. Any work involving existing GTE Hawaiian Telephone Company cables or conduits, shall be done in the presence of a GTE Hawaiian Tel inspector or designated representative.
- 4. The Contractor shall obtain an excavation permit and toning request from GTE Hawaiian Telephone Company's Excavation Permit Section at 933-6411, two weeks prior to start of construction. Hours of business are 7:00 a.m. to 10:30 a.m. and 11:30 a.m. to 3:00 p.m., Monday through Friday, except holidays.
- 5. The Contractor shall notify GTE Hawaiian Telephone Company's inspector or designated representative 72 hours prior to excavation, bracing, or backfilling of GTE Hawaiian Telephone Company's structures or facilities.
- 6. When excavation is adjacent to or beneath GTE Hawaiian Telephone Company's existing structures or facilities, the Contractor shall:
 - a. Sheet and/or brace the excavation to prevent slides, cave-ins, or settlements to ensure no movement to GTE Hawaiian Telephone Company's structures or facilities.
 - b. Protect existing structures and/or facilities with beams, struts, or underpinning while excavating beneath them to ensure no movement to GTE Hawaiian Telephone Company's structures or facilities.

Project No. 130A-01-99

Not To Scale

Date: April, 2000

ORIGINAL PLAN NOTE BOOK tdl.ruby NAKprtgni.dgn

GENERAL NOTES KEAAU-PAHOA ROAD Installation of Traffic Signals at Pahoa-Kapoho Road

ELECTRICAL NOTES:

- 1. Hawaii Electric Light Co. shall assist the contractor in Power Source connection.
- 2. The Contractor shall make all electrical connections to controller, provide breaker, ground and 2" PVC conduit, Schedule 80.
- 3. Contractor shall provide HELCO one week advance notice for any work done by HELCO.
- 4. A utility company standby man is required to be at the site at the time any non-utility company personnel will be breaking into or entering any facilities that contain energized utility company equipment or cables.
- 5. The installation of the meter pedestal for underground service will not be paid for separately but shall be considered incidental to the Meter Socket and Breaker.

DEPARTMENT OF WATER SUPPLY NOTES:

- 1. All work shall be done according to the Water System Standards, State of Hawaii, Volumes 1 and 2, dated 1985, as amended.
- 2. The Contractor shall inform the D.W.S. Engineer 72 hours prior to the beginning of any waterline work and one week prior to any connection, chlorination, shut-off or relocation.
- 3. All work and material furnished by the D.W.S. shall be paid for by the Contractor.
- 4. All existing waterline, waterline appurtenances and other utility locations shown on the plans are obtained from latest reliable sources. The Contractor shall be responsible to verify the exact location of all utilities in the field and shall bear all costs for damages done unto them during the contract period.
- 5. All hook-ups to existing waterlines shall be done by the Department of Water Supply. The Contractor shall provide all excavation, backfill, road repair, traffic control, etc.
- 6. Where water shut-off of more than 3-hours becomes necessary, the Contractor, at his own cost, shall provide a temporary bypass line, size of which shall be determined by the D.W.S. Engineer. The D.W.S. Engineer, also reserves the right to require bypass lines, regardless of the water shut-off period, if it is deemed necessary.
- 7. Minimum horizontal clearance between waterlines and other utilities shall be 8-feet for road right-of-ways of 50 feet or less, minimum vertical clearance between waterline and other utilities shall be 12-inches provided the other utility is concrete jacketed and 18-inches if no concrete jackets are used. In all applicable instances the waterlines shall be at a grade higher than other utilities. Minimum horizontal clearance between waterline and other utilities shall be 10-feet for road right-of-ways of more than 50-feet.
- 8. All fittings (Class 250) and all gate valves (Class 200) shal be ductile iron, with mechanical joints unless otherwise specified. Butterfly vlaves shall be class 250 with epoxycoated interior unless otherwise specified.
- 9. The waterline shall be tested at a minimum of 225 p.s.i. or one and a half times the static pressure at the low point, under D.W.S. supervision just prior to paving the roadways.
- 10. The Contractor shall be responsible for the chlorination of the water system and shall bear all cost. The persons engaged to do the chlorination work must have the appropriate license to perform the work in the state of Hawaii.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130A-01-99	2000	4	18

<u>LEGEND</u>

e	Existing Electrical Line	—_ 4 —12—	Existing Sewer Line
——E——	New Electrical Line	—— <i>S—12</i> —	New 12" Sewer Line
°j₽	Existing Joint Pole	° smħ	Existing Sewer Manhole
$^{\circ}\!$	Existing Power Pole	SMH	Adjusted Sewer MH Frame/
°emh	Existing Electric Manhole	Simil	Cover
EMH	Adjusted Elec. MH Frame/	•SMH	New Sewer Manhole
LIMIT	Cover	—-g—6—	Existing 6" Gas Line
[●] EMH	New Electric Manhole	—G—6—	New 6" Gas Line
t(u)	Existing Underground Telephone Line	°gv	Existing Gas Valve Box
t(σ)	•	GV	Adjusted Gas Valve Box
—— X(0/——	Existing Overhead Telephone Line	● GV	New Gas Valve Box
—— <i>T</i> ——	New Telephone Line	°gmħ	Existing Gas Manhole
$^{\circ}t ho$	Existing Telephone Pole	GMH	Adjusted Gas MH Frame/ Cover
° tmħ	Existing Telephone Manhole	•GMH	New Gas Manhole
[©] TMH	Adjusted Tele. MH Frame/ Cover	© _{mon.}	Existing Monument
● <i>THU</i>	New Telephone Manhole	MON.	Adjusted Monument
— ≯ c	Existing Signal Corps Line	O _{MON} .	New Monument
SC	New Signal Corps Line	d24	Existing 24" Drain Line
tv	Existing TV Cable	24" RCP	New 24 " RCP Drain Line
TV	New TV Cable	°sdmh	Existing Storm Drain Manhole
		2	
w12	Existing 12" Water Line	CUMU	Adiusied Storm Drain Mit
<i>w12</i> W 12	Existing 12" Water Line New 12" Water Line	SDMH	Adjusted Storm Drain MH Frame/Cover
		[●] SDMH	Frame/Cover New Storm Drain Manhole
W12	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/	[●] SDMH	Frame/Cover
W12 °wmħ ••WMH	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover	[●] SDMH	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet
W12 °wmħ •WMH	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin
W-12 °wmħ °WMH •wMH °av	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve	[●] SDMH ⊟gđi	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting
W-12 °wmħ °WMH °av °AV	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard
W-12 owmh wmh wmh av Av Av	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting
W-12 owmh owmh owmh oav av Av owv	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve New Water Air Valve	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard Existing Transformer Box
W-12 owmh wmh oav AV av wv	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve New Water Air Valve Existing Water Valve Existing Water Valve Box	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard Existing Transformer Box Existing Tree to be Trimmed of Lowest
W-12 owmh owmh owmh oav av Av owv	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve New Water Air Valve Existing Water Valve Box Adjusted Water Valve Box	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard Existing Transformer Box
W-12 owmh wmh oav av Av wv wv wv	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve New Water Air Valve Existing Water Valve Box Adjusted Water Valve Box New Water Valve Box	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard Existing Transformer Box Existing Tree to be Trimmed of Lowest
W-12 °wmh °WMH °av °AV °AV °wv °wv °wv °wv	New 12" Water Line Existing Water Manhole Adjusted Water MH Frame/ Cover New Water Manhole Existing Water Air Valve Adjusted Water Air Valve New Water Air Valve Existing Water Valve Box Adjusted Water Valve Box New Water Valve Box Existing Water Meter	SDMH gdi cb	Frame/Cover New Storm Drain Manhole Existing Grated Drop Inlet Existing Catch Basin Existing Traffic Sign Existing Highway Lighting Standard Existing Transformer Box Existing Tree to be Trimmed of Lowest

New Fire Hydrant

♣_{FH} Adjusted Fire Hydrant

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>GENERAL NOTES & LEGEND</u>

Installation of Traffic Signals at

KEAAU-PAHOA ROAD

Pahoa-Kapoho Road Project No. 130A-01-99

Date: April, 2000

SHEET No. 2 OF 2 SHEETS