

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-06-98	2001	4	68

GENERAL NOTES

- The scope of work for this project consists of installing drainage structures, concrete barriers, traffic signal systems, and a highway lighting systems; and removing and installing signs and pavement markings.
- 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.
- 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.
- 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.
- 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.
- Contractor shall provide for access to and from all existing side streets and driveways at all times.
- Maintenance of traffic through the construction area shall be in accordance with Part VI, "Standards and Guidelines 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.
- Smooth riding connections shall be constructed at all limits of construction as shown on the plans and/or as directed by the Engineer.
- The exact limits of pavement lengthening/widening areas shall be determined in the field by the Engineer.
- All saw cutting work shall be considered incidental to the various contract items.
- 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.
- Earth swale shall be graded to drain. Earth swale shall not be paid for separately, but shall be considered incidental to the various contract items.
- The Contractor shall adjust flush to finish grade all manhole, valve, 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.

- All necessary permits for work within the jurisdiction of the City and County of Honolulu shall be obtained by the Contractor at his own cost.
- Dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, 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.
- The Contractor shall comply with the policy adopted by the Department of Design and Construction, City and County of Honolulu, concerning restoring pavements and other improvements after excavation work within City and County Right-of Way.
- A Minimum 3'-0" Width Accessible Route shall be Maintained Along the Entire Length of Sidewalk, Unobstructed by Poles, Signs, etc.

DEPARTMENT OF TRANSPORTATION SERVICES - TRAFFIC SIGNALS & TECHNOLOGY DIVISION NOTES:

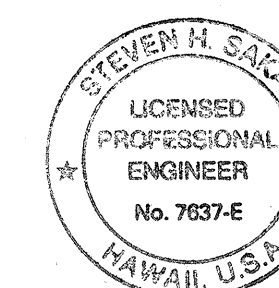
- The Contractor shall notify the Traffic Signals & Technology Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system (phone: 523-4589).
- The traffic signal system shall be kept operational during construction. Any relocation required shall be approved by the Traffic Signals & Technology Division, Department of Transportation Services, and performed and paid for by the Contractor.
- The Contractor shall be responsible for any damages to existing traffic signal facilities, including the traffic signal interconnect system. Any and all damages to these facilities shall be repaired by the Contractor at his cost in accordance with the requirements of the City and County of Honolulu.
- The Contractor shall be responsible for any damages to existing traffic signal fiber optic cable system. Any and all damages to these facilities shall be repaired by the Contractor at his cost in accordance with the requirements of the City and County of Honolulu.

DEPARTMENT OF TRANSPORTATION SERVICES - PUBLIC TRANSIT DIVISION NOTES:

- The Contractor shall notify Oahu Transit Services, Inc. (OTW-THEBUS Contractor), Ed Sniffen (848-4571) or Lowell Tom (848-4578), two weeks prior to construction, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stops.

EXISTING FACILITIES LEGEND

mon.	Existing Monument
ep	Existing Joint Utility Pole
at&t	Existing AT&T Line
w-24"	Existing 24" Water Line
wmh	Existing Water Manhole
wv	Existing Water Valve Box
av	Existing Water Air Valve
fh	Existing Fire Hydrant
d-24"	Existing 24" Drain Line
sdmh	Existing Storm Drain Manhole
gdi	Existing Grated Drop Inlet
cb	Existing Catch Basin
smh	Existing Sewer Manhole
s-8"	Existing Sewer Line
g-2"	Existing 2" Gas Line
gmh	Existing Gas Manhole
tspb	Existing Traffic Signal Pullbox
ts	Existing Traffic Signal Pole
ts	Existing Traffic Signal Conduits
b	Existing Sign With 1 Post
B	Existing Sign With 2 Post
e/oh	Existing Electric & Telephone Line (overhead)
250W	Existing 250W Street Light Luminaire and Bracket Arm
150W	Existing 150W Street Light Luminaire and Bracket Arm
sl	Existing Street Light Conduits
sl/oh	Existing Street Light Line (overhead)
ts/c	Existing Traffic Signal Conduits & Cables
ts/h	Exist. Traffic Signal Standard & Signal Head
ts/h	Exist. Pedestrian Signal Head
tspb	Existing Traffic Signal Pullbox
ld	Existing Loop Detectors



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Steven H. Sato

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
NOTES & LEGEND	
FARRINGTON HIGHWAY Intersection Improvements at Waiomea Street Project No. 93A-06-98	
Scale: None	Date: AUGUST 2000
SHEET No. T-4 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-06-98	2001	5	68

HECO NOTES

1. 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. The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
3. The Contractor shall obtain an excavation permit from HECO's Mapping and Records Division located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction.
4. For verification of underground lines or for assistance in supporting and protecting these lines, the Contractor shall call HECO's Underground Division at 543-7345 a minimum of 72 hours in advance.
5. When trench excavation is adjacent to or beneath our existing structures or facilities, the Contractor is responsible for:
 - a. Sheeting and bracing the excavation to prevent slides, caveins, and settlements.
 - b. Protecting existing structures or facilities with beams, struts, or under-pinnings.
6. For pole bracing instructions, the Contractor shall call the HECO District Superintendent at (Koolau/261-6085, Waiiau/543-4223, Ward/543-7745) a minimum of 72 hours in advance.
7. Any work required to relocate HECO facilities shall be done by HECO and the Contractor shall be responsible for all coordination, and for possible costs it applicable.
8. Should it become necessary to temporarily relocate any of 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 borne by the Contractor.
9. Any unforeseen conflict that would result in the redesign or relocation (either temporary or permanent) of HECO's electrical facilities may be cause for lengthy delays. To avoid such delays, the Contractor must notify HECO of the conflict a minimum of 30 days prior to the start of construction.
10. Any damage to HECO's facilities will be reported immediately to HECO's Trouble Dispatcher at 543-7874.
11. All HECO overhead and underground facilities shall be protected at all times by the Contractor during construction. Costs for damages to HECO facilities shall be borne by the Contractor. This repair work shall be done by HECO, or by the Contractor under HECO's supervision.
12. The Contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims and actions, all expenses incidental to such losses, damages, claims or action, based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor's indemnity shall not be applicable to any liability upon the sole negligence of HECO.

GTE HAWAIIAN TELEPHONE COMPANY NOTES

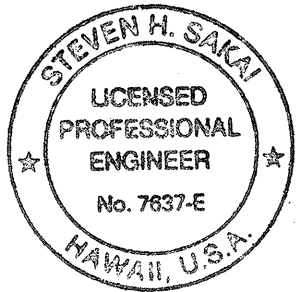
1. The location of GTE Hawaiian Tel's existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity to GTE Hawaiian Tel's facilities. The Contractor shall verify their locations and shall be liable for any damages to GTE Hawaiian Tel's facilities. Any damages shall be reported immediately to GTE Hawaiian Tel's Repair Section at #611 (24 hours) or to the Excavation Permit Section at 483-8085 during normal work day hours, Monday thru 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 precautions not to damage any existing cables or ducts. Any work involving existing GTE Hawaiian Tel cables or ducts 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 Tel's Excavation Permit Section, located at 3239 Ualena Street, third floor, two weeks prior to the start of construction. Hours of business are 7:00 am to 10:30 am and 11:30 am to 3:00 pm, Monday thru Friday, except holidays.
5. The Contractor shall notify GTE Hawaiian Tel's Inspector or designated Representative 72 hours prior to excavation, bracing or backfilling of GTE Hawaiian Tel's structures or facilities.
6. When excavation is adjacent to or beneath GTE Hawaiian Tel'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 Tel'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 Tel's structures or facilities.
7. Should it become necessary to temporarily relocate any GTE Hawaiian Tel facilities to enable the Contractor to perform his work in a safe and expeditious manner, the work shall be done by GTE Hawaiian Tel. The Contractor shall be responsible for all coordination and costs associated with the temporary relocation.
8. Should field conditions and construction procedures require that utility poles be braced, the Contractor shall contact the following person for pole bracing instructions a minimum of 72 hours in advance of actual required bracing: Calvin Choy -- GTE Hawaiian Tel Area Construction Supervisor, at 546-3381.

AT&T FIBER-OPTIC COMMUNICATION CABLE NOTES

1. This project involves work that is in close proximity of AT&T's fiber-optic communications cable. Please call (800) 642-6444, prior to the start of work, to arrange for exact cable location. There is no charge for this service. Seventy-two (72) hours advance notification is required.
2. Due to the limited separation of the construction, and to limit the Contractor's liability, it is recommended that a representative of AT&T be present during all phases of construction where the separation between the AT&T fiber and the project is less than seven (7) feet.
3. The AT&T Representative with Approval from State Engineer shall have the right to direct and control all construction within two (2) feet of the fiber easement. Failure to comply with AT&T's request or direction can result in a claim against construction company and their insurance company for any damages that may occur to the fiber or the jacket.
4. All crossings must provide one (1) foot clearance to the AT&T jacket.
5. The AT&T Representative with Approval from State Engineer shall have the right to stop all work within two (2) feet of their jacket if they believe there is a danger to the fiber or jacket. Work will resume only when all of the concerns of the AT&T Representative have been satisfied. The Construction Engineer and the Engineer for AT&T will be the final authority in case of disputes.
6. The Contractor shall keep the AT&T line exposure to a minimum to prevent possible damage.
7. The jacket must be adequately supported when more than four (4) linear feet are exposed. AT&T will have the right to review and reject any support plans prior to installation.
8. AT&T's primary responsibility is to protect the communications facility. AT&T will use any method they deem prudent and necessary to do so.
9. The jacket must have a minimum of thirty (30) inches of dirt cover after construction is complete. Less cover will be permitted if the covering is other than dirt (i.e. asphalt or concrete). The AT&T Representative will have the right to determine the appropriate cover and depth.

ORIGINAL PLAN	DATE
SURVEY PLANNED BY	
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No. 1000	

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THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Steven H. Saka

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
NOTES
FARRINGTON HIGHWAY Intersection Improvements at Waiomea Street Project No. 93A-06-98
Scale: None Date: AUGUST 2000
SHEET No. 7-5 OF 6 SHEETS

GENERAL NOTES

- 1. No blasting shall be permitted on this project.
- 2. All coordinates and azimuths are referred to "Kapuai New."
- 3. Elevations shown on these plans are based on mean sea level datum.

CONSTRUCTION NOTES

- 1. All applicable construction work shall be done in accordance with the Standard Specification for Public Works Construction, September 1986 and Standard Details for Public Works Construction, September 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
- 2. The underground pipes, cables or duct lines known to exist by the engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths 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 exiting lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 3. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing City drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the contractor shall immediately make all remedial actions necessary.
- 4. The Contractor shall be responsible for conformance with the applicable provisions of the water quality and water pollution control standards contained in Hawaii Administrative Rules, Chapter 11-54, "Water Quality Standards" and Chapter 11-55, "Water Pollution Control," as well as Chapter 14 of the Revised Ordinances of Honolulu, as amended. Best Management Practices shall be employed at all times during construction.
- 5. The Contractor shall notify the Civil Engineering Branch, D.P.P. at 523-4881 to arrange for inspectional services and submit three (3) sets of approved Construction Plans seven (7) days prior to commencement of construction work.
- 6. For Bench Mark, see Sheet C-12.

GRADING NOTES

- 1. All grading work shall be done in accordance with Chapter 14, Articles 13, 14, 15 and 16, as related to Grading, Soil Erosion and Sediment Control of the Revised Ordinances of Honolulu, 1990, as amended.
- 2. No Contractor shall perform any grading operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
- 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 contained in the Hawaii Administrative Rules, Chapter 11-60, "Air Pollution Control."

- 4. The underground pipes, cables or duct lines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
- 5. Adequate provisions shall be made to prevent surface waters from damaging the cut face of an excavation or the sloped surfaces of a fill. Furthermore, adequate provisions shall be made to prevent sediment-laden runoff from leaving the site.
- 6. All slopes and exposed areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area within which work has been interrupted or delayed shall be planted.
- 7. Fills on slopes steeper than 5:1 shall be keyed.
- 8. 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.
- 9. No grading work shall be done on Saturdays, Sundays and holidays at any time without prior notice to the Director, D.P.P., provided such grading work is also in conformance with the community noise control standards contained in the Hawaii Administrative Rules, Chapter 11-43, "Community Noise Control for Oahu."
- 10. The limits of the area to be graded shall be flanged before the commencement of the grading work.
- 11. All grading operations shall be performed in conformance with the applicable provision of the water quality and water pollution control standards contained in Hawaii Administrative Rules, Chapter 11-54, "Water Quality Standards" and Chapter 11-55, "Water Pollution Control" and if applicable, the NPDES permit for the project.
- 12. Where applicable and feasible the measures to control erosion and other pollutants shall be in place before any earth moving phase of the grading is initiated.
- 13. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
- 14. Temporary Erosion Control Procedures shall be submitted for approval prior to application for grading permit.
- 15. Temporary erosion Control Procedures shall be submitted for approval prior to application for grading period.
- 15. If the grading work involves contaminated soil, then all grading work shall be done in conformance with applicable State and Federal requirements.
- 16. Building Permit for retaining walls shall be obtained prior to commencement of grading work on site.
- 17. The Contractor shall notify the Civil Engineering Branch, D.P.P. at 523-4881 to arrange for inspectional services and submit three (3) sets of approved Construction Plans seven (7) days prior to commencement of construction work.

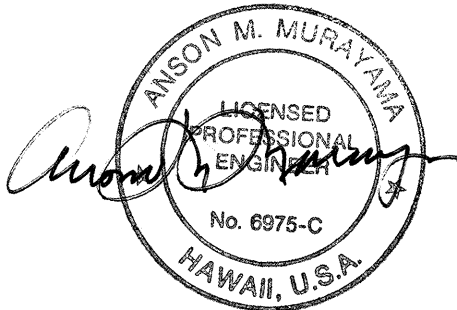
- 18. Non-compliance to any of the above requirements shall mean immediate suspension of all work, and remedial work shall commence immediately. All costs incurred shall be billed to the permittee. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.
- 19. For Bench Mark, see Sheet C-12.

GRUBBING NOTES

- 1. All grubbing work shall be done in accordance with Chapter 14, Articles 13, 14, 15 and 16, as related to Grubbing, Soil Erosion and Sedimentation Control, of the Revised Ordinances of Honolulu, 1990, as amended.
- 2. No Contractor shall perform any grubbing operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
- 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 contained in the Hawaii Administrative Rules, Chapter 11-60, "Air Pollution Control."
- 4. Adequate provision shall be made to prevent surface waters from damaging the cut face of an excavation or the sloped surfaces of a fill. Furthermore, adequate provisions shall be made to prevent sediment-laden runoff from leaving the site.
- 5. All grubbed areas shall be sodded or planted immediately after the grubbing work has been completed.
- 6. The City shall be informed of the location of the disposal site for the project when the application for a grubbing permit is made. The disposal site must also fulfill the requirements of the grading ordinance.
- 7. No grubbing work shall be done on Saturdays, Sundays and holidays at any time without prior notice to the Director, D.P.P., provided such grubbing work is also in conformance with the community noise control standards contained in the Hawaii Administrative Rules, Chapter 11-43, "Community Noise Control for Oahu."
- 8. The limits of the area to be grubbed shall be flagged before the commencement of the grubbing work.
- 9. All grubbing operations shall be performed in conformance with the applicable provisions for the water quality and water pollution control standards contained in Hawaii Administrative Rules, Chapter 11-54, "Water Quality Standards" and Chapter 11-55, "Water Pollution Control" and if applicable, the NPDES permit for the project.
- 10. Where applicable and feasible the measures to control erosion and other pollutants shall be in place before any grubbing work is initiated.
- 11. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
- 12. Temporary Erosion Control Procedures shall be submitted for approval prior to application for grubbing permit.
- 13. If the grubbing work involves contaminated soil, then all grubbing work shall be done in conformance with applicable State and Federal requirements.
- 14. Non-compliance to any of the above requirements shall mean immediate suspension of all work, and remedial work shall commence immediately. All costs incurred shall be billed to the permittee. Furthermore, violators shall be subjected to administrative, civil and/or criminal penalties.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-06-98	2001	7	68

SURVEY PLATTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NOTES

FARRINGTON HIGHWAY
Intersection Improvements at Waiomea Street
Project No. 93A-06-98

Scale: None Date: August 2000

SHEET No. C-1 OF 29 SHEETS