

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-98	2002	3	80

GENERAL NOTES

1. The scope for this project consists of median construction, paving, drainage system, signing, pavement markings, chain link fencing, curbs and gutters, landscaping of medians and driveway reconstruction.
2. Work may be performed only between the hours of 8:30 a.m. and 3:00 p.m., Monday through Friday, except holidays, unless otherwise permitted by the District Engineer.

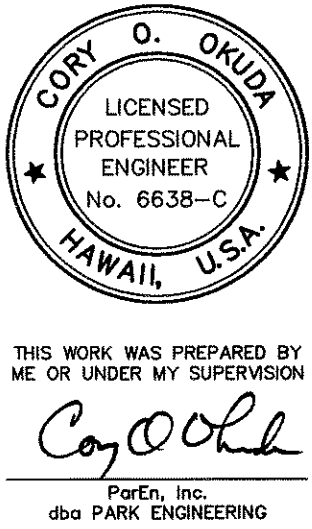
During work hours, only one lane of traffic shall be closed, unless otherwise approved in writing by the District Engineer.

3. The Contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities, and shall take all necessary precautions for the protection, convenience, and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways", adopted by the Director of Transportation, and the current U.S. Federal Highways Administration "Manual on Uniform Traffic Control Devices, Part VI - Standards and Guides for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations".
4. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way, except at locations designated in writing and approved by the District Engineer.
5. Prior to commencing trench excavation work, the Contractor shall take a profile along the centerline of the proposed utility trench. This information shall be used in the verification of restoring the roadway to its original condition. A copy of the profile shall be submitted to the District Engineer.
6. The Contractor shall provide an adequate and safe non-skid bridging material, including shoring, over trenches in pavement areas. The bridging shall be able to support all types of vehicular traffic.
7. Unless otherwise noted, no trench shall be opened more than 300 feet in advance of installed and tested pipeline and/or ductline.
8. Existing drainage systems shall be functional at all times.
9. The Contractor shall exercise care to minimize damages to existing highway improvements. All damages shall be repaired by the Contractor, at his expense, to the satisfaction of the District Engineer.
10. All regulatory, guide, and construction signs and barricades shall have a high-intensity reflective background. Portable concrete barriers shall have steady burn lamps at 20' o.c. and shall be considered incidental to the concrete barriers and will not be paid for separately.
11. Driveways shall be kept open unless the owners of the properties using these rights-of-way are otherwise provided for satisfactorily.
12. Where ADA compliant pedestrian walkways exist they shall be maintained in a safe and passable condition, or other ADA compliant facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided.

13. The Contractor shall exercise care when performing work in or adjacent to the State highway right-of-way. Damages to the existing facilities shall be immediately reported to the respective utility companies, and/or City or State agencies. The repair work shall be done at the Contractor's expense. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
14. Traffic signals shall be kept operational during construction, and if deemed necessary by the Engineer, a temporary vehicle detection device shall be installed. All work shall be done in accordance to the requirements of the Department of Transportation Services, City and County of Honolulu, and paid for by the Contractor.
15. The Contractor shall notify Oahu Transit Services, Inc. (OTS), Road Supervision Office, 811 Middle Street, Honolulu, Hi., 96819, Phone No. 848-4571 seven (7) days prior to any paving operations. The Contractor shall inform OTS of the location and scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
16. Temporary cold mix trench patches will be permitted in any given area for a maximum duration of two weeks, and shall be a minimum of 2 inches thick. All temporary patches shall be placed over properly placed and compacted backfill and base course layers. Contractor shall be responsible for maintaining all temporary patches and to make repairs to unsatisfactory patches within 24 hours.
17. The Contractor will make every effort to minimize the use and the duration of use of steel plates. All steel plates shall have a non-skid surface. The State may require the backfilling and patches of trenches due to the excessive usage of steel plates at no additional cost to the State.
18. The Contractor shall remove and dispose of all existing raised pavement markers prior to overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
19. Prior to the placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
20. The Contractor shall field verify for any conflicts with the Navy gasoline line. Where conflicts occur, the contractor shall coordinate with the Engineer the relocation of the Navy gasoline line. The Contractor shall exercise all appropriate safety precautions when performing work in the vicinity of the abandoned 8" and 10" Navy gasoline line. The Contractor shall assume that the line contains leaded aviation gasoline. All excavated material shall be tested for contaminants and disposed of accordingly. The Contractor shall perform work on or around the pipeline only under the guidance of an NFPA Certified Gas-Free Engineer or Marine Chemist. The employment of the Gas-Free Engineer or Marine Chemist shall be considered incidental to the various contract items.
21. The Contractor shall provide for access to and from all existing side streets and driveways at all times.

22. The Contractor shall notify the Traffic Control Branch, Department of Transportation Services, three (3) working days prior to the commencement of work on the Traffic Signal System (phone: 523-4589).
23. The Traffic Signal System shall be kept operational during construction and any relocation required shall be approved by the Traffic Control Branch, Department of Transportation Services, and paid for by the Contractor.
24. The Contractor shall be responsible for any damages to the 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.
25. The Contractor shall be responsible for any damages to the 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.
26. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. Damages to the existing facilities shall be immediately reported to the respective utility companies, City or State agency. The repair work shall be done at the Contractor's expense.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONSTRUCTION NOTES - 1	
FARRINGTON HIGHWAY LANDSCAPING	
Kamehameha Highway to Fort Weaver Road	
Project No. 7101A-01-98	
Scale: As Noted	Date: April 2002
SHEET No. 1 OF 5 SHEETS	

WATER NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-98	2002	4R	80

- DATE

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DATE
1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "Water System Standards" Volume 1, dated 1985, the "Approved Material List and Standard Details for Water System Construction", Volume 2, dated 1985, the "Water System External Corrosion Control Standards", Volume 3, dated 1991, and all subsequent amendments and additions.

2. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind waterlines, tees, and bends, wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measures necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction method.

3. Re-approval shall be required if this project is not under construction within a period of two (2) years.

4. The Contractor shall notify BWS Maintenance Unit-Engineering, Construction Section in writing and submit five (5) sets of approved construction plans one week prior to commencing work on the water system. Phone No. 527-5205/527-5206.

5. The existence and location of underground utilities and 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 the damages of existing utilities.

6. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings, drainage, etc., and other features of improvements shall not be the responsibility of the Board of Water Supply.

7. Any adjustments to the existing water system required during construction to meet requirements of the Board of Water Supply's Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board. Maintain 3'-0" minimum cover for all existing water lines (18" min. for services laterals) from new finish grades.

8. Maintain 3'-0" min. horizontal clear separation between all waterline systems and nearest electrical/signal ductlines paralleling the water system at no cost to the Board of Water Supply.

9. Maintain 3'-0" min. horizontal clear separation between street light/traffic signal standards (including any modular units) and the nearest water system. Contractor shall field verify for any conflicts at each street light/traffic signal standard location. Where conflicts occur, the contractor shall coordinate with the Project Engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the BWS.

10. At the electrical/signal ductline water crossings, adjust all electrical/signal ductline elevations to maintain 6" vertical clear separation from all water lines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to the Board of Water Supply.

11. The project shall pay the applicable water system facilities and/or one-time service charge and for the meter which will be furnished by BWS and installed by the Contractor when the lateral is installed.

12. Contractor shall cut and plug all existing unused laterals at the main whether or not shown on the plans. Meter and valve boxes to be or already abandoned shall be demolished or removed and properly disposed of. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the Contractor.

13. Board of Water Supply approval of these plans does not constitute a water commitment. Availability of water will be determined when building permit is presented to the Department. Water commitment will depend upon the status of the water system at that time. Should water service be made available, the water commitment will be effective when the project receives an approved building permit from the Building Department. All water commitments will be canceled in the event the building permit is canceled.

14. The project shall be subject to the Board of Water Supply's Cross-Connection Control requirements prior to issuance of the Building Permit.

15. The installation, chlorination and testing of the water main and facilities after the meter shall not be the responsibility of the Board of Water Supply.

16. The backflow preventer device must be installed before meter is issued.

Approved:

Joseph W. Keolani 10/23/02
Principal Executive, Maintenance Unit, BWS DD Date



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
C. Okuda
Cory O. Okuda
Professional Engineer
License Expires 4/30/04

9/30/02	ADDED NEW SHEET TO ADDRESS BWS COMMENTS
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONSTRUCTION NOTES - 2	
FARRINGTON HIGHWAY LANDSCAPING Kamehameha Highway to Fort Weaver Road Project No. 7101A-01-98	
Scale: As Noted	Date: April 2002
SHEET No. 2 OF 5 SHEETS	

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 verify in the field the locations of the facilities and shall exercise proper care in excavating and working in the area. The contractor shall be responsible for any damages to HECO's facilities whether shown or not shown on the plans.

2. Compliance with DOSH

The contractor shall comply with the State of Hawaii's Occupational Safety and Health laws (DOSH) and regulations, including without limitation, those related to working on or near exposed or energized electrical lines and equipment.

3. Excavation Permit

The contractor shall obtain an excavation permit from HECO's Technical Division (543-5654) located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction. Please refer to our request number at that time.

4. Overhead Lines

State law requires that a worker and the longest object he or she may contact cannot come closer than a minimum radial clearance of 10 feet when working close to or under any overhead lines rated 50 kV and below. For each additional 1 kV above 50 kV, an additional 0.4 inch shall be added to the 10-foot clearance requirement. The preceding information on line clearance requirements is provided as a convenience and it is the contractor's responsibility to be informed of and comply with any revisions or amendments to the law.

Should the Contractor anticipate that his work will result in the need to encroach within the minimum required clearance at any time, the contractor shall notify HECO at least four (4) weeks prior to the planned encroachment so that, if feasible, the necessary protections (e.g. relocate, de-energize, or blanket HECO lines) can be put in place. HECO's cost of safeguarding its lines will be charged to the contractor.

Contact HECO's Customer Installations Department at 543-7846 for assistance in identifying and safeguarding overhead power lines.

Refer to Section X of HECO's Electric Service Installation Manual for additional guidelines when working around HECO's facilities. A copy may be obtained from HECO's Customer Installations Department.

5. Pole Bracing

A minimum clearance of 10 feet must be maintained when excavating around utility poles and/or their anchor system to prevent weakening or pole support failure. Should work require excavating within 10 feet of a pole and/or its anchor system, the contractor shall protect, support, secure, and take all other precautions to prevent damage to or leaning of these poles. The contractor is responsible for all associated costs to brace, repair, or straighten poles. All means of structural support for the pole proposed by the Contractor shall first be reviewed by HECO before implementation. For pole bracing instructions, the Contractor shall call the HECO Construction and Maintenance Department, Customer and System Superintendent at 543-4223 a minimum of two (2) weeks in advance.

6. Underground Lines

The contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines. HECO's existing electrical cables in the area are energized and will remain energized during construction. Only HECO personnel are to handle these cables and erect temporary guards to protect these cables from damage. The cost of HECO's assistance in providing proper support and protection of its underground lines will be charged to the contractor. The contractor shall exercise due care and precautions to avoid disturbing any energized cables and temporary guards and shall work cautiously at all times to avoid accidents.

For verification of underground lines or for assistance in providing proper support and protection of these lines, the contractor shall call HECO's Construction and Maintenance Department, Customer and System Superintendent at 543-4223 a minimum of two (2) weeks in advance.

7. Excavation

When trench excavation is adjacent to or beneath HECO's existing structures or facilities, the contractor is responsible for:

A) Sheeting and bracing the excavation to prevent slides, cave-ins, and settlements.

B) Protecting existing structures or facilities with beams, struts, or underpinings.

C) Backfilling with proper backfill material including special thermal backfill where existing (refer to Engineering Department for thermal backfill specifications)

8. Relocation of HECO Facilities

Any work required to relocate or modify HECO facilities shall be done by HECO, or by the contractor under HECO's supervision. The contractor shall be responsible for all coordination, and shall provide necessary support for HECO's work, which may include, but not be limited to, excavation and backfill, permits and traffic control, and restoration of pavement, sidewalks, and other facilities.

All costs associated with any relocation or modification (either temporary or permanent) for the convenience of the contractor, or to enable the contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations shall be borne by the contractor.

9. Conflicts

The contractor acknowledges that HECO is not responsible for any delay or damage that may arise as a result of any conflicts discovered or identified with respect to the location or construction of HECO's electrical facilities in the field, regardless of whether the contractor has met the requested minimum advance notices. In order to minimize any delay or impact arising from such conflicts, the contractor shall notify HECO immediately upon discovery or identification of such conflict.

10. Damage to HECO Facilities

The contractor shall be responsible for the protection of all HECO surface and subsurface utilities and shall be responsible for any damages to HECO's facilities as a result of his operations. The contractor shall immediately report such damages to HECO's trouble dispatcher at 548-7961. Repair work shall be done by HECO or by the contractor under HECO's supervision. Costs for damages to HECO's facilities shall be borne by the contractor.

11. HECO Stand-By Personnel

The contractor may request HECO to provide an inspector to stand-by during construction near HECO's facilities. The cost of such inspection will be charged to the contractor.

The contractor shall call the HECO Construction and Maintenance Department, Customer and System Superintendent at 543-4223 a minimum of 5 working days in advance to arrange for HECO stand-by personnel.

12 Temporary Relocation of HECO Facilities

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.

13. Unforeseen Conflicts

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.

14. Liability for Damages to HECO Facilities

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.

15. Indemnity

The contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims and actions, including but limited to reasonable attorney's fees and costs 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 based upon the sole negligence of HECO.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Cory O. Okuda
P.O.E.N., Inc.
dba PARK ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONSTRUCTION NOTES - 3	
FARRINGTON HIGHWAY LANDSCAPING	
Kamehameha Highway to Fort Weaver Road	
Project No. 7101A-01-98	
Scale: As Noted	Date: April 2002
SHEET No. 3 OF 5 SHEETS	

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-98	2002	6	80

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

- The Contractor is reminded of the requirements of Section 209 – Water Pollution and Erosion Control, in the "Hawaii Standard Specifications for Road, Bridge and Public Works Construction". Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment.
- The Contractor shall follow the guidelines in the "Best Management Practices Manual for Construction Sites in Honolulu", dated May 1999 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
- The Engineer may assess liquidated damages of up to \$25,000 for non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.

B. WASTE DISPOSAL:

- Waste Materials**
All waste materials shall be collected and stored in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. All trash and construction debris from the site shall be deposited in the dumpster. The dumpster shall be emptied a minimum of twice per week or as often as is deemed necessary. No construction waste materials shall be buried onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Notices stating these practices shall be posted in the office trailer and the Contractor shall be responsible for seeing that these procedures are followed.
- Hazardous Waste**
All hazardous waste materials shall be disposed of in the manner specified by local or State regulation or by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.
- Sanitary Waste**
All sanitary waste shall be collected from the portable units a minimum of once per week, or as required.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- All control measures shall be inspected at least once each week and following any rainfall event of 0.5 inches or greater.
- All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
- Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- Silt screen or fence shall be inspected for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground.
- Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- A maintenance inspection report shall be made promptly after each inspection by the Contractor.

- The Contractor shall select a minimum of three personnel who shall be responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
- Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. Materials Pollution Prevention Plan

- Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

Concrete	Fertilizers
Detergents	Petroleum Based Products
Paints (enamel and latex)	Cleaning Solvents
Metal Studs	Wood
Tar	Masonry Block

- Material Management Practices shall be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. An effort shall be made to store only enough product as is required to do the job.
- All materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.
- Products shall be kept in their original containers with the original manufacturer's label.
- Substances shall not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, a product shall be used up completely before disposing of the container.
- Manufacturer's recommendations for proper use and dispose shall be followed.
- The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.

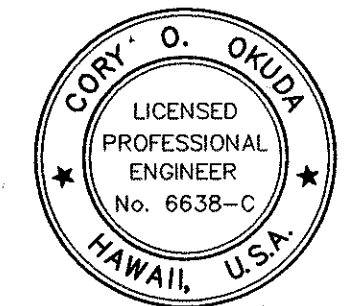
2. Hazardous Material Pollution Prevention Plan

- Products shall be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets (MSDS) shall be retained.
- Surplus products shall be disposed of according to manufacturers' instructions or local and State recommended methods.

3. Onsite and Offsite Product Specific Plan

- The following product specific practices shall be followed onsite:
 - Petroleum Based Products:**
All onsite vehicles shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products shall be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite shall be applied according to the manufacturer's recommendation.

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ORIGINAL PLAN	
NOTE BOOK	
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Cory O. Okuda
dbs PARK ENGINEERING

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONSTRUCTION NOTES – 4	
FARRINGTON HIGHWAY LANDSCAPING Kamehameha Highway to Fort Weaver Road Project No. 7101A-01-98	
Scale: As Noted	Date: April 2002
SHEET No. 4 OF 5 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-98	2002	7	80

WATER POLLUTION AND EROSION CONTROL NOTES: (Cont.)

- 2) **Fertilizers:**
Fertilizers used shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil to limit exposure to storm water. Storage shall be in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.
- 3) **Paints:**
All containers shall be tightly sealed and stored when not required for use. Excess paint shall not be discharged to the highway drainage system but shall be properly disposed of according to manufacturers' instructions or State and local regulations.
- 4) **Concrete Trucks:**
Concrete trucks shall be allowed to wash out or drum wash water only at designated site. Water shall not be discharged in the highway drainage system or waters of the United States. The Contractor shall contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. The Contractor shall clean disposal site as required or as requested by the Owner's representative.

b. Offsite Vehicle Tracking:

A stabilized construction entrance shall be provided to help reduce vehicle tracking of sediments. The paved street adjacent to the site entrance shall be cleaned daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Dump trucks hauling material from the construction site shall be covered with a tarpaulin.

4. Spill Control Plan

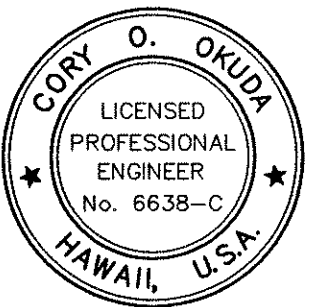
- a. A spill prevention plan shall be posted and adjusted to include a description and cause of each spill, measures to prevent and clean up each spill.
- b. The Contractor shall be the spill prevention and cleanup coordinator. The Contractor shall designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel shall be posted in the material storage area and in the office trailer onsite.
- c. Manufacturers' recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and cleanup supplies.
- d. Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite.
- e. All spills shall be cleaned up immediately after discovery.
- f. The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

E. PERMIT REQUIREMENTS:

1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of five acres or more, the Contractor shall submit to the Engineer four sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.04 of the specifications.
2. If a NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to obtain the Permit from the Department of Health, Clean Water Branch.
3. The Contractor shall comply with all applicable State and Federal Permit conditions. Permit may include but are not limited to the following:
- a. NPDES Permit for Construction Activities
- b. NPDES Permit for Construction Dewatering

GAS NOTES

1. Gas company gas pipelines in the project area are plastic coated and cathodically protected. The contractor shall be extremely careful when working near these gas pipelines.
2. Written clearances must be obtained from The Gas Company, Maps and Records Department, 515 Kamakee St., at least five work days prior to starting excavation near these gas pipelines.
3. Since gas line locations on field maps are approximate, the contractor, after obtaining written clearances, shall call USA North a minimum of two (2) working days before starting excavation to arrange for field location of the existing gas pipelines. The telephone number is 1-800-227-2600.
4. The contractor shall excavate and backfill around gas pipelines in the presence of a representative of The Gas Company. All backfill within six inches of any gas pipeline shall be select cushion material approved by The Gas Company.
5. For relocation of any gas pipeline, the contractor shall notify The Gas Company five working days before starting work. The telephone number is 594-5574. The contractor shall provide the necessary excavation and backfill, obtain traffic permits, and restore pavement, sidewalks, and other facilities. Any relocation of gas facilities shall be done by The Gas Company and paid for by the contractor.
6. The contractor shall notify The Gas Company immediately after any damage has been caused to existing gas pipelines, coatings, or its cathodic protection devices. The telephone number is 535-5933, 24 hours a day. The contractor shall be liable for any damage to The Gas Company facilities. Repair work on such damage shall be done by The Gas Company and paid for by the contractor.
7. Minimum vertical and horizontal clearance between the gas pipelines and other pipelines, conduits, ductlines, or other facilities shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the contractor and approved by The Gas Company.
8. The contractor shall work in an expeditious manner in order to keep the uncovered gas pipelines exposed for as short a period of time as possible.



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ME OR UNDER MY SUPERVISION

Cory O. Okuda
Cory O. Okuda
Cory O. Okuda Engineering

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION NOTES - 5

FARRINGTON HIGHWAY LANDSCAPING
Kamehameha Highway to Fort Weaver Road
Project No. 7101A-01-98

Scale: As Noted Date: April 2002
SHEET No. 5 OF 5 SHEETS

AS-BUILT

DATE	_____
SURVEY PLOTTED BY	_____
PLAN	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

NOTES FOR CONSTRUCTION WITHIN CITY RIGHT-OF-WAY

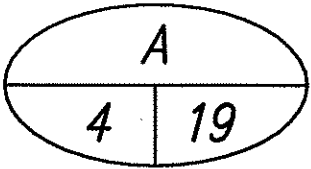
1. A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction Traffic Control Plans approved by the Department of Transportation Services and/or the Department of Planning and Permitting must be provided when applying for the permit.
2. The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administrative Rules Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Controls for Street and Highway Construction and Maintenance Operations".
3. Work on any City Street area may be performed only between the hours of 8:30 a.m. and 3:30 p.m., Monday to Friday, unless otherwise permitted by the Department of Transportation Services.
4. During working hours, the Contractor shall provide for through traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
5. As required by the Department of Transportation Services, the Contractor shall provide off-duty police officers to control the flow of traffic.
6. Where ADA compliant pedestrian walkways exist, they shall be maintained in passable condition or other ADA compliant facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
7. Driveways shall be kept open unless the owners of the property using these Rights-of-Way are otherwise provided for satisfactorily.
8. Contractor shall reference, to the approval of the Department of the Transportation Services and the Department of Planning and Permitting, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts and pavement markings disturbed by his activities.
9. The Contractor shall notify the Department of Planning and Permitting at 527-5087 one (1) week prior to any work to be done on signs, posts and pavement markings.
10. No material and/or equipment shall be stockpiled or otherwise stored within street Rights-of-Way except at locations designated in writing and approved by the Department of Transportation Services.

LEGEND

- e — Existing Electrical Line
○ pp Existing Power Pole
○ emh Existing Electric Manhole
□ epb Existing Electric Pullbox
■ EPB Adjusted Electric Pullbox
□ eh Existing Electric Hand Hole
■ EHH Adjusted Electric Hand Hole
— t — Existing Telephone Line
○ tp Existing Telephone Pole
○ tmh Existing Telephone Manhole
● TMH Adjusted Tele. MH Frame/Cover
□ th Existing Telephone Hand Hole
□ tpb Existing Telephone Pullbox
■ TPB Adjusted Telephone Pullbox
— ht-tp — Existing Hawaiian Telephone Co. Transpac Land Cable
— at&t — Existing AT&T Line
○ at&t Existing AT&T Manhole
● AT&T Adjusted AT&T MH Frame & Cover
— t&tv — Existing Telephone and Cable TV Line
— w-8 — Existing 8" Water Line
— w-12 — Existing 12" Water Line
○ wmh Existing Water Manhole
● WMH Adjusted Water MH Frame & Cover
○ ww Existing Water Valve Box
● WV Adjusted Water Valve Box
— g-8 — Existing 8" Gas Line
○ gv Existing Gas Valve Box
— ng-8 — Existing Navy Aviation Gas Line
⊙ Existing Monument
--- d --- Existing Drain Line
--- ud --- Existing Underdrain Line
○ sdmh Existing Storm Drain Manhole
● SDMH Adjusted Storm Drain MH Frame & Cover
□ di Existing Drop Intake
□ cb Existing Catch Basin
□ CB Adjusted/Reconstructed Catch Basin
--- ts --- Existing Traffic Signal Line
○ tsp Existing Traffic Signal Pole
● TSP Relocated Traffic Signal Pole
□ tspb Existing Traffic Signal Pullbox
■ TSPB Adjusted Traffic Signal Pullbox
■ TSC Adjusted Traffic Signal Cabinet
○ Existing Loop detectors
p Existing Traffic Sign
p Relocated Traffic Sign
○ Existing Highway Lighting Standard
● Relocated Highway Lighting Standard
□ lspb Existing Highway Lighting Standard Pullbox
■ LSPB Adjusted Highway Lighting Standard Pullbox
○ fh Existing Fire Hydrant

SYMBOL

Sheet on Which
Detail is Identified



Detail or Section
Designation

Sheet No. on Which
Detail is Drawn

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Cory O. Okuda
dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONSTRUCTION NOTES
AND LEGEND**

FARRINGTON HIGHWAY LANDSCAPING
Kamehameha Highway to Fort Weaver Road
Project No. 7101A-01-98

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SHEET No. 1 OF 1 SHEETS