FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D/G-02-08	2008	66	89

GENERAL NOTES:

1. The scope of work for this project includes the installation of chain link fencing, fabric panels on chain link fencing, signs and posts along the existing highway.
2. The Contractor shall reference the "Hawaii Standard Specifications for Road and Bridge Construction, 2005" as amended.
3. The Contractor's attention is directed to the following Sections of the Standard Specifications: Subsection 104.11 - Utilities and Services; Subsection 107.12 - Protection of Persons and Property; and Section 645 - Work Zone Traffic Control.
4. At the end of each day's work, the Contractor shall remove all equipment and other obstruction to permit free and safe passage of public traffic.
5. 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.
6. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.
7. The Contractor shall provide for vehicle and pedestrian access to and from all existing driveways and side streets at all times.
8. Existing drainage system shall be kept 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 various contract items.
9. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition or better at no cost to the State.
10. All grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 619 - Planting. Contractor shall restore to its original condition at no cost to the State.
11. When excavating in close proximity to walls, fences, and other improvements, the Contractor shall protect, support, secure, and take all precautions to prevent damaging these facilities and improvements.
12. The Contractor shall verify the locations and elevations of all existing utility lines and notify respective owners before commencing any excavation work.
13. No material or equipment shall be stockpiled or otherwise stored within highway right-of-way except at locations designated in writing and approved by the Engineer.
14. Contractor shall dispose or deliver any removed material at no cost to the State.
15. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
16. After the project is completed, the Contractor shall restore grades and groundcover within the project limits to a condition equal or better than existing condition prior to construction.
17. All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. The Contractor shall be held liable for any damages incurred to the existing utilities as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at no cost to the State.
18. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

1. The Contractor is reminded of the requirements of Section 209 - Temporary Water Pollution, Dust, and Erosion Control, in the Standard Specification. 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.
2. 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.
3. The Contractor shall follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
4. The Engineer may assess liquidated damages of up to $27,500 per day for non-compliance of each NPDES permit condition. There is no maximum limit on the amount assessed per day.
5. 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 for the outstanding cost incurred by the State.
6. For projects that require an NPDES Permit from the Department of Health, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall, and have an opening of at least one-inch in diameter. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.
7. The Contractor shall obtain permits and/or licenses for the location of the equipment staging/storage area and provide a copy to the Engineer.

B. WASTE DISPOSAL:

1. 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.

2. Hazardous Waste

   All hazardous waste materials shall be disposed of in the manner specified by local or State regulations 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.

3. Petroleum-Contaminated Soil

   If petroleum-contaminated soil is encountered during construction it shall be stockpiled seperately from other materials. Soil contaminated with oil, diesel, or gasoline from sources such as underground storage tanks and underground pipelines is not hazardous waste and shall be managed by the Contractor in compliance with all local and State requirements regarding the handling (stockpiling, transportation, and disposal) of petroleum-contaminated soil. The stockpiled soil shall be characterized by the Contractor for acceptance at an on-island petroleum-contaminated soil remediation/disposal facility.

4. 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:

1. All control measures shall be inspected at least once each week and within 24 hours of any rainfall event of 0.5 inches or greater within a 24 hour period.
2. All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
3. Existing catch basins shall be protected by a high-visibility geotextile sleeve filter.
4. Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.

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

J:/Kam Hwy Sams Club/Microstation/Plans/notes1.dgn

DEXTER S. EU
LICENSED PROFESSIONAL ENGINEER
No. 4739-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4/30/2010 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES - 1

KAMEHAMEHA HIGHWAY MEDIAN FENCING IMPROVEMENTS
VICINITY OF ACACIA ROAD TO SALT LAKE BOULEVARD
PROJECT NO. 99D/G-02-08

Scale: None Date: April 2008

SHEET No. N-1 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D/G-02-08	2008	67	89

WATER POLLUTION AND EROSION CONTROL NOTES: -Cont.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES: -Cont.

5. A maintenance inspection report shall be made promptly after each inspection by the Contractor and a copy shall be submitted to the Engineer no later than one week from the date of the inspection.

6. Provide a stabilized construction entrance to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 6 inches and underlain with geo-textile fabric. 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.

7. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.

8. The Contractor shall submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.

9. 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.

10. The Contractor shall contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Payment for confinement, removal, and disposal of slurry shall be considered incidental to the various contract items.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. Materials Pollution Prevention Plan

a. 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	Chain Link Fence Fabric
Detergents	Fence Posts
Paints (enamel and latex)	Fabric Panels
Metal Studs	Cleaning Solvents
Tar	Wood
Fertilizers	Masonry Block
Petroleum Based Products	

b. 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.

c. 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.

d. Products shall be kept in their original containers with the original manufacturer's label.

e. Substances shall not be mixed with one another unless recommended by the manufacturer.

f. Whenever possible, a product shall be used up completely before disposing of the container.

g. Manufacturer's recommendations for proper use and disposal shall be followed.

h. The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

a. Products shall be kept in original containers unless they are not resealable.

b. Original labels and material safety data sheets (MSDS) shall be retained.

c. 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:

a. 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.

b. 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.

c. 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.

d. Concrete Trucks:
Concrete trucks shall be allowed to wash out or discharge drum wash water only at a designated site. Water shall not be discharged in the highway drainage system or waters of the United States. The Contractor shall contact Safe 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 Engineer.

4. Spill Control Plan

a. A spill prevention plan shall be posted to include 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. A National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more. The Contractor shall submit to the Engineer six sets of the Water Pollution, Dust, and Erosion Control Submittals as detailed in Subsection 209.03 of the Standard Specifications.

2. The Contractor shall comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:

a. NPDES Permit for Construction Activities

ORIGINAL PLANS SURVEY PLOTTED BY ..... DATE
PLANS BY TRACED BY
NOTE BOOK DESIGNED BY
No. QUANTITIES BY
CHECKED BY

J:/Kam Hwy Sams Club/Microstation/Plans/notesladgn

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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4/30/2010 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES - 2

KAMEHAMEHA HIGHWAY MEDIAN FENCING IMPROVEMENTS
VICINITY OF ACACIA ROAD TO SALT LAKE BOULEVARD
PROJECT NO. 99D/G-02-08

Scale: None Date: April 2008

SHEET No. N-2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D/G-02-08	2008	68	89

BEST MANAGEMENT PRACTICE NOTES:

The following special conditions apply to all land disturbance work conducted under this general permit:

a) Construction Management Techniques

(1) Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation.

(2) Construction shall be sequenced to minimize the exposure time of the cleared surface area.

(3) Construction shall be staged or phased for large projects. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily or permanently protecting the disturbed soil surface from rainfall impacts and runoff.

(4) Erosion and sediment control measures shall be in place and functional before earth moving operations begin. These measures shall be properly constructed and maintained throughout the construction period.

(5) All control measures shall be checked and repaired as necessary, for example, weekly in dry periods and within twenty-four hours after any rainfall of 0.5 inches or greater within a 24-hour period. During prolonged rainfall, daily checking is necessary. The permittee shall maintain records of checks and repairs.

(6) The permittee shall maintain records of the duration and estimated volume of storm water discharge(s).

(7) The Contractor shall designate a specific individual to be responsible for erosion and sediment controls on each project site.

b) Vegetation Controls

(1) Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than twenty calendar days prior to land disturbance.

(2) Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than thirty calendar days.

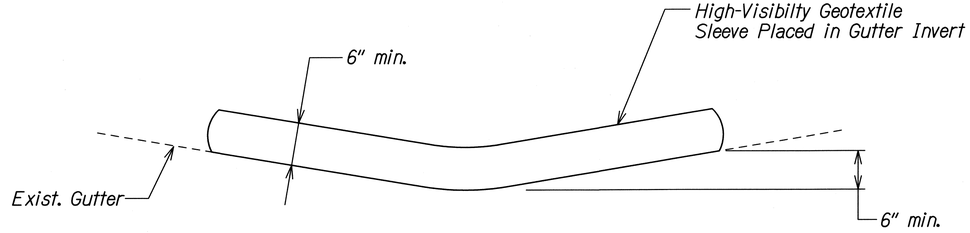
(3) Permanent soil stabilization with perennial vegetation or pavement shall be applied as soon as practical after final grading. Irrigation and maintenance of the perennial vegetation shall be provided for thirty calendar days or until the vegetation takes root, whichever is shorter.

c) Structural Controls

(1) Storm water flowing toward the construction area shall be diverted by using applied as soon as practical after final grading. Irrigation and maintenance

(2) Erosion control measures shall be designed according to the size of disturbed or drainage areas to detain runoff and trap sediment.

(3) Water must be discharged in a manner that the discharge shall not cause or contribute to a violation of the basic water quality criteria as specified in Section 11-54-04 of The State Administrative Rules, Department of Health, Water Pollution Control and Water Quality Standards.

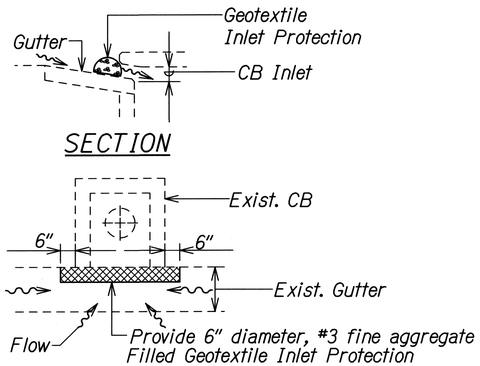


NOTES:

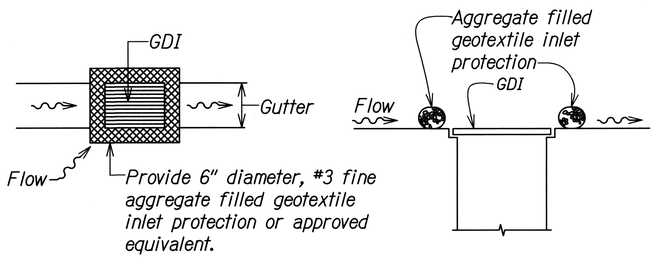
1. The sleeve shall be made of high-visibility, high-strength, non-woven geotextile material.
2. The sleeve filling shall be per manufacturer's recommendations.
3. The weight of the filled sleeve shall be sufficient to anchor the product without the use of pins, staples, or stakes. The geotextile sleeve shall contact the ground along the entire length of the sleeve.
4. The geotextile sleeve shall be inspected regularly to ensure that the shape is maintained and that there is adequate flow through capacity.

GEOTEXTILE SLEEVE
Not to Scale

1 N-3 W-3 → C-1 to C-12



INLET PROTECTION
AT EXISTING CATCH BASIN
Not to Scale



INLET PROTECTION
Not to Scale

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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GENERAL NOTES - 3

KAMEHAMEHA HIGHWAY MEDIAN FENCING IMPROVEMENTS
VICINITY OF ACACIA ROAD TO SALT LAKE BOULEVARD
PROJECT NO. 99D/G-02-08

Scale: None Date: April 2008

SHEET No. N-3 OF 7 SHEETS