GENERAL NOTES

- 1. The project consists of intersection improvements for the East and West Hui Iwa Street Intersections by adding acceleration and deceleration lanes at the intersection approaches. Guardrails, drain inlets, traffic signal standards, pavement striping and marking, signs will be adjusted or replaced to accommodate the new work; and road luminaires will be added along the Kahekili Highway eastbound lanes.
- 2. The Contractor shall reference the "Hawaii Standard Specifications for Road, Bridge, and Public Works Construction, 2005."
- 3. The Contractor is reminded of the requirements of Subsection 106.16 Subletting of Contract, which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Non—compliance with this Subsection may be grounds for rejection of bid.
- 4. The Contractor's attention is directed to the following Sections of the Specifications: Subsection 104.09 Maintenance of Traffic; Subsection 104.11 Utilities and Services; Subsection 105.09 Coordination Between Contractors; Subsection 107.06 Contractor Duty Regarding Public Convenience; and Section 645 Work Zone Traffic Control.
- 5. 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.
- 6. 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.
- 7. The Contractor shall notify in writing, the Oahu Transit Services, Inc. Roads Supervision Office, 811 Middle St., Hon., HI 96819 (Phone: 848-4571) seven (7) days prior to any paving operations.
- 8. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.
- 9. The existing drainage system shall be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
- 10. All saw cutting work including vacuum of slurry shall be considered incidental to Asphalt Concrete Pavement, Mix. No. IV.

GENERAL NOTES (CONT.)

- 11. All azimuths and coordinates are referred to "HEEIA". For Bench Mark see 'Layout Plan'.
- 12. At the location where the new pavements tie into the existing pavement, the Contractor shall check the existing and design grades to ensure a smooth riding connection. The Contractor shall saw cut including vacuum of slurry the existing pavement in the transverse direction to provide a neat connection. This work will be incidental to various bid items.
- 13. Work required to complete the project but not itemized specifically in the proposal shall be considered incidental to the various contract items and shall not be paid for separately. This includes restoration of areas adjacent to work areas to a condition of same or better.
- 14. Steel plate used on roadways exposed to traffic shall be 1" thick minimum with non-skid surfaces.
- 15. Contractor shall pre—arrange for an Environmental Consultant to sample and submit reports as required.
- 16. Construction Area: 1.8 Acres
- 17. The Contractor shall maintain all street lights within the project limits at no cost to the State. All street lights shall be operating within 24 hours of discovery of a malfunction.

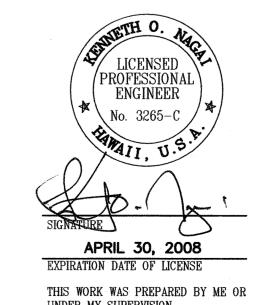
TRAFFIC SIGNALS AND TECHNOLOGY DIVISION NOTES

- 1. The Contractor shall notify the Traffic Signals and Technology Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system (Phone: 523-4589).
- 2. The traffic signal system shall be kept operational during construction. Any relocation required shall be approved by the Traffic Signals and Technology Division, Department of Transportation Services, and paid for by the Contractor.
- 3. The Contractor shall be responsible for any damages to the existing traffic signal facilities, including but not limited to the traffic signal fiber optic cable system, and 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 Traffic Signals and Technology Division.

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ABBREVIATIONS

A.C.	ASPHALT CONCRETE	L.P.	LAMP POLE
APPROX.	APPROXIMATE	LT.	LEFT
BC	BOTTOM CURB	MH	MANHOLE
ВОТ.	BOTTOM	0/S	OFFSET
BW	BOTTOM WALL	0. C.	ON CENTER
BWS	BOARD OF WATER SUPPLY	0/H	OVERHEAD
CATV	CABLE TELEVISION	0/S	OFFSET
C.B.	CATCH BASIN	PAV'T.	PAVEMENT
C.L.	CHAIN LINK	PERF.	PERFORATED
CLR.	CLEAR	P.M.	PARKING METER
CMP	CORRUGATED METAL PIPE	REF.	REFLECTOR
CMU	CONCRETE MASONRY UNIT	RHC	RIGHT HORIZONTAL CONTRO
C. O.	CLEAN OUT	RT.	RIGHT
COMM.	COMMUNICATION	ROW	RIGHT OF WAY
CONC.	CONCRETE	S	SEWER OR SPREAD
CRM	CONCRETE RUBBLE MASONRY	SHT.	SHEET
D	DIAMETER OR DRAIN	STD.	STANDARDS
DET.	DETAIL	SDMH	STORM DRAIN MANHOLE
D.I.	DRAIN INLET	SL	STREET LIGHT
	DRAWINGS	SLB	STREET LIGHT BOX
E/ELEC.		SMH	
	ELEVATION		STREET NAME
•	EXIST. EDGE OF PAVEMENT	STA.	STATION
EP	NEW EDGE OF PAVEMENT	TC	TOP CURB
es	EXIST. EDGE OF SHOULDER	TDC	TOP DROP CURB
ES			TELEPHONE
EXIST.	EXISTING	TP	TOP PIPE
F.H.	FIRE HYDRANT	TRC	TOP ROLLED CURB
G	GAS	TS	TOP STEM
GDI -	GRATED DRAIN INLET	TSL	TRAFFIC SIGNAL LIGHT
GND.	GROUND	TSLB	TRAFFIC SIGNAL LIGHT BOX
G.P.	GUARD POST/GUY POLE/	TV	TOP VALVE
	GATE POST	TW	TOP WALL
G. W.	GUY WIRE	TYP.	TYPICAL
G/R	GUARDRAIL	U.P.	UTILITY POLE
Н	HEIGHT	W	WATER
HC	HORIZONTAL CONTROL	W/	WITH
HW	HEADWALL	WM	WATER METER
ICV	IRRIGATION CONTROL VALVE	WMH	WATER MANHOLE
INV.	INVERT	WV	WATER VALVE
LHC	LEFT HORIZONTAL CONTROL	X-WALK	CROSS WALK
LIIU	LLI I HONIZONIAL CONTROL	To a second to	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>GENERAL NOTES</u>

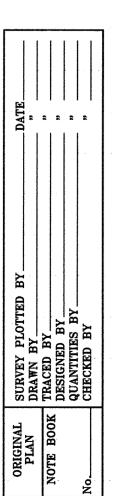
KAHEKILI HIGHWAY INTERSECTION IMPROVEMENTS

VICINITY OF HUI IWA STREET

FEDERAL—AID PROJECT NO. NH—083—1(60)

DATE: April 2007

SHEET No. C-1 OF 90 SHEETS



ED. ROAD STATE FED. AID PROJ. NO. FISCAL SHEET NO. SHEETS HAWAII HAW. NH-083-1(60) 2007 4 90

WATER NOTES FOR STATE PROJECTS

- 1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", dated 2005, as amended, of the Hawaii Highways Division, Department of Transportation, and the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS" dated 2002, the "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", Volume 3, dated 1991, and all subsequent amendments and additions.
- 2. 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.
- 3. The Contractor shall notify BWS Capital Projects Division, Construction Section in writing one week prior to commencing work on the water system.
- 4. 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 not assume that where no utilities are shown, that none exist.
- 5. Re—approval shall be required if this project is not under construction within a period of two years from BWS approval.
- 6. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees, and bends wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction block. The Contractor shall take whatever measure necessary to protect the water lines, such as constructing special reaction block (with BWS approval) and/or modifying his construction method.
- 7. Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances.
- 8. At the electrical/signal ductline water crossings, adjust all electrical/signal ductline elevations to maintain 6" vertical clear separation from all waterlines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to the Board of Water Supply.
- 9. 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.

APPROVED:

SURVEY PLOTTE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

DIRECTOR, CITY DEPARTMENT OF ENVIRONMENTAL SERVICES

DATE

Tobut Chum

For CHIEF, CAPITAL PROJECTS DIVISION, BWS M.

DATE

Dennis m. Mishimuri 6/7/07

CHIEF, WASTEWATER BRANCH, DPP W

DATE

- 10. 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.
- 11. The Contractor shall verify all existing service lateral locations whether shown or not shown on plans prior to commencing with any of the work and shall not assume that where no services are shown, none exist.
- 12. The Contractor shall adjust all manhole frames/valve boxes/meter boxes within the resurfaced area. The Contractor shall be responsible for "referencing" these manholes/valve boxes/meter boxes to facilitate the adjustments.
- 13. Maintain 3'-0" minimum cover for all existing waterlines (18" minimum for service lateral) from new finish grade. The contractor shall probe the waterline and service laterals and submit the probing data to BWS Engineering Division, Construction Section. Any adjustments to the existing water system to meet the minimum cover and the requirements of the BWS standards, whether shown on plans or not, shall be done by the Contractor at no cost to BWS.

SEWER NOTES

- 1. All sewer construction shall be performed in accordance with the City's standard specifications, Sept. 1986, the Department of Public Works standard details, Sept. 1984, current city practices and Revised Ordinances of Honolulu, 1990 as amended, and the Design Standards of the Department of Wastewater Management Vol. 1, July 1993.
- 2. The contractor shall notify the Inspection Section, Wastewater Branch, DDC, at 768-8788 or 768-8770 to arrange for inspection services and submit four (4) sets of approved construction plans seven (7) days prior to commencement of sewer work. The contractor shall pay for all inspection cost.
- 3. The contractor shall notify the following divisions of the City Department of Environmental Services seven (7) days prior to the start of construction so that they will be aware that work will be done around the existing sewer force main which is critical to their operations. The contractor shall provide each division with a set of approved construction plans.
 - A. Windward Operations Branch, Wastewater Treatment and Disposal Division at 254-4063.

 B. Collections System Maintenance Division at 768-7220 or 768-7229.
- 4. The underground pipes, cables or ductlines known to exist by the engineer from his research of records are indicated on the plans. The contractor shall verify the location and depth of the facilities, including and affecting sewer lines, in the presence of Wastewater inspector and exercise proper care in excavating the area. The contractor shall be responsible and shall pay for all damaged utilities.
- 5. The contractor shall be responsible for maintaining continuos sewer service to all affected areas during construction.

- 6. The contractor shall be responsible for any sewage spills caused during construction. The contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedure. the contractor shall be responsible for all public notifications and press releases.
- 7. Confined Space: For entry by city personnel, including inspectors, into a permit required confined space as defined in 29 CFR part 1910.146(b(), the contractor shall be responsible for providing:
 - A. All Safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not to be limited to, the following:
 - 1) Full body harnesses for up to two personnel.
 - 2) Lifeline and associated clips.
 - 3) Ingress/egress and fall protection equipment.
 - 4) Two-way radios (walkie-talkies) if out of line-of-sight.
 - 5) Emergency (escape) respirator (10 minute duration).
 - 6) Cellular telephone to call for emergency assistance.
 - 7) Continuous gas detector (calibrated) to measure for oxygen, hydrogen sulfide, carbon monoxide and flammable gas (capable of monitoring at a distance of 20—feet away)
 - 8) Personal multi-gas detector to be carried by inspector.
- 8. At the electrical/signal ductline sewer crossing, adjust all electrical/signal elevations to maintain 24 inches vertical clear separation from sewer lines, at no cost to the City.
- 9. Maintain 3'-0" minimum horizontal clear separation between all sewer line system and nearest electrical/signal ductline & pullboxes/handholes paralleling the sewer system at no cost to the City.
- 10. Maintain 5'-0" minimum horizontal clear separation between street light/traffic standards (including any modular units), and the nearest sewer 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 city.

ADJUSTMENT TO EXISTING UTILITIES NOTES:

- 1. Adjust all utilities valve box frames & covers, water meter boxes, manhole frames & covers, street monuments covers, etc., to new finish grade. Coordinate with private companies and City agencies for work on each respective utility.
- 2. For sewer manhole (SMH) adjustments upward less than 3", see city Std. detail S-25. For SMH adjustments upward greater than 3" or for any adjustments downward, reconstruct SMH top from below cone section.

GENERAL NOTES

KAHEKILI HIGHWAY INTERSECTION IMPROVEMENTS

VICINITY OF HULLIWA STREET

APRIL 30, 2008

EXPIRATION DATE OF LICENSE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ENGINEER

VICINITY OF HUI IWA STREET
FEDERAL—AID PROJECT NO. NH—083—1(60)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

 DATE:
 April
 2007

 SHEET No. C−2
 OF
 90
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WATER POLLUTION AND EROSION CONTROL NOTES

1. General:

- A. The Contractor is reminded of the requirements of Section 209 Water Pollution, Dust and Erosion Control, in the Special Provisions. 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.
- B. 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) Devices for the project.
- C. The Engineer may assess liquidated damages of up to \$27,500 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.
- D. The Contractor shall follow the guidelines in the Honolulu's City & County "Rules for Soil Erosion Standards and Guidelines" for all projects on Oahu. Use applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
- E. 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.
- F. 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.

2. Waste Disposal:

A. 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.

B. 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.

C. Sanitary Waste

All sanitary waste shall be collected from the portable units a minimum of once per week, or as required.

- 3. Erosion and Sediment Control Inspection and Maintenance Practices:
- A. All control measures shall be inspected at least once each week and following any rainfall event of 0.5 inches or greater.
- B. All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
- C. Built-up sediment shall be removed from silt fence when it has reached one—third the height of the fence.
- D. 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. The bottom of the silt screen shall be inspected and verified that it is buried a minimum of 6 inches below the existing ground.
- E. Temporary and permanent seeding and planting shall be inspected for bare spots, washouts and healthy growth.
- F. A maintenance inspection report shall be submitted one (1) working day after each inspection by the Contractor.
- G. 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.
- H. 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.
- 4. Good Housekeeping Best Management Practices:
- A. Materials Pollution Prevention Plan
 - 1) 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

- 2) 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.
- 3) 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.
- 4) Products shall be kept in their original containers with the original manufacturer's label.
- 5) Substances shall not be mixed with one another unless recommended by the manufacturer.
- 6) Whenever possible, a product shall be used up completely before disposing of the container.

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- 7) Manufacturer's recommendations for proper use and disposal shall be followed.
- 8) The Contractor shall conduct a daily inspection to ensure proper use and disposal of materials onsite.
- B. Hazardous Material Pollution Prevention Plan
- 1) Products shall be kept in original containers unless they are not resealable.
- 2) Original labels and material safety data sheets (MSDS) shall be retained.
- 3) Surplus products shall be disposed of according to manufacturers' instructions or local and State recommended methods.
- C. Onsite and Offsite Product Specific Plan
 - 1) The following product specific practices shall be followed onsite:
 - a. Petroleum Based Products:

All onsite vehicles and equipment 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 recommendations. Stored petroleum products shall be kept in an area prepared to prevent contamination or spill.

b. Fertilizers:

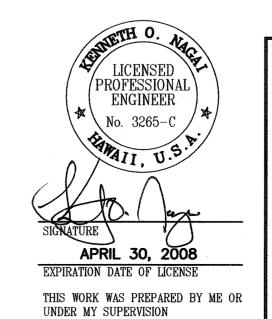
Fertilizers used shall be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer shall be worked into the soil to limit exposure to storm water. Storage shall be in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable 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 Clean Water Branch, Department of Health at 586–4309 to receive permission to designate a disposal site. The Contractor shall clean disposal site as required or as requested by the Owner's representative.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>GENERAL NOTES</u>

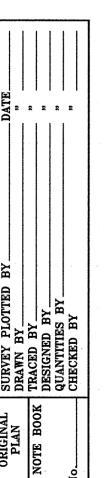
KAHEKILI HIGHWAY INTERSECTION IMPROVEMENTS

VICINITY OF HUI IWA STREET

FEDERAL—AID PROJECT NO. NH—083—1(60)

DATE: April 2007

SHEET No. C-3 OF 90 SHEETS



WATER POLLUTION AND EROSION CONTROL NOTES (CONT.)

2) 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.

D. Spill Control Plan

- 1) A spill prevention plan shall be posted to include measures to prevent and clean up each spill.
- 2) 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 or project office.
- 3) 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.
- 4) Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite.
- 5) All spills shall be cleaned up immediately after discovery.
- 6) The spill area shall be kept well ventilated and personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- 7) Spills of toxic hazardous material shall be reported to the appropriate State or local government agency, regardless of the size.

E. Saw Cutting:

- 1) The saw—cutting slurry shall not be left in place and shall be wet vacuumed immediately following the saw cutting operations. The vacuumed slurry shall be disposed of in accordance with applicable State and County regulations.
- F. Permit Requirements:
- 1) If 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 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. Permits may include but are not limited to the following:
- a. NPDES Permit for Construction Activities
- b. NPDES Permit for Construction Dewatering

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL NOTES

- 1. Erosion and Sediment Control Inspection and Maintenance Practices shall be performed by the Contractor at his own expense.
- A. The Contractor shall furnish and install a rain gage as agreed by the Engineer, and provide daily rain gage readings to the Engineer.
- B. The Contractor shall inspect the erosion and sediment control measures at least once a week and after 0.5 inches of rainfall.
- C. The Contractor shall maintain the erosion and sediment control measures according to the contract. If a repair is necessary, the Contractor shall initiate the repairs within twenty—four (24) hours after the inspection such as:
 - 1) When sediment build—up reaches one—third (1/3) the height of the silt fence, the Contractor shall remove and dispose of the sediment build—up.
 - 2) When the depth of the sediment basin reaches ten percent (10%) of the design capacity, the Contractor shall remove and dispose of the sediment build—up.
 - 3) When tears are found on the silt fence, the Contractor shall replace the fabric.
 - 4) The Contractor shall check to see if the fabric is securely attached to the fence posts and to see that the fence posts are firmly in the ground. Post spacing shall be 6' maximum.
 - 5) The Contractor shall inspect the diversion dike and repair the breaches.
- 6) The Contractor shall inspect temporary and permanent seeding and planting for bare spots, washouts, and healthy growth, and maintain seeping and planting area.
- D. The Contractor shall have its personnel make a maintenance inspection report promptly after each inspection. The Contractor shall select a minimum of three (3) personnel who will be responsible for inspection, maintenance, repair activities, and filling out the inspection and maintenance report. Personnel selected for the inspection and maintenance responsibilities will receive training from the Contractor. The Contractor shall train these personnel in the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite according to the contract.

2. Submittal Requirements:

- A. Construction activities of one (1) acre or more.

 State (Design/Consultant) shall apply for NPDES Permit during design. Only required documentation from the Contractor should be site—specific BMP, Solid Waste Disposal form and any other documentation required by DOH which cannot be obtained in advance.
- B. Storm water discharged into State waters due to construction activities will require an NPDES permit from the Department of Health (DOH). The Contractor shall submit to the Engineer six (6) sets of Site—Specific Best Management Practices Plans (BMP). The Plans shall be submitted no later than two (2) weeks after the award of contract.
- C. Contractor shall not start work until all required documentation including site—specific BMP are accepted by DOH.

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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	RIGHT OF WAY
—····→	FLOW LINE
	EXIST. CHAIN LINK FENCE
	NEW UNDER DRAIN
D ₃₀	NEW DRAIN LINE
	EXIST DRAIN LINE
W12	EXIST DRAIN LINE
S15"	EXIST. SEWER LINE
SFM16	EXIST SEWER FORCE MAIN
	DENOTES ACCESS PERMITTED AND RIGHT OF WAY
-	NEW GUARD RAIL
	EXIST. GUARD RAIL
	LIMITS OF GRADING
× 140.3	EXIST. SPOT ELEVATIONS
140	EXIST CONTOURS



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
AND LEGEND

KAHEKILI HIGHWAY INTERSECTION IMPROVEMENTS

VICINITY OF HUI IWA STREET

FEDERAL—AID PROJECT NO. NH—083—1(60)

DATE: April 2007

SHEET No. C-4 OF 90 SHEETS

