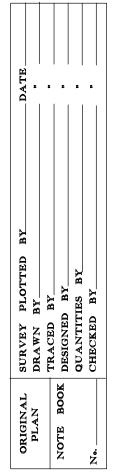
А.	GENERAL:
1.	See Special Provisions Section 209 - Water Pollution a limited to: submittal requirements; scheduling of a wat Engineer; construction requirements; method of measur lists potential pollutant sources and corresponding BMF
2.	Follow the guidelines in the current HDOT Constru- developing, installing and maintaining the Best Mana conflicting requirements between the Manual and app will govern. Should a requirement not be clearly a Contractor shall notify the Engineer immediately for in Note A.2, "applicable bid documents" include the c Provisions, Permits, and the Storm Water Pollution Pre-
3.	Follow the guidelines in the Honolulu's City & County " Guidelines" along with applicable Soil Erosion Guideline
4.	The Engineer may assess liquidated damages of up to Requirement and each requirement stated in Section 20 non-compliance. There is no maximum limit on the amou
5.	The Engineer will deduct the cost from the progress for non-compliance, or the Contractor shall reimburse t cost incurred by the State.
6.	If necessary, install a rain gage prior to any field wo management practices. The rain gage shall have a toler rain gage on the project site in an area that will not not install in a location where rain water may splash stable and plumbed. Do not begin field work until the r management practices are in-place.
7.	Submit Site-Specific BMP Plan to the Engineer along within 21 calendar days of contract execution. The Sin from <u>http://www.stormwaterhawaii.com</u> .
8.	The Contractor shall consider and install BMP mea prolonged rainfall, and to address the potential problem
9.	All areas used in support of construction activities di not limited to, staging areas, construction entrance/ex during construction in accordance with Section 209 of and Public Works Construction. These areas shall be completion of construction. Disturbed and exposed are cover, pavement, or equivalent to match pre-existing or
10.	Final stabilization and restoration of disturbed or of construction is completed and the construction support
11.	The State reserves the right to determine the a implemented BMPs. Additional BMP measures required
12.	The Contractor shall be responsible for all damages ar
13.	The Contractor shall be responsible for any citations of program on this permit, whether directly levied against
14.	The Contractor may discuss proposed and implement District Engineer.



### OTES:

rosion Control. Section 209 describes but is not ollution and erosion control conference with the t; and basis of payment. In addition, Appendix A sed to mitigate the pollutants.

Best Management Practices Field Manual in ent Practices (BMP) for the project. For any le bid documents, the applicable bid documents ibed within the applicable bid documents, the retation. For the purposes of clarification under ruction plans, standard specifications, Special on Plan (SWPPP) when applicable.

Relating to Soil Erosion Standards and projects on Maui, Molokai, Kauai, and Hawaii.

500 for non-compliance of each BMP d special provisions, for every day of ssessed per day.

ent for all citations received by the Department tate for the full amount of the outstanding

ncluding the installation of any site-specific best of at least 0.05 inches of rainfall. Install the er rainfall from entering the gage opening. Do rain gage. The rain gage installation shall be gage is installed and site-specific best

a completed Site-Specific BMP Review Checklist ecific BMP Review Checklist may be obtained

which take into account high intensity and hat may occur.

bed or damaged by the Contractor, including but nd travel routes, shall be temporarily stabilized 2005 Standard Specifications for Road, Bridge, tored to their original condition or better upon shall be permanently stabilized using vegetative r condition as approved by the State.

ged areas shall begin immediately as soon as as are no longer used.

priateness and adequacy of proposed and/or he State shall not be paid for by the State.

injuries resulting from the BMPs.

nes that may be levied as related to the NPDES Contractor of the Department of Transportation.

BMP measures and the adequacy of them with

#### WASTE DISPOSAL: Β.

- 1. Waste Materials intermediary facility where solid waste is handled or processed.
- 2. Hazardous Waste seeing that these practices are followed.
- 3. Sanitary Waste facilities where they are secure and will not be tipped over or knocked down.
- in the SWPPP.
- repair shall begin on the following work day.

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Collect and store all waste materials in a securely lidded metal dumpster or roll off container with cover to keep rain out or loss of waste during windy conditions. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster weekly or when the container is two-thirds full, whichever is sooner. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer, on a weatherproof bulletin board, or other accessible location acceptable to the Engineer. The Contractor shall be responsible for seeing that these procedures are followed. Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 21 calendar days of contract execution. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any

Dispose all hazardous waste materials in the manner specified by local or State regulations and by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for

Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary

### C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found

#### 2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.

3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of

4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.

LICENSED PROFESSIONAL ENGINEER No. 10377-C HAUI, U.S.P.	STATE OF HAWAIT DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>WATER POLLUTION AND</u> <u>EROSION CONTROL NOTES-1</u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2
Cum PAnner 04/30/24	Fed. Aid Proj. No. ER-24(007)
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# WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

- silt screen is buried a minimum of 6 inches below the existing ground.
- 6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.
- 8. Provide a stabilized construction entrance at all points of exit onto paved roads 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 12 inches or as other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the the day in which the track-out occurs.
- 9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- 10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
- practices. Do not allow discharge into the drainage system or State waters.
- completion of earth-disturbing activities for areas where earth-disturbing activities have permanently or temporarily ceased. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 discharge point may be found in the SWPPP.
- 14. For projects without an NPDES Permit for Construction Activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.
- 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 Detergents Paints (enamel and latex) Metal Studs Tar Fertilizers Petroleum Based Products

Cleaning Solvents Wood Masonry Block Herbicides and Pesticides Curing Compounds Adhesives

- substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- roof or other enclosure.
- d. Keep products in their original containers with the original manufacturer's label.
- e. Do not mix substances with one another unless recommended by the manufacturer.

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5. Inspect silt screen or fence 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. Inspect and verify the bottom of the

recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of

11. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They

12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP

13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of 14 or more calendar days, but such activities will resume in the future. For construction areas discharging into waters not impaired for nutrients sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities. calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the

b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a

- 2. Hazardous Material Pollution Prevention Plan
  - regulations.
- 3. Onsite and Offsite Product Specific Plan
  - a. Petroleum Based Products:
  - b. Fertilizers:
- c. Paints:
- d. Concrete Trucks:

4. Spill Control Plan

- e. Clean up all spills immediately after discovery.
- from contact with a hazardous substance.

f. Whenever possible, use a product up completely before disposing of the container. q. Follow manufacturer's recommendations for proper use and disposal. h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

a. Keep products in original containers unless they are not resealable. b. Retain original labels and Safety Data Sheets (SDS), formerly Material Safety Data Sheets (MSDS). c. Dispose of surplus products according to manufacturers' instructions and local and State or Federal

The following product specific practices shall be followed onsite:

Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or storm water. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State Waters. Dispose properly according to manufacturers' instructions and State or Federal and local regulations.

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

a. Post a spill prevention plan to include measures to prevent and clean up each spill.

b. The Contractor shall be the spill prevention and cleanup coordinator. 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. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.

c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.

d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.

f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury

C C C C C C C C C C C C C C	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>WATER POLLUTION AND</u> <u>EROSION CONTROL NOTES-2</u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Cump Ann 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2 Fed. Aid Proj. No. ER-24(007)Scale: NoneDate: Jan. 2023SHEET No. EC-2 OF5 SHEETS
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WATER POLLUTION AN	D EROSION CONTROL NOT
to or in excess of a rep 117, or 40 CFR Part 302 Engineer as soon as the National Response Center business hours at 586-43 <u>cleanwaterbranch@doh.hav</u> Emergency Response Off and the local Emergency to the Engineer, within 1 the circumstances leading	her release containing a hazardous ortable quantity established under occurs during a 24-hour period, the Contractor has knowledge of the Contractor has knowledge of the (NRC) at (800) 424-8802, the Clea 309, and the Clean Water Branch ( <u>waii.gov</u> during non-business hours ice at (808) 586-4249, the Coast Gu Planning Committee at (808) 720-7 calendar day of knowledge of the g to the release, and the date of the OH-CWB. The Engineer will provide
E. PERMIT REQUIREMENTS:	
not including Contractor Sta Contractor Staging and Stol Construction Activities Perm Rules Chapter 11-55, Append responsible for obtaining th	ance area for this project based of aging and Storage areas. If the to rage area is one acre or greater, t nit using HDOT's latest SWPPP ter ix C for the definition of land dis e required NPDES Construction Ac including, but not limited to:
b. Increased inspection freq c. Deadlines to initiate and	nd completing initial stabilization quency and installation of rain gag complete repairs to BMPs nd corrective action reports
2. Comply with all applicable S but not limited to the follow	tate and Federal Permit conditions ving:
a. NPDES Permit for Const	ruction Activities
b. NPDES Permit for Const	ruction Dewatering
c. NPDES Permit for Hydro	testing Waters
d. Water Quality Certificatio	n
e. Stream Channel Alteration	n Permit
f. Section 404 Army Corps of	of Engineer Permit

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## TES (Cont.):

is substance or oil in an amount equal either 40 CFR Part 110, 40 CFR Part the Contractor shall notify the discharge. The Engineer will notify the an Water Branch during regular (DOH-CWB) via email ať

s, the DOH Hazard Evaluation and Guard Maui Station at (808) 986-0023, 7285. The Contractor shall also provide release, a description of the release, the release. The Engineer will provide le information to the NRC if requested.

on the construction plans is 0.1 acres otal of the disturbed area and the the Contractor shall obtain the NPDES emplate. See Hawaii Administrative sturbance. The Contractor shall be ctivities Permit and complying with the

ge if applicable

s. Permits may include,

### F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at http://www.stormwaterhawaii.com/resources under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <u>http://stormwaterhawaii.com/contractors/contractors\_BMPmanual.aspx</u> under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-2).

- 2. Contain on-site runoff using Perimeter Sediment Controls a. SC-1 Silt Fence
- b. SC-5 Vegetated Filter Strips and Buffers
- c. SC-8 Compost Filter Berm
- d. SC-13 Sandbag Barrier
- e. SC-14 Brush or Rock Filter
- 3. Control offsite runoff from entering construction area a. EC-8 Run-On Diversion
- b. SC-6 Earth Dike
- c. SC-7 Temporary Drains and Swales
- 4. Incorporate applicable Site Management BMP a. SM-1 Employee Training
- b. SM-2 Material Delivery and Storage
- c. SM-3 Material Use
- d. SM-4 Protection of Stockpiles
- e. SM-6 Solid Waste Management
- f. SM-7 Sanitary/Septic Waste Management
- g. SM-9 Hazardous Waste Management
- h. SM-10 Spill Prevention and Control
- i. SM-11 Vehicle and Equipment Cleaning
- j. SM-12 Vehicle and Equipment Maintenance
- k. SM-13 Vehicle and Equipment Refueling
- I. SM-14 Scheduling
- m. SM-15 Location of Potential Sources of Sediment
- n. SM-16 Preservation of Existing Vegetation
- o. SM-18 Dust Control
- Restrict vehicle access to these points.
- (California Stormwater BMP Handbook NS-12 Concrete Curing).
- perimeter sediment controls during saw cutting and hydrodemolition work.

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5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (EC-2) for all areas which exit onto a paved street.

6. Manage Concrete Waste including installing a Concrete Washout Area (SM-5) and properly disposing of Concrete Curing Water

7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or

LICENSED PROFESSIONAL ENGINEER No. 10377-C HAII, U.S.P.	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>WATER POLLUTION AND</u> <u>EROSION CONTROL NOTES-3</u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Comp Ann 04/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2 Fed. Aid Proj. No. ER-24(007)Scale: NoneDate: Jan. 2023SHEET No. EC-3 OF5 SHEETS
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### STAGING AREA NOTES:

- 1. Place and tack down geotextile fabric over sheet plastic at staging area.
- 2. Place Biosocks or silt fence along low end of staging area perimeter to filter staging area runoff.
- 3. Place drip pans under all vehicles and equipment.
- 4. Provide spill kits at all staging areas.
- 5. Secure and provide secondary containment for portable toilets.

### STORAGE AREA NOTE:

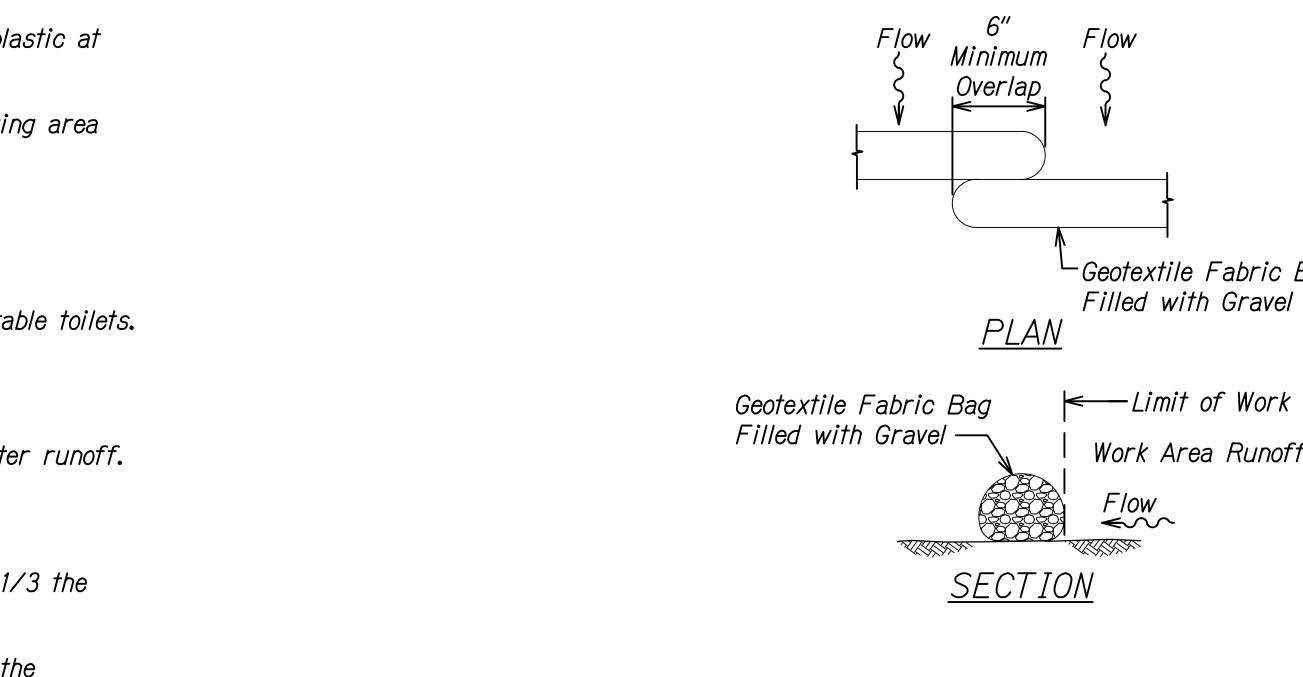
1. Place Biosocks along storage area perimeter to filter runoff.

### BIOSOCK COMPOST FILTER SOCK NOTES:

- 1. Remove accumulated sediment when depth reaches 1/3 the barrier height.
- 2. Biosock material and compost shall be removed at the completion of construction (or a phase of construction) and shall be disposed or properly.
- 3. No staking is required for slopes < 4:1.
- 4. Compost shall not contain biosolids and should be consistent with United States Environmental Protection Agency guidelines.

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└─Geotextile Fabric Bag

Work Area Runoff

<u>GRAVEL BAG DETAIL</u>

Not to Scale

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	WATER POLLUTION &
No. 10377-C	EROSION CONTROL DETAILS
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