WATE	ER POLL	UTION	AND	EROSION	CONT P	ROL NO
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Revie	ew Checklis	t within	21 caler	to the Engi ndar days of <u>http<b>://</b>www</u>	f date of a	award.
B. WAS	STE DISPO	SAL:				
Colle conta shall cons conta onsit for bulle resp Forn a cop recei	ainer with o meet all lo truction del ainer is two te. The Coni waste dispo tin board, o onsible for on for Const by of all th ive solid wa	re all was cover to bcal and bris from p-thirds t tractor's osal. Post or other seeing the ruction S aste to the	keep ra State s full, wh supervi accessi hat thes al recei he Engi	erials in a s in out or los olid waste n te in the du ichever is s sory person s stating the ble location se procedure the Enginee pts from the neer monthly d waste is h	ss of wast management mpster. En ooner. Do f nel shall b ese practic acceptable es are folle s are folle facility p facility p	te during t regulat mpty the not bury e instru ces in the to the l owed. Su owed. Su ould also
Disp by th	he manufaci	ardous w turer. Th	e Contr	aterials in th actor's site that these p	personnel	shall be

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ORIGINAL	PLAN	NOTE BOOK			No.	

L NOTES:		FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	3. Sanitary Waste	HAWAII	HAW.	ER-24(003)	2023	9	100
1 Erosion Control. Section 209	Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down						

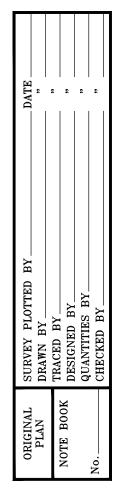
- eduling of a water pollution ion requirements; method A lists potential pollutant ants.
- st Management Practices est Management Practices veen the Manual and govern. Should a requirement the Contractor shall notify s of clarification under plans, standard ater Pollution Prevention
- Relating to Soil Erosion n Guidelines for projects on
- 500 for non-compliance of ion 209 and special kimum limit on the amount
- ent for all citations received II reimburse the State for the full
- cluding the installation of any have a tolerance of at least 0.05 in an area that will not deter location where rain water be stable and plumbed. Do not pecific best management practices
- completed Site-Specific BMP The Site-Specific BMP Review <u>'i.com.</u>
- netal dumpster or roll off ng windy conditions. The dumpster ations. Deposit all trash and e dumpster weekly or when the y construction waste materials ucted regarding the correct procedure the office trailer, on a weatherproof Engineer. The Contractor shall be Submit the Solid Waste Disclosure dar days of date of award. Provide ed by the Department of Health to so include documentation from any ssed.
- fied by local or State regulations and be instructed in these practices and owed.

over or knocked down.

- 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 in the SWPPP.
- 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 repair shall begin on the following work day.
- 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.
- 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 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 recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of 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 designate inspections, maintenance and repair activities and inspection and maintenance report.
- 11. Personnel selected for the inspection and maintenal responsibilities shall receive training from the Conti shall be trained in all the inspection and maintenand necessary for keeping the erosion and sediment con onsite in good working order.

-		
ed responsible for filling out the	LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
5	★ ENGINEER ★ No. 7269-C	WATER POLLUTION & EROSION CONTROL NOTES
nce ractor They	AWAII U.S.F.	<u>KUHIO HIGHWAY</u>
ractor. They ce practices	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>Emergency Slope Stabilization</u> for Hanalei Hills and Waikoko
trols used	SIGNATURE EXPIRATION DATE	F.A.P. Project No. ER-24(003)
	OF THE LICENSE	Scale: NoneDate: Sept. 2022SHEET No.EC-1OF4SHEET SolutionSHEETS
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WATER POLLUTION AN	ND EROSION CONTROL NOT
12. Contain, remove, and d accordance with appro system or State water	lispose slurry generated from saw ca wed BMP practices. Do not allow dis s.
stabilizing exposed so where earth-disturbing activities have perman construction site that disturbing activities ha any area of the site th land will be idle) for resume in the future. nutrients sediments, co temporary or permaner discharging into nutrie within 7 calendar days	NPDES Permit for Construction Acti il areas upon completion of earth-dis g activities have permanently or temp ently ceased when clearing and exca will not include permanent structure ave temporarily ceased when clearing hat will not include permanent struc a period of 14 or more calendar day For construction areas discharging omplete initial stabilization within 14 nt cessation of earth-disturbing active ent or sediment impaired waters, cons s after the temporary or permanent on of water at the discharge point m
	an NPDES Permit for Construction A calendar days after the temporary c ties.
D. GOOD HOUSEKEEPING	BEST MANAGEMENT PRACTICES:
* *	vention Plan or substances listed below are expe Other materials and substances not .
Concrete Detergents Paints (enamel and la Metal Studs Tar Fertilizers Petroleum Based Pro	Herbicides and Pestici Curing Compounds Adhesives
exposure of materials only enough product a c. Store all materials s containers and if pos d. Keep products in the e. Do not mix substance f. Whenever possible, us g. Follow manufacturer	ment Practices to reduce the risk of s and substances to storm water run as is required to do the job. stored onsite in a neat, orderly manne sible under a roof or other enclosur er original containers with the origin es with one another unless recommen se a product up completely before di s's recommendations for proper use a ection to ensure proper use and disp
b. Retain original labels Sheets (MSDS).	ollution Prevention Plan ginal containers unless they are not s and Safety Data Sheets (SDS), for products according to manufacturers
a. Petroleum Based Pro Monitor all onsite veh reduce the chance of	specific practices shall be followed o
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# ES (Cont.):

utting of pavement in scharge into the drainage

ivities, immediately initiate sturbing activities for areas porarily ceased. Earth-disturbing wation within any area of the es has been completed. Earthg, grading, and excavation within tures will not resume (i.e., the s, but such activities will into waters not impaired for calendar days after the vities. For construction areas mplete initial stabilization cessation of earth-disturbing may be found in the SWPPP.

Activities, complete initial or permanent cessation of

ected to be present onsite listed below shall be added

ides

spills or other accidental noff. Make an effort to store

er in their appropriate nal manufacturer's label. nded by the manufacturer. sposing of the container. and disposal. posal of materials onsite.

resealable. merly Material Safety Data

instructions and local and

onsite:

preventive maintenance to in tightly sealed containers which according to the manufacturer's

## b. Fertilizers:

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 stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

### c. Paints:

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 and local regulations.

### d. Concrete Trucks:

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.

## 4. Spill Control Plan

- 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.
- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at <u>cleanwaterbranch@doh.hawaii.gov</u> during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-24(003)	2023	10	100

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
★ (ENGINEER No. 7269-C	WATER POLLUTION & EROSION CONTROL NOTES
AWAII U.S.P.	KUHIO HIGHWAY
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>Emergency Slope Stabilization</u> for Hanalei Hills and Waikoko
SIGNATURE EXPIRATION DATE	F.A.P. Project No. ER-24(003)
SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: NoneDate: Sept. 2022SHEET No. EC-2 OF4SHEET No. EC-2 OF4
	10

# WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. The Project is exempt from the NPDES permit due to the Governor's Emergency Proclamation. However, the Engineer will execute the project as if the NPDES is applicable. See Hawaii Administrative Rules Chapter 11-55, Appendix C for the definition of land disturbance. The Contractor shall be responsible for complying with the requirements of HAR 11-55 including, but not limited to:

a. Deadlines for initiating and completing initial stabilization b. Increased inspection frequency and installation of rain gage if applicable c. Deadlines to initiate and complete repairs to BMPs d. Reporting requirements and corrective action reports

2. Comply with all applicable State and Federal Permit conditions.

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F. SITE-SPECIFIC BMP REQUIREMENTS:

Each BMP below is referenced to the corresponding Practices Field Manual and appropriate Supplemental Statewide Stormwater Management Program Website at and-consultants/ under Construction Best Management http://www.stormwaterhawaii.com/resources/contracto under Concrete Curing and Irrigation Water.

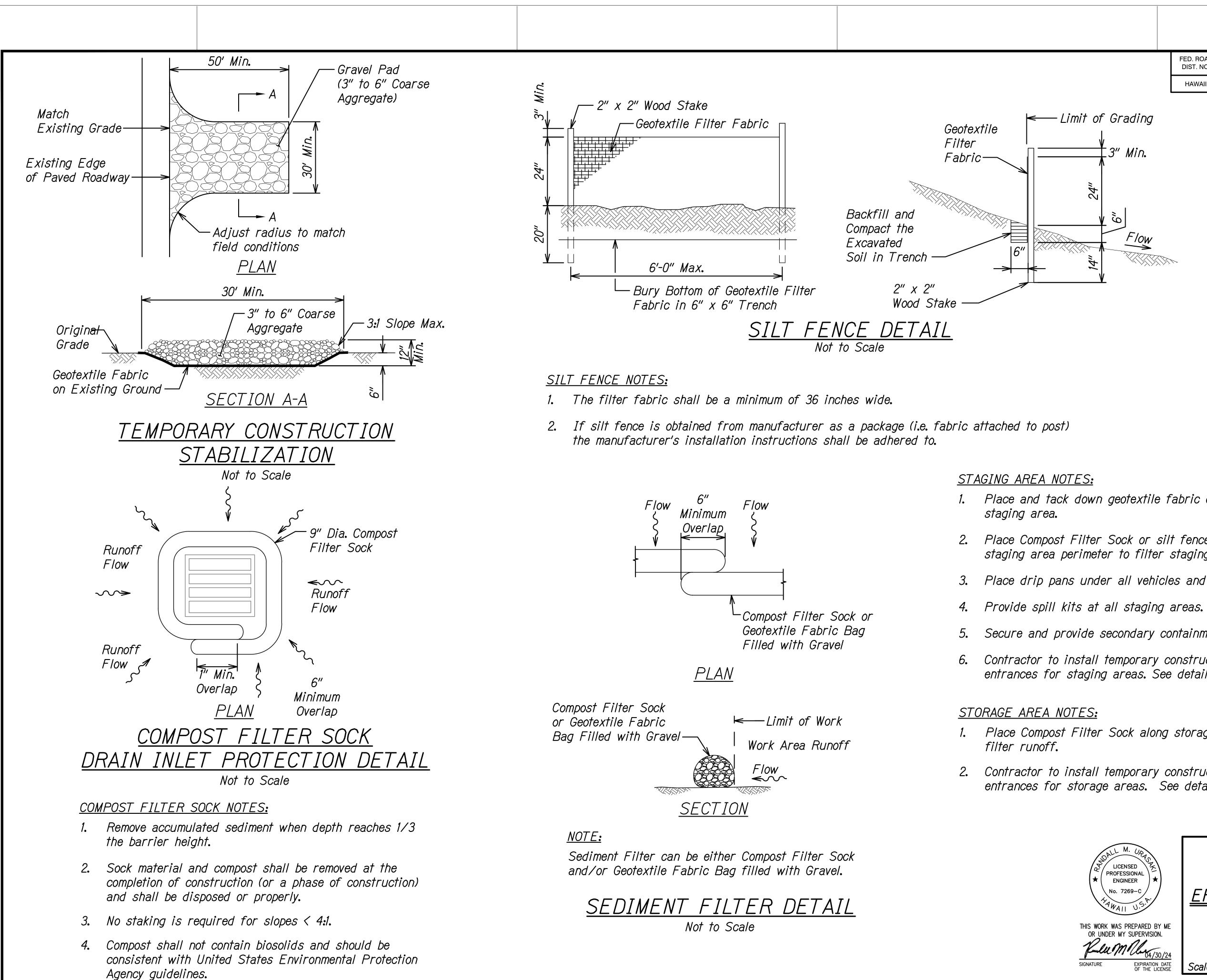
The requirements for Water Pollution, Dust, and Erosi the Hawaii Standard Specifications for Road and Brid Provisions. A list of pollutant sources and correspond in Section 209 of the Special Provisions under Append

Follow the requirements below:

- 1. Protect all Drainage Inlets receiving runoff from
- 2. Contain on-site runoff using Perimeter Sediment C a. SC-7 Silt Fence or Filter Fabric Fence
  - b. SC-2 Vegetated Filter Strips and Buffers
  - c. SC-6 Compost Filter Berm/Sock
  - d. SC-8 Sandbag Barrier
  - e. SC-9 Brush or Rock Filter
- 3. Control offsite runoff from entering construction a. EC-3 Run-On Diversion
- b. EC-6 Earth Dike, Swales, and Ditches
- 4. Incorporate applicable Site Management BMP
- a. SM-1 Employee Training
- b. SM-2 Material Storage and Handling
- c. SM-3 Stockpile Management
- d. SM-6 Solid Waste Management
- e. SM-7 Sanitary Waste Management
- f. SM-9 Hazardous Materials and Waste Managen
- g. SM-10 Spill Prevention and Control
- h. SM-11 Vehicle and Equipment Cleaning
- SM-12 Vehicle and Equipment Maintenance SM-13 Vehicle and Equipment Refueling
- *k*. SM-14 Scheduling
- I. SM-15 Location of Potential Sources of Sedime
- m. SM-16 Staging Area
- n. SM-17 Preservation of Existing Vegetation
- o. SM-19 Dust Control
- 5. Contain pollutants within the Construction Staging, Controls and Site Management BMP. Include a Sta which exit onto a paved street. Restrict vehicle ad
- 6. Manage Concrete Waste including installing a Conc. Curing Water (California Stormwater BMP Handboo
- 7. Remove saw cut slurry and hydrodemolition water and/or perimeter sediment controls during saw cut

		FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		HAWAII	HAW.	ER-24(003)	2023	11	100
ection of the current Sheets. The Manual m http://www.stormwa Practices Field Man rs-and-consultants/st	nay be obtained aterhawaii.com/ ual. Supplement	from th resource tal BMP	e HDC s/cont sheets	T Tractors- are located			
on Control submittals Ige Construction date Ing BMP used to miti Iix A.	d 2005 and ap	plicable .	Specia	/			
listurbed areas (SC-1,	).						
ontrols							
area							
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nt							
Storage Area BMP w bilized Construction a ccess to these points.	Entrance/Exit						
rete Washout Area (Si k NS-12 Concrete Curi		erly dispo	sing c	f Concrete			
from the site by vacu ting and hydrodemoli		le storm	drain	protection			
The and the oddition.	11011 WOI K.						
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11





FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	ER-24(003)	2023	12	100

- Place and tack down geotextile fabric over sheet plastic at
- 2. Place Compost Filter Sock or silt fence along low end of staging area perimeter to filter staging area runoff.
- 3. Place drip pans under all vehicles and equipment.
- 5. Secure and provide secondary containment for portable toilets.
- 6. Contractor to install temporary construction stabilization entrances for staging areas. See details on this Sheet.

- Place Compost Filter Sock along storage area perimeter to
- 2. Contractor to install temporary construction stabilization entrances for storage areas. See details on this Sheet.

HIS WORK WAS PREPARED BY ME	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>WATER POLLUTION &amp;</u> <u>EROSION CONTROL DETAILS</u> <u>KUHIO HIGHWAY</u> Emergency Slope Stabilization				
SIGNATURE EXPIRATION DATE OF THE LICENSE	<u>for Hanalei Hills and Waikoko</u> <u>F.A.P. Project No. ER-24(003)</u> Scale: None Date: Sept. 2022				
	SHEET No. <i>EC-4</i> OF <i>4</i> SHEETS <b>12</b>				