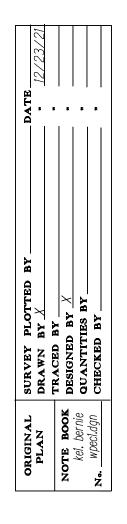
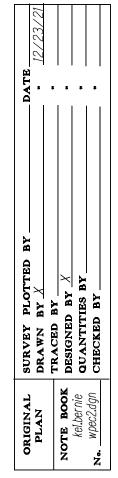
И	VATER POLLUTION AND EROSION CONTROL
Ă.	GENERAL:
1.	See Special Provisions Section 209 - Water Pollution and E describes but is not limited to: submittal requirements; sch and erosion control conference with the Engineer; construc of measurement; and basis of payment. In addition, Appendi sources and corresponding BMPs used to mitigate the pollu
2.	Follow the guidelines in the current HDOT Construction Be Field Manual in developing, installing and maintaining the E (BMP) for the project. For any conflicting requirements be applicable bid documents, the applicable bid documents will not be clearly described within the applicable bid document the Engineer immediately for interpretation. For the purpos Note A.2, "applicable bid documents" include the construction specifications, Special Provisions, Permits, and the Storm W Plan (SWPPP) when applicable.
3.	Follow the guidelines in the Honolulu's City & County "Rule Standards and Guidelines" along with applicable Soil Erosic Maui, Molokai, Kauai, and Hawaii.
4.	The Engineer may assess liquidated damages of up to \$27 each BMP requirement and each requirement stated in Sec provisions, for every day of non-compliance. There is no ma assessed per day.
5.	The Engineer will deduct the cost from the progress payment by the Department for non-compliance, or the Contractor sh amount of the outstanding cost incurred by the State.
6.	If necessary, install a rain gage prior to any field work in site-specific best management practices. The rain gage sha inches of rainfall. Install the rain gage on the project site rainfall from entering the gage opening. Do not install in may splash into rain gage. The rain gage installation shal begin field work until the rain gage is installed and site-s, are in-place.
7.	Submit Site-Specific BMP Plan to the Engineer along with Review Checklist within 21 calendar days of date of award. Checklist may be obtained from <u>http://www.stormwaterhaw</u>
B	. WASTE DISPOSAL:
1.	Waste Materials Collect and store all waste materials in a securely lidded r container with cover to keep rain out or loss of waste dur shall meet all local and State solid waste management regu construction debris from the site in the dumpster. Empty the container is two-thirds full, whichever is sooner. Do not bu onsite. The Contractor's supervisory personnel shall be inst for waste disposal. Post notices stating these practices in bulletin board, or other accessible location acceptable to the responsible for seeing that these procedures are followed. Form for Construction Sites to the Engineer within 21 cale a copy of all the disposal receipts from the facility permits receive solid waste to the Engineer monthly. This should all intermediary facility where solid waste is handled or proce
2.	Hazardous Waste Dispose all hazardous waste materials in the manner speci by the manufacturer. The Contractor's site personnel shall shall be responsible for seeing that these practices are for



L NOTES:		FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTA SHEET
A Erosion Control. Section 209 scheduling of a water pollution ruction requirements; method ndix A lists potential pollutant (Contractor Sections) Best Management Practices between the Manual and will govern. Should a requirement ents, the Contractor shall notify poses of clarification under stion plans, standard m Water Pollution Prevention (Contractor Section pains, standard m Water Pollution Prevention (Contractor Section posion Guidelines for projects on (Section 209 and special maximum limit on the amount) ayment for all citations received shall reimburse the State for the full	<ol> <li>Sanilary Wasle         Cellect 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 d         C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:         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         rainfail 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.         For projects without an NPDES Permit for Construction Activities, inspect all control         measures weekly.         Anditation 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         control or a significant repair is needed, installation of a new residue or sediment         contractor shall take all reasonable measures to minimize or prevent discharge of         pollutions until a permanent solution is installed and made operation, if arobiem         shall begin on the following work day.         Anence built-up sediment from slil fence when II has reached one-third the height of         the following work day.         Anence built-up sediment from other perimeter sediment         contractor shall the height of the device.         Anence built-up sediment from other perimeter sediment         contrul or a significant repair.         shall begin on the follow</li></ol>	red. own.	HAW.	56A-01-23M	2023	ADD.4	
ite in an area that will not deter in a location where rain water hall be stable and plumbed. Do not e-specific best management practices ith a completed Site-Specific BMP ard. The Site-Specific BMP Review	<ol> <li>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.</li> <li>Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.</li> <li>Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.</li> </ol>						
d metal dumpster or roll off during windy conditions. The dumpster egulations. Deposit all trash and y the dumpster weekly or when the bury construction waste materials instructed regarding the correct procedure in the office trailer, on a weatherproof the Engineer. The Contractor shall be ed. Submit the Solid Waste Disclosure alendar days of date of award. Provide mitted by the Department of Health to	3. 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	1/26/2 DATE		Revise title c	of the pr ISION	roject	
ocessed.	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.		DEPAR	STATE OF HA TMENT OF TRA HIGHWAYS DIV	WAII ANSPORT VISION		<u>OTES</u>
	1. 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.		a Road	<u>HWAY PAVE</u> to Vicinity c ject No. 564	of Waika A-01-23M	aea Bri	idge

WA	ATER POLLUTION AND EF	ROSION CONTROL NOT
	12. Contain, remove, and dispose accordance with approved BM system or State waters.	
	13. For projects with an NPDES stabilizing exposed soil areas where earth-disturbing activit activities have permanently ce construction site that will not disturbing activities have tem any area of the site that will land will be idle) for a period resume in the future. For cor nutrients sediments, complete temporary or permanent cessa discharging into nutrient or s within 7 calendar days after activities. Classification of wa	s upon completion of earth-di ties have permanently or tem eased when clearing and exc t include permanent structur porarily ceased when clearing of 14 or more calendar day initial stabilization within 14 ation of earth-disturbing act sediment impaired waters, co the temporary or permanent
	14. For projects without an NPD stabilization within 14 calenda earth-disturbing activities.	
	D. GOOD HOUSEKEEPING BEST	MANAGEMENT PRACTICES:
	1. Materials Pollution Prevention a. Applicable materials or subs during construction. Other m to the inventory.	stances listed below are expe
	Concrete Detergents Paints (enamel and latex) Metal Studs Tar Fertilizers Petroleum Based Products	Cleaning Solvents Wood Masonry Block Herbicides and Pest Curing Compounds Adhesives
	<ul> <li>b. Use Material Management Presence of materials and secondly enough product as is reconstructed of containers and if possible up to not mix substances with f. Whenever possible, use a prog. Follow manufacturer's reconstructed a daily inspection to the second constructed constructed a daily inspection to the second constructed constructe</li></ul>	ubstances to storm water ru equired to do the job. nsite in a neat, orderly mann nder a roof or other enclosu inal containers with the orig one another unless recomme oduct up completely before d mmendations for proper use
	2. Hazardous Material Pollution a. Keep products in original co b. Retain original labels and S Sheets (MSDS). c. Dispose of surplus products State regulations.	ontainers unless they are no Safety Data Sheets (SDS), foi
	3. Onsite and Offsite Product Sp The following product specific	
	a. Petroleum Based Products: Monitor all onsite vehicles fo reduce the chance of leakage are clearly labeled Apply asy	



<ul> <li>these introduces of the name of readonable circle call because provides provide in the material storage unce on a weathers tool build in bourd or other accessible incution acceptable to the light personnel in the material storage unce on a weathers tool build in bourd or other accessible incution acceptable to the light personnel and the storage unce on a weathers tool build in bourd or other accessible incution acceptable to the light personnel accessible incution acceptable to the light personnel aware of the procedures and the tocalion of the information and closing personnel aware of the procedures and the tocalion of the information and closing personnel aware of the procedures and the tocalion of the information and closing personnel aware of the procedures and the tocalion of the information and closing personnel aware of the procedures and the tocalion of the information and closing publics.</li> <li>c. Clearly post manufacturers' recommended methods for split cleanap. Hale site personnel aware of the procedures and the tocalion of the information and closing publics.</li> <li>c. Clearly post manufacturers' recommended methods for split cleanap. Hale site personnel aware of the procedures and the tocalion of the information and cleanap.</li> <li>k of splits or other accidentai runnel and cleanap. Post manufacturers' recommended inter accessing to a the information and cleanap.</li> <li>k of splits or other accidentai runnel and cleanap. Post manufacturers' recommended into accessing to a the information and cleanap.</li> <li>k of splits or other accidentai runnel and cleanap. Post manufacturers' recommended into accessing to a the information acceptable personnel aware of the proceedures and the tocal and the information and cleanap.</li> <li>k of splits or other accidentai runnel and cleanap. Post accessing of the information accessing to a the information accessing to ac</li></ul>	oital tor Se, of the ill		VISION	ject
<ul> <li>di lieled below shall be added</li> <li>and cleanup. Pear line names of responsible spill personnel in the material storage area on a weatherproof builelin board or other accessible location acceptable to the Engineer and in the office traiter onsite.</li> <li>asticides</li> <li>asticides</li> <li>charty past manufacturers' recommended methods for spill eleanup. Hake site personnel aware of the procedures and the location of the information and cleanup supplies.</li> <li>charty past manufacturers' recommended methods for spill eleanup. In the material storage area on site.</li> <li>charty past manufacturers' recommended methods for spill eleanup. In the material storage area on a weatherproof builelin board or other accessible location acceptable to the personnel aware of the procedures and the location of the information and cleanup supplies.</li> <li>a. Clean up all spills immediately after discovery.</li> <li>chean up all spills immediately after discovery.</li> <li>chean up all spills of toxic hazardous material to the appropriate protective cleaning a hazardous substance.</li> <li>g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the disce. Where a leak, spill, or other release containing a hazardous substance.</li> <li>g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the disce. The indicatence is a contactor, the global of the contactor, with notity the National Response Conter (NHC) at (800) 424 8802, the Clean Water eleanup and to fload of the release, and to fload of the release, and to fload of the release, and eleanuaterbace.</li> <li>not reseatable, formerity Material Safely Data</li> </ul>	oital tor Se, of the ill			
<ul> <li>Isted below shall be added</li> <li>and cleanup, Post the names of responsible spill personnel in the material storage area on a woalhorproof buildin beard or other accossible location accoptable to the Engineer and In the office traiter onsite.</li> <li>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.</li> <li>d. Keep emple materials and equipment necessary for spill cleanup in the material storage area onsite.</li> <li>e. Clean up all spills immediately after discovery.</li> <li>f. Keep the spill area well ventiliated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.</li> <li>g. Pepert spills of toxic hazardous substance or oil in an amount equal to or in excess of a annor in their appropriate state.</li> <li>g. Pepert spills of toxic hazardous substance or oil in an amount equal to or in excess of a reportable quality established under either 40 CFR Part 10, 40 CFR Part 117, or eportable quality the fragmeer as scon as the Contractor has knowledge of the discharge. The Engineer as scon as the Contractor (NHC) at (800) 424-8802, the Clean Water either doing report at (808) 424-8802, the Clean Water either doing report at (808) 424-8802, the Clean Water either anotacturer.</li> <li>g. disposal of materials onsite.</li> <li>ont resealable.</li> </ul>	nital tor Se, of the			
and cleanup, Post the names of responsible spill personnel in the material storage area on a weather proof bulletin board or other accessible location acceptable to the Engineer and in the office traiter ensite.         accessible       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.         asticides       d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.         action of the spills or other accidental runoff. Make an effort to store       e. Cleanup all spills immediately after discovery.         anner in their appropriate server.       government agency, regardless of the size. Where a loak, spill, or other release anner in their appropriate         anner in their appropriate server.       e. Cleanup all spills of texic hazardous material to the appropriate State or tecal government agency, regardless of the size. Where a loak, spill, or other release anner in their appropriate         anner in their appropriate serve.       e. Cleanup all spills of texic hazardous material to the ontractor shall notify the government agency, regardless of the size. Where a loak, spill, or other release anner in their appropriate         anner in their appropriate       frequentity established under either 40 CFR Part 107, or CFR Part 107, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Figineer as seen as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8902, the Clean Water Branch during regular business hours at (808) 586-4309, and the Hawaii State Hosp operator at (808) 2	nital tor			
<ul> <li>and cleanup, Post the names of responsible spill personnel in the material storage area on a weatherproof buildin board or other accessible location acceptable to the Engineer and in the office trailer onsite.</li> <li>c. Clearly post manufacturers' rocommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.</li> <li>d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.</li> <li>e. Clean up all spills immediately after discovery.</li> <li>f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.</li> <li>g. Report is pills of loxic hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 10, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as scon as the Contractor has knowledge of the discharge. The Engineer as scon as the Contractor (NRC) at (800) 424 8802, the Clean Waler all spills the during regular business hours al (808) 566-4309, and the Hawaii State Hosp</li> </ul>				
<ul> <li>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,</li> <li>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.</li> <li>d. Keep ample materials and equipment necessary for spill cleanup in the material storage area cnsite.</li> <li>e. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.</li> <li>d. Keep ample materials and equipment necessary for spill cleanup in the material storage area cnsite.</li> <li>e. Clean up all spills immediately after discovery.</li> <li>f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to provent injury from contact with a hazardous substance.</li> <li>c of spills or other accidental runoff. Make an effort to store anner in their appropriate store anner in their approp</li></ul>				
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not listed below shall be added 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				
least three site personnel who shall receive spill prevention and cleanup training. Rected to be present onsite These individuals shall each become responsible for a particular phase of prevention				
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				
n Activities, complete initial practicable from storm drain inlets or State waters. Do not discharge water in the c system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.	Irainage			
' may be found in the SWPPP. Washout or discharge concrete truck drum wash water only at a designated site as				
complete initial stabilization				
14 calendar days after the Seal and store all containers when not required for use. Do not discharge excess pa ctivities. For construction areas to the drainage system, sanitary sewer system, or State waters. Dispose properly acc				
ng into waters not impaired for c. Paints:	pint			
ructures will not resume (i.e., the to avoid spills. days, but such activities will				
ures has been completed. Earth- ring, grading, and excavation within Transfer the contents of any partially used bags of fertilizer to a sealable plastic b	nin			
xcavation within any area of the to storm conveyance channels with flowing water. Storage shall be in a covered shed	or in			
ctivities, immediately initiate Apply at the appropriate time of year for the location, and preferably timed to coincid disturbing activities for areas as closely as possible to the period of maximum vegetation uptake and growth. Once mporarily ceased. Earth-disturbing applied, work fertilizer into the soil to limit exposure to storm water. Do not apply	Je			
Apply fertilizers used only in the minimum amounts recommended by the manufacture federal, state, and local requirements. Avoid applying just before a heavy rain event.				
cutting of pavement in discharge into the drainage b. Fertilizers:	· ·	I		
<u>OTES (Cont.):</u>	DIST. NO.	на <b>w</b> . 56А-01-23М	YEAR           1         2023         4	NO. SHE
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in tightly sealed containers which te according to the manufacturer's

<u>WATER POLLUTION ∉ ERUSION CONTROL NOTES</u> Kuhio Highway Pavement Markings  $\widehat{}$ Kamoa Road to Vicinity of Waikaea Bridge <u> Project No. 56A-01-23M</u> Date: Jan. 2023 SHEET No. 2 OF 3 SHEETS

ADD.5

WAT	ER POLLUTION AND EROSION CONTROL NOT
E	. PERMIT REQUIREMENTS:
1.	There are no land disturbance area for this project based plans not including Contractor Staging and Storage areas. I disturbed area and the Contractor Staging and Storage are the Contractor shall obtain the NPDES Construction Activitie SWPPP template. See Hawaii Administrative Rules Chapter is definition of land disturbance. The Contractor shall be resp required NPDES Construction Activities Permit and complyin HAR 11-55 including, but not limited to:
	a. Deadlines for initiating and completing initial stabilization b. Increased inspection frequency and installation of rain g 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 conditi but not limited to the following:
	a. NPDES Permit for Construction Activities
	b. NPDES Permit for Construction Dewatering
	c. NPDES Permit for Hydrotesting Waters
	d. Water Quality Certification
	e. Stream Channel Alteration Permit
	f. Section 404 Army Corps of Engineer Permit

<b>DATE</b>	••••
SURVEY PLOTTED BY DRAWN BY $\underline{X}$	TRACED BY
ORIGINAL PLAN	NOTE BOOK kel.bernie Na. wpec03.dgn

DTES (Cont.):

ed on the construction s. If the total of the area is one acre or greater, wities Permit using HDOT's latest or 11-55, Appendix C for the esponsible for obtaining the lying with the requirements of

tion n gage if applicable

ditions. Permits may include,

F. SITE-SPECIFIC BMP REQUIREMENTS:

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

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

Follow the requirements below:

- 1. Protect all Drainage Inlets receiving runoff from
- 2. Contain on-site runoff using Perimeter Sediment
  - 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 Manage
- g. SM-10 Spill Prevention and Control
- h. SM-11 Vehicle and Equipment Cleaning
- i. SM-12 Vehicle and Equipment Maintenance
- j. SM-13 Vehicle and Equipment Refueling
- k. SM-14 Scheduling
- I. SM-15 Location of Potential Sources of Sedim
- 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 Si which exit onto a paved street. Restrict vehicle a
- 6. Manage Concrete Waste including installing a Con Curing Water (California Stormwater BMP Handbo
- 7. Remove saw cut slurry and hydrodemolition water and/or perimeter sediment controls during saw c

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	FED. ROAD	07.175		FISCAL	SHEET	TOTAL
	DIST. NO. HAWAII	STATE HAW.	PROJ. NO. 56A-01-23M	<b>YEAR</b> 2023	NO.	SHEETS 10
section of the current HDOT Construct I Sheets. The Manual may be obtained at http://www.stormwaterhawaii.com/r nt Practices Field Manual. Supplementa tors-and-consultants/storm-water-pollu	from th esource al BMP	e HDC s/con sheets	)T tractors- s are located			
sion Control submittals are included in ridge Construction dated 2005 and app nding BMP used to mitigate the polluta ndix A.	plicable	Specia	7/			
disturbed areas (SC-1).						
Controls						
area						
ement						
nent						
g/Storage Area BMP with applicable F tabilized Construction Entrance/Exit ( access to these points.						
ncrete Washout Area (SM-4) and proper bok NS-12 Concrete Curing).	ly dispo	osing (	of Concrete			
r from the site by vacuuming. Provide cutting and hydrodemolition work.	e storm	drain	protection			
	1/26/22	2 / -	Revise title of	f the pr	oject	
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		DEPAR	TMENT OF TRA HIGHWAYS DIV	NSPORT	ATION	
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$\widehat{1}$		Road	HWAY PAVEI to Vicinity o bject No. 56A	f Waika	aea Bri	
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