

WATER POLLUTION AND EROSION CONTROL NOTES:

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	BR-030-1 (37)	2024	6	42

A. GENERAL:

- See Special Provisions Section 209 - Water Pollution and Erosion Control. 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. In addition, Appendix A lists potential pollutant sources and corresponding BMPs used to mitigate the pollutants.
- Follow the guidelines in the current HDOT Construction Best Management Practices Field Manual in developing, installing and maintaining the best management practices (BMP) for the project. For any conflicting requirements between the manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under Note A2, "applicable bid documents" include the construction plans, standard specifications, special provisions, permits, and the Storm Water Pollution Prevention Plan (SWPPP) when applicable.
- Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable soil erosion guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
- 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 and special provisions, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- 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.
- If necessary, install a rain guage prior to any field work. Including the installation of any site-specific best management practices. The rain guage shall have a tolerance of at least 0.05 inches of rainfall. Install the rain guage on the project site in an area that will not deter rainfall from entering the gauge opening. Do not install in a location where rain water may splash into rain guage. The rain guage installation shall be stable and plumbed. Do not begin field work until the rain guage is installed and site-specific best management practices are in-place.
- Submit site-specific BMP plan to the Engineer along with a completed site-specific BMP review checklist within 21 calendar days of date of award. The site-specific BMP review checklist may be obtained from <http://www.stormwaterhawaii.com>. Site-Specific BMP Plan shall include placing a sandbag barrier downstream of existing Honolua Stream for temporary sediment control (refer to SC-13 in the Construction Best Management Practices Field Manual).
- The Contractor shall consider and install BMP measures which take into account high intensity and prolonged rainfall, and to address the potential problems that may result.
- All areas used in support of construction activities disturbed or damaged by the Contractor, including but not limited to, staging areas, construction entrance/exist, and travel routes, shall be temporarily stabilized during construction in accordance with Section 209 of the 2005 Standard Specifications for Road and Bridge Construction. These areas shall be restored to their original condition or better upon completion of construction. Disturbed and exposed areas shall be permanently stabilized using vegetative cover, pavement, or equivalent to match pre-existing or better condition as approved by the State.
- Final stabilization and restoration of disturbed or damaged areas shall begin immediately as soon as construction is completed and the construction support areas are no longer used.
- The State reserves the right to determine the appropriateness and adequacy of proposed and/or implemented BMPs. Additional BMP measures required by the State shall not be paid for by the State.
- The Contractor shall be responsible for all damages and/or injuries resulting from the BMPs.
- The Contractor shall be responsible for any citations or fines that may be levied as related to the NPDES program on this permit, whether directly levied against the Contractor or the Department of Transportation.

B. WASTE DISPOSAL:

- Waste Materials:  
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, State, and Federal 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 date of award. 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 intermediary facility where solid waste is handled or processed.
- Hazardous Waste  
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 seeing that these practices are followed.
- Sanitary Waste:  
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.

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 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.
- For projects without an NPDES permit for construction activities, inspect all control measures weekly.
- 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.
- 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.
- 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.
- Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- Complete and submit to the engineer a maintenance inspection report within 24 hours after each inspection.

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NOTE BOOK	QUANTITIES BY	
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*Kyle Shinyama* APRIL 30, 2026  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WATER POLLUTION AND  
EROSION CONTROL NOTES - 1

Honoapiʻilani Highway  
Rehabilitation of Honolua Bridge  
F.A.P. No. BR-030-1(37)

Scale: As Shown Date: August 2024

SHEET No. C1.05 OF 42 SHEETS

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES (CONT.):

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 designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
11. 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.
12. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Do not allow discharge into the drainage system or State waters.
13. For projects with an NPDES Permit for Construction Activities, immediately initiate stabilizing exposed soil areas upon 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 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. For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities. Classification of water at the 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	Cleaning solvents
Detergents	Wood
Paints (enamel and latex)	Masonry block
Metal studs	Herbicides and pesticides
Tar	Curing compounds
Fertilizers	Adhesives
Petroleum based products	

- b. Use material management practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.
- c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a 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.
- f. Whenever possible, use a product up completely before disposing of the container.
- g. Follow manufacturer's recommendations for proper use and disposal.
- h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

- 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 regulations.

3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

- a. Petroleum Based Products:  
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.
- 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 storm water. 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.

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WATER POLLUTION AND  
EROSION CONTROL NOTES - 2

Honoapiʻilani Highway  
Rehabilitation of Honolua Bridge  
F.A.P. No. BR-030-1(37)

Scale: As Shown Date: August 2024

SHEET No. C1.06 OF 42 SHEETS



DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES (CONT.):

- 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. 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 occur during 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of discharge. Note that the reportable quantity for oil and fuel products is a spill of 25 gallons or more, a spill not cleaned within 72 hours, or a spill that threatens ground or surface waters. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hour at 586-4309, the Clean Water Branch (DOH-CWB) via email at [cleanwaterbranch@doh.hawaii.gov](mailto:cleanwaterbranch@doh.hawaii.gov) during non-business hours, the DOH Hazard Evaluation and Emergency Response Office at (808) 586-4249, the Coast Guard Maui Station at (808) 986-0023 and the local Emergency Planning Committee at (808) 720-7285. The Contractor shall also provide to the Engineer, within 1 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

E. PERMIT REQUIREMENTS:

- 1. The calculated land disturbance area for this project based on the construction plans is 0.82 acres including Contractor Staging and Storage areas. If the total of the disturbed area and the Contractor Staging and Storage area is one acre or greater, the contractor shall obtain the NPDES construction activities permit using HDOT's latest SWPPP template. See Hawaii Administrative Rules Chapter 11-55, appendix C for the definition of land disturbance. The contractor shall be responsible for obtaining the required NPDES Construction Activities Permit and 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. Permits may include, but not limited to the following:
  - a. NPDES Permit for Construction Activities (N/A)
  - b. NPDES Permit for Construction Dewatering (N/A)
  - c. NPDES Permit for Hydrotesting Waters (N/A)
  - d. Water Quality Certification (N/A)
  - e. Stream Channel Alteration Permit (N/A)
  - f. Section 404 Army Corps of Engineer Permit (N/A)

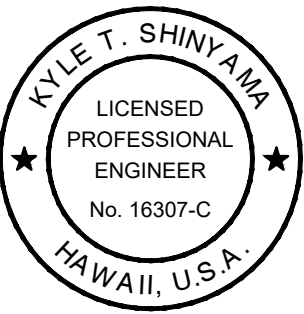
F. SITE-SPECIFIC BMP REQUIREMENTS:

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/contractors-and-consultants/> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <http://stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/> 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-1).
- 2. Contain on-site runoff using perimeter sediment controls
  - 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 area
  - a. EC-3 Run-on Diversion
  - b. EC-5 Earth Dikes, Swales and Ditches
- 4. Incorporate applicable Site Management BMP
  - a. SM-1 Construction BMP Training
  - b. SM-2 Material Storage and Handling
  - c. SM-3 Stockpile Management
  - d. SM-4 Concrete Wash and Waste Management
  - e. SM-5 Asphalt Cement Waste Management
  - f. SM-6 Solid Waste Management
  - g. SM-7 Sanitary Waste Management
  - h. SM-9 Hazardous Materials and Waste Management
  - i. SM-10 Spill Prevention and Control
  - j. SM-11 Vehicle and Equipment Cleaning
  - k. SM-12 Vehicle and Equipment Maintenance
  - l. SM-13 Vehicle and Equipment Refueling
  - m. SM-14 Scheduling
  - n. SM-15 Location of Potential Sources of Sediment
  - o. SM-16 Staging Area
  - p. SM-17 Preservation of Existing Vegetation
  - q. SM-18 Dewatering Operations
  - r. SM-19 Dust Control
  - s. SM-20 Paving Operations
- 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 (SC-11) for all areas which exit onto a paved street. Restrict vehicle access to these points.
- 6. Manage concrete waste including installing a Concrete Washout Area (SM-4) and properly disposing of concrete curing water (California Stormwater BMP Handbook NS-12 Concrete Curing)
- 7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

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Kyle Shinyama

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

WATER POLLUTION AND  
EROSION CONTROL NOTES - 3

Honoapiʻilani Highway  
Rehabilitation of Honolua Bridge  
F.A.P. No. BR-030-1(37)

Scale: As Shown      Date: August 2024

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EROSION CONTROL/ BEST MANAGEMENT PRACTICE NOTES:

- The contractor, at his own expense, shall keep the project areas and surround areas free from dust nuisance. The work shall be done in conformance with air pollution control standards contained in Hawaii Administrative Rules: Chapter 11-60, "Air Pollution Control".*
- Measures to control erosion and other pollutants shall be in place before any grading work is initiated. These measures shall be properly constructed and maintained throughout the construction period of each site.*
- Construction shall be sequenced to avoid disturbance at all project site at one time and minimize exposure time of the demolition and reconstruction areas.*
- The Contractor shall observe and comply with the State Department of Health regulations regarding storm water discharge.*
- Inlet protection shall be implemented at all storm drain inlets and catch basin as indicated to prevent any sediment laden runoff from leaving the site. Inlet protection devices shall be removed during any event where flooding could occur if devices remain in place and replaced after the event has passed.*
- Good Housekeeping shall be utilized to ensure protection of roadway from mud, dirt, and debris.*
- The Contractor Shall provide erosion control measures for their construction, staging, and storage areas and shall inspect and monitor his construction, staging, and storage areas to ensure that non-storm water discharges are emitted. If such sources are identified the Contractor shall provide immediate mitigative measures.*
- No sediment laden runoff shall leave the site.*
- Water trucks shall be utilized to minimize the amount of airborne dust.*
- Contractor shall ensure the proper working order and conduct regular maintenance of all construction equipment. All construction equipment shall be serviced off-site, and no oil or fuel shall be stored on the site.*
- The contractor shall dispose of equipment and hydraulic oils off-site and in accordance with County, State, and Federal regulations.*
- At the end of construction, existing catch basins and drain inlets surrounding the project site shall be inspected and any accumulated sediment and debris found shall be remove. Flushing into the catch basins or drain inlets is prohibited.*
- Construction shall be staged and phased for large projects. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporary or permanent protecting the disturbed soil surface from rainfall impact and runoff.*
- Storm water flowing toward the construction area shall be diverted by using appropriate control measures, as practical.*
- water must be discharged in a manner that the discharge shall not cause or contribute to a violation of the basic water quality criteria as specified in the Hawaii Administrative Rules, Section 11-54-04.*
- All grading work shall conform to Maui County Code chapter 20.08 "Soil Erosion and Sediment Control", as amended and applicable provisions of chapter 54, Water Quality Standards and chapter 55, Water Pollution Control, Title II, Administrative Rules of the State Department of Health.*

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**WATER POLLUTION AND  
EROSION CONTROL NOTES - 4**

*Honoapiʻilani Highway  
Rehabilitation of Honolua Bridge  
F.A.P No. BR-030-1(37)*

Scale: As Shown      Date: August 2024

SHEET No. *C1.08* OF *42* SHEETS