Storm Water Pollution Prevention Plan (SWPPP)

[Notice of General Permit CoverageFile No. HI [XXXXXXX]
Preparation Date 5/14/18

Table of Contents

7.0 Preface

The following documents are referenced throughout this document:

1) Hawaii Administrative Rules (HAR), Chapter 11-55

2) HDOT Construction Best Management Practices (BMP) Field Manual

3) Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions.

4) City & County of Honolulu, Rules Relating to Soil Erosion Standards & Guidelines

Please note that the Sections referenced are Sections in the HAR Chapter 11-55, Appendix C, NPDES General Permit Authorizing Discharges of Storm Water Associated with Construction Activity, unless stated otherwise.

7.0.1 Notes for Contractor/HDOT Construction Personnel

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- Items in red need to be updated by the Contractor once the project is awarded prior to construction. The Contractor shall be responsible for updating the SWPPP during construction.

- Items in blue should be done by the designer. Remove this note and blue text when preparing the SWPPP.*}*

CONTRACTOR STAGING/STORAGE AREAS

- HDOT has permitted all outfalls and disturbed potential Contractor Staging/Storage Areas within the project limits. They are identified in the Project's Notice of Intent (NOI).
- The Contractor may use any disturbed area that is permitted and that is acceptable to the Engineer for their Staging/Storage.
- Staging/Storage Areas outside disturbed areas or outside the project limits WILL require a new National Pollutant Discharge Elimination System (NPDES) submittal. If the Staging/Storage Area is outside of the disturbed area or outside of the project limits, inform HDOT.
- *See permitting requirements in Section 209 Temporary Water Pollution, Dust, and Erosion Control of the Special Provisions.*

Outfalls 1, 2, 3, 4, 5, 6, and 7 discharge to nutrient or sediment impaired waters. *The following applies to construction areas discharging to these outfalls:*

1) *Construction BMPs shall be inspected weekly, and within 24 hours of any rainfall event of **0.25 inches** or greater in a 24 hour period and daily during periods of prolonged rainfall. For more details, see Section 7.2.12 of this SWPPP.*
2) *Immediately initiate and complete stabilization within 7 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased. For more details, see Section 7.2.10.2 of this SWPPP.*

7.2.1 Storm Water Team

The permittee shall assemble and oversee a "storm water team," which is responsible for the development of the SWPPP, any later modifications to it, and for compliance with the requirements in the Notice of General Permit Coverage (NGPC) or Individual NPDES permit.

The SWPPP must identify the personnel (by name or position) that are part of the storm water team, as well as their individual responsibilities. Each member of the storm water team must have ready access to an electronic or paper copy of applicable portions of the permit, the most updated copy of this SWPPP, and other relevant documents or information that must be kept with this SWPPP.

{The Contractor shall include their personnel information once the project is awarded.}

1) Name: Keith Miyashiro

Company: *Hawaii Department of Transportation*

Position: *HDOT Project Manager*

Contact Number: *(808) 483-7290*

Responsibilities: **Developed the Notice of Intent (NOI) and SWPPP during the design process**

2) Name:

Company: **Hawaii Department of Transportation**

Position: **HDOT Resident Engineer**

Contact Number: **(808) xxx-xxxx**

Responsibilities: **Authorized Representative's delegated signatory for BMP Inspection, Corrective Action and Discharge Reports.**

3) Name:

Company: **Hawaii Department of Transportation**

Position: **HDOT Construction Project Engineer**

Contact Number: **(808) xxx-xxxx**

Responsibilities: **Responsible for overall project and field compliance with HAR Chapter 11-55 and permit conditions, including SWPPP and any required modifications to SWPPP**

4) Name:

Company: **Hawaii Department of Transportation**

Position: **HDOT Supervising Inspector**

Contact Number: **(808) xxx-xxxx**

Responsibilities: **Responsible for BMP inspections and verifying implementation of BMPs in the field**

5) Name:

Company: **Contractor**

Position: **(FILL IN Contractor Designated Representative)**

Contact Number: **(808) xxx-xxxx**

Responsibilities: **Responsible for overall project and field compliance and BMP inspections**

6) Name:

Company: **Contractor**

Position: **(FILL IN Contractor Designated Representative)**

Contact Number: **(808) xxx-xxxx**

Responsibilities: **Responsible to develop and maintain updates and modifications of to the SWPPP**

7) Name:

Company: **Contractor**

Position: **Contractor**

Contact Number: **(808) xxx-xxxx**

Responsibilities:

8) Name:

Company: **Contractor**

Position: **Contractor**

Contact Number: **(808) xxx-xxxx**

Responsibilities:

7.2.2 Nature of Construction Activities Form C.6

What is the function of the construction activity (Please check all applicable activity(ies))?

☐ Residential ☐ Commercial ☐ Industrial ☐ Road Construction ☐ Linear Utility

☑ Other (please specify): Erosion Control/Slope Maintenance

For construction site estimates, see **NOI Form C, Section C.3 – Construction Site Estimates, Attachment A-4**

What is being constructed? **This project proposes the construction of various permanent erosion control measures.**

Describe the scope of work and major construction activities covered in the NOI, including baseyards and staging areas. Include only project areas where the locations of impervious

structures are known; project areas where the final grades are known; and work areas that will be performed by one (1) general contractor. A separate NOI will be required for all other project areas.

(Note: Per Section 209 of the Specifications and applicable Special Provisions, the maximum surface area of earth material which may be exposed at any time is 300,000 square feet.)

The scope of this project includes the following types of activities along state roadways: grubbing in areas that require minimal site preparation; clearing debris and vegetation; grading and compaction along eroded slope embankments; installation of grouted riprap; installation of erosion control matting or plantings; installation hydro mulch; landscape planting; reconstruction of a concrete outfall; installation and maintenance of temporary erosion control BMPs; installation of permanent BMPs; and implementation of traffic control. Installation of the proposed permanent BMP measures will mitigate the risk of erosion hazards that may otherwise occur.

Slope stabilization at Sites PID 408, 502 and 521 includes grubbing and the use of high performance mulch that is hydraulically sprayed onto the soil surface. Work associated with the installation of high performance mulch requires minimal site preparation. The mulch increases plant establishment, which will minimize soil loss and erosion during storm events.

The installation of erosion control matting with earth anchors/pins and the planting of vegetation is proposed for Sites PID 149 to stabilize the soils and reduce erosion during storm events. Work associated with the matting system includes clearing the vegetation, grading the slope, unrolling and anchoring the matting and preparing the area to promote vegetation growth. Shaving the slope will flatten the vertical face at Site PID 149. In addition to erosion control matting, the use of high performance mulch or the planting of native species is proposed for Site PID 149.

Slope stabilization at Sites PID 89 and 92 involves the use of grouted riprap, which is an economical alternative to concrete paving and an ideal solution for roadside slopes. Work associated with the installation of grouted riprap includes clearing debris and vegetation, grading and compacting the slope, installing rock slope protection, and grouting the interstices.

Stabilization to address erosion at Site PID 304806 involves a previously constructed grouted riprap drainage channel located within the highway right-of-way. Work associated with this project will include clearing and grubbing adjacent ground, filling voids behind the drainage channel walls with epoxy grout, and reconstructing the grouted riprap outfall.

Erosion control at Site PID 467 involves a previously constructed drainage structure with a drainage inlet located within the highway right-of-way. Work associated with this project will include demolition of portions of an existing concrete swale, headwall, concrete curb and gutter; paving an existing gravel area and reconstructing the current inlet area (which entails

excavating the existing ditch in order to install a Debris-Separating baffle box; drain inlet and concrete curb and gutter). The baffle box will be used to capture sediment erosion and trash through a hydrodynamic separator system consisting of multiple sediment removal chambers. The project will also include installation of a drain inlet filter basket, reinforced concrete pipe, and a catch basin.

Construction activities include slope surface preparation, clearing of vegetation, planting and installation of erosion control matting for permanent erosion control purposes. These measures will be implemented at areas along existing State roadways that exhibit significant erosion. Work associated with planting includes clearing of debris and vegetation, soil preparation, hydro-mulch seeding, planting, installation of geotextile fabric, maintenance of vegetation during the establishment period and installation of temporary erosion control measures for construction.

{The locations of the staging and storage areas may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer the locations of his staging and storage areas once the project is awarded for review and acceptance}.

7.2.3 Emergency Related Projects

Check as applicable:

☑ Not Applicable

☐ Applicable *(If this box is checked, provide additional information as described below)*

If conducting earth-disturbing activities in response to a public emergency (see Section 1.3.), the permittee shall document the cause of the public emergency (e.g., natural disaster, extreme flooding conditions, etc.), information substantiating its occurrence (e.g., state disaster declaration or similar state declaration), and a description of the construction necessary to reestablish effected public services. *The declaration of emergency or imminent threat to public health is required to be from the state governor or the director.* See Attachment J for additional information.

7.2.4 Identification of Prime Contractor and Other Site Contractors

Here is a list of both the prime contractor and all other contractors (e.g., sub-contractors) who will be engaged in construction activities at the site, and the areas of the site over which each contractor has control. *{List prime contractor and sub-contractors below and attach map showing areas of control in Attachment A. Complete and attach a Signed Subcontractor Certification/Agreement in Attachment D.}*

General Contractor Company Name: The general contractor information will be submitted at least 30 calendar days before the start of construction activities.	
General Contractor Contact Person Name:	
General Contractor Mailing Address:	
General Contractor Mailing City:	*Mailing State and Zip Code:*
General Contractor Telephone Number: **(808)**	
General Contractor Email Address:	

Sub-Contractor #1 Company Name: **[ADD SUB-CONTRACTOR INFO]**	
Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #2 Company Name:	
Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #3 Company Name, as needed:

Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #4 Company Name:	
Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #5 Company Name:	
Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #6 Company Name:	
Sub-Contractor Contact Person Name:	
Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
Sub-Contractor Telephone Number: **(808)**	
Sub-Contractor Email Address:	

Sub-Contractor #7 Company Name:
Sub-Contractor Contact Person Name:

Sub-Contractor Mailing Address:	
Sub-Contractor Mailing City:	*Sub-Contractor Mailing State and Zip Code:*
(Sub-Contractor Telephone Number) **(808)**	
(Sub-Contractor Email Address)	

Complete the following items and include them in the Attachments:

- ❑ Attach maps showing areas of Contractor/Subcontractor Control in Attachment A.
- ❑ Complete and attach a Subcontractor Certification/Agreement in Attachment D.

7.2.5 Sequence and Estimated Dates of Construction Activities

❑ Attach the proposed construction schedule in Attachment C, which shall include, at a minimum:

{The Contractor shall submit to the Engineer an update of the dates in the SWPPP once the project is awarded.}

✓ *Installation of storm water control measures, and when they will be made operational, including an explanation of how the sequence and schedule for installation of storm water control measures complies with Section 5.1.1.3.1. and of any departures from manufacturer specifications pursuant to Section 5.1.1.3.2., including removal procedures of the storm water control measures after construction has ceased.*

✓ *Commencement and duration of earth-disturbing activities, including clearing and grubbing, mass grading, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization.*

✓ *Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of the site.*

✓ *Final or temporary stabilization of areas of exposed soil. The dates for stabilization must reflect the applicable deadlines to which the permittee is subject to in Section 5.2.1.*

✓ *Removal of temporary storm water conveyances/channels and other storm water control measures, removal of construction equipment and vehicles, and cessation of any pollutant-generating activities.*

7.2.6.1 Property Boundary Maps

Complete the following and include in Attachment A:

☑ Include Property Boundary Maps showing the boundaries of the property and of the locations where construction activities will occur. Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

a. Legal boundaries of the project. **See SWPPP Attachment A-2**

b. Locations where earth-disturbing activities will occur, noting any sequencing of construction activities. **See SWPPP Attachment A-2**

c. Pre-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Note areas of steep slopes (15% or greater in grade). **See SWPPP Attachment A-3**

d. During-Construction Topography (after major grading activities) including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows) Note areas of steep slopes (15% or greater in grade). **See SWPPP Attachment A-3**

e. Post-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Note areas of steep slopes (15% or greater in grade). *Proposed construction activities will not alter the site drainage patterns,* **See SWPPP Attachment A-3**

f. Locations where sediment, soil, or other construction materials will be stockpiled *7.2.6.1c.* **See SWPPP Attachment A-3.** *Stockpile locations may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer for his review and acceptance the locations of stockpiles once the project is awarded and will be included in the SWPPP. The Contractor shall submit to the Engineer*

for his review and acceptance any updates/changes to stockpile areas during construction for inclusion in the SWPPP.

g. Locations of any contaminated soil or contaminated soil stockpiles *7.2.6.1d.* **No areas of contaminated soil are expected to be encountered in the area. If any areas are encountered, the locations will be included in the SWPPP.**

h. *Locations of any crossings of state waters 7.2.6.1e.* **See SWPPP Attachment A-2**

i. *Designated points on the site where vehicles will exit onto paved roads 7.2.6.1f.* **See SWPPP Attachment A-??3.** *Stabilized entrance locations may be changed by the Contractor depending on his construction means and methods. {The Contractor shall submit to the Engineer the locations of stabilized entrances once the project is awarded for his review and acceptance and will be included in the SWPPP.} The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to stabilized entrances during construction for inclusion in the SWPPP.*

j. Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed *7.2.6.1g.* **No impervious structures are proposed on this project.**

k. Locations of construction support activity areas covered by this permit *7.2.6.1h.* **See SWPPP Attachment A-2?**. *The locations of the staging and storage areas may be changed by the Contractor depending on his construction means and methods. {The Contractor shall submit to the Engineer the locations of his staging and storage areas for his review and acceptance once the project is awarded.} The Contractor shall submit to the Engineer any updates/changes to staging and storage areas during construction for his review and acceptance and inclusion in the SWPPP.*

7.2.6.2 to 7.2.6.8 State Waters and BMP Maps

Complete the following items:

☑ Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

☑ Reference which maps account for the features listed below.

a. Locations of all state waters, including wetlands that exist within or in the immediate vicinity of the site and indicate which waterbodies are listed as impaired *7.2.6.2.* **See SWPPP Attachment A-2**

b. The boundary lines of any natural buffers provided consistent with *Section 5.1.2.1.1, 7.2.6.3.* **All earth disturbances are located farther than 50 feet from any state waters and will have installed sediment control measures.**

c. Topography of the site, existing vegetative cover (e.g., forest, pasture, pavement, structures), and drainage pattern(s) of storm water onto, over, and from the site property before and after major grading activities *7.2.6.4.* **See SWPPP Attachment A-3**

d. Storm water discharge locations, including: a) Locations of any storm drain inlets on the site and in the immediate vicinity of the site to receive storm water runoff from the project; **See SWPPP Attachment A-2**
and b) Locations where storm water will be discharged to state waters (including wetlands) *7.2.6.5.* **See SWPPP Attachment A-2**

e. Locations of all potential pollutant-generating activities identified in *Section 7.2.7, 7.2.6.6.* **See SWPPP Attachment A-2**

f. Locations of storm water control measures *7.2.6.7.* **See SWPPP Attachment A-3.** *The Contractor may change the locations of storm water control measures by construction activity and construction sequence depending on his construction means and methods. The Contractor shall submit changes to the Engineer for his review and acceptance once the project is awarded. The Contractor shall submit a separate map for each phase of construction which changes the drainage pattern. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to storm water control measures during construction for inclusion in the SWPPP.*

g. Locations where chemicals will be used and stored 7.2.6.8. **No chemicals will be stored onsite, chemicals will be used anywhere landscaping will occur. See Attachment A-2 for locations.** *The locations where chemicals may be used and stored may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit*

to the Engineer for his review and acceptance any updates/changes to locations where chemicals will be used and stored during construction for inclusion in the SWPPP.

Chemical	**Location**	**Major Construction Activity**
Hydraulic oils/ fluids	• Vehicle Refueling area • Leaks from broken hoses on equipment • Vehicles shall be maintained off site. If a maintenance area is necessary on-site, the Contractor shall submit to the Engineer the locations and BMPs for his review and acceptance for inclusion in the SWPPP.	Clearing and Grubbing, Installation of Permanent BMPs, and Landscaping
Antifreeze/Coolants *** Applicable As Noted**	• Vehicle Refueling area • Leaks from broken hoses on equipment • Vehicles shall be maintained off site. If a maintenance area is necessary on-site, the Contractor shall submit to the Engineer the locations and BMPs for his review and acceptance for inclusion in the SWPPP.	Clearing and Grubbing, Installation of Permanent BMPs, and Landscaping
Glue, Adhesives *** Not Applicable**	• Roadway construction- no roadway construction will be done for this project	
Concrete Curing Compounds/ Form Release Oils	• Roadway construction involving concrete	Installation of curbs and gutters
Pesticides	• Landscaping areas	Landscaping
Herbicides	• Landscaping areas	Landscaping
Insecticides	• Landscaping areas	Landscaping
Fertilizers	• Landscaping areas	Landscaping

7.2.7 Construction Site Pollutants

For each pollutant-generating activity, an inventory of pollutants or pollutant constituents (e.g., sediment, fertilizers and/or pesticides, paints, solvents, fuels) associated with that activity, which could be exposed to rainfall and could be discharged from the construction site. Take into account where potential spills and leaks could occur that contribute pollutants to storm water discharges. Document for the Engineer's review and acceptance any departures from the manufacturer's specifications for applying fertilizers containing nitrogen and phosphorus, as required in Section 5.3.5.1 under Attachment J.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If not, contact the SHWB-SWS at (808) 586-4226 as additional permits may be required.

Source/Material	***Description of How Potential Pollutant Source will be Prevented from Discharging with Storm Water Runoff***	***Major Construction Activity***
Construction debris, green waste, general litter	• *See Section 7.2.10 for Site Specific BMPs*	*Clearing and Grubbing, Installation of Permanent BMPs, and Landscaping*
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	• *See Section 7.2.10 for Site Specific BMPs*	*Clearing and Grubbing, Installation of Permanent BMPs, and Landscaping*
Soil erosion from the disturbed areas	• *See Section 7.2.10 for Site Specific BMPs*	*Clearing and Grubbing, Installation of Permanent BMPs, and Landscaping*

Sediment from soil stockpiles **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no excavation will be performed for this project*	
Emulsified asphalt or prime/tack coat	• *See Section 7.2.10 for Site Specific BMPs*	Pavement Installation
Materials associated with painting, such as paint and paint wash solvent **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no painting will be done for this project*	
Industrial chemicals, fertilizers, and/or pesticides	• *See Section 7.2.10 for Site Specific BMPs*	*Landscaping*
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.) **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- project does not involve hazardous waste*	
Metals and Building Materials *** Not Applicable**	• *See Section 7.2.10 for Site Specific BMPs- project does not involve the use of metal and building materials*	
Existing Pollution Sources **** Not Applicable*** *(If no indication, then Applicable)*	• *See Section 7.2.10 for Site Specific BMPs*	*Demolition and Construction, Landscaping*
Other (Contaminated Soil) *** Not Applicable**	• *See Section 7.2.10 for Site Specific BMPs- site does not contain any contaminated soils*	

7.2.8 –Sources of Non-Storm Water

Identify all sources of non-storm water and information, including, but not limited to, the design, installation, and maintenance of the control measures to prevent its discharge.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If not, the Contractor shall contact the SHWB-SWS at (808) 586-4226 and notify the Engineer for his agreement the disposal locations. Additional permits may be required.

Source	***Description of How Potential Non-Storm Water Pollution Source will not be Discharged to State Waters***	***Major Construction Activity***
Dust Control Water	• *See Section 7.2.10 for Site Specific BMPs*	*Construction, Landscaping*
Concrete Truck Wash Water	• *See Section 7.2.10 for Site Specific BMPs*	*Construction*
Sediment Track Out	• *See Section 7.2.10 for Site Specific BMPs*	*Construction,and Landscaping*
Irrigation Water	• *See Section 7.2.10 for Site Specific BMPs*	*Landscaping*
Hydrotesting Effluent **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no hydrotesting will be done for this project*	

Source	***Description of How Potential Non-Storm Water Pollution Source will not be Discharged to State Waters***	***Major Construction Activity***
Dewatering Effluent **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no dewatering will be done for this project*	
Saw-cutting Slurry **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no saw-cutting will be done for this project*	
Concrete Curing Water	• *See Section 7.2.10 for Site Specific BMPs*	*Construction*
Plaster Waste Water **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no plaster will be used for this project*	
Water-Jet Wash Water **** Not Applicable***	• *See Section 7.2.10 for Site Specific BMPs- no jet wash water will be used for this project*	
Sanitary/Septic Waste	• *See Section 7.2.10 for Site Specific BMPs*	*Construction and Landscaping*

7.2.9 –Buffer Documentation

If required to comply with Section 5.1.2.1. because a state water is located within 50 feet of the project's earth disturbances, describe which compliance alternative has been selected for the site, and comply with any additional requirements to provide documentation in Section 5.1.2.1.

Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas. *Use velocity dissipation devices if necessary to prevent erosion caused by storm water within the buffer. Ensure all discharges are first treated by erosion and sediment controls.*

Check, as applicable:

☐ Option 1

Provide and maintain a 50-foot undisturbed natural buffer and sediment control. Note: If the earth disturbances are located 50 feet or further from a state water and have installed sediment control, then the permittee has complied with this alternative. If the buffer is located outside State Highways Right of Way, include written permission from the owner of the land in SWPPP Attachment J.

*Width of Buffer*_____*feet*

☐ Option 2

Provide and maintain an undisturbed natural buffer that is less than 50 feet and double sediment control (e.g., double perimeter control) spaced a minimum of 5 feet apart.

*Width of Buffer*_____*feet*

☐ Option 3

If it is infeasible to provide and maintain an undisturbed natural buffer of any size, the permittee shall provide and maintain double sediment control (e.g., perimeter control) spaced a minimum of 5 feet apart and complete stabilization within 7 calendar days of the temporary or permanent cessation of earth-disturbing activities. Provide documentation why it is infeasible to provide buffer of any size in Attachment J.

☑ Exception 1

There is no discharge of storm water to state waters through the area between the site and any state waters located within 50 feet of the site, the permittee is not required to comply with the requirements in this section. This includes situations where control measures have been implemented, such as a berm or other barrier that will prevent such discharges.

☐ Exception 2

For "linear construction projects" where "linear construction projects" means the construction of roads, bridges, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area, the permittee is not required to comply with the requirements in this section if site constraints (e.g., limited right-of-way) prevent the permittee from meeting any of the compliance alternatives in Section 5.1.2.1.1., provided that, to the extent practicable, the permittee limit disturbances within 50 feet of state waters and/or the permittee provide erosion and sediment controls to treat storm water discharges from earth disturbances within 50 feet of the state water. The permittee shall also document below the rationale as to why it is infeasible to comply with the requirements in Section 5.1.2.1.1., and describe any buffer width retained and/or erosion and sediment controls installed below.

☐ Exception 3

The following disturbances within 50 feet of a state water are exempt from the requirements in this Part: construction approved under a Clean Water Act (CWA) 404 permit; or construction of a water-dependent structure or water access area (e.g., pier, boat ramp, trail).

Document below if any of the above disturbances will occur within the buffer area on the site:

+7.2.10 Storm Water Control Measures

Please refer to Hawaii Department of Transportation Construction Best Management Practices Field Manual dated January 2008 and Supplemental Sheets. 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 "applicable bid documents" include the construction plans, Standard Specifications, Special Provisions, Permits, and the SWPPP.

BMP Details

Complete the table below.

Note: Bolded text in the table are requirements of HAR Chapter 11-55. The Designer will provide an installation detail of all proposed BMPs (From HDOT Construction BMP Field Manual) identified in Section 7.2.6.7, including the proposed BMPs that will be used to mitigate the potential pollutants identified in Sections 7.2.7 and 7.2.8. Attach the details and design calculations, if applicable, in SWPPP Attachment A (7.2.10.1a). The Contractor shall include the project-specific product sheets (e.g. Tru-Dam or Gutter Buddy, etc.) and any changes to the proposed BMPs above for the Engineer's review and acceptance.

Check the appropriate boxes below verifying the following requirements are met. If not applicable, indicate on the blank lines below *(7.2.10.1):*

☑ *The specific perimeter sediment controls will be installed and made operational prior to conducting earth-disturbing activities in any given portion of the site that will receive storm water from earth-disturbing activities are described below (7.2.10.1b). Perimeter sediment controls will be installed and maintained throughout the duration of the project.*

☑ *If contaminated soil exists on-site, control measures will be taken to either prevent the contact of storm water with the contaminated soil, including any contaminated soil stockpiles, or prevent the discharge of any storm water runoff which has contacted contaminated soil or any contaminated soil stockpiles are described below (7.2.10.1.c). This is not applicable to the project. However, if any contamination is found on-site, the Contractor shall add the BMP measures and locations for the Engineer's review and acceptance.*

☑ *For exit points on the site (or any areas which exit onto a paved street), stabilization techniques and any additional controls that are planned to remove sediment prior to vehicle exit consistent with Section 5.1.2.3 will be taken and are described below (7.2.10.1d). Stabilized entrance locations may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer for his review and acceptance the locations of stabilized entrances once the project is awarded for inclusion in the SWPPP. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to stabilized entrances during construction for inclusion in the SWPPP.*

☑ The project is linear, and the use of perimeter controls on portions of the site is impracticable for the following reasons (7.2.10.1e):_____This is not applicable to the project, perimeter controls can be used at the project site.

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Construction debris, green waste, general litter	• *Separate contaminated clean up materials from construction and demolition (C&D) wastes.* • ***Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.*** • *Inspect construction waste and recycling areas regularly.* • *Schedule solid waste collection regularly.* • *Schedule recycling activities based on construction/demolition phases.* • *Empty waste containers weekly or when they are two-thirds full, whichever is sooner.* • ***Do not allow containers to overflow. Clean up immediately if they do.*** • ***On work days, clean up and dispose of waste in designated waste containers.*** • *See Solid Waste Management Section SM-6 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.* • *The Contractor shall submit for the Engineer's review and acceptance and SWPPP inclusion a Litter Management Plan.* [	*See Solid Waste Management Section SM-6. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.* *Contractor to include Litter Management Plan once the project is awarded.* **See Litter Management Plan.**
Materials associated	• *Use off-site wash racks, repair*	*See Vehicle and*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	*and maintenance facilities, and fueling sites when practical.* • ***Designate bermed wash area if cleaning on site is necessary.*** • ***Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.*** • ***Provide an ample supply of readily available spill cleanup materials.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.*** • *Inspect on-site vehicles and equipment regularly and immediately repair leaks.* • *Regularly inspect fueling areas and storage tanks.* • *Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.* • ***Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.*** • *Do not remove original product labels and* ***comply with manufacturer's labels for proper disposal.*** • *Dispose of containers only after all the product has been used.*	*Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13, and Material Delivery, Storage and Material Use Sections SM-2 and SM-3, and* ***Spill Prevention and Control SM-10.***

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• ***Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.*** • ***Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.*** • *See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13 and Material Use Section SM-3 for additional requirements.*	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Soil erosion from the disturbed areas	• *Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-2, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-9 ,Level Spreader SC-10, Paving Operations SM-19, Construction Road Stabilization EC-1, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Employee Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-16)* **.** • ***Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.*** • ***Preserve native topsoil where practicable.*** • ***In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth.*** • ***For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised.***	*Soil Stabilization* 1. *SM-21 Topsoil Management* 2. *EC-5 Seeding and Planting* 3. *EC-6 Mulching* 4. *EC-7 Geotextiles and Mats* *Slope Protection* 1. *EC-5 Seeding and Planting* 2. *EC-6 Mulching* 3. *EC-7 Geotextiles and Mats* 4. *EC-9 Slope Roughening, Terracing, and Rounding* 5. *SC-11 Slope Drains and Subsurface Drains* 6. *SC-12 Top and Toe of Slope Diversion Ditches and Berms* *SC-2 Storm Drain Inlet Protection*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• ***Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the following work day if removal by the same day is not feasible.*** • ***Sediment basins shall be designed and maintained in accordance with HAR Chapter 11-55.*** • ***Minimize disturbance on steep slopes (Greater than 15% in grade).*** • ***If disturbance of steep slopes are unavoidable, phase disturbances and use stabilization techniques designed for steep grades.*** • ***For temporary drains and swales use velocity dissipation devices within and at the outlet to minimize erosive flow velocities.***	*Perimeter Controls and Sediment Barriers* *1.* *2. SC-8 Compost Filter Berm* *SC-9 Check Dams* *1.* *Post Construction BMPs* *1. SM-21 Topsoil Management* *2. EC-5 Seeding and Planting* *3. EC-6 Mulching* *4. EC-7 Geotextiles and Mats* *Non-Structural BMPs* *1. SM-1 Employee Training* *2. SM-14 Scheduling* *3. SM-15 Location of Potential Sources of Sediment* *4. SM-16 Preservation of Existing Vegetation*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Sediment from soil stockpiles ****Not Applicable***	• *Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff* ***or outside of any natural buffers identified on the SWPPP****.* • *Place bagged materials on pallets and under cover.* • *Provide physical diversion to protect stockpiles from concentrated runoff.* • ***Cover stockpiles with plastic or comparable material when practicable.*** • ***Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.*** • ***Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.*** • ***Unless infeasible, contain and securely protect stockpiles from the wind.*** • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.* • *See Protection of Stockpiles Section SM-4 for additional requirements.*	*See Protection of Stockpiles Section SM-4. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.*
Emulsified asphalt or prime/tack coat ****Not Applicable***	• *Provide training for employees and contractors on proper material delivery and storage practices and procedures.* • *Restrict paving operations during wet weather to prevent paving materials from being discharged.*	*See Material Delivery and Storage Section SM-2* ***and Material Use Section SM-3****, Paving Operations Section SM-19, Protect Storm Drain*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• *Use asphalt emulsions such as prime coat when possible.* • *Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.* • ***Keep ample supplies of drip pans and absorbent materials on site.*** • *Inspect inlet protection devices.* • *See Material Delivery and Storage Section SM-2 and Paving Operations Section SM-19 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.*	*Inlets SC-2, and Perimeter Sediment Controls where applicable.*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Materials associated with painting, such as paint and paint wash solvent ****Not Applicable***	• *Hazardous chemicals shall be well-labeled and stored in original containers.* • ***Keep ample supply of cleanup materials on site.*** • *Dispose container only after all of the product has been used.* • *Remove as much paint from brushes on painted surface.* • *Rinse from water-based paints shall be discharged into the sanitary sewer system where possible. If not,* ***direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.*** • ***Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.*** • ***Do not dump liquid wastes into the storm drainage system.*** • *Filter and re-use solvents and thinners.* • *Dispose of oil-based paints and residue as a hazardous waste.* • *Ensure collection, removal, and disposal of hazardous waste complies with regulations.* • ***Immediately clean up spills and leaks.*** • *Properly store paints, solvents, and epoxy compounds.* • *Properly store and dispose waste materials generated from painting and structure repair and construction activities.*	*See Material Delivery and Storage Section SM-2, Material Use Section SM-3, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• *Mix paints in a covered and contained area when possible to minimize adverse impacts from spills.* • *Do not apply traffic paint or thermoplastic if rain is forecasted.* • *See Material Delivery and Storage Section SM-2, Material Use SM-3, Waste Management, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.*	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Industrial chemicals, fertilizers, and/or pesticides	• *Hazardous chemicals shall be well-labeled and stored in original containers.* • ***Keep ample supply of cleanup materials on site.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.*** • *Dispose container only after all of the product has been used.* • *Retain a complete set of safety data sheets (formerly MSDS) on site.* • ***Store industrial chemicals in water-tight containers and provide either cover or secondary containment.*** • ***Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.*** • *Restrict amount of pesticide prepared to quantity necessary for the current application.* • ***Do not apply fertilizers or pesticides during or just before a rain event.*** • ***Do not apply to stormwater conveyance channels with flowing water*** • ***Comply with fertilizer and pesticide manufacturer's recommended usage and disposal instructions. Document departures from manufacturer's***	*See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9, and* ***Spill Prevention and Control SM-10***

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	specifications in Attachment J. • ***Apply fertilizers 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.*** • ***Follow federal, state, and local laws regarding fertilizer application.*** • ***Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris.*** • ***Ensure collection, removal, and disposal of hazardous waste complies with regulations. Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.*** • *See Material Delivery and Storage Section SM2, Material Use SM-3, and Waste Management, Hazardous Waste Management Section SM-9 for additional requirements.*	
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.) ***Not Applicable**	• *Do not dispose of toxic materials in dumpsters allocated for construction debris.* • ***Ensure collection, removal, and disposal of hazardous waste complies with regulations.*** • ***Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.*** • *Segregate and recycle wastes from vehicle/equipment maintenance activities such as*	*See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids. • ***Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.*** • ***All containers stored outside shall be kept away from surface waters and within appropriately-sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.*** • ***Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.*** • *See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12*	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	for additional requirements.	
Metals and Building Materials ***Not Applicable**	• *Inspect construction waste and recycling areas regularly.* • *Schedule solid waste collection regularly.* • ***If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.*** • *Minimize the amount of material stored on site.* • ***Do not stockpile uncovered metals or other building materials in close proximity to discharge points.*** • *See Solid Waste Management Section SM-6 for additional requirements.*	*See Solid Waste Management Section SM-6*
Contaminated Soil ***Not Applicable**	• *See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Waste Management Section SM-9 for additional requirements.* • ***At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets.***	*See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Waste Management Section SM-9*
Dust Control Water ***Applicable As Noted** or **Not Applicable** (If no indication, then all Site-Specific BMPs are Applicable)*	• *Do not over spray water for dust control purposes which will result in runoff from the area.* • ***Apply water as conditions require.*** • *Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.*	*See Dust Control Section SM-18*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• *See Dust Control Section SM-18 for additional requirements.*	
Concrete Truck Wash Water	• *Disposal of concrete truck wash water via percolation is prohibited.* • *Wash concrete-coated vehicles or equipment off-site or in the designated wash area.* • *Locate on-site wash area a minimum of 50 feet away* ***or as far as practicable*** *from storm drain inlets, open drainage facilities, or water bodies.* • *Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.* • ***Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.*** • *The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.* • *Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.* • ***Do not dump liquid wastes into storm drainage system.*** • ***Dispose of liquid and solid concrete wastes in compliance with federal, state, and local***	*See Waste Management, Concrete Waste Management Section SM-5*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	standards. • *See Waste Management, Concrete Waste Management Section SM-5 for additional requirements.*	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Sediment Track-Out	• ***Include Stabilized Construction Entrance at all points that exit onto paved roads.*** • *A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.* • *The pavement shall not be cleaned by washing down the street.* • *If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.* • *Use BMPs for adjacent drainage structures.* • ***Remove sediment tracked onto the street by the end of the day in which the track-out occurs.*** • ***Restrict vehicle use to properly designated exit points.*** • *Include additional BMPs that remove sediment prior to exit when minimum dimensions can not be met.* • *See Stabilized Construction Entrance Section EC-2 for additional requirements.*	*See Stabilized Construction Entrance Section EC-2*
Irrigation Water	• *Consider irrigation requirements.* • *Where possible, avoid species*	*See Seeding and Planting Section EC-5 and California*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	which require irrigation. • *Design timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.* • *See Seeding and Planting Section EC-5 and California Stormwater BMP Handbook SD-12 Efficient Irrigation included in SWPPP Attachment A for additional requirements.*	*Stormwater BMP Handbook SD-12 Efficient Irrigation*
Hydrotesting Effluent ***Not Applicable**	• *If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Hydrotesting Activities if necessary. Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.*	*Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.*
Dewatering Effluent ***Not Applicable**	• *If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a*	*See Dewatering Operations SM-17. Site specific BMPs will be included in the NOI/NPDES Permit Form G submittal.*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-17 for additional requirements.	
Saw-cutting Slurry ***Not Applicable**	• *Saw cut slurry shall be removed from the site by vacuuming.* • *Provide storm drain protection during saw cutting. See Paving Operations Section SM-19 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.*	*See Paving Operations Section SM-19, Storm Drain Inlet Protection SC-2, Perimeter sediment controls where applicable*
Concrete Curing Water	• *Avoid overspraying of curing compounds.* • *Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.* • *See California Stormwater BMP Handbook NS-12 Concrete Curing included in SWPPP Attachment A for additional requirements.*	*See California Stormwater BMP Handbook NS-12 Concrete Curing*
Plaster Waste Water ***Not Applicable**	• ***Direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.***	*See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• ***Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.*** • *Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of.* • ***Plaster waste water shall not be allowed to flow into drainage structures or State waters.*** • *See Material Delivery and Storage Section SM-2, Material Use SM-3, and Hazardous Waste Management Section SM-9 for additional requirements.*	*SM-9*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Water-Jet Wash Water	• *For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.* • *See Vehicle and Equipment Cleaning Section SM-11 for additional information.* • *For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.*	*See Vehicle and Equipment Cleaning Section SM-11*
Sanitary/Septic Waste	• *Locate Sanitary facilities in a convenient place away from drainage facilities.* • ***Position sanitary facilities so they are secure and will not be tipped over or knocked down.*** • *Wastewater shall not be discharged to the ground or buried.* • *A licensed service provider shall maintain sanitary/septic facilities in good working order.* • *Schedule regular waste collection by a licensed transporter.* • *See Sanitary/Septic Waste Section SM-7 for additional requirements.*	*See Sanitary/Septic Waste Section SM-7.*

7.2.10.2 – Stabilization Practices

Describe the specific vegetative and/or non-vegetative practices that will be used to comply with the requirements in HAR Chapter 11-55, Section 5.2., including if the permittee will be

complying with the stabilization deadlines specified in HAR Chapter 11-55, Section 5.2.1.3.2. Document the circumstances that prevent the permittee from meeting the deadlines specified in Sections 5.2.1.1. and/or 5.2.1.2.

The term "immediately" is used to define the deadline for initiating stabilization measures. In the context of this SWPPP section, "immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased (5.2.1.1).

For the purposes of this SWPPP section, any of the following types of activities constitutes initiation of stabilization (5.2.1.1):

a) *Prepping the soil for vegetative or non-vegetative stabilization;*
b) *Applying mulch or other non-vegetative product to the exposed area;*
c) *Seeding or planting the exposed area;*
d) *Starting any of the activities in a) – c) on a portion of the area to be stabilized, but not on the entire area; and*
e) *Finalizing arrangements to have stabilization product fully installed in compliance with the applicable deadline for completing initial stabilization activities.*

For the purposes of this SWPPP section, any of the following types of activities constitutes completion of initial stabilization activities (5.2.1.1):

a) *For vegetative stabilization, all activities necessary to initially seed or plant the area to be stabilized; and/or*
b) *For non-vegetative stabilization, the installation or application of all such non-vegetative measures.*

If the Contractor is unable to meet the deadlines above due to circumstances beyond the Contractor's control, and the Contractor is using vegetative cover for temporary or permanent stabilization, the Contractor may comply with the following stabilization deadlines instead as agreed to by the Engineer (5.2.1.3.1):

5.2.1.3.1.1.
Immediately initiate, and complete within the timeframe shown below, the installation of temporary non-vegetative stabilization measures to prevent erosion;

5.2.1.3.1.2.
Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions or circumstances allow it on the site; and

5.2.1.3.1.3.

The Contractor shall notify and provide documentation to the Engineer the circumstances that prevent the Contractor from meeting the deadlines required in Sections 5.2.1.1. and/or 5.2.1.2. and the schedule the Contractor will follow for initiating and completing initial stabilization and as agreed to by the Engineer. Include this information in this SWPPP.

The Contractor shall follow the applicable requirements of the Specifications and Special Provisions including Section 209 Temporary Water Pollution, Dust, and Erosion Control; Section 619 Planting; and Section 641 Hydro-Mulch Seeding.

Final Stabilization
To be considered adequately stabilized, the permittee shall meet the criteria below depending on the type of cover the permittee is using, either vegetative or non-vegetative.

5.2.2.1. Vegetative stabilization.

5.2.2.1.1.1.
If the permittee is vegetatively stabilizing any exposed portion of the site through the use of seed or planted vegetation, the permittee shall provide established uniform vegetation (e.g., evenly distributed without large bare areas), which provides 70 percent or more of the density of coverage that was provided by vegetation prior to commencing earth-disturbing activities. The permittee should avoid the use of invasive species; (HDOT requires 98% coverage for permanent hydromulch per Specification and Special Provision Sections 619 Planting and 641 Hydro-Mulch Seeding.) The Designer needs to meet the 70% requirement above when designing plantings and ground cover which do not involve hydromulch. If the Designer uses a soil test to determine amounts, rates, and type of fertilizer, and the amount and rate is not consistent with manufacturer's specifications, the Designer should document this in this SWPPP in Attachment J.

5.2.2.1.1.2.
For final stabilization, vegetative cover must be perennial; and

5.2.2.1.1.3.
Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or planted area, the Contractor shall install non-vegetative erosion controls that provide cover (e.g., mulch, rolled erosion control products) to the area while vegetation is becoming established.

5.2.2.2. Non-Vegetative Stabilization.
If the permittee is using non-vegetative controls to stabilize exposed portions of the site, or if the Contractor is using such controls to temporarily protect areas that are being vegetatively stabilized, the Contractor shall provide effective non-vegetative cover.

The stabilization schedule for this project is:

Outfalls 1, 2, 3, 4, 5, 6, and 7 discharge to nutrient or sediment impaired waters. *The following applies to construction areas discharging to these outfalls:*

> *Immediately initiate and complete stabilization within 7 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased.*

All areas of soil disturbance will be overlaid with concrete, erosion control matting, and/or hydromulch. Poamoho Stream is an impaired water for Total N, NO3+NO2, Total P, and Turbidity. Kaukonahua Stream is impaired for Total N, NO3+NO2, Total P, Turbidity, and TSS. Waikele Stream is impaired for Total N, NO3+NO2, and Turbidity. Pearl Harbor (Aiea Bay) is impaired for Total N, Total P, Turbidity, NH4, Chl a. Halawa Stream is impaired for Total N, NO3+NO2, Total P, and Turbidity. Keehi Lagoon is impaired for Enterococcus. The Contractor will be complying with the deadlines in Section 5.2.1.3.2, with completion of initial plantings within 7 calendar days of completion of prepping the soil for planting. Mulch will be applied to the exposed areas. The Contractor shall notify the Engineer for his agreement if any stabilization practices or timetables to complete stated above will not be followed and document the reasons in the SWPPP below.

The deadlines for initiating and completing stabilization in *Sections 5.2.1.1.* and/or *5.2.1.2.* cannot be met because of the following (Note: Document location(s,)reasons, and schedule)_____

7.2.10.3 – Post Construction Measures

Descriptions of measures that will minimize the discharge of pollutants via storm water discharges after construction operations have been finished. Examples include: open, vegetated swales and natural depressions; structures for storm water retention, detention, or recycle; velocity dissipation devices to be placed at the outfalls of detention structures or along with the length of outfall channels; and other appropriate measures. All projects require post construction BMPs to minimize the discharge of pollutants via storm water discharges after construction operations have been finished. Examples include: open, vegetated swales and natural depressions; structures for storm water retention, detention, or recycle; velocity dissipation devices to be placed at the outfalls of detention structures or along with the length of outfall channels; and other appropriate measures. All projects require post-construction BMPs to minimize the discharges of pollutants via storm water discharges after construction operations have finished.

7.2.11.1 – Spill Prevention and Response Procedures

The SWPPP must describe procedures that the permittee will follow to prevent and respond to spills and leaks consistent with Section 5.3., including:

a. Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases. Identify the name or position of the employee(s) responsible for detection and response of spills or leaks; and

b. Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies 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 consistent with Section 5.3.4. and 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 post contact information in locations that are readily accessible and available.

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 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, the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov during non-business hours immediately, and the Engineer. 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. State and local requirements may necessitate additional reporting of spills or discharges to local emergency response, public health, or drinking water supply agencies (HAR Chapter 11-55 5.3.4). The Contractor shall submit to the Engineer information necessary to complete the reporting requirements.

☒ The Spill Prevention and Response Procedures are included in SWPPP Attachment F.
The Contractor shall update the Spill Prevention and Response Procedures in the SWPPP once the project is awarded for the Engineer's review and acceptance.

7.2.11.2 – Waste Management Procedures

The SWPPP must describe procedures for how the permittee will handle and dispose of all wastes generated at the site, including, but not limited to, clearing and demolition debris, sediment removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste.

☒ The Waste Management Procedures are included in SWPPP Attachment G.
The Contractor shall update the Waste Management Procedures in the SWPPP once the project is awarded for the Engineer's review and acceptance.

7.2.12 – Procedures for Inspection, Maintenance, and Corrective Action

The SWPPP must describe the procedures the permittee will follow for maintaining the storm water control measures, conducting site inspections, and, where necessary, taking corrective actions, in accordance with Section 5.1.1.4., Section 5.3.2., Section 9, and Section 10 of the permit. The following information must also be included in this SWPPP:

a. Personnel responsible for conducting inspections: **Field Office Engineer and/or Inspector, AND Contractor Representatives.**

Qualifications: *HDOT construction staff and HDOT Contractors attend Stormwater BMP Classes annually. Contractor representatives selected for the inspection and maintenance responsibilities shall receive training from the Contractor. The Contractor's Representatives shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order. The Contractor's Representative(s) inspecting the site shall be knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact storm water quality, and the skills to assess the effectiveness of any storm water controls selected and installed to meet the requirements of this permit.*

b. The inspection schedule the permittee will be as follows, which is based on whether the site is subject to Section 9.1.2. or Section 9.1.3., and whether the site qualifies for any of the allowances for reduced inspection frequencies in 9.1.4. If the permittee will be conducting inspections in accordance with the inspection schedule in Section 9.1.2.a. or Section 9.1.2.b., the location of the rain gauge on the site or the address of the weather station the permittee will be using to obtain rainfall data;

Describe the inspection schedules and procedures you have developed for the site. *Include the maintenance requirements for each BMP (e.g., level of sediment buildup allowed):*
All Construction BMPs shall be inspected weekly, and within 24 hours of any rainfall event of 0.25 inches or greater in a 24 hour period. The Contractor shall submit a copy of the SWPPP Inspection and Maintenance Report Form to the Engineer within 24 hours of the inspection.

Maintenance requirements for specific BMPs are included in the HDOT Construction BMP Field Manual. The Contractor shall initiate work to fix the problem immediately after discovering the problem, and complete such work 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. In this section, "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. When installation of a new pollution prevention control or a significant repair is needed, the Contractor shall install the new or modified control and make it operational, or complete the repair, by no later than 7 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 7 calendar days, the Contractor shall provide notice to the Engineer and document why it is infeasible to complete the installation or repair within the 7 calendar day timeframe and document the schedule for installing the storm water control(s) and making it operational as soon as practicable after the 7 calendar day timeframe and as agreed to by the Engineer. Where these actions result in changes to any of the pollution prevention controls or procedures documented in the SWPPP, modify the SWPPP accordingly. The Contractor will attach product specific maintenance practices as well as product installation instructions in the SWPPP once the project is awarded.

c. Use the Corrective Action Report Form for any the following (10.2.1 and 10.4.1):

- *A required storm water control was never installed, was installed incorrectly, or not in accordance with the requirements in HAR Chapter 11-55 Sections 5 and/or 6.*
- *The Contractor/Engineer becomes aware that the storm water controls installed and being maintained are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in HAR Chapter 11-55 Section 6.1.*
- *One of the prohibited discharges below is occurring or has occurred:*
    - *Wastewater from washout of concrete*
    - *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials*
    - *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance*
    - *Soaps, solvents, or detergents used in vehicle and equipment washing*
    - *Toxic or hazardous substances from a spill or other release*

- *Corrective actions required by the Department of Health or Environmental Protection Agency (EPA)*

Note: Corrective actions must be included with the monthly compliance report in Attachment E1.

d. Any inspection or maintenance checklists or other forms that will be used.

☒ The Inspection Report Form provided in SWPPP Attachment E1 will be used.

☒ The Corrective Action Report Form provided in SWPPP Attachment E1 will be used.

7.2.13 – Staff Training

The SWPPP must include documentation that the required personnel were trained in accordance with the following:

Prior to the commencement of earth-disturbing activities or pollutant-generating activities, whichever occurs first, the permittee shall ensure that the following personnel understand the requirements of this permit and their specific responsibilities with respect to those requirements:

a. Personnel who are responsible for the design, installation, maintenance, and/or repair of storm water controls (including pollution prevention measures);

b. Personnel who are responsible for the application and storage of chemicals (if applicable);

c. Personnel who are responsible for conducting inspections as required in Part 4.1.1; and

d. Personnel who are responsible for taking corrective actions as required in Part 5.

The Contractor is responsible for ensuring that all activities on the site comply with the requirements of this permit. The Contractor is not required to provide or document formal training for subcontractors or other outside service providers, but must ensure that such personnel understand any requirements of the permit that may be affected by the work they are subcontracted to perform.

At a minimum, personnel must be trained to understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections):
a. The location of all storm water controls on the site required by this permit, and how they are to be maintained;
b. The proper procedures to follow with respect to the permit's pollution prevention requirements; and

c. When and how to conduct inspections, record applicable findings, and take corrective actions.

The Engineer will discuss the roles and responsibilities of HDOT and the Contractor in the SWPPP during the Water Pollution, Dust, and Erosion Control Meeting.

☒ The Contractor Certification is included in Attachment B.

7.2.14 – Documentation of Compliance with Safe Drinking Water Act Underground Injection Control (UIC) Requirements for Certain Subsurface Storm Water Controls

Document any contact with the DOH Safe Drinking Water Branch if any of the following storm water controls are used at the site:

❑ *Infiltration trenches (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system);*

❑ *Commercially manufactured precast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate storm water flow;*

❑ *Drywells, seepage pits, or improved sinkholes (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system).*

If any of the boxes above are checked, attach documentation in SWPPP Attachment J.

7.2.15 –Other State, Federal, or County Permits

Include in SWPPP Attachment J any of the following permits or approvals:

☐Attach the Drainage System Owner(s) Approval to Discharge, in Attachment J- *N/A*.

❑ Check this box if the Certifying Person is responsible for the overall operation and maintenance of the Separate Drainage System and approves of the storm water discharge into their drainage system.

County-approved Erosion and Sediment Control Plan and/or Grading Permit

a. Is a County-approved Erosion and Sediment Control Plan and/or Grading Permit, where applicable for the activity and schedule for implementing each control, required?
   ☑ Yes. Please complete Section b below and skip Section c.
   ❑ No. Please complete Section c below and skip Section b.

b. Is a copy County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, attached?
   ❑ Yes, see Attachment J _____
   ☑ No, the County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, will be submitted at least 30 calendar days before the start of construction activities.

c. Please select and complete at least one (1) of the following items to demonstrate that a County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, is not required.
   ❑ See Attachment J _____ for the County written determination.
   ❑ Provide the County contact person information (Name, Department, Phone Number, and Date Contacted): _____
   ❑Other (specify): Per agreement with the City and County of Honolulu, this project falls under the typical project not requiring a grading permit (Landscaping Improvements).

❑ Department of the Army Permit (Section 404) and Section 401 Water Quality Certification:

If the project requires work in, above, under or adjacent to State waters, please contact the Army Corps of Engineers (COE) Regulatory Branch at (808) 438-9258 regarding their permitting requirements. Provide a copy of the COE permitting jurisdictional determination (JD) or the JD with COE Person's Name, Phone Number, and Date Contacted.

❑ List other permits below (No copy necessary in Attachment J)

7.2.16 –Other Information As Requested by the Director

☒ *Does DOH require any additional information per Section 7.2.16? If so attach in Attachment J.*

N/A

7.2.17 Certification of the CWB SWPPP

The certifying person and duly authorized representative shall meet the requirements of Hawaii Administrative Rules 11-55, Appendix A, Section 15.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ *Date:* _____

Person Name: George Abcede

Person Position Title: Oahu District Engineer

Person Company or Agency: Department of Transportation

Department: Department of Transportation

Division: Department of Transportation, Highways Division

Phone Number: (808) 831-6700 ext 126 *Fax No.:* (808) 831-6725

Person Email: george.abcede@hawaii.gov

7.2.18 Post-Authorization Additions to the SWPPP

After the issuance of the NGPC include the following documents as part of the SWPPP in Attachment K:

a. A copy of the NOI submitted to the department along with any correspondence exchanged between HDOT and DOH related to coverage under this permit;

b. A copy of the NGPC and all attachments included with the NGPC (an electronic copy easily available to the storm water team is acceptable)

7.4 Required SWPPP Modifications

Modify the SWPPP, including the site map(s), in response to any of the following conditions:

7.4.1.1.
Whenever new contractors become active in construction activities on the site, or changes are made to the construction plans, storm water control measures, pollution prevention measures, or other activities at the site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered under Section 10. The permittee does not need to modify the SWPPP if the estimated dates in Section 7.2.5. change during the course of construction;

7.4.1.2.
To reflect areas on the site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;

7.4.1.3.
If inspections or investigations by site staff, or by local, state, or federal officials determine that SWPPP modifications are necessary for compliance with this permit;

7.4.1.4.
Where DOH determines it is necessary to impose additional requirements on the discharge, the following must be included in the SWPPP:

a. A copy of any correspondence describing such requirements; and
b. A description of the storm water control measures that will be used to meet such requirements.

7.4.1.5.
To reflect any revisions to applicable federal, state, and local requirements that affect the storm water control measures implemented at the site; and
7.4.2. Deadlines for SWPPP modifications.
The permittee shall complete required revisions to the SWPPP within 7 calendar days following the occurrence of any of the conditions listed in Section 7.4.1.

7.4.3. SWPPP modification records.
The permittee shall maintain records showing the dates of all SWPPP modifications. The records must include a signature of the person authorizing each change (see Section 7.2.17), date, and a brief summary of all changes. Log all changes and include relevant attachments in Attachment I.

7.4.4. Certification requirements.
All modifications made to the SWPPP consistent with Section 7.4. must be certified, signed, and dated by the Certifying Person that meets the requirements in Section 15 of appendix A, chapter 11-55 or the duly authorized representative that meets the requirements of 11-55-07(b). (See Section 7.2.17)

7.4.5. Required notice to other contractors.
Upon determining that a modification to the SWPPP is required, if there are multiple contractors covered under this permit, the Contractor shall immediately notify any contractors who may be impacted by the change to the SWPPP.

13.0 Monthly Compliance Report Submittal Requirements

Submit to the Engineer a monthly compliance report, which shall include, but is not limited to, information as required in the NGPC, any updates to NOI information already on file with DOH, and any incidences of non-compliance and corrective actions. Submit this information within 2 working days of the end of the month. The monthly compliance report shall be kept on-site and available by the end of the next business day when requested by DOH. Upon DOH receiving EPA's Cross-Media Electronic Reporting Regulation (CROMERR), the monthly compliance reports shall be submitted through the e-Permitting Portal. Any comments provided by DOH shall be answered in the time specified and to the satisfaction of DOH. If the activity is in compliance and none of the information on file with DOH requires updating, or there were no incidences of non-compliance, preparation of the monthly compliance information is still required which states that there were "no changes, updates, or any incidences of non-compliance to report.

Note: EPA's Cross-Media Electronic Reporting Regulation (CROMERR) sets performance-based, technology-neutral standards for systems that states, tribes, and local governments use to receive electronic reports from facilities they regulate under EPA-authorized programs and requires program modifications or revisions to incorporate electronic reporting. CROMERR also addresses electronic reporting directly to EPA.

☒ **HDOT's form in Attachment E4 will be used.**