FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11M	2012	6	49

BEST MANAGEMENT PRACTICE NOTES:

The following special conditions apply to all land disturbance work conducted under this general permit:

a) Construction Management Techniques

(1) Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation.

(2) Construction shall be sequenced to minimize the exposure time of the cleared surface area.

(3) Construction shall be staged or phased for large projects. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily or permanently protecting the disturbed soil surface from rainfall impacts and runoff.

(4) All control measures shall be checked and repaired as necessary, for example, weekly in dry periods and within twenty-four hours after any rainfall of 0.5 inches or greater within a 24-hour period. During prolonged rainfall, daily checking is necessary. The permittee shall maintain records of checks and repairs.

(5) The permittee shall maintain records of the duration and estimated volume of storm water discharge(s).

(6) The Contractor shall designate a specific individual to be responsible for erosion and sediment controls on each project site.

b) Vegetation Controls

(1) Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than twenty calendar days prior to land disturbance.

(2) Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than thirty calendar days.

(3) Permanent soil stabilization with perennial vegetation or pavement shall be applied as soon as practical after final grading. Irrigation and maintenance of the perennial vegetation shall be provided for thirty calendar days or until the vegetation takes root, whichever is shorter.

c) Structural Controls

(1) Storm water flowing toward the construction area shall be diverted by using appropriate control measures, as practical.

(2) Erosion control measures shall be designed according to the size of disturbed or drainage areas to detain runoff and trap sediment.

(3) 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 Hawaii Administrative Rules Title 11, section 11-54-04.

d) Grading Controls

(1) All grading work will be done in conformance with Soil Erosion Standards and Guidelines, Department of Public Works, City & County of Honolulu, dated November 1975; and applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, Title 11, Administrative Rules of the State Department of Health.

e) Erosion and Sediment Controls

(1) Erosion and sediment controls will consist of silt fences, storm drain inlet protective measures, stabilized construction entrances and any additional control measures (temporary dikes, sandbags, etc.) as needed. Erosion and sediment controls will be in place until construction is complete. Locations of erosion and sediment controls will be determined on an "as needed basis" as determined by a "walk through" of the project area with the State's project engineer and the Contractor's representative. Approximate locations of erosion and sediment controls are shown on the plans.

(2) Silt fences will be installed along the edges of open channels, ditches, and bottom of new and existing slopes to filter sediment from runoff before runoff enters the stream, channels, and/or ditches.

(3) Storm drain inlet protective measures will be installed around existing and new drain inlets to prevent sediment from entering the storm drain system.

(4) Dust mitigation measures include:
1. Daily watering of disturbed areas until construction is complete.
2. Placing gravel where vehicles travel to minimize dust should daily watering not be sufficient.

ORIGINAL PLAN | SURVEY PLOTTED BY ____ DATE ____
DRAWN BY ____
TRACED BY ____
NOTE BOOK | DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____
No. ____ DATE ____

J:/FORT WEAVER ROAD/PACKAGE2/EROSION/N-4.dgn

JAIME M. SAAVEDRA ★ LICENSED PROFESSIONAL ENGINEER No. 7309-C ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 04/30/12 EXPIRATION DATE OF THE LICENSE

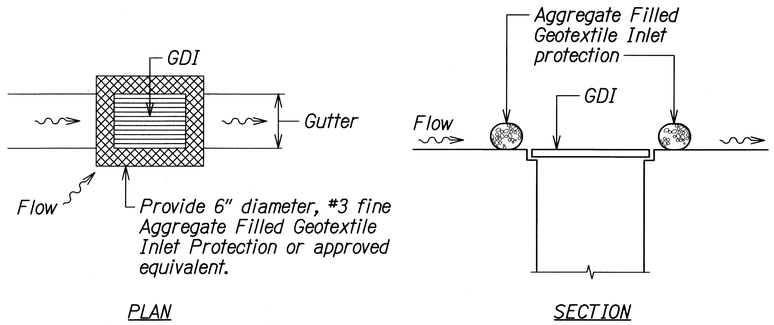
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BEST MANAGEMENT PRACTICE NOTES
INTERSTATE ROUTE H-1
AIEA STREAM EROSION CONTROL
Project No. H1E-01-11M

Scale: None Date: September 2011

SHEET No. N-4 OF 8 SHEETS

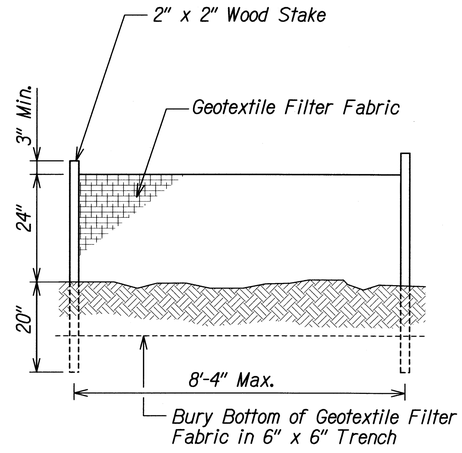
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11M	2012	7	49

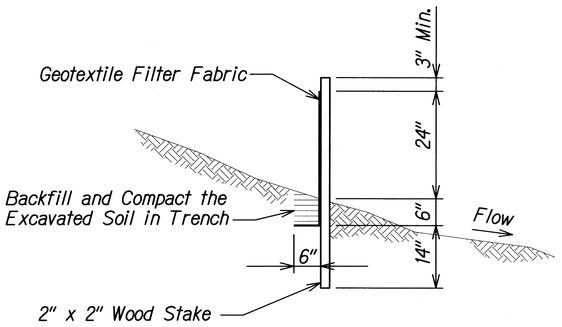


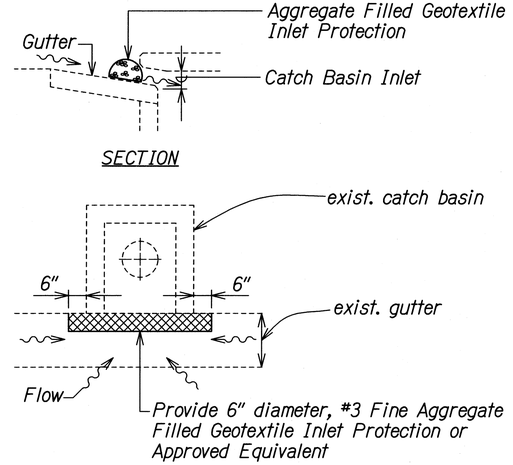
PLAN SECTION

INLET PROTECTION AT GRATED DROP INTAKE (GDI)

Not to Scale







INLET PROTECTION AT EXISTING CATCH BASIN

Not to Scale

SILT FENCE NOTES:

1. The filter fabric shall be a minimum of 36 inches wide.
2. If silt fence is obtained from manufacturer as a package (i.e. fabric attached to post) the manufacturer's installation instructions shall be adhered to.

SILT FENCE DETAIL

Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAFN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

J:/SSWMP-Aiea Stream Erosion Control/Cadd/Sheets/N-5.dgn

JAIME M. SAAVEDRA LICENSED PROFESSIONAL ENGINEER No. 7309-C HAWAII, U.S.A.

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SIGNATURE 04/30/12 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BEST MANAGEMENT PRACTICE DETAILS

INTERSTATE ROUTE H-1
AIEA STREAM EROSION CONTROL
Project No. H1E-01-11M

Scale: Not to Scale Date: September 2011

SHEET No. N-5 OF 8 SHEETS