

ATTACHMENT H

SITE RESTORATION PLAN

AIEA STREAM SITE RESTORATION PLAN

October 2012

Once the Shotcrete Wall and appurtenant permanent construction work have been completed, the area around the construction site shall be restored to its original condition to the maximum extent practicable.

The restoration work is currently scheduled to occur in the latter part of 2013 (October/November).

Restoration will be conducted as follows (see Attachment 1):

- 1) Prior to the site restoration work, the contractor shall install a temporary silt fence across the downstream portion of the work site to contain work area from discharging potential pollutants into Aiea Stream during the restoration work.
- 2) Restoration includes the following:
 1. Removal of the following BMPs:
 - a. 2-36" HDPE Pipes
 - b. 12" HDPE Spillway Pipe
 - c. Silt Fence and Sandbag Barrier
 - d. Sandbag Dams
 - e. Riprap Outlet protection
 2. Removal of the Construction Access (work area) - as the bottom layer of geotextile is encountered, it shall also be removed and placed into the dump truck.
 3. Removal of Fiber Roll along southern portion of construction access.
 4. Boulders that were previously identified by the Engineer to keep onsite during the installation of the HDPE pipes and other temporary BMPs shall be placed back at the existing locations to the maximum extent practicable.
- 3) After the streambed is restored, the Fiber Roll at the top of the slope above the Shotcrete Wall and the Stabilized Construction Entrance shall be removed.

- 4) The stream bank slopes and any other areas that are outside of the limits of Shotcrete Wall, which were affected by construction work shall be seeded and grassed. Use slow-release, natural, organic fertilizer and isolate the planted area with impervious sandbags.
- 5) Dumped Riprap shall be placed along the stream and bank, where the temporary stream crossing and part of Construction Entrance/Exit were located. Geocells backfilled with trench backfill material will restore a portion of the slope that the access road traversed through.
- 6) The remaining Fiber Rolls and 12" bypass pipe shall remain in place until the Engineer determines that the project is complete. After project is complete, Fiber Rolls and 12" bypass pipe shall be removed manually. Removal of dust screens as approved by Engineer.

The material disposal site shall be submitted to the Engineer fourteen (14) days prior to the project construction commencement date. The Engineer will submit to DOH within seven (7) days before the project construction commencement date.

ATTACHMENT 1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1E-01-11MR	2013	25	49

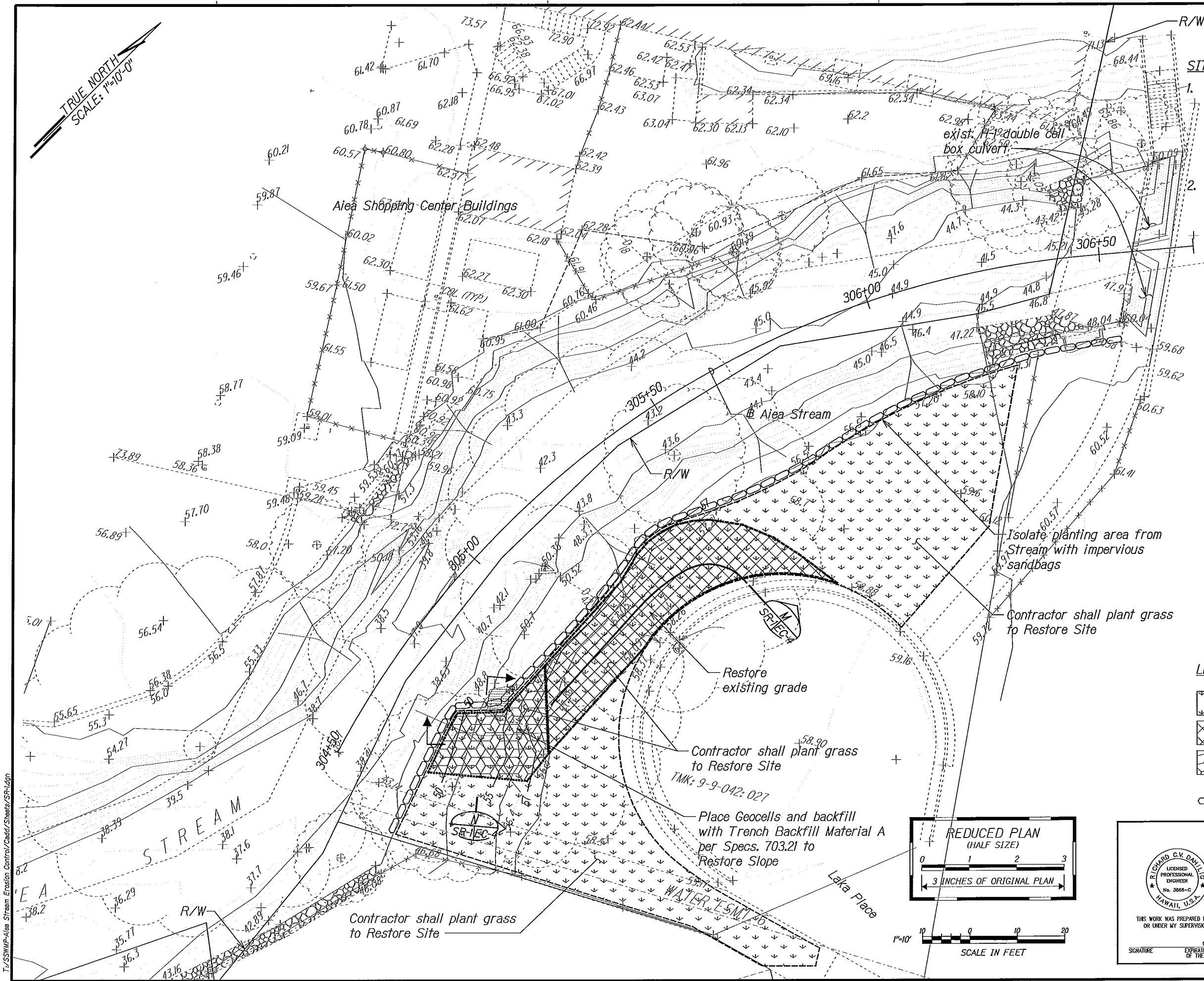
SITE RESTORATION:

- The Contractor's attention is directed to Attachment H of the Interstate Route H-1, Aiea Stream Erosion Control Water Quality Certification (WQC) application which further details site restoration steps that shall be taken as part of the WQC.
- As specified in the Site Restoration Plan, the Contractor shall:
 - Install Silt Fence A (See Sheet EC-2).
 - Remove the following BMP's:
 - 2-36" HDPE Pipes
 - 12" HDPE Spillway Pipe
 - Silt Fence and Sandbag Barrier
 - Sandbag Dam
 - Riprap Outlet Protection
 - Fiber Roll above Shotcrete Wall
 - Stabilized Construction Entrance/Exit
 - Remove 10' wide construction access and restore existing grade.
 - Place Geocells and backfill with Trench Backfill Material A to Restore Slope.
 - Plant Grass.
 - Remove remaining fiber rolls and 12" HDPE Bypass Pipe.
 - Remove Silt Fence A.
 - Relocate portions of Fiber Roll No. 3 after Construction Access Road is restored.
 - Remove Dust Screen and Fiber Rolls Nos. 2 & 3 after plant establishment.
 - Remove impervious sandbags after grass has been established.

LEGEND:

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SURVEY PLATTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: _____ EXPIRATION DATE OF THE LICENSE: 04/30/14

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE RESTORATION PLAN

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

Scale: 1"=10' Date: September 2012

SHEET No. SR-1 OF 1 SHEETS