

ATTACHMENT A-7

Erosion Control Drawings
(Item C.8 of NOI Form C)

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	10	41

WATER POLLUTION AND EROSION CONTROL NOTES (CONT.)

F. SITE SPECIFIC REQUIREMENTS:

Each BMP below is referenced to the corresponding section of the HDOT Construction Best Management Practices Field Manual dated January 2008 and appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at http://stormwaterhawaii.com/contractors/contractors_BMPmanual.aspx under Concrete Curing and Irrigation Water.

The requirements for Water Pollution, Dust, and Erosion Control submittals are included in Section 209 of the Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable Special Provisions. A list of pollutant sources and corresponding BMP used to mitigate the pollutants are included in Section 209 of the Special Provisions under Appendix A.

Follow the requirements below:

1. Protect all Drainage Inlets receiving runoff from disturbed areas (SC-2).
2. Contain on-site runoff using Perimeter Sediment Controls
 - a. SC-1 Silt Fence
 - b. SC-5 Vegetated Filter Strips and Buffers
 - c. SC-8 Compost Filter Berm
 - d. SC-13 Sandbag Barrier
 - e. SC-14 Brush or Rock Filter
3. Control offsite runoff from entering construction area
 - a. EC-8 Run-On Diversion
 - b. SC-6 Earth Dike
 - c. SC-7 Temporary Drains and Swales
4. Incorporate applicable Site Management BMP
 - a. SM-1 Employee Training
 - b. SM-2 Material Delivery and Storage
 - c. SM-3 Material Use
 - d. SM-4 Protection of Stockpiles
 - e. SM-6 Solid Waste Management
 - f. SM-7 Sanitary/Septic Waste Management
 - g. SM-9 Hazardous Waste Management
 - h. SM-10 Spill Prevention and Control
 - i. SM-11 Vehicle and Equipment Cleaning
 - j. SM-12 Vehicle and Equipment Maintenance
 - k. SM-13 Vehicle and Equipment Refueling
 - l. SM-14 Scheduling
 - m. SM-15 Location of Potential Sources of Sediment
 - n. SM-16 Preservation of Existing Vegetation
 - o. SM-18 Dust Control
5. Contain pollutants within the Construction Staging/Storage Area BMP with applicable Perimeter Sediment Controls and Site Management BMP. Include a Stabilized Construction Entrance/Exit (EC-2) for all areas which exit onto a paved street. Restrict vehicle access to these points.
6. Manage Concrete Waste including installing a Concrete Washout Area (SM-5) and properly disposing of Concrete Curing Water (California Stormwater BMP Handbook NS-12 Concrete Curing).
7. Remove saw cut slurry and hydrodemolition water from the site by vacuuming. Provide storm drain protection and/or perimeter sediment controls during saw cutting and hydrodemolition work.

EROSION CONTROL/BEST MANAGEMENT PRACTICES NOTES

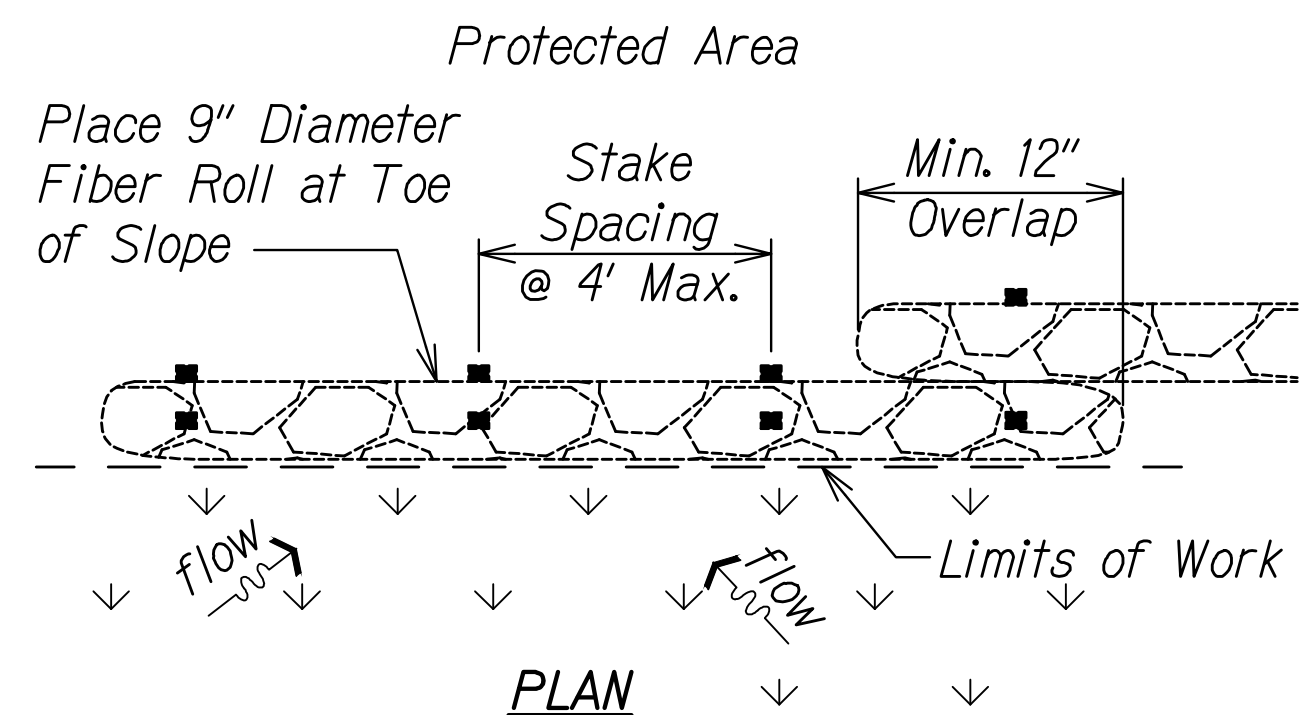
1. The Contractor, at his own expense, shall keep the project areas and surrounding areas free from dust nuisance. The work shall be done in conformance with air pollution control standards contained in Hawaii Administrative Rules: Chapter 11-60, "Air Pollution Control".
2. Measures to control erosion and other pollutants shall be in place before any grading work is initiated. These measures shall be properly constructed and maintained throughout the construction period of each site.
3. Construction shall be sequenced to avoid disturbance at all project sites at one time and minimize exposure time of the cleared surface area.
4. The Contractor shall observe and comply with the State Department of Health regulations regarding storm water discharge.
5. All erosion 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. During an event of above normal rainfall, the Contractor shall remove the sediment and drain inlet filter and reinstall them after the event has passed. The Contractor shall maintain records of all checks and repairs.
6. Inlet protection shall be implemented at all storm drain inlets and catch basins as indicated to prevent any sediment laden runoff from leaving the site. Inlet protection devices shall be removed during periods of above normal rainfall and replaced after the event has passed. For inlet protection details, see Sheet N-09.
7. The Contractor shall install fiber rolls as shown on plans.
8. Good housekeeping shall be utilized to ensure protection of roadways from mud, dirt, and debris.
9. The Contractor shall provide erosion control measures for their construction, staging, and storage areas and shall inspect and monitor his construction, staging, and storage areas to ensure that no non-storm water discharges are emitted. If such sources are identified the Contractor shall provide immediate mitigative measures.
10. No sediment laden runoff shall leave the site.
11. Water trucks shall be utilized to minimize the amount of airborne dust.
12. Contractor shall ensure the proper working order and conduct regular maintenance of all construction equipment. All construction equipment shall be serviced offsite and no oil or fuel shall be stored on the site.
13. The Contractor shall dispose of vegetation and equipment and hydraulic oils off-site.
14. At the end of the grading operation, existing catch basins and drain inlets surrounding the project site shall be inspected and any accumulated sediment and debris found shall be removed. Flushing into the catch basins or drain inlets is prohibited.
15. Grass shall be established on disturbed areas which are at final grade or will not be worked on for longer than 14 days. Alternatives to grass include 2" minimum straw mulch cover, erosion blankets with anchors, 6-mil plastic sheets, chemical soil stabilizer, sediment traps or ponds, or interceptor dikes/swales.
16. The Contractor shall designate a specific individual to be responsible for erosion and sediment controls on each project site.
17. Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation.
18. Construction shall be staged and phased for large projects. Areas of one phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily or permanently protecting the disturbed soil surface from rainfall impacts and runoff.
19. Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than 30 calendar days.
20. Storm water flowing toward the construction area shall be diverted by using appropriate control measures, as practical.
21. Water must be discharged in a manner that the discharge shall not cause or contribute to a violation of the basic water quality criteria as specified in the Hawaii Administrative Rules, Section 11-54-04.
22. All grading work shall be done in conformance with Chapter 14, Articles 13, 14, 15 and 16, as related to grading, soil erosion and sediment control, of the Revised Ordinances of Honolulu, 1990, as amended and applicable provisions of Chapter 54, Water Quality Standards and Chapter 55, Water Pollution Control, Title II, Administrative Rules of the State Department of Health.
23. The Contractor shall schedule construction during the dry weather periods and shall be prepared in case of rainfall events. The Contractor shall provide for temporary bypass or detention of storm water flows or other measures to avoid flooding of properties upstream or adjacent to the site.

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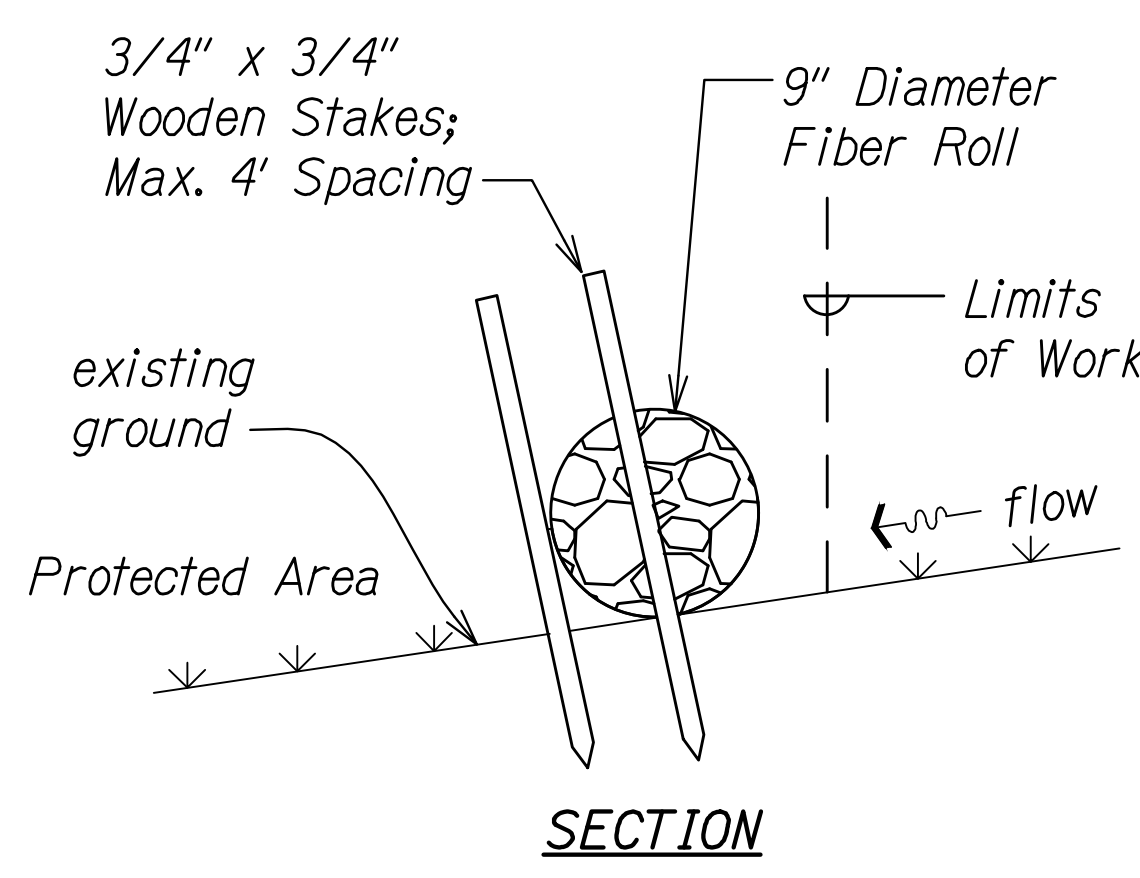
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	This work was prepared by me or under my supervision.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	11	41

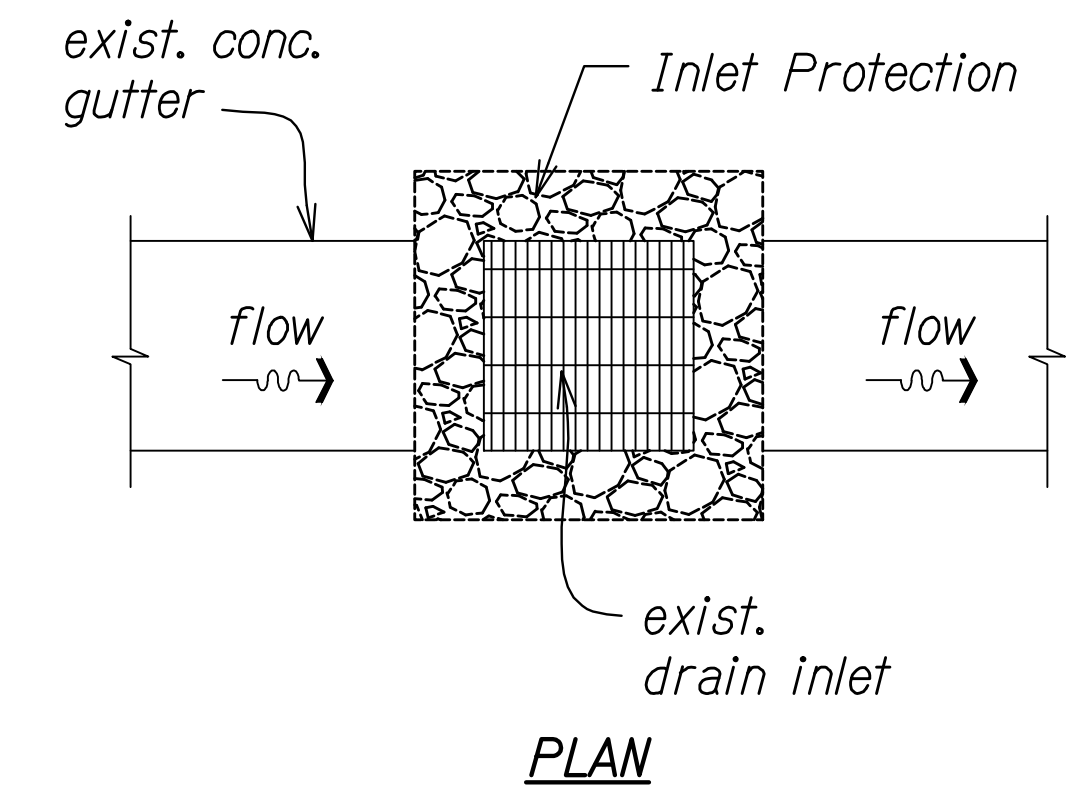


- PLAN**
- Note:**
1. Fiber roll shall meet the requirements of the State Construction BMP Field Manual, SC-8 Compost Filter Berm.
 2. Contractor shall remove debris behind fiber roll when it has reached one-half the height of the fiber roll.

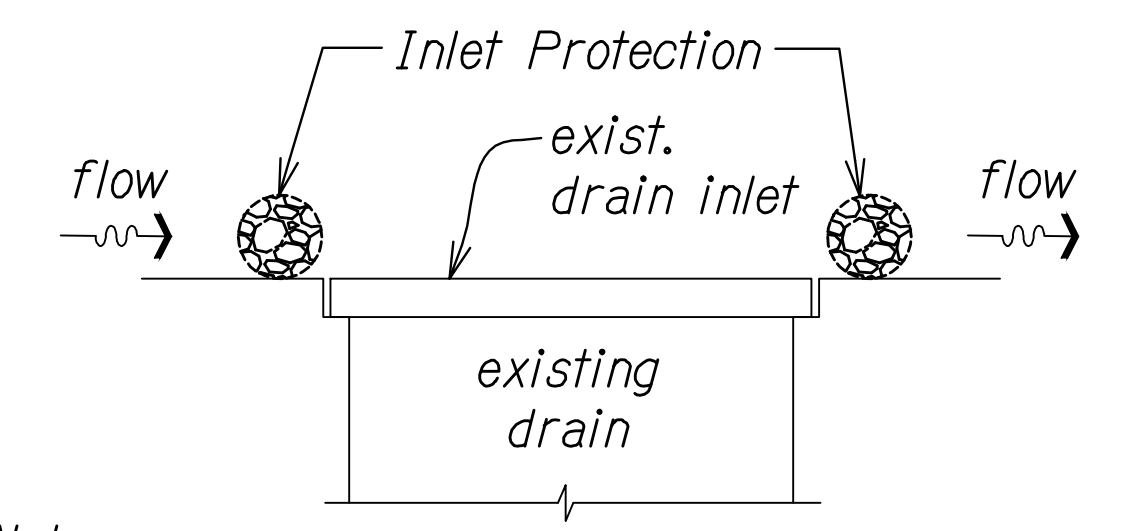
FIBER ROLL DETAIL
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SECTION



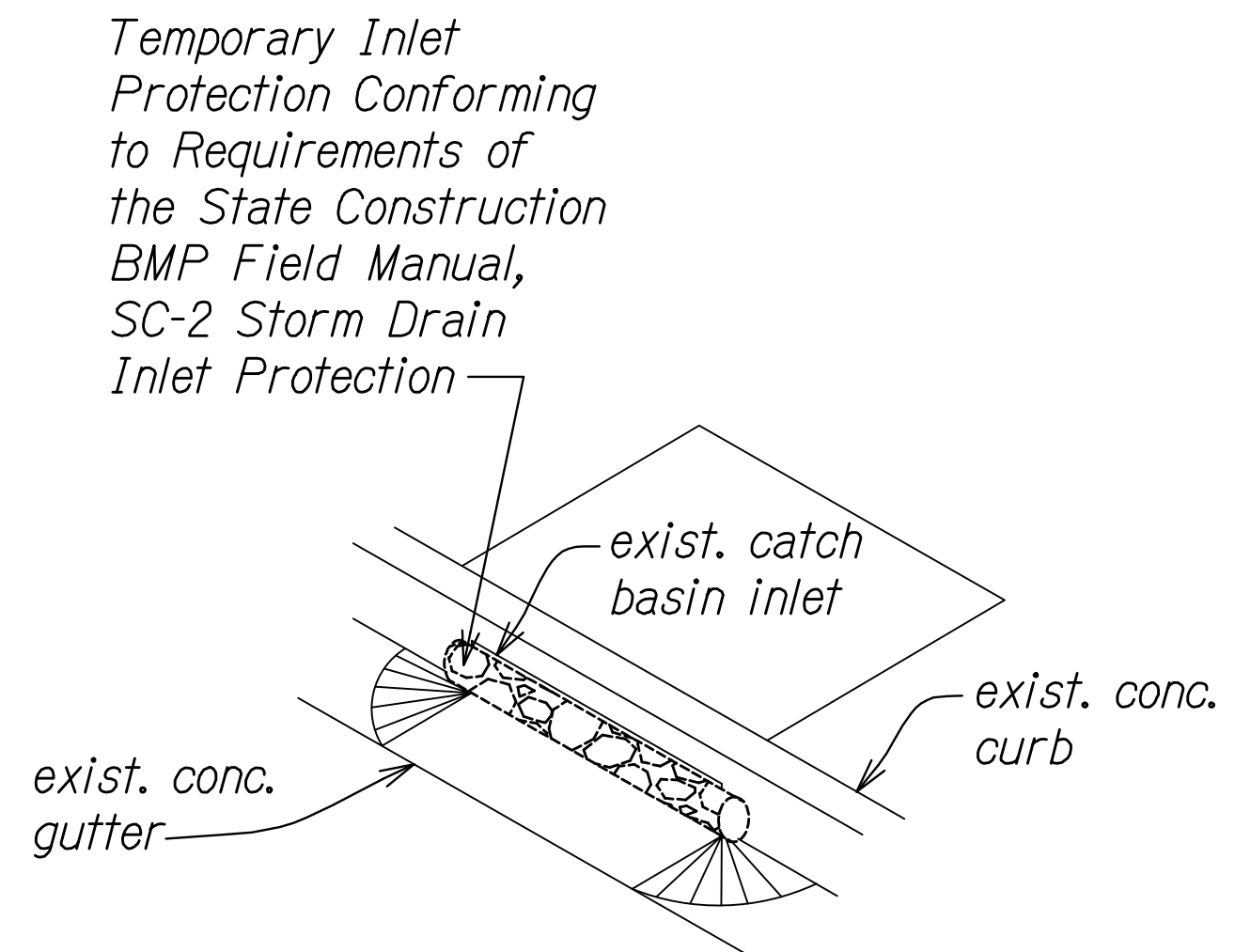
PLAN



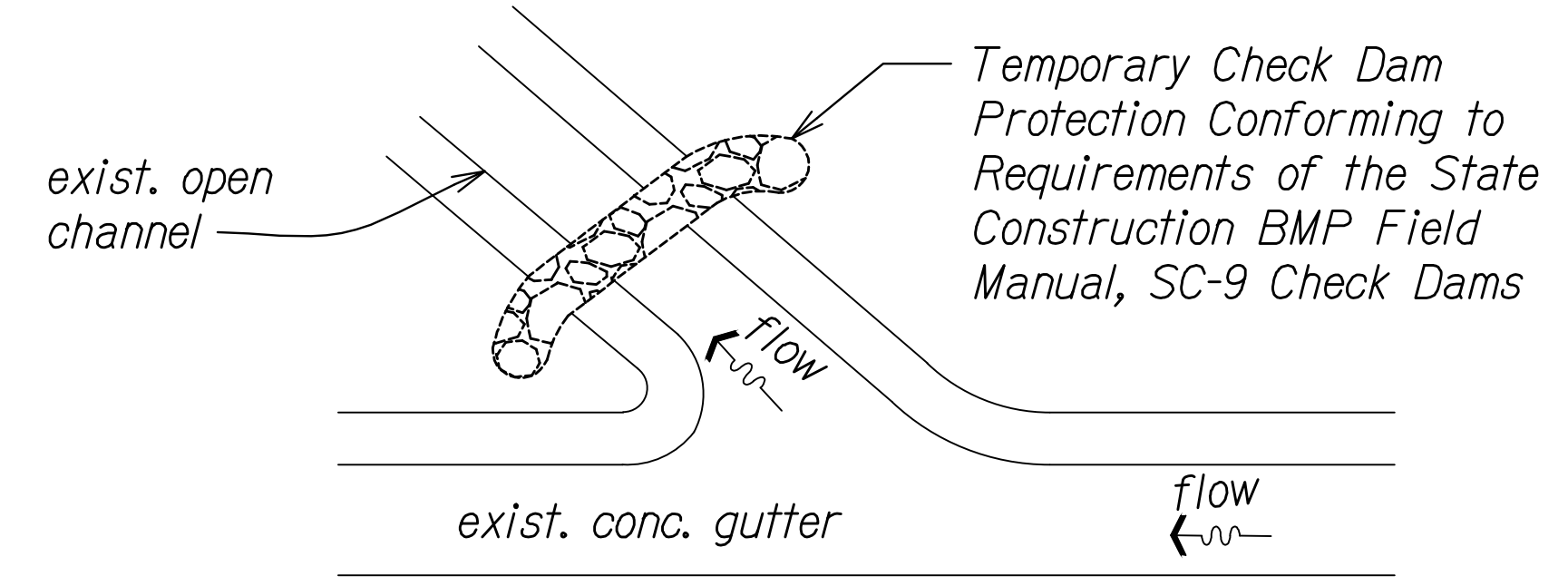
SECTION

DRAIN INLET PROTECTION
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Note:
Temporary inlet protection shall meet the requirements of the State Construction BMP Field Manual, SC-2 Storm Drain Inlet Protection.



CATCH BASIN PROTECTION
Not to Scale



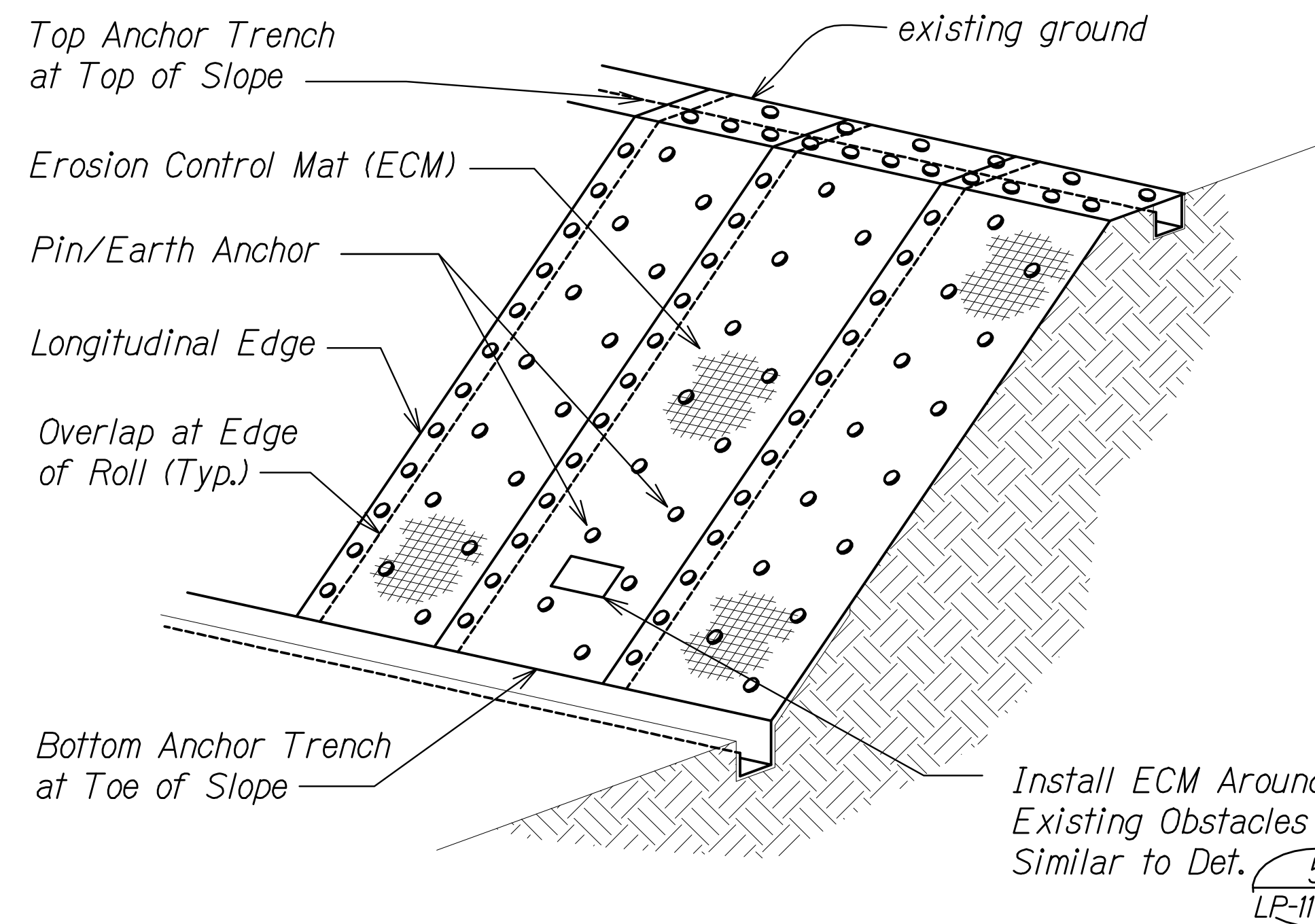
CHECK DAM DETAIL
Not to Scale

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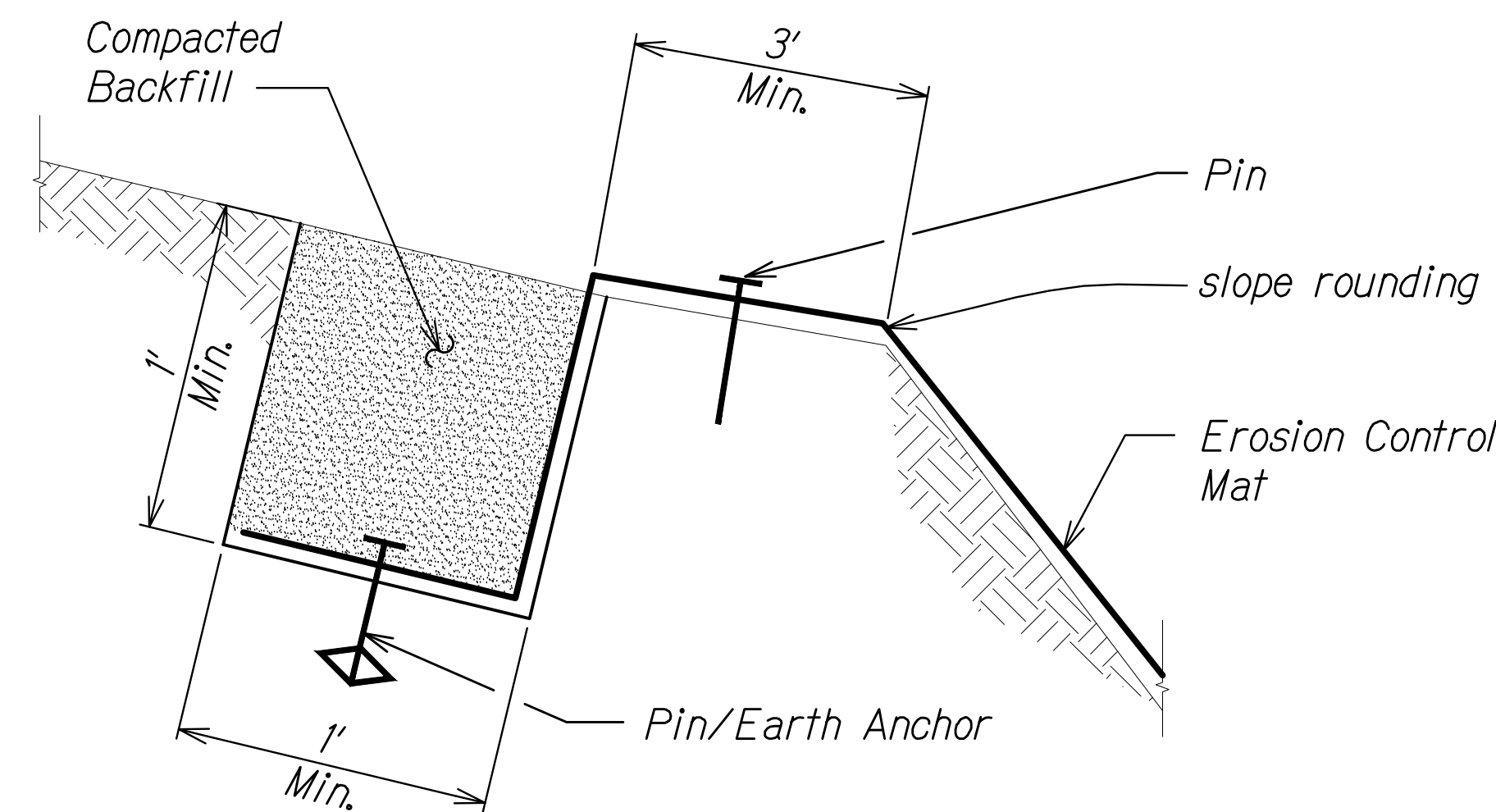
08 NOTES ECDWG: 4/17/2014 202556.PW

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WATER POLLUTION AND EROSION CONTROL NOTES SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: None Date: April 2014
	SHEET No. N-08 OF 8 SHEETS

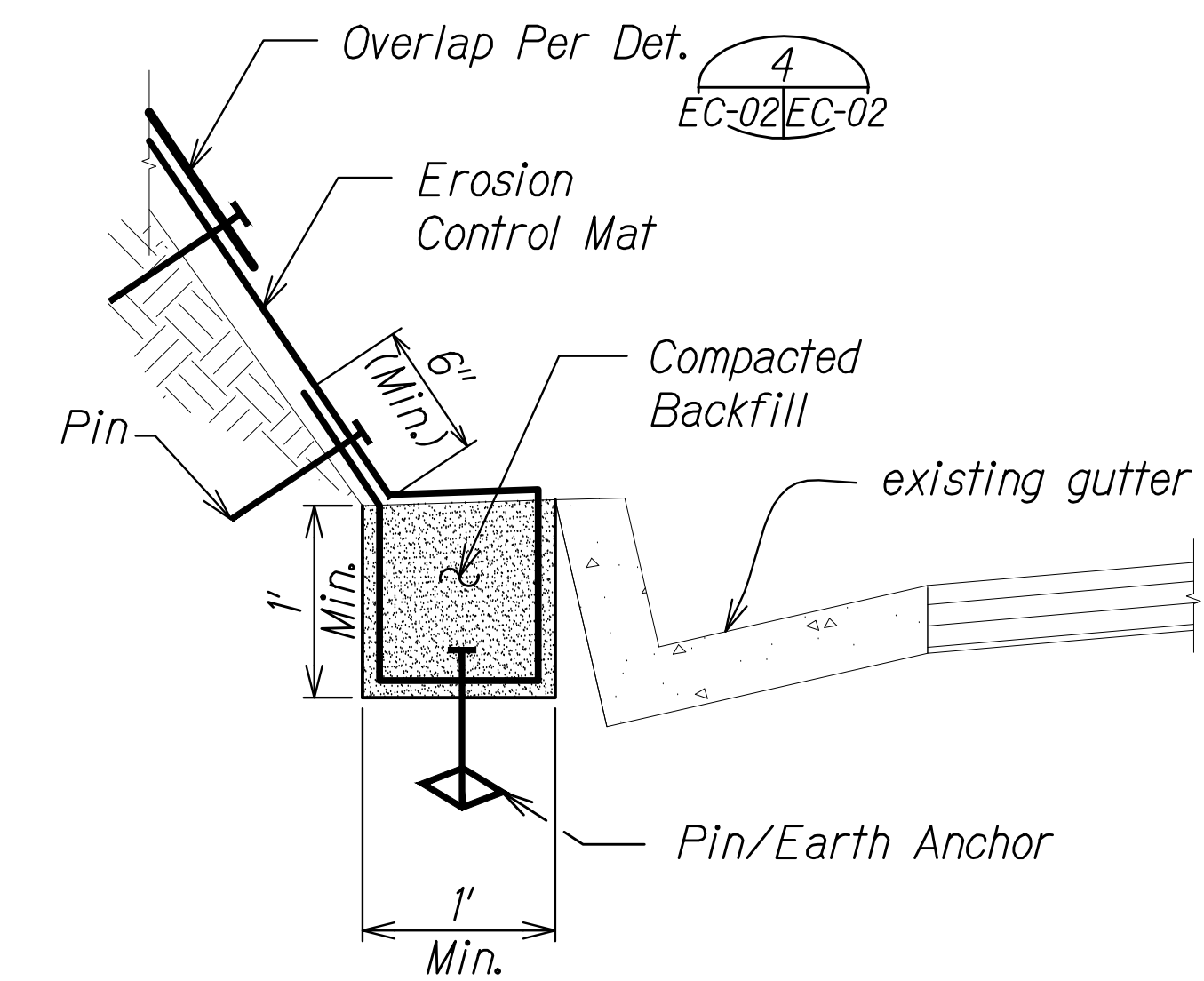
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	12	41



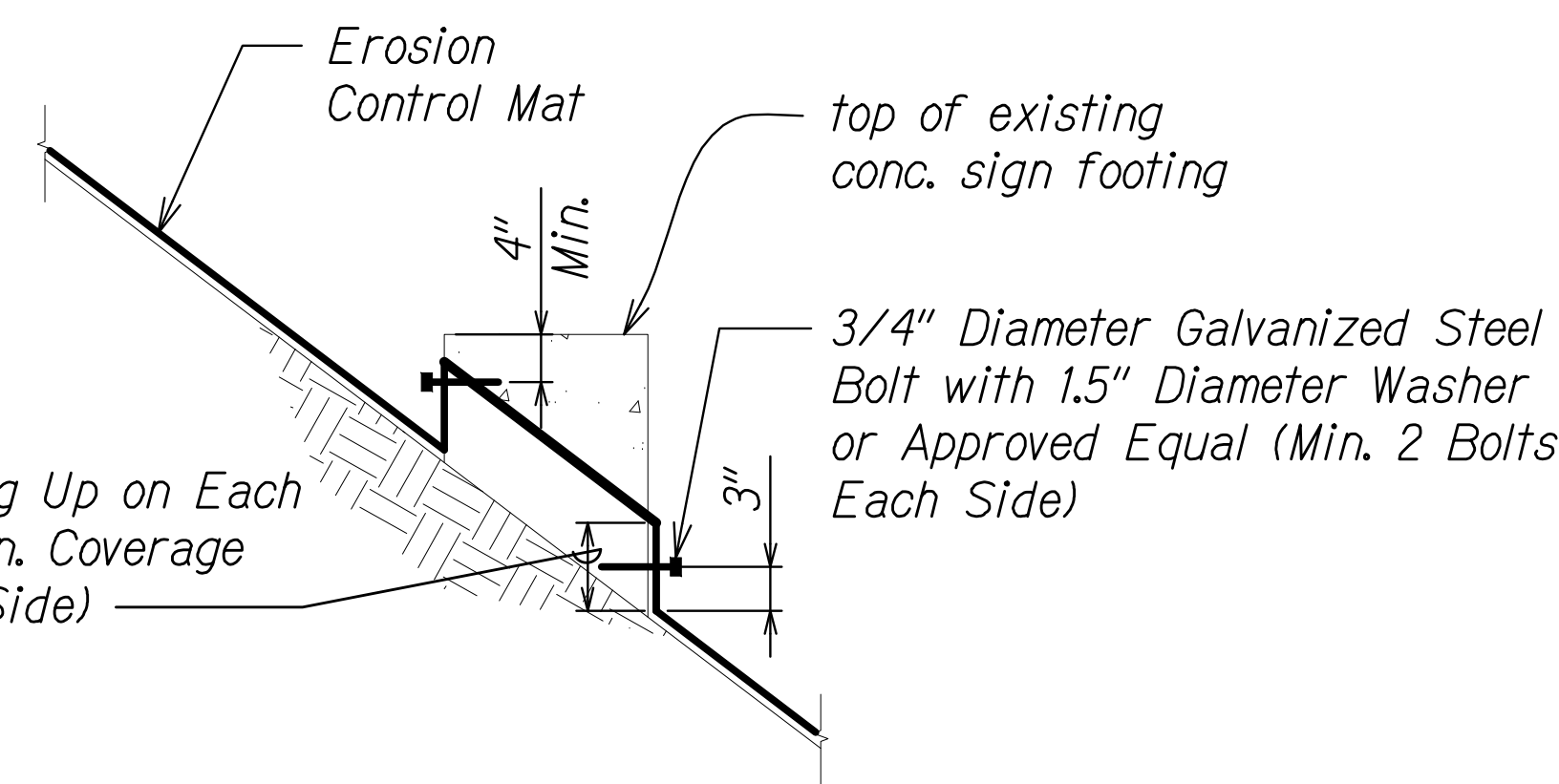
OVERVIEW OF EROSION CONTROL MATTING SYSTEM
Scale: Not to Scale



TOP ANCHOR TRENCH AT TOP OF SLOPE DETAIL
Scale: Not to Scale

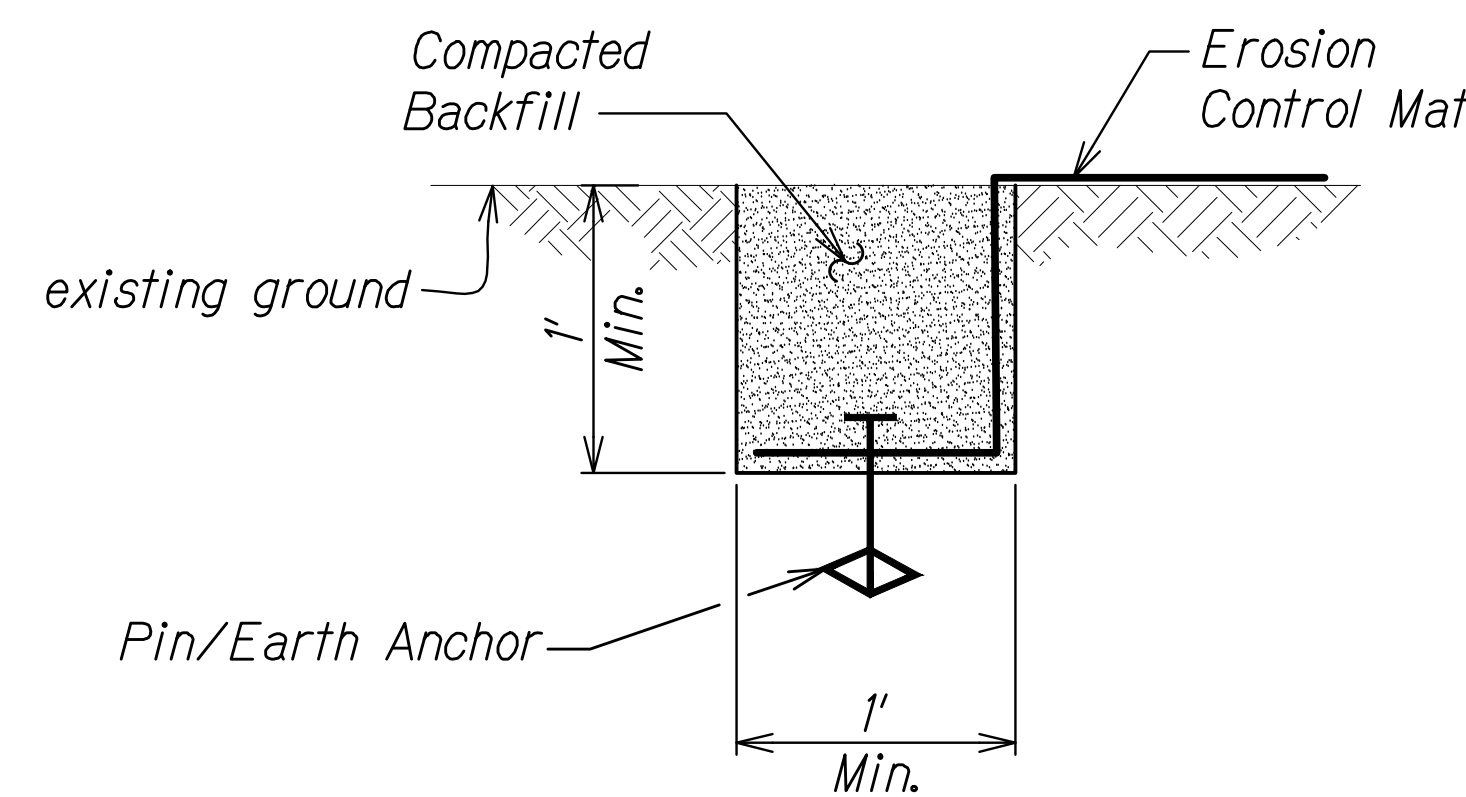


BOTTOM ANCHOR TRENCH DETAIL
Scale: Not to Scale



- Notes:**
- Bolts shall be embedded a minimum of 3" into concrete.
 - Matting shall be placed and secured in direct contact with the finish grade.

TYPICAL SECTION AROUND EXISTING CONCRETE SIGN FOOTINGS
Scale: Not to Scale



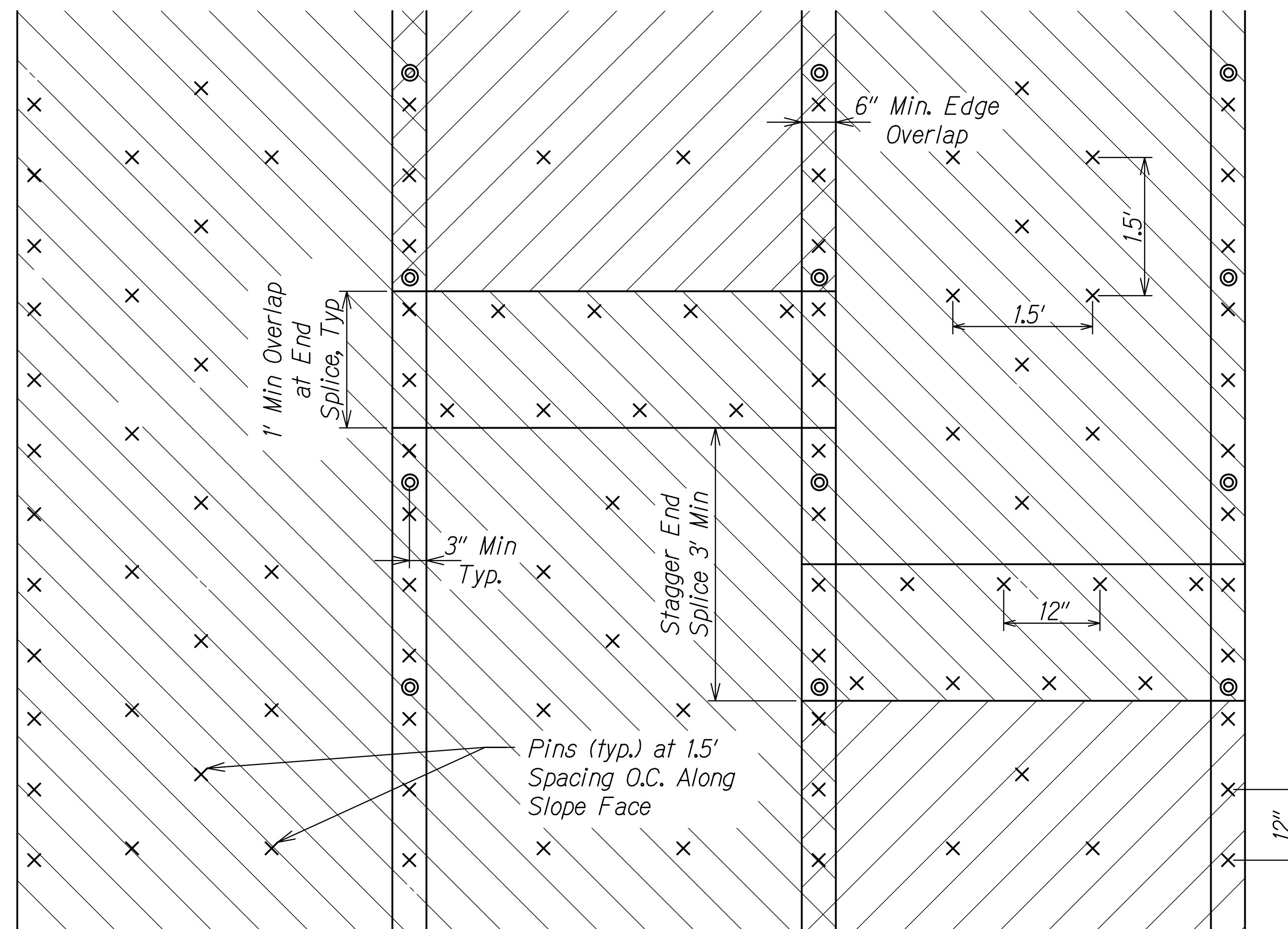
LONGITUDINAL EDGE TRENCH DETAIL
Scale: Not to Scale

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EC-01 EROSION CONTROL MATTING DETAILS LONG 4/15/2014 12:55:42 PM

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<p align="center">TYPICAL DETAILS EROSION CONTROL MATTING</p> <p align="center">SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6</p> <p align="center">Project No. HWY-O-05-14</p> <p align="center">Scale: Not to Scale Date: April 2014</p>

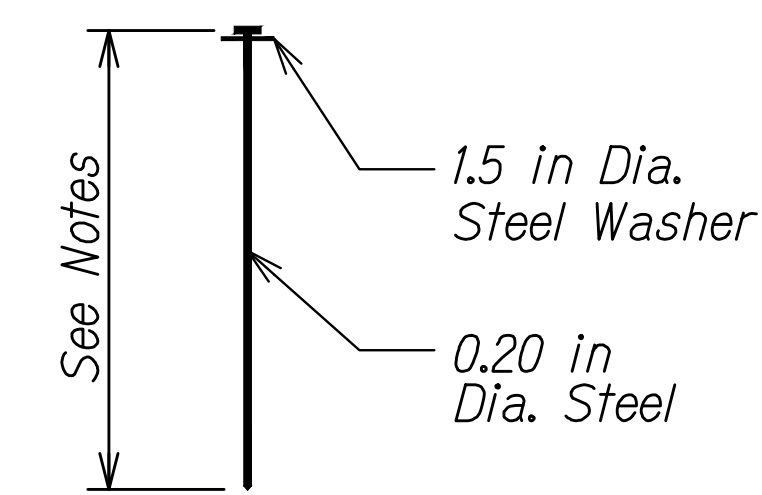
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	13	41



TYPICAL EROSION CONTROL MAT AND PIN LAYOUT
Scale: Not to Scale 1
EC-02/EC-02

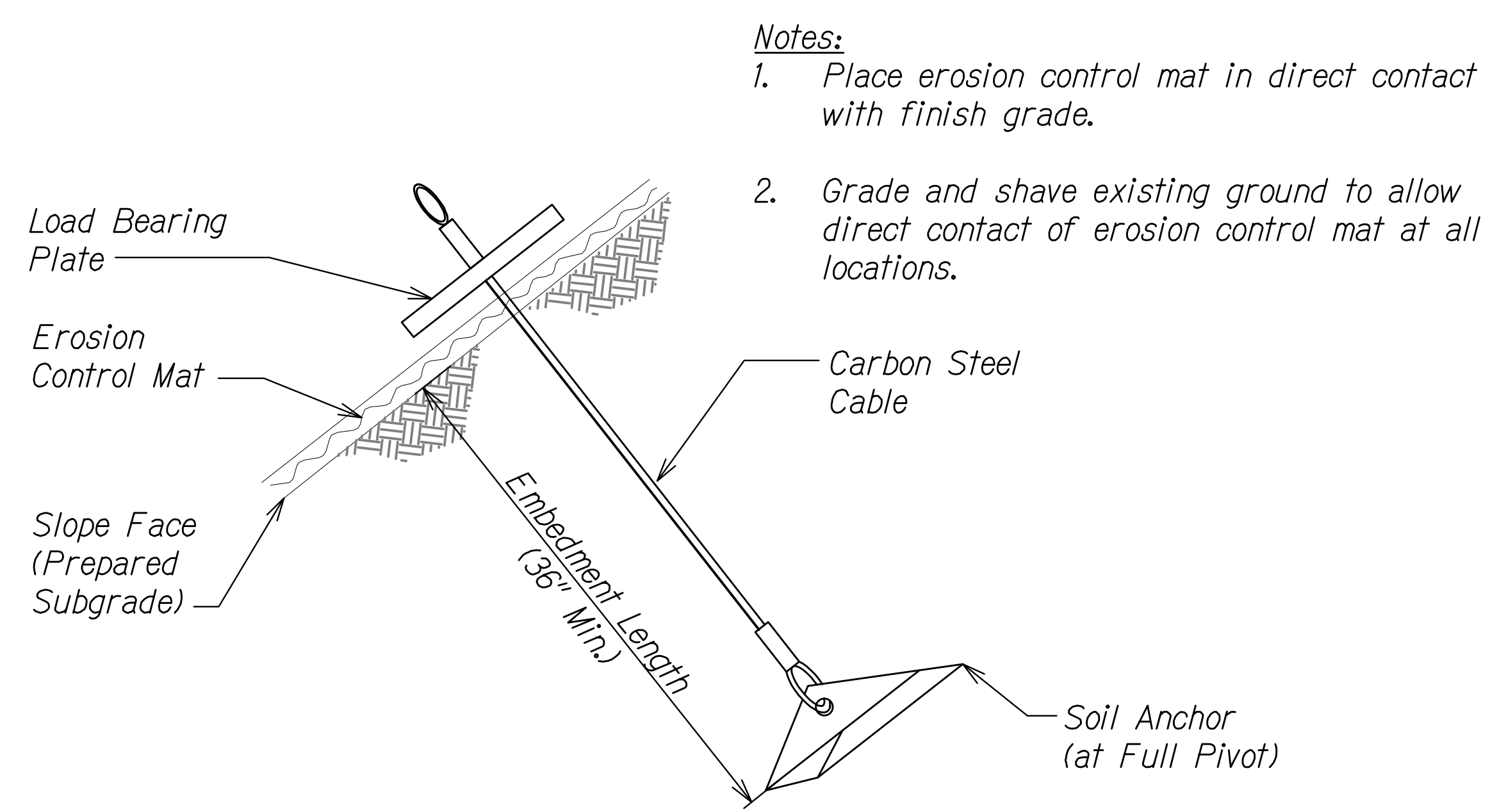
Pin Spacing		
Fastener Type	Along Slope Face	Top, Bottom & Edge Trenches
Pin	1.5'	1'
Earth Anchor	-	4'

- Notes:**
- Secure all erosion control mat edges with pins at the spacing indicated.
 - For slopes 3H:4V or flatter, no ECM required.
 - Earth anchors in trenches should extend a minimum depth of 3' from slope face.



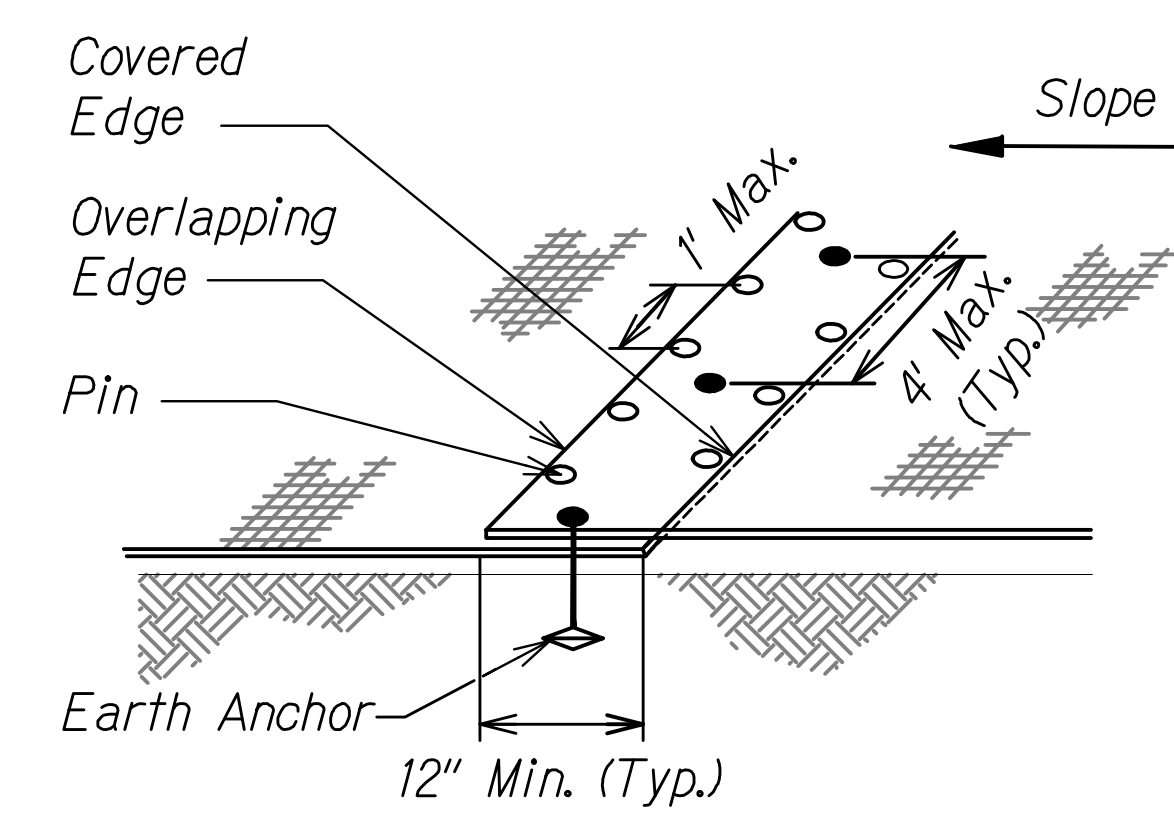
- Notes:**
- For clayey soils, pins shall be a minimum of 12" in length.
 - For sandy soils, pins shall be a minimum of 18" in length.

PIN DETAIL
Scale: Not to Scale 2
EC-02/EC-02



- Notes:**
- Place erosion control mat in direct contact with finish grade.
 - Grade and shave existing ground to allow direct contact of erosion control mat at all locations.

EARTH ANCHOR DETAIL
Scale: Not to Scale 3
EC-02/EC-02



OVERLAP END DETAIL
Scale: Not to Scale 4
EC-02/EC-02

4/30/16
EXP. DATE

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
EROSION CONTROL MATTING

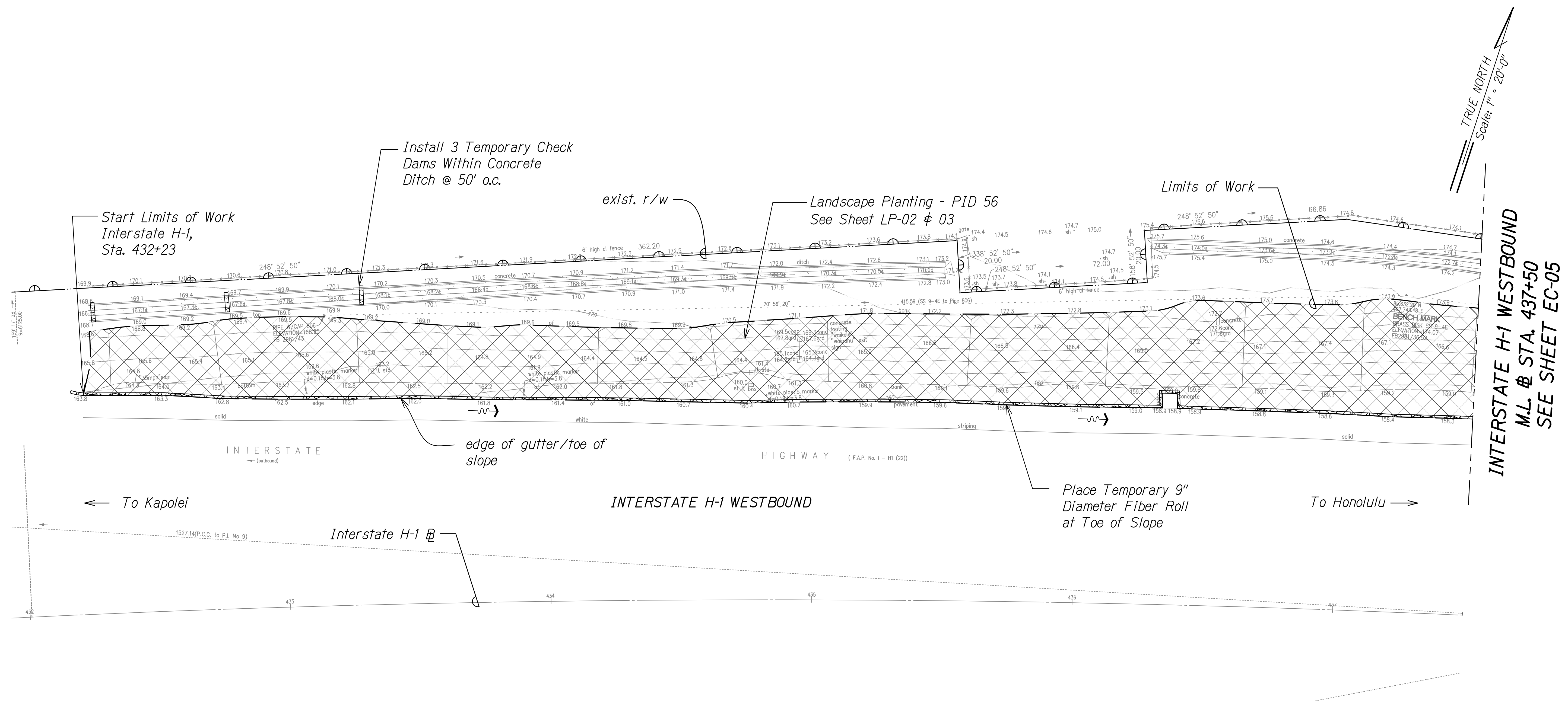
SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6

Project No. HWY-O-05-14
Scale: Not to Scale Date: April 2014

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EC-02 EROSION CONTROL MATTING DETAILS ZONE: 4/9/2014 9:50:20 AM

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	15	41



TRUE NORTH
 Scale: 1" = 20'-0"
 INTERSTATE H-1 WESTBOUND
 M.L. # STA. 437+50
 SEE SHEET EC-05

EROSION CONTROL PLAN PID 56

Scale: 1" = 20'-0"

Notes:

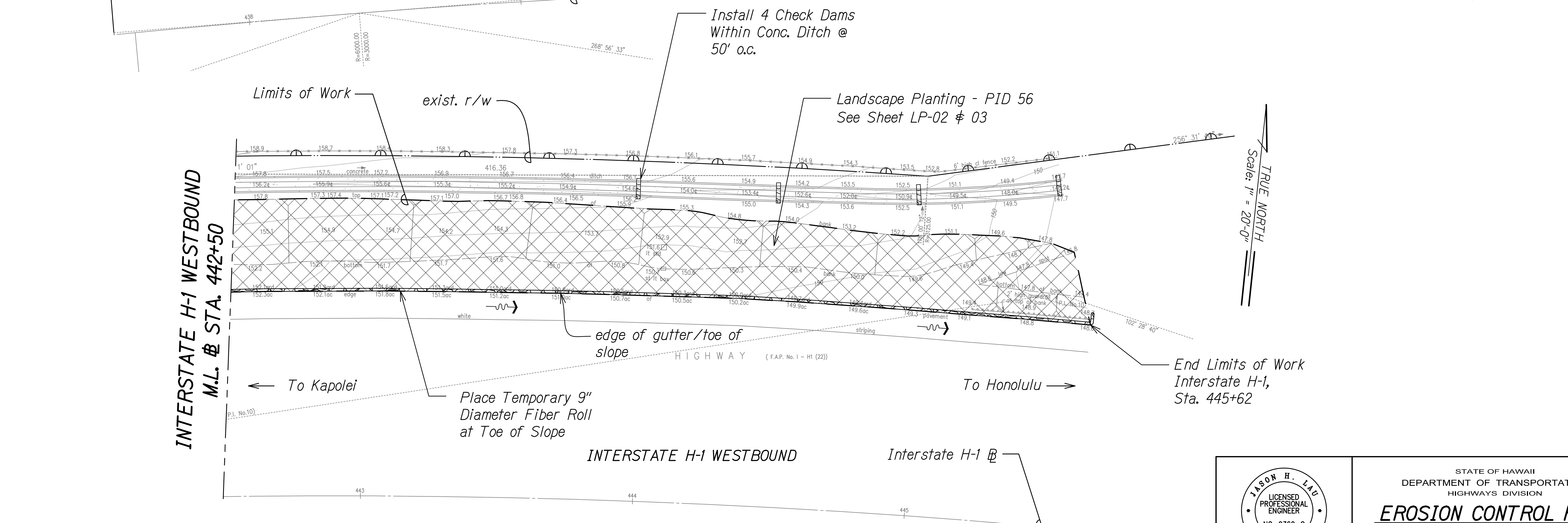
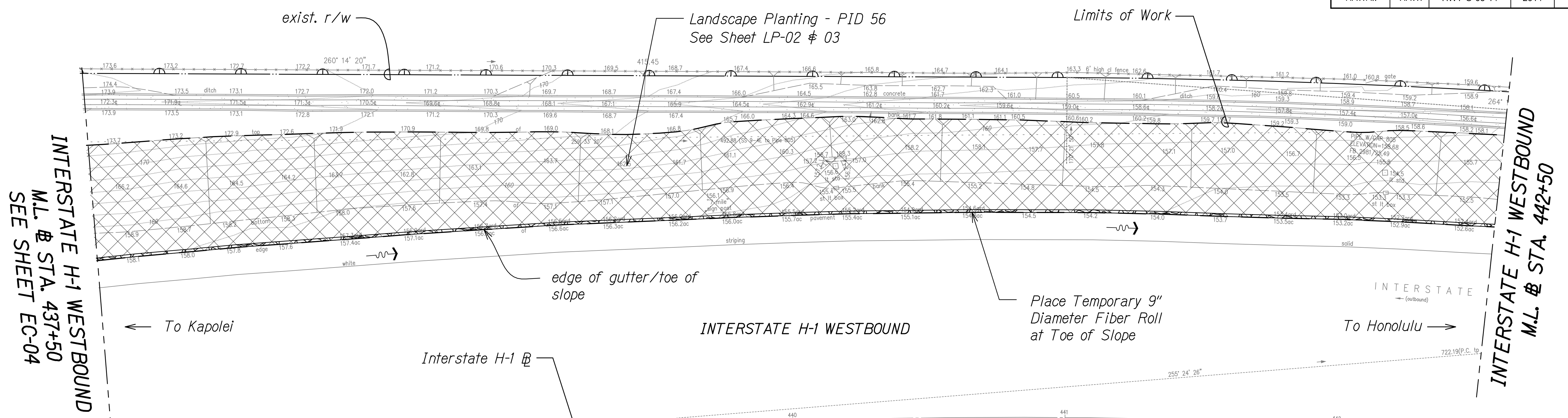
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-02 # 03.
2. For erosion mat details, see Sheets EC-01 # 02.

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NOTE BOOK	
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<p>JASON H. LAU LICENSED PROFESSIONAL ENGINEER NO. 9360-C HAWAII USA</p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<p>EROSION CONTROL PLAN PID 56</p>
	<p>SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14</p>
	<p>Scale: 1" = 20' Date: April 2014</p>

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	16	41



- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-02 # 03.
 2. For erosion mat details, see Sheets EC-01 # 02.

EROSION CONTROL PLAN PID 56
Scale: 1" = 20'-0"

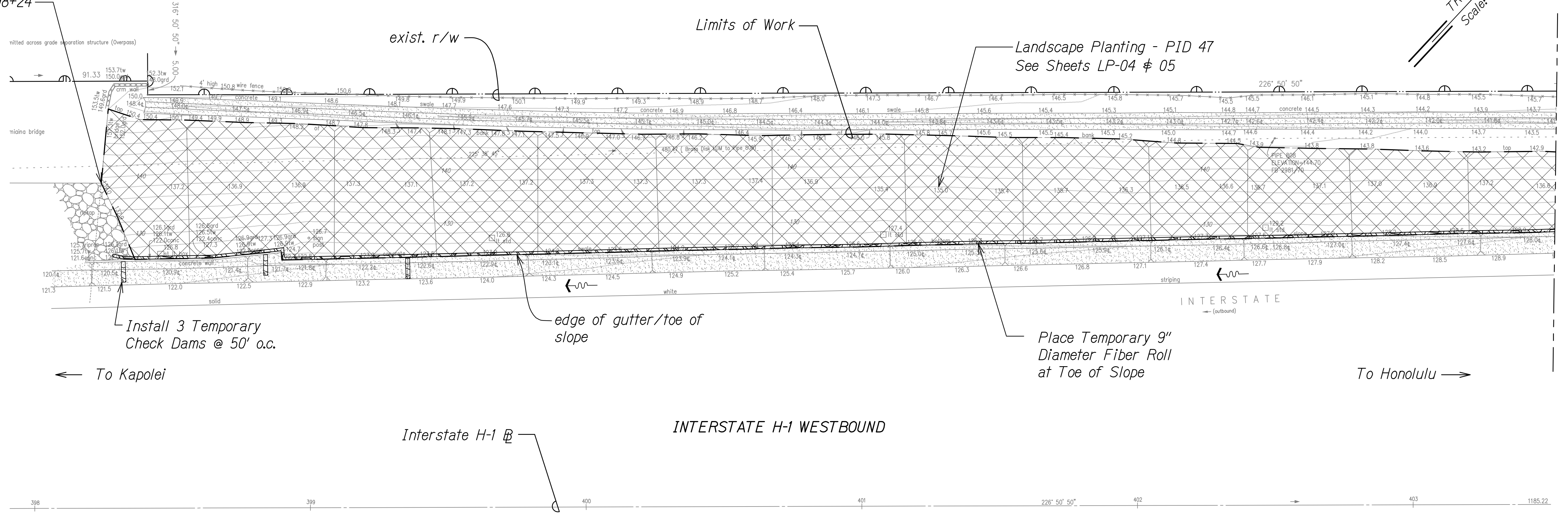
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	<u>EROSION CONTROL PLAN</u>
	<u>PID 56</u>
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014
4/30/16 EXP. DATE	SHEET No. EC-05 OF 13 SHEETS

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ORIGINAL PLAN	
NOTE BOOK	
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	17	41

Start Limits of Work
Interstate H-1,
Sta. 398+24



TRUE NORTH
Scale: 1" = 20'-0"

INTERSTATE H-1 WESTBOUND
M.L. @ STA. 403+50
SEE SHEET EC-07

← To Kapolei

To Honolulu →

Interstate H-1 @

INTERSTATE H-1 WESTBOUND

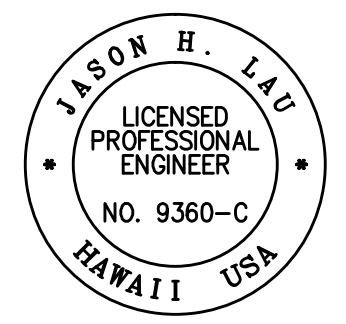
EROSION CONTROL PLAN PID 47

Scale: 1" = 20'-0"

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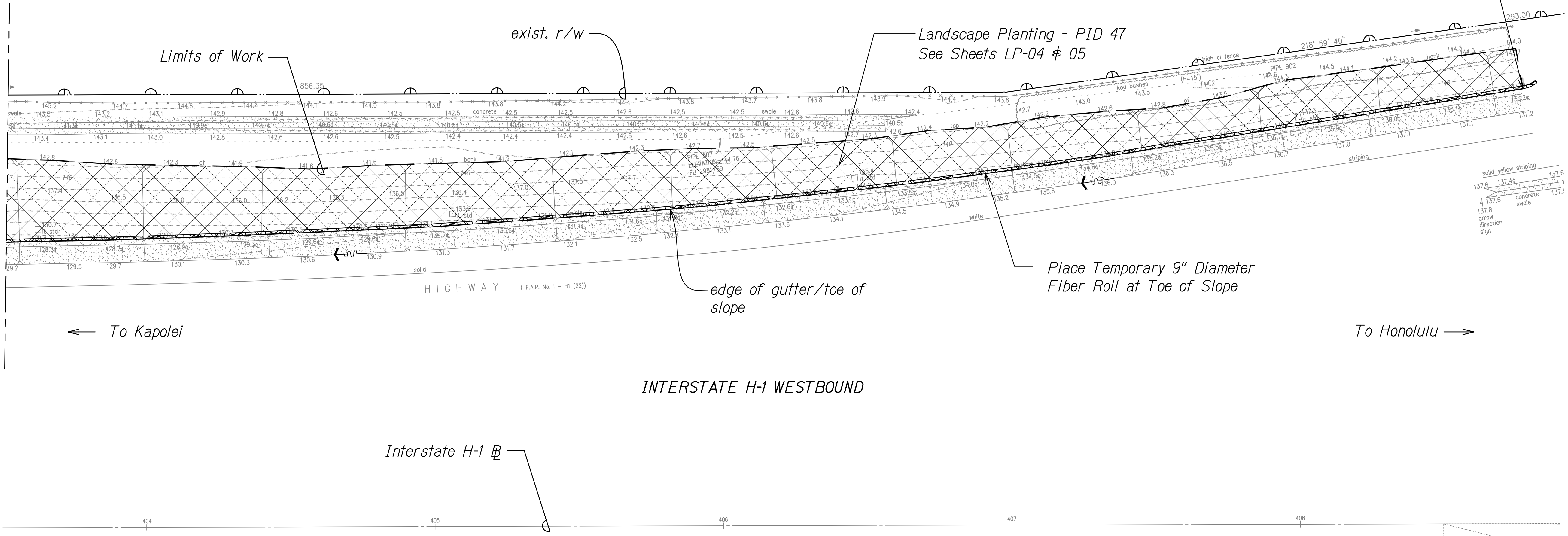
Notes:

1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-04 & 05.
2. For erosion mat details, see Sheets EC-01 & 02.

 <p>4/30/16 EXP. DATE</p> <p><small>This work was prepared by me or under my supervision.</small></p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>EROSION CONTROL PLAN</u> <u>PID 47</u>
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014
	SHEET No. EC-06 OF 13 SHEETS
	17

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	18	41

INTERSTATE H-1 WESTBOUND
M.L. @ STA. 403+50
SEE SHEET EC-06



End Limits of Work
Interstate H-1,
Sta. 408+77

TRUE NORTH
Scale: 1" = 20'-0"

← To Kapolei

To Honolulu →

INTERSTATE H-1 WESTBOUND

Interstate H-1

EROSION CONTROL PLAN PID 47

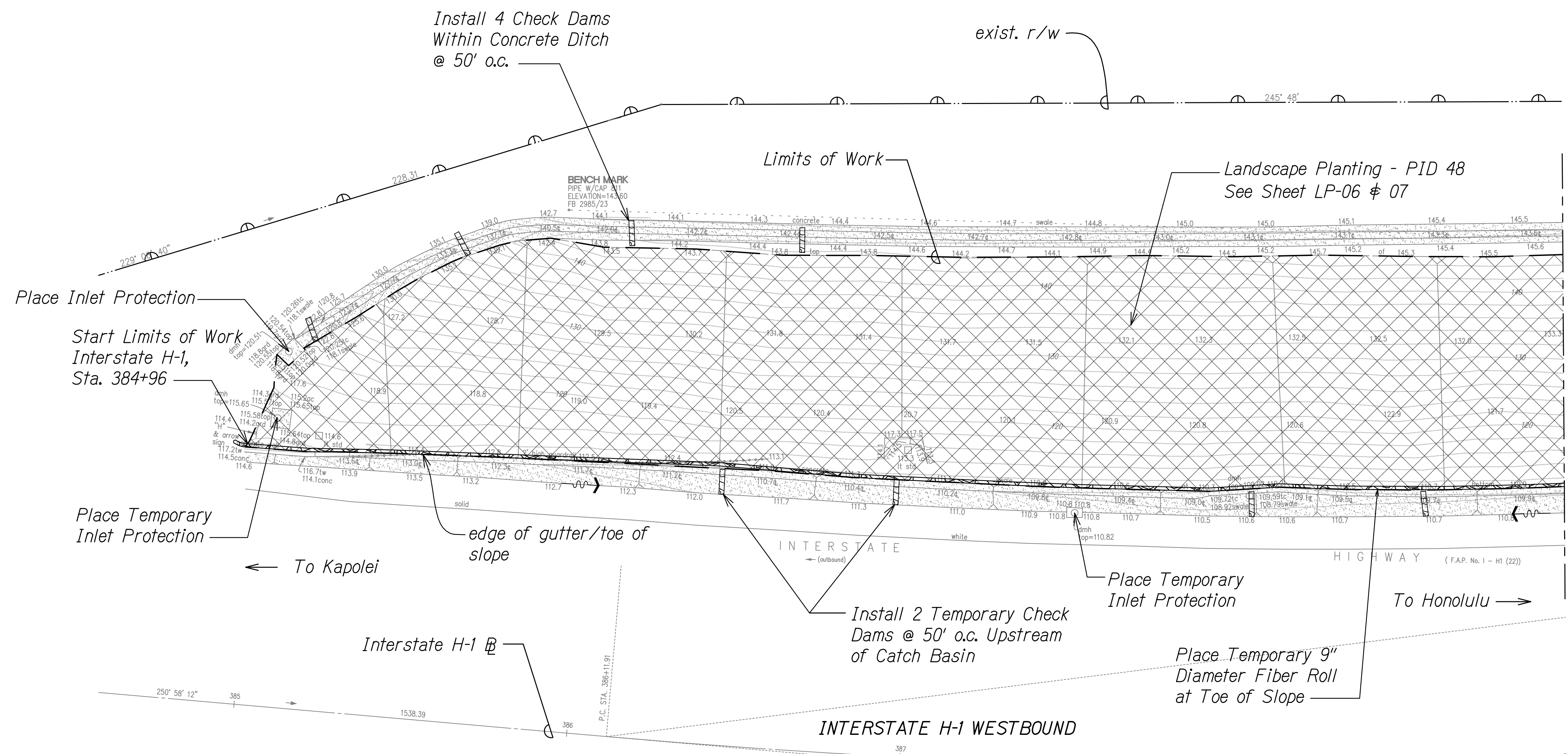
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- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-04 & 05.
 2. For erosion mat details, see Sheets EC-01 & 02.

<p>JASON H. LAU LICENSED PROFESSIONAL ENGINEER NO. 9360-C HAWAII USA</p>	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>EROSION CONTROL PLAN</u> <u>PID 47</u>
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014
	SHEET No. EC-07 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	19	41



TRUE NORTH
 Scale: 1" = 20'-0"
INTERSTATE H-1 WESTBOUND
M.L. @ STA. 389+00
SEE SHEET EC-09

EROSION CONTROL PLAN PID 48
 Scale: 1" = 20'-0"

Notes:

1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-06 # 07.
2. For erosion mat details, see Sheets EC-01 # 02.

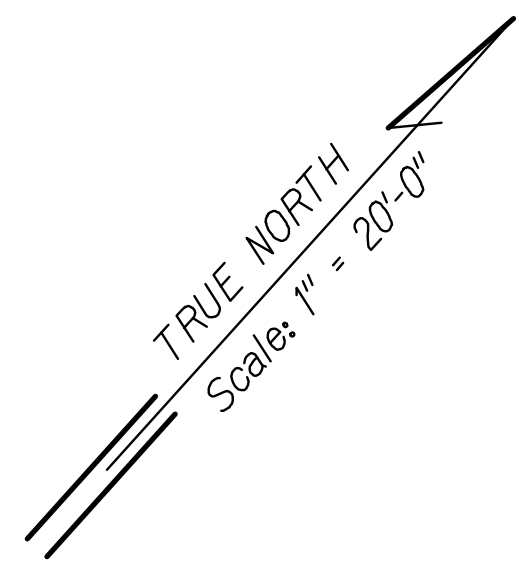
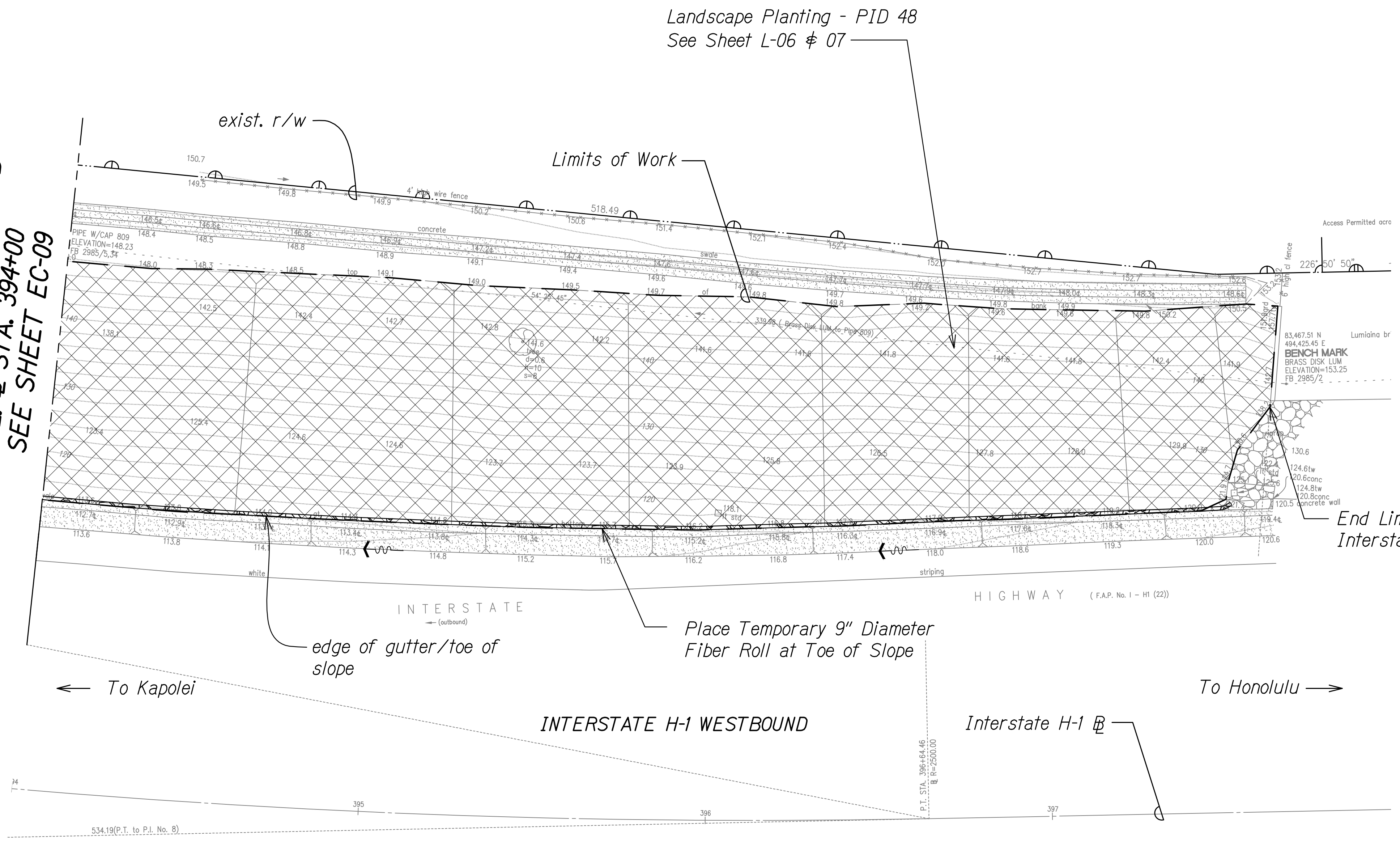
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	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<u>EROSION CONTROL PLAN</u>
	<u>PID 48</u>
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-0-05-14 Scale: 1" = 20' Date: April 2014
4/30/16 EXP. DATE	SHEET No. EC-08 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	21	41

INTERSTATE H-1 WESTBOUND
M.L. # STA. 394+00
SEE SHEET EC-09



EROSION CONTROL PLAN PID 48
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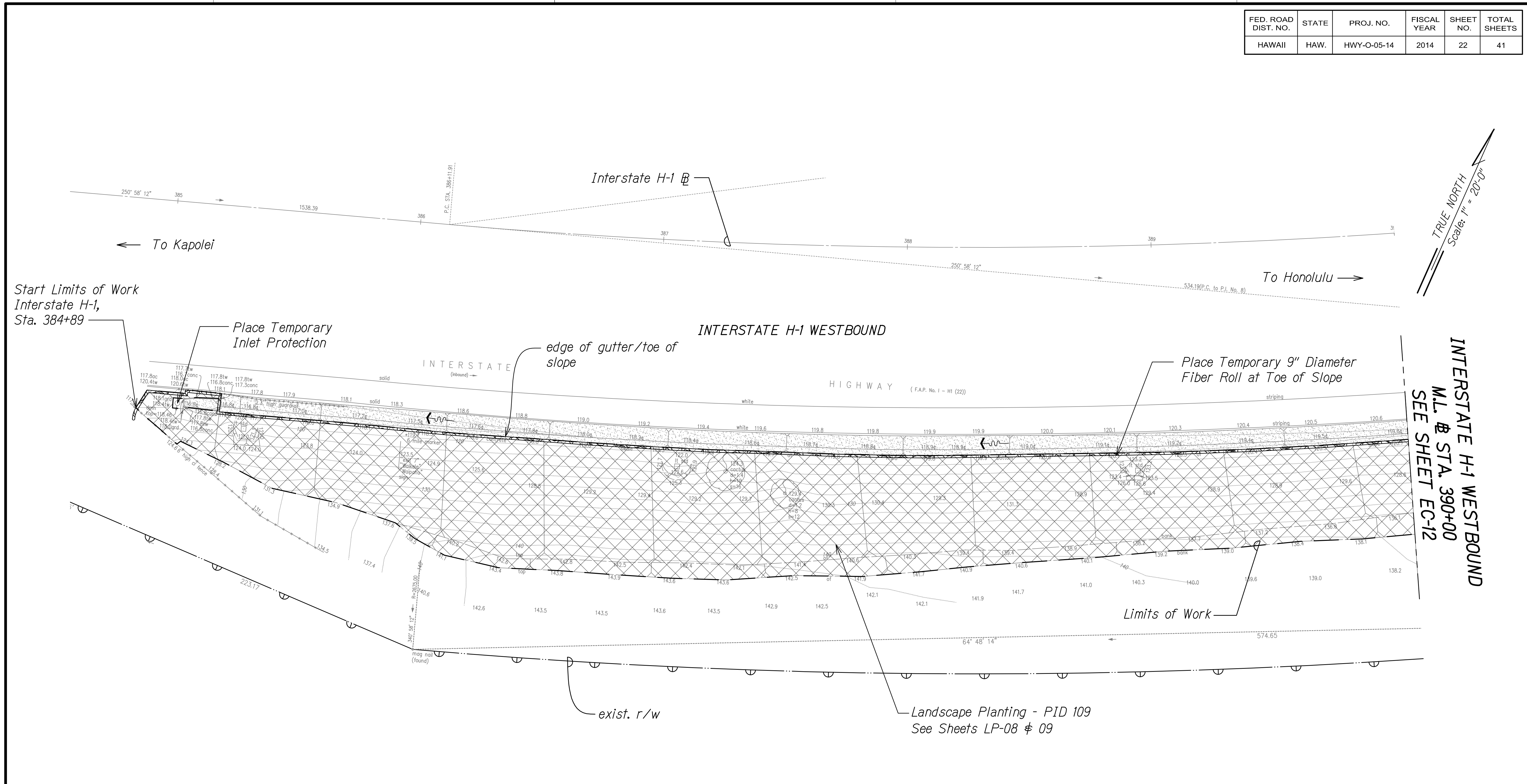
- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-06 # 07.
 2. For erosion mat details, see Sheets EC-01 # 02.

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	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	<u>EROSION CONTROL PLAN</u> <u>PID 48</u>
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014
4/30/16 EXP. DATE <small>This work was prepared by me or under my supervision.</small>	SHEET No. EC-10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	22	41



TRUE NORTH
Scale: 1" = 20'-0"

INTERSTATE H-1 WESTBOUND
M.L. @ STA. 390+00
SEE SHEET EC-12

EROSION CONTROL PLAN PID 109
Scale: 1" = 20'-0"

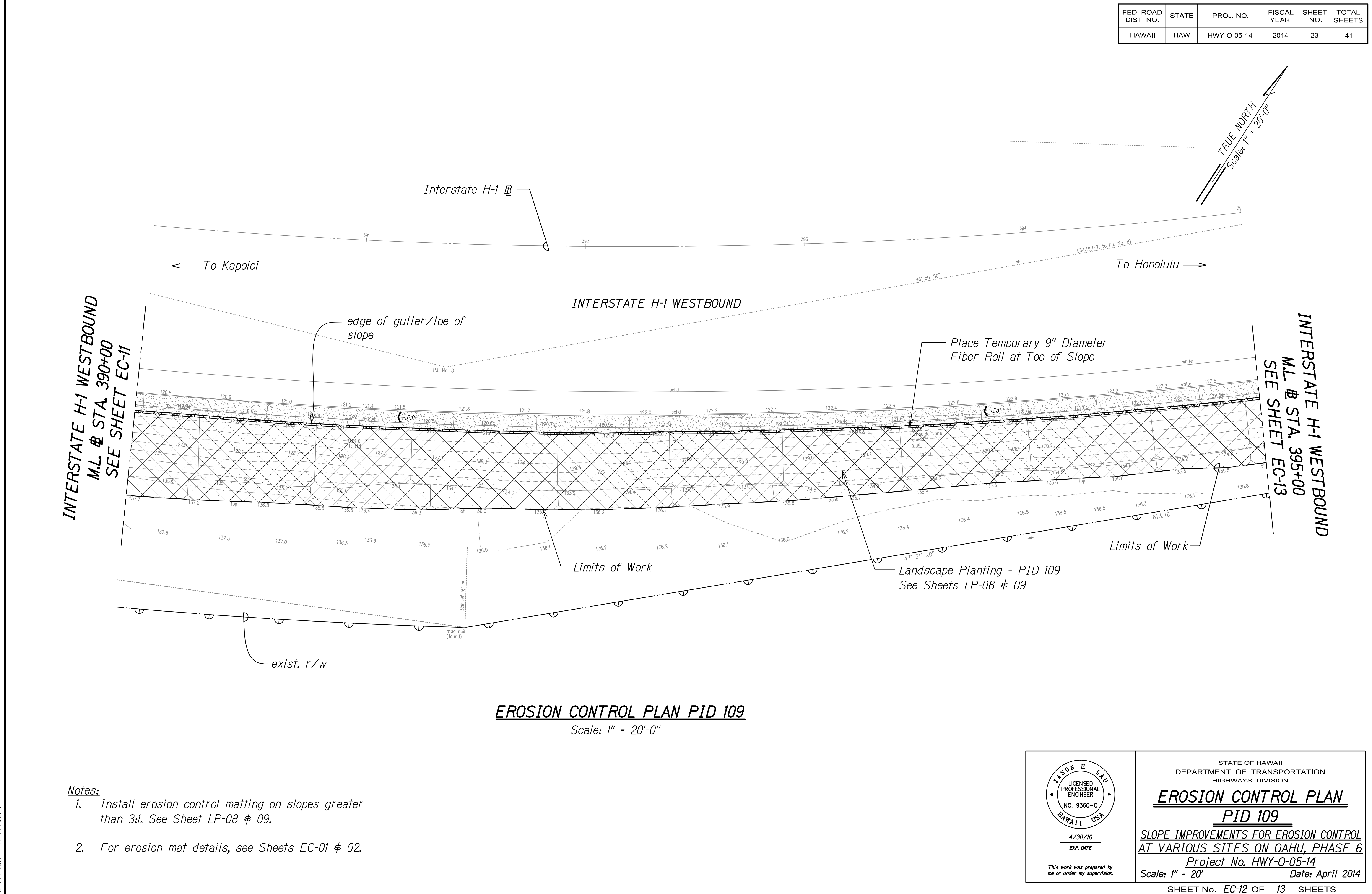
- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-08 # 09.
 2. For erosion mat details, see Sheets EC-01 # 02.

<p>JASON H. LAU LICENSED PROFESSIONAL ENGINEER NO. 9360-C HAWAII USA</p>	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>EROSION CONTROL PLAN PID 109</p> <p>SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6</p> <p>Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014</p>
	<p>4/30/16 EXP. DATE</p> <p><small>This work was prepared by me or under my supervision.</small></p>

SURVEY PLOTTED BY _____	DATE _____
DRAWN BY _____	
DESIGNED BY _____	
QUANTITIES BY _____	
CHECKED BY _____	
ORIGINAL PLAN _____	
NOTE BOOK _____	
NO. _____	

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	23	41



INTERSTATE H-1 WESTBOUND
 M.L. # STA. 390+00
 SEE SHEET EC-11

INTERSTATE H-1 WESTBOUND
 M.L. # STA. 395+00
 SEE SHEET EC-13

EROSION CONTROL PLAN PID 109
 Scale: 1" = 20'-0"

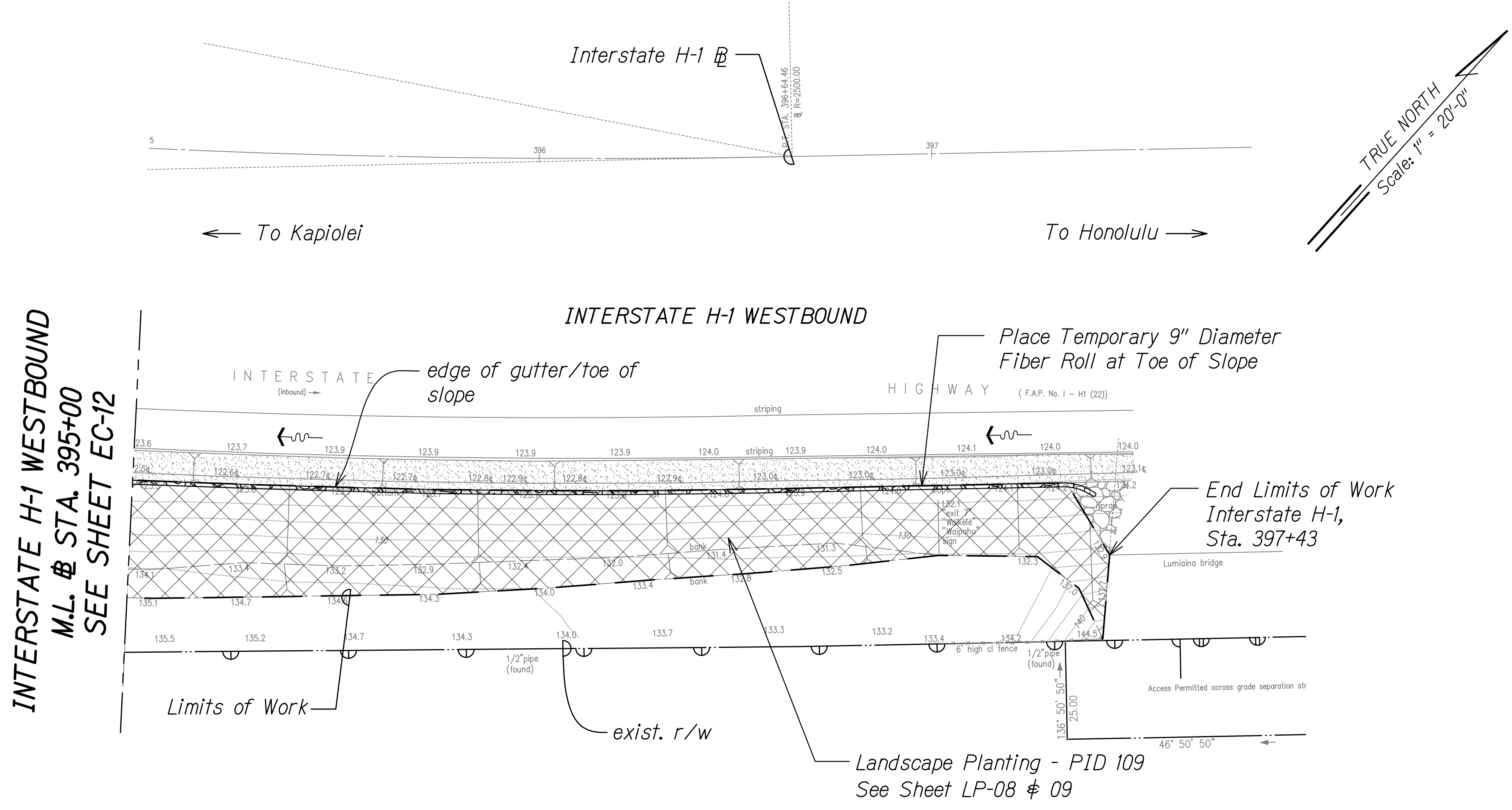
- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-08 # 09.
 2. For erosion mat details, see Sheets EC-01 # 02.

SURVEY PLOTTED BY	DATE
DESIGNED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

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	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	EROSION CONTROL PLAN PID 109
	SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14
	Scale: 1" = 20' Date: April 2014

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-05-14	2014	24	41



EROSION CONTROL PLAN PID 109
 Scale: 1" = 20'-0"

- Notes:**
1. Install erosion control matting on slopes greater than 3:1. See Sheet LP-08 # 09.
 2. For erosion mat details, see Sheets EC-01 # 02.

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

ECP PID 09.DWG 4/9/2014 12:53:54 PM

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>EROSION CONTROL PLAN</u> <u>PID 109</u> SLOPE IMPROVEMENTS FOR EROSION CONTROL AT VARIOUS SITES ON OAHU, PHASE 6 Project No. HWY-O-05-14 Scale: 1" = 20' Date: April 2014
	4/30/16 EXP. DATE <small>This work was prepared by me or under my supervision.</small>
	SHEET No. EC-13 OF 13 SHEETS