

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	47	71

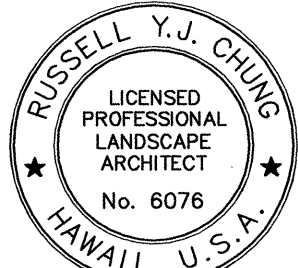
PLANT NOTES:

- Contractor shall field verify all plant quantities and dimensions prior to installation. Contractor shall determine quantities of plant materials to be provided. In all cases, Contractor shall install plant material on all areas affected by construction.
- Contractor shall be responsible for locating and protecting existing utilities.
- Prior to excavating for ground cover planting pits, all planting locations shall be staked out by Contractor for acceptance by Engineer. Do not plant until ground has been prepared and site is neat, orderly, and the Engineer accepts site for planting.
- Notify Engineer of any discrepancies in plant locations.
- Notify Engineer 30 days prior to planting operations for acceptance of all plant material at place of growth. All plant material not accepted by the Engineer will be subject to rejection.
- The Engineer will inspect plants at the place of growth and after delivery to the project.
- Plants shall meet size indicated. Plants shall be straight and uniformly shaped, unless unique or special characteristics are specified, and shall be undamaged, sound, healthy, vigorous and free of disease and insect infestation. Plants not conforming to these requirements on delivery to the project and at the end of the plant establishment period will be rejected.
- Contractor shall be solely responsible for the complete removal and damages resulting from planting any plant species listed on the Hawaii Department of Agriculture 'Noxious Weed Rules' as defined in the statute, Hawaii Administrative Rules 4:68:1 or the 'Federal Noxious Weed List' as defined in Title 7 of the Code of Federal Regulations (CFR), parts 360 and 361.
- All tree work must adhere to American National Standard Institute (or ANSI) - a300 Tree Care Standards and ANSI-z133 safety standards for tree work. Work shall be contracted to arborists that has been certified in good standings as an ISA certified arborist for at least 5 years to assure that tree work is performed properly and trees are not damaged by practices such as topping, flush cuts, over-thinning, or climbing with spikes. Contractor shall submit a copy of the ISA arborist certification of good standing of 5 years to the Engineer minimum 7 days prior to tree pruning. The cost for arborist services shall be considered incidental to Specification Section 619.
- For the duration of construction within the drip line of trees to remain there must be: no changes, alterations or disturbance to the grade by adding fill, excavating or scraping except as noted on plans; no storage of construction material or equipment; no stockpiling of any construction material or any excavated material no disposal of any liquids (E.G. Concrete slurry, gas, oil, paint); no vehicular traffic, equipment or excessive pedestrian traffic, no attachment of any wires, ropes, lights, or any other such attachment other than those of protective nature to any tree to be preserved; and no cleaning of equipment or material under the canopy of any tree or group of trees to remain. For slopes flatter than 3H:1V, till top six-inches of soil to evenly incorporate fertilizer and amendments. For slopes steeper than 3H:1V, no tilling is required.
- Representative samples of soil from project site shall be submitted to Crop Nutrient Solutions Inc., the University of Hawaii Agricultural Extension Service or laboratory acceptable to the Engineer for analysis of required soil amendments. Test results and fertilization schedule shall be presented to the Engineer for review and acceptance before placing planting soil or amending existing soil. Uniformly distribute fertilizer and amendments over planting areas as recommended by the soil analysis report.
- Guy wires, flagging, stakes, windbreakers, etc. shall be maintained and replaced if necessary by the Contractor until the tree/shrub/groundcover is able to stand by itself. The Contractor shall remove and dispose of these items at the end of plant establishment period.

- Any planting that obstructs sight distance, signs or traffic lights shall be relocated or removed as determined by the Engineer.
- Contractor shall install hydro-mulch mix with geobinder below all Erosion Control Mat (ECM) and vegetated wall installations on sloped areas. No grass seed will be required for hydro-mulch mix with geobinder applications installed on slopes below ECM and vegetated walls.
- Provide water for all plant material for the duration of the project, including plant establishment period. Water trees, shrubs, ground covers and all grassed areas. Water for planting shall not cause erosion damage to the slopes. The Contractor shall be responsible for repairing any damage cause by the watering of plants. The Contractor shall gradually decrease the amount of water being provided to the plant material 8 weeks prior to final acceptance of plantings.
- Temporary irrigation shall be provided and installed by the Contractor for the duration of the project. Refer to Specification Sections 619.04(M), 641.03(E) and 641.03(F). Temporary irrigation system shall be considered incidental to Specification Sections 619 - Planting and 641 - Hydro-Mulch Seeding.
- PID 987 and 988: Sites contain stands of koa haole (Citharexylum spinosum). Contractor shall demolish, remove, and dispose of koa haole within the project limits in such a way as to minimize the spread of koa haole seeds. Removal of roots will not be required. Contractor shall present a demolition and removal plan to the Engineer for review and acceptance prior to clearing and grubbing operations.
- Contractor shall be responsible for weeding throughout the 9-month plant establishment period. Refer to Specification Section 619 - Planting.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

LP-01 LANDSCAPE NOTES-PH2.DWG 5/6/2015 9:56:23 AM



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EX-100  
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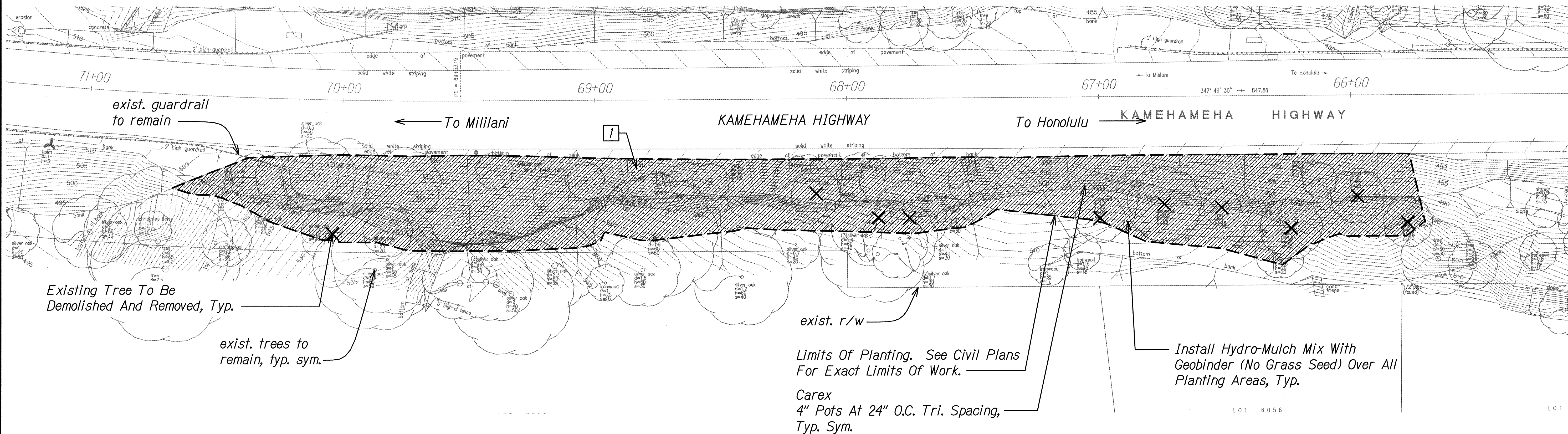
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE  
NOTES**

CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: None Date: May 2015



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	48	71



PLANT SCHEDULE PID 150

GROUND COVER	BOTANICAL NAME	COMMON NAME
	Carex wahuensis	Carex

REFERENCE NOTES SCHEDULE PID 150

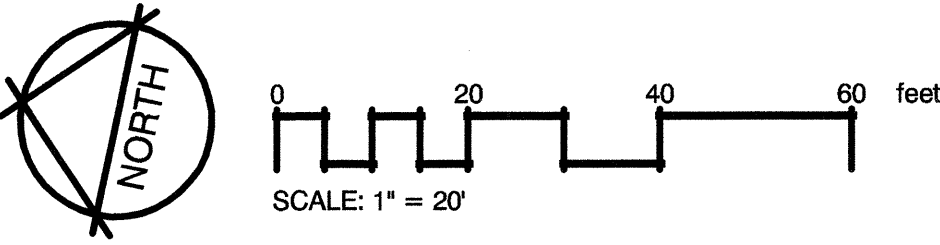
SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
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LP-02 SITE OF PID 150 5/6/2015 9:55:53 AM

LANDSCAPE PLANTING PLAN PID 150

Scale: 1" = 20'-0"



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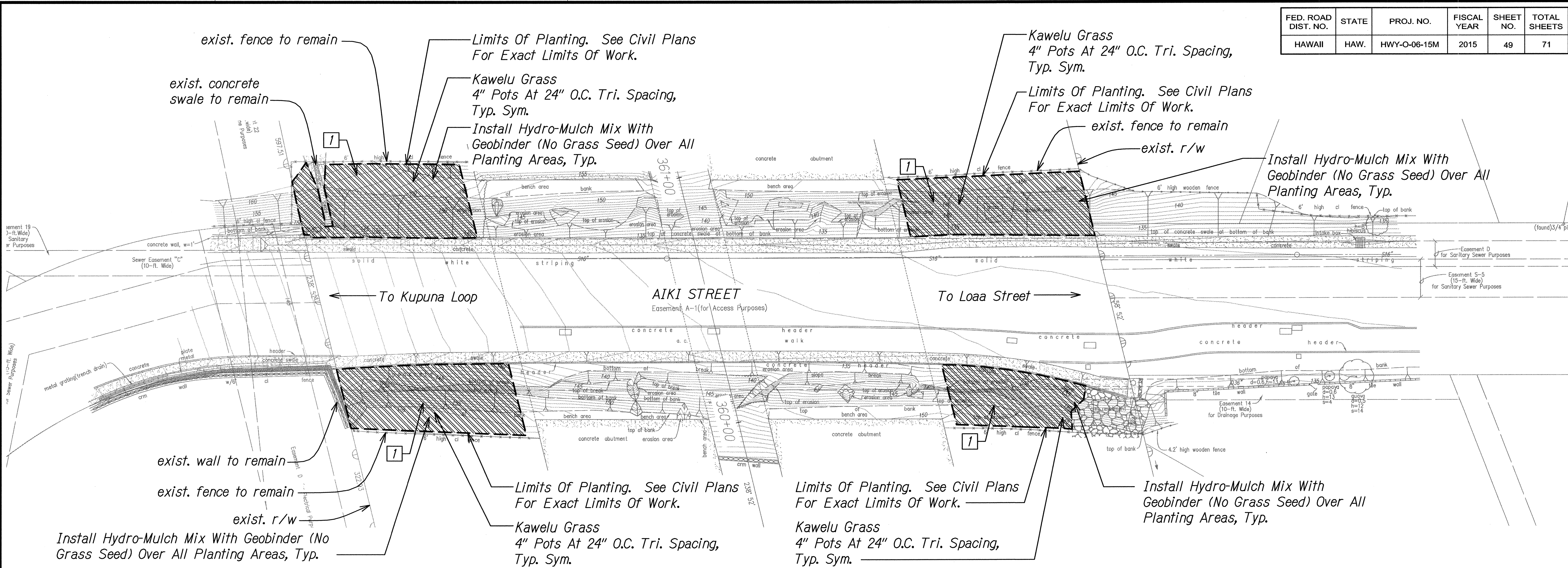
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE PLANTING PLAN**  
**PID 150**  
CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015

SHEET No. LP-02 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	49	71



PLANT SCHEDULE PID 987

GROUND COVER	BOTANICAL NAME	COMMON NAME
	<i>Eragrostis variabilis</i>	Kawelu Grass

REFERENCE NOTES SCHEDULE PID 987

SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.

Notes:

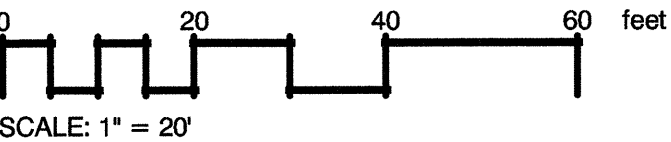
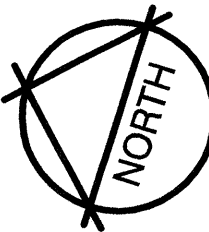
- These sites contain stands of koa haole (*Citharexylum spinosum*). Contractor shall demolish, remove, and dispose of all koa haole within the project limits in such a way as to minimize the spread of koa haole seeds. Removal of roots will not be required. Contractor shall present a removal plan to the Engineer for review and acceptance prior to clearing and grubbing operations.
- Contractor shall be responsible for weeding throughout the 9-month plant establishment period. Refer to Specification Section 619 - Planting.

PLANT SCHEDULE PID 988

GROUND COVER	BOTANICAL NAME	COMMON NAME
	<i>Eragrostis variabilis</i>	Kawelu Grass

REFERENCE NOTES SCHEDULE PID 988

SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.



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QUANTITIES BY	
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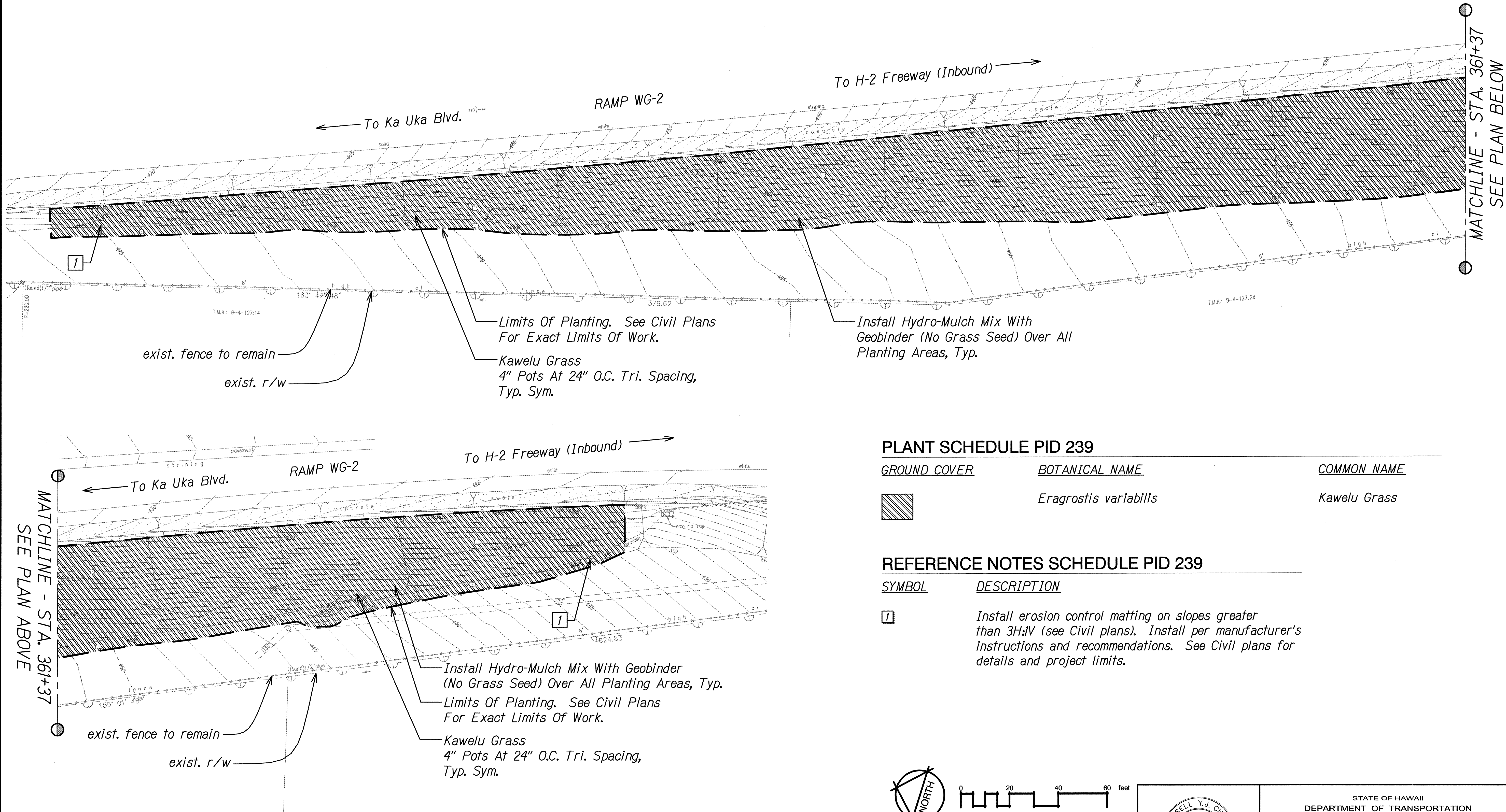
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE PLANTING PLAN**  
**PID 987 AND PID 988**  
CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	50	71



**PLANT SCHEDULE PID 239**

GROUND COVER	BOTANICAL NAME	COMMON NAME
	<i>Eragrostis variabilis</i>	Kawelu Grass

**REFERENCE NOTES SCHEDULE PID 239**

SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
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IN CHARGE	

LP-04 SITE 04.P10 239.DWG 5/6/2015 10:00:02 AM

**LANDSCAPE PLANTING PLAN PID 239**

Scale: 1" = 20'-0"

4/30/16  
EXP. DATE

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

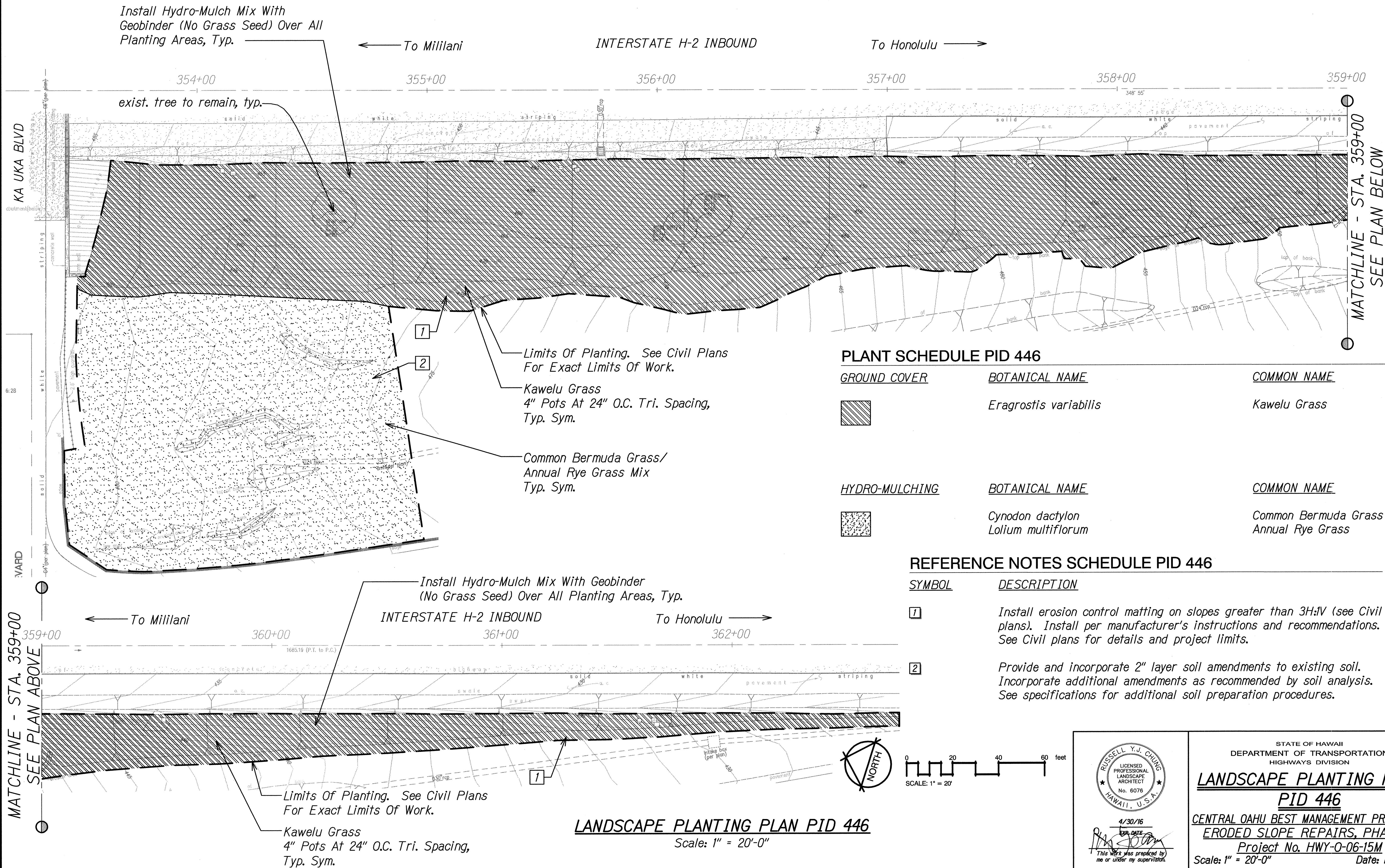
**LANDSCAPE PLANTING PLAN**  
**PID 239**

CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015

SHEET No. LP-04 OF 11 SHEETS



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	51	71



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
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LP-05 SITE 05-PID 446.DWG 5/16/2015 10:07 AM

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DATE  
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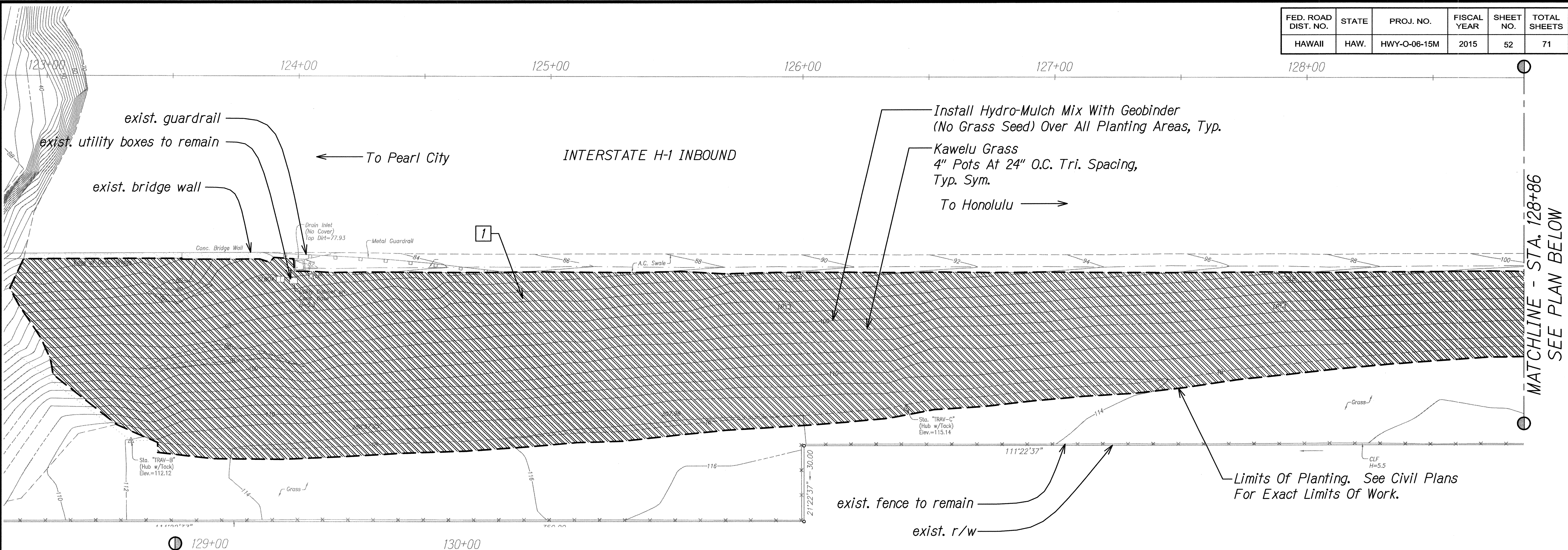
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE PLANTING PLAN**  
**PID 446**

CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	52	71

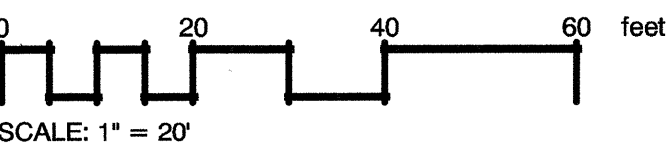
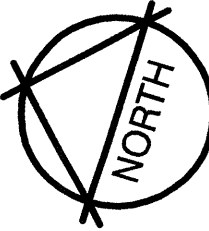


PLANT SCHEDULE PID 450A

GROUND COVER	BOTANICAL NAME	COMMON NAME
	<i>Eragrostis variabilis</i>	Kawelu Grass

REFERENCE NOTES SCHEDULE PID 450A

SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**LANDSCAPE PLANTING PLAN**  
**PID 450A**  
CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015

SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
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ORIGINAL PLAN	
NOTE BOOK	
DATE	

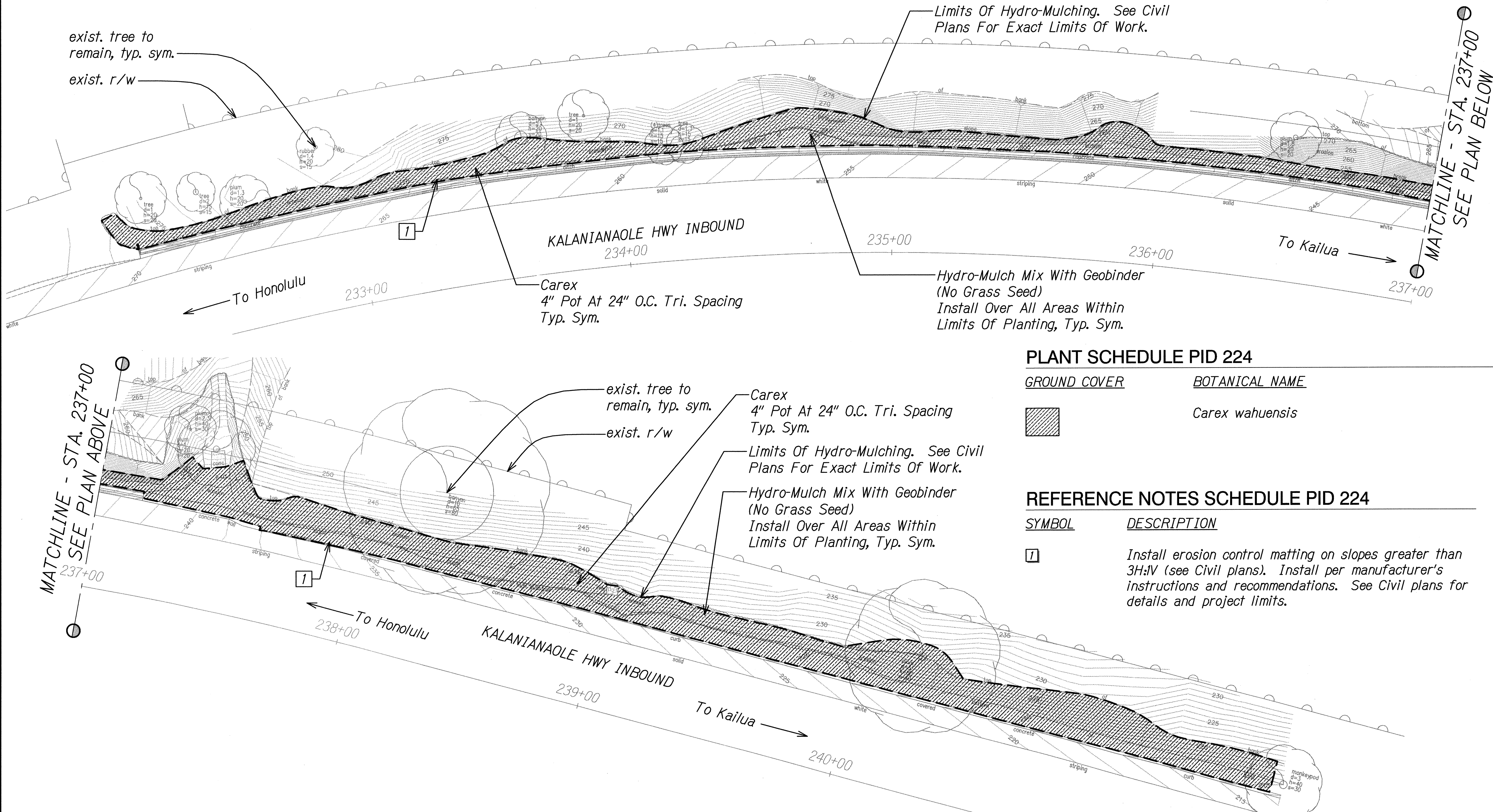
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LANDSCAPE PLANTING PLAN PID 450A

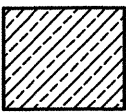
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	53	71



**PLANT SCHEDULE PID 224**

GROUND COVER	BOTANICAL NAME	COMMON NAME
	Carex wahuensis	Carex

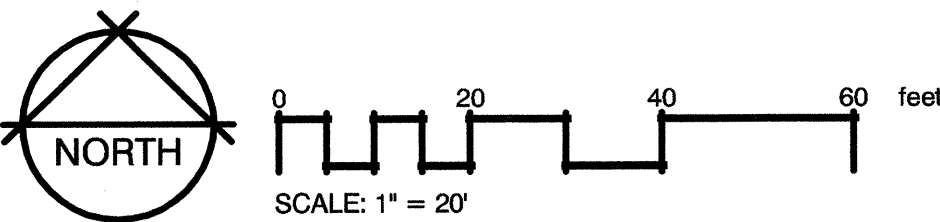
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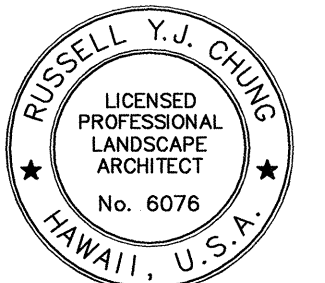
SYMBOL	DESCRIPTION
	Install erosion control matting on slopes greater than 3H:1V (see Civil plans). Install per manufacturer's instructions and recommendations. See Civil plans for details and project limits.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
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LP-07 SITE OF PID 224.DWG 5/16/2015 10:59 AM

**LANDSCAPE PLANTING PLAN PID 224**  
Scale: 1" = 20'-0"





4/30/16  
EXP. DATE

*[Signature]*  
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE PLANTING PLAN**  
**PID 224**

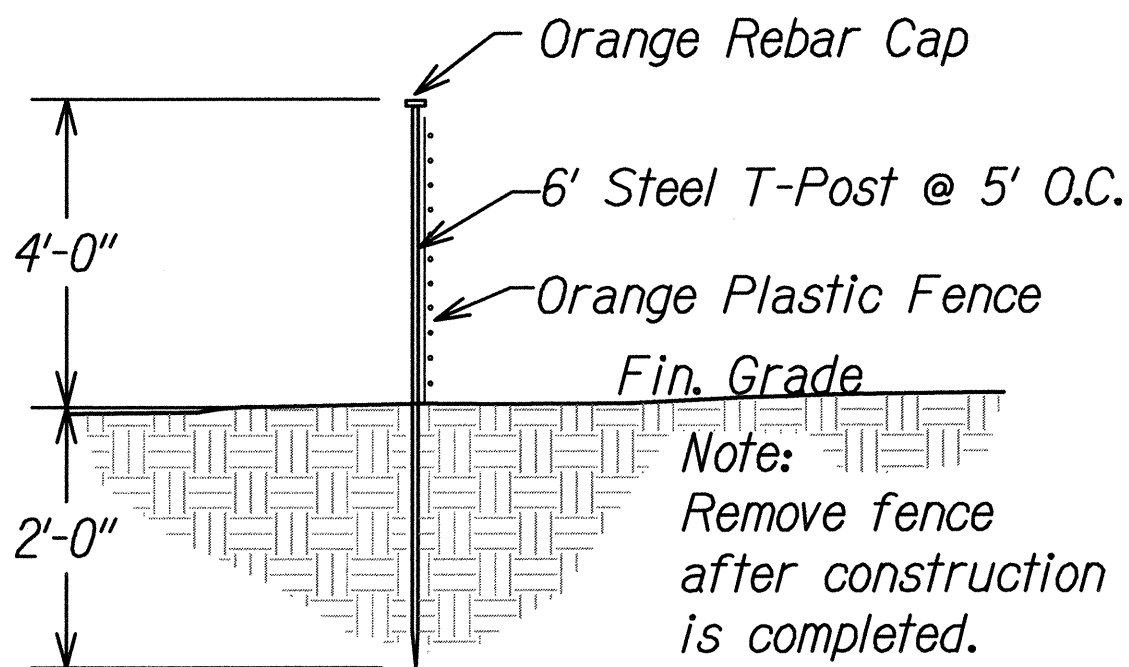
CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: 1" = 20'-0" Date: May 2015

SHEET No. LP-07 OF 11 SHEETS

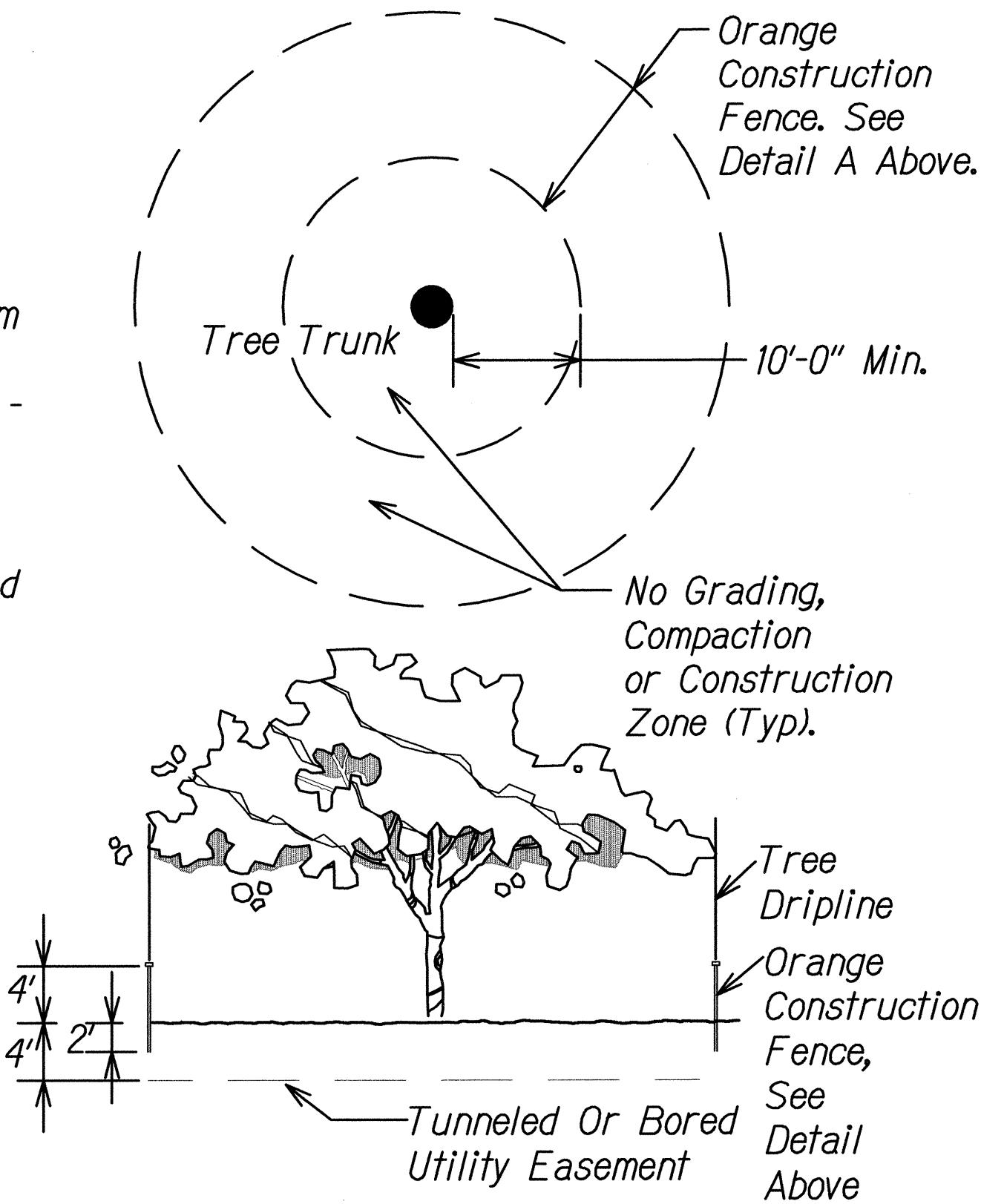
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	54	71

TREE PROTECTION ZONE:

- All trees identified on the plans to be protected unless noted otherwise. All trees 24" caliper or greater (as measured at 4½ feet height) shall be protected. If trees other than those designated for removal are damaged beyond survival condition as determined by the Engineer, the Contractor shall remove such trees and replace with a tree of the same species and size and maintain for the duration of the construction or 12 months whichever is greater at no cost to the State.
- The recommended tree protection zone should be located at the outer drip line of the canopy of the tree. However, the minimum protection zone around a tree should be at least 10 feet from the external surface of the tree's trunk. For all palms, the minimum protection zone should be at least 10 feet from the external surface of the palm's trunk. Fence location may be adjusted as directed by the Engineer.
- All underground utilities and irrigation lines should be routed outside of the tree protection zone. If utilities must traverse the tree protection zone, they shall be tunneled or bored at a depth of 4 feet or greater within the tree protection zone.
- All protected trees shall be listed on the demolition, landscape, grading and utilities plans. If there is a discrepancy with all plans, Contractor shall contact Engineer immediately.
- Protective fences shall be erected around trees identified on plan to remain and/or trees with a trunk diameter greater than 24 inches (as measured at a height of 4 ½ feet.) Protective fence shall be 4 feet high orange plastic mesh or approved equivalent supported on steel T-post a minimum of 6 feet long. Protective fence shall surround tree at a minimum of 10 feet from tree trunk with steel T-post at a minimum of 5 feet on center. Fence shall be installed prior to any demolition work and shall remain in place until site work is completed. Signs shall be posted on all four sides to read "TREE PROTECTION ZONE [TPZ] - NO GRADE CHANGE, STORAGE OR EQUIPMENT PERMITTED WITHIN TPZ."
- For the duration of construction within the drip line of the trees to remain there must be:
  - No changes, alteration or disturbance to the grade by adding fill, excavating or scraping except as noted on plans;
  - No storage on construction materials or equipment;
  - No stockpiling of any construction materials or excavated materials;
  - No disposal of any liquids (e.g. concrete slurry, gas, oil, paint);
  - No vehicular traffic, equipment or excessive pedestrian traffic;
  - No attachment of any wires, ropes, lights or any other such attachment other than those of a protective nature to any tree to be preserved; and
  - No cleaning of equipment or material under the canopy of any tree or group of trees to be preserved
- Auger tunneling, not trenching, shall be used where possible for utility placement within the drip line of the tree. If trenching is necessary it shall be hand dug within the drip line of the tree.



DETAIL A - ORANGE CONSTRUCTION FENCE  
NOT TO SCALE

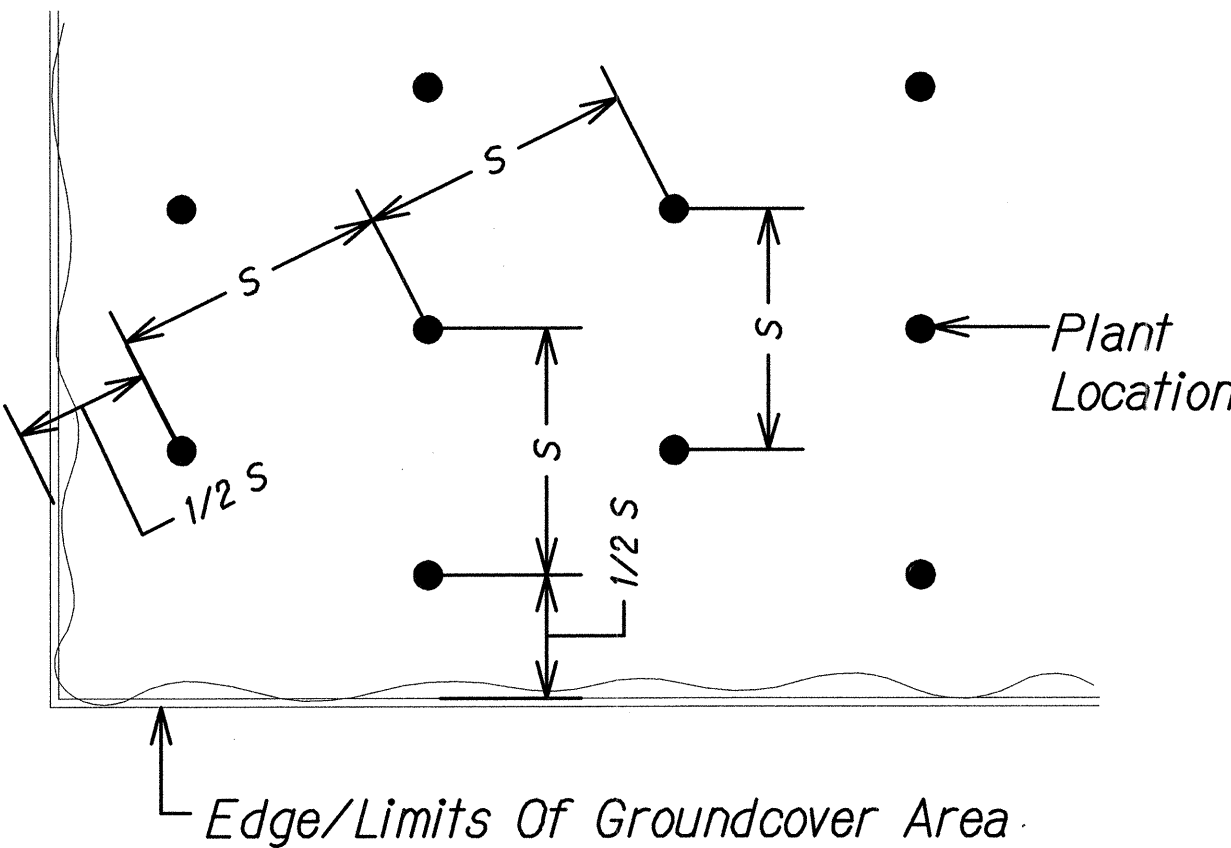


TREE PROTECTION

Scale: Not to Scale

1  
LP-08/LP-08

- Note:
- S = Spacing, (refer to plant list for spacing)
  - Use spacing layout for shrubs, groundcovers, and annuals



TRIANGULAR SPACING

Scale: Not to Scale

2  
LP-08/LP-08

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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LP-08-DETAILS-PL2DWG 5/6/2015 10:04:03 AM

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*[Signature]*

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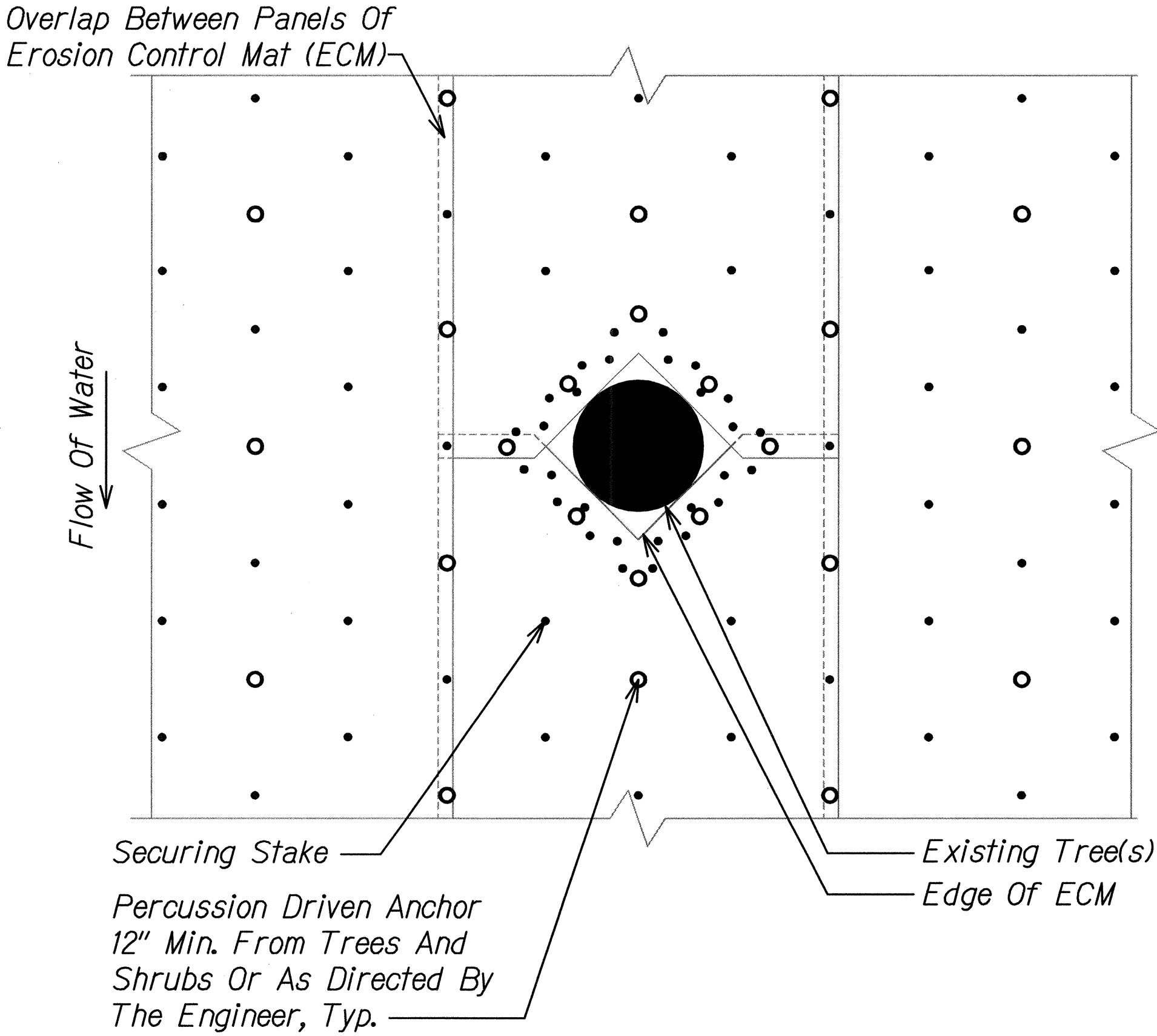
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE  
DETAILS**

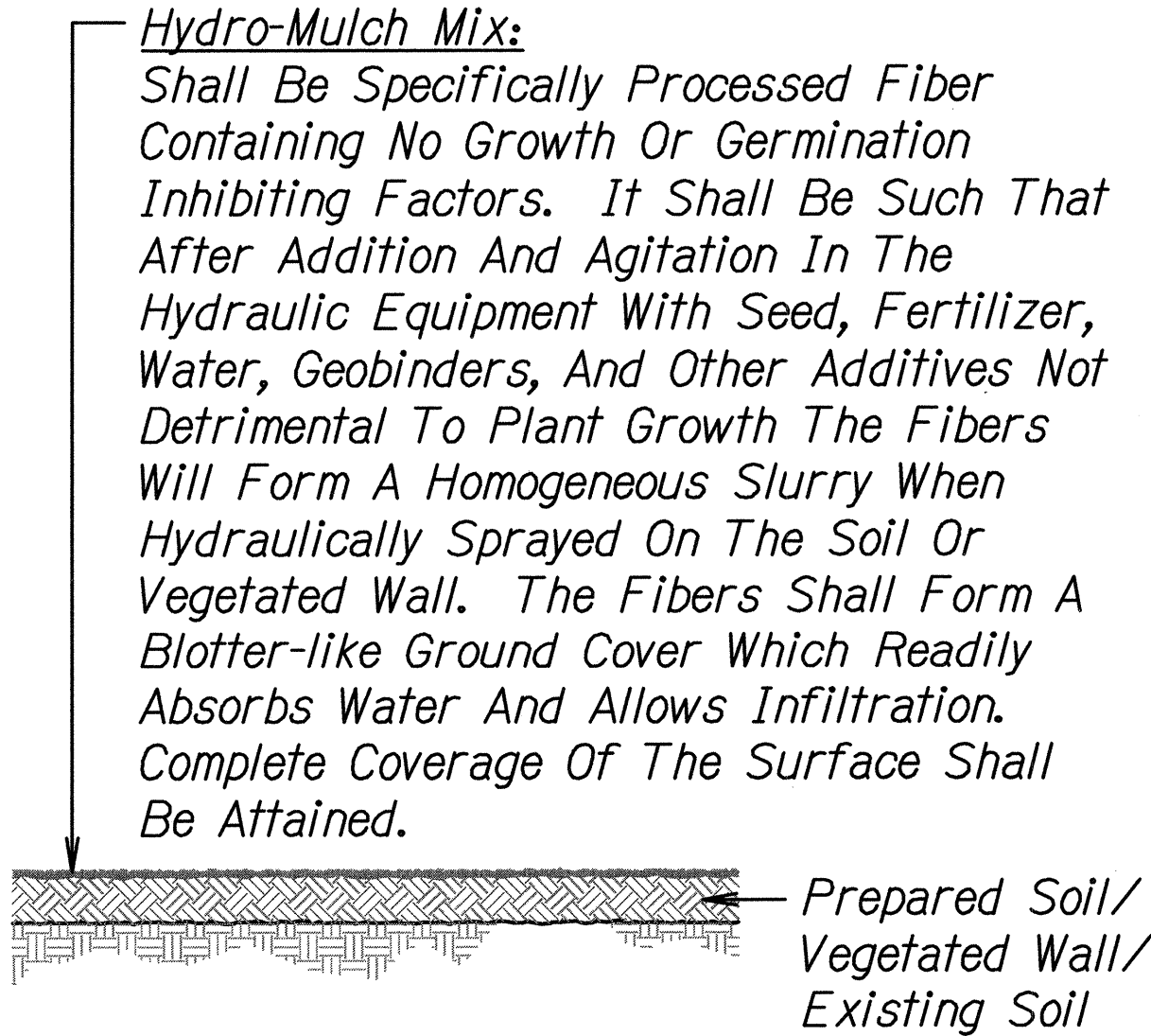
CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: As Shown Date: May 2015



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	55	71



- Notes:**
- Contractor Shall Join Overlapping Sections Of Erosion Control Mat (ECM) Using Methods Approved Or Recommended By The ECM Manufacturer.
  - Contractor Shall Create An Opening Around The Circumference Of Each Existing Tree To Ensure ECM Maintains Direct Contact With The Ground Surface. For Densely Growing Trees, ECM Openings May Be Created To Encompass Multiple Trees. Contractor Shall Create Opening In ECM Using Methods Approved Or Recommended By The Manufacturer.
  - Contractor Shall Secure ECM With Combination Of Stakes And Percussion Anchors. Stake Placement May Require Modification In The Field Due To Root Location, Trunk Structure, Or Other Obstacles. Contractor Shall Install Additional Stakes And/Or Anchors To Ensure ECM Maintains Direct Contact With Ground Surface. Refer To Erosion Control Plans For Stake And Anchor Placement.
  - When Placing Matting Between Clusters Of Existing Trees, Contractor May Install ECM Around Cluster If Spacing Between Trees Is 12 Inches Or Less With Engineer's Approval. Contractor Shall Plant Ground Cover Where Space Permits Between Trees Or As Directed By The Engineer.



### HYDRO-MULCH DETAIL

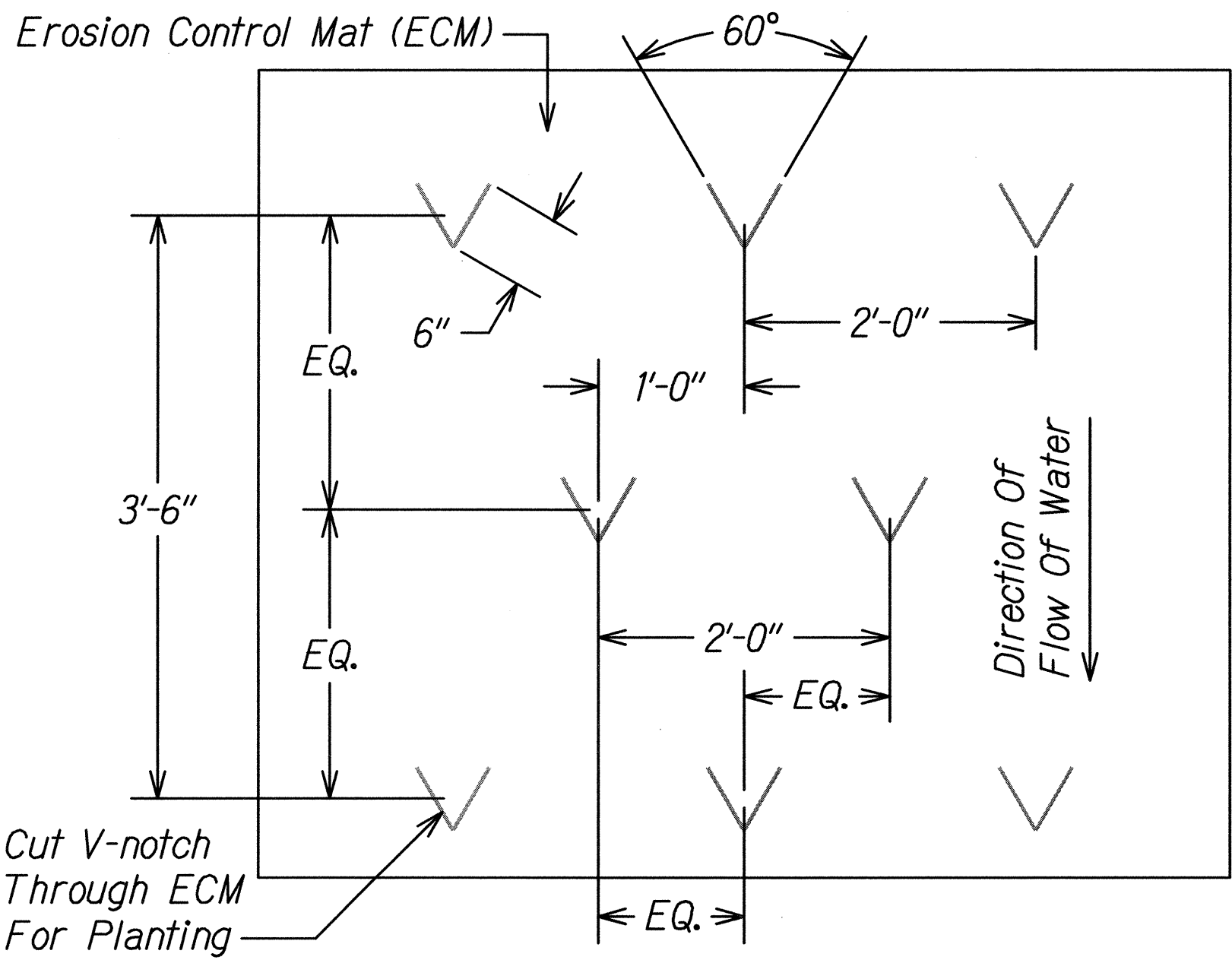
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LP-09/LP-09

### TYPICAL ECM INSTALLATION AROUND EXISTING TREES

Scale: Not to Scale

1  
LP-09/LP-09



- Notes:**
- Install Erosion Control Mat (ECM) In Accordance With The Contract Documents Or Per Manufacturer's Standard Guidelines for Trenching, Overlaps, And Stapling. Consult The ECM Manufacturer's Installation Guidelines For Full Installation Details.
  - Install The Live Plant Material Using A V-notch Design Approved Or Recommended By The ECM Manufacturer.
  - Contractor Shall Remove Soil Material From V-Shaped Opening For Planting Pit.
  - After Placing Tree, Shrub, Or Ground Cover In Planting Pit, Backfill Pit And Compact Soil. Secure ECM Flaps Back Down To The Soil With Securing Stakes Per ECM Manufacturer's Recommendations.

### TYPICAL PLANTING THROUGH ECM

Scale: Not to Scale

2  
LP-09/LP-09

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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LP-09 DETAILS PH2.DWG 5/6/2015 10:56:49 AM

RUSSELL Y.J. CHUNG  
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT  
No. 6076  
HAWAII, U.S.A.

4/30/16  
EXP. DATE

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSCAPE DETAILS**

CENTRAL OAHU BEST MANAGEMENT PRACTICES  
ERODED SLOPE REPAIRS, PHASE 2  
Project No. HWY-O-06-15M  
Scale: As Shown Date: May 2015



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-06-15M	2015	56	71

PLANT SCHEDULE PID 150

<u>GROUND COVER</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Carex wahuensis	Carex	4" Pot	24" O.C. Triangular Spacing Ensure No Conflict With ECM Stakes And Anchors. Install Hydro-Mulch Mix With Geobinder (No Grass Seed) Over All Planting Areas.

PLANT SCHEDULE PID 987

<u>GROUND COVER</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Eragrostis variabilis	Kawelu Grass	4" Pot	24" O.C. Triangular Spacing Ensure No Conflict With ECM Stakes And Anchors. Install Hydro-Mulch Mix With Geobinder (No Grass Seed) Over All Planting Areas.

PLANT SCHEDULE PID 988


<u>GROUND COVER</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Eragrostis variabilis	Kawelu Grass	4" Pot	24" O.C. Triangular Spacing Ensure No Conflict With ECM Stakes And Anchors. Install Hydro-Mulch Mix With Geobinder (No Grass Seed) Over All Planting Areas.

PLANT SCHEDULE PID 239

<u>GROUND COVER</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Eragrostis variabilis	Kawelu Grass	4" Pot	24" O.C. Triangular Spacing Ensure No Conflict With ECM Stakes And Anchors. Install Hydro-Mulch Mix With Geobinder (No Grass Seed) Over All Planting Areas.

PLANT SCHEDULE PID 446

<u>GROUND COVER</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Eragrostis variabilis'	Kawelu Grass	4" Pot	24" O.C. Triangular Spacing Ensure No Conflict With ECM Stakes And Anchors. Install Hydro-Mulch Mix With Geobinder (No Grass Seed) Over All Planting Areas On Slope

<u>HYDRO-MULCHING</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT</u>	<u>REMARKS</u>
	Cynodon dactylon Lolium multiflorum	Common Bermuda Grass Annual Rye Grass	Seed Seed	See specs for grass seeding rate

ORIGINAL PLAN

DATE

DESIGNED BY

QUANTITIES BY

CHECKED BY

NO.

SURVEY PLOTTED BY

DATE

DESIGNED BY

QUANTITIES BY

CHECKED BY

NO.

LP-10 PLANT LIST-PHIZONG 5/6/2015 10:26:58 AM

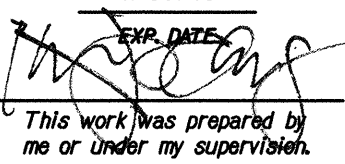
RUSSELL Y.J. CHUNG

LICENSED PROFESSIONAL LANDSCAPE ARCHITECT

No. 6076

HAWAII, U.S.A.

4/30/16



This work was prepared by me or under my supervision.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PLANT SCHEDULE

PID 150, 987, 988, 239 & 446

CENTRAL OAHU BEST MANAGEMENT PRACTICES

ERODED SLOPE REPAIRS, PHASE 2

Project No. HWY-O-06-15M

Scale: As Shown

Date: May 2015

SHEET No. LP-10 OF 11 SHEETS



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