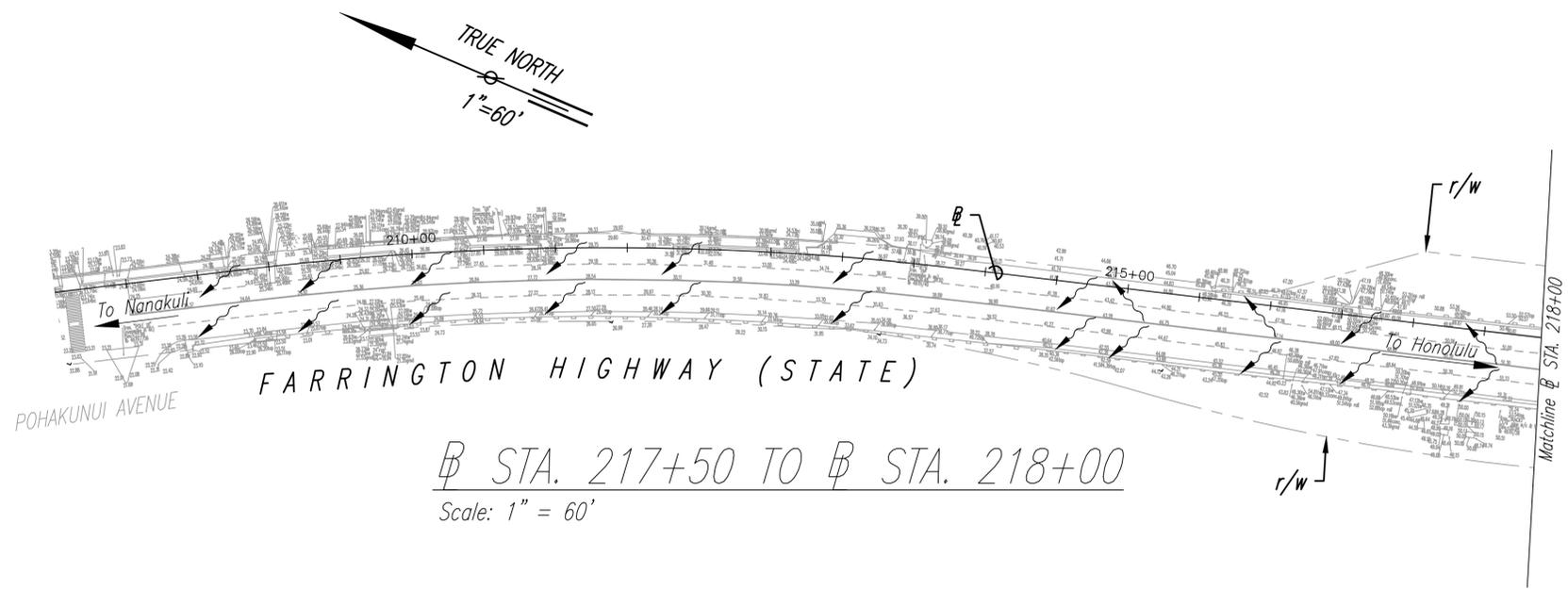
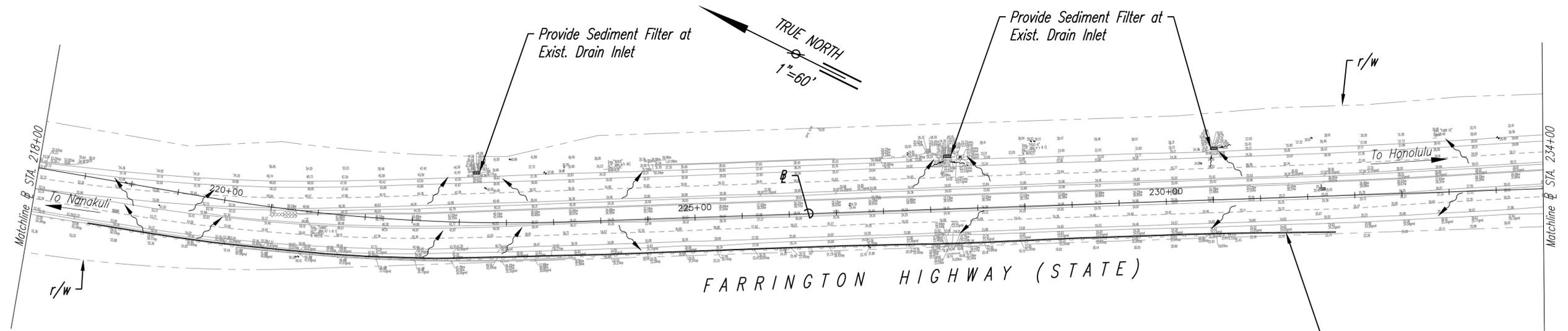


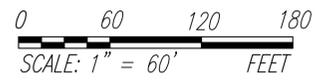
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	8	62



⊕ STA. 217+50 TO ⊕ STA. 218+00  
Scale: 1" = 60'



⊕ STA. 218+00 TO ⊕ STA. 234+00  
Scale: 1" = 60'



NOTE:

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**LEGEND**

- Direction of Surface Runoff
- Filter Sock

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
 Signature: *R. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

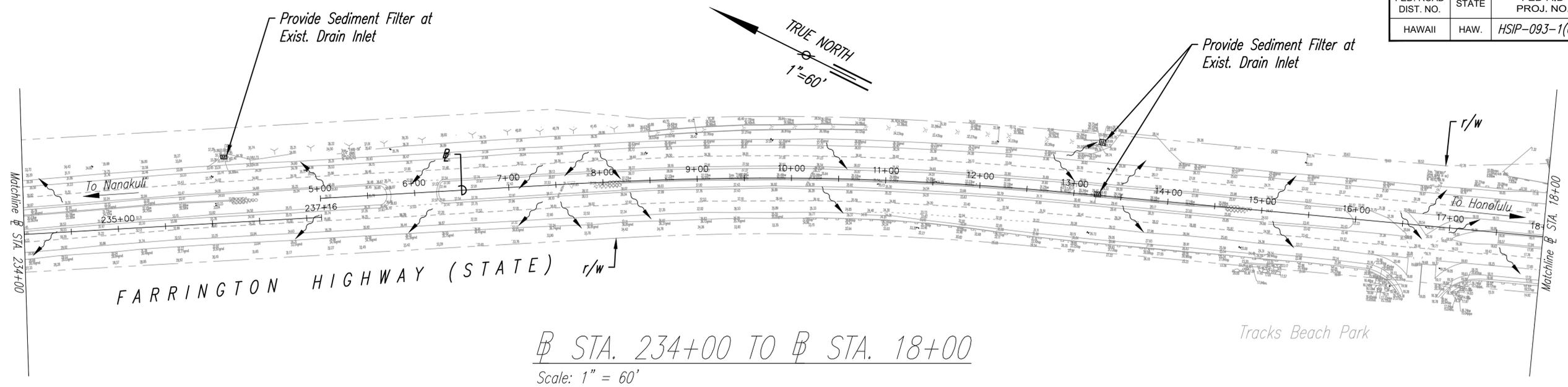
SEDIMENT & EROSION CONTROL PLAN - 1

FARRINGTON HIGHWAY  
SAFETY IMPROVEMENTS  
Pohakunui Avenue to Interstate H-1  
Federal Aid Project No. HSIP-093-1(031)

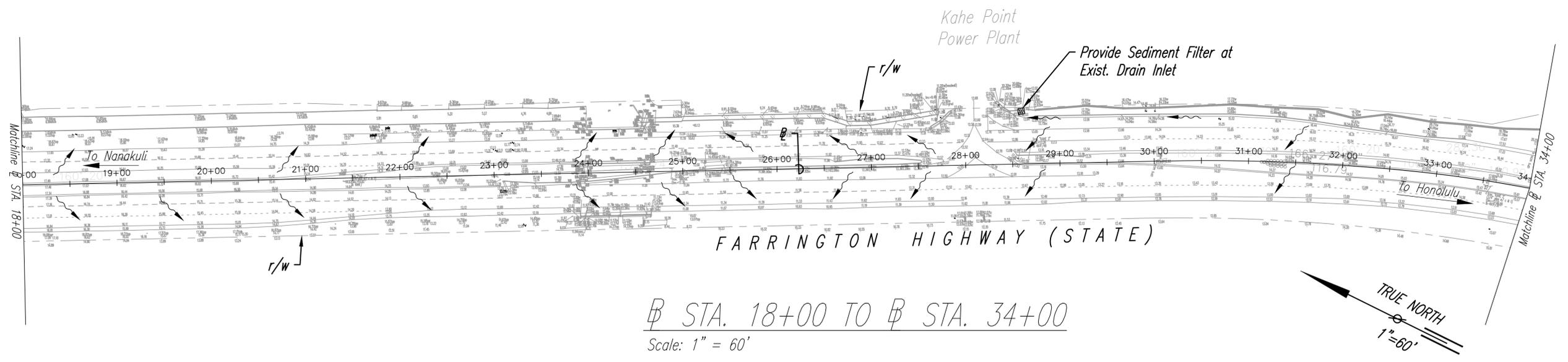
Scale: 1"=60' Date: November 2021

SHEET No. 1 OF 9 SHEETS

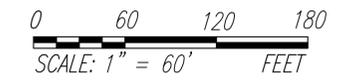
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	9	62



⊕ STA. 234+00 TO ⊕ STA. 18+00  
Scale: 1" = 60'



⊕ STA. 18+00 TO ⊕ STA. 34+00  
Scale: 1" = 60'



NOTE:

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**LEGEND**

~ ~ ~ Direction of Surface Runoff

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____



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 Signature: *R. B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 2*

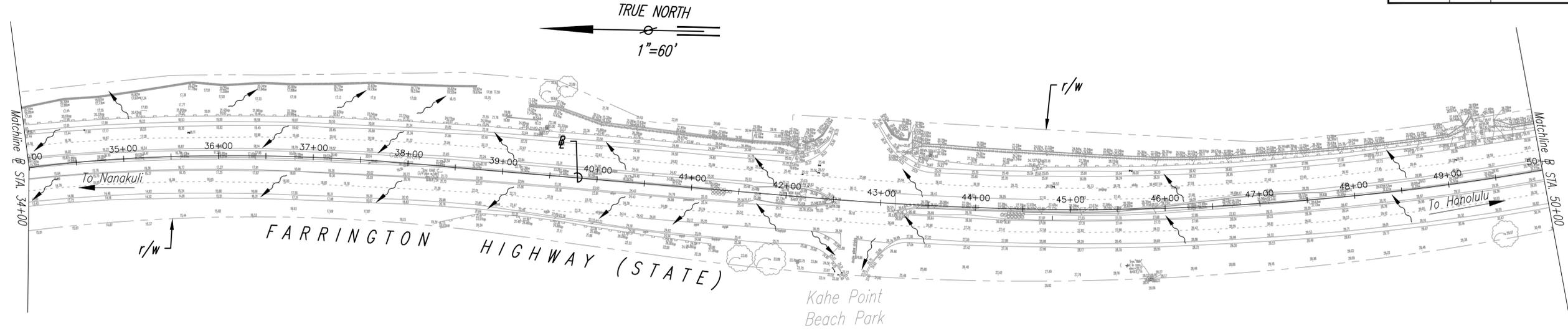
**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

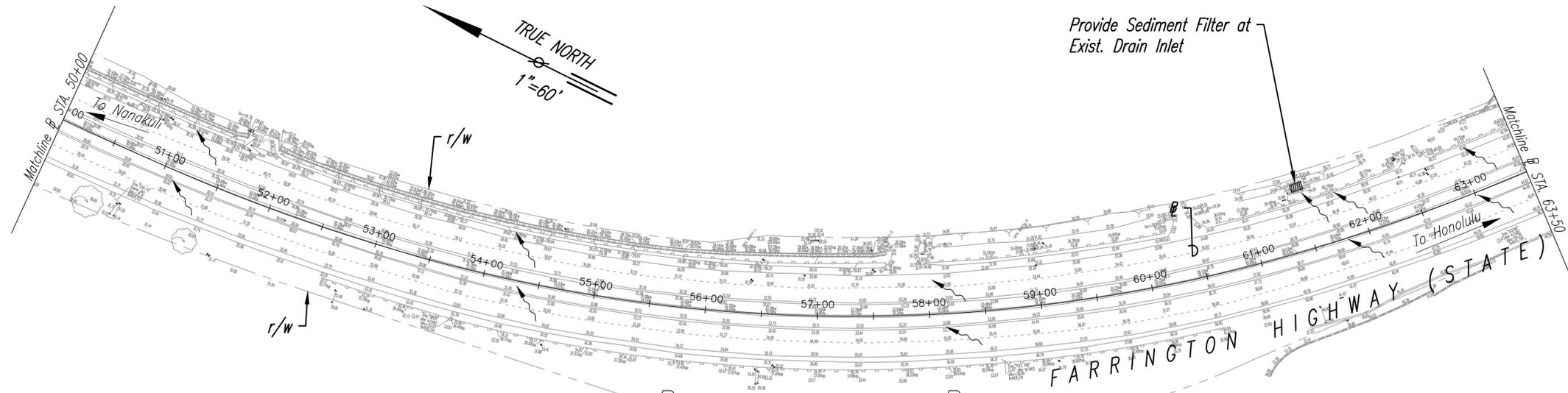
Scale: 1"=60' Date: November 2021

SHEET No. 2 OF 9 SHEETS

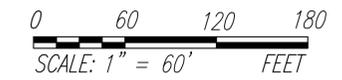
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	10	62



⊕ STA. 34+00 TO ⊕ STA. 50+00  
Scale: 1" = 60'



⊕ STA. 50+00 TO ⊕ STA. 63+50  
Scale: 1" = 60'



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**LEGEND**

~ ~ ~ Direction of Surface Runoff

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
 Signature: *R. B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 3*

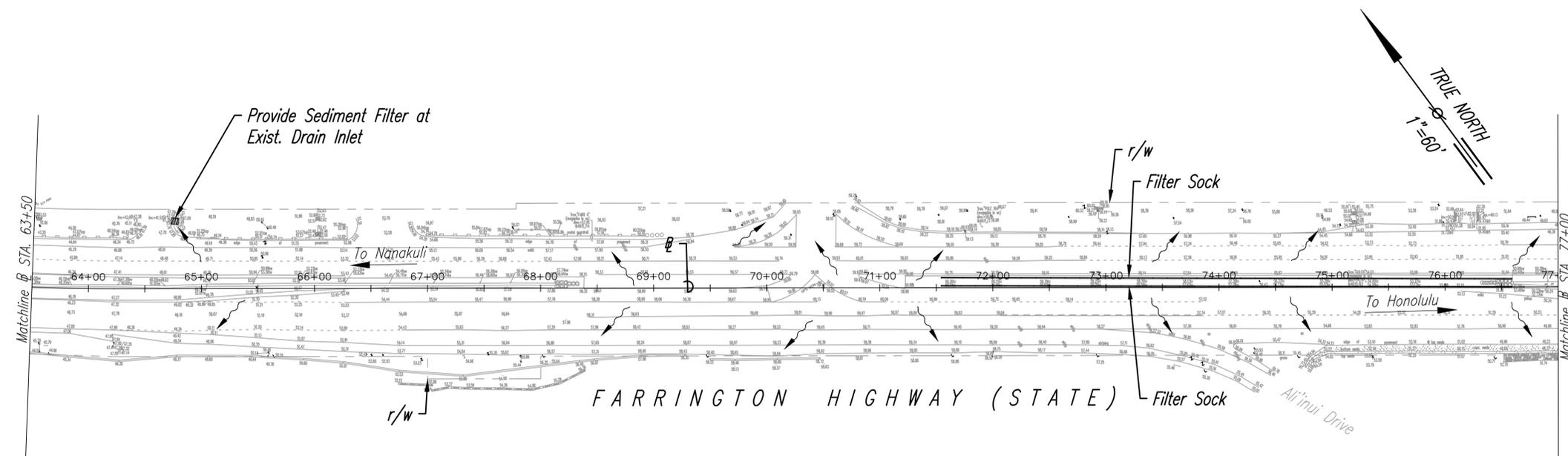
**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

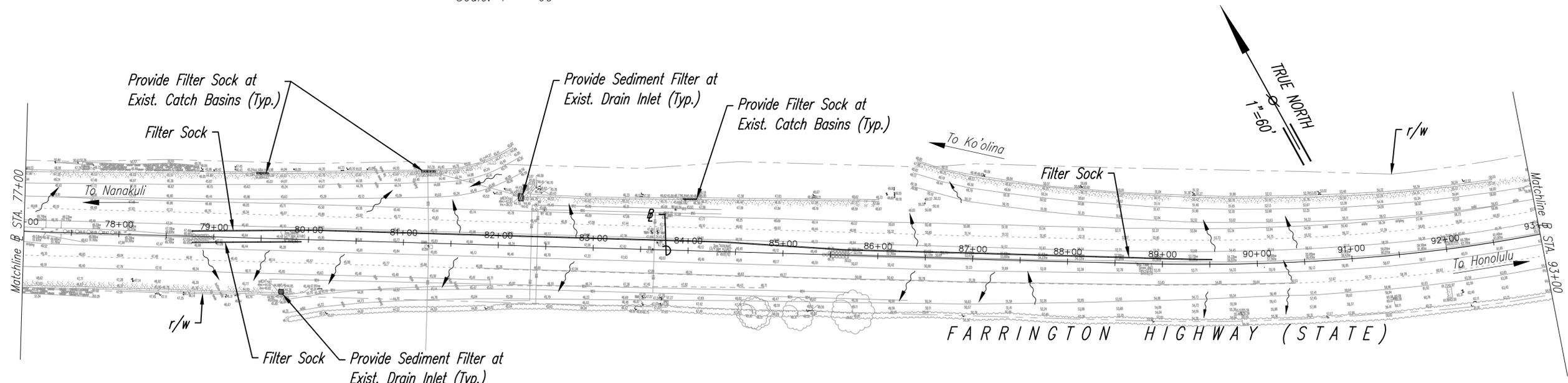
Scale: 1"=60' Date: November 2021

SHEET No. 3 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	11	62



⊥ STA. 63+50 TO ⊥ STA. 77+00  
Scale: 1" = 60'



⊥ STA. 77+00 TO ⊥ STA. 93+00  
Scale: 1" = 60'

**NOTE:**

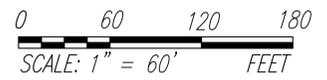
1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based upon their means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP.

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
TRACED BY	_____
DRAWN BY	_____
PLANNED BY	_____
ORIGINAL PLAN	_____
NO. _____	_____

**LEGEND**  
 Direction of Surface Runoff  
 Filter Sock



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 SIGNATURE: *R. B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

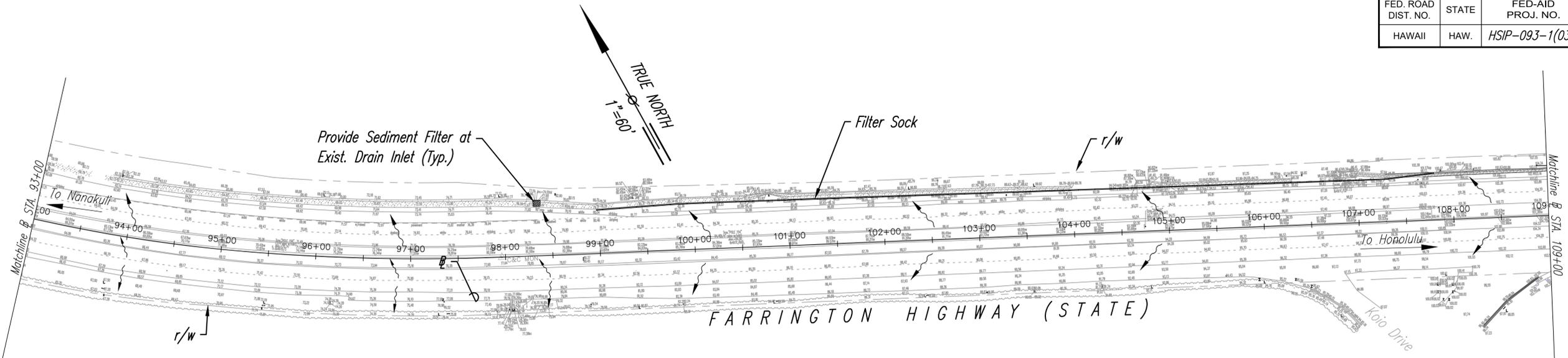
SEDIMENT & EROSION CONTROL PLAN - 4

FARRINGTON HIGHWAY  
SAFETY IMPROVEMENTS  
Pohakunui Avenue to Interstate H-1  
Federal Aid Project No. HSIP-093-1(031)

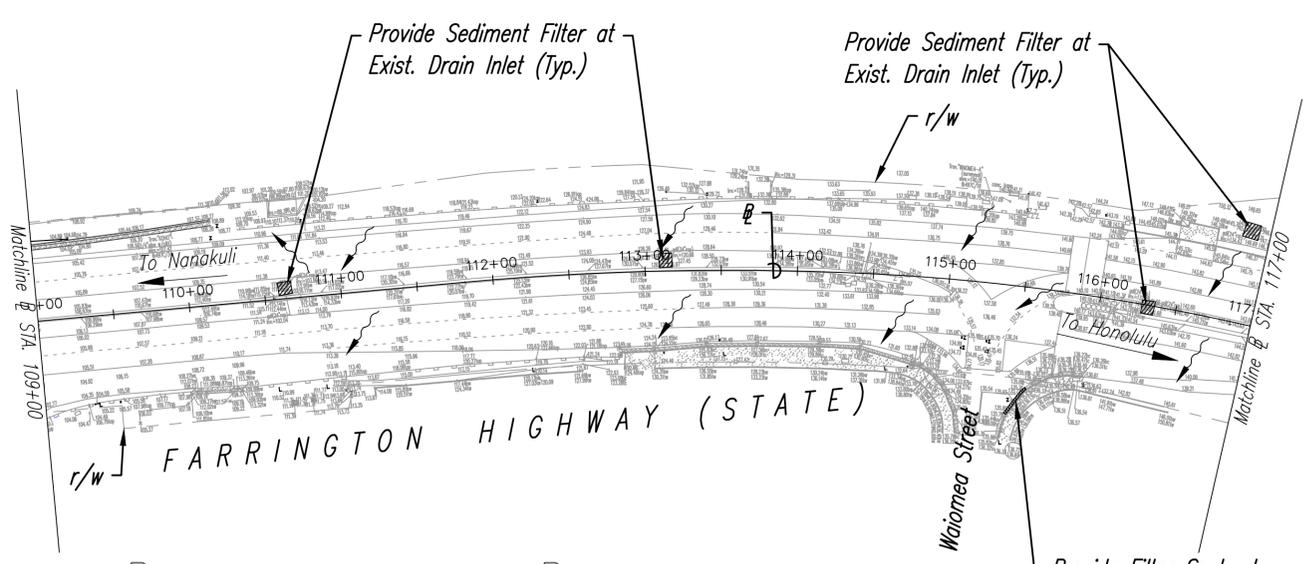
Scale: 1"=60'      Date: November 2021

SHEET No. 1 OF 7 SHEETS

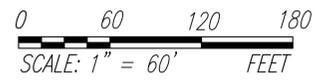
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	12	62



⊥ STA. 93+00 TO ⊥ STA. 109+00  
Scale: 1" = 60'



⊥ STA. 109+00 TO ⊥ STA. 117+00  
Scale: 1" = 60'



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**LEGEND**

- Direction of Surface Runoff
- Filter Sock

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
DESIGNED BY	_____
TRACED BY	_____
DRAWN BY	_____
PLANNED BY	_____
ORIGINAL PLAN	_____
NO. _____	_____



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 SIGNATURE: *R. B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 5*

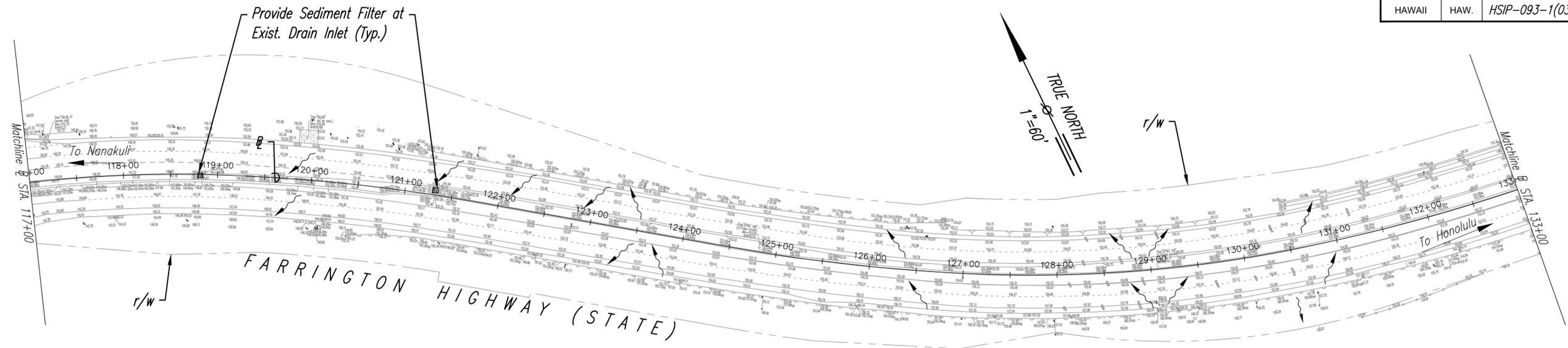
**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

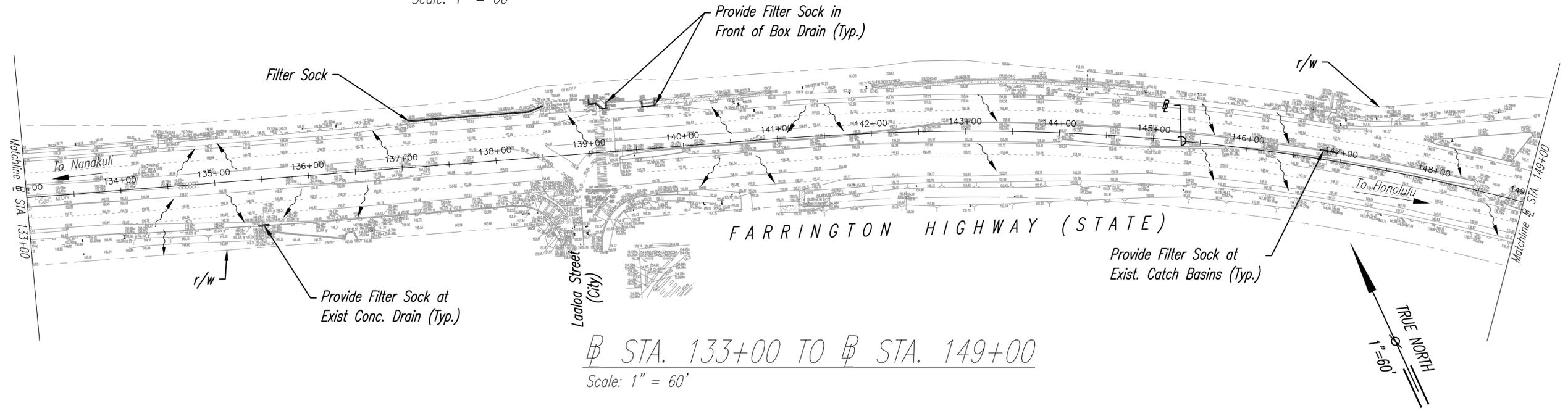
Scale: 1"=60' Date: November 2021

SHEET No. 5 OF 9 SHEETS

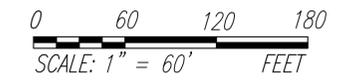
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	13	62



⊥ STA. 117+00 TO ⊥ STA. 133+00  
Scale: 1" = 60'



⊥ STA. 133+00 TO ⊥ STA. 149+00  
Scale: 1" = 60'



NOTE:

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**LEGEND**

- Direction of Surface Runoff
- Filter Sock

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
  
 SIGNATURE      4/30/24      EXPIRATION DATE  
 OF LICENSE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 6*

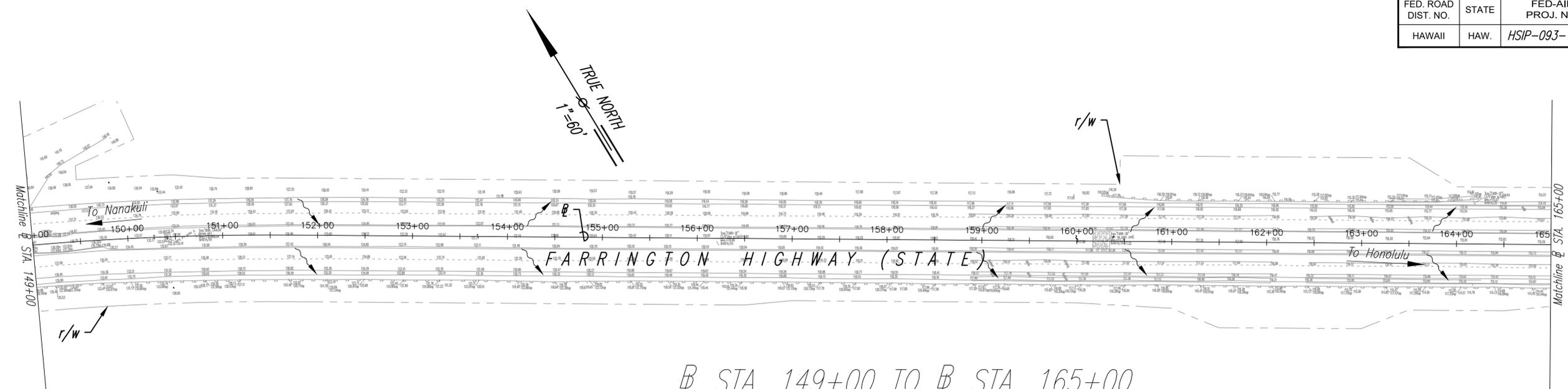
**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

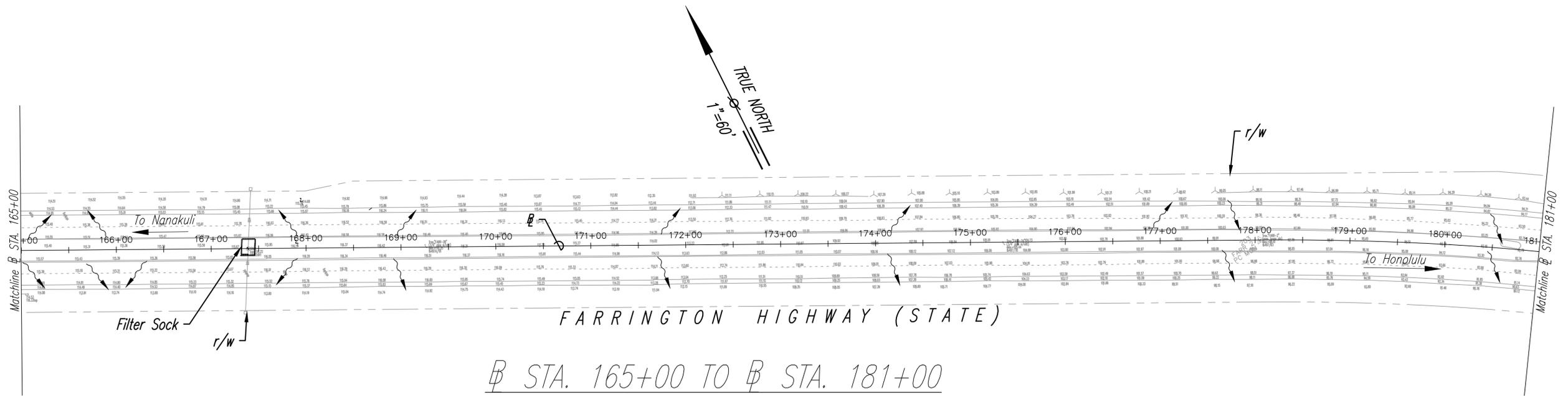
Scale: 1"=60'      Date: November 2021

SHEET No. 6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	14	62



⊞ STA. 149+00 TO ⊞ STA. 165+00  
Scale: 1" = 60'



⊞ STA. 165+00 TO ⊞ STA. 181+00  
Scale: 1" = 60'

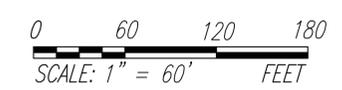
ORIGINAL PLAN	DATE
NO. _____	_____
DESIGNED BY _____	DATE _____
CHECKED BY _____	DATE _____
QUANTITIES BY _____	DATE _____
TRACED BY _____	DATE _____
DRAWN BY _____	DATE _____
SURVEY PLOTTED BY _____	DATE _____

**NOTE:**

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**LEGEND**

- Direction of Surface Runoff
- Filter Sock



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 Signature: *Ryan B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 7*

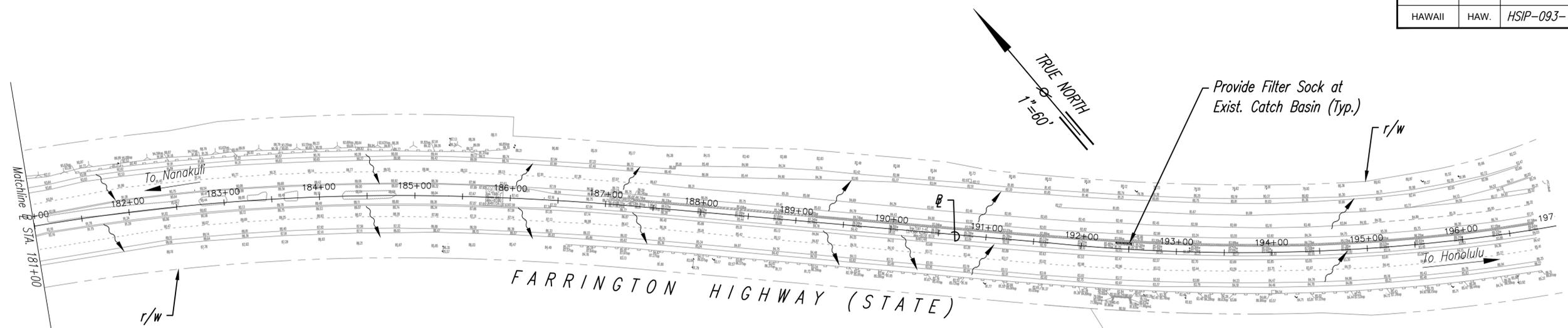
**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

Scale: 1"=60' Date: November 2021

SHEET No. 7 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	15	62



⊕ STA. 161+00 TO ⊕ STA. 196+77  
 Scale: 1" = 60'

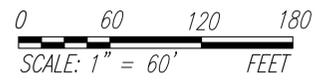
ORIGINAL PLAN	DATE
NO. _____	_____
SURVEY PLOTTED BY _____	DATE _____
DRAWN BY _____	_____
DESIGNED BY _____	_____
QUANTITIES BY _____	_____
CHECKED BY _____	_____

**NOTE:**

1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based upon their means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP.

**LEGEND**

- Direction of Surface Runoff
- Filter Sock



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 Signature: *Ryan B. Valero*  
 EXPIRATION DATE OF LICENSE: 4/30/24

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL PLAN - 8*

**FARRINGTON HIGHWAY  
 SAFETY IMPROVEMENTS**

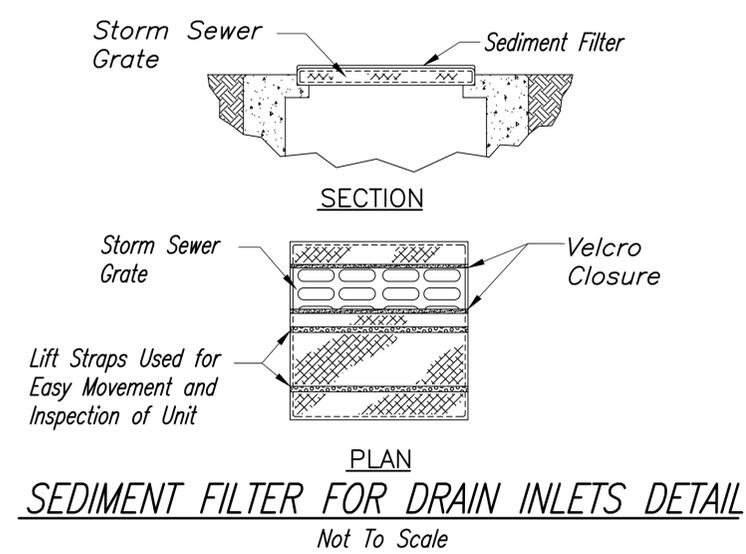
*Pohakunui Avenue to Interstate H-1  
 Federal Aid Project No. HSIP-093-1(031)*

Scale: 1"=60' Date: November 2021

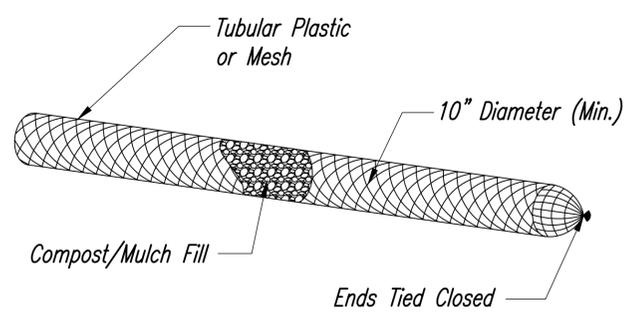
SHEET No. 8 OF 9 SHEETS

Compost Filter Sock Notes:

1. Installation:
  - a. Installation shall be done according to the Manufacturer's recommendations.
  - b. Assemble by tying a knot at one end of the mesh sock, filling the sock with compost, and knotting the other end of the sock. A pneumatic blower may be used to fill the sock with compost.
  - c. For multi-sock use, place socks end-to-end and interlock the ends, or per manufacturer's recommended procedures, whichever is more stringent.
  - d. Anchor filter socks to ground; stakes shall be installed per the Manufacturer's recommendations. Where staking is not possible, heavy concrete blocks shall be used behind the filter sock for stabilization during rainfall events.
  - e. Turn ends of filter sock up slope to prevent flow around the ends.
2. Material for compost berm may be left at the site and used as a soil amendment.
3. Inspection & Maintenance:
  - a. Contractor shall inspect the filter sock(s) weekly during dry periods, daily during periods of prolonged rainfall, and within 24 hours of any rainfall event of 0.25 inch or greater that occurs within a 24-hour period.
  - b. The Contractor shall remove all accumulated sediment and debris from vicinity of filter sock(s) after each storm event. Remove sediment which has accumulated to within 1/3 of the berm height.
4. If a severe storm is expected, remove inlet protection devices to prevent flooding on surrounding streets.

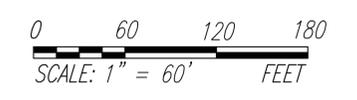


Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	5907 (145)
Permittivity	ASTM D 4491	Sec <sup>-1</sup>	2.1



**FILTER SOCK DETAIL**

*Not To Scale*



SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 ORIGINAL PLAN DRAWN BY \_\_\_\_\_  
 NOTE BOOK TRACED BY \_\_\_\_\_  
 No. \_\_\_\_\_ DESIGNED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

*R. B. Valero*  
SIGNATURE

4/30/24  
EXPIRATION DATE OF LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

*SEDIMENT & EROSION CONTROL DETAILS*

*FARRINGTON HIGHWAY  
SAFETY IMPROVEMENTS*

*Pohakunui Avenue to Interstate H-1  
Federal Aid Project No. HSIP-093-1(031)*

Date: November 2021

SHEET No. 9 OF 9 SHEETS