

FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR STATE NH-072-1(059) 2021 Install Filter Socks or Silt Fence, Typ. (See Detail Sheet EC44) — Existing CRM Wall to be Protected in Place ← To Kailua KALANIANAOLE HIGHWAY (STATE) Z. To Hawaii Kai --> -Existing CRM Wall to be Protected in Place Existing Electrical - Existing Light Pole to and light Poles to be be Protected in Place — Install Filter Socks or ► Existing Electrical and Protected in Place Silt Fence, Typ. Light Poles to be Protected in Place (See Detail Sheet EC44) NOTES: LEGEND: 1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs Flow Arrow 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 Install Filter Sock considering site conditions and construction sequence in accordance with the Contract Documents or Silt Fence **GRAPHIC SCALE:** including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP. Remove existing AC walkway and Curb Scale: 1" = 20' 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines. 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 - R43. STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 - M44. DEMOLITION AND EROSION NO. 15546-C/ \* CONTROL PLAN 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work

for this project related activities/phases and within the right-of-way. The Contractor shall be

Management Practices shall not be removed until final stabilization is complete for that phase.

Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.

responsible to protect all open bare areas during all phases of construction to prevent erosion. Best

14

Date: January 2021

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

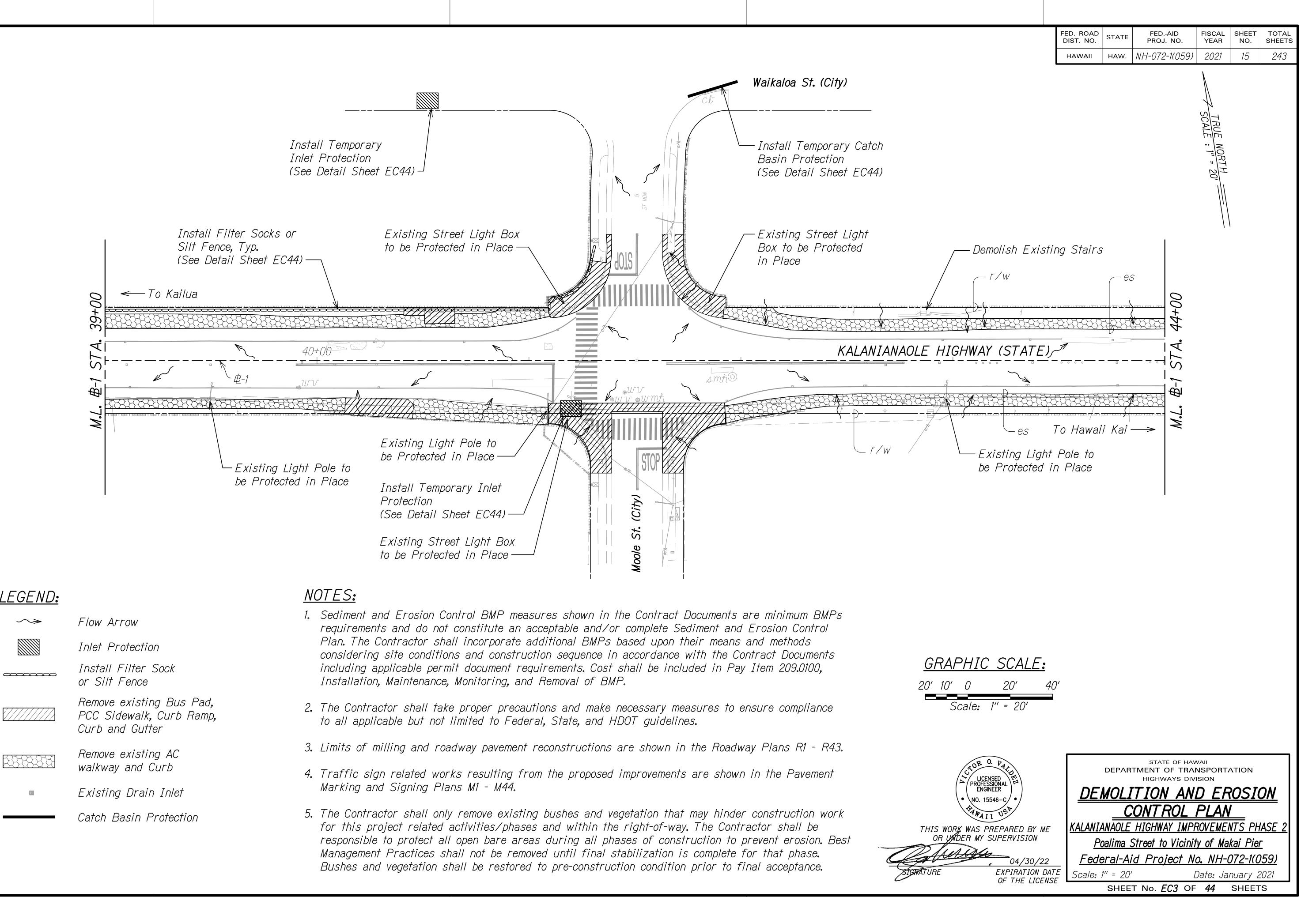
SHEET No. *EC2* OF *44* SHEETS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

O4/30/22

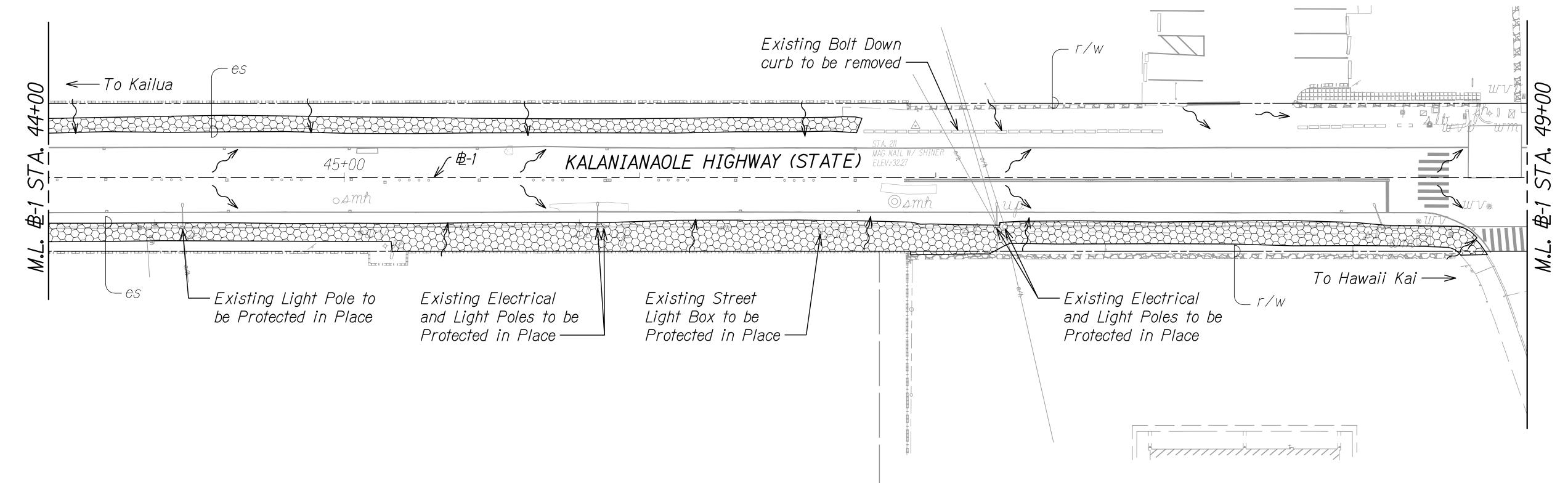
EXPIRATION DATE
OF THE LICENSE

Scale: 1" = 20'



FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET TOTAL SHEETS

HAWAII HAW. NH-072-1(059) 2021 16 243



LEGEND:

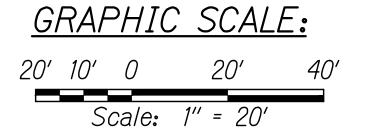
> Flow Arrow

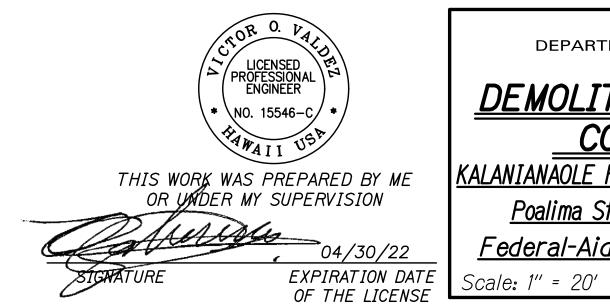
RAHAHA

Remove existing AC walkway and Curb

#### NOTES:

- 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.
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- 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 M44.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

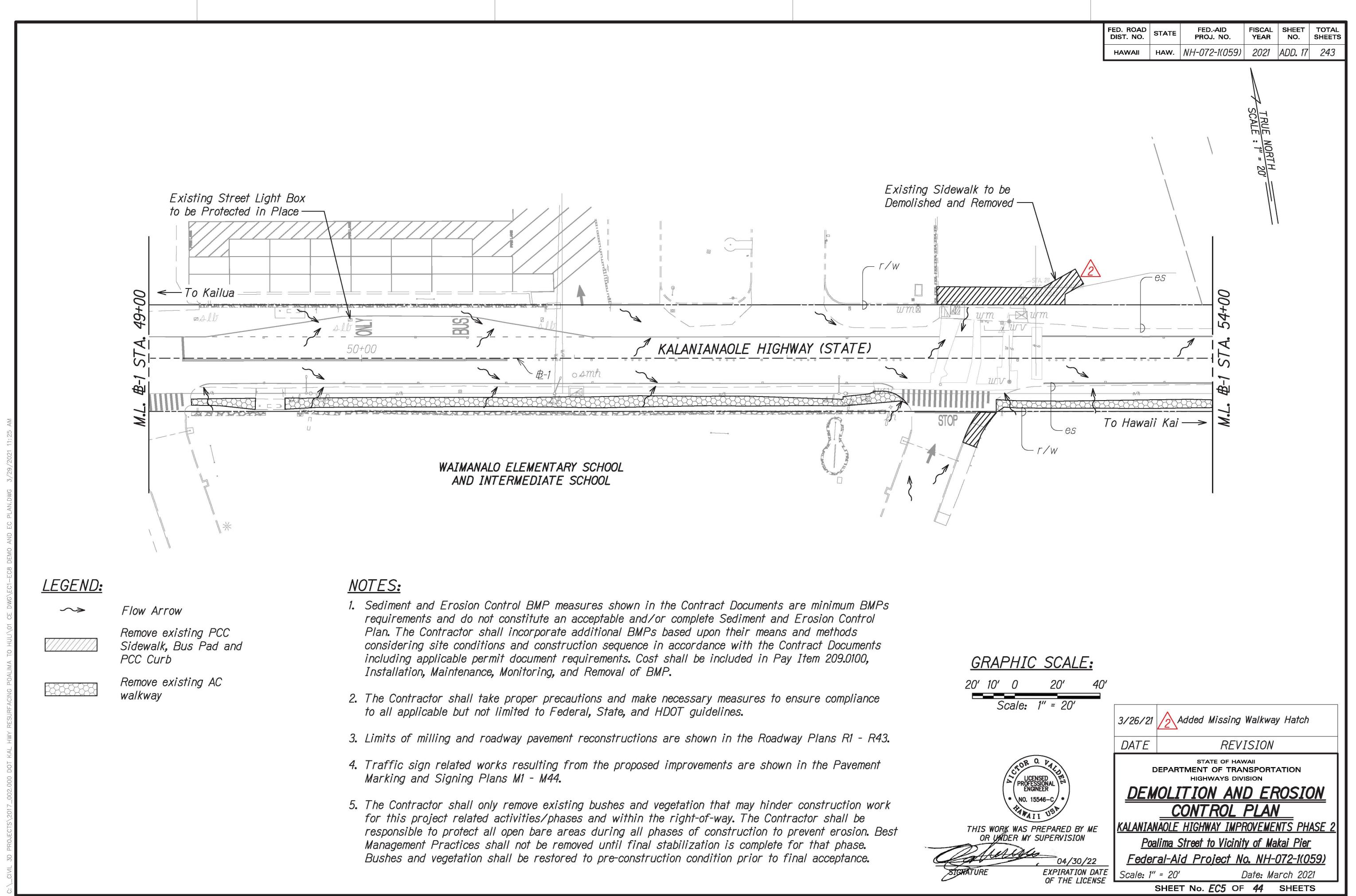
## <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

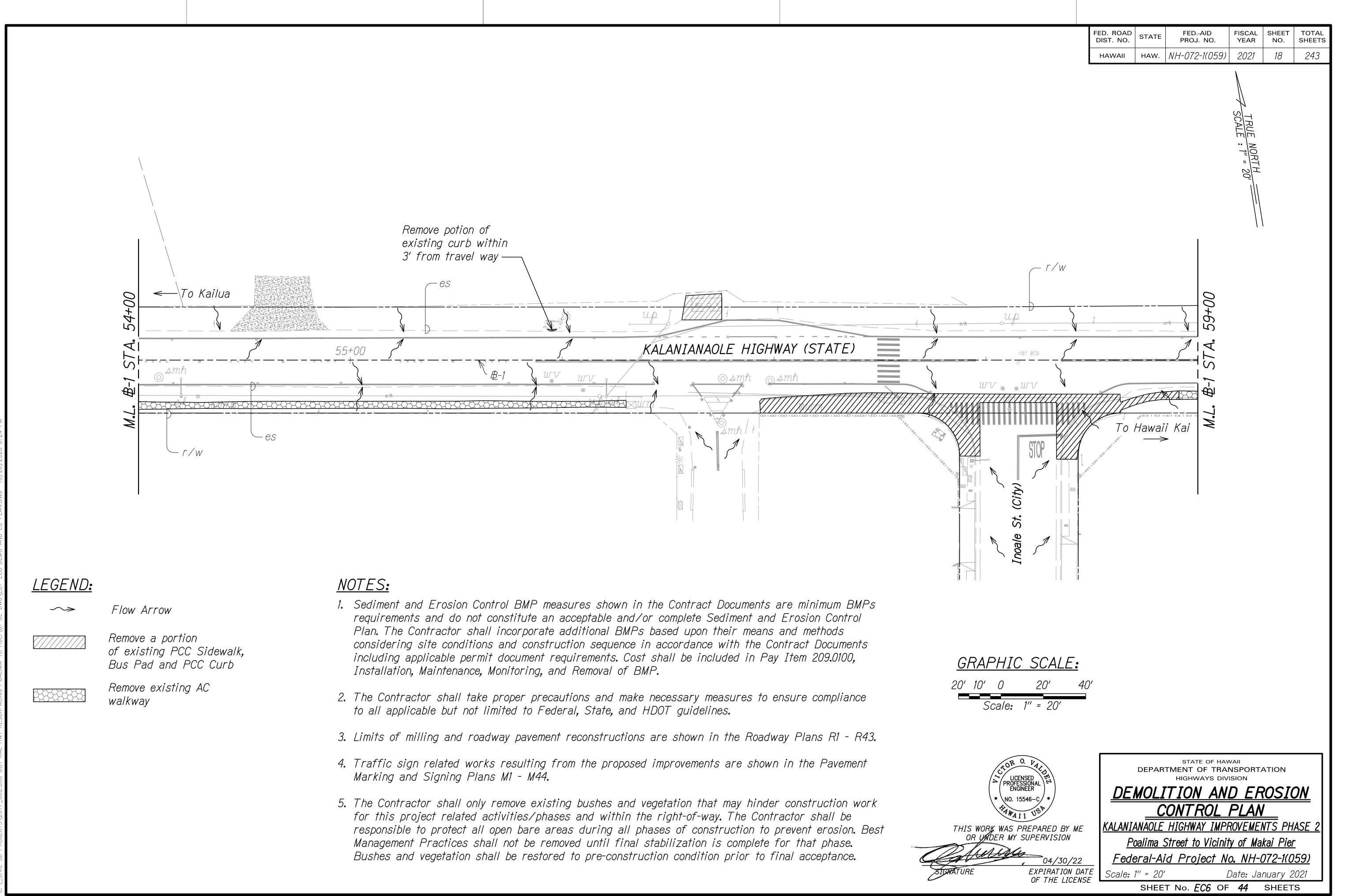
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

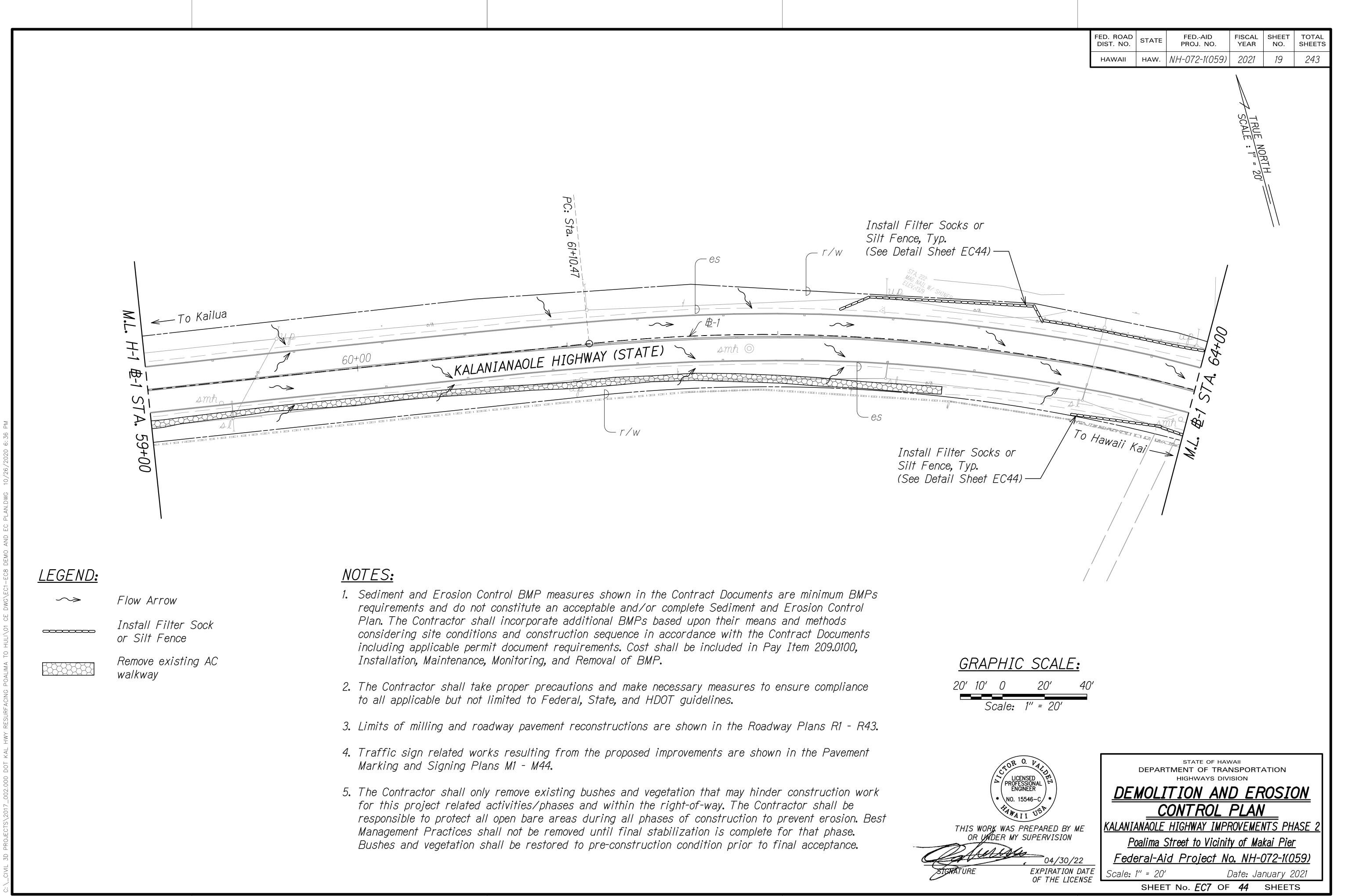
Poalima Street to Vicinity of Makai Pier

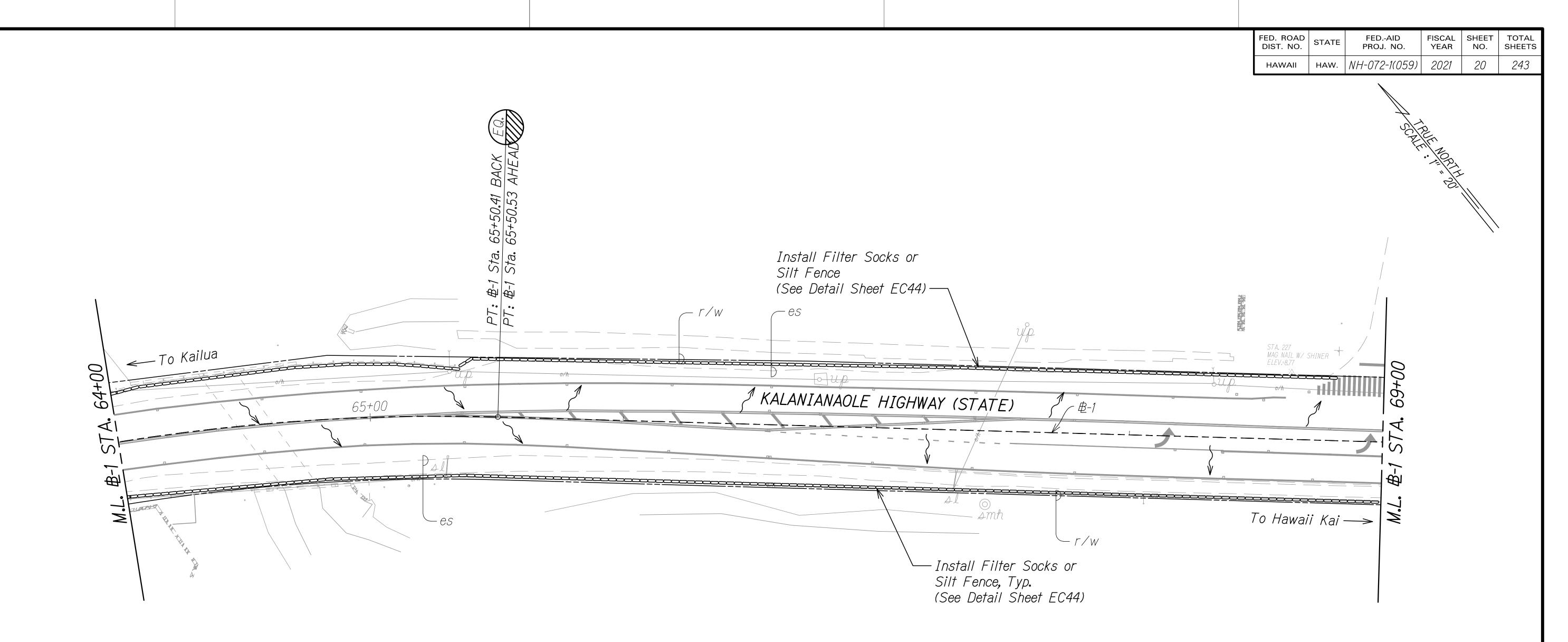
Federal-Aid Project No. NH-072-1(059)
Scale: 1" = 20' Date: January 2021

SHEET No. *EC4* OF *44* SHEETS







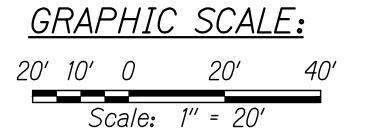


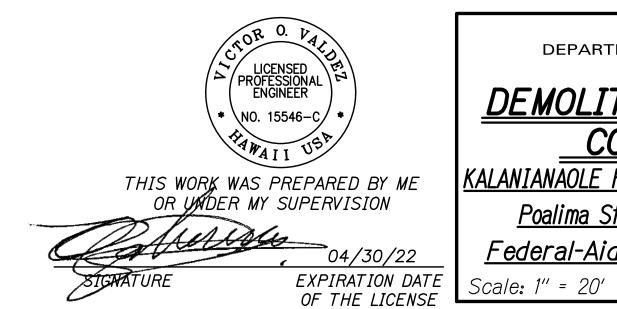
Flow Arrow

Install Filter Sock or Silt Fence

#### NOTES:

- 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.
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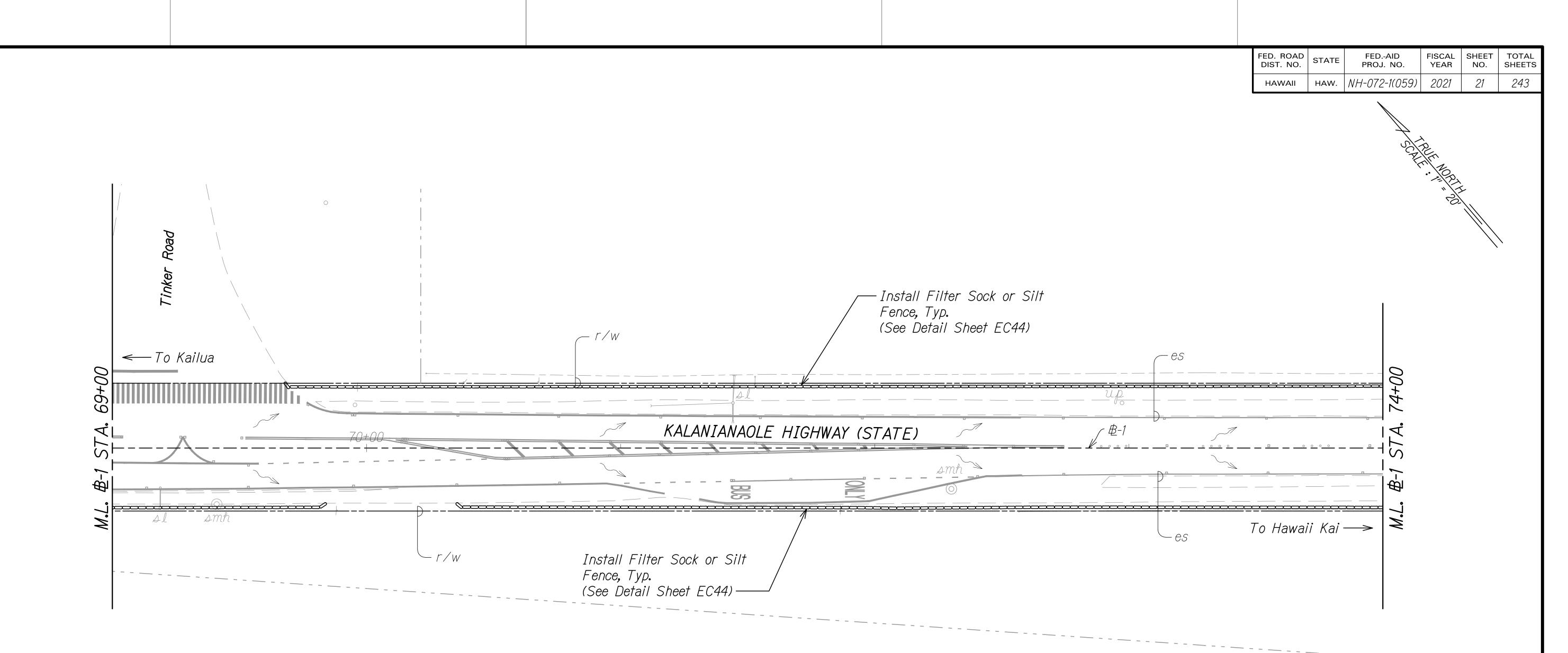


STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

## DEMOLITION AND EROSION CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier Federal-Aid Project No. NH-072-1(059)

Date: January 2021 SHEET No. *EC8* OF *44* SHEETS

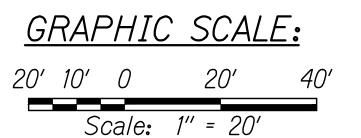


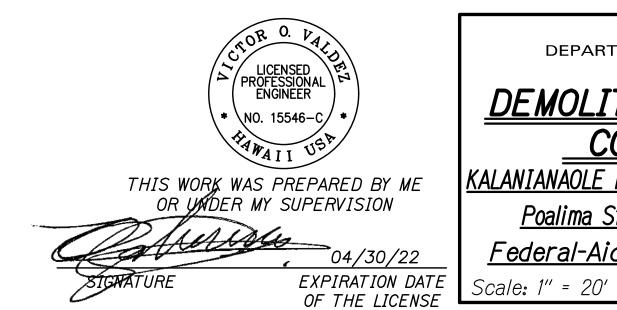
Flow Arrow

Install Filter Sock or Silt Fence

#### NOTES:

- 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.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

#### <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

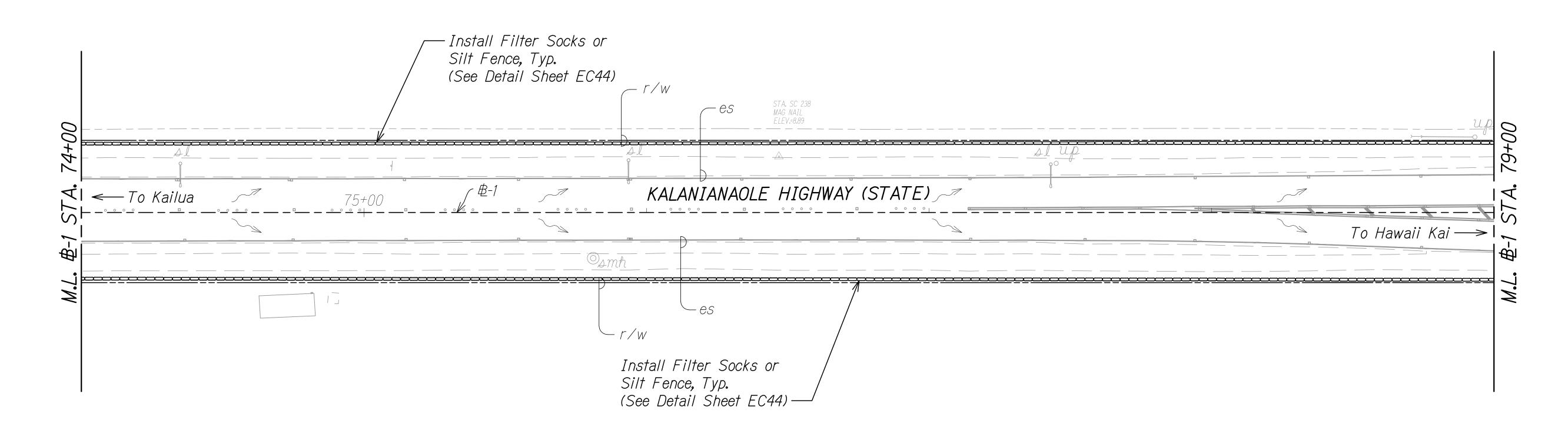
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)
Scale: 1" = 20' Date: January 2021

SHEET No. *EC9* OF *44* SHEETS

FED.-AID PROJ. NO. YEAR NH-072-1(059) 2021

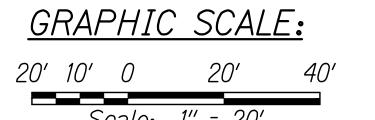


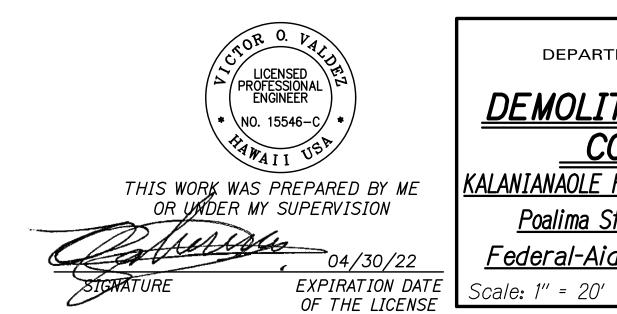
LEGEND:

Flow Arrow Install Filter Sock or Silt Fence

#### NOTES:

- 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.
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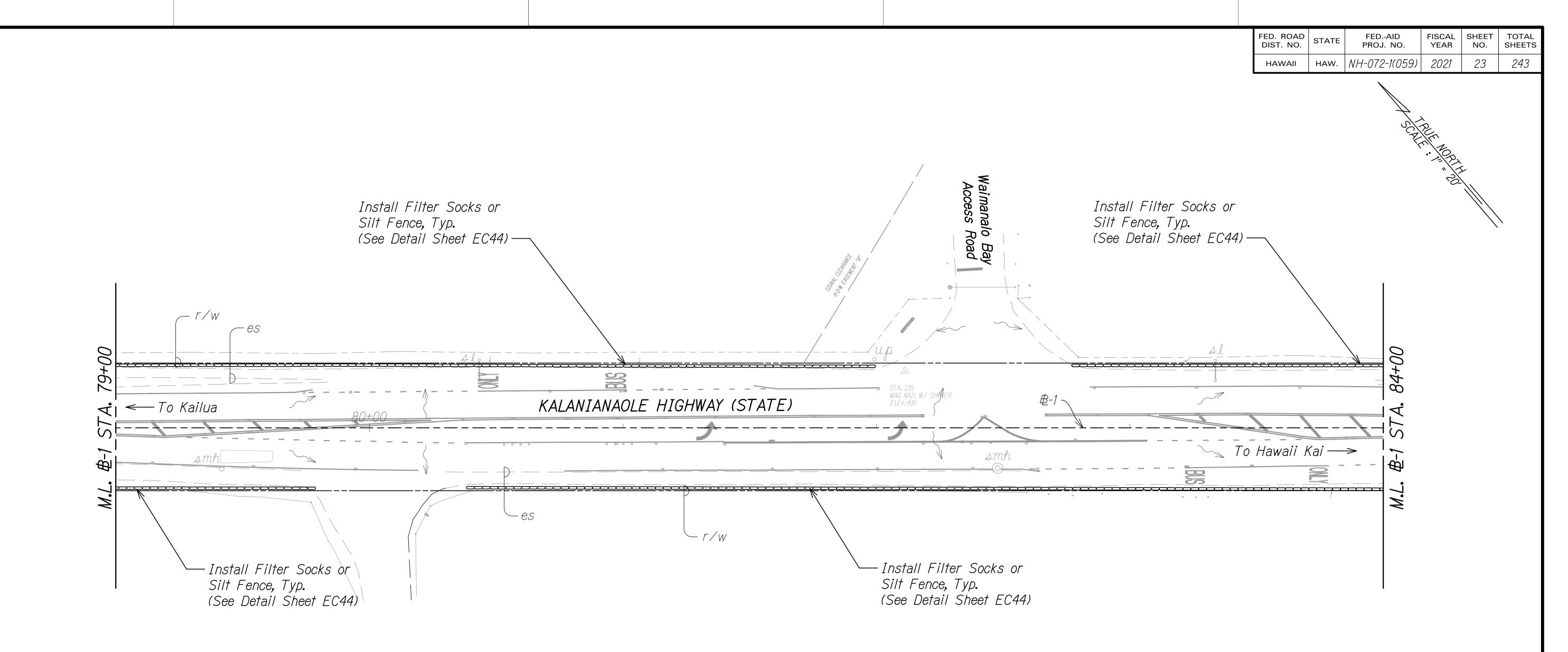
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

## **DEMOLITION AND EROSION** CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Date: January 2021 SHEET No. *EC10* OF *44* SHEETS

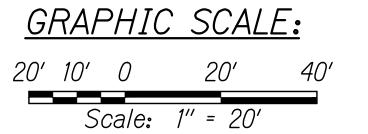


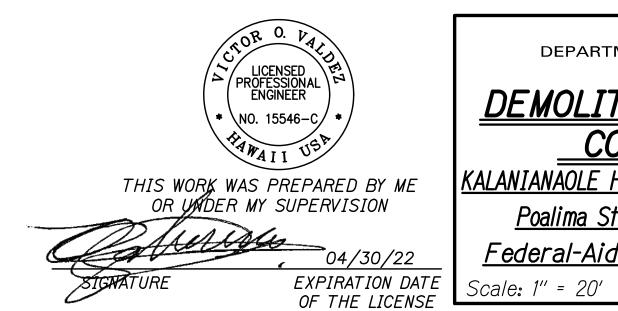
Flow Arrow

Install Filter Sock or Silt Fence

#### NOTES:

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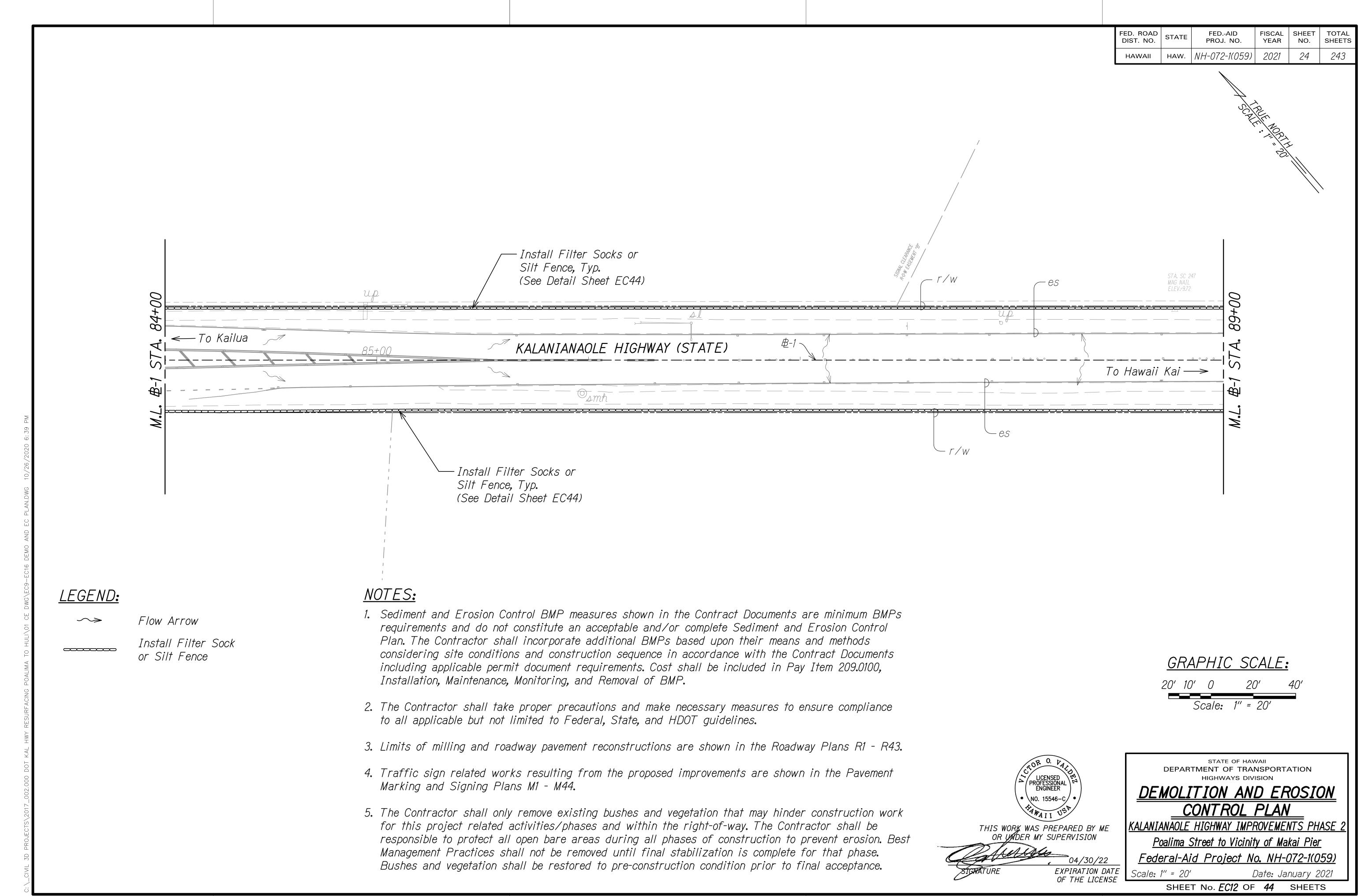
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

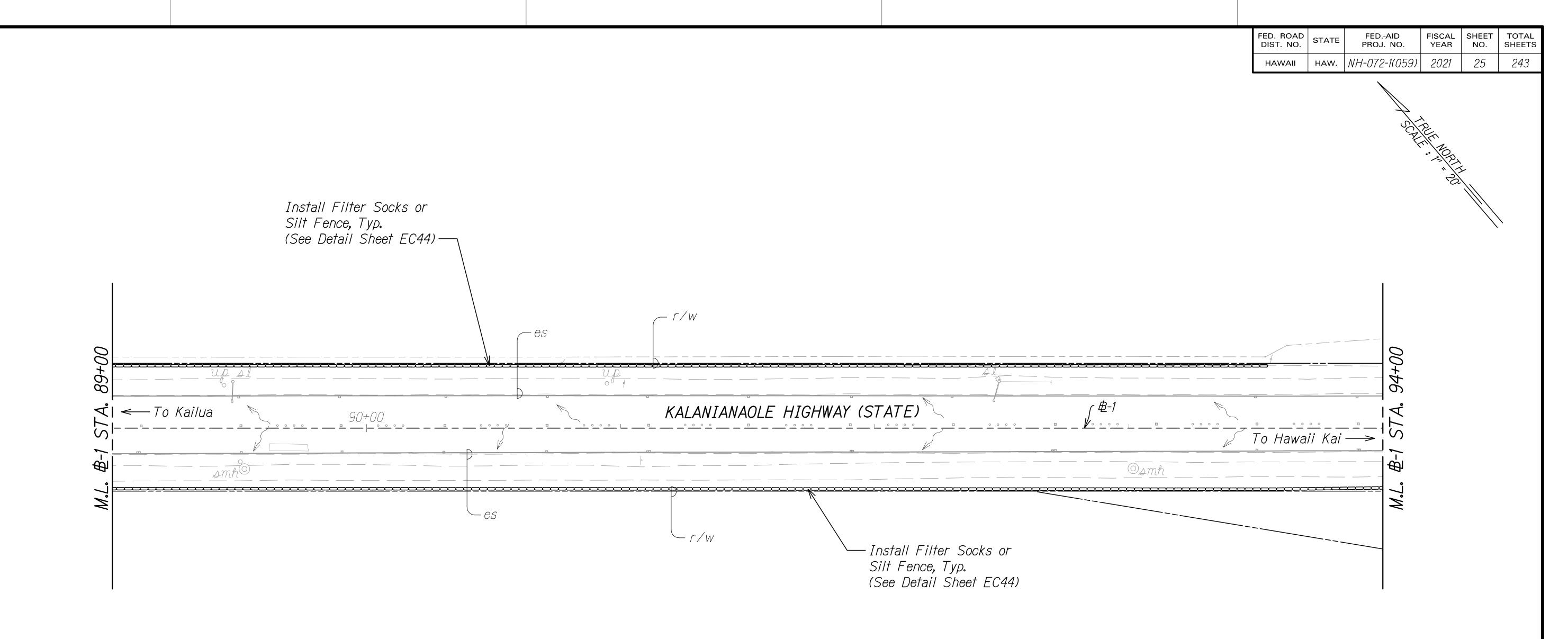
DEMOLITION AND EROSION CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059) Date: January 2021

SHEET No. *EC11* OF 44 SHEETS



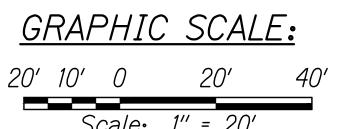


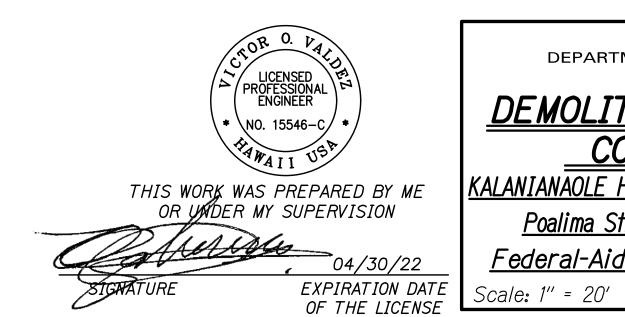
Flow Arrow

Install Filter Sock or Silt Fence

#### NOTES:

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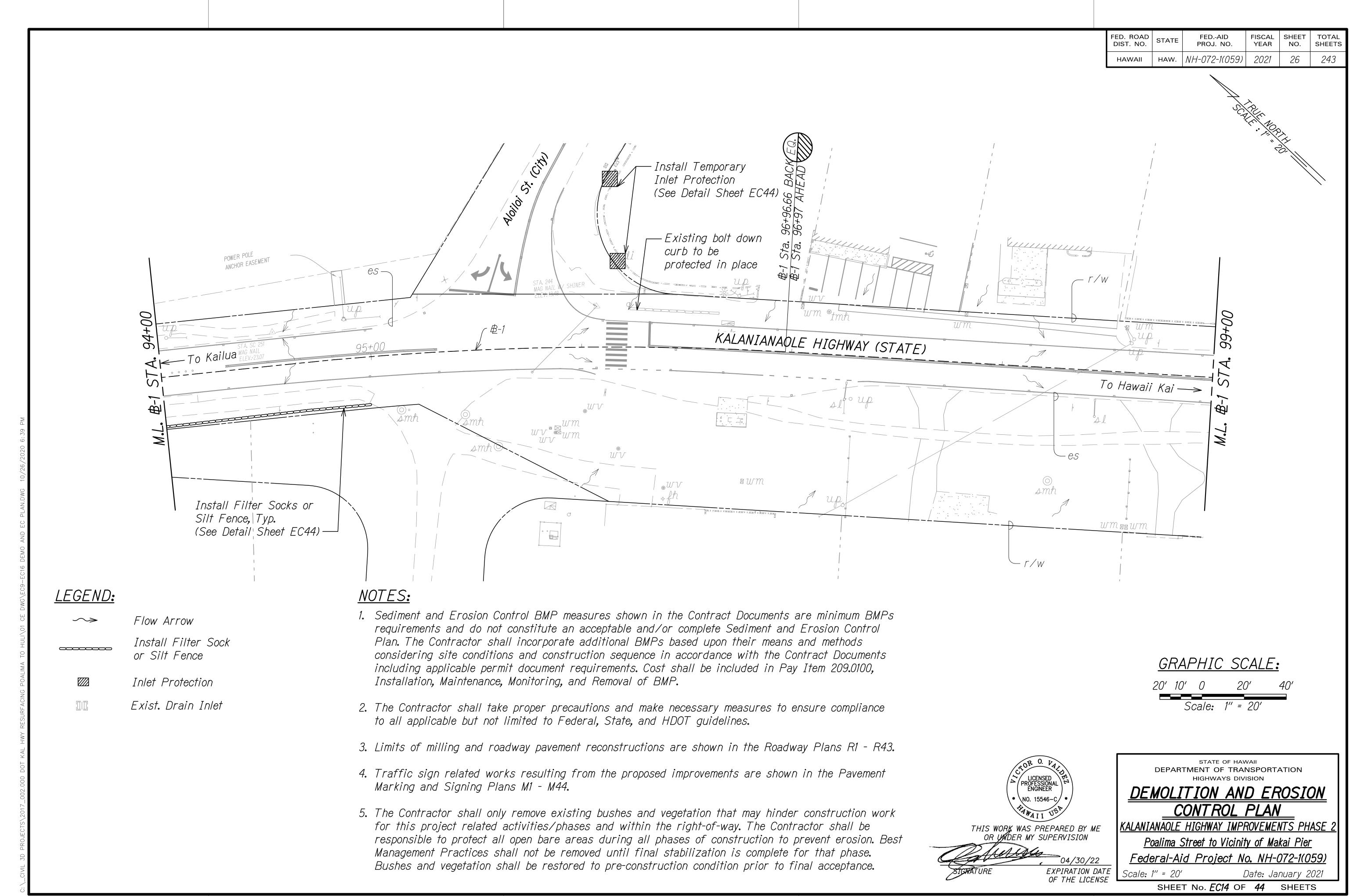
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

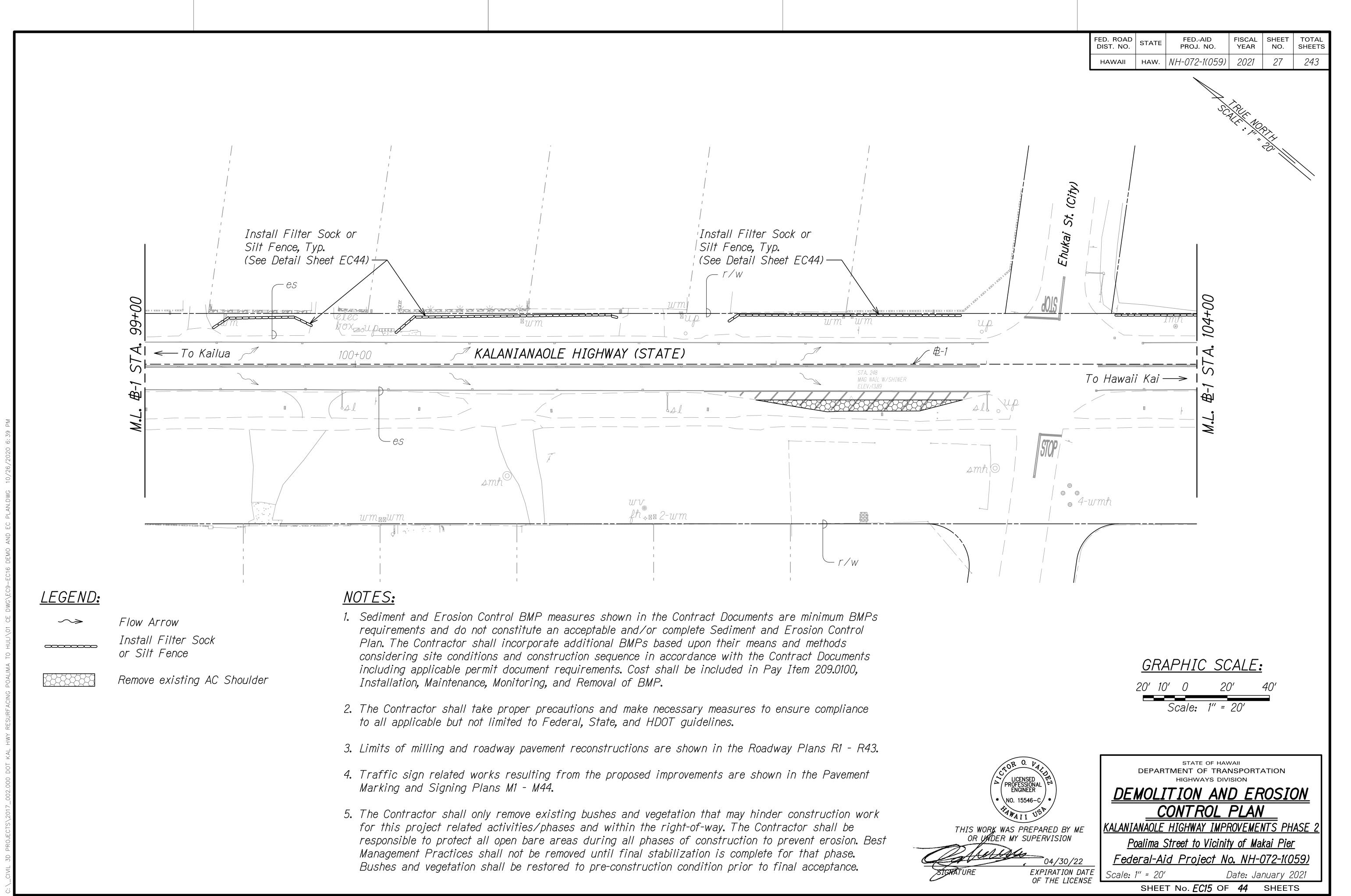
## **DEMOLITION AND EROSION** CONTROL PLAN

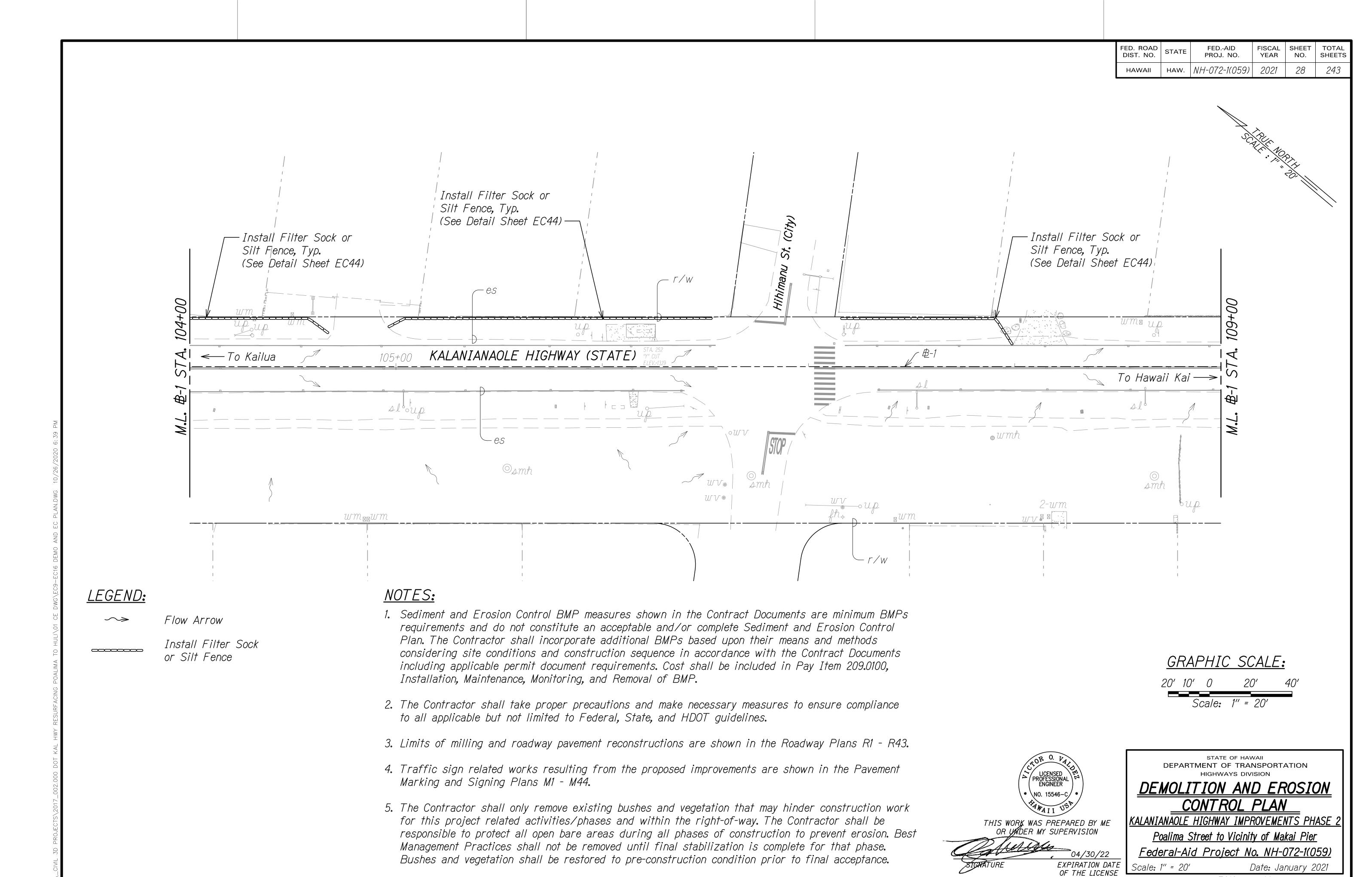
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Date: January 2021 SHEET No. *EC13* OF *44* SHEETS





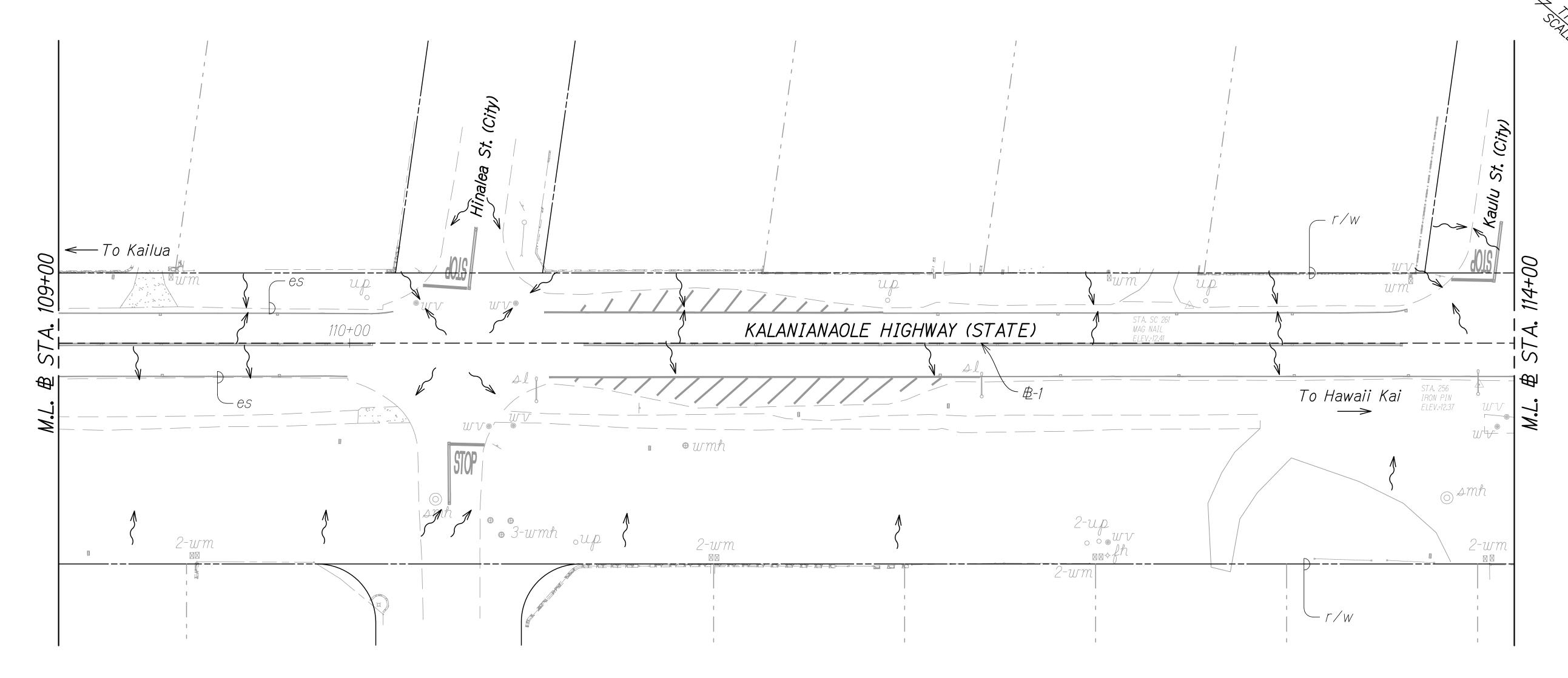


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SHEET No. *EC16* OF 44 SHEETS

FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. NH-072-1(059) 2021 29 243

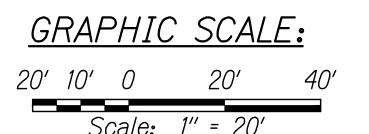


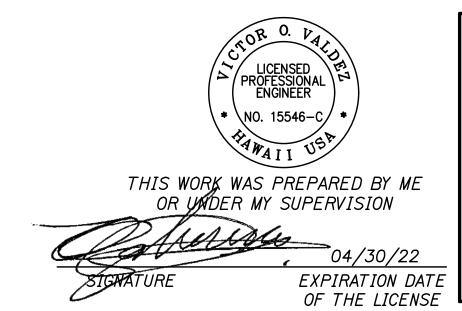
**LEGEND:** 

Flow Arrow

#### NOTES:

- 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.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

#### <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Scale: 1" = 20'

Date: January 2021

SHEET No. *EC17* OF *44* SHEETS

FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR SHEET NO. STATE NH-072-1(059) 2021 30 To Hawaii Kai --> STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

LEGEND:

Flow Arrow Install Filter Sock or Silt Fence

← To Kailua

## NOTES:

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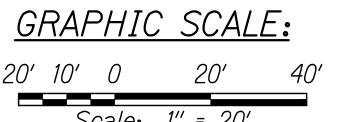
Install Filter Sock or

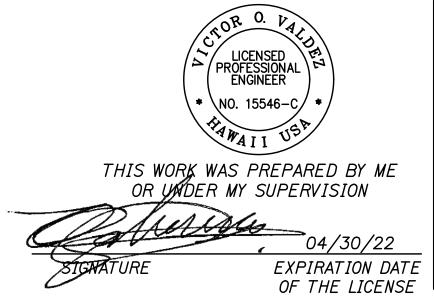
(See Detail Sheet EC44) -

KALANIANAOLE HIGHWAY (STATE)

Silt Fence, Typ.

- 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.
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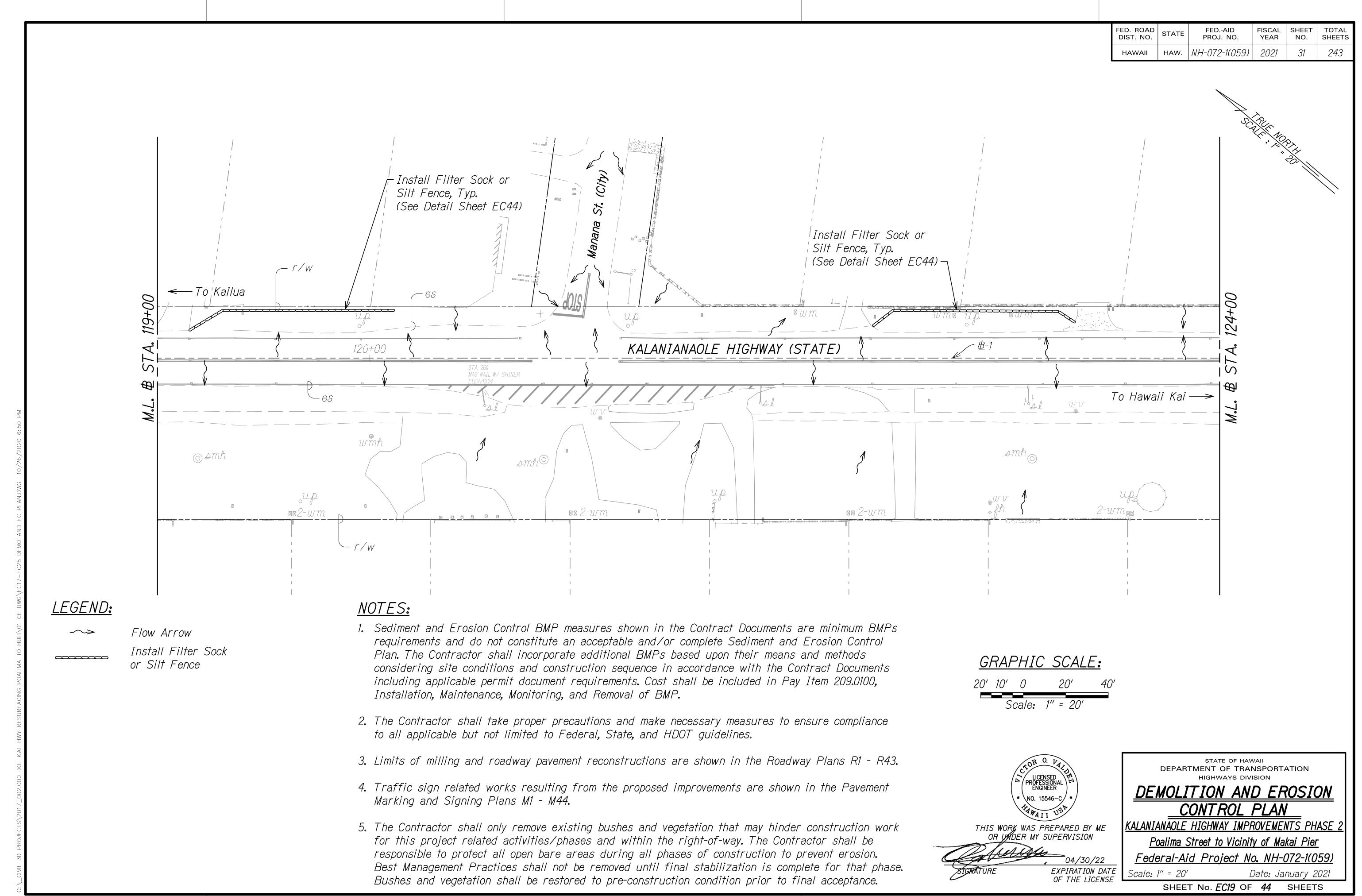


## **DEMOLITION AND EROSION** CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20'

Date: January 2021 SHEET No. *EC18* OF *44* SHEETS



FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR SHEET NO. STATE NH-072-1(059) 2021 32 (City) Install Filter Sock or Silt Fence, Typ. (See Detail Sheet EC44 To Kailua 9 KALANIANAOLE HIGHWAY (STATE) 125+00 To Hawaii Kai • wmh wmh  $\bigcirc$   $\triangle$  mh0 Amh Amh () NOTES: LEGEND: 1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs Flow Arrow 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 Install Filter Sock **GRAPHIC SCALE:** considering site conditions and construction sequence in accordance with the Contract Documents or Silt Fence including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Installation, Maintenance, Monitoring, and Removal of BMP. 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines. 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 - R43. STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement **DEMOLITION AND EROSION** Marking and Signing Plans M1 - M44. \NO. 15546-C/ ' CONTROL PLAN 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

for this project related activities/phases and within the right-of-way. The Contractor shall be

responsible to protect all open bare areas during all phases of construction to prevent erosion.

Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.

Best Management Practices shall not be removed until final stabilization is complete for that phase.

SHEET No. *EC20* OF 44 SHEETS

Date: January 2021

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

04/30/22

EXPIRATION DATE OF THE LICENSE

Scale: 1" = 20'

32

FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR SHEET TOTAL NO. SHEETS STATE HAW. *NH-072-1(059)* 2021 33 Install Temporary WAIMANALO | Inlet Protection, Typ. Install Temporary BEACH PARK (See Detail Sht. EC44) — Inlet Protection, Typ. 57. (See Detail Sht. EC44) + - Install Temporary Existing bolt down Inlet Protection, Typ. Moderate Control of the Control of t curb to be removed (See Detail Sht. EC44) <del>✓ ;</del> To | Kailua wm aKALANIANAOLE HIGHWAY (STATE) 130+00 ₽-1 wmh⊕ To Hawaii Kai —> -Existing bolt down curb to be removed owmh oup wmho NOTES: LEGEND: 1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs Flow Arrow 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 Inlet Protection considering site conditions and construction sequence in accordance with the Contract Documents **GRAPHIC SCALE:** including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, Existing Drain Inlet Installation, Maintenance, Monitoring, and Removal of BMP. Scale: 1" = 20' 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines. 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 - R43. STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement DEMOLITION AND EROSION Marking and Signing Plans M1 - M44. NO. 15546-C/ CONTROL PLAN 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION for this project related activities/phases and within the right-of-way. The Contractor shall be Poalima Street to Vicinity of Makai Pier responsible to protect all open bare areas during all phases of construction to prevent erosion. Federal-Aid Project No. NH-072-1(059)

Best Management Practices shall not be removed until final stabilization is complete for that phase.

Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.

33

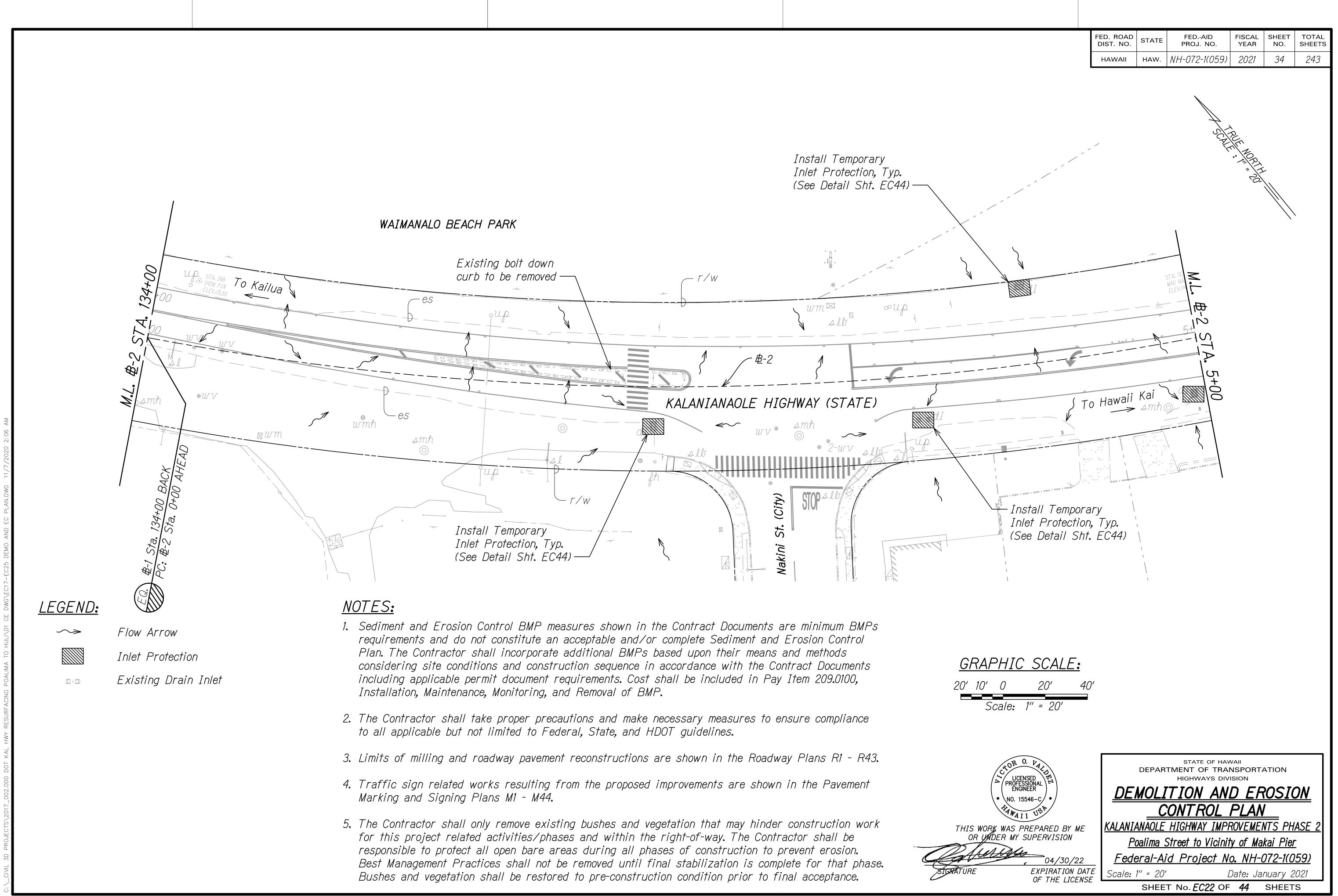
SHEET No. *EC21* OF 44 SHEETS

Date: January 2021

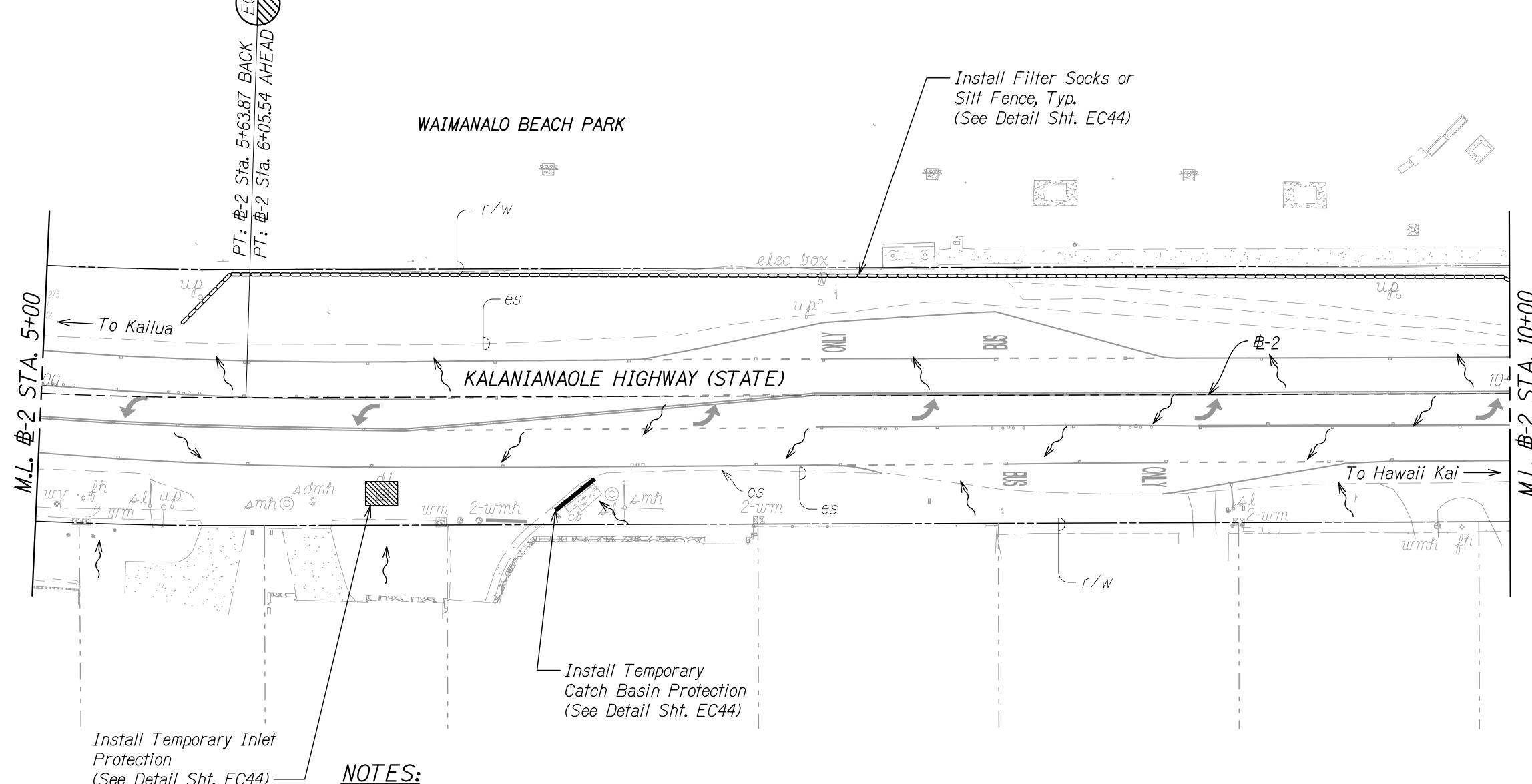
<sup>-</sup>04/30/22

EXPIRATION DATE OF THE LICENSE

Scale: 1" = 20'



FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR HAW. *NH-072-1(059)* 2021



LEGEND:

Flow Arrow

Catch Basin Protection

(See Detail Sht. EC44) ——



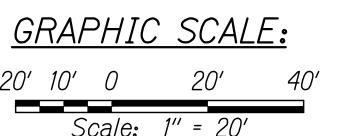
Inlet Protection

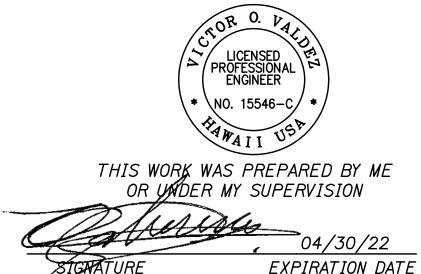


Existing Drain Inlet

Install Filter Sock or Silt Fence

- 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.
- 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines.
- 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 R43.
- 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 - M44.
- 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work for this project related activities/phases and within the right-of-way. The Contractor shall be responsible to protect all open bare areas during all phases of construction to prevent erosion. Best Management Practices shall not be removed until final stabilization is complete for that phase. Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

**DEMOLITION AND EROSION** CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059) EXPIRATION DATE
OF THE LICENSE

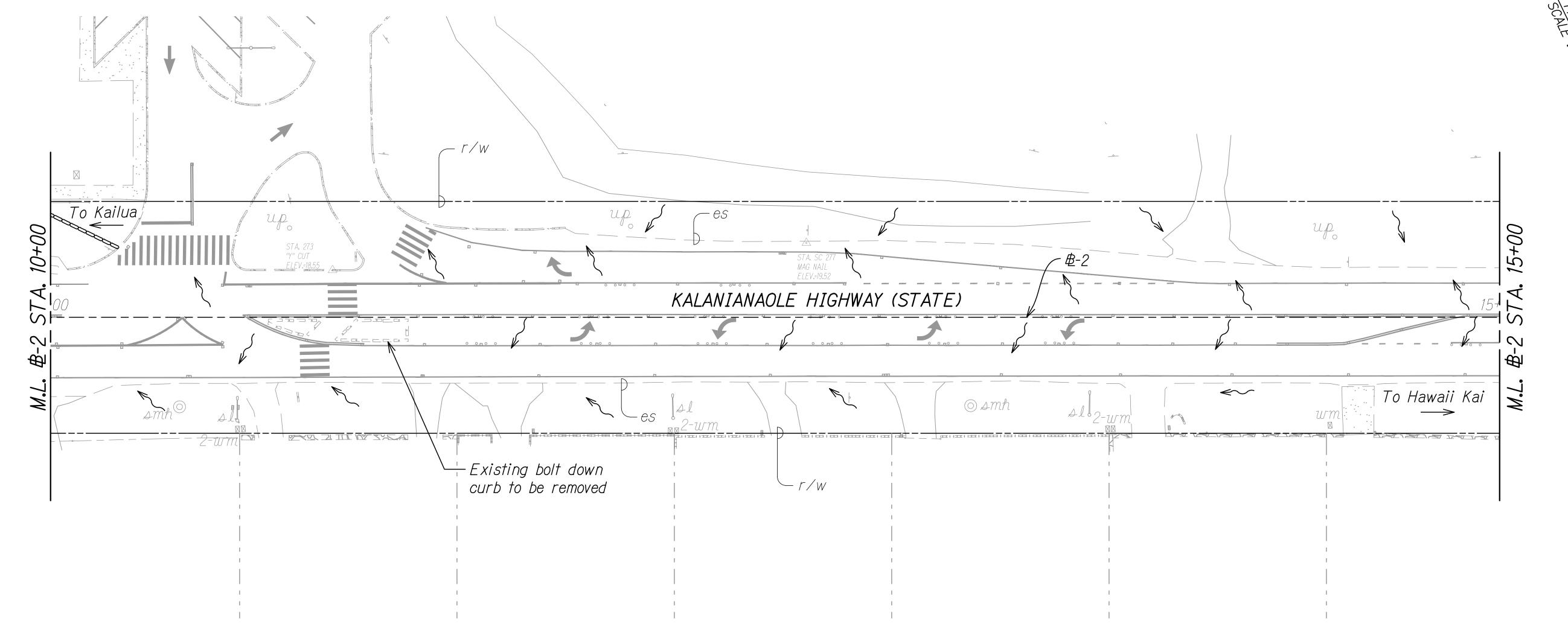
Scale: 1" = 20'

Date: January 2021

SHEET No. *EC23* OF *44* SHEETS

FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. NH-072-1(059) 2021 36 243

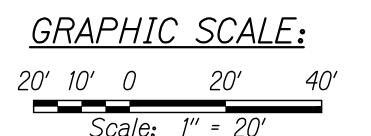


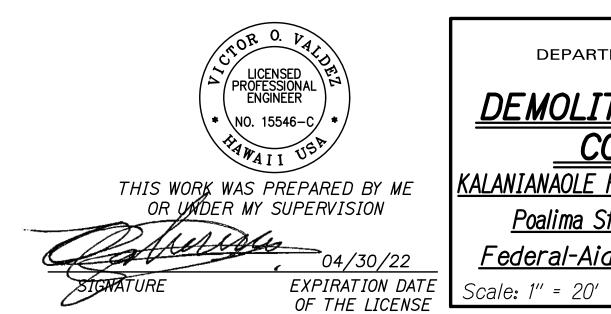
**LEGEND:** 

Flow Arrow

## NOTES:

- 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.
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

## <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

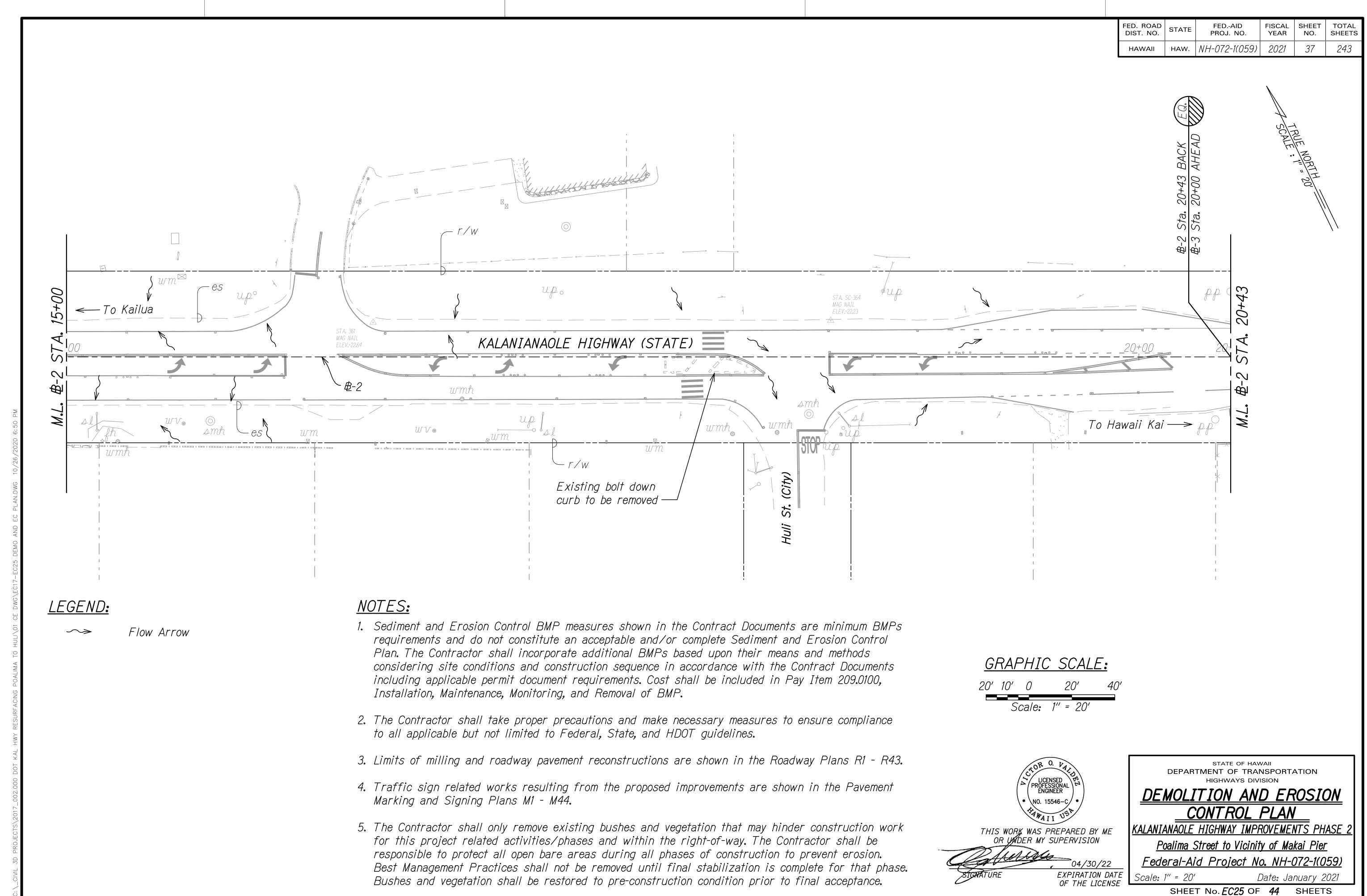
Poalima Street to Vicinity of Makai Pier

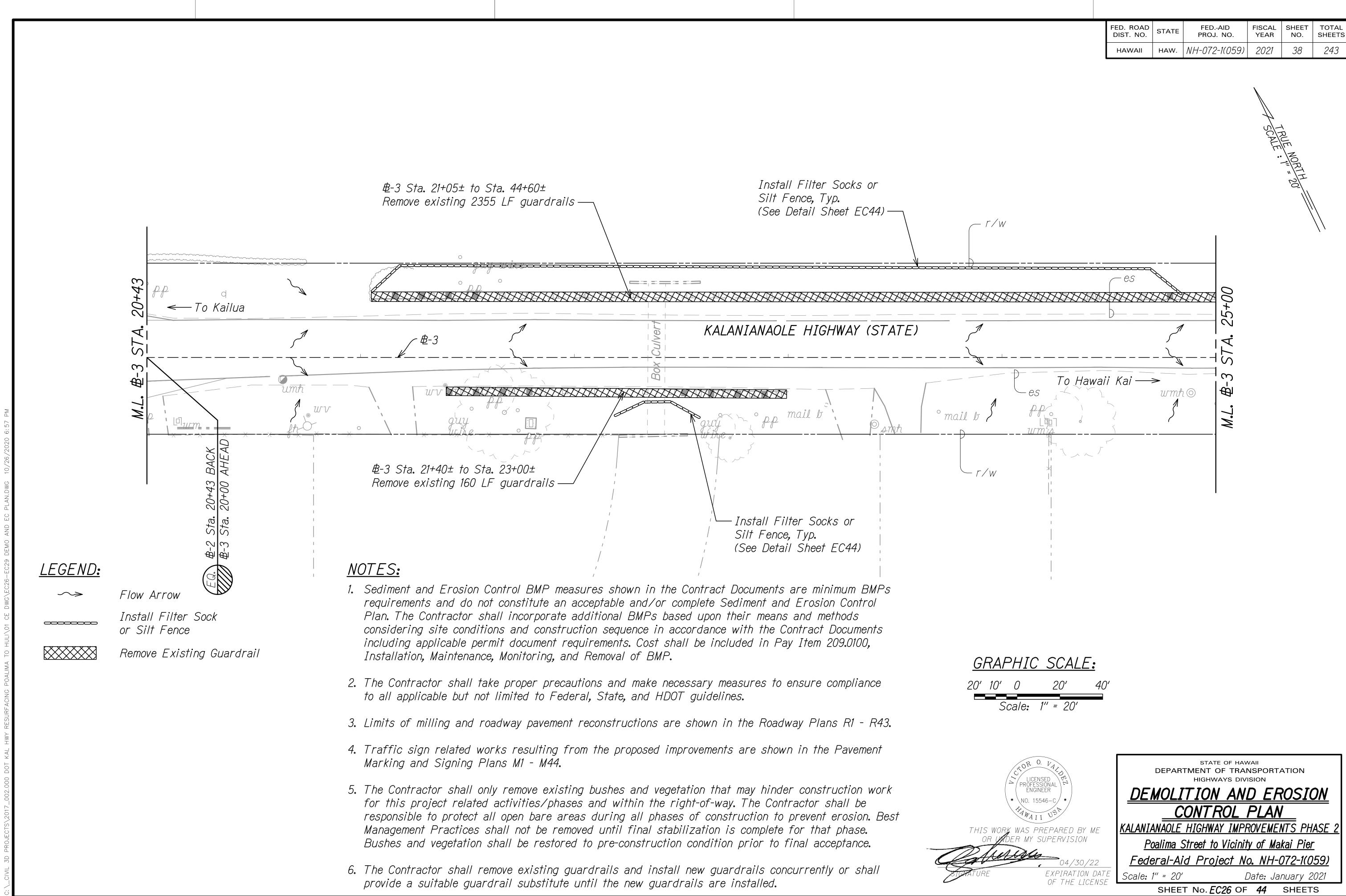
Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date: January 2021

" = 20' Date: January 2021
SHEET No. *EC24* OF 44 SHEETS

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FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR STATE NH-072-1(059) 2021 39 To Hawaii Kai --> STATE OF HAWAII DEPARTMENT OF TRANSPORTATION DEMOLITION AND EROSION CONTROL PLAN

← To Kailua 〜 KALANIANAOLE HIGHWAY (STATE) mail b mail l NOTES:

> Installation, Maintenance, Monitoring, and Removal of BMP. 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines.

including applicable permit document requirements. Cost shall be included in Pay Item 209.0100,

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

considering site conditions and construction sequence in accordance with the Contract Documents

Plan. The Contractor shall incorporate additional BMPs based upon their means and methods

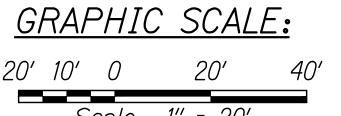
LEGEND:

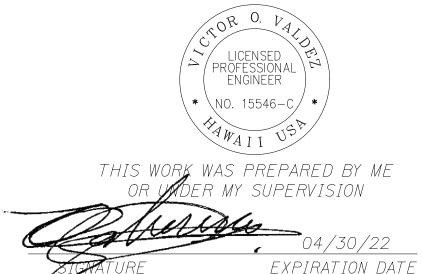
Flow Arrow

Remove Existing Guardrail

3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 - R43.

- 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 - M44.
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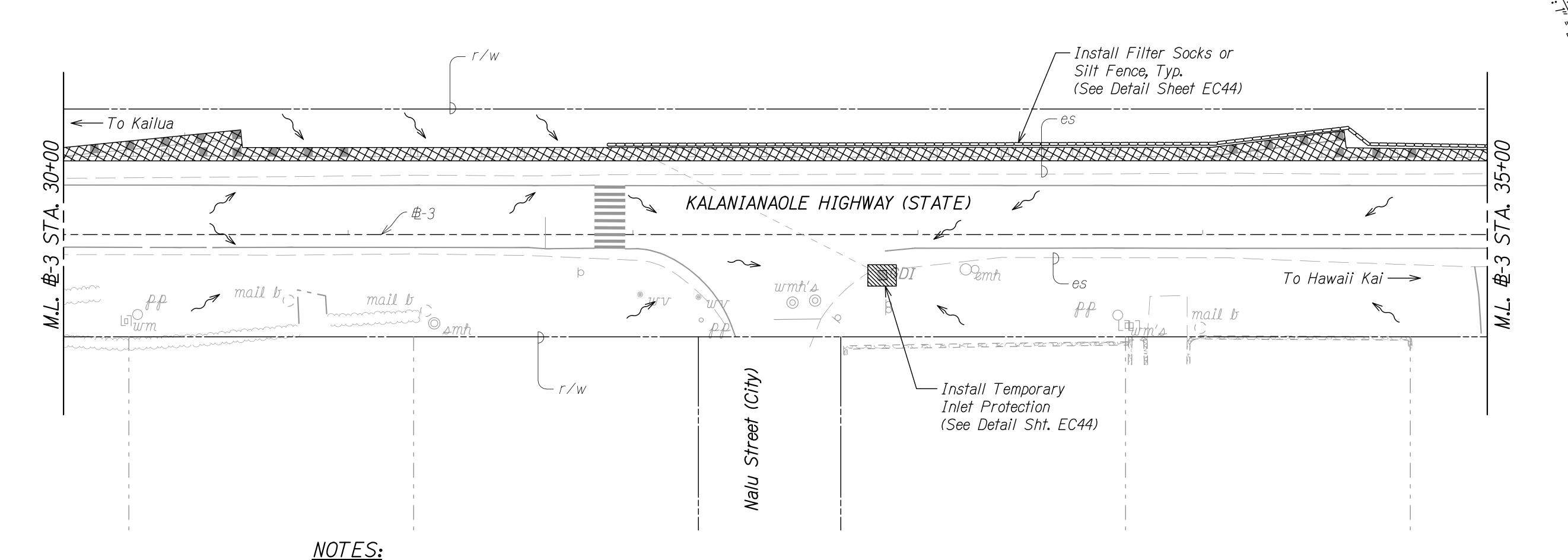
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059) Scale: 1" = 20' Date: January 2021

SHEET No. *EC2*7 OF *44* SHEETS

FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. NH-072-1(059) 2021 40 243



**LEGEND:** 

Flow Arrow

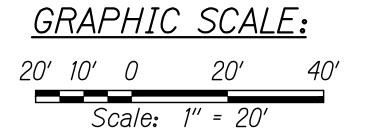
Install Filter Sock or Silt Fence

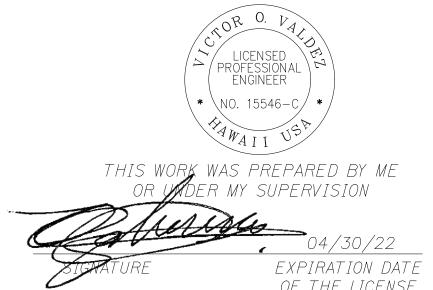
Remove Existing Guardrail



Inlet Protection

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

## <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20'

" = 20' Date: January 2021
SHEET No. *EC28* OF 44 SHEETS

8 OF 44

FED. ROAD DIST. NO. FISCAL YEAR FED.-AID PROJ. NO. HAW. *NH-072-1(059)* 2021 To Hawaii Kai --->

LEGEND:

Flow Arrow

Install Filter Sock or Silt Fence

Remove Existing Guardrail

← To Kailua

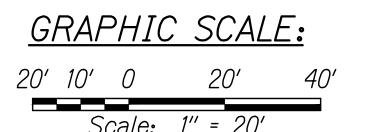
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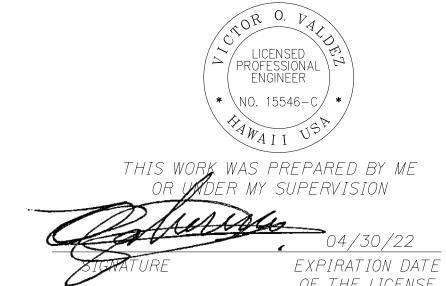
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1. Sediment and Erosion Control BMP measures shown in the Contract Documents are minimum BMPs requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Plan. The Contractor shall incorporate additional BMPs based 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.

KALANIANAOLE HIGHWAY (STATE)

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-Install Filter Socks or

(See Detail Sheet EC44)

Silt Fence, Typ.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

# <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date: January 2021

SHEET No. *EC29* OF 44 SHEETS

1

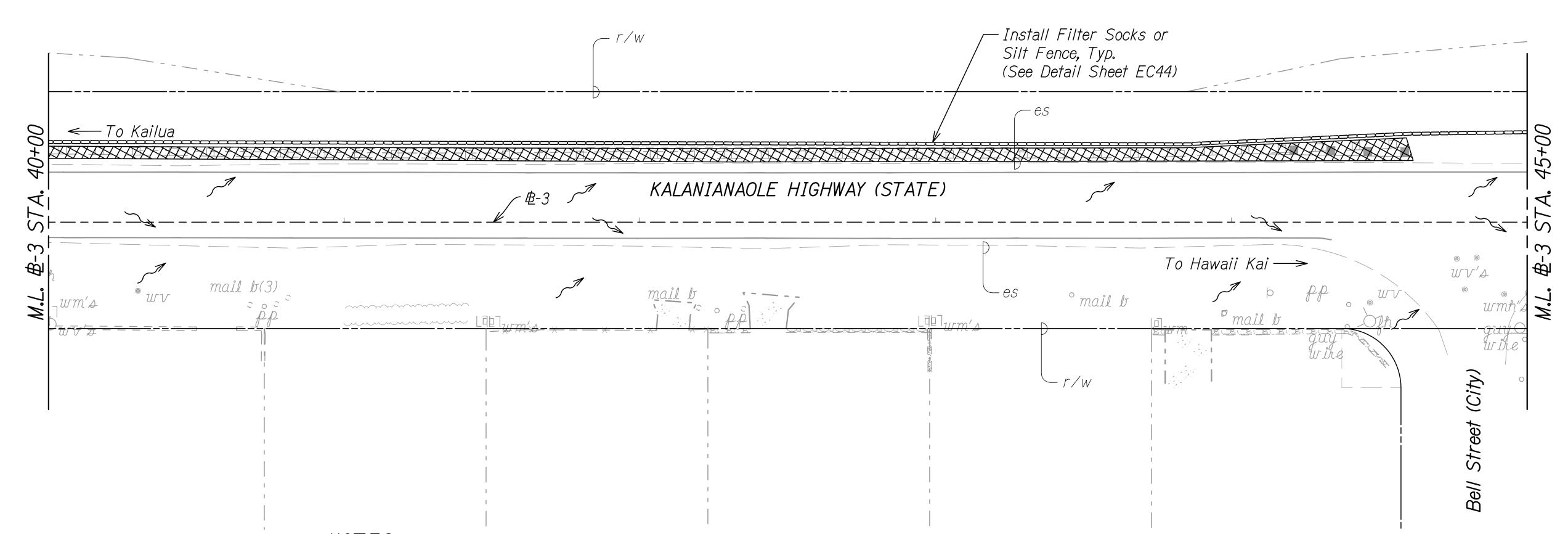
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CING POALIMA TO HULI\01 CE DWG\EC26—EC29 DEMO AND EC PL,

C: \\_CIVIL 3D PROJEC

FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET TOTAL SHEETS

HAWAII HAW. NH-072-1(059) 2021 42 243



LEGEND:

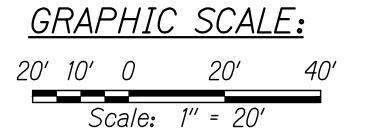
Flow Arrow

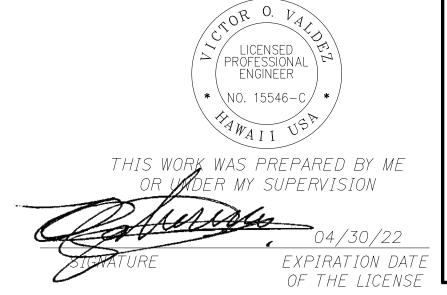
Install Filter Sock or Silt Fence

Remove Existing Guardrail

#### NOTES:

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

## <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

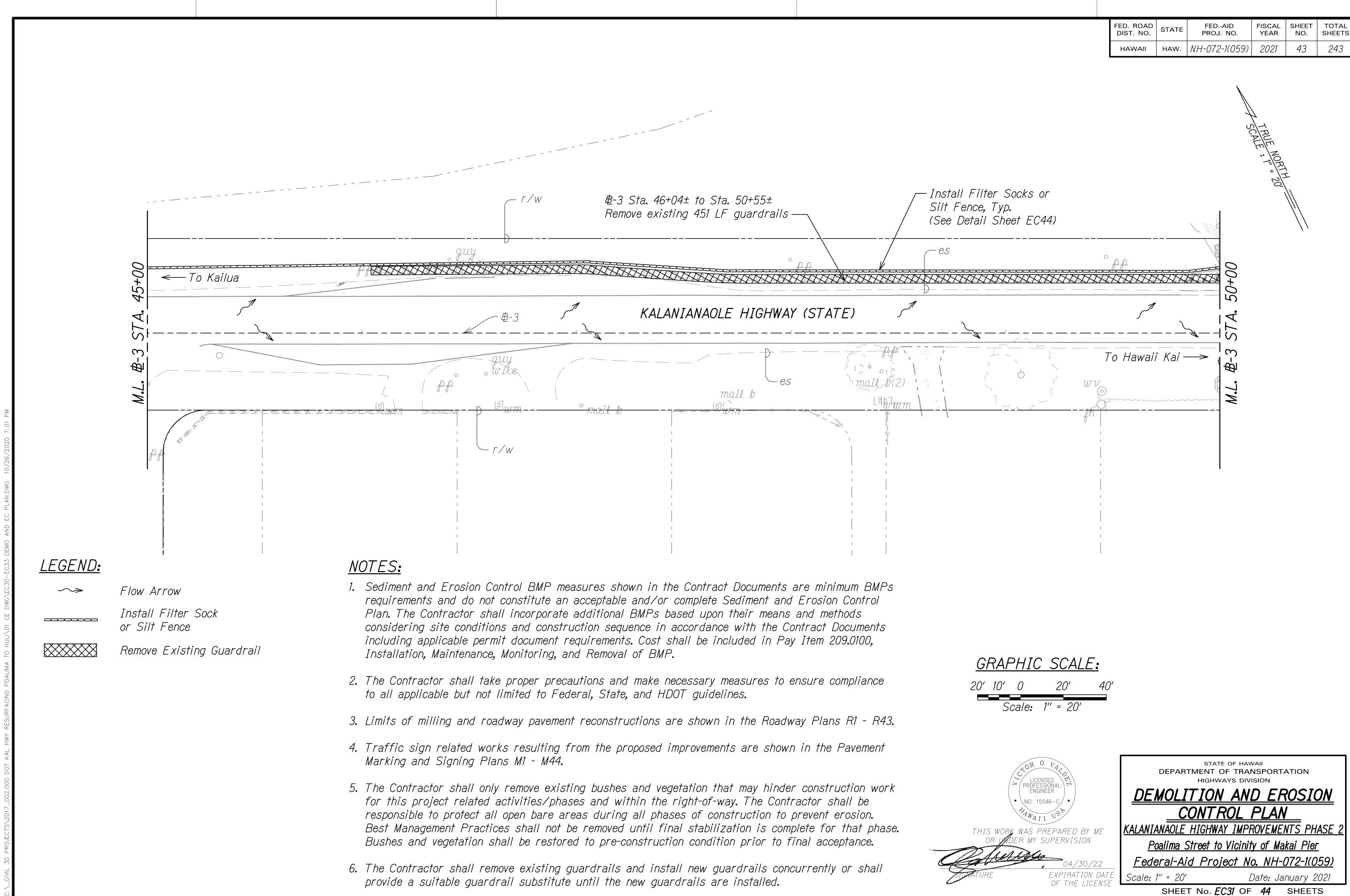
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

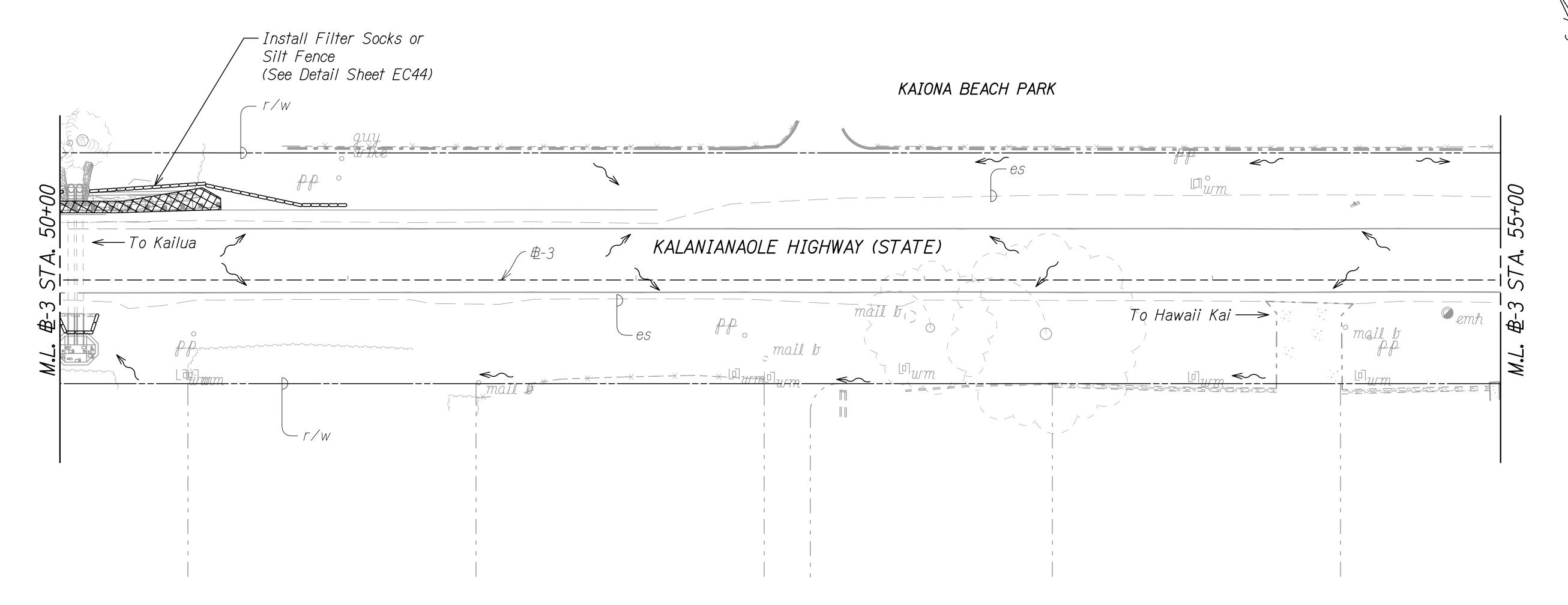
Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date:

*" = 20' Date: January 2021*SHEET No. *EC30* OF *44* SHEETS



FED. ROAD DIST. NO.	STATE	FEDAID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(059)	2021	44	243



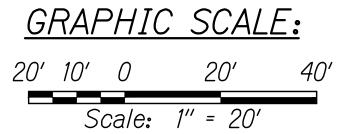
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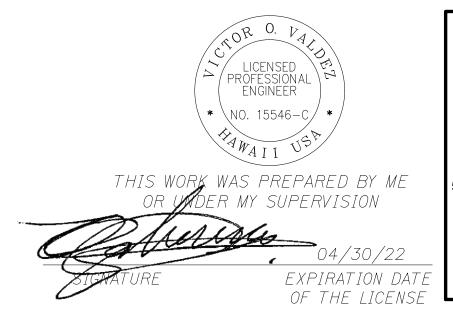
Install Filter Sock or Silt Fence

Remove Existing Guardrail

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

#### <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date: January 2021

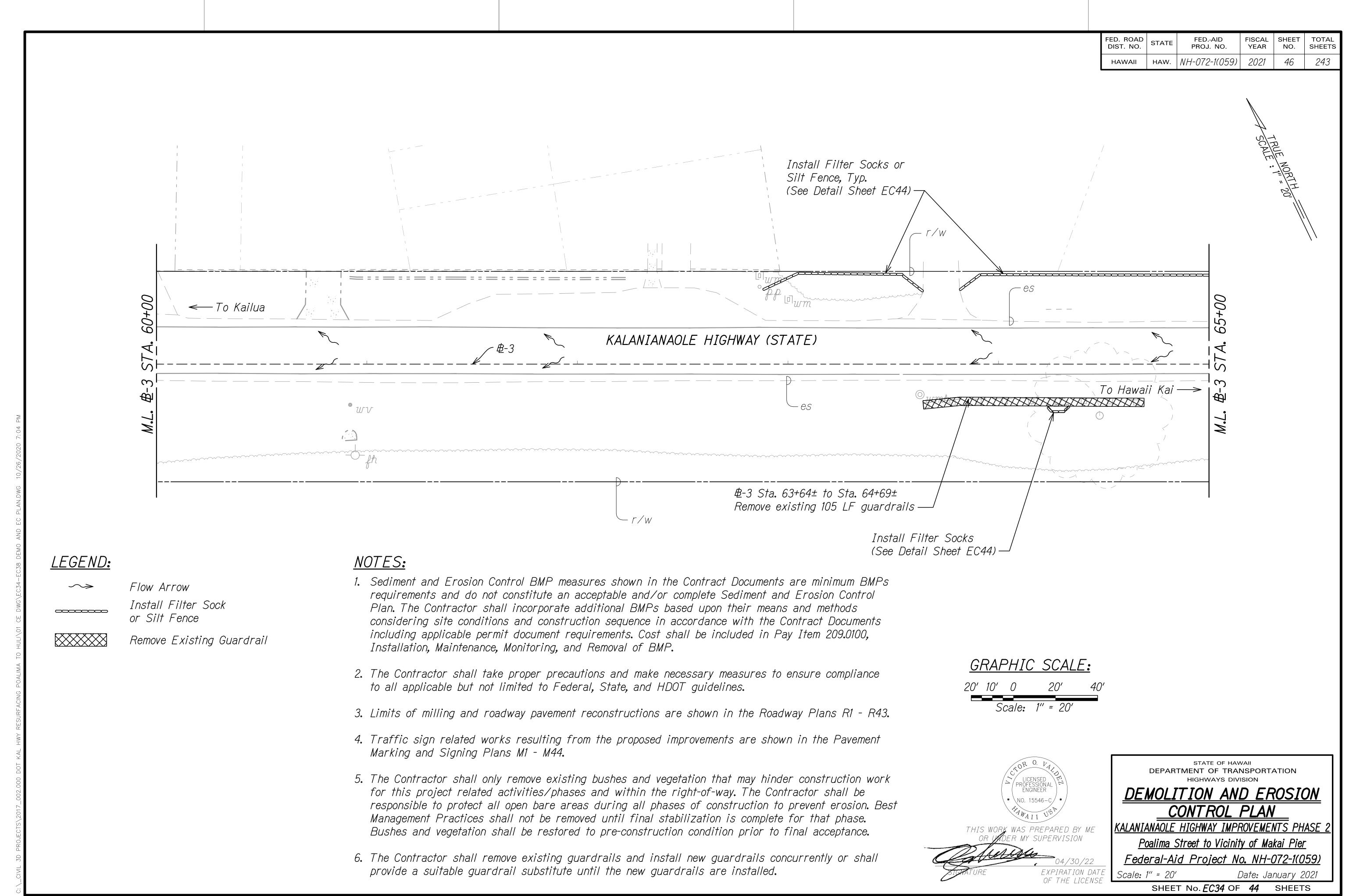
SHEET No. *EC32* OF 44 SHEETS

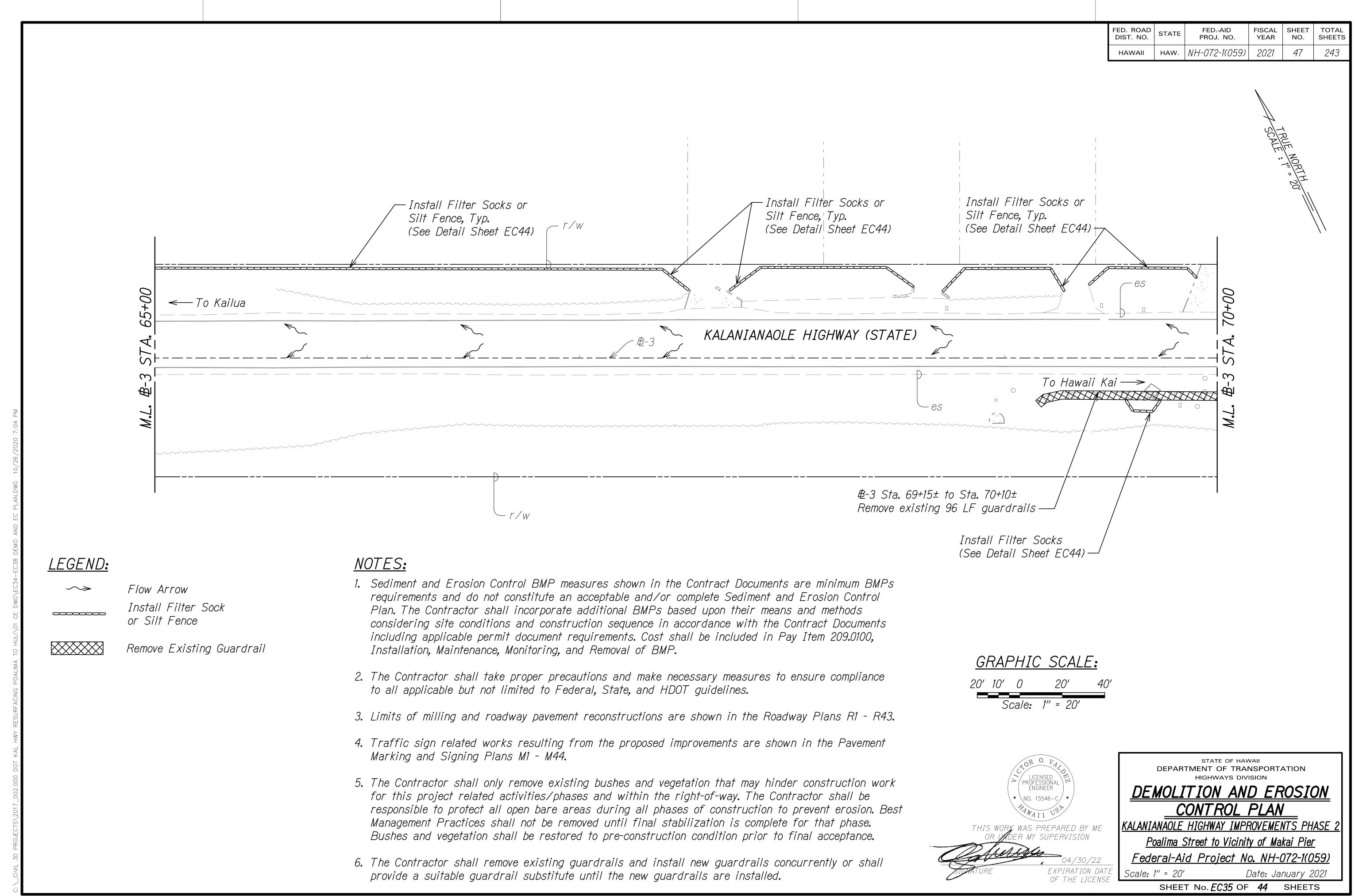
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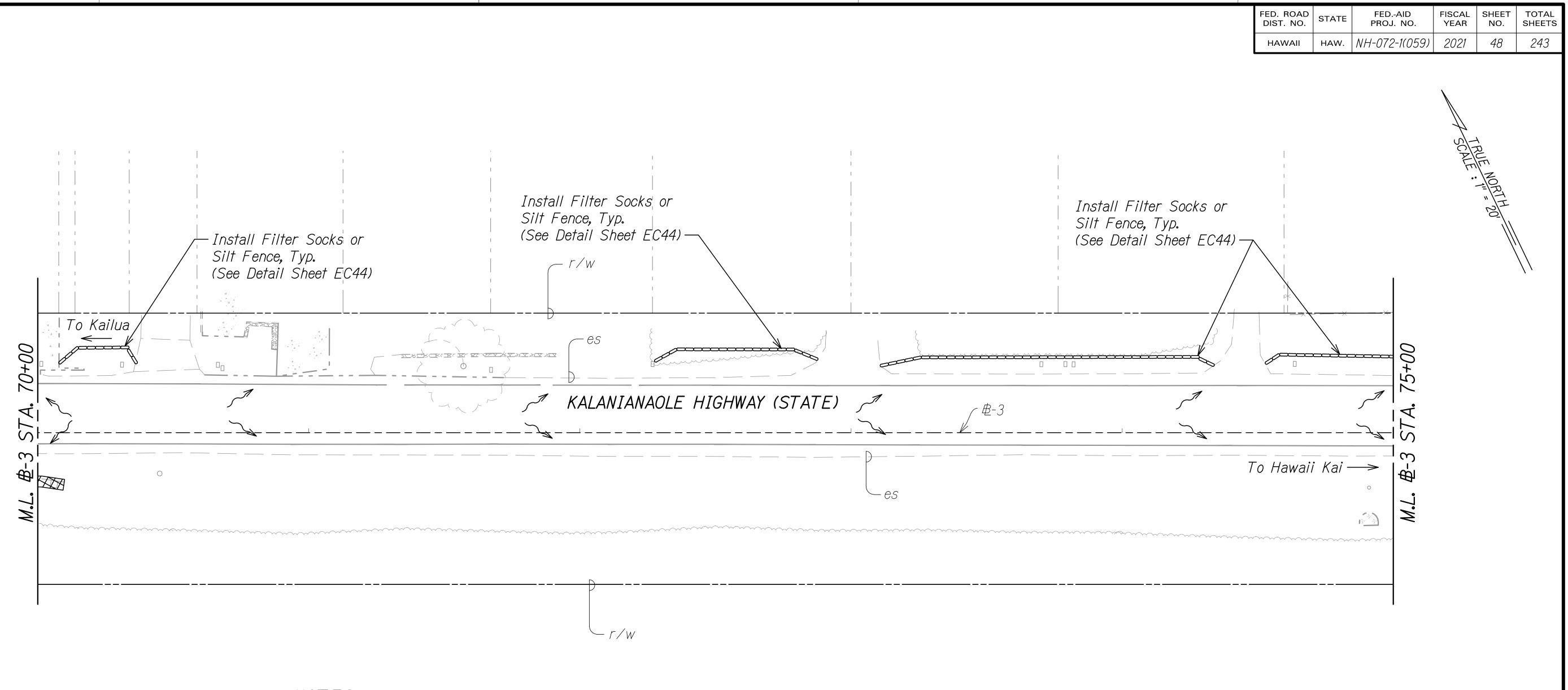
FED. ROAD DIST. NO. FISCAL YEAR FED.-AID PROJ. NO. HAW. | NH-072-1(059) | 2021 45 Install Filter Socks or Install Filter Socks or Silt Fence, Typ. Silt Fence, Typ. (See Detail Sheet EC44) (See Detail Sheet EC44) KAIONA BEACH PARK (3) guy ← To Kailua KALANIANAOLE HIGHWAY (STATE) PTo Hawaii Kai —> Install Filter Socks or Silt Fence, Typ. (See Detail Sheet EC44)—V NOTES: LEGEND: 1. requirements and do not constitute an acceptable and/or complete Sediment and Erosion Control Flow Arrow  $\sim \gg$ 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 Install Filter Sock including applicable permit document requirements. Cost shall be included in Pay Item 209.0100, or Silt Fence Installation, Maintenance, Monitoring, and Removal of BMP. **GRAPHIC SCALE:** 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines. Scale: 1" = 20' 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 - R43. 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement STATE OF HAWAII Marking and Signing Plans M1 - M44. DEPARTMENT OF TRANSPORTATION DEMOLITION AND EROSION 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work \* \NO. 15546-C/ \* for this project related activities/phases and within the right-of-way. The Contractor shall be CONTROL PLAN responsible to protect all open bare areas during all phases of construction to prevent erosion. Best KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Management Practices shall not be removed until final stabilization is complete for that phase. Poalima Street to Vicinity of Makai Pier Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance. Federal-Aid Project No. NH-072-1(059) EXPIRATION DATE OF THE LICENSE Scale: 1" = 20' Date: January 2021

45

SHEET No. *EC33* OF 44 SHEETS







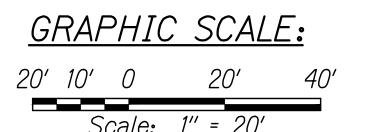
Flow Arrow

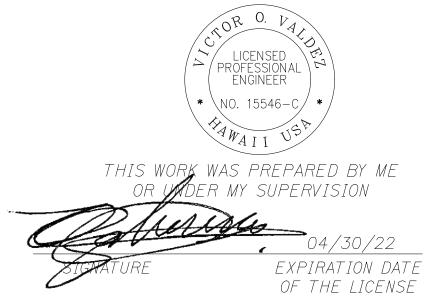
Install Filter Sock or Silt Fence

Remove Existing Guardrail

#### NOTES:

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

## <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

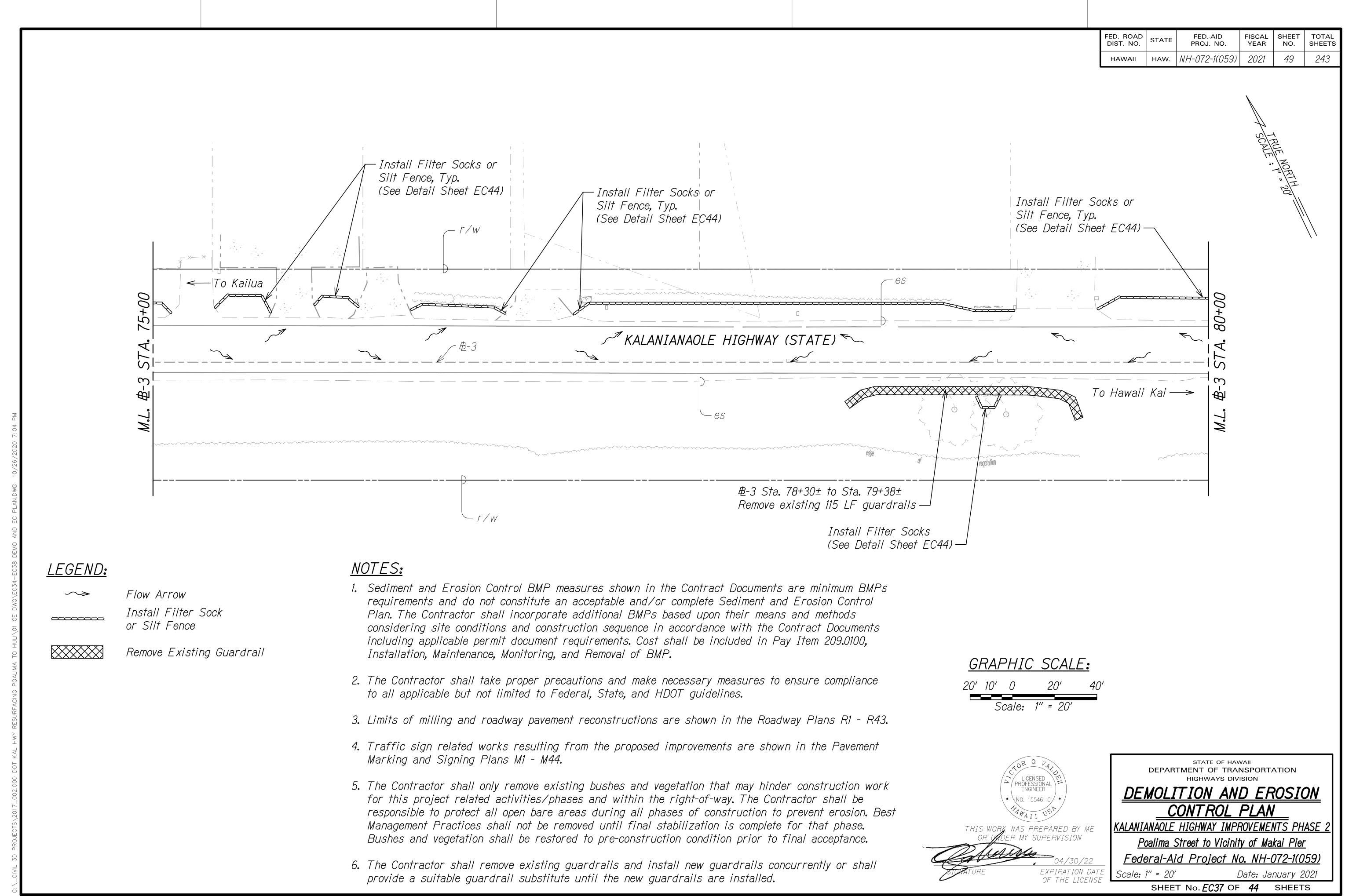
Poalima Street to Vicinity of Makai Pier

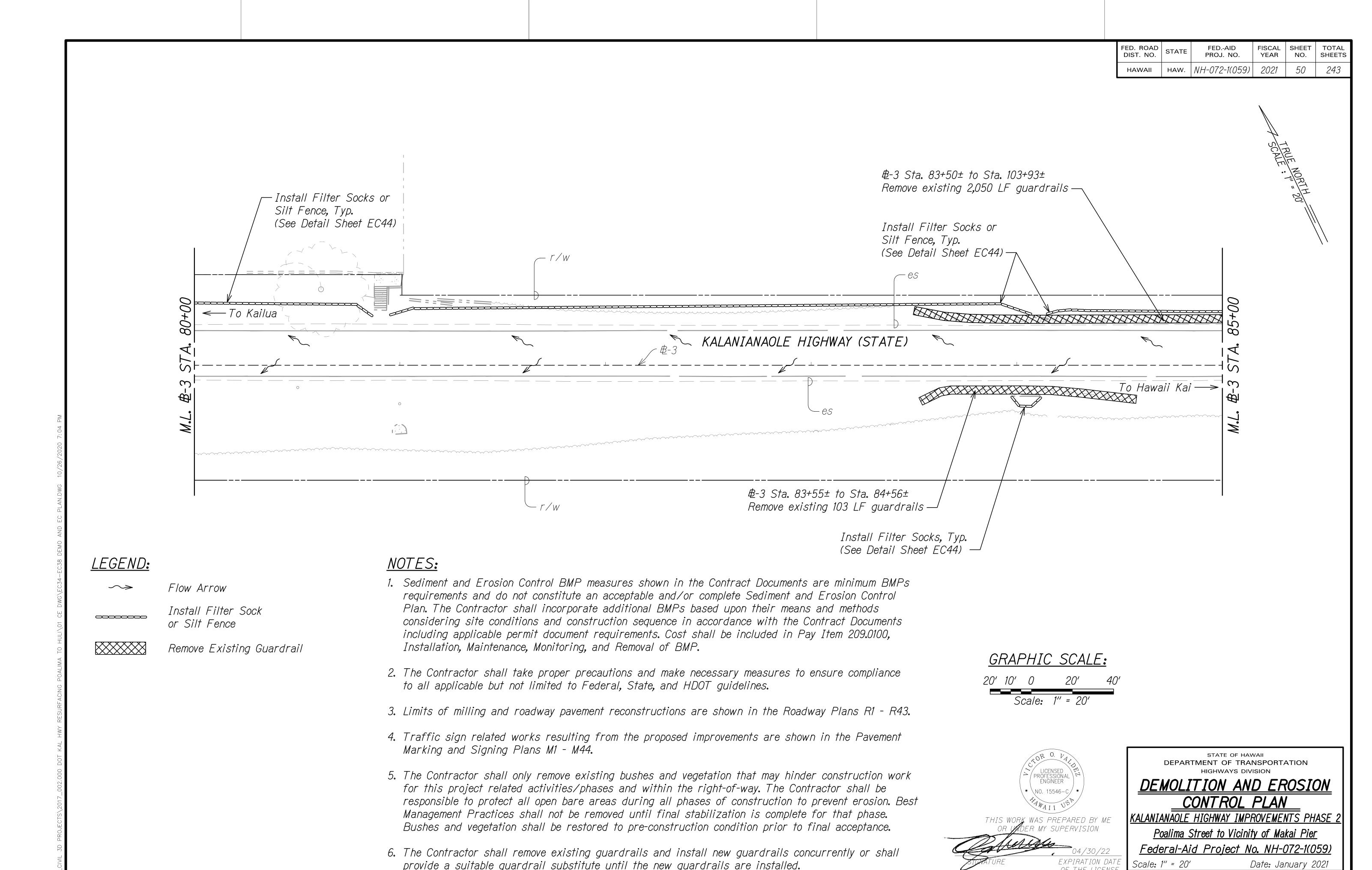
Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date: January 2021

" = 20' Date: January 2021
SHEET No. *EC36* OF *44* SHEETS

0 OF 44





provide a suitable guardrail substitute until the new guardrails are installed.

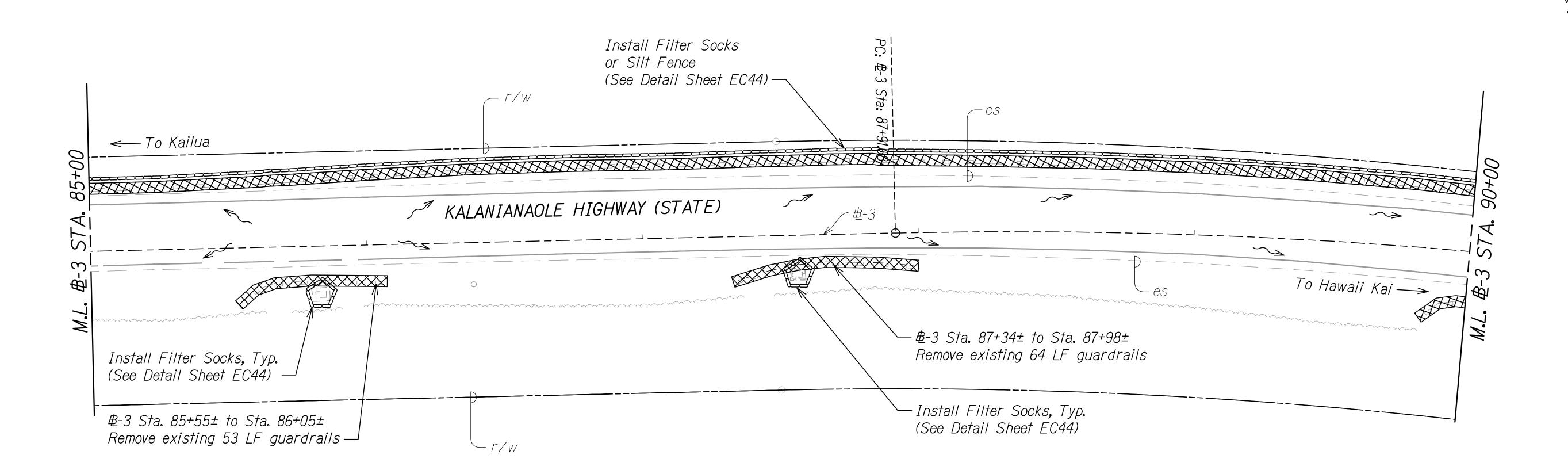
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SHEET No. *EC38* OF 44 SHEETS

Date: January 2021

OF THE LICENSE

FED. ROAD DIST. NO. FISCAL YEAR FED.-AID PROJ. NO. STATE HAW. *NH-072-1(059)* 2021



LEGEND:

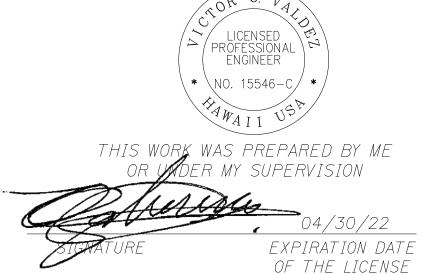
Flow Arrow Install Filter Sock or Silt Fence

Remove Existing Guardrail

#### NOTES:

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

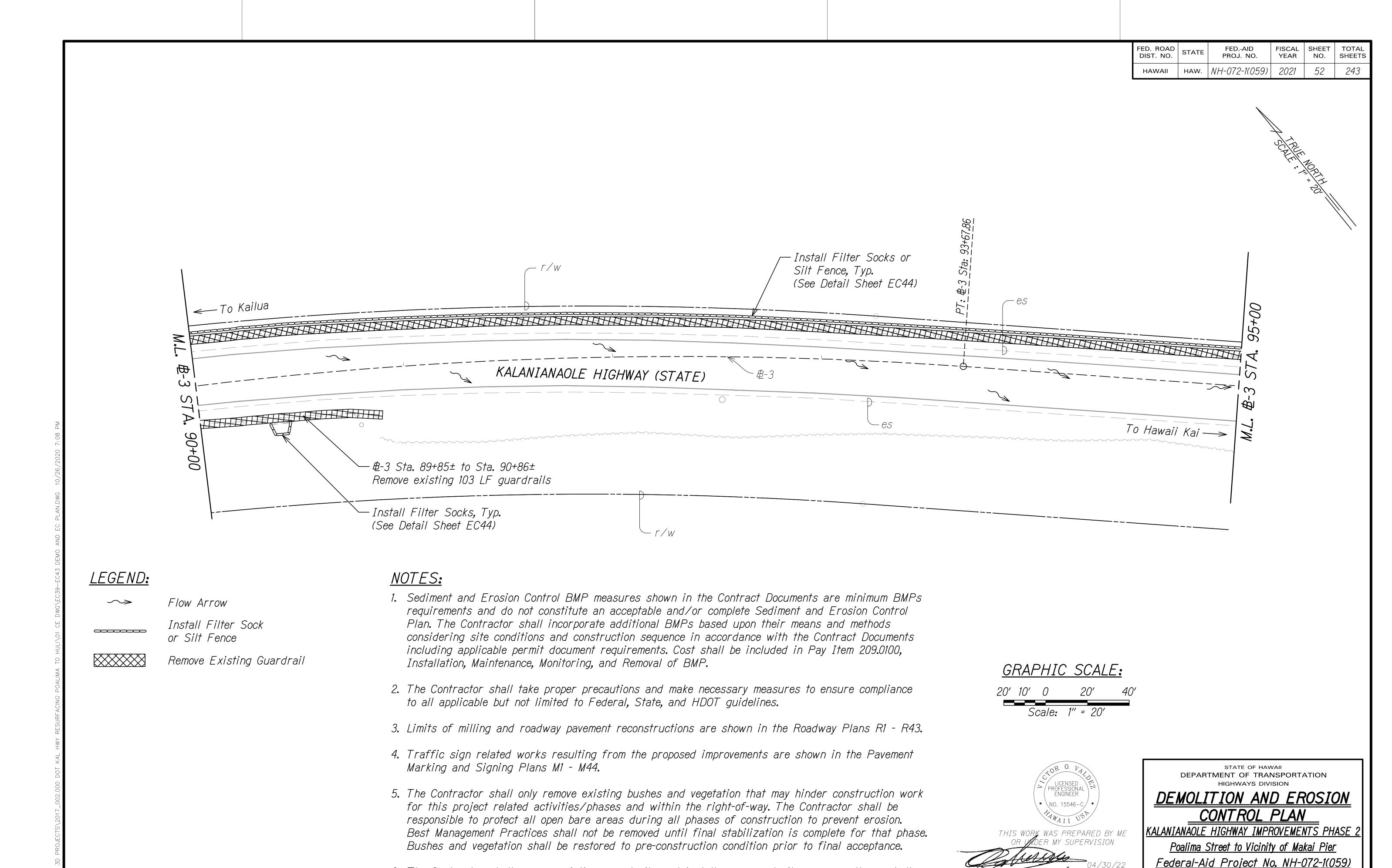
#### **DEMOLITION AND EROSION** CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20'

Date: January 2021 SHEET No. *EC39* OF *44* SHEETS



6. The Contractor shall remove existing guardrails and install new guardrails concurrently or shall

provide a suitable guardrail substitute until the new guardrails are installed.

52

SHEET No. *EC40* OF *44* SHEETS

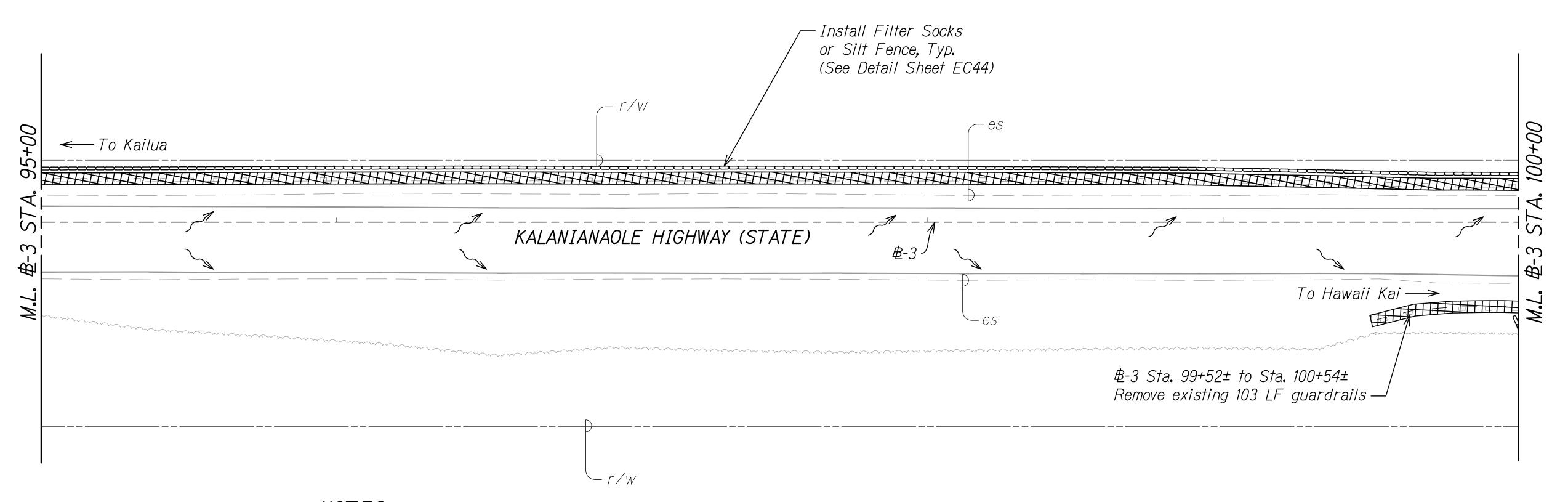
Date: January 2021

EXPIRATION DATE

OF THE LICENSE

Scale: 1" = 20'

FED. ROAD DIST. NO. FED.-AID PROJ. NO. FISCAL YEAR STATE HAW. *NH-072-1(059)* 2021 53



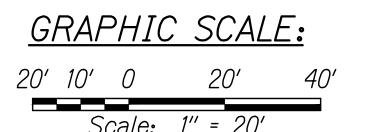
LEGEND:

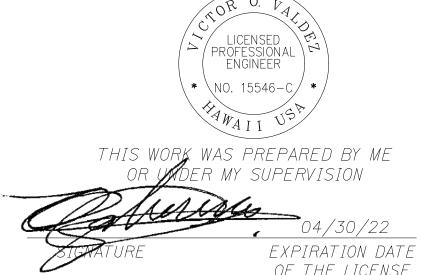
Flow Arrow Install Filter Sock or Silt Fence

Remove Existing Guardrail

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

## DEMOLITION AND EROSION CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

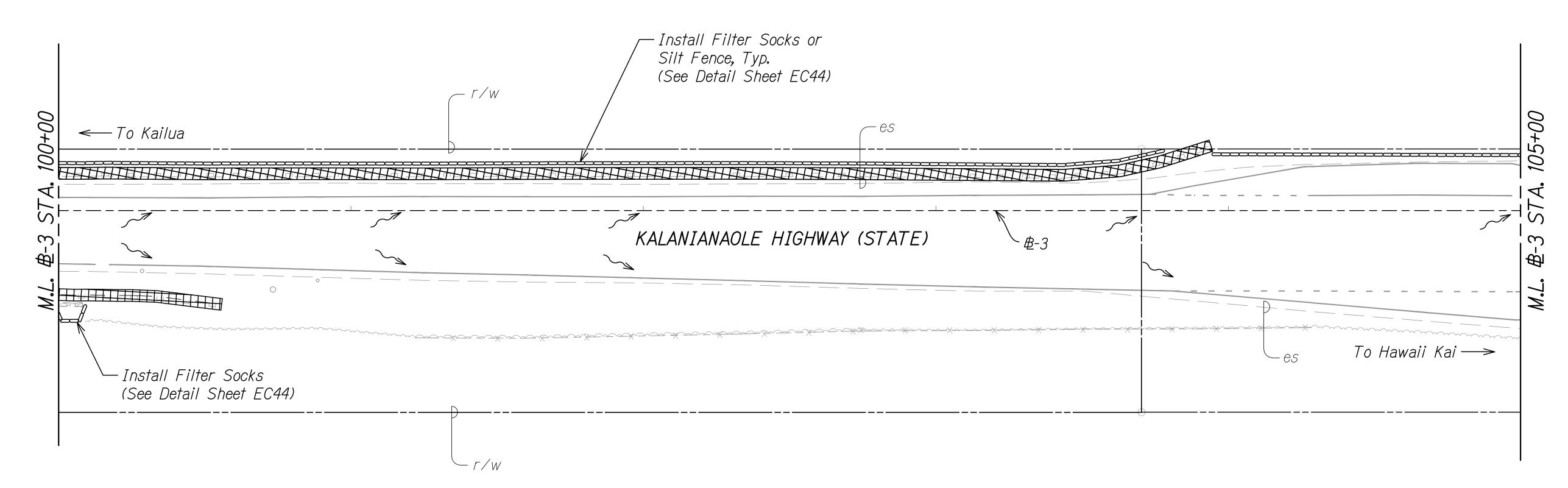
Federal-Aid Project No. NH-072-1(059) Scale: 1" = 20'

Date: January 2021 SHEET No. *EC41* OF 44 SHEETS

FED. ROAD DIST. NO. STATE FED.-AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. NH-072-1(059) 2021 54 243

SCARRE . MATH



LEGEND:

~> Flow Arrow

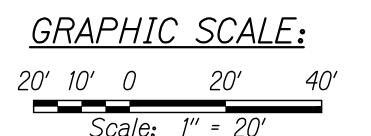
Install Filter Sock

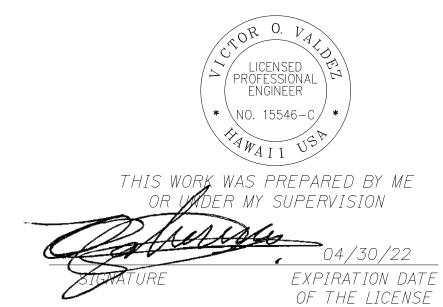
Remove Existing Guardrail

or Silt Fence

#### NOTES:

- 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.
- 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines.
- 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 R43.
- 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 M44.
- 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work for this project related activities/phases and within the right-of-way. The Contractor shall be responsible to protect all open bare areas during all phases of construction to prevent erosion. Best Management Practices shall not be removed until final stabilization is complete for that phase. Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.
- 6. The Contractor shall remove existing guardrails and install new guardrails concurrently or shall provide a suitable guardrail substitute until the new guardrails are installed.





STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

# <u>DEMOLITION AND EROSION</u> <u>CONTROL PLAN</u>

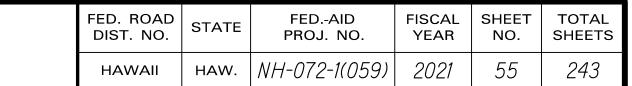
KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2

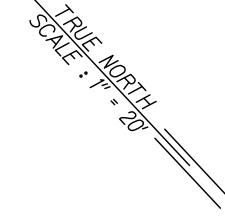
Poalima Street to Vicinity of Makai Pier

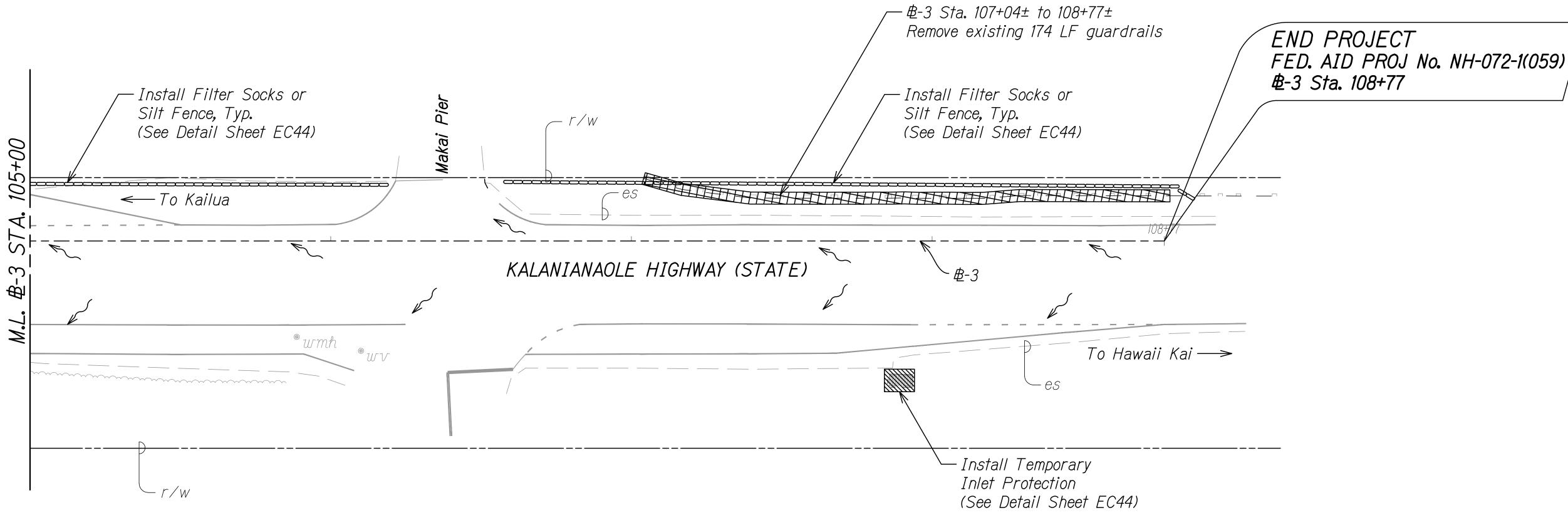
Federal-Aid Project No. NH-072-1(059)

Scale: 1" = 20' Date: January 2021

SHEET No. *EC42* OF *44* SHEETS







Flow Arrow

Install Filter Sock or Silt Fence

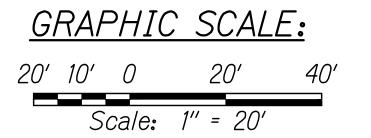
Remove Existing Guardrail

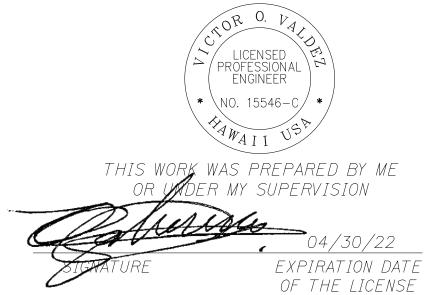
Inlet Protection

Existing Drain Inlet

#### NOTES:

- 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.
- 2. The Contractor shall take proper precautions and make necessary measures to ensure compliance to all applicable but not limited to Federal, State, and HDOT guidelines.
- 3. Limits of milling and roadway pavement reconstructions are shown in the Roadway Plans R1 R43.
- 4. Traffic sign related works resulting from the proposed improvements are shown in the Pavement Marking and Signing Plans M1 - M44.
- 5. The Contractor shall only remove existing bushes and vegetation that may hinder construction work for this project related activities/phases and within the right-of-way. The Contractor shall be responsible to protect all open bare areas during all phases of construction to prevent erosion. Best Management Practices shall not be removed until final stabilization is complete for that phase. Bushes and vegetation shall be restored to pre-construction condition prior to final acceptance.
- 6. The Contractor shall remove existing guardrails and install new guardrails concurrently or shall provide a suitable guardrail substitute until the new guardrails are installed.





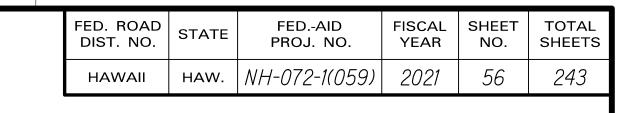
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

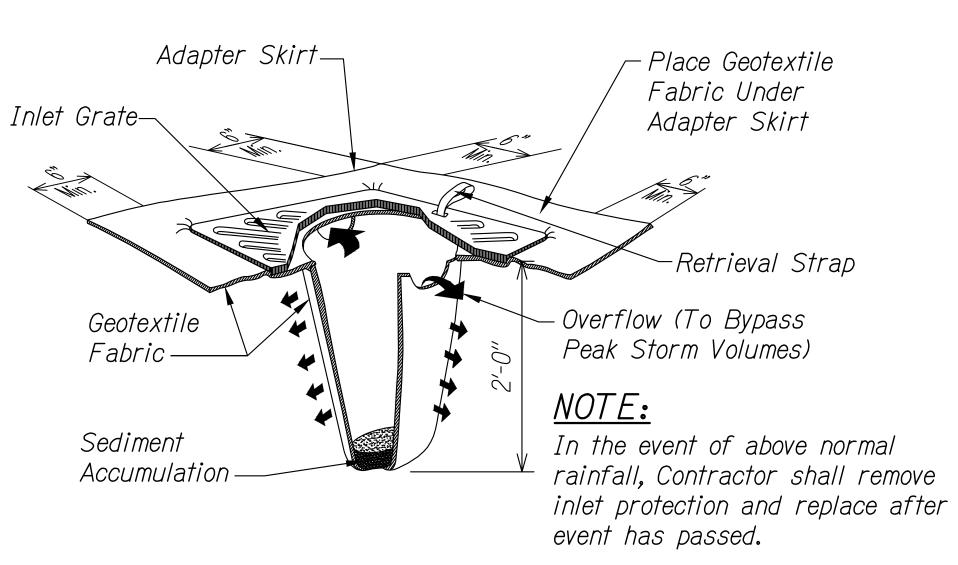
## DEMOLITION AND EROSION CONTROL PLAN

KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE 2 Poalima Street to Vicinity of Makai Pier

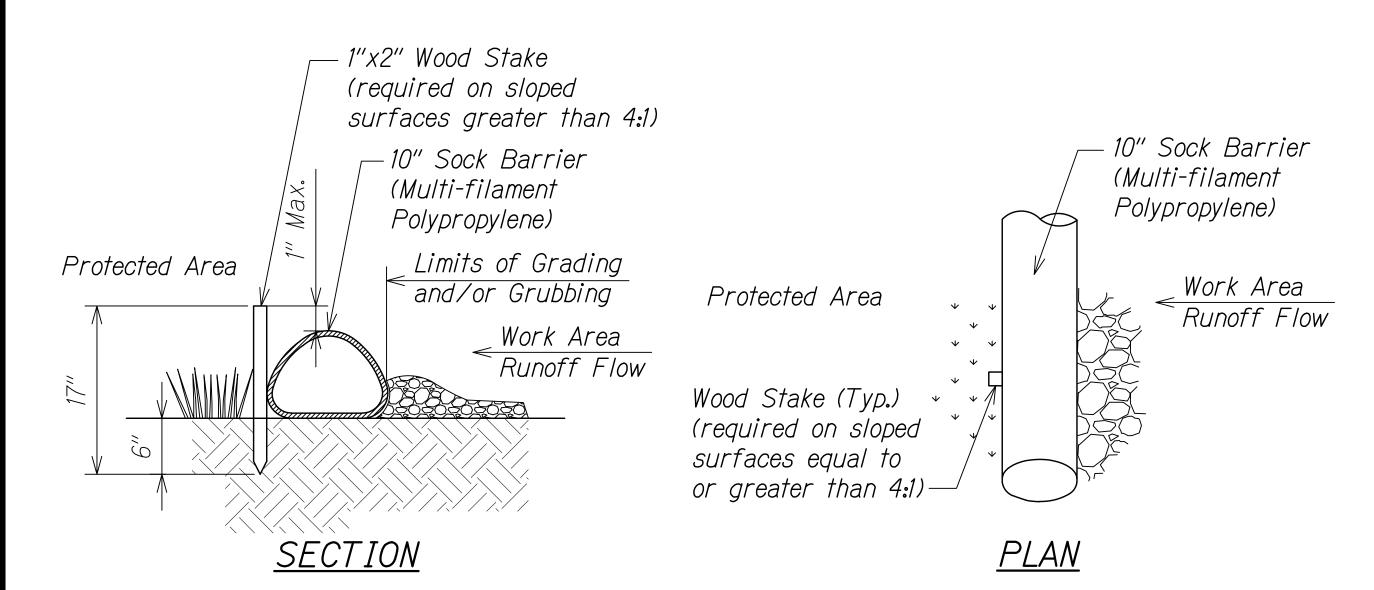
Federal-Aid Project No. NH-072-1(059) Scale: 1" = 20' Date: January 2021

SHEET No. *EC43* OF 44 SHEETS





## TEMPORARY INLET PROTECTION DETAIL NOT TO SCALE



Spacing Protected Area  10" Sock Barrier  (Multi-filament  Polypropylene)
Work Area
\_Runoff Flow
6" Min. Overlap Or Per Spec.

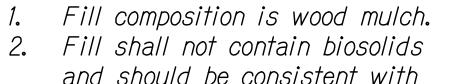
<u>OVERLAP</u>

SLOPE GRADIENT	ANCHOR SPACING		
<4:1	Not Required		
4:1 to 3:1	10'		
>3:1 to 2:1	5' to 10'		
>2:1	5′		

#### **NOTES:**

and should be consistent with EPA Guidelines.

FILTER SOCK BARRIER DETAILS NOT TO SCALE



## SILT FENCE DETAIL

~#4 Rebar

2"x2", 14 GA

*"9*-

Property Line—

Wire Mesh-

—Limits Of Grading

-Pin Fabric

@24" O.C.

└─#4 Rebar With Safety

Cap At Top

-Backfill With Native

—Existing

Ground

Soil And Compact

NOT TO SCALE

#### *NOTE*:

-Safety Cap On Rebar

6' O.C. Max.

Existing Ground

-Fasten Silt Fence

To Rebar (Typ.)

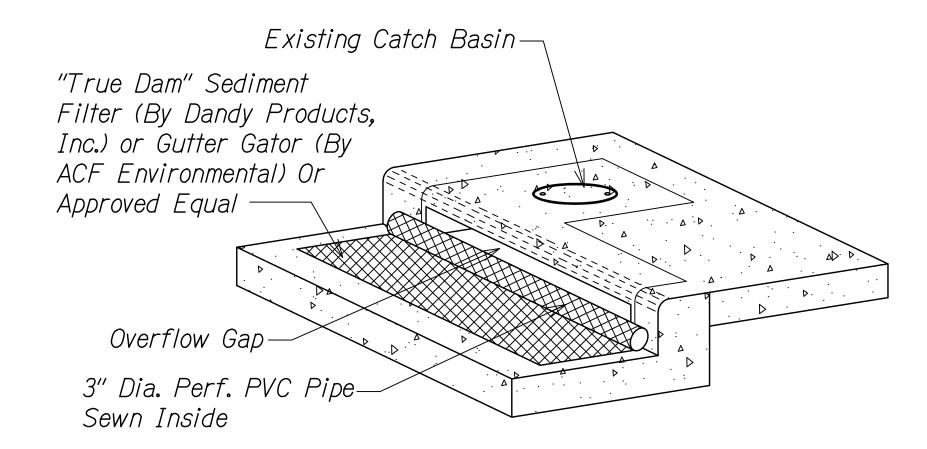
-Bury Bottom Of

Filter Fabric

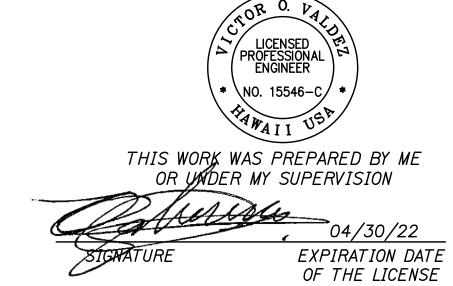
-Geotextile Fabric (Mirafi

100X or Equivalent)-

In the event of above normal rainfall, Contractor shall remove inlet protection and replace after event has passed.



## TEMPORARY CATCH BASIN PROTECTION DETAIL NOT TO SCALE



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

## EROSION CONTROL DETAILS

<u>KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE :</u> Poalima Street to Vicinity of Makai Pier Federal-Aid Project No. NH-072-1(059)

Scale: As Shown

Date: January 2021

SHEET No. *EC44* OF *44* SHEETS