

From: [Black, Rebecca L CIV USARMY CELRH \(US\)](#)
To: darell.young@hawaii.gov; [Brian A. Lock](#)
Cc: [John Sakaguchi](#); Darryl.lum@doh.hawaii.gov
Subject: RE: POH-2007-00280-Culvert Extension, Kuhio Hwy Short-Term Improvements Project, Kaumoo Road to Temporary Bypass Road
Date: Monday, September 24, 2018 12:05:15 PM
Attachments: [POH-2007-280 NWP Letter.pdf](#)
[POH-2007-280 Enclosure 1 Drawings.pdf](#)
[POH-2007-280 Enclosure 2 NWP-14.pdf](#)
[POH-2007-280 Enclosure 3 NWP CompCert.pdf](#)

Mr. Young,

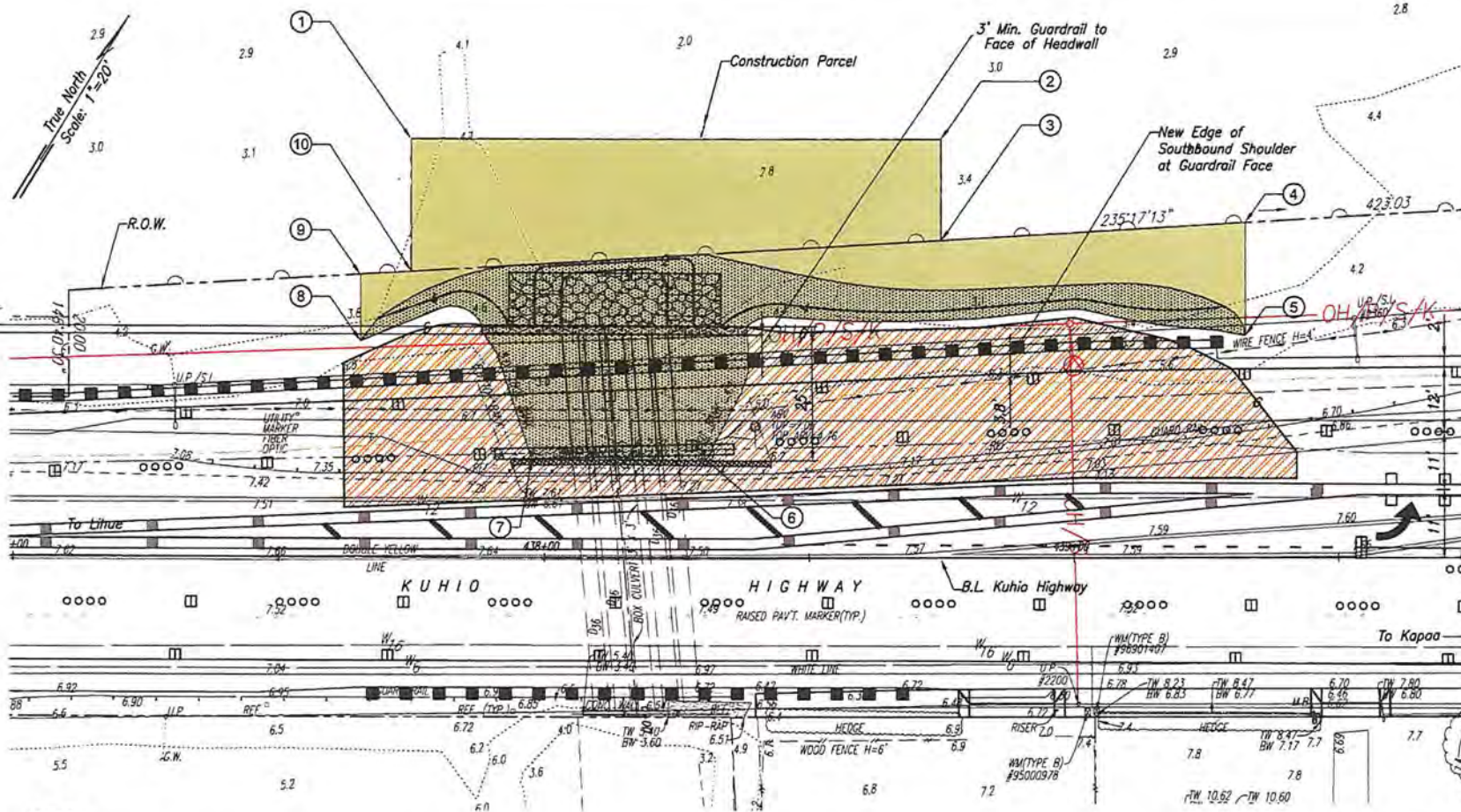
The attached letter verifies the Culvert Extension Project for Kuhio Hwy Short-Term Improvements Project, Kaumoo Road to Temporary Bypass project complies with the terms and conditions of Nationwide Permit (NWP) #14, (Linear Transportation Projects) issued on March 19, 2017 (82 FR 1860, January 6, 2017). This NWP verification letter is being issued pursuant to Section 404 of the Clean Water Act for the discharge of dredged and/or fill material into waters of the U.S. You are authorized to conduct the work as described and as depicted on the enclosed drawings.

The Honolulu District, Regulatory Branch is digitally transmitting the attached documentation for your convenience. Please print a copy of the document(s) and retain for your records. If you are unable to print the documentation and require a hard copy mailed to you, please notify me at your earliest convenience.

The Regulatory Branch is committed to providing the highest level of customer service. I value your comments and appreciate you contacting me if you have any comments/concerns regarding our customer service.

Thank you,
Rebecca Black
Biologist
Regulatory Specialist
Honolulu District
U.S. Army Corps of Engineers
Building 252
Fort Shafter, Hawaii 96858-5440
808-835-4107

This message has been scanned for viruses and dangerous content using Worry-Free Mail Security and is believed to be clean.



**APPROXIMATE COORDINATES
OF WETLAND IMPACT AREA**

- ① Lot: 159° 19' 52.851" N
Long: 22° 3' 15.422" W
- ② Lot: 159° 19' 51.176" N
Long: 22° 3' 16.139" W
- ③ Lot: 159° 19' 51.305" N
Long: 22° 3' 15.887" W
- ④ Lot: 159° 19' 50.72" N
Long: 22° 3' 16.154" W
- ⑤ Lot: 159° 19' 50.464" N
Long: 22° 3' 15.84" W
- ⑥ Lot: 159° 19' 51.363" N
Long: 22° 3' 14.914" W
- ⑦ Lot: 159° 19' 51.753" N
Long: 22° 3' 14.745" W
- ⑧ Lot: 159° 19' 52.744" N
Long: 22° 3' 14.68" W
- ⑨ Lot: 159° 19' 52.744" N
Long: 22° 3' 15.114" W
- ⑩ Lot: 159° 19' 52.64" N
Long: 22° 3' 15.114" W

LEGEND

- Temporary Wetland Area Affected By New Culvert
- Permanent Wetland Area Affected By New Culvert
- Operation Area for Construction Equipment

**EXTENSION OF EXISTING BOX CULVERT
ON KUHIO HIGHWAY**

GRAPHIC SCALE:

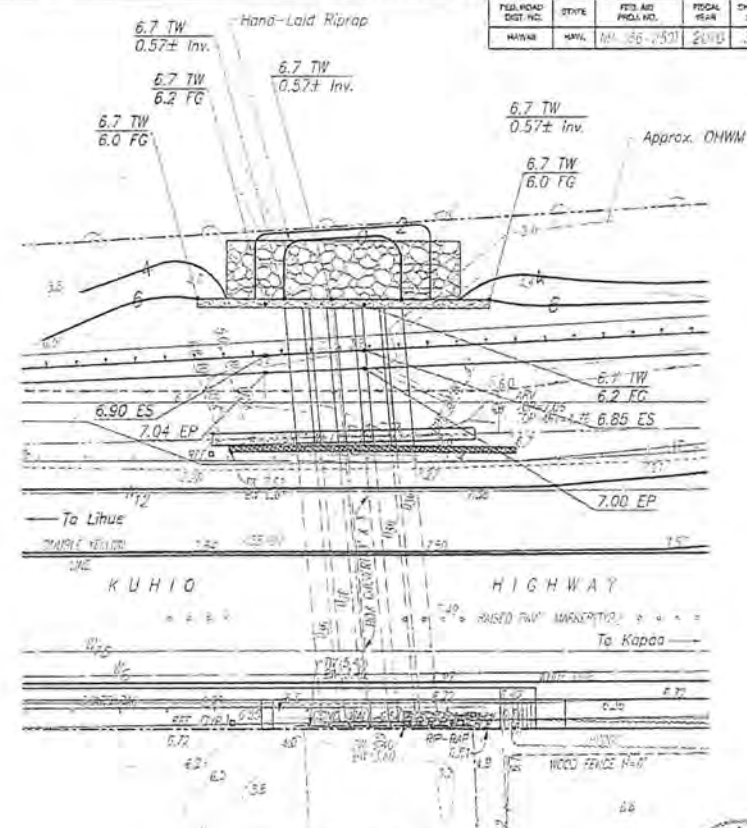
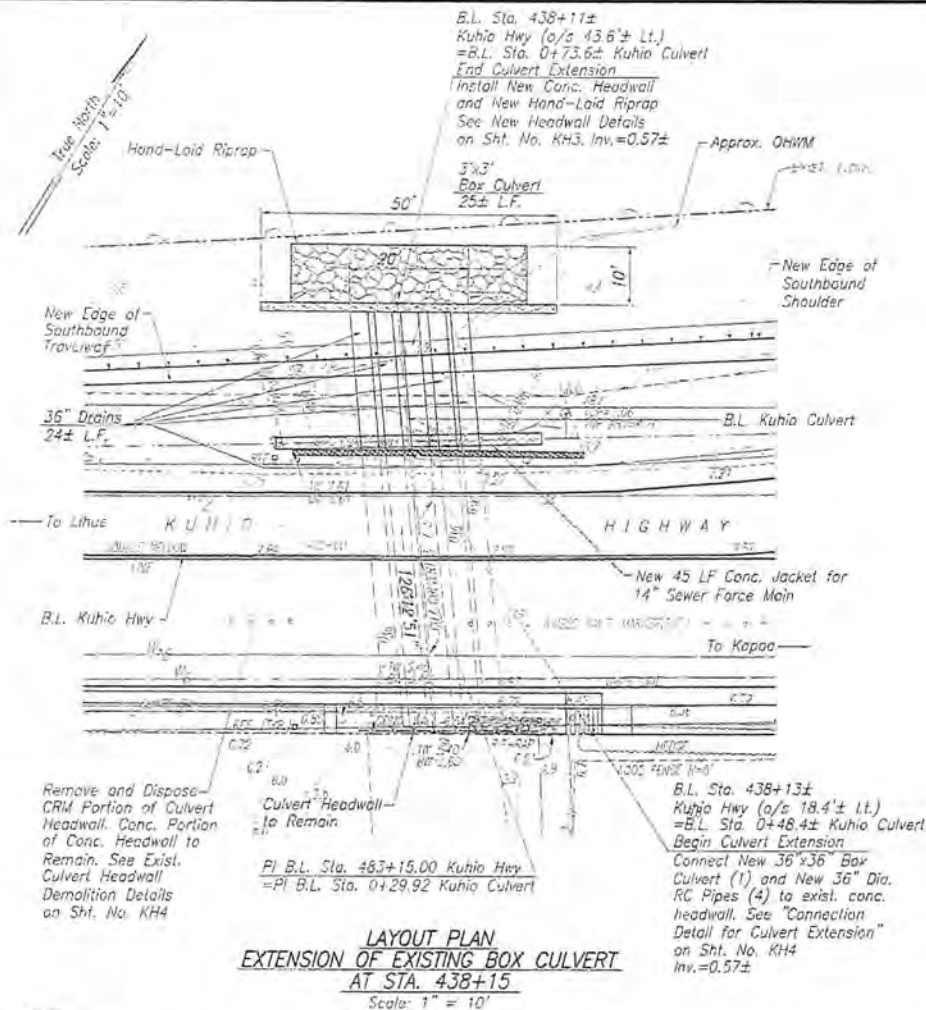


Prepared by:
Wilson Okamoto
Corporation
Engineers - Planners

**APPROXIMATE WETLAND AREA
(Temporary and Permanent Impact)**

FIGURE 4 REVISIONS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HI	056-1(50)	2003	30	25



THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION

DATE: 11/10/03

Notes:

1. Concrete or debris from demolition work shall be removed and not allowed to fall into water way.
2. Contractor shall utilize water proof form work for cast-in-place concrete headwall foundation and collar. Contractor shall not use chemical treated wood for waterproof form work. Contractor shall keep foundation dry by draining, bailing, pumping, driving sheetpiles; or by constructing cofferdams and cribs.
3. Contractor Shall Clean Existing Culverts.
4. Contractor shall protect 14" sewer force main during culvert installation.

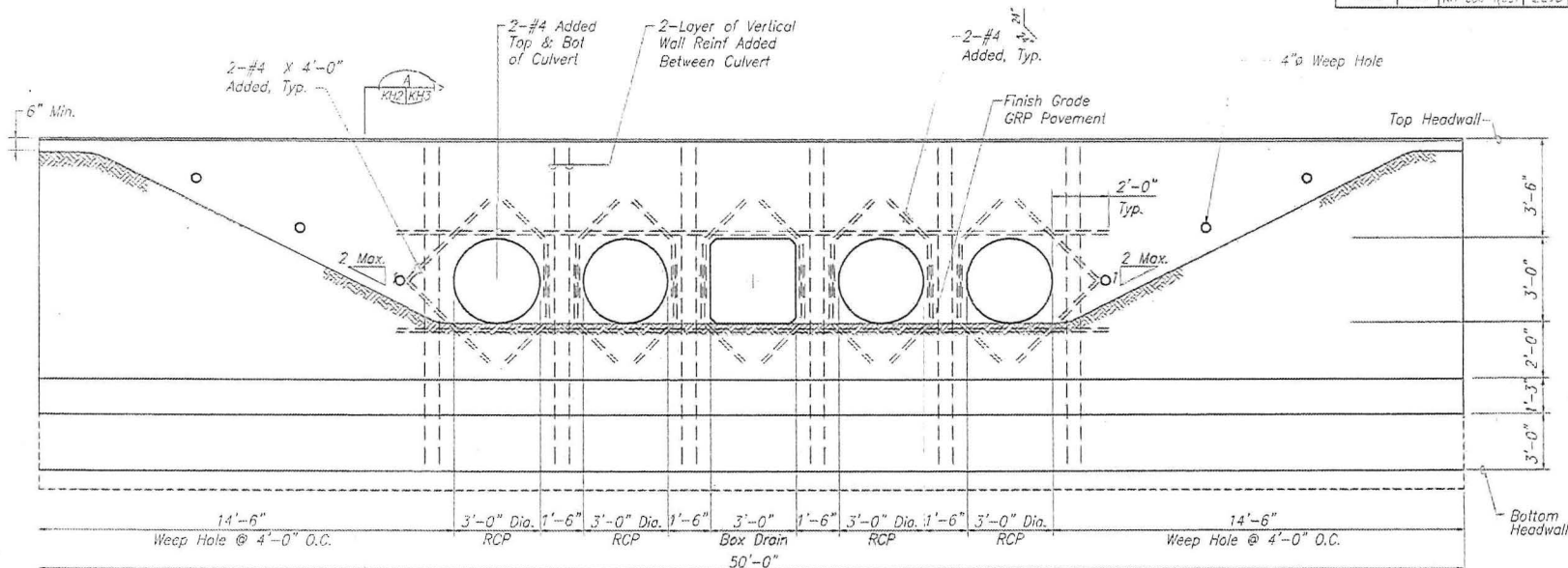
APPROVED

Chief, Division of Wastewater Management. Date: _____
(For Work Involving Sewer Lines and Appurtenances)

GRAPHIC SCALE:
10' 5' 0' 10' 20'
SCALE: 1" = 10'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HAWAIIAN HIGHWAY OPERATION
**KUHIO HIGHWAY
CULVERT EXTENSION**
Kuhio Highway Short-Term Improvements
South Leho Drive to Aleka Loop
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: November 2003
SHEET No. KH1 OF 4 SHEETS

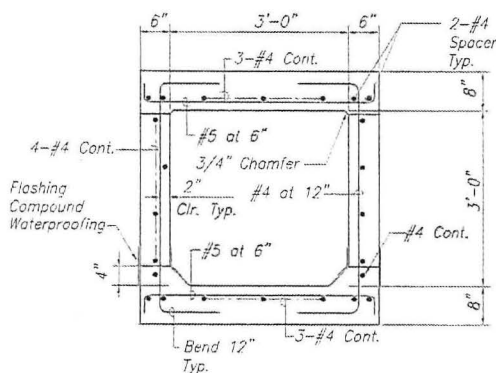
DESIGN NO.	DATE	DESIGN NO.	YEAR	SHEET NO.	TOTAL SHEETS
HA-056-1(2)	2010	40	29		



Note: Typical Wall Reinforcement
Not Shown for Clarity

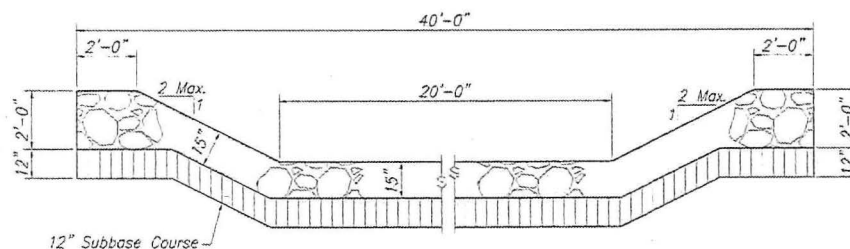
NEW HEADWALL ELEVATION

Scale: 1/2"=1'-0"



TYPICAL SECTION - 3'x3' BOX CULVERT

Scale: 1/2"=1'-0"



HAND-LAID RIPRAP DETAIL

Not to Scale



THIS DESIGN WAS PREPARED BY ME
OR UNDER MY SUPERVISION

DATE: 11/15/2010
PROJECT: KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS
SHEET NO. 40 OF 40

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
KUHIO HIGHWAY
CULVERT EXTENSION DETAILS
Kuhio Highway Short-Term Improvements
South Leha Drive to Aleka Loop
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: November 2009
SHEET No. 40 OF 40 SHEETS

CD NO.	CD NO.	CD NO.	CD NO.	CD NO.	CD NO.
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995	996	997	998	999	1000

Backfill with Select Granular Material or CLSM as Required to Bottom of Pav't. Structure
Roadway Surface

Demolish CRM Portion of Culvert Headwall

Pav't. Thickness

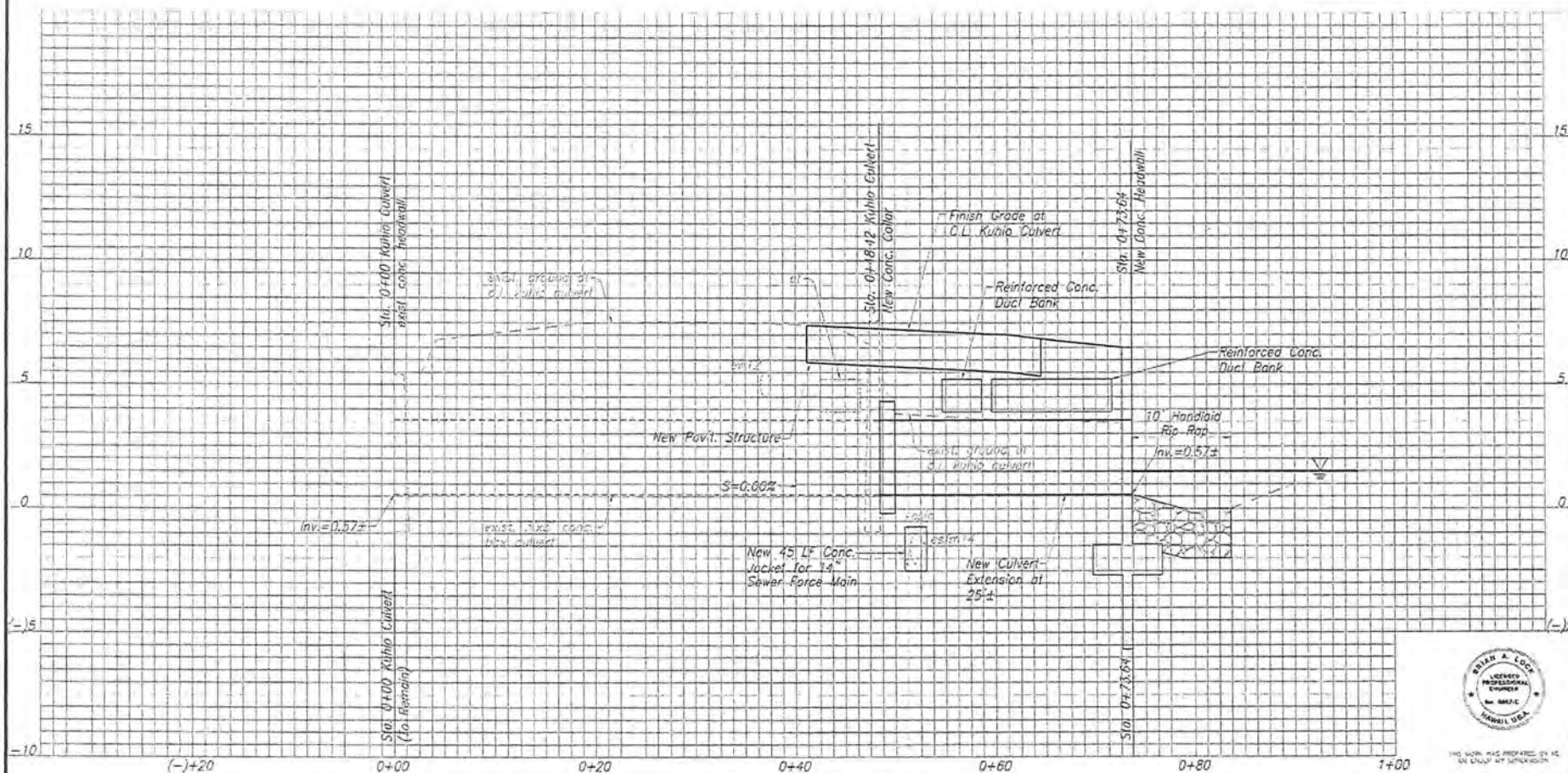
SECTION B
Not to Scale



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
KUHIO HIGHWAY
CULVERT EXTENSION DETAILS
Kuhio Highway Short-Term Improvements
South Lele Drive to Aleka Loop
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: November 2009
SHEET NO. K14 OF 5 SHEETS

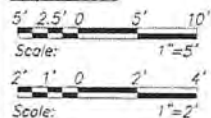
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FED. AID YR.	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	NH-056-1(50)	2010	43	200



PROFILE - 3'x3' BOX CULVERT

Scale: Horiz. 1" = 5'
Vert. 1" = 2'

Graphic Scales



APPROVED

Chief, Division of Wastewater Management
(For Work Involving Sewer Lines
and Appurtenances)

Date

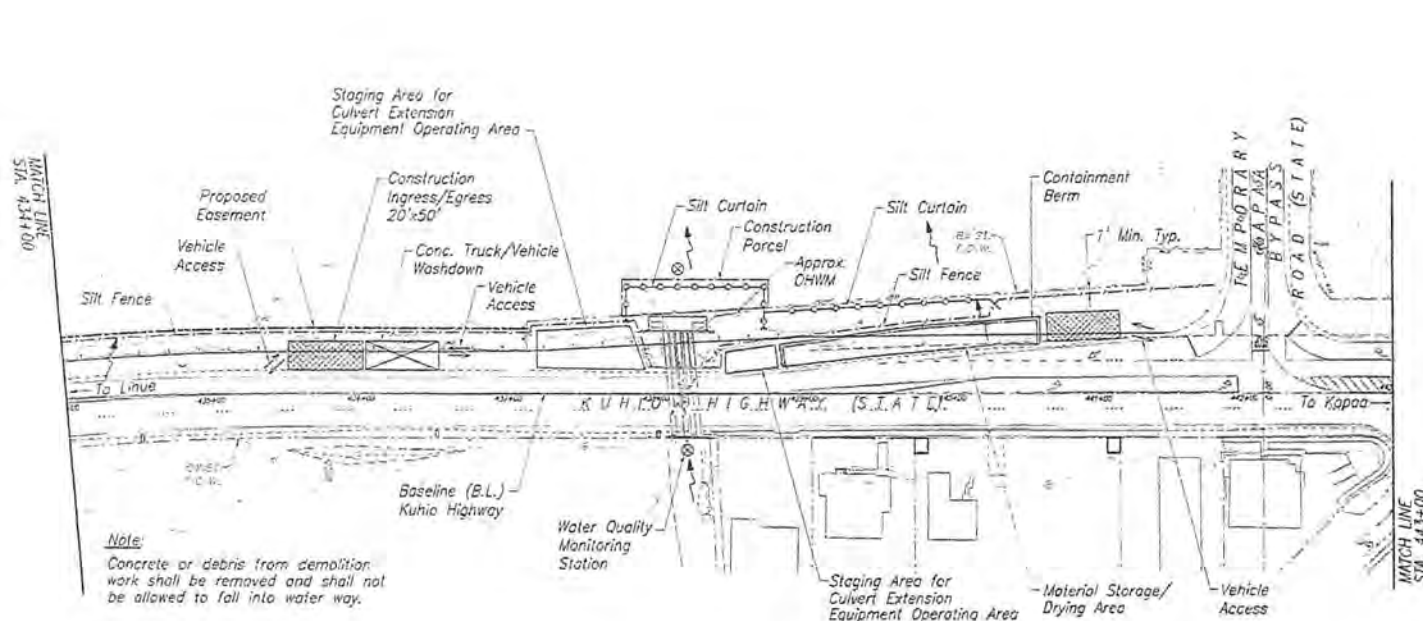


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

DATE OF PREP. CORRECTION, SEE END SHEET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
**PROFILE - KUHIO HIGHWAY
CULVERT EXTENSION**
Kuhio Highway Short-Term Improvements
South Lele Drive to Aleka Loop
Fed. Aid Proj. No. NH-056-1(50)
Scale: As Noted Date: November 2009
SHEET No. KHS OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HI	NS-056-1(50)	2009	6	27



LEGEND:

- Silt Fence
- Silt Curtain
- Inlet Protection
- ⊗ Vehicle Washdown
- ⊗ Construction Ingress/Egress
- Staging Area
- ⊗ Water Quality Monitoring Station

GRAPHIC SCALE:
40' 20' 0 40' 80'
SCALE: 1" = 40'



THIS PLAN AND SPECIFICATIONS, IN WHOLE OR IN PART, ARE THE PROPERTY OF THE HAWAIIAN DEPARTMENT OF TRANSPORTATION. IT IS TO BE USED ONLY FOR THE PROJECT AND AT THE LOCATION SPECIFIED HEREON.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

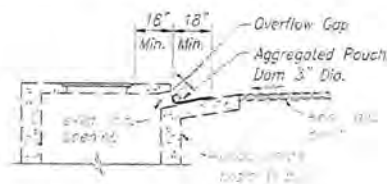
EROSION CONTROL PLAN - 6

*Kuhio Highway Short-Term Improvements
South Leho Drive to Aleka Loop
Fed. Aid Proj. No. HI-056-1(50)*

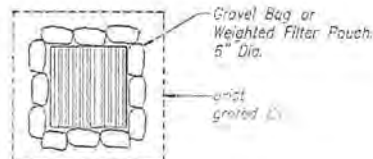
Scale: As Noted Date: November 2009

SHEET No. 6 OF 8 SHEETS

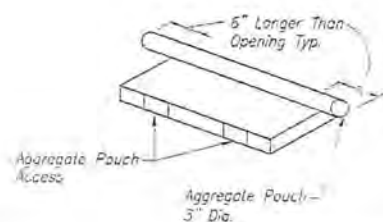
DESIGN NO.	DATE	DESIGNER	CHECKED	APPROVED	TOTAL SHEETS
20-055-150	11/09	DAVID L. LEE	DAVID L. LEE	DAVID L. LEE	2



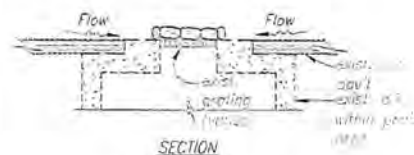
ELEVATION
AGGREGATE POUCH
Not to Scale



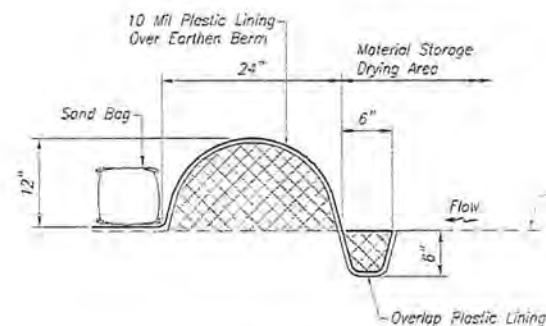
PLAN VIEW



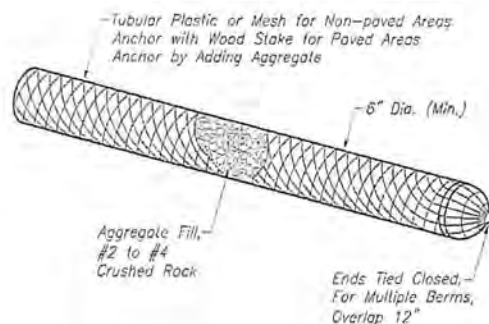
AGGREGATE POUCH AT CATCH BASIN OPENING
Not to Scale



SECTION
SAND OR GRAVEL BAGS
AT GRATED DRAIN INLET
Not to Scale



CONTAINMENT BERM
Not to Scale



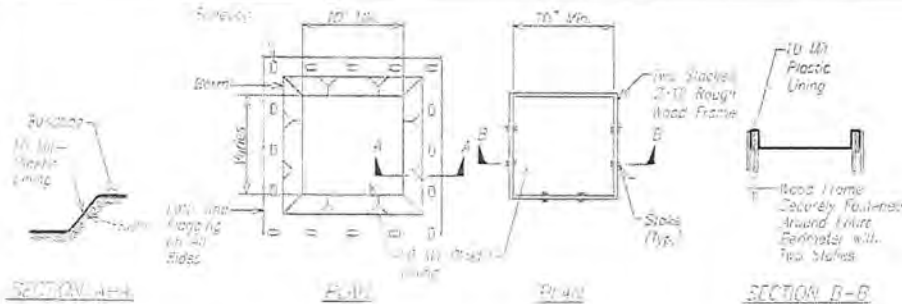
AGGREGATE FILTER POUCH
Not to Scale



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EROSION CONTROL DETAILS
Kuhio Highway Short-Term Improvements
South Leha Drive to Aleka Loop
Fed. Aid Proj. No. NH-055-1(50)
Scale: As Noted Date: November 2009
SHEET No. 1 OF 2 SHEETS

DESIGN NO.	DATE	DESIGN NO.	YEAR	SHEET NO.	TOTAL SHEETS
HA-05-1(50)	2010	83	29		



SECTION A-A

PLAN

SECTION B-B

PLAN

NOTES:

1. Actual layout determined in field.
2. The concrete washdown sign shall be installed within 30 feet of the temporary concrete washdown area.

CONCRETE WASHDOWN AREA
(BELOW GRADE)

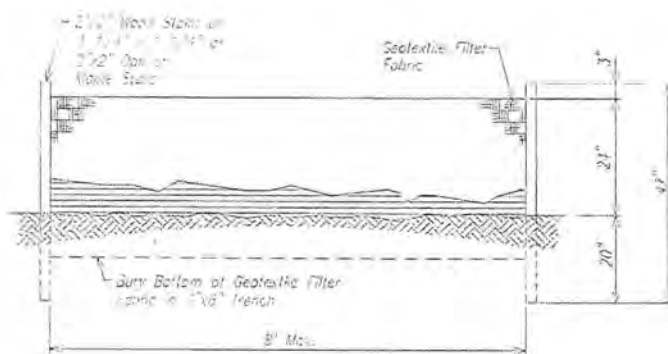
NOTES:

1. Actual layout determined in field.
2. The concrete washdown sign shall be installed within 30 feet of the temporary concrete washdown area.

CONCRETE WASHDOWN AREA
(ABOVE GRADE)

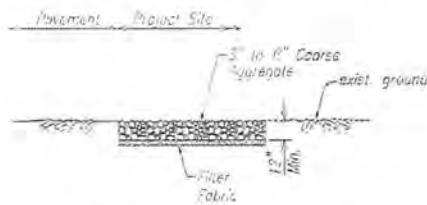
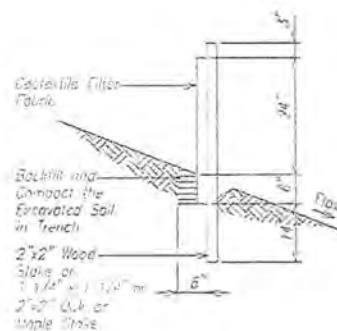
WASHDOWN BASIN DETAIL

Not to Scale



SILT FENCE DETAIL

Not to Scale



**TEMPORARY STABILIZED
CONSTRUCTION INGRESS/EGRESS**

Not to Scale



THIS SEAL AND EASEL ARE THE PROPERTY OF THE ENGINEER.

EXPIRATION DATE: 12/31/2010

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

EROSION CONTROL DETAILS

Kahe Highway Short-Term Improvements

South Laha Drive to Alapa Loop

Fed. Aid Proj. No. HA-05B-1(50)

Scale: As Noted Date: November 2010

SHEET No. 2 OF 2 SHEETS