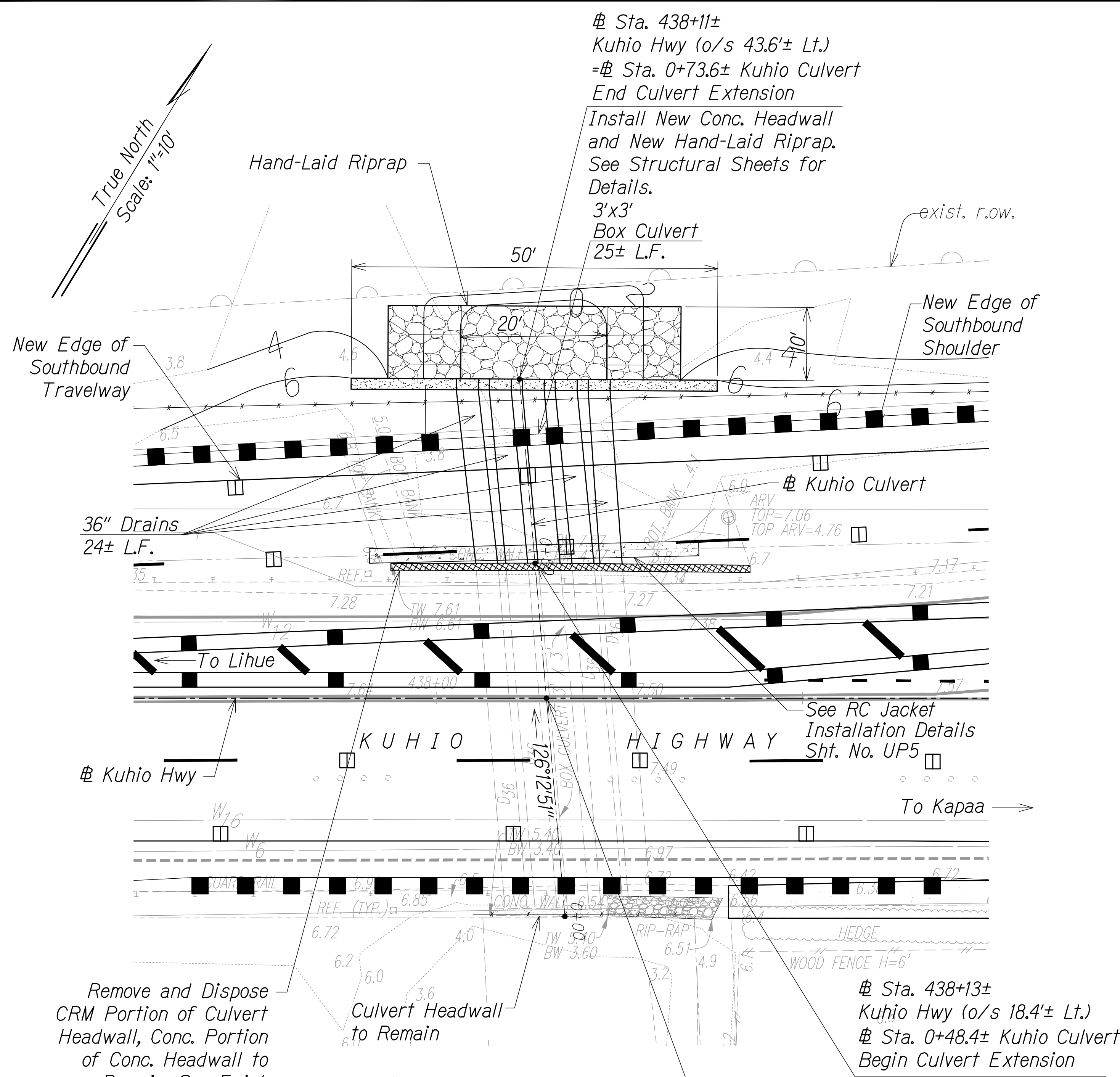


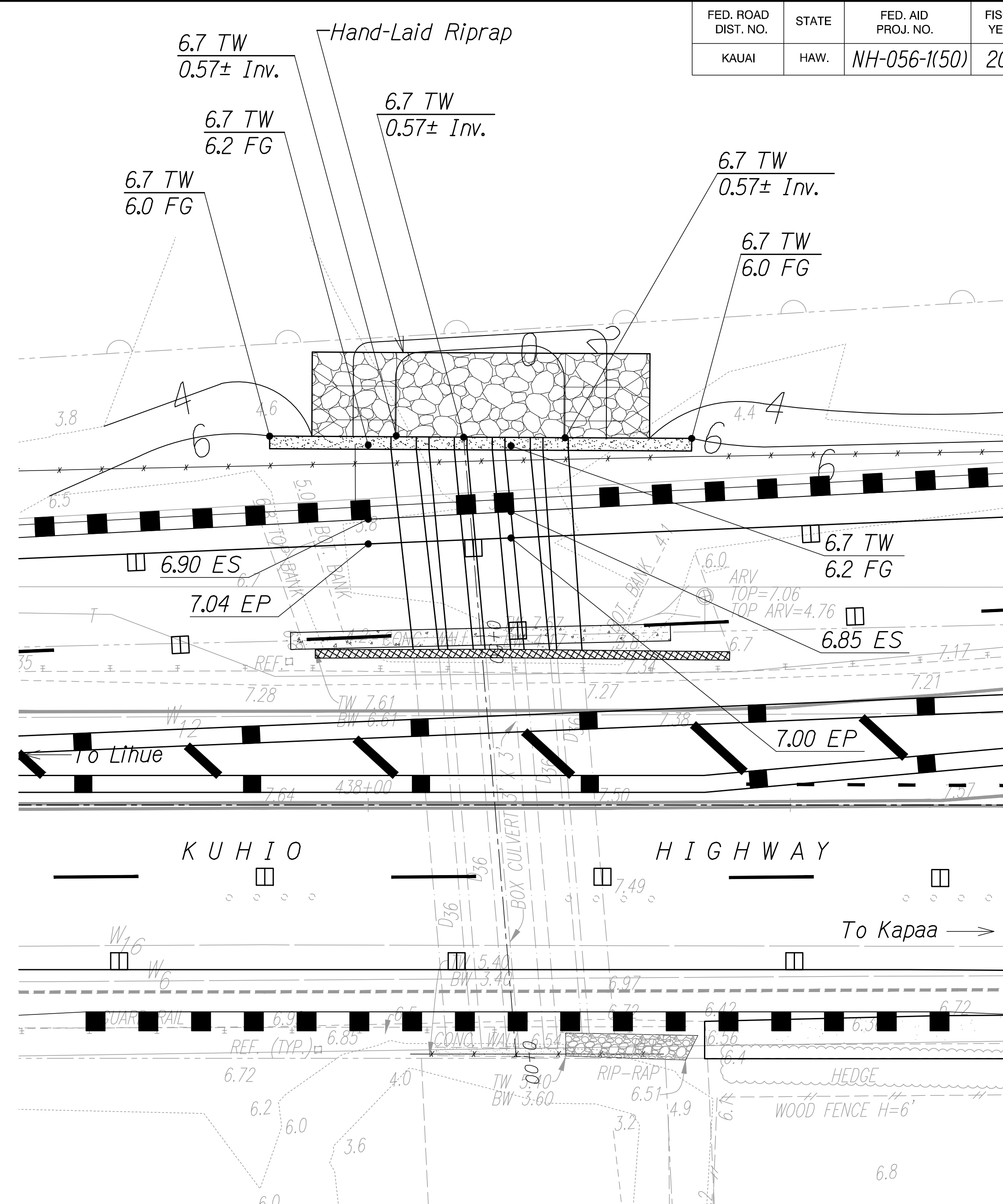
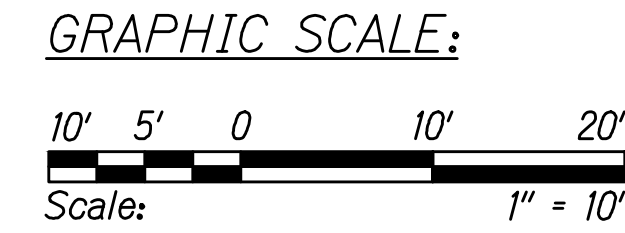
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	C.O.ADD.52	244



**LAYOUT PLAN**  
**EXTENSION OF EXISTING BOX CULVERT**  
**AT STA. 438+15**  
Scale: 1" = 10'

**Notes:**

- Concrete or debris from demolition work shall be removed and not allowed to fall into water way.
- 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 sheathings; or by constructing cofferdams and cribs.
- Contractor shall clean existing culverts.
- Contractor shall protect 14" sewer force main during culvert installation.



**GRADING PLAN**  
**EXTENSION OF EXISTING BOX CULVERT**  
**AT STA. 438+15**  
Scale: 1" = 10'

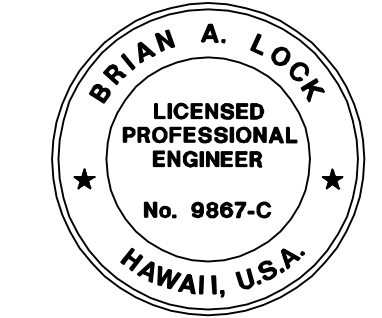
THESE PLANS HAVE BEEN PREPARED UTILIZING INFORMATION PROVIDED BY THE PROJECT CONTRACTOR. THE UPDATED CONSTRUCTION INFORMATION DEPICTED HEREIN HAS NOT BEEN VERIFIED FOR ACCURACY AND COMPLETENESS. NO REPRESENTATION IS BEING MADE TO ITS VALIDITY.

**APPROVED**

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

Date

DATE	REVISION
11/12/19	△ Reissuing plan for legibility only. No design changes have been made.
9/20/19	△ Reissuing plan for legibility only. No design changes have been made.



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WILSON OKAMOTO CORPORATION LIC. EXP. DATE

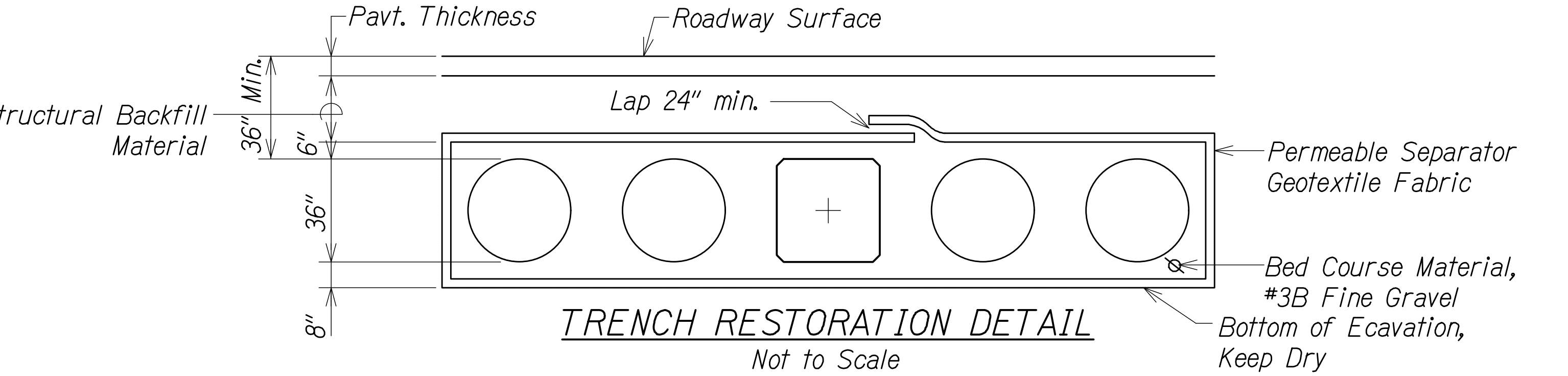
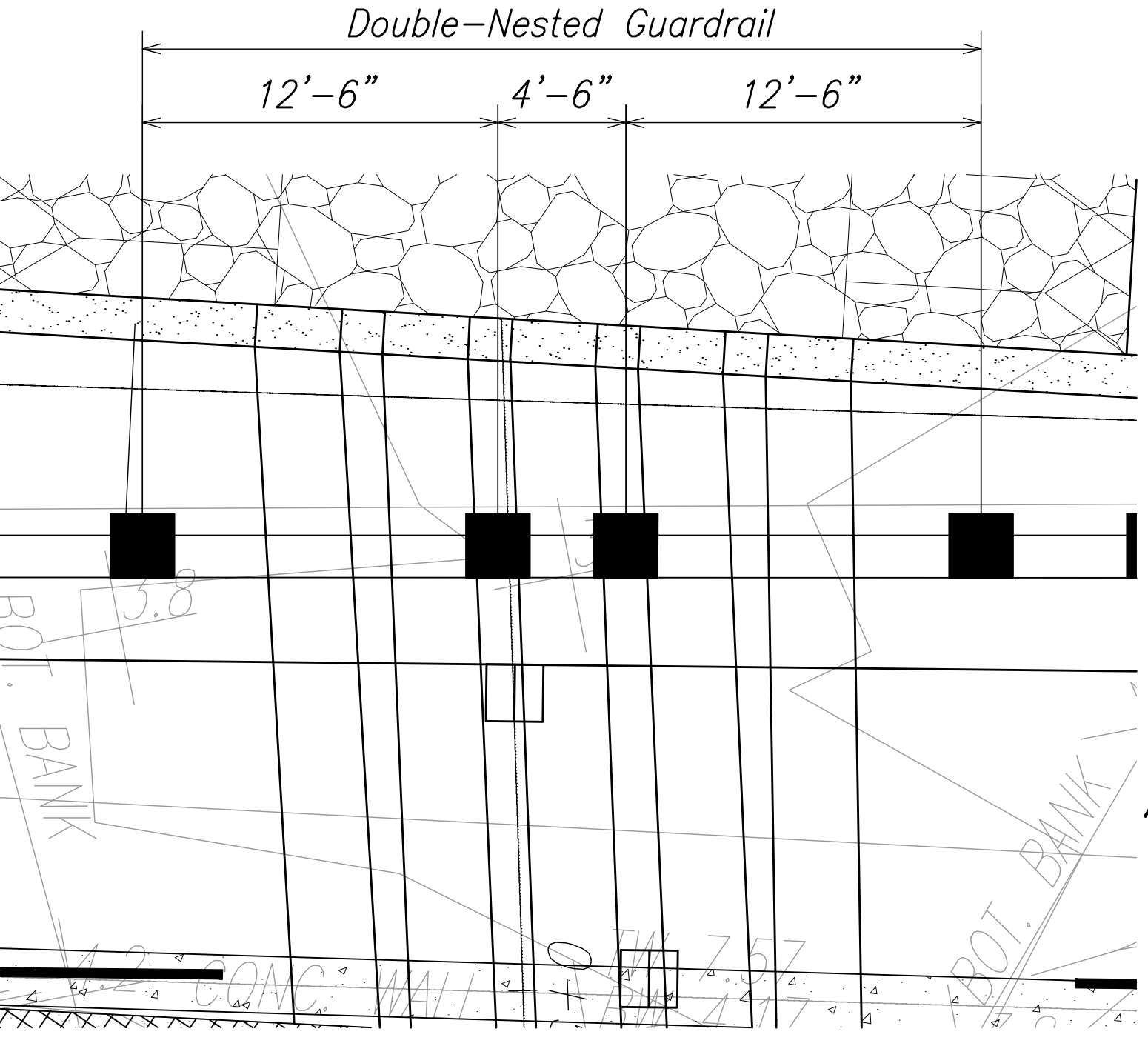
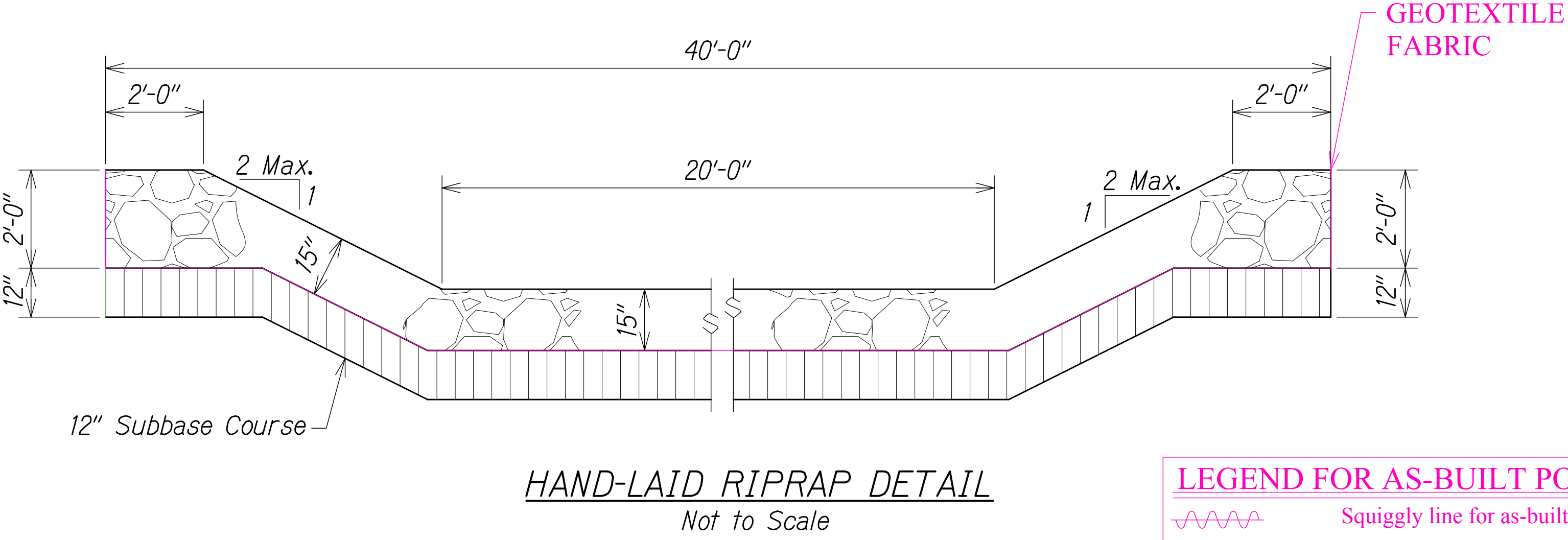
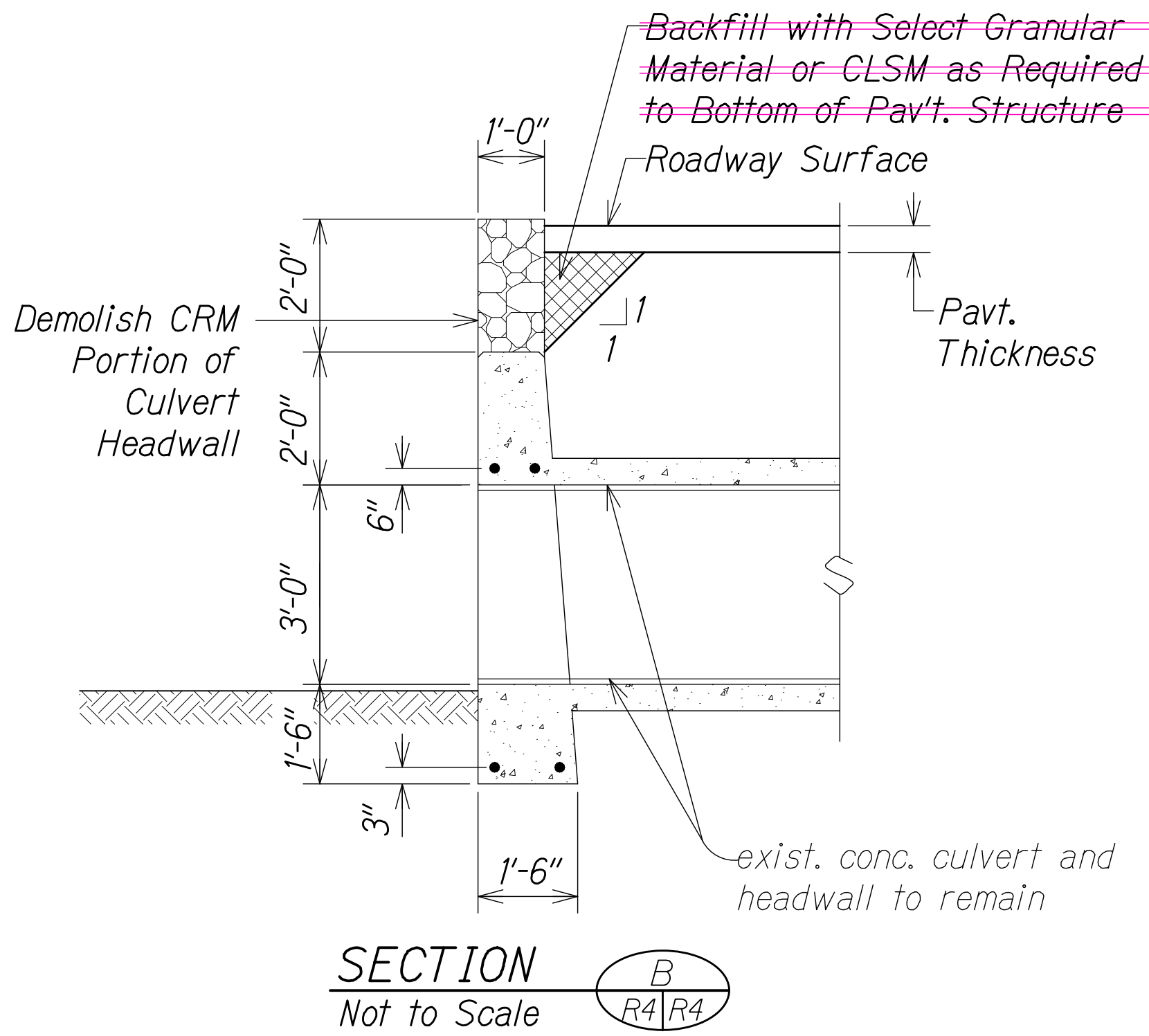
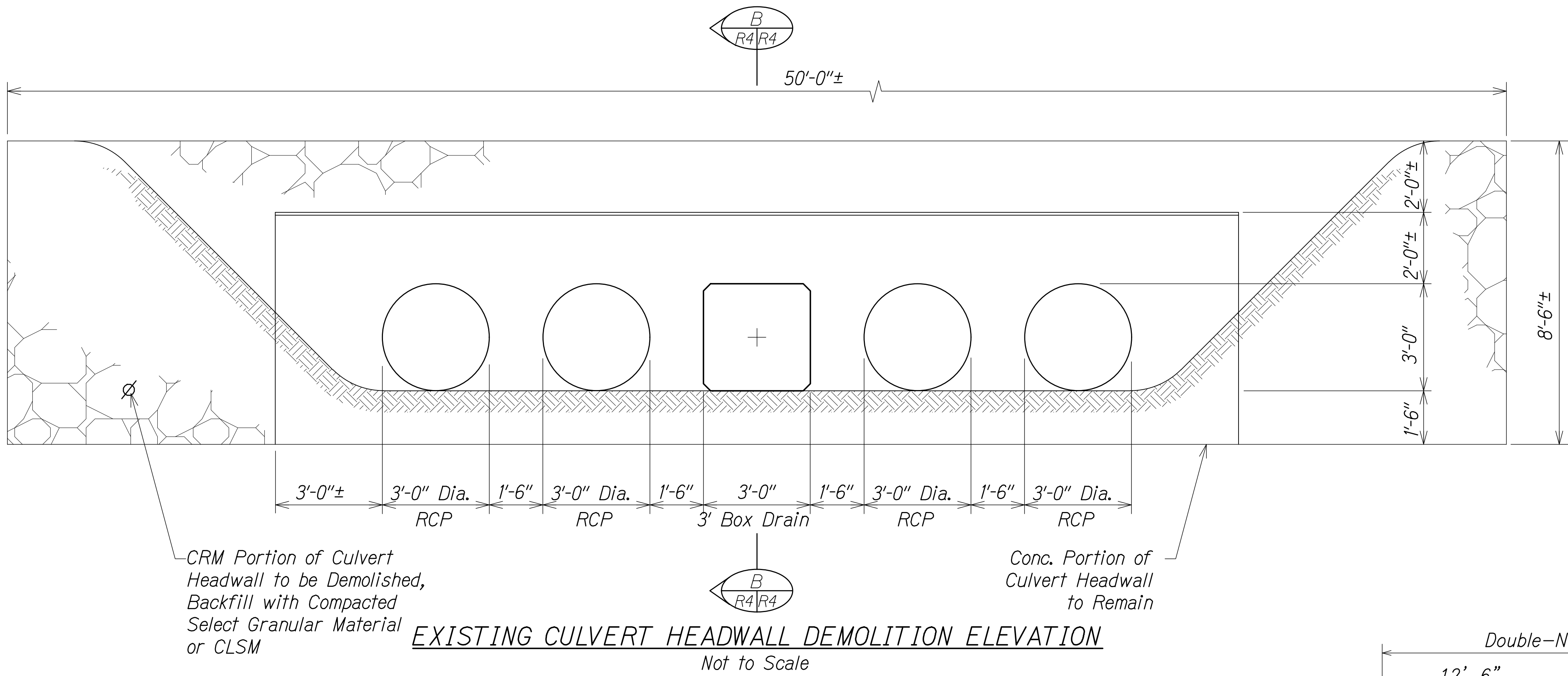
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**KUHIO HIGHWAY**  
**CULVERT EXTENSION**  
**KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD**  
Fed. Aid Proj. No. NH-056-1(50)  
Scale: 1" = 10' Date: July 2019  
SHEET No. *R1* OF 3 SHEETS

"AS-BUILT"

C.O.ADD.52



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	NH-056-1(50)	2019	ADD.53	244



**LEGEND FOR AS-BUILT POSTINGS**

~~~~~ Squiggly line for as-built deletion

==== Double line for as-built deletion

Roadway Text for as-built posting

THESE PLANS HAVE BEEN PREPARED UTILIZING INFORMATION PROVIDED BY THE PROJECT CONTRACTOR. THE UPDATED CONSTRUCTION INFORMATION DEPICTED HEREIN HAS NOT BEEN VERIFIED FOR ACCURACY AND COMPLETENESS. NO REPRESENTATION IS BEING MADE TO ITS VALIDITY.

| DATE     | REVISION                                                                |
|----------|-------------------------------------------------------------------------|
| 11/12/19 | △ Reissuing plan for legibility only. No design changes have been made. |
| 9/20/19  | △ Reissuing plan for legibility only. No design changes have been made. |

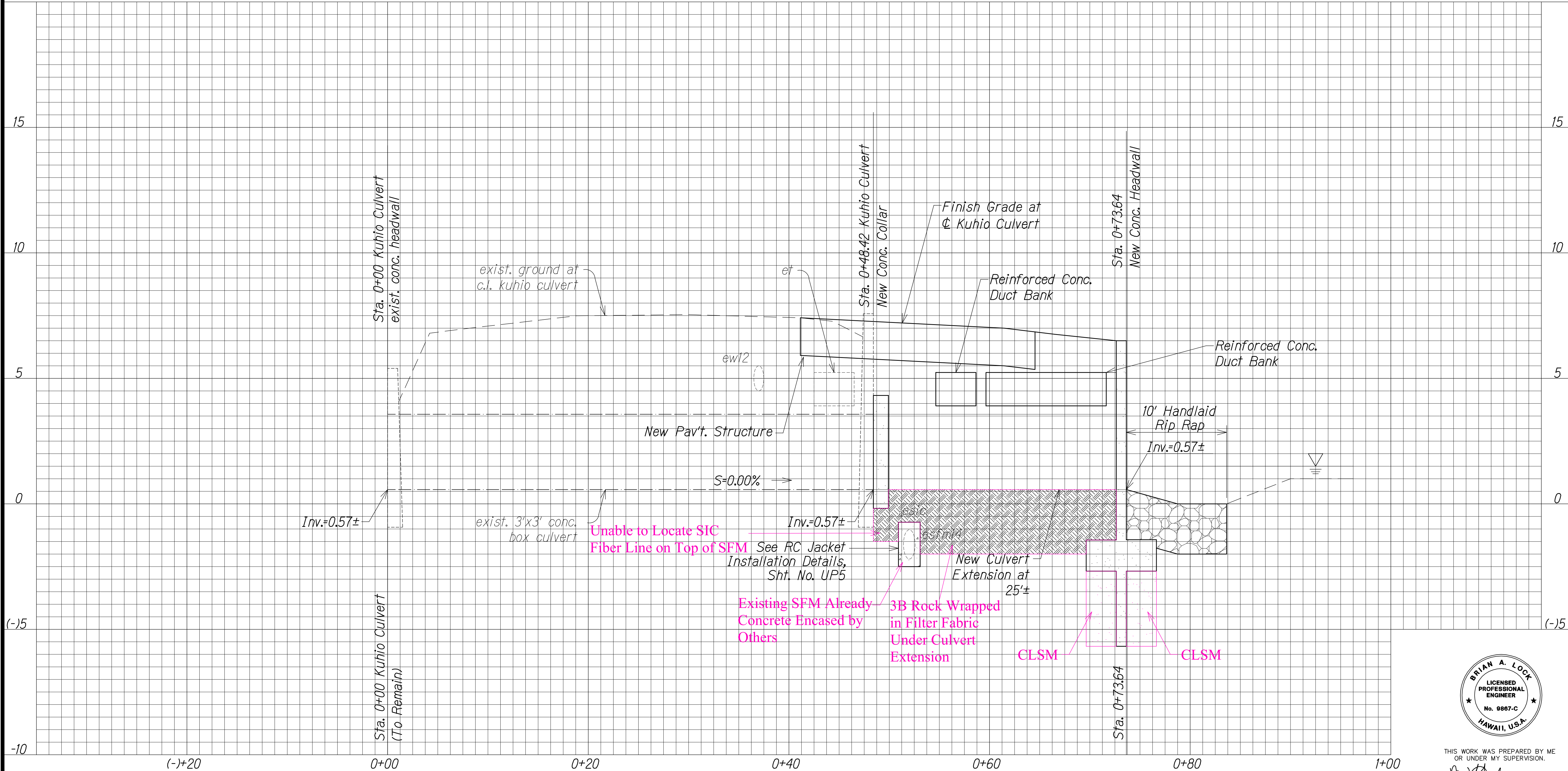
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**KUHIO HIGHWAY**  
**CULVERT EXTENSION DETAILS**  
KUHIO HIGHWAY SHORT-TERM  
IMPROVEMENTS KUAMOO ROAD  
TO TEMPORARY KAPAA BYPASS ROAD  
Fed. Aid Proj. No. NH-056-1(50)  
Scale: As Noted Date: July 2019  
SHEET No. R2 OF 3 SHEETS

BRIAN A. LOCK  
LICENSED PROFESSIONAL ENGINEER  
No. 9867-C  
HAWAII, U.S.A.

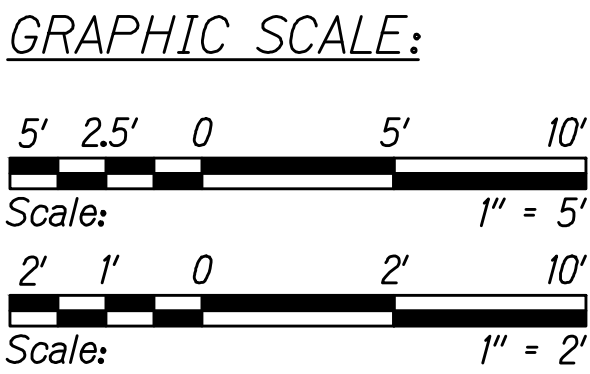
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.  
*[Signature]*  
APRIL 30, 2020  
WILSON OKAMOTO CORPORATION LIC. EXP. DATE

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |





|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | TRACED BY         |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY        |      |



APPROVED

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

Date

PROFILE - 3'x3' BOX CULVERT

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

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

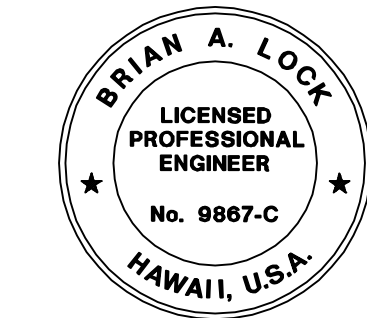
Note:

1. Protect Sandwich Isles communication and sewer force main from damage during construction.

2. Pipe culverts follow box culvert profile

|          |                                                                         |
|----------|-------------------------------------------------------------------------|
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| 9/20/19  | △ Reissuing plan for legibility only. No design changes have been made. |

| DATE | REVISION |
|------|----------|
|------|----------|



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WILSON OKAMOTO CORPORATION  
APRIL 30, 2020  
LIC. EXP. DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PROFILE - KUHIO HIGHWAY**  
**CULVERT EXTENSION**  
**KUHIO HIGHWAY SHORT-TERM IMPROVEMENTS KUAMOO ROAD TO TEMPORARY KAPAA BYPASS ROAD**  
Fed. Aid Proj. No. NH-056-1(50)  
Scale: As Noted Date: July 2019  
SHEET No. R3 OF 3 SHEETS

"AS-BUILT"

C.O.ADD.54