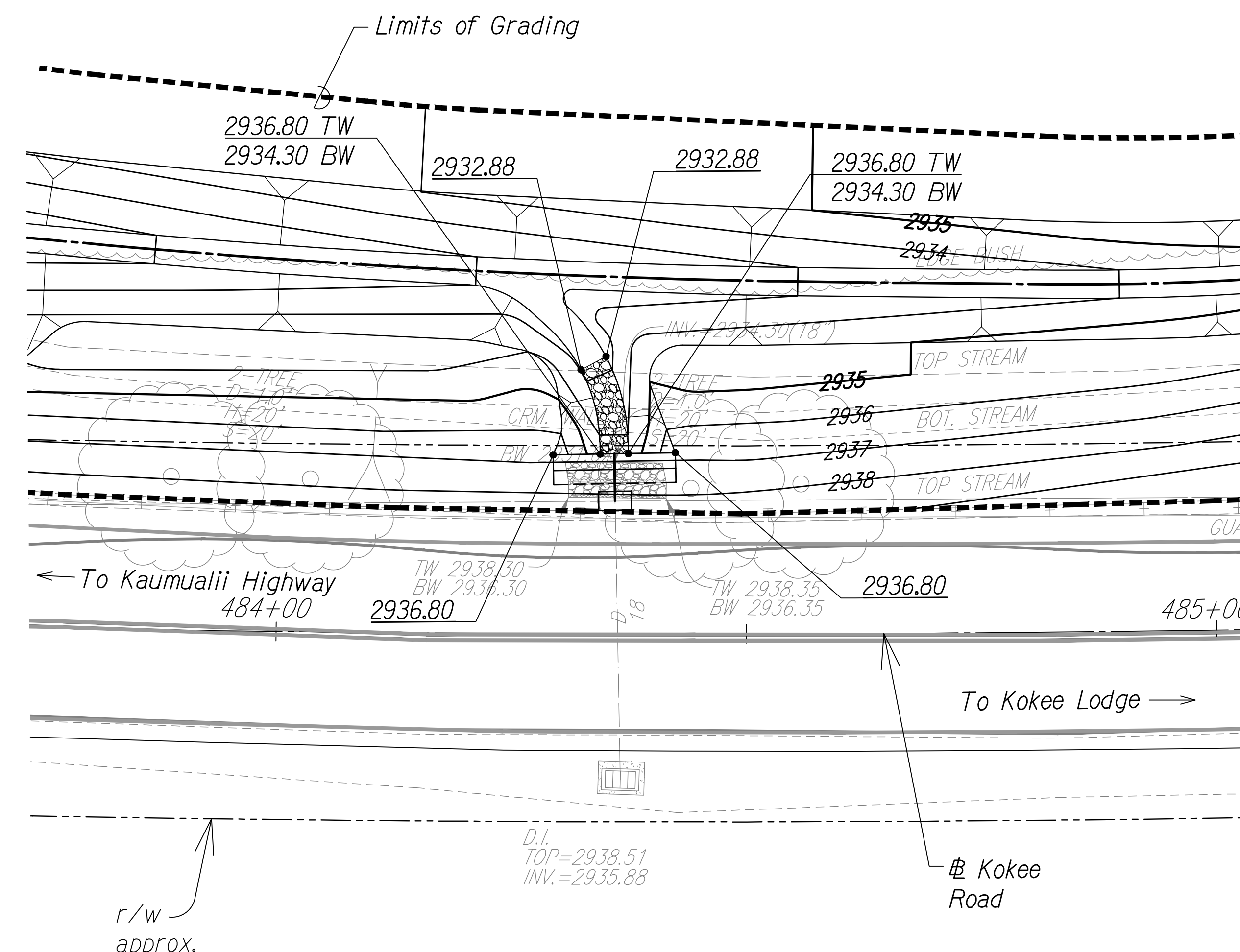
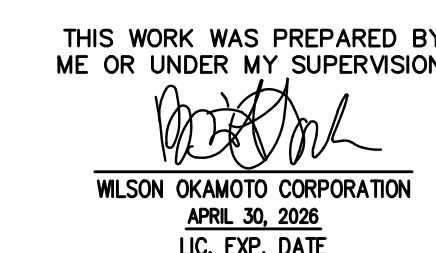
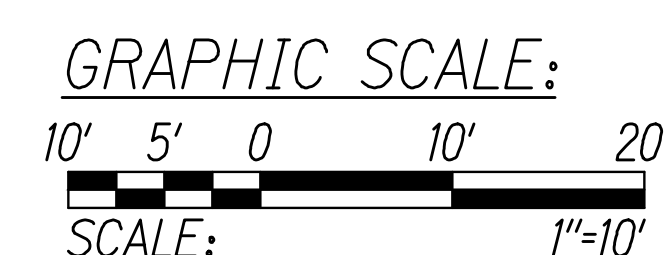


[illegible]

GRADING PLAN
EXTENSION OF EXISTING 18" DRAIN
AT STA. 484+36
Scale: 1" = 10'

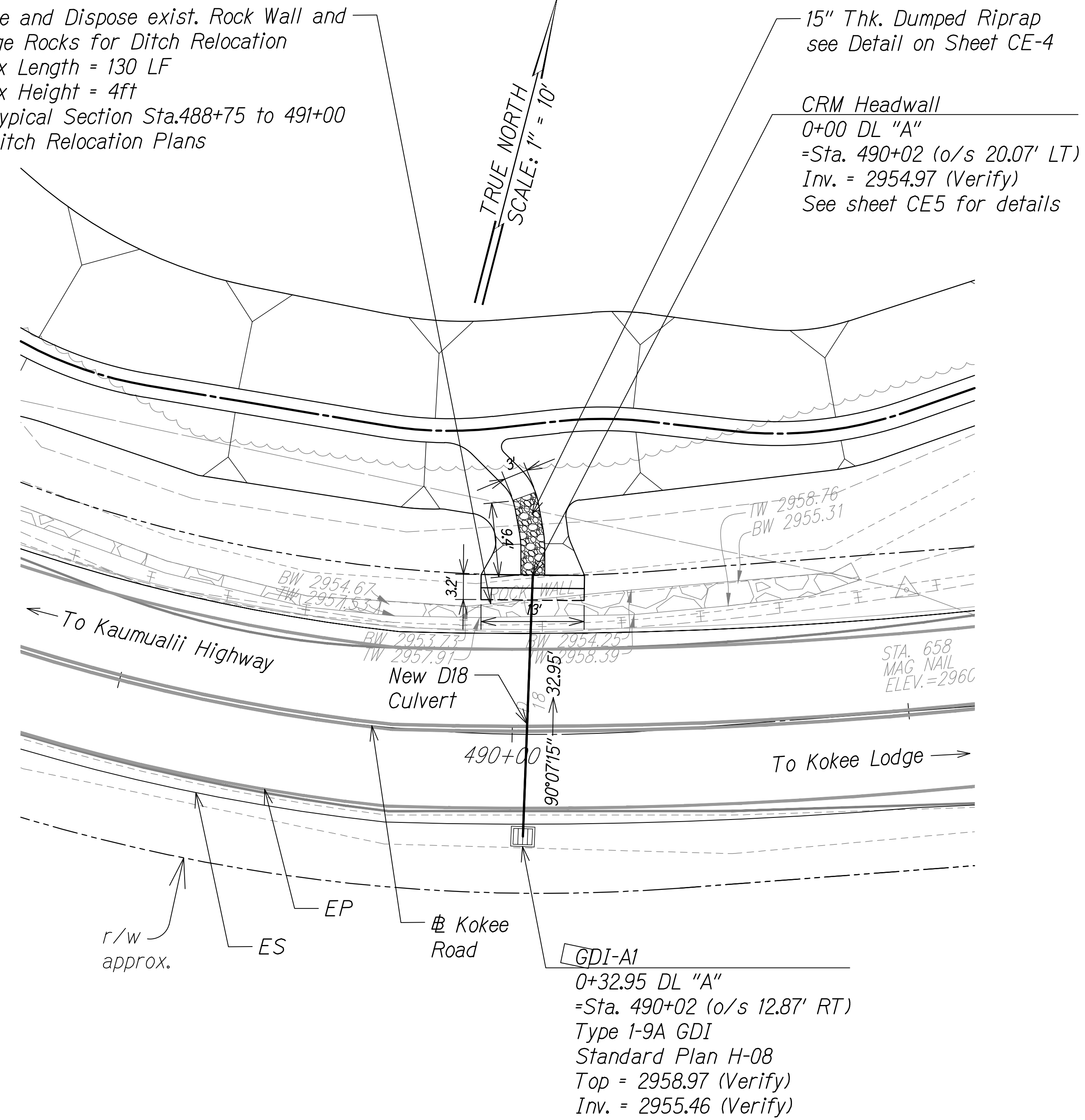


ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

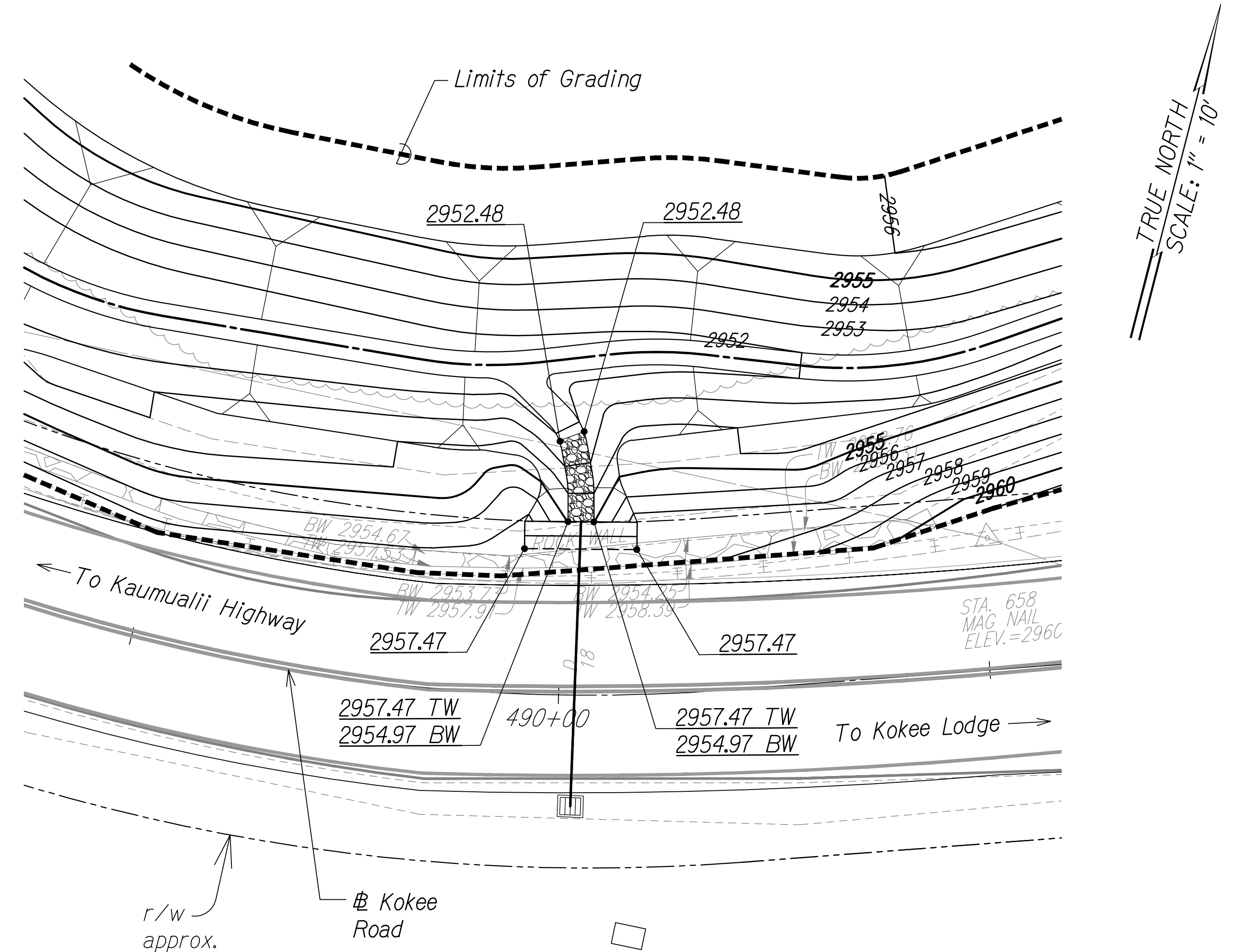


DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	STP-0550(006)	2024	144	325

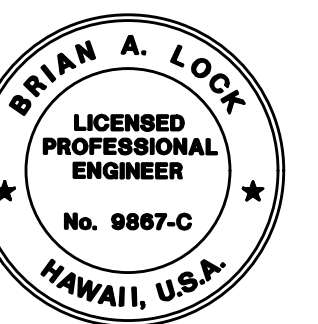
Remove and Dispose exist. Rock Wall and Salvage Rocks for Ditch Relocation
Approx Length = 130 LF
Approx Height = 4ft
See Typical Section Sta.488+75 to 491+00 and Ditch Relocation Plans



LAYOUT PLAN
REPLACEMENT OF EXISTING 18" DRAIN
AT STA. 490+02
Scale: 1" = 10'



GRADING PLAN
REPLACEMENT OF EXISTING 18" DRAIN
AT STA. 490+02
Scale: 1" = 10'



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION
APRIL 30, 2026
LIC. EXP. DATE

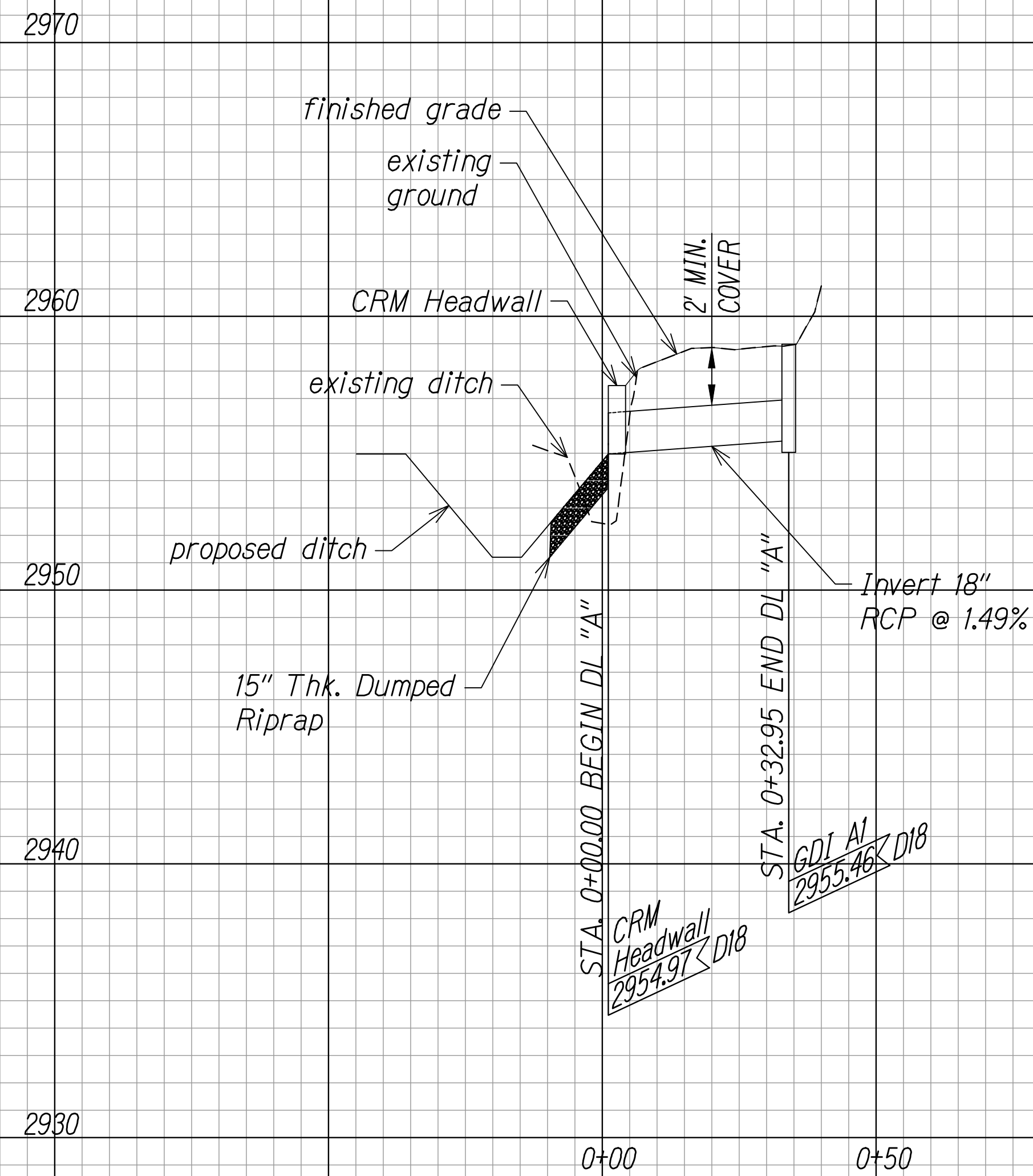
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CULVERT EXTENSION PLAN

WAIMEA CANYON DRIVE /
KOOKEE ROAD IMPROVEMENTS, PHASE 2B
MILE POST 4.6 TO MILE POST 11.5
Federal-Aid Project No. STP-0550(006)
Scale: 1" = 10' Date: July 2024

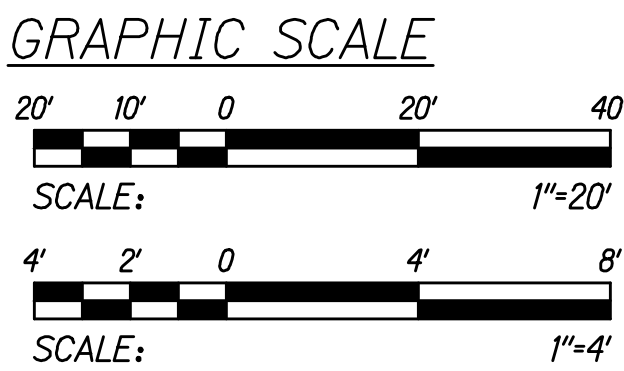
SHEET No. CE2 OF 5 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	STP-0550(006)	2024	145	325

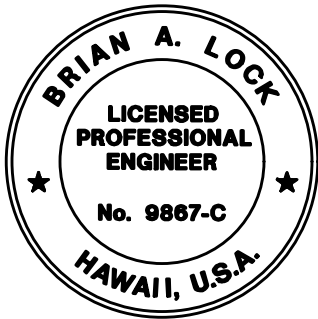


CULVERT DRAIN PROFILE
OF NEW 18" DRAIN
AT STA. 490+02 (MILE POST 9.4)

Scale: 1" = 20' (H)
1" = 4' (V)



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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION
APRIL 30, 2026
LIC. EXP. DATE

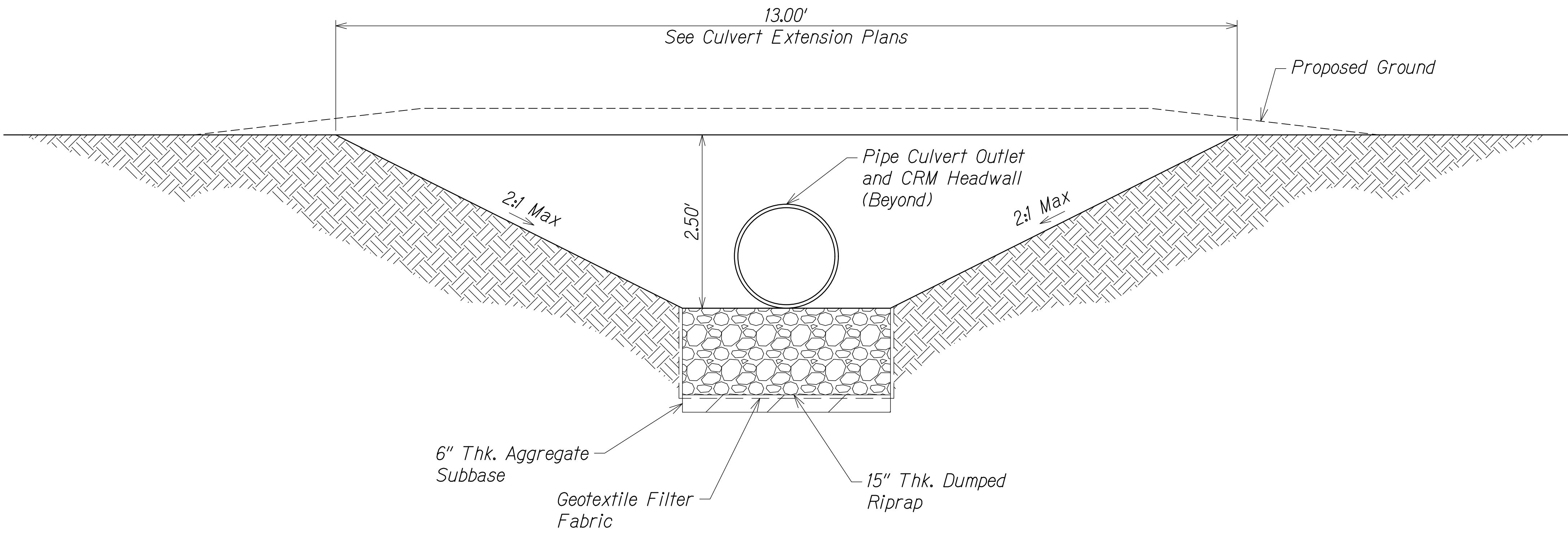
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CULVERT PROFILE

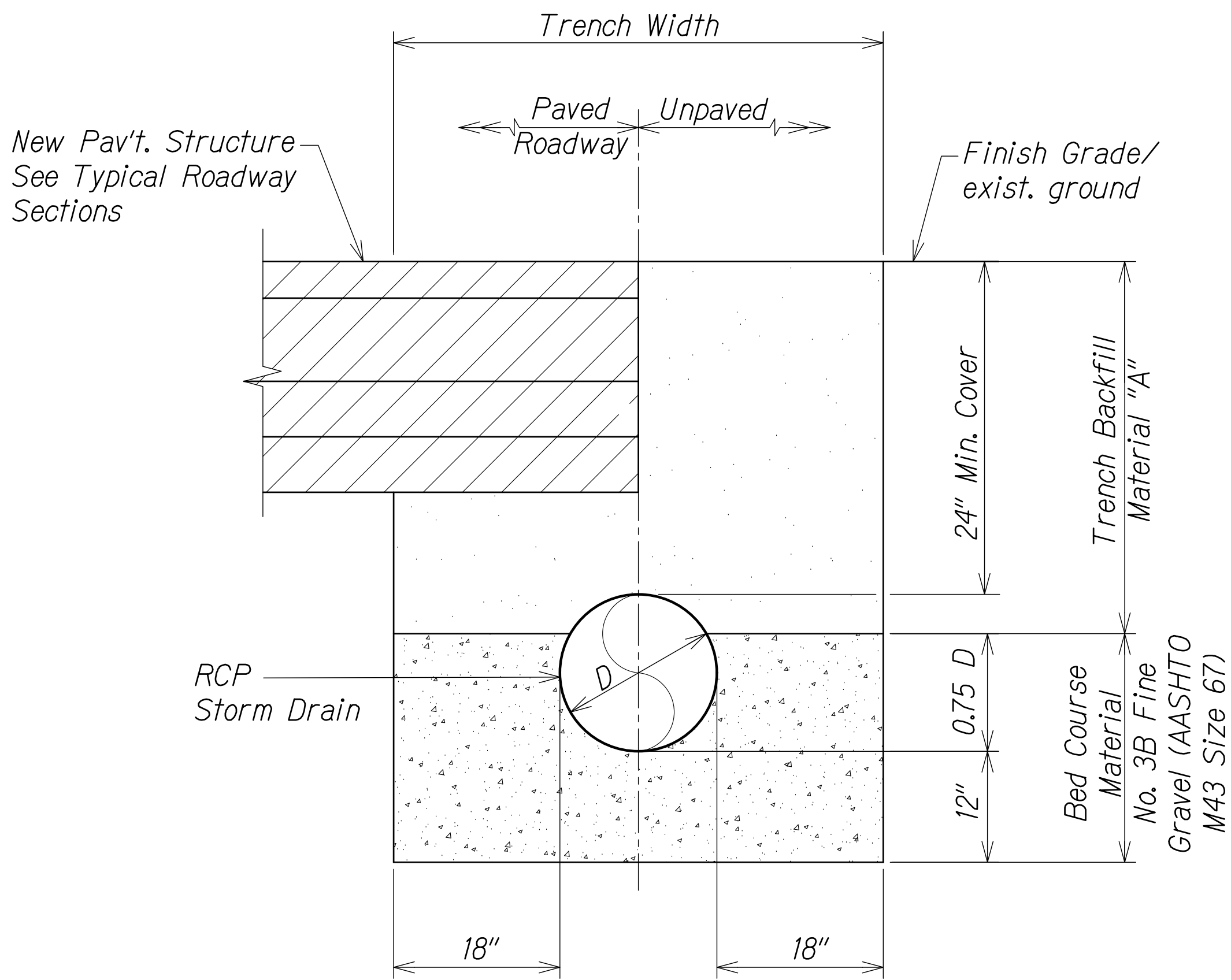
WAIMEA CANYON DRIVE /
KOEKE ROAD IMPROVEMENTS, PHASE 2B
MILE POST 4.6 TO MILE POST 11.5
Federal-Aid Project No. STP-0550(006)
Scale: 1" = 20' (H), 1" = 4' (V) Date: July 2024

SHEET No. CE3 OF 5 SHEETS

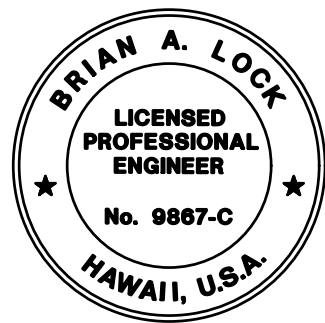
DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	STP-0550(006)	2024	ADD.146	325



TYPICAL SECTION OF RIPRAP AT CULVERT OULET
Not to Scale



TYPICAL STORM DRAIN TRENCH RESTORATION DETAIL
Not to Scale



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
[Signature]
WILSON OKAMOTO CORPORATION
APRIL 30, 2026
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CULVERT EXTENSION
DETAILS
WAIMEA CANYON DRIVE /
KOEKE ROAD IMPROVEMENTS, PHASE 2B
MILE POST 4.6 TO MILE POST 11.5
Federal-Aid Project No. STP-0550(006)
Scale: 1" = 20' Date: July 2024

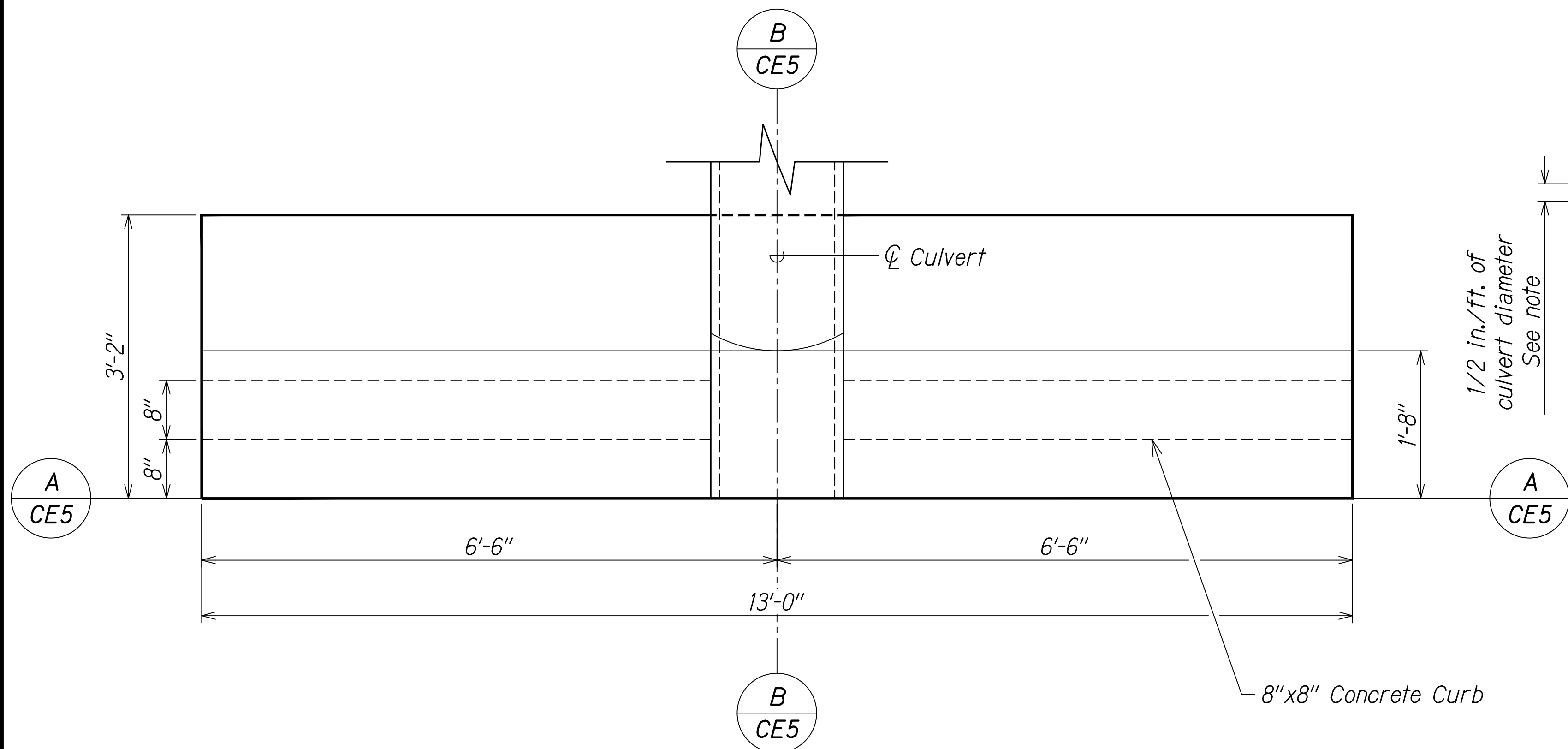
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

11/13/24 Added Detail

DATE REVISION

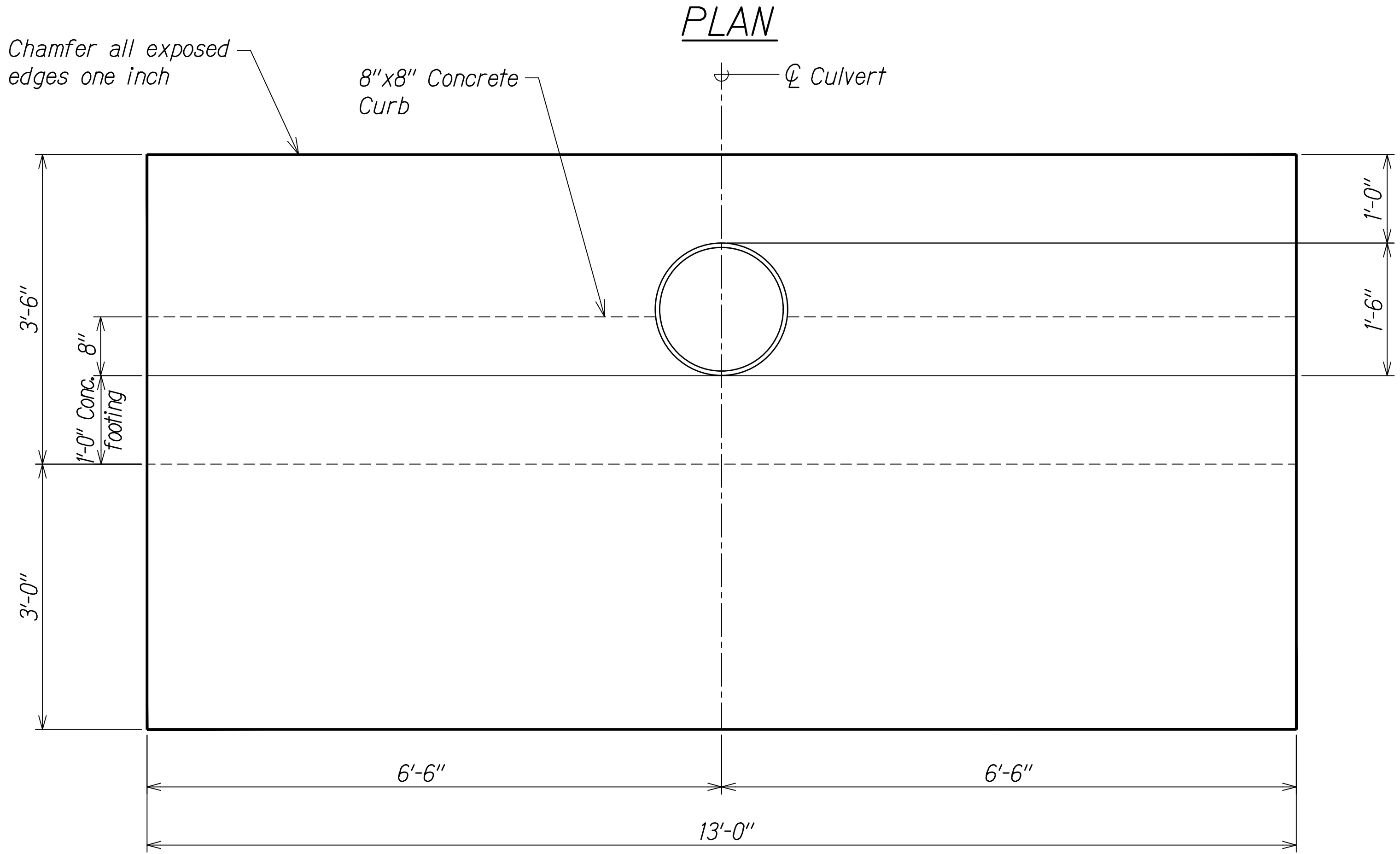
SHEET No. CE4 OF 5 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAW.	STP-0550(006)	2024	147	325

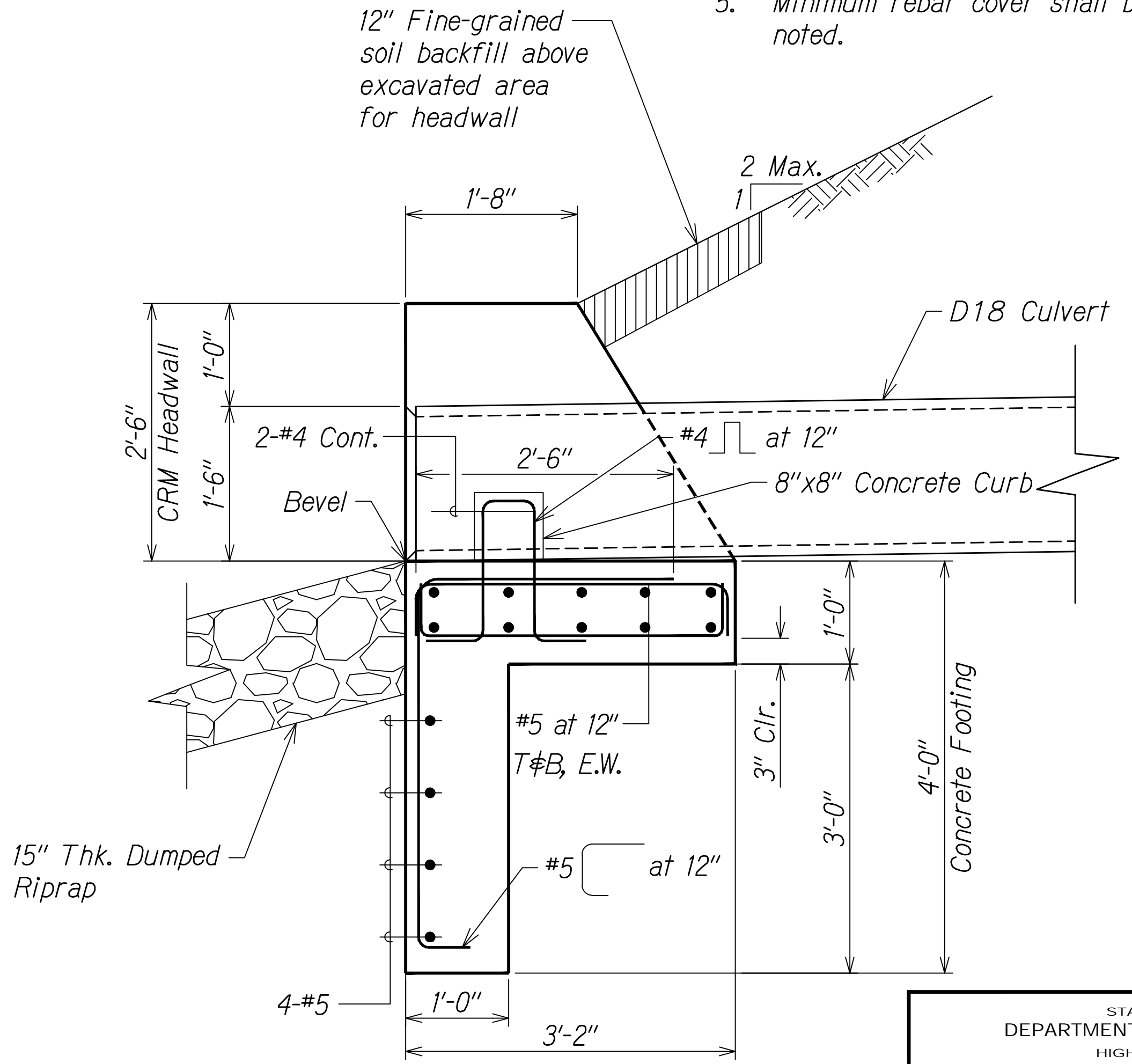


BEVEL DETAIL

- General Notes:
- Construct bevels 1/2 in./ft. of culvert diameter or rise. Minimum bevel size shall be 2 inches.
 - The groove or bell end of the concrete culvert may be used in place of the bevel.
 - Design Criteria
 - Active Horizontal Pressure = 60 pcf (2 to 1 sloping backfill, above groundwater)
 - Active Vertical Pressure = 30 pcf (2 to 1 sloping backfill, above groundwater)
 - Allowable Bearing Capacity = 2,500 psf
 - Headwalls were not designed for Extreme Event Load Combination.
 - See B-01 in HDOT Standard Plans for additional notes.
 - Minimum rebar cover shall be 2" unless otherwise noted.



SECTION A



SECTION B

CRM HEADWALL DETAIL

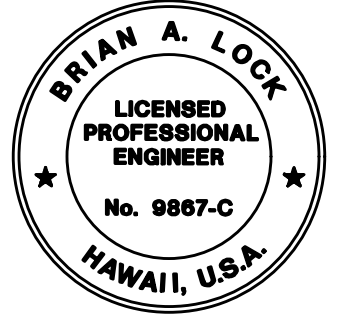
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CRM HEADWALL DETAIL

WAIMEA CANYON DRIVE /
KOEKE ROAD IMPROVEMENTS, PHASE 2B
MILE POST 4.6 TO MILE POST 11.5
Federal-Aid Project No. STP-0550(006)
Scale: NTS Date: July 2024

ORIGINAL PLAN	DATE
NOTED BY	DESIGNED BY
QUANTITIES BY	CHECKED BY
No.	



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

WILSON OKAMOTO CORPORATION
APRIL 30, 2026
LIC. EXP. DATE