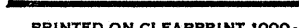
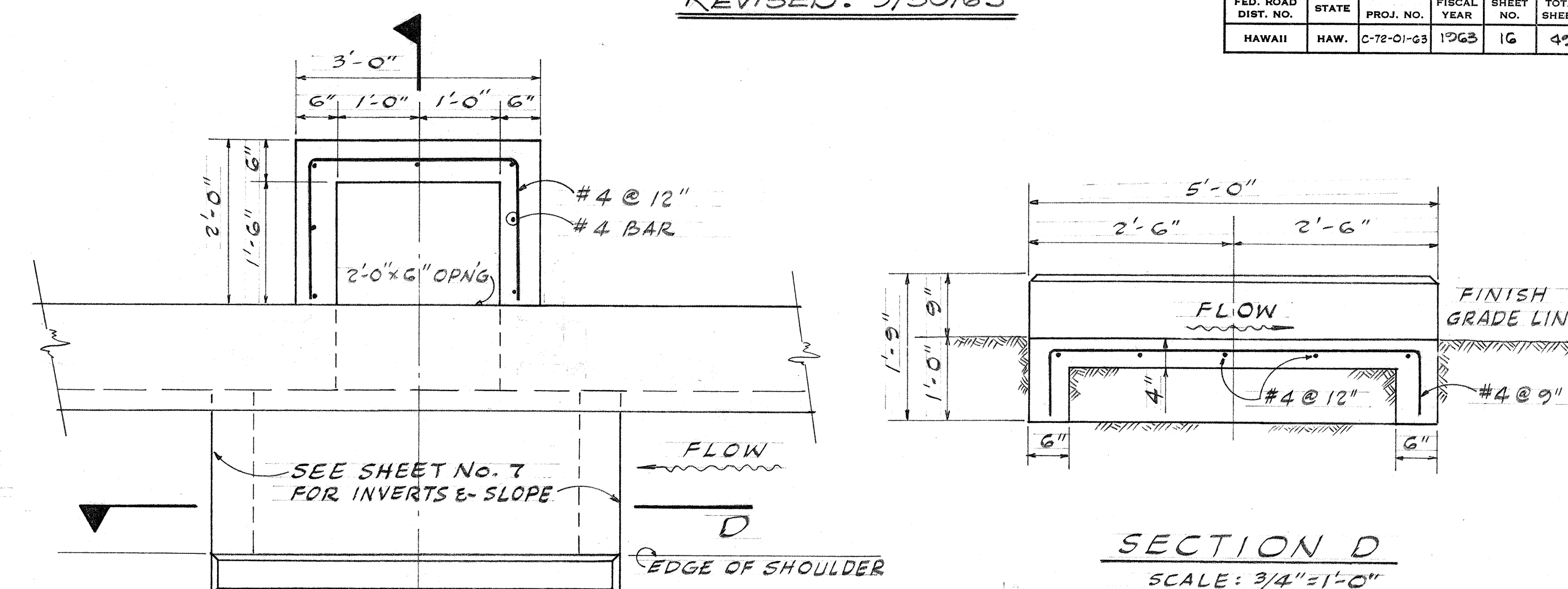


ORIGINAL PLAN	SURVEY PLOTTED BY.....	DATE.....
NOTE BOOK	DRAWN BY.....	BY.....
	TRACED BY.....	BY.....
	DESIGNED BY.....	BY.....
	QUANTITIES BY.....	BY.....
No.....	CHECKED BY.....	BY.....





PLAN
SCALE: $\frac{3}{4}" = 1' - 0"$

DETAIL DRAIN INLET - STATION 54+50±

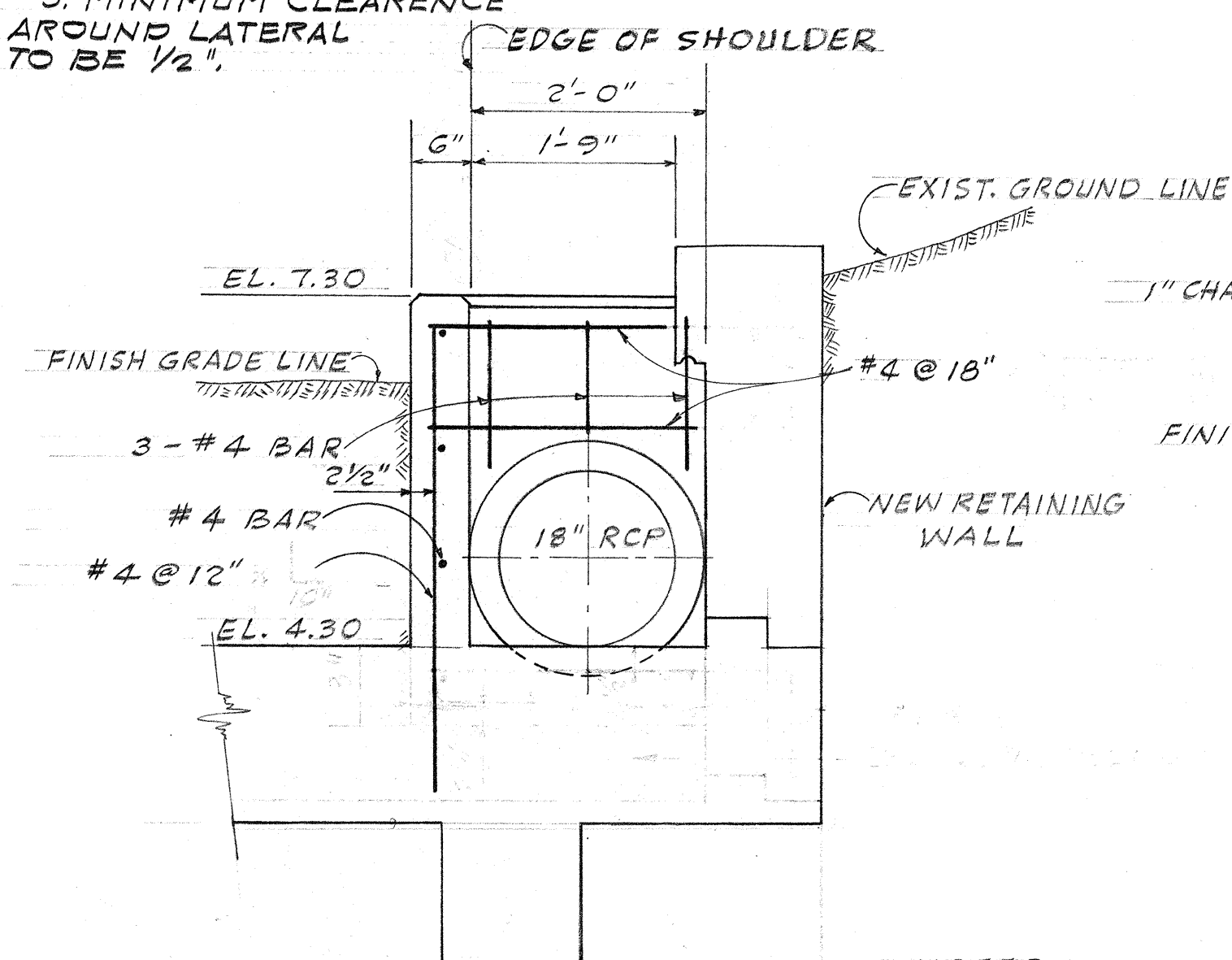
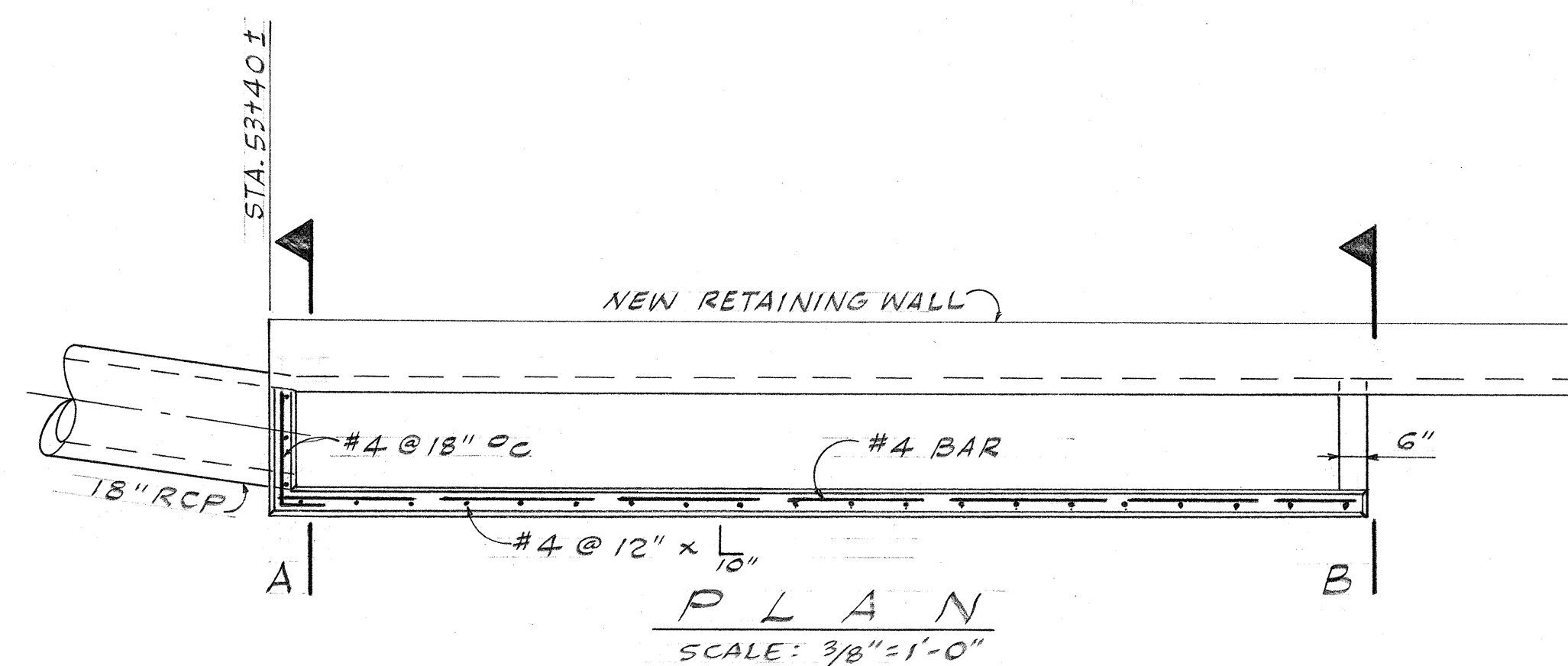
WALL # 4
SEE SHEET 38 FOR WALL DETAILS.

NOTES:

1. FACE OF RETAINING WALL
TO BE SET 2'-0" BACK OF
EDGE OF SHOULDER (32'-0"
FROM ROAD Φ) SEE
SECTIONS BELOW.

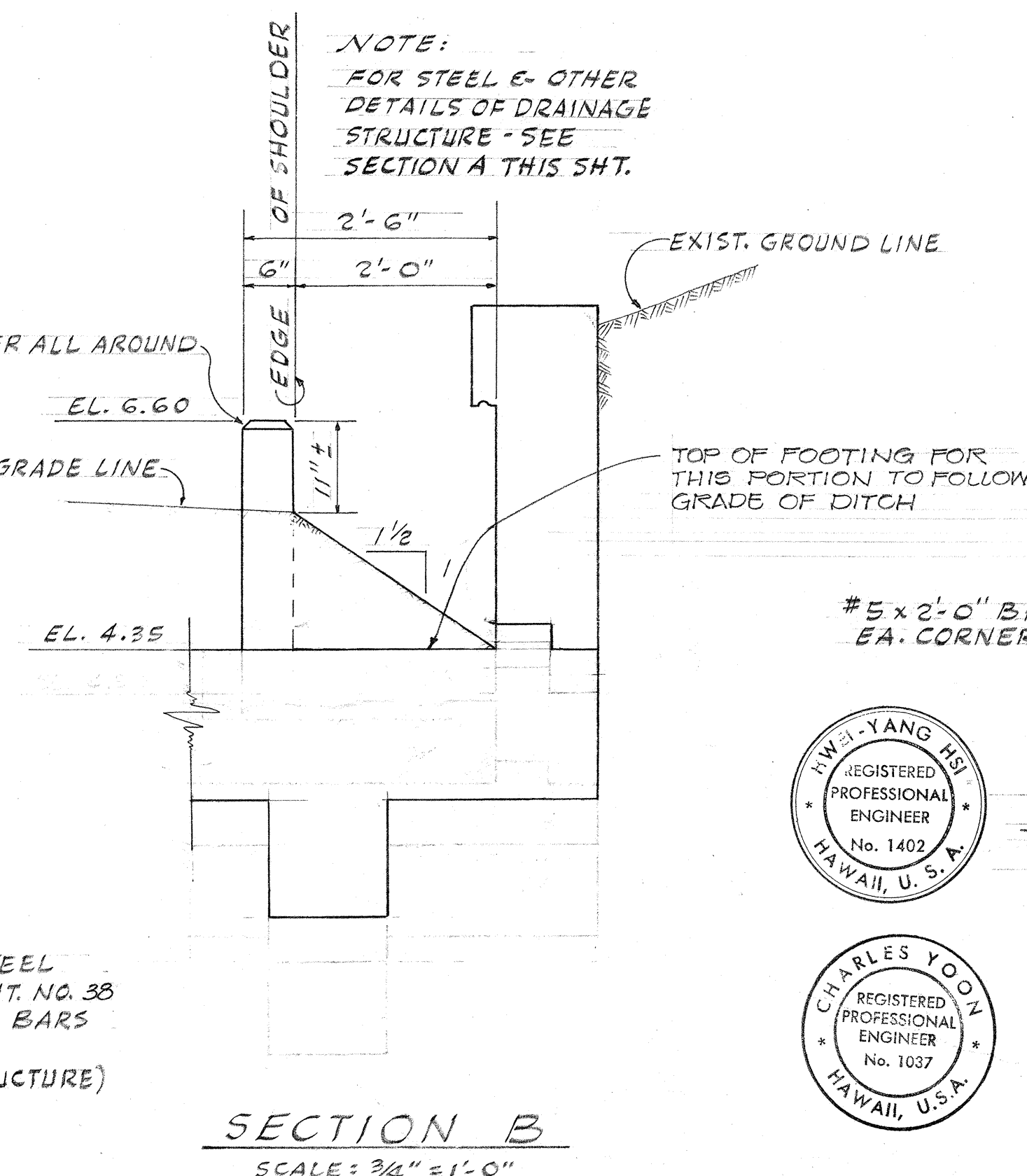
2. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SLEEVES FOR THE PASSAGE OF WATER SERVICE LATERALS THRU THE RETAINING WALLS.

3. MINIMUM CLEARANCE
AROUND LATERAL
TO BE $\frac{1}{2}$ " EDGE OF SHOULDER

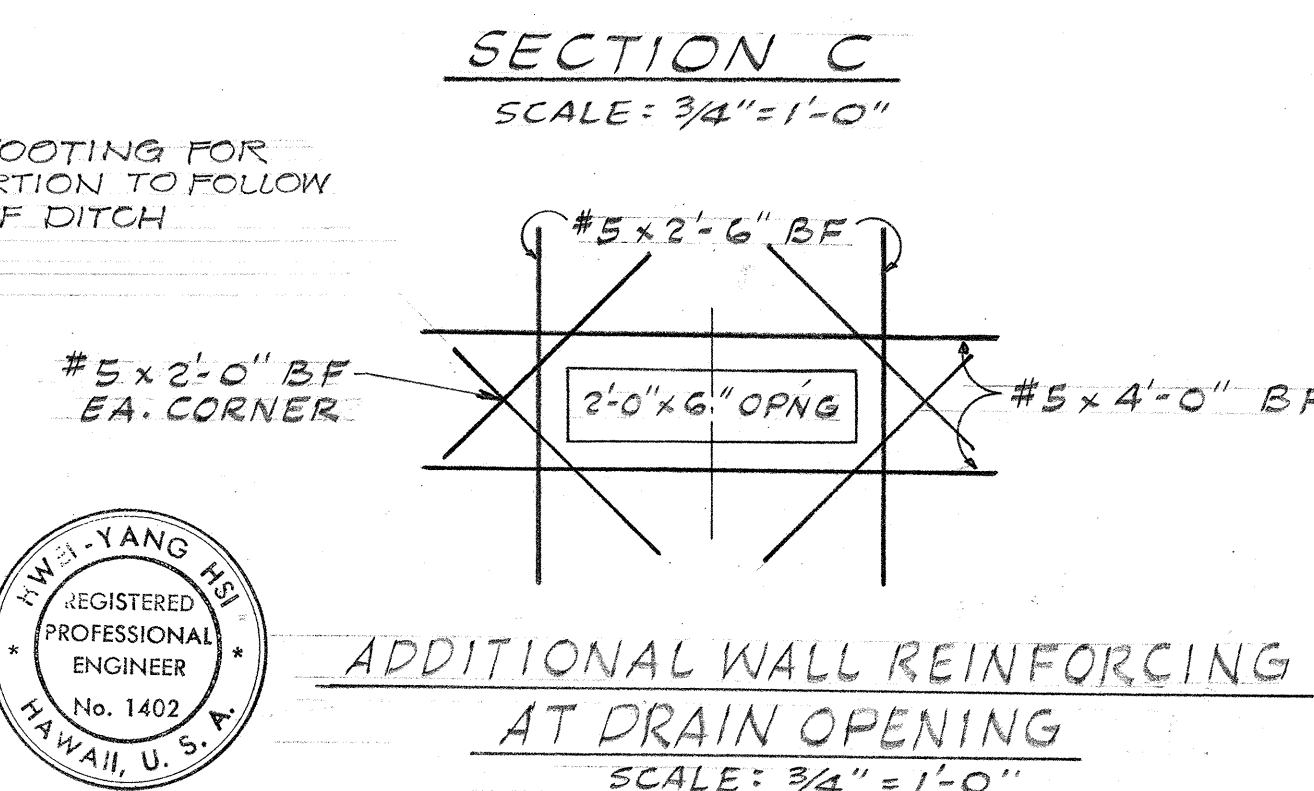


NOTES:

1. RETAINING WALL STEEL
NOT SHOWN. SEE SHT. NO. 38
2. ALL LONGITUDINAL BARS
ARE #4 BARS.
(FOR DRAINAGE STRUCTURE)



SECTION B
SCALE: $\frac{3}{4}" = 1'-0"$



ADDITIONAL WALL REINFORCING
AT DRAIN OPENING
SCALE: $\frac{3}{4}" = 1'-0"$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
KALANIANA'OLE HIGHWAY WIDENING
CONCRETE RETAINING WALL #4

PROJECT NO. C72-01-63
SHEET No. 16 OF 49 SHEETS

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

EL. 7.30

EL. 7.30 (TOP OF RETAINING WALL)

EL. 6.60

18" RCP

TO NEW HEADWALL

FLOW

DITCH INV. 4.30

20'-0"

DITCH INV. 4.35

ELEVATION

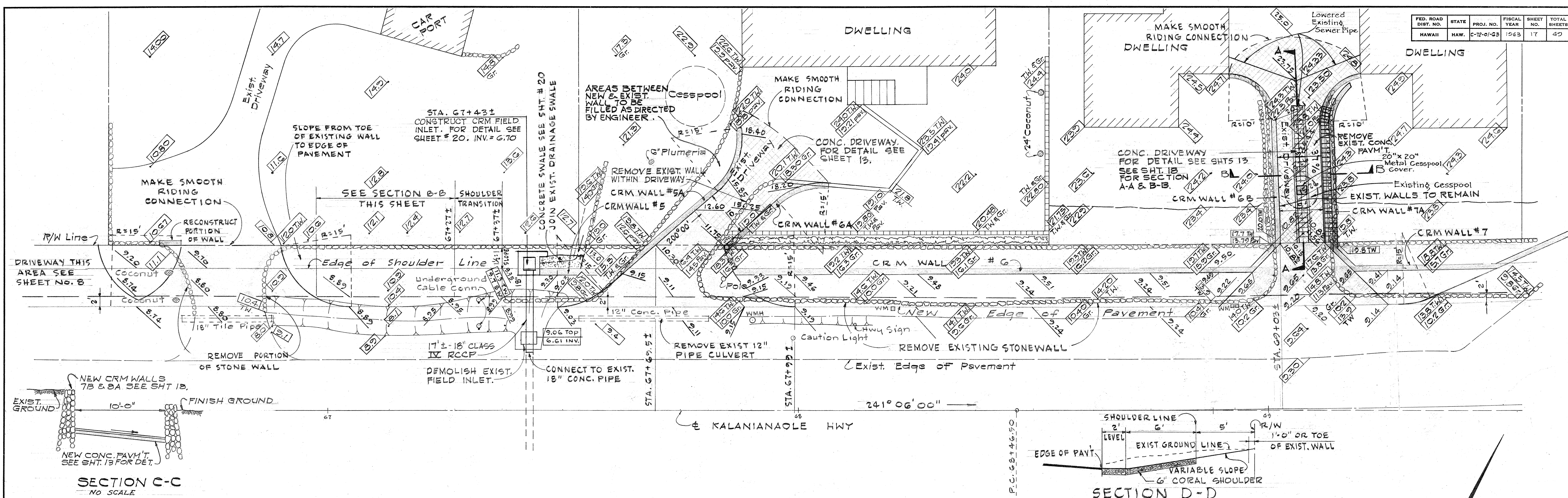
SCALE: 3/8" = 1'-0"

TOP OF FOOTING TO FOLLOW GRADE OF DITCH. SEE SECTION B.

SECTION A
SCALE: $\frac{3}{4}" = 1'-0"$

DETAIL DRAIN INLET - STATION 53+40±

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	C-72-01-63	1963	17	47

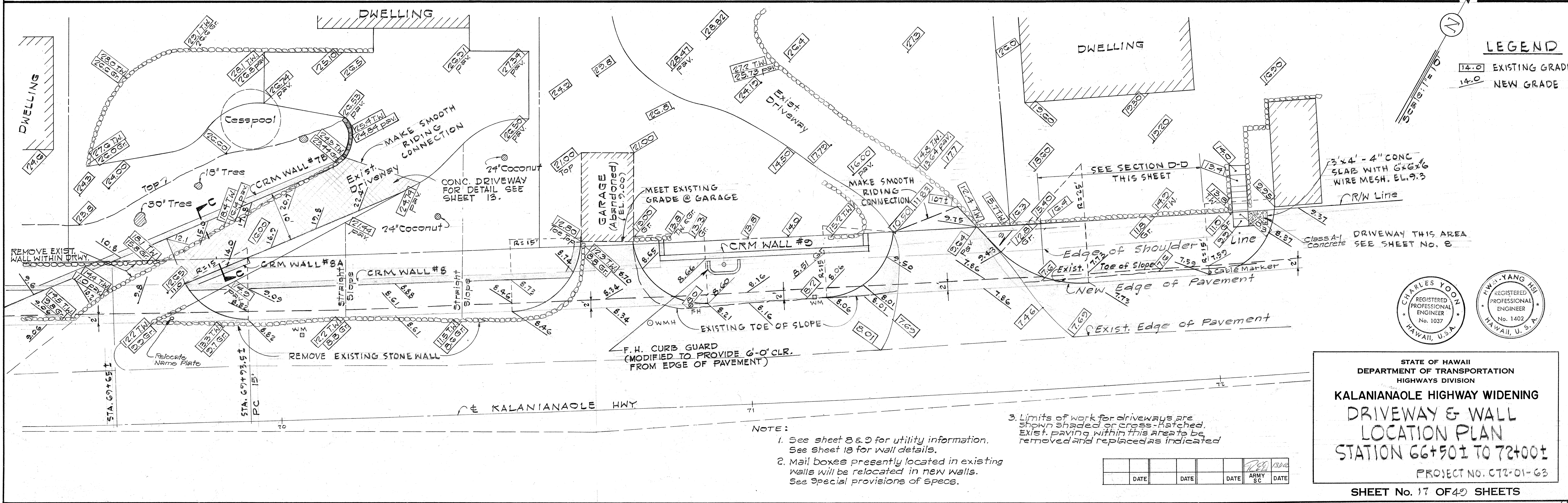


SECTION C-C
NO SCALE

SECTION D-D

LEGEND

14.0	EXISTING GRADE
14.0	NEW GRADE



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KALANIANA'OLE HIGHWAY WIDENING
DRIVEWAY & WALL
LOCATION PLAN
STATION 66+50.1 TO 72+00.1**

PROJECT NO. C72-01-63

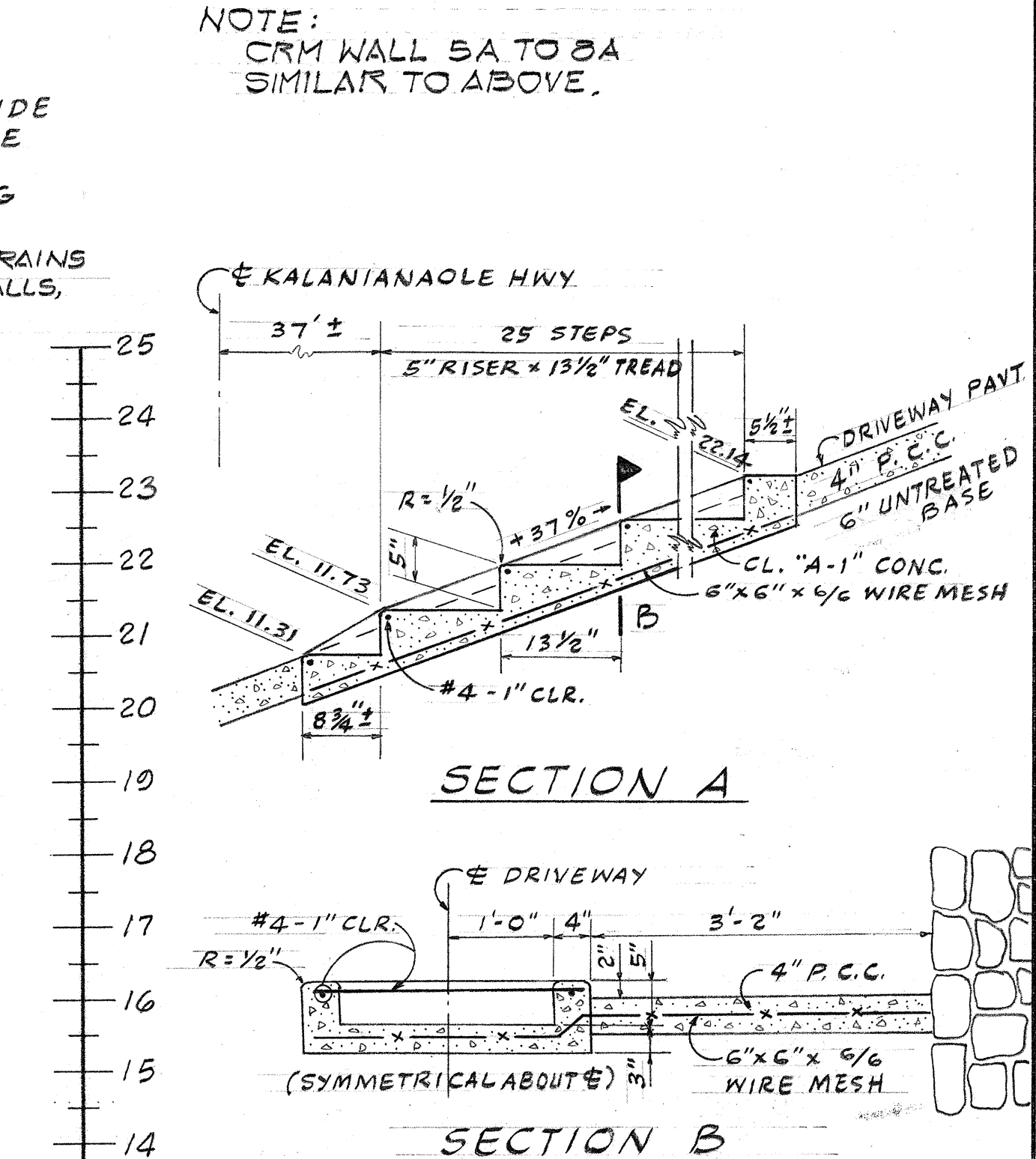
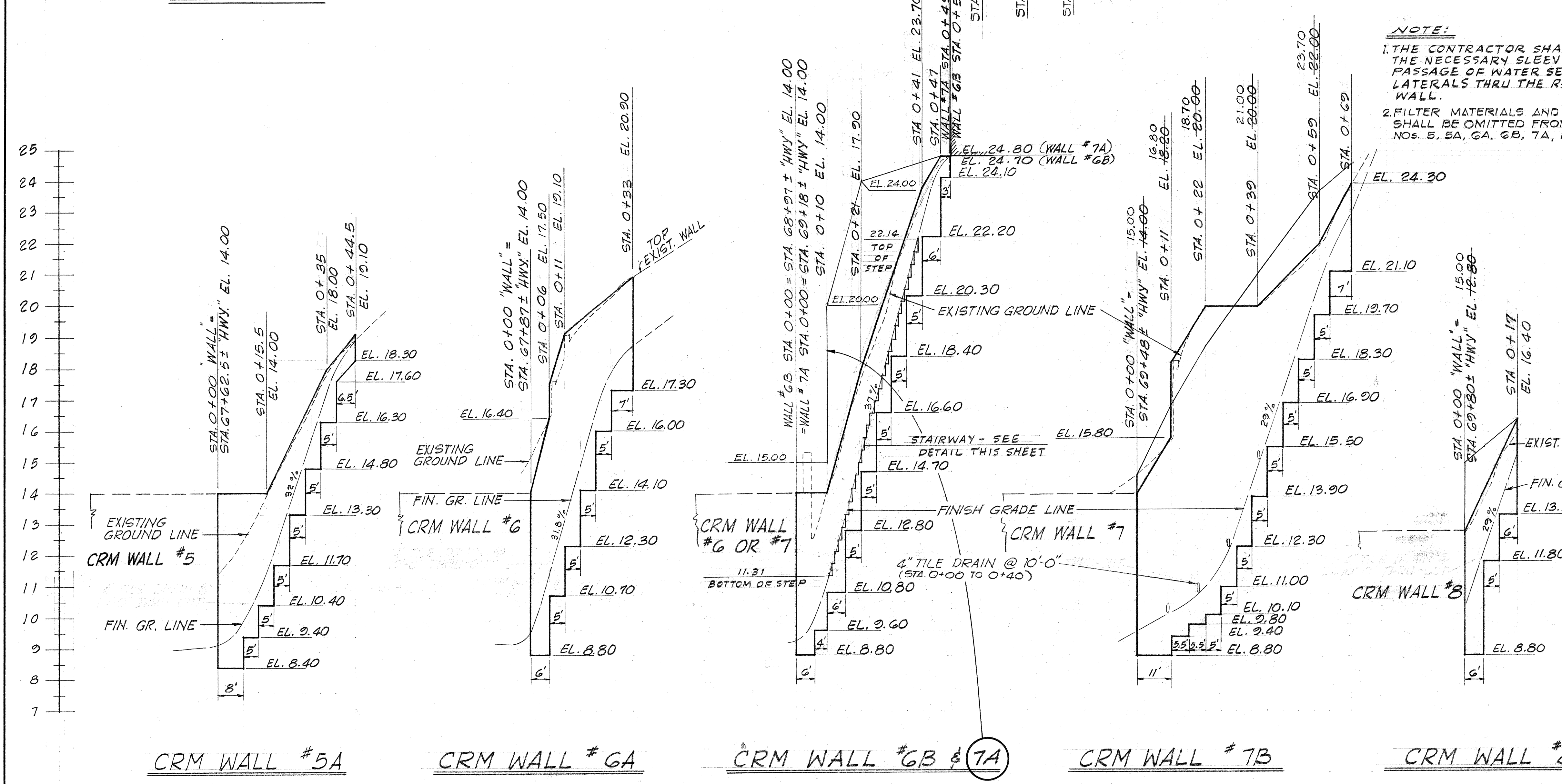
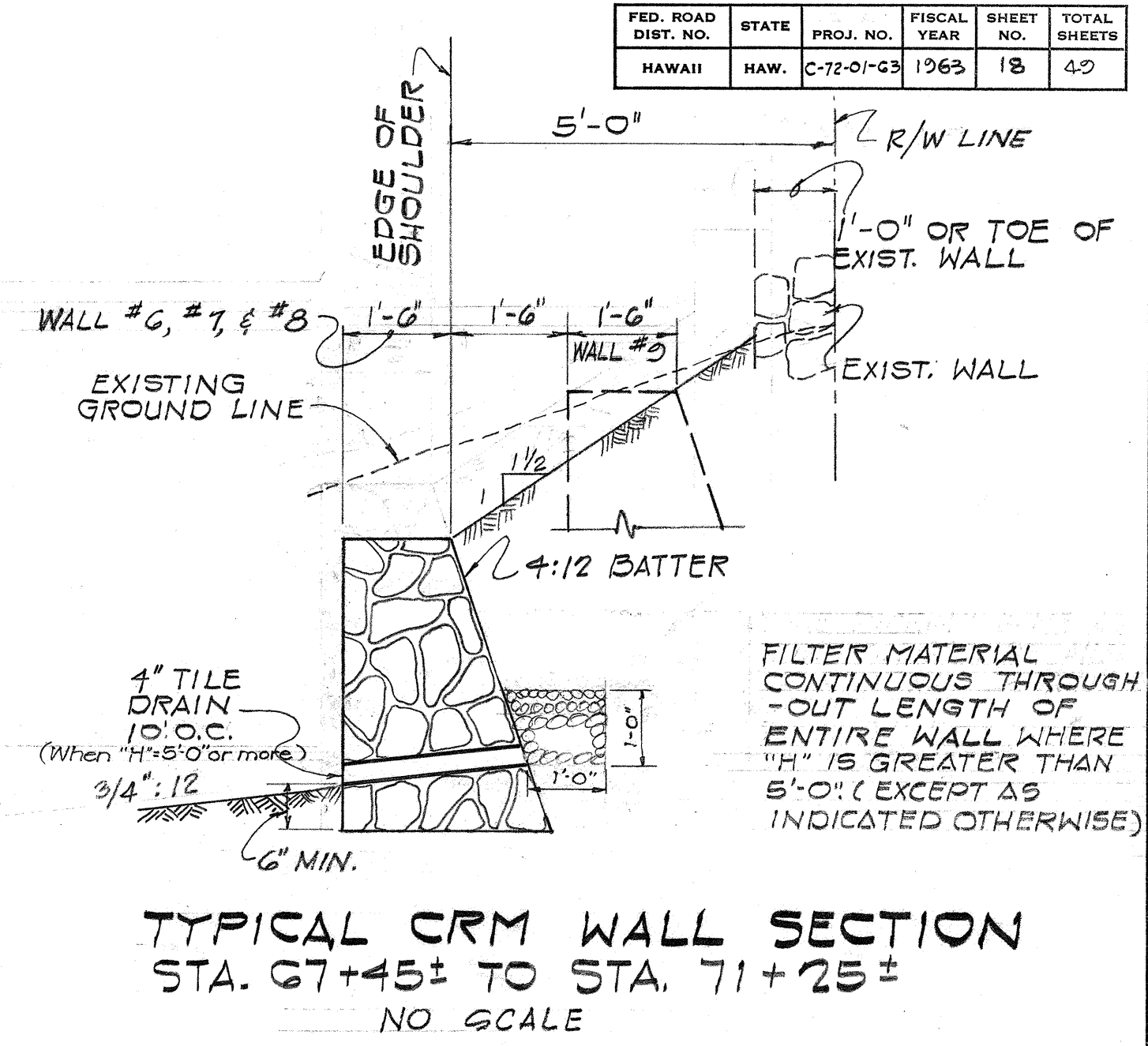
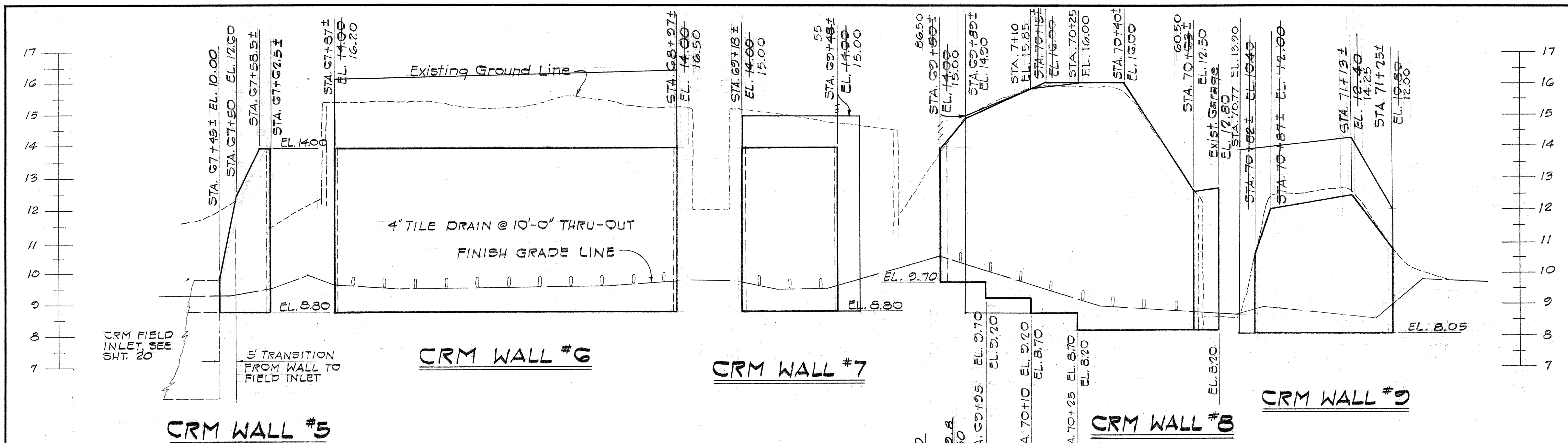
SHEET No. 17 OF 47 SHEETS

CHARLES YOON
REGISTERED PROFESSIONAL ENGINEER
No. 1037
HAWAII, U.S.A.

YANG HSI
REGISTERED PROFESSIONAL ENGINEER
No. 1402
HAWAII, U.S.A.

DATE	BY
DESIGNED BY	BY
CHECKED BY	BY
NO.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	C-72-01-G3	1963	18	40



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

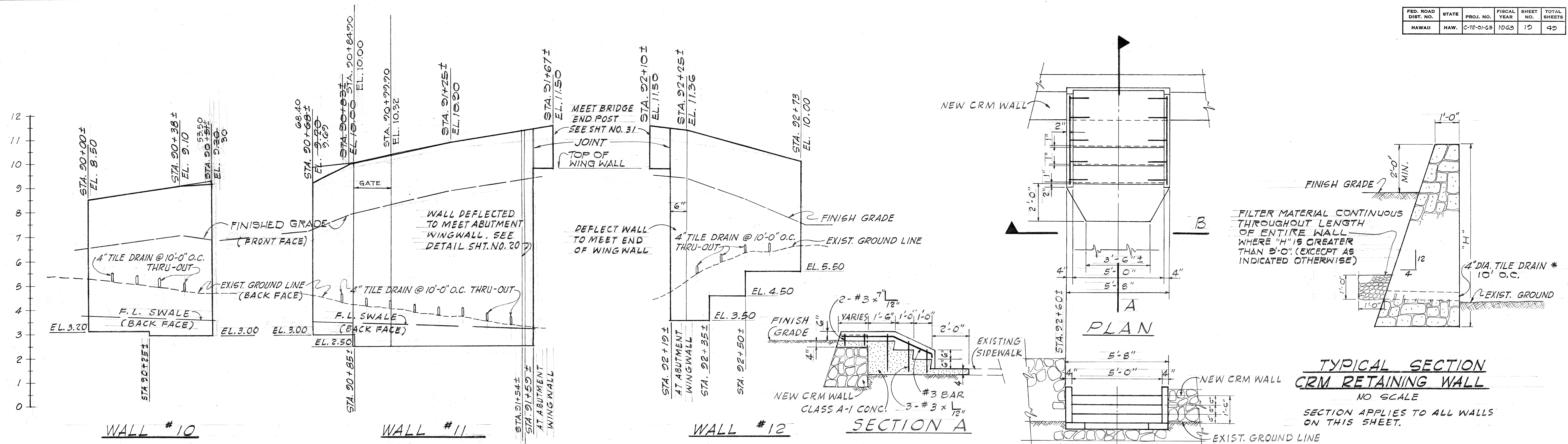
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KALANIANA'OLE HIGHWAY WIDENING
CRM RETAINING WALLS
#5 THRU #9, #5A THRU #8A
#6B & 7B
PROJECT NO. C72-01-G3
SHEET No. 18 OF 40 SHEETS

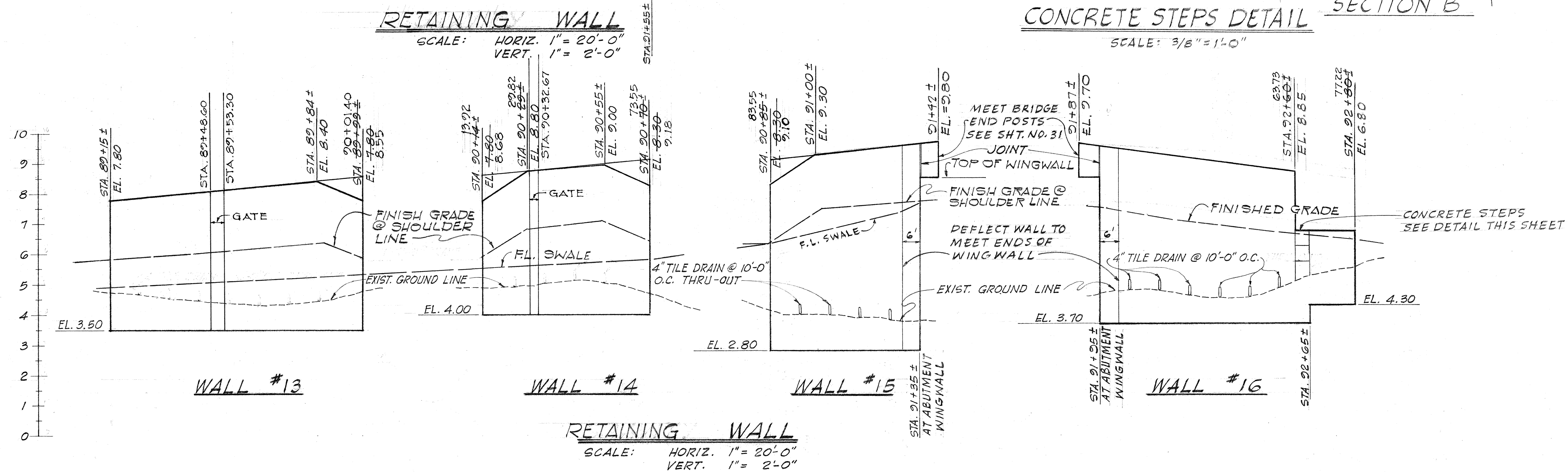
CHARLES YOO
REGISTERED PROFESSIONAL ENGINEER
No. 1037
HAWAII, U.S.A.

HWEI-YANG HSIAO
REGISTERED PROFESSIONAL ENGINEER
No. 1402
HAWAII, U.S.A.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	C-72-01-63	1963	19	49



* 4" TILE DRAIN SHALL BE INSTALLED ONLY WHERE WALL HEIGHT IS 5'-0" OR MORE, UNLESS OTHERWISE INDICATED ON THE PLAN.



NOTES:

1. WALLS NO. 10 & 11 ARE PLACED WITH THEIR BACK FACE 5.0 FT. FROM THE R/W LINE. SEE SPECIAL SECTION 90100± TO 91160± ON SHEET NO. 3.
2. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SLEEVES FOR THE PASSAGE OF WATER SERVICE LATERALS THRU THE RETAINING WALL.

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KALANIANA'OLE HIGHWAY WIDENING
CRM RETAINING WALLS
NO. 10 TO NO. 16

PROJECT NO. C72-01-63
SHEET No. 12 OF 49 SHEETS