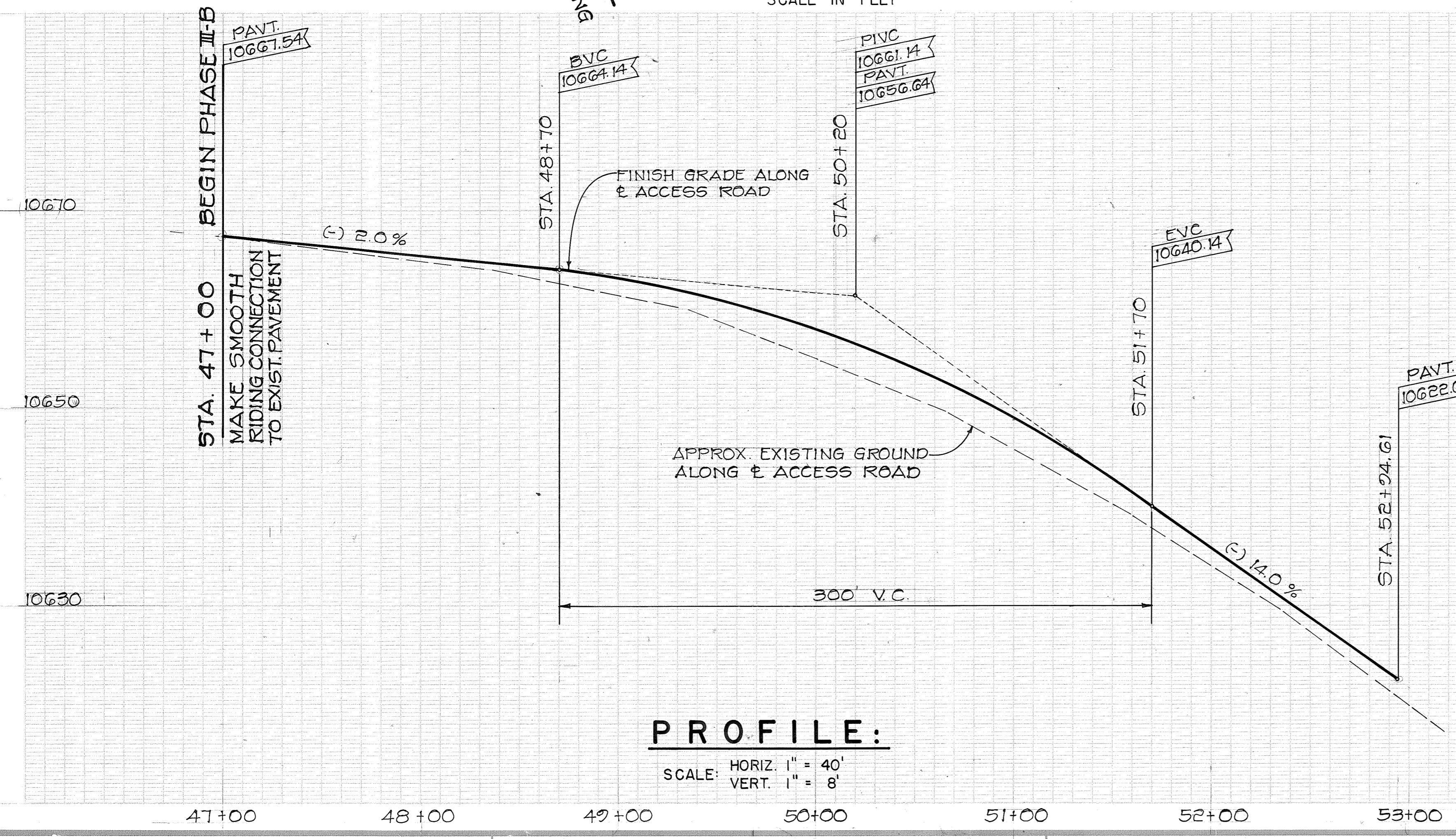
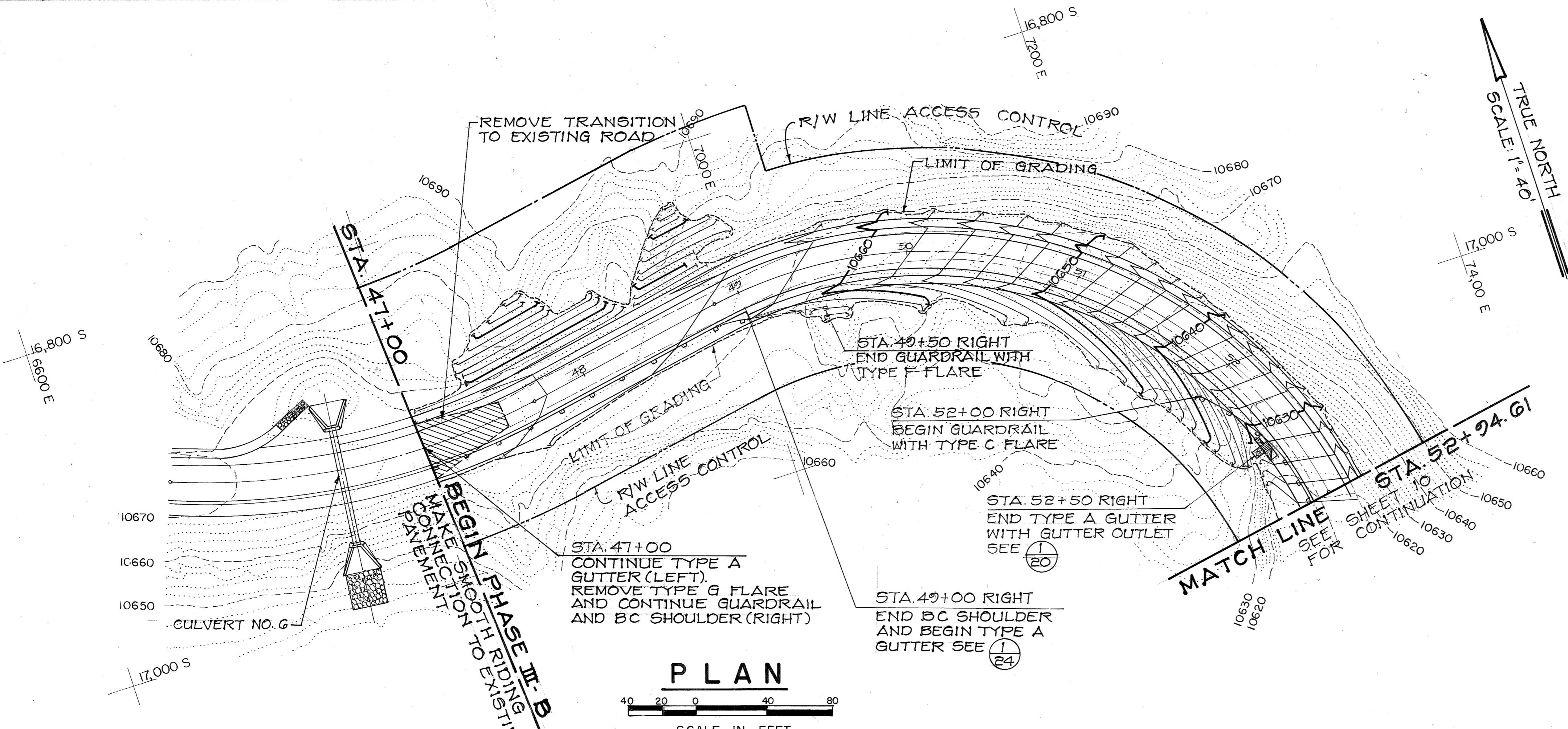


ED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			9	53



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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN, PROFILE AND GRADING

MAIN ACCESS ROAD

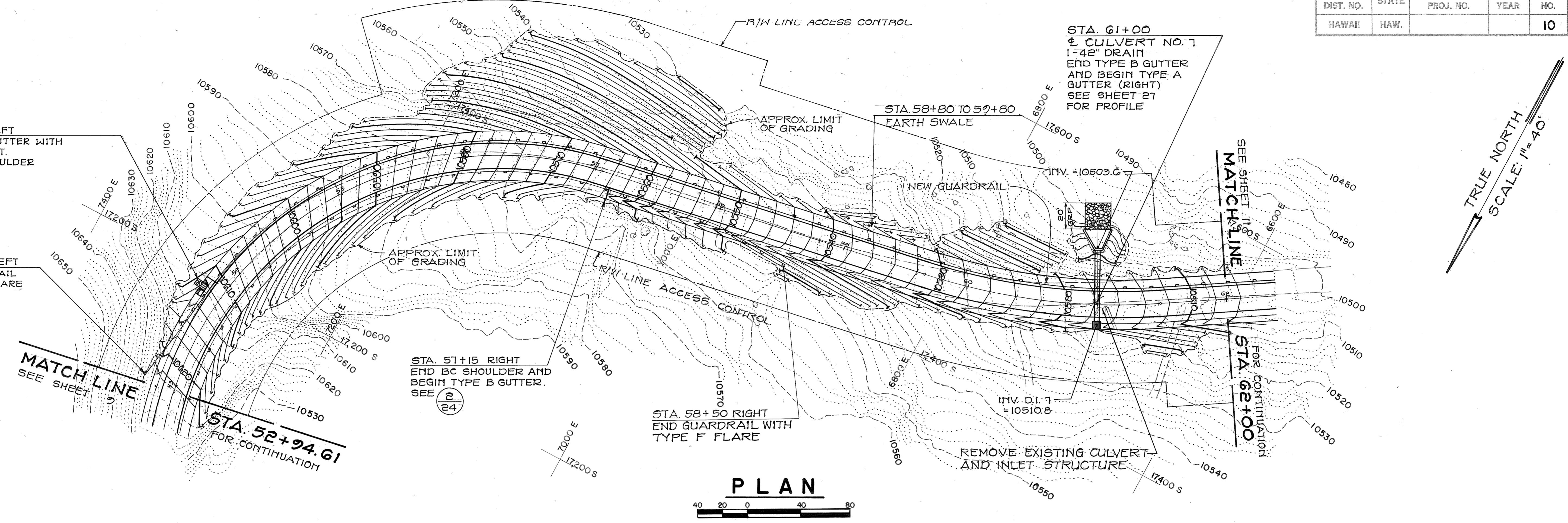
STA. 47 + 00 TO STA. 52 + 94.61

MAUNA KEA OBSERVATORY ACCESS ROAD

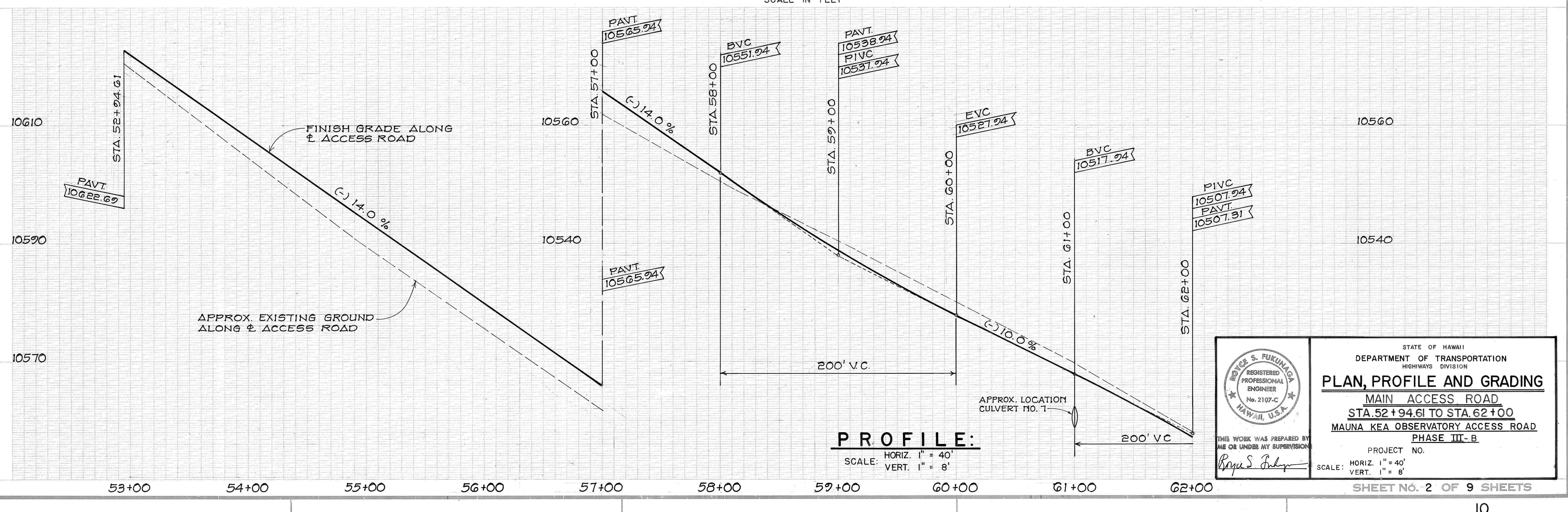
PHASE III - B

SHEET No. 1 OF 9 SHEETS

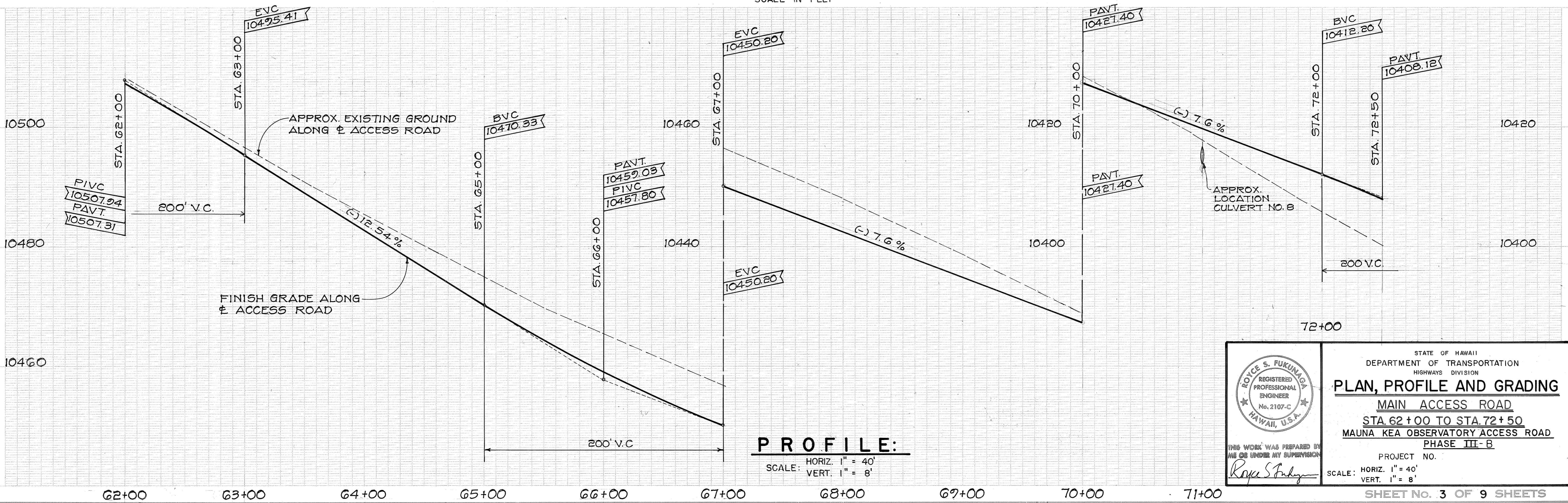
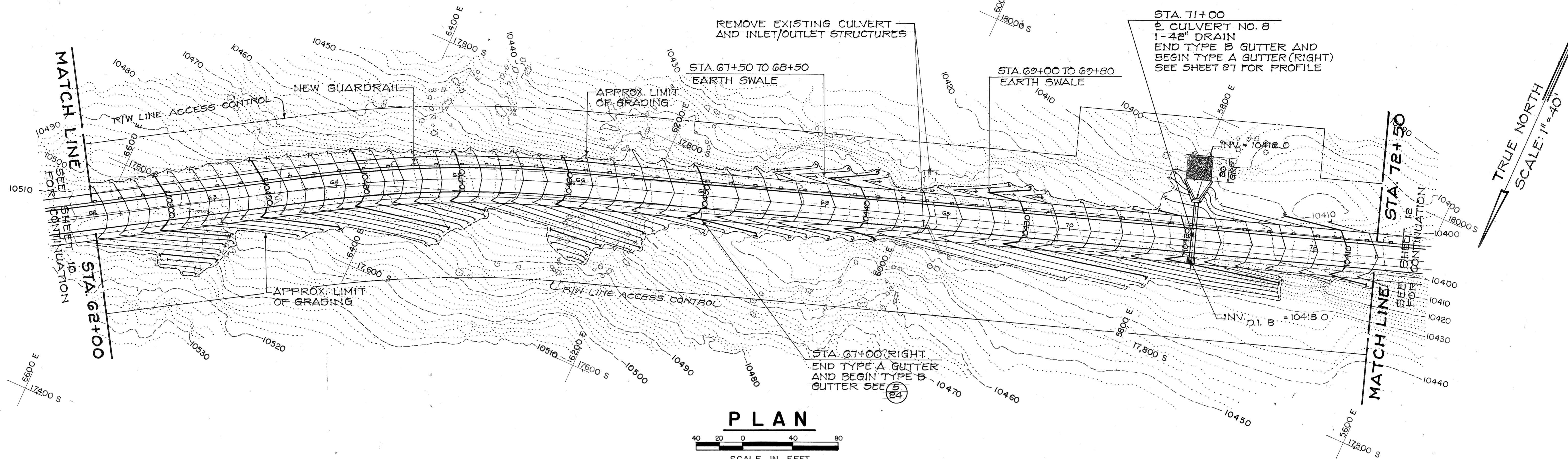
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			10	53



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

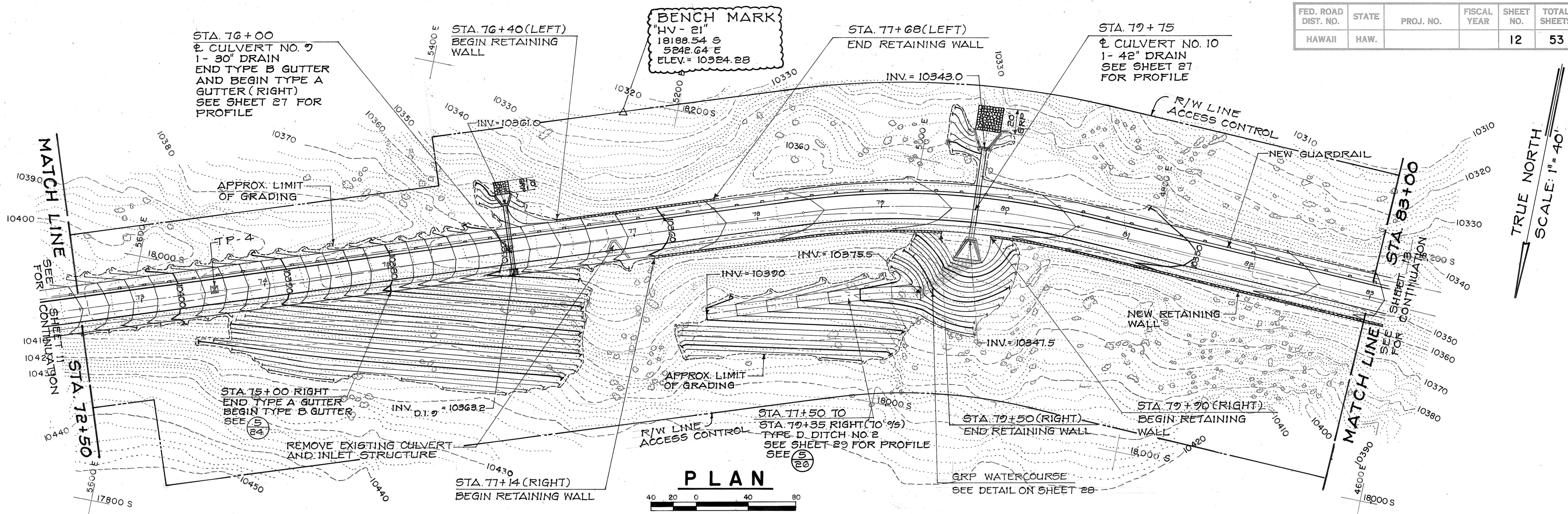


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			II	53

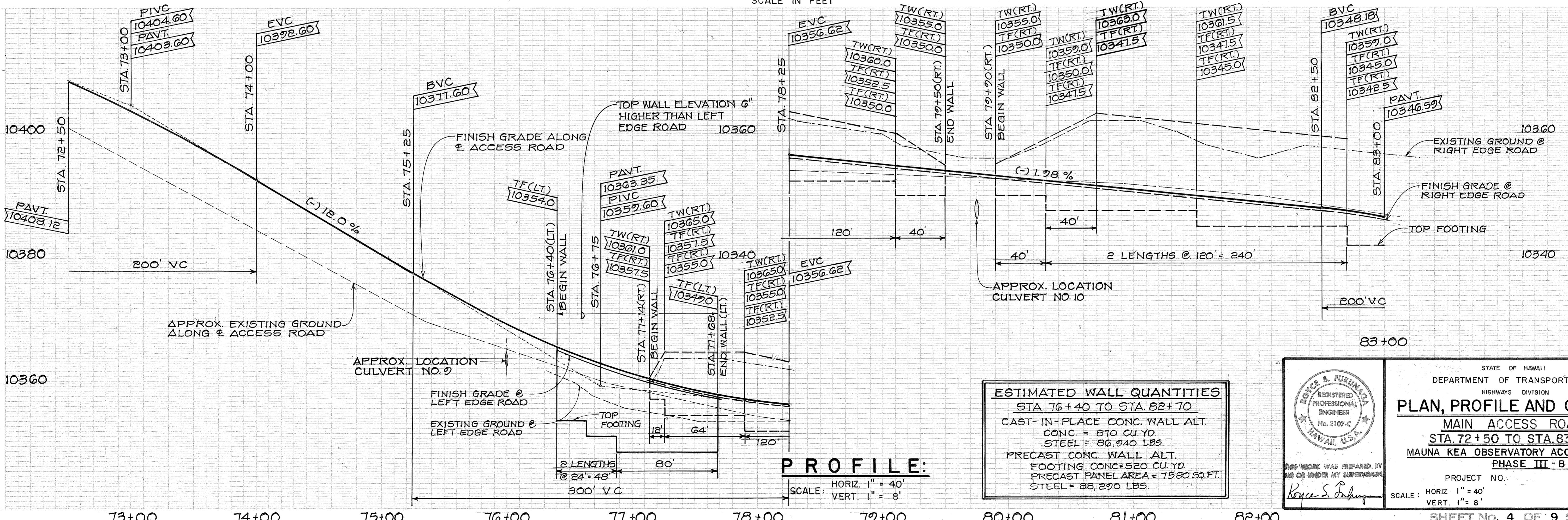


ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DR. W. M. NY	
NOTE BOOK	DESIGNED BY	
NO.	QUANTITIES BY	
	CHECKED BY	

ED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			12	53



PLAN



ESTIMATED WALL QUANTITIES

STA. 76+40 TO STA. 82+70

CAST-IN-PLACE CONC. WALL ALT.

CONC. = 810 CU.YD.

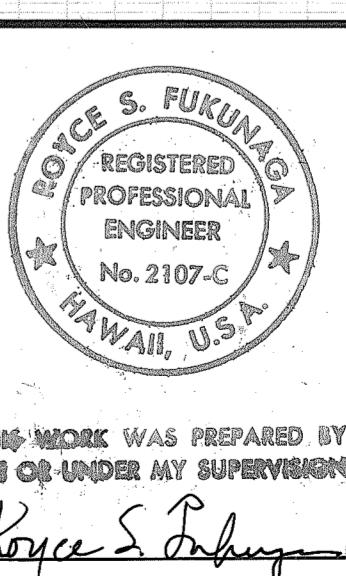
STEEL = 86,940 LBS.

PRECAST CONC. WALL ALT.

FOOTING CONC=520 CU. YD.

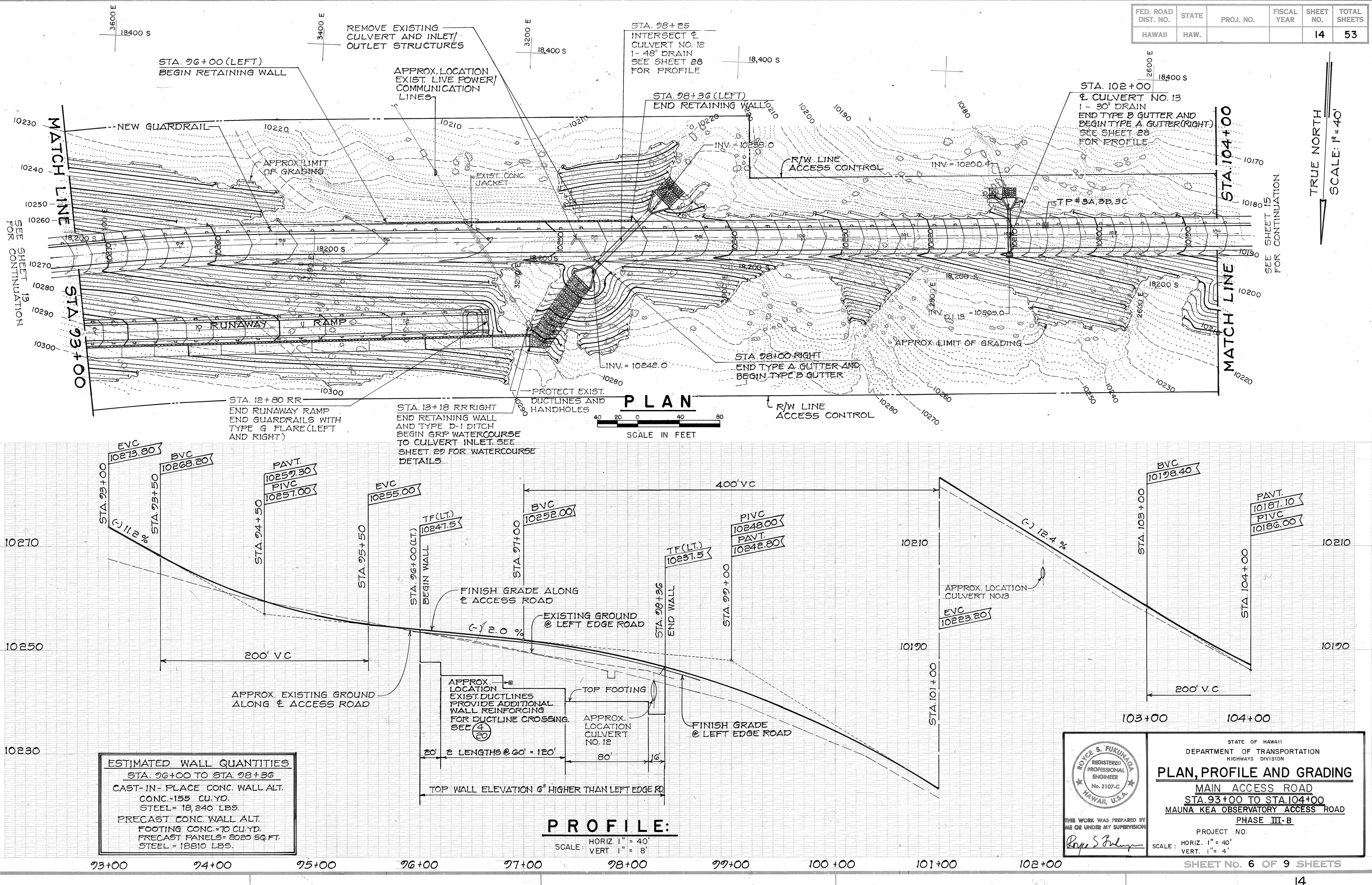
PRECAST PANEL AREA = 7580 SQ.FT.

STEEL = 88,290 LBS.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN, PROFILE AND GRADING
MAIN ACCESS ROAD
STA. 72 + 50 TO STA. 83 + 00
MAUNA KEA OBSERVATORY ACCESS ROAD
PHASE III - B
PROJECT NO.
CALE : HORIZ 1" = 40'
 VERT 1" = 8'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			14	53



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.			15	53

2600E
18400SREMOVE EXISTING
CULVERT AND INLET/
OUTLET STRUCTURES

10160

10170

10180

10190

10200

10210

10220

10150

10140

10130

10120

10110

10100

10090

10080

10070

10060

10050

10040

10030

10020

10010

10000

18400S

2400E

18400S

2200E

18400S

2000E

18400S

18600S

18600S

1600E

18600S

1600E

18600S

SEE SHEET 14
FOR CONTINUATION
STA. 104+00

NEW GUARDRAIL

R/W LINE ACCESS CONTROL

APPROX. LIMIT
OF GRADINGAPPROX. LIMIT
OF GRADING

ARROW

