

PLAN	SURVEYED	BY	DATE
PLOTTED			
CHECKED			
NO. OF DAYS			
NO.			

PROFILE	SURVEYED	BY	DATE
PLOTTED			
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NO. OF DAYS			
NO.			

PIPE CULVERT SUMMARY

Sta.	Size/Type	Length
15+10	72"x44" CMP, 10 Gage	98.84
10+54	48" CMP, 10 Gage of 48" RCP, Cl. IV	165.40
10+77	60" CMP, 10 Gage of 60" RCP, Cl. IV	168.5
17+75	70"x40" CMP, 8 Gage	219.80
20+30	30" CMP, 12 Gage of 30" RCP, Cl. III	87
30+50	43"x27" CMP, 10 Gage	73
40+75	54" CMP, 10 Gage of 54" RCP, Cl. III	61
51+00	42" CMP, 10 Gage of 42" RCP, Cl. III	70
60+50	43"x27" CMP, 10 Gage	54
60+75	24" CMP, 12 Gage of 24" RCP, Cl. III	53
64+50	42" CMP, 10 Gage of 42" RCP, Cl. III	58
75+00	42" CMP, 10 Gage of 42" RCP, Cl. IV	61
76+00 (45% LT.)	24" CMP, 10 Gage of 24" RCP, Cl. III	40
83+50	43"x27" CMP, 10 Gage	54
94+50	30" CMP, 12 Gage of 30" RCP, Cl. IV	93
95+00	30" CMP, 12 Gage of 30" RCP, Cl. IV	70
101+50	43"x27", 10 Gage	70
83+50	24" CMP, 12 GAGE	63.70

Sta. 7+00 to Sta. 10+00
 Existing Roadway
 Scarify Remove, and grade
 existing roadway section to new
 base coarse grade
 Est. Quantities
 Exc. = 333 C.Y.
 Asphalt Conc. Mix IV = 755 Tons
 Open Graded Mix = 108 Tons
 Aggregate Base = 331 C.Y.
 Aggregate Subbase = 222 C.Y.

Sta. 7+00 Rt. Double D.W. 20'
 Construct smooth & easy riding
 connection to existing driveway.

GENERAL NOTE:

ALL AZIMUTHS AND COORDINATES
 ARE REFERRED TO PAHOA Δ

Sta. 11+05 Lt.
 Construct smooth
 easy riding connection
 to existing driveway.

Sta. 14+50 Lt.
 Construct Driveway
 End Guardrails with
 Type "G" Flares

Sta. 11+24 Rt.
 Construct smooth & easy
 riding connection to
 existing driveway.

PLAN

Scale: 1" = 50'

Sta. 14+78 Install 115 L.F. of
 service lateral and
 relocate existing water
 meter.

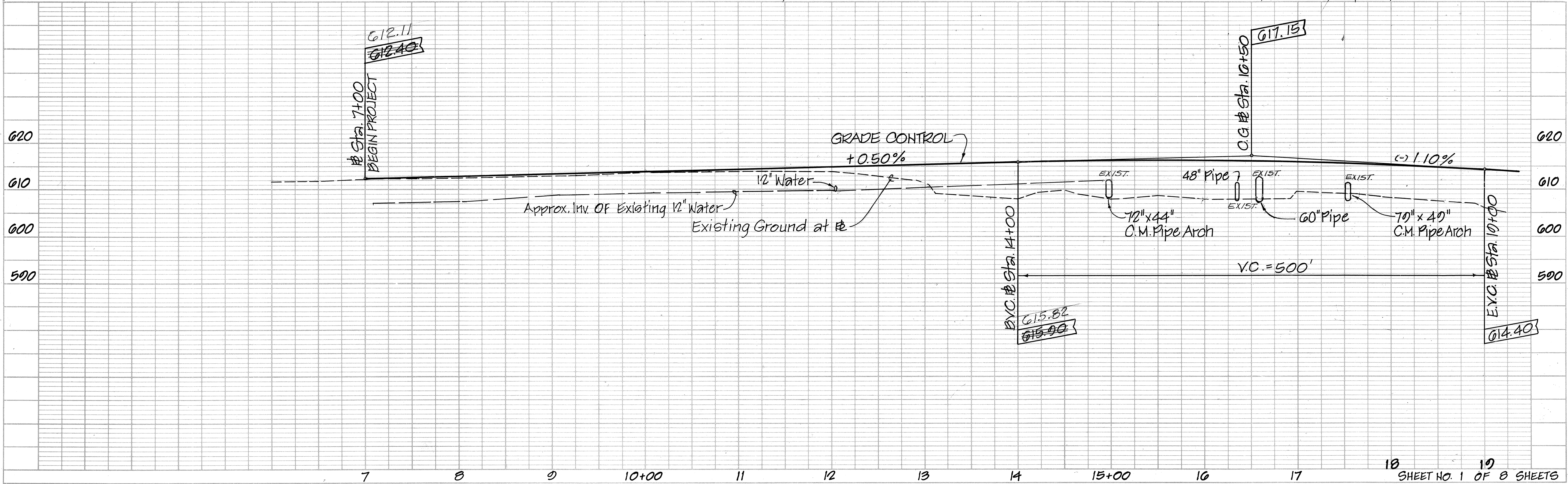
CURVE DATA

Δ = 41° 43' 00"
 R = 1300.00
 T = 405.34
 C = 025.75
 LC = 240.52

BENCH MARK
 USGS BRASS DISC 81YY
 ELEV. = 610.87

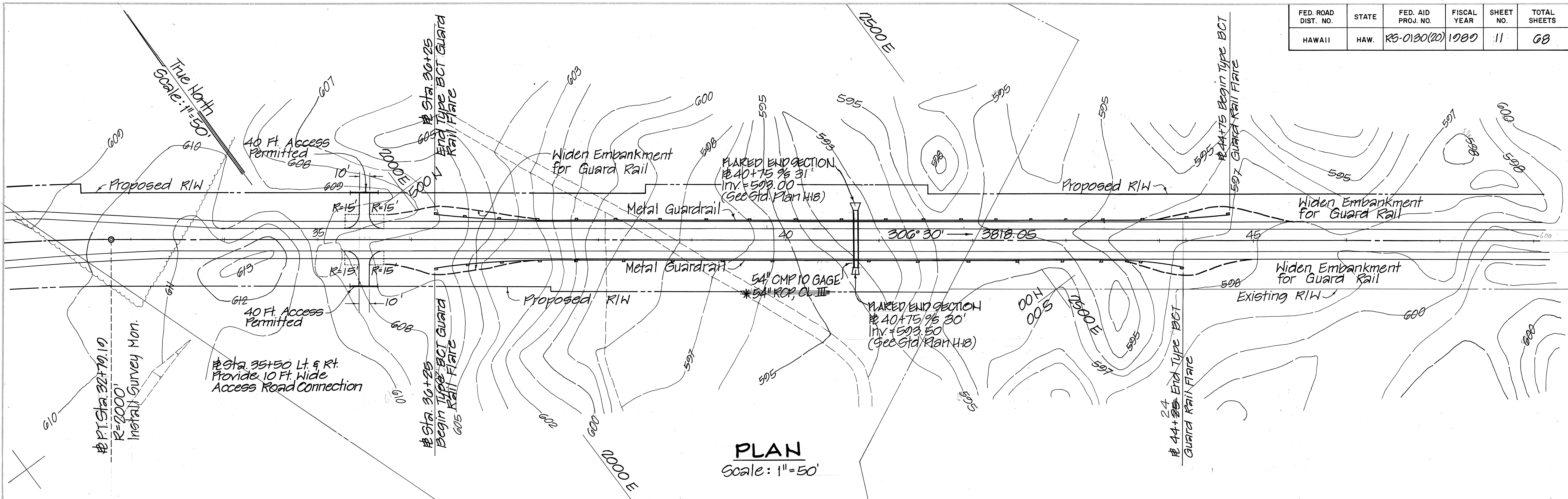
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1989	9	68

DATE	REVISION
5/23/89	Revised 24" CMP Gage thickness



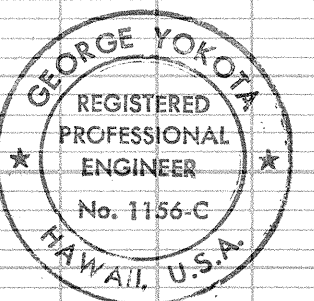
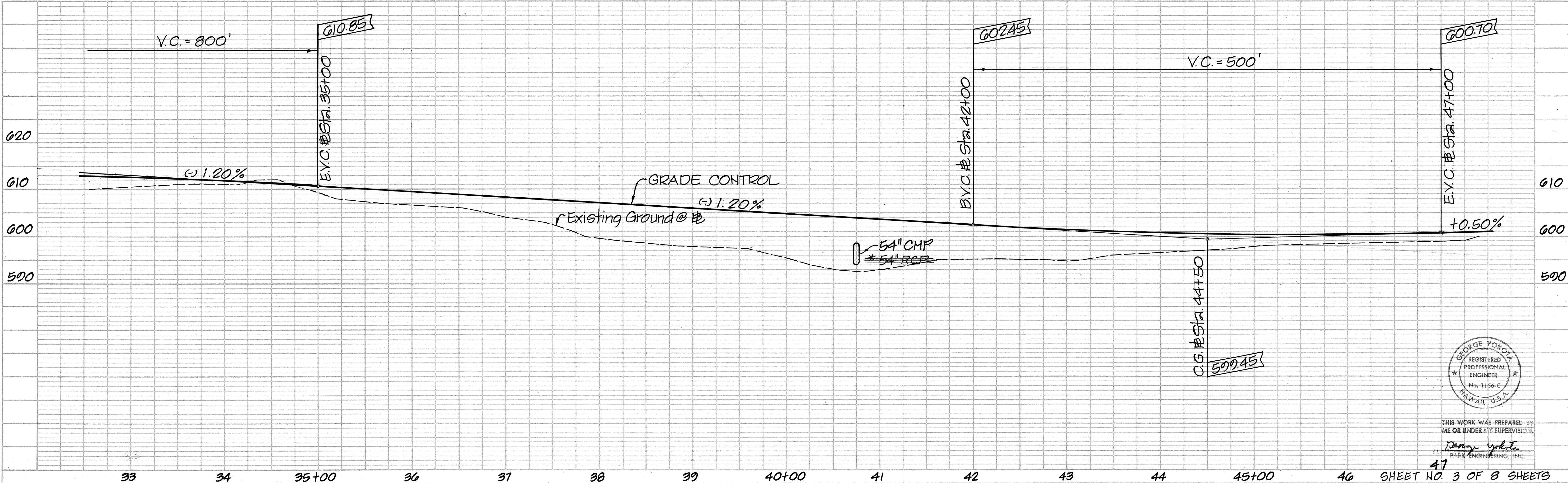
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	K5-0130(20)	1980	11	68

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NO.		



PLAN
Scale: 1"=50'

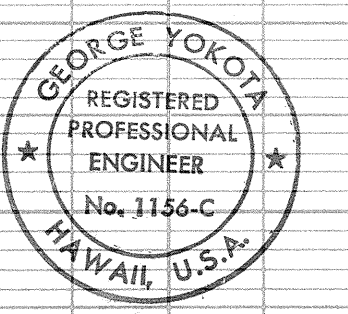
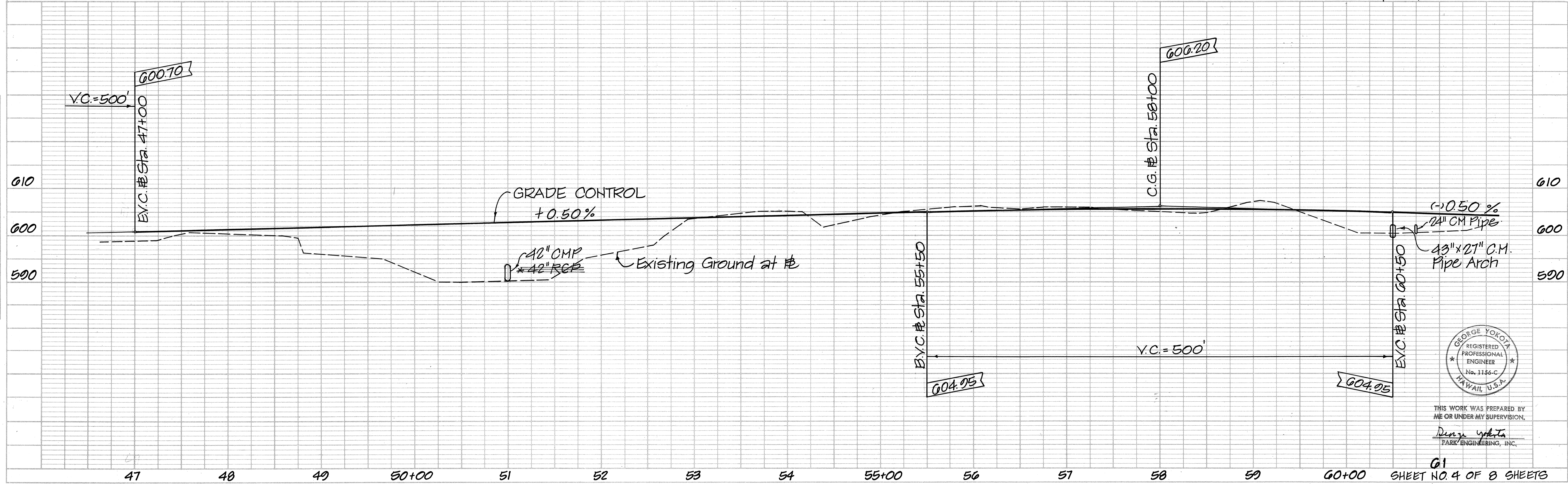
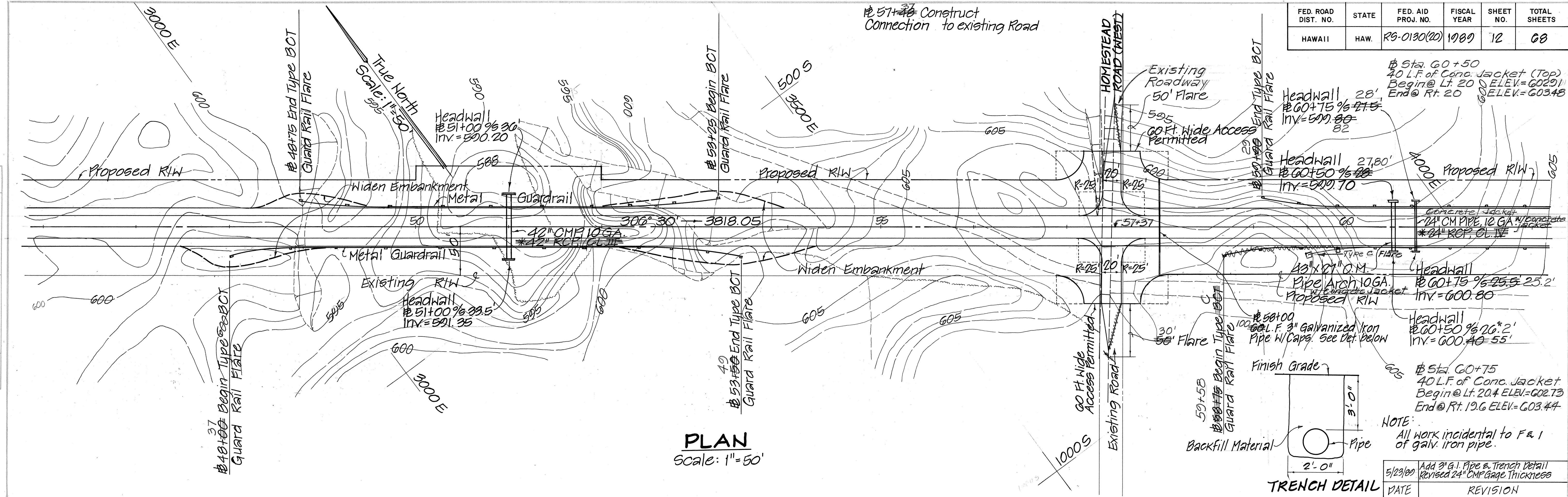
PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
GRADES CHECKED		
STRUCTURE NOTATION'S CHKD.		
NO.		



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
George Yokota
PARK ENGINEERING, INC.

PLAN	SURVEYED	BY	DATE
PLANNED	PLANNED		
NOTED	NOTED		
NO.	NO.		

PROFILE	SURVEYED	BY	DATE
PLANNED	PLANNED		
NOTED	NOTED		
NO.	NO.		



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George Yokota
PARK ENGINEERING, INC.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1989	13	68

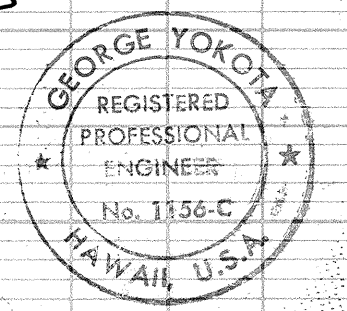
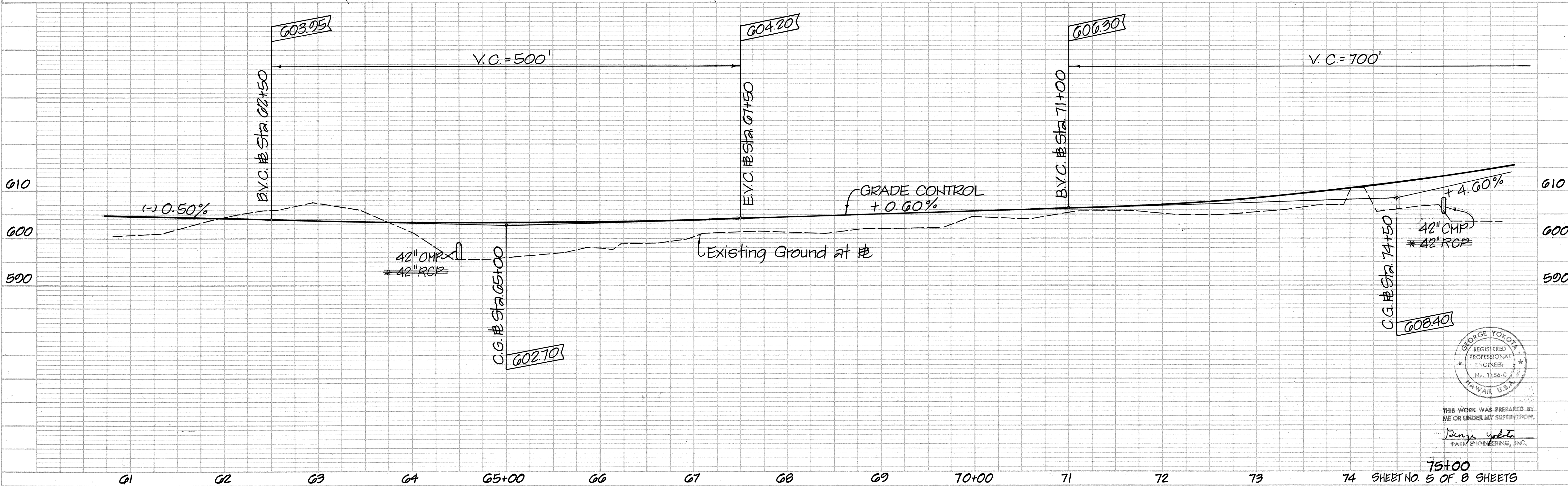
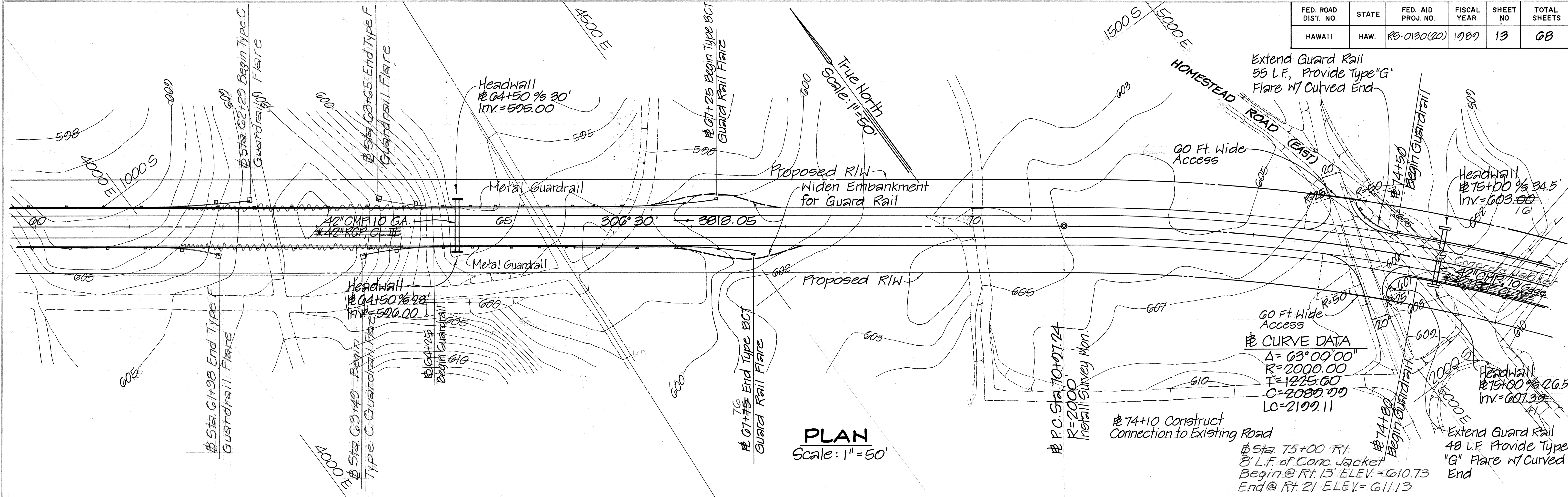
Extend Guard Rail
55 L.F. Provide Type "G"
Flare w/ Curved End

60 Ft. Wide Access
CURVE DATA
Δ = 63° 00' 00"
R = 2000.00
T = 1225.60
C = 2080.00
L = 2199.11

60 Ft. Wide Access
Sta. 75+00 Rt.
8' L.F. of Conc. Jacket
Begin @ Rt. 13' ELEV. = 610.73
End @ Rt. 21' ELEV. = 611.13

Extend Guard Rail
48 L.F. Provide Type
"G" Flare w/ Curved
End

PLAN
Scale: 1" = 50'

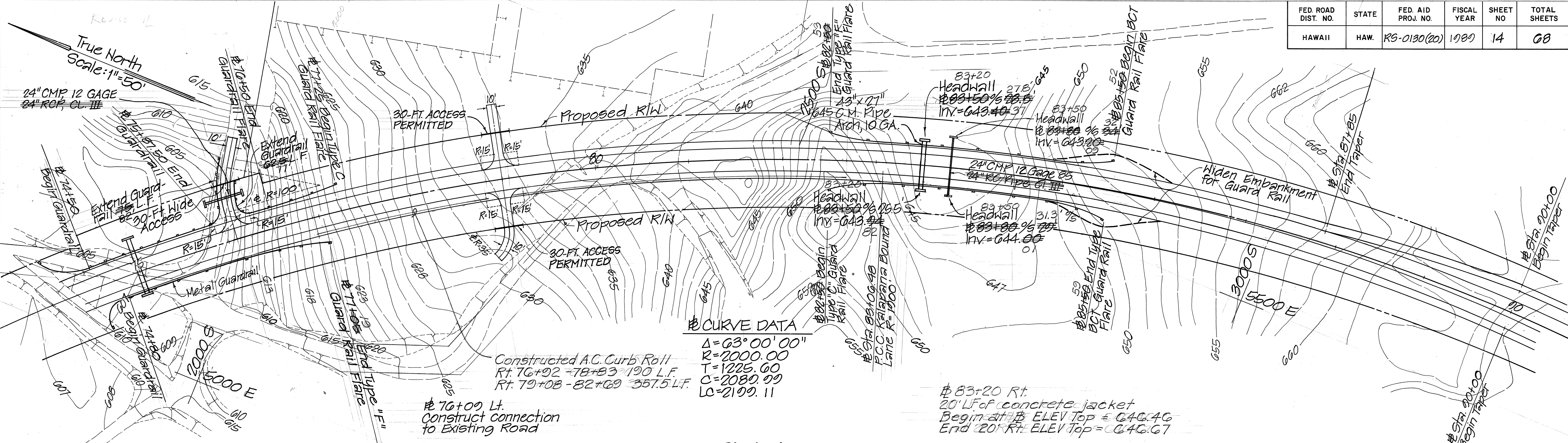


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George Yokoyama
PARK ENGINEERING, INC.

75+00
SHEET NO. 5 OF 8 SHEETS

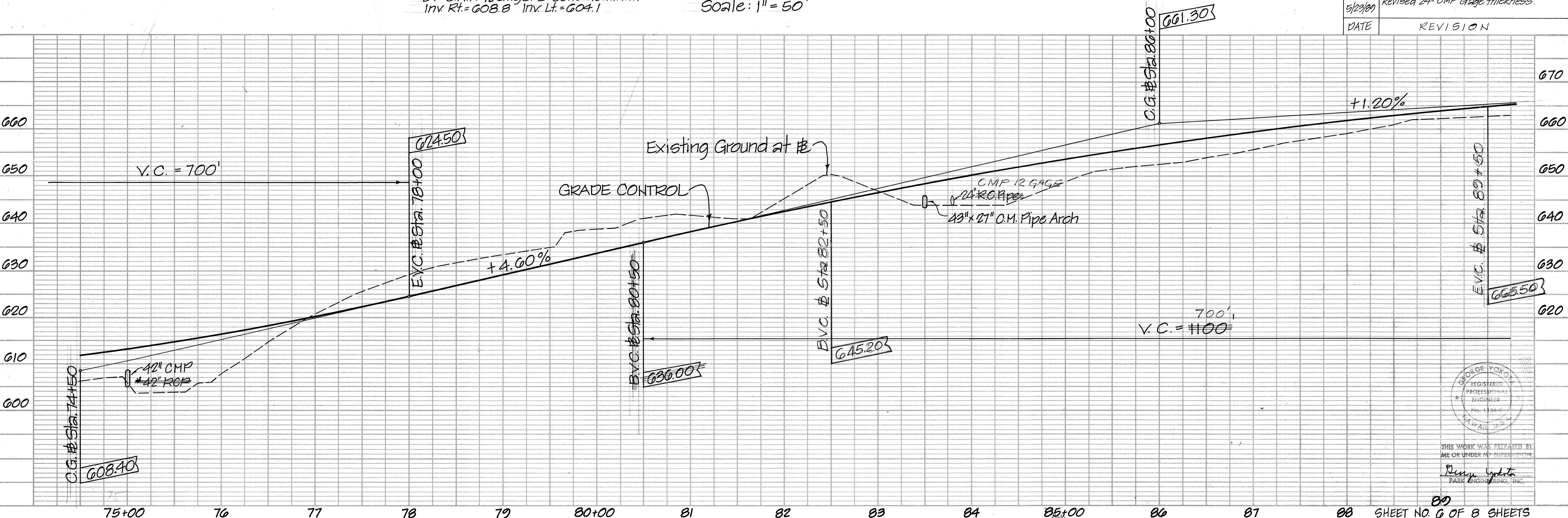
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	RS-0130(20)	1989	14	68

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
RT. OF WAY CHECKED		
NO.		

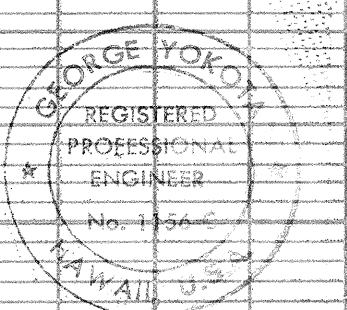


PLAN
Scale: 1" = 50'

PROFILE	DATE	BY
SURVEYED		
NOTE BOOK		
STRUCTURE NOTATION CHFD		
NO.		



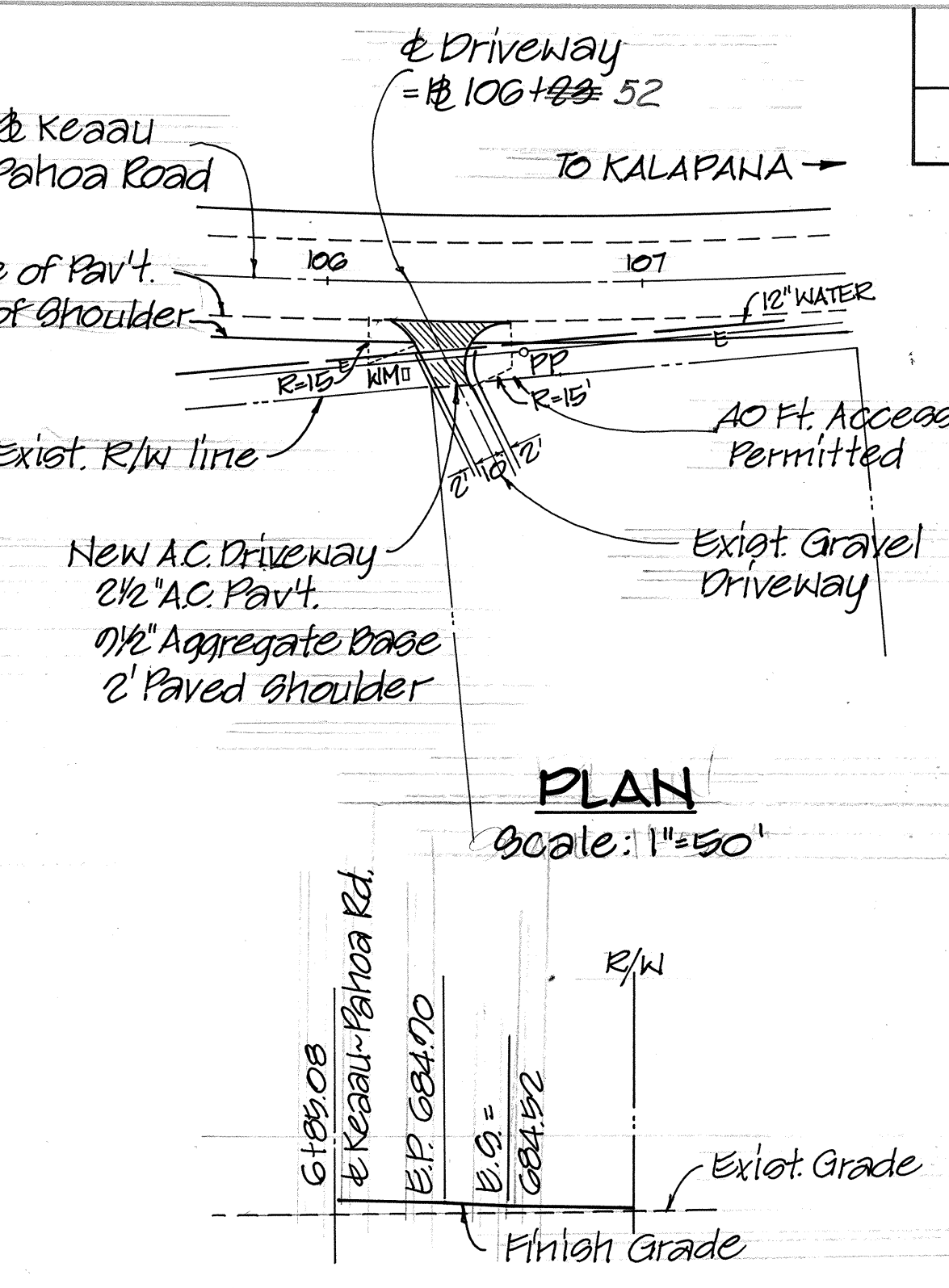
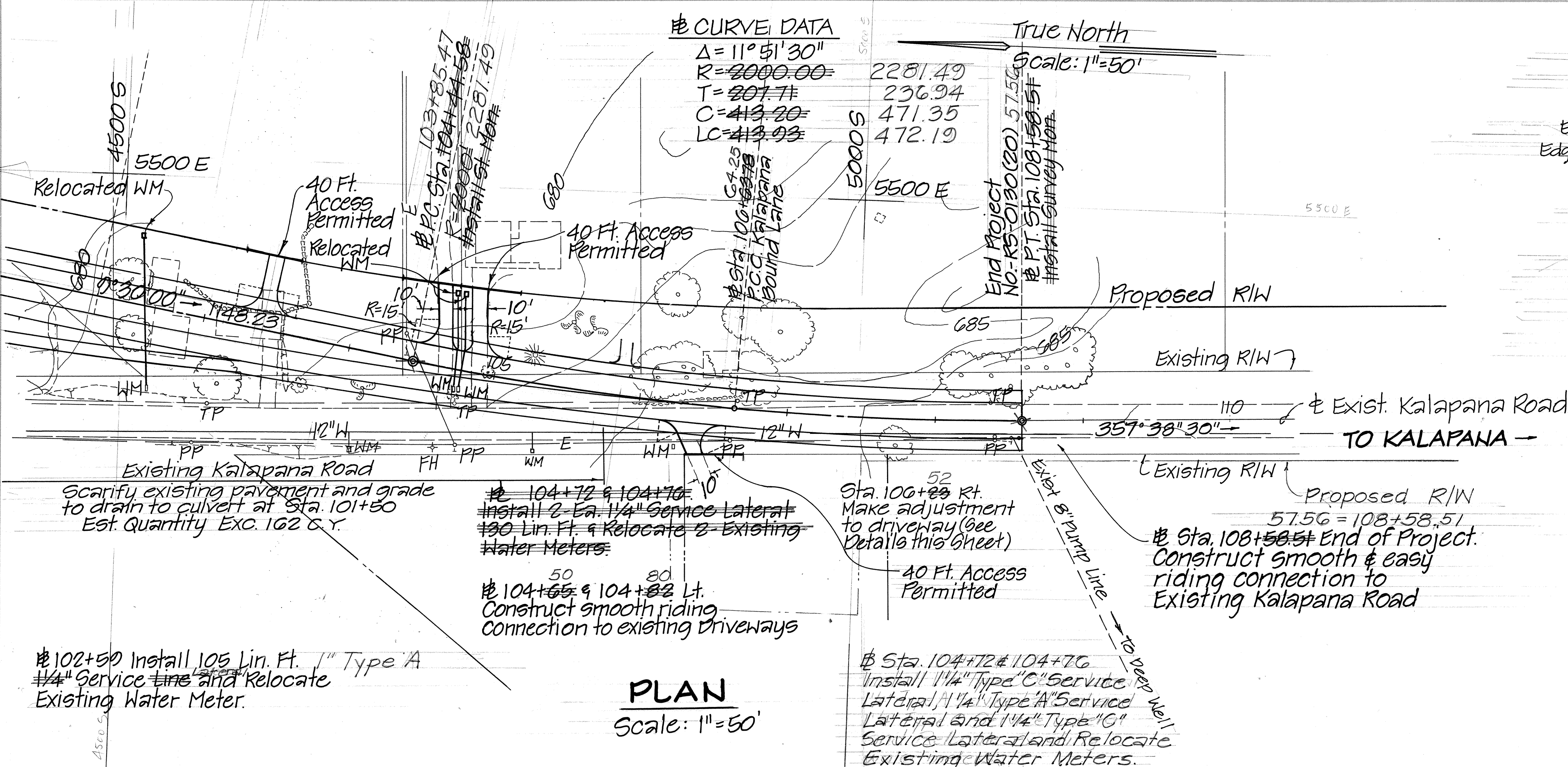
DATE	REVISION
5/23/89	Revised 24" CMP Gage thickness.



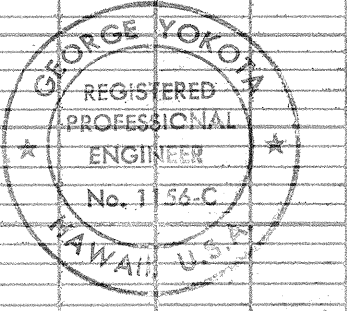
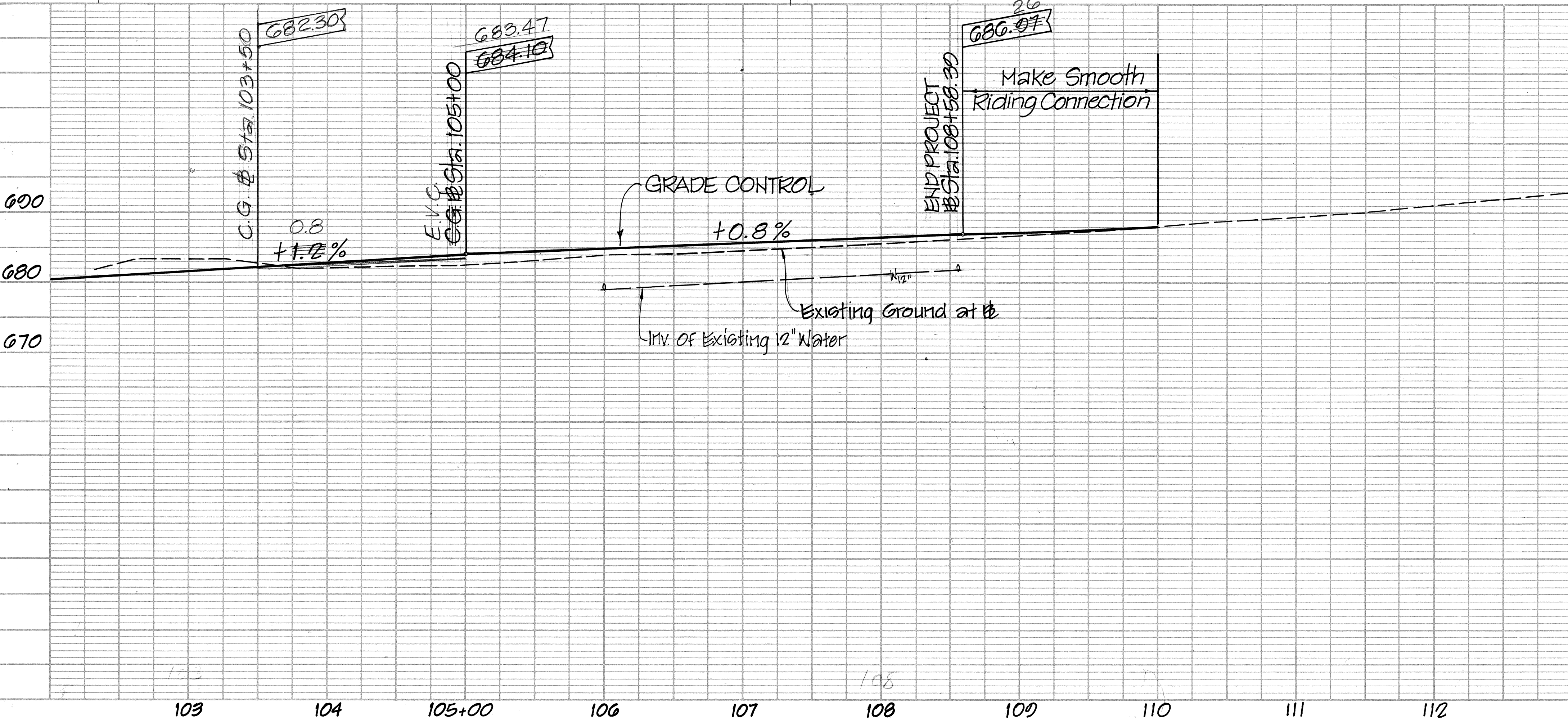
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Randy Lytle
PARR ENGINEERING, INC.

PLAN	DATE	BY
SURVEYED		
PLANNED		
NOTED		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLANNED		
NOTED		
NO.		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RG-0130(20)	1980	16	68



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 George Yokoyama
 PARK ENGINEERING, INC.