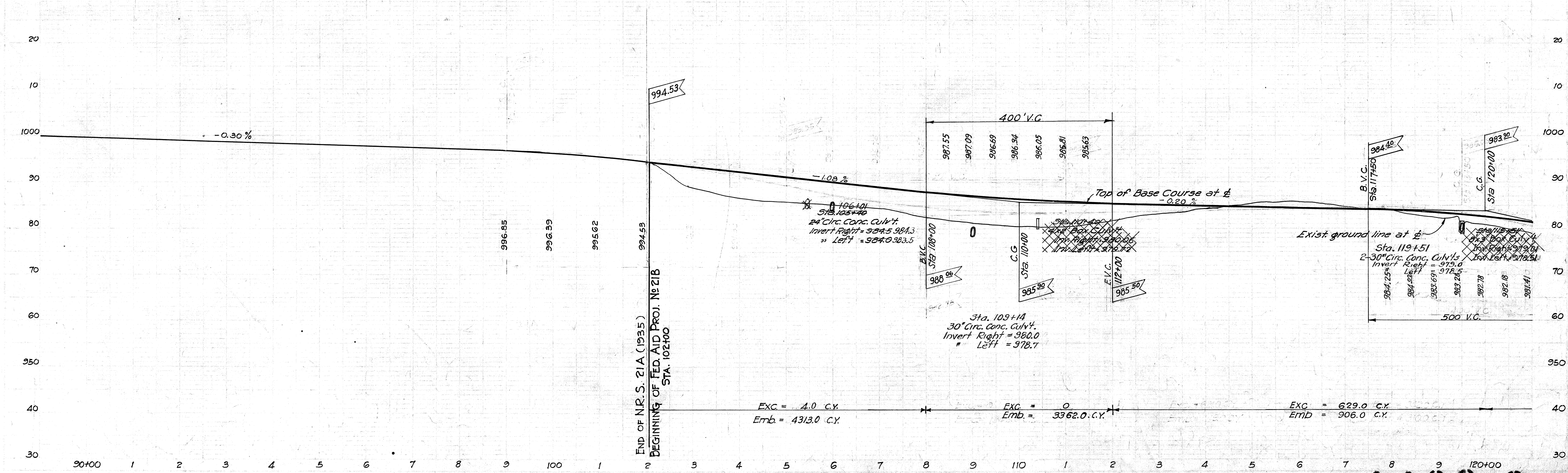
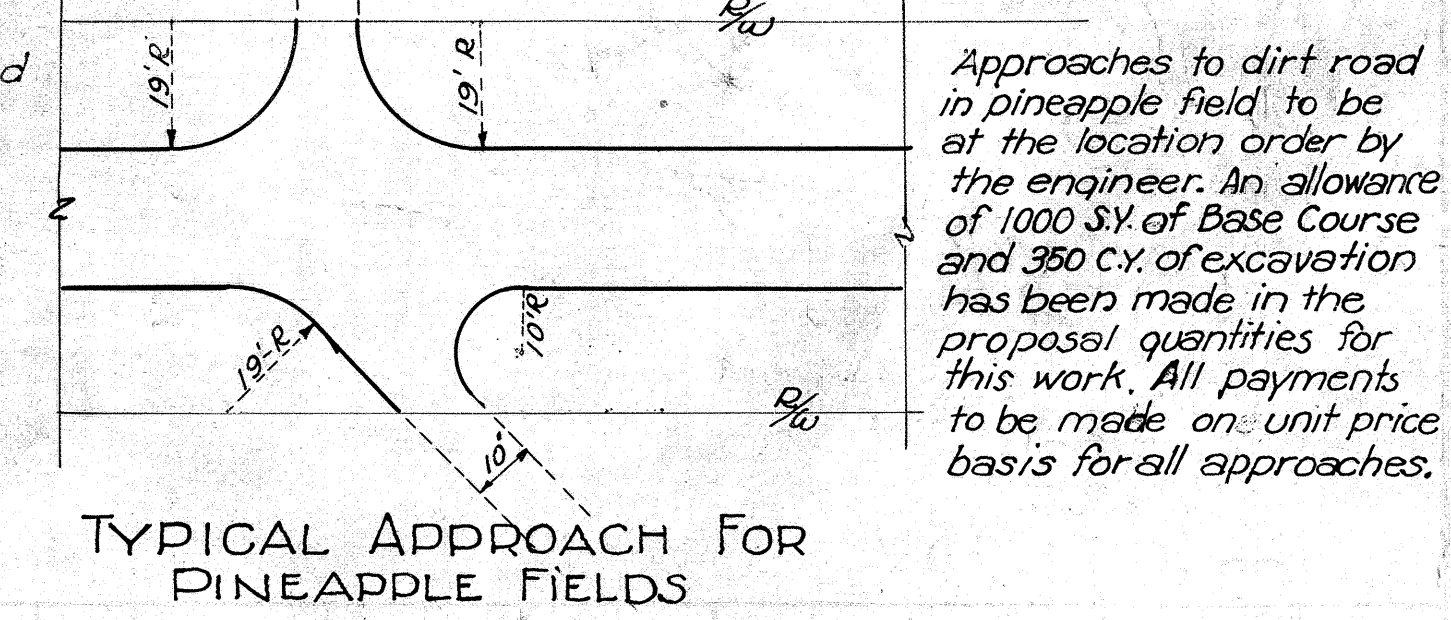
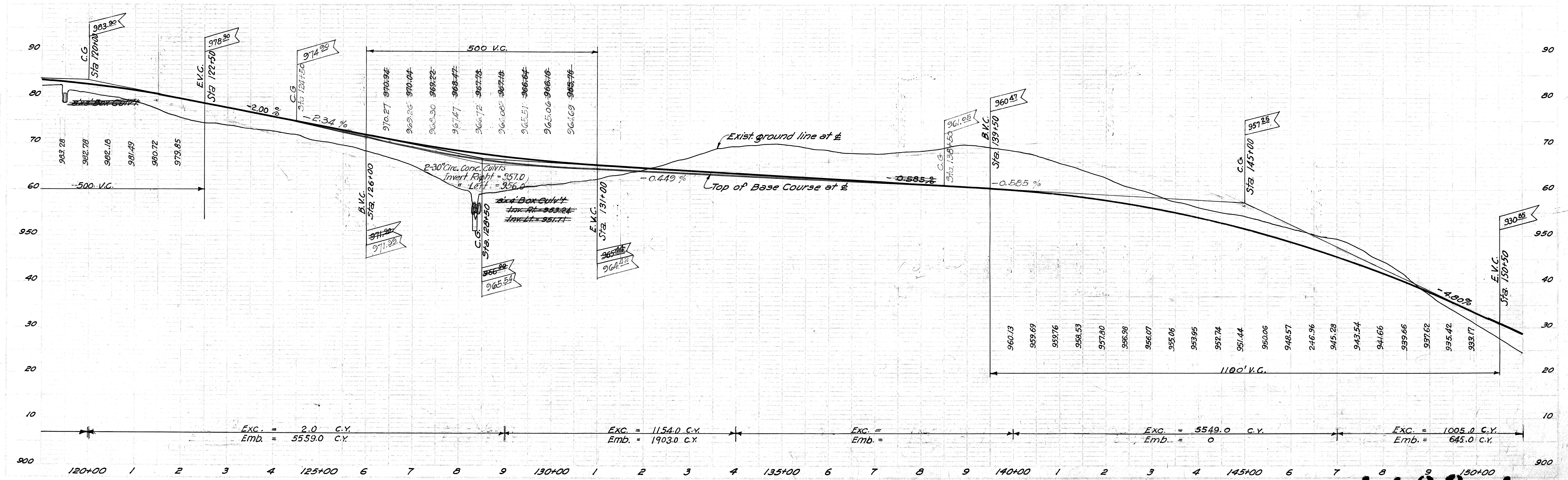
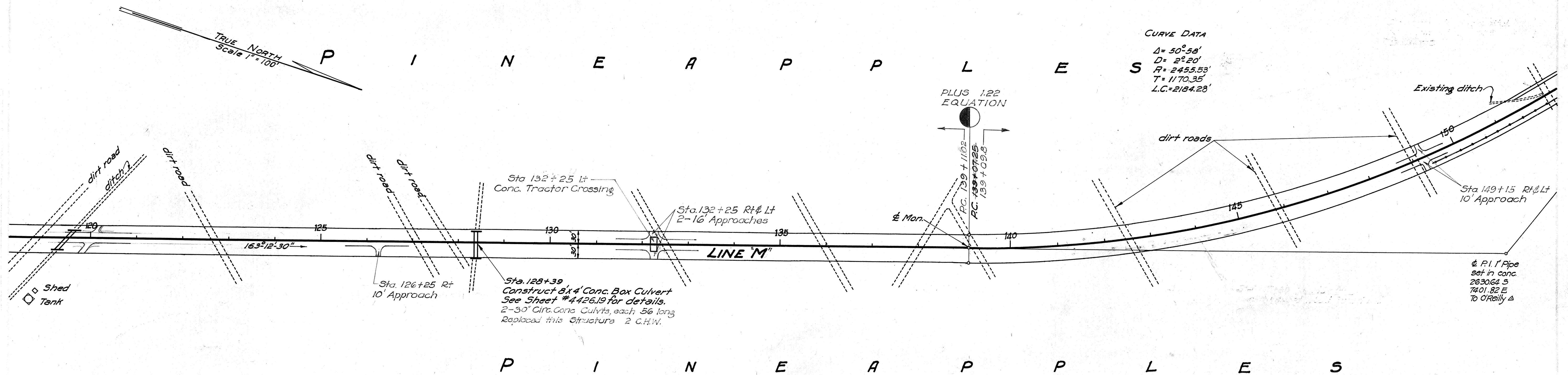


- ~ LIST OF COMMON ABBREVIATIONS ~
- | | | | |
|-------------|--|--------|---------------------|
| C.R.M. | Cement rubble masonry | C.H.W. | Concrete headwall |
| D.R.M. | Dry rubble masonry | M.H.W. | Masonry headwall |
| Conc. Culv. | Circular concrete culvert which is either | C.B. | Catch Basin |
| | (a) cast in place circular concrete culvert or | o.T.P. | Telephone Pole |
| | (b) concrete pipe culvert. | o.E.P. | Wood electric pole. |
| Box Culv. | Various reinf. conc. box culverts as detailed | L.T. | Large Tree |
| Metal Culv. | Corrugated galvanized metal pipe. | | |
| C.D.I. | Concrete drop intake | | |
| M.D.I. | Masonry drop intake | | |
| C.H.B. | Concrete head box. | | |
- Datum - Elevations U.S.G.S. Mean sea level = El. 0±0
Azimuths referred to O'Reilly Δ





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	21-8	1997	5	42

P I N E A P P L E S

CURVE DATA
 $\Delta = 50^\circ 58'$
 $D = 2^\circ 20'$
 $R = 2155.53$
 $T = 1170.35$
 $LC = 2184.28$

1964.02
 MINUS EQUATION 1966.57

Sta 181+67
 Construct 6x3' Conc. Box Culvert See Sheet # 4426.20 for details

Sta 181+88 Lt
 16' Approach

Sta 190+00 Lt
 10' Approach

Sta 191+50 Rt
 10' Approach

Sta 189+38
 Install 24" Circ. conc. culv't.
 44'-0" long
 Construct 2-C.H.W.

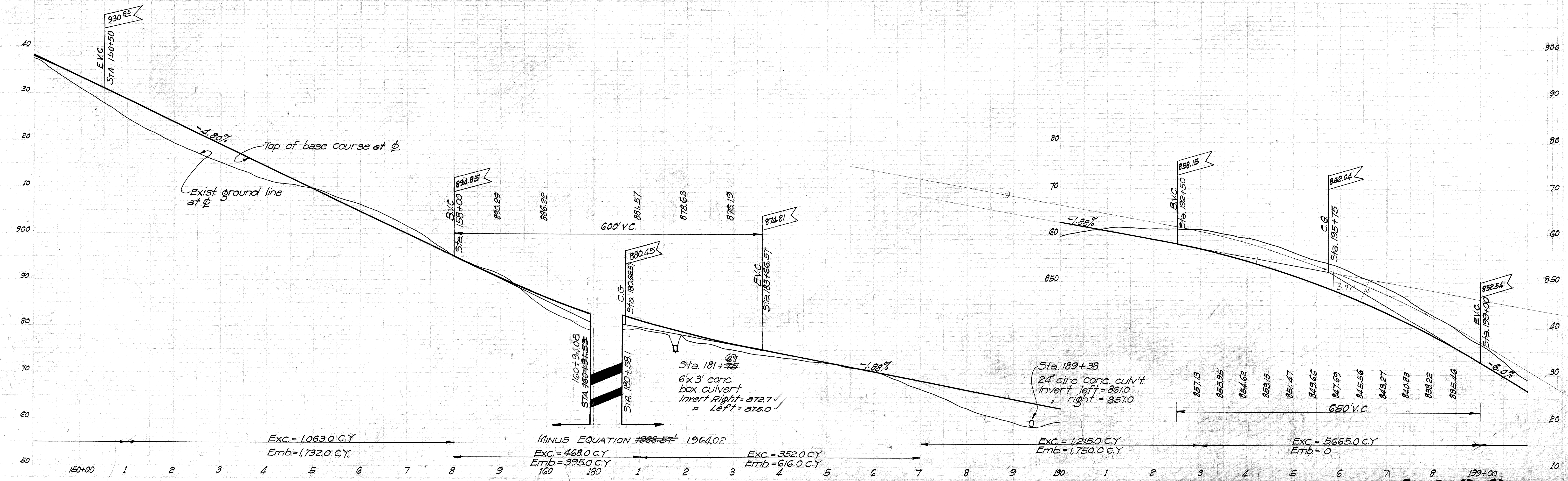
Sta 183+45 Rt
 10' Approach

Sta 159+95 Lt
 10' Approach

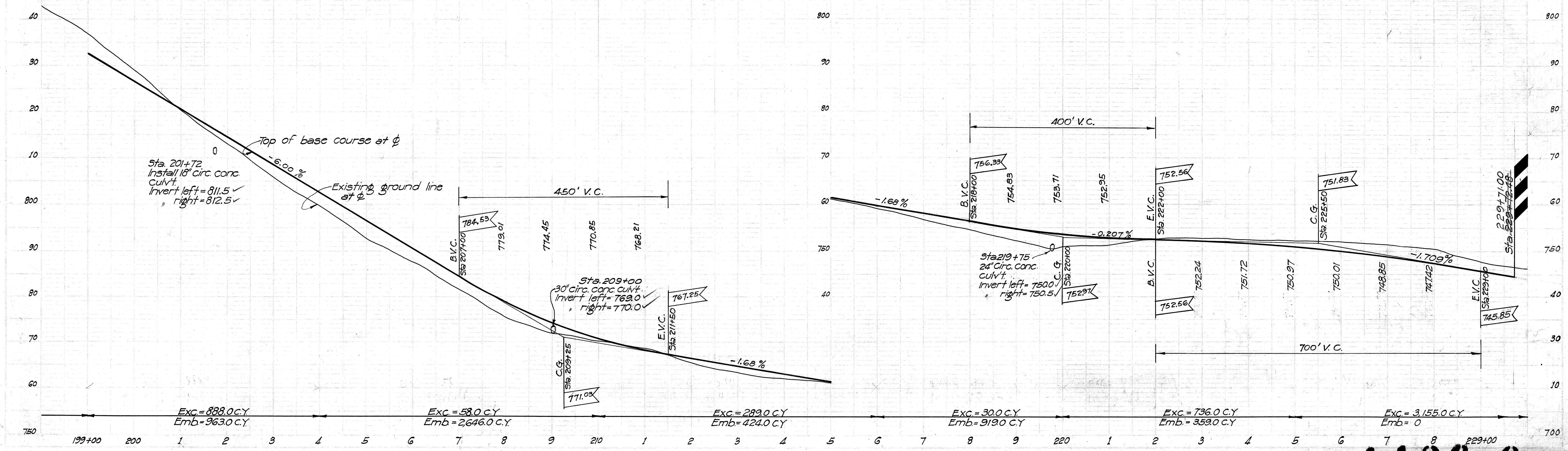
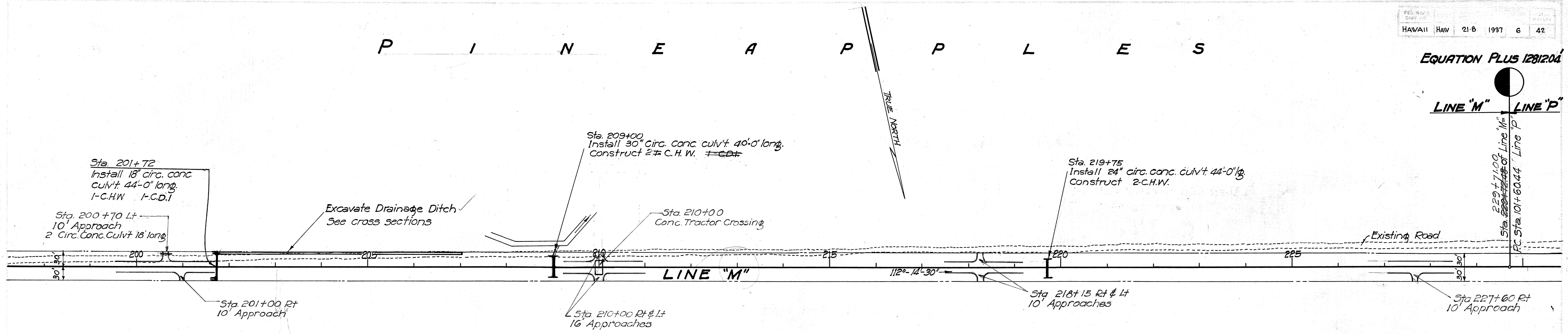
Sta 156+75 Rt
 18" Circ. Conc. Culv't 22' long 2-C.H.W.
 16' Approach

P I N E A P P L E S

Construct drainage ditch
 See Cross-sections
 Existing ditch
 149+20
 Sta 149+00 to Sta 155+00
 Std Wood Guard Rail



EQUATION PLUS 12812.04'



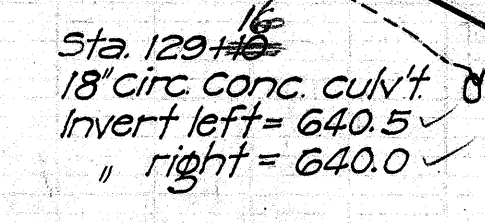
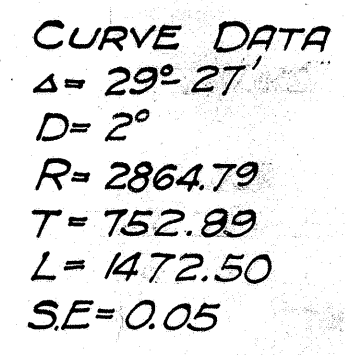
4426.6

P I N E A P P L E S

BM #10 "+" with hole in center West end of upstream headwall of ditch El. 709.75

C A N E

Ditch



4426.7

Highway Curve Data
 $\Delta = 30^{\circ} 06' 30''$
 $D = 2''$
 $R = 2864.79$
 $T = 770.52$
 $L = 1505.42$
 $SE = 0.05$

EQUATION
 PLUS 2.34 MINUS 0.50

IRRIGATED CANE LANDS

TRUE NORTH

Construct 8" conc. irrigation flume 800 lin. ft. req.

1" Pipe in Conc.

Maui Agriculture Co. R.R.

128+17 to 137+89
 Sta 128+00 to 136+00
 On right, construct std. wood guard rail.

PI 1" Pipe in conc. 1885.61 N 450.08 W Ref. to O'Reilly Δ

136+60
 Sta 137+00
 Construct 24" circ. conc. syphon 60'-0" lg. For details see Sheet #4426.16

Sta 138+00 Construct Ind. track crossing

Construct tractor crossing See details.

Construct 12" conc. irr. flume 1000 lin. ft. req.

147+06
 Sta 147+00 Install 18" circ. conc. siphon 44'-0" long, 2-C.H.W. For details see Sheet #4426.16

Sta 147+30 Construct Ind. track crossing

Construct tractor crossing See details

Construct 18" conc. irrigation flume 110 lin. ft. req.

Exist 16" Irrigation pipe 18'-0" lg. to be removed

Install 20" irrigation pipe 24'-0" lg.

Exist 16" irrigation pipe to be removed

Construct 18" conc. irrigation flume 400 lin. ft. req.

Exist 16" irrigation pipes to be removed. Each 16'-0" long

Sta 157+50 Construct Ind. track crossing

Construct tractor crossing. See details

Construct 10" conc. irr. flume 400'-0" req.

Exist 16" irrigation pipe 16'-0" long, to be removed.

Construct 12" conc. irrigation flume 1300 lin. ft. req.

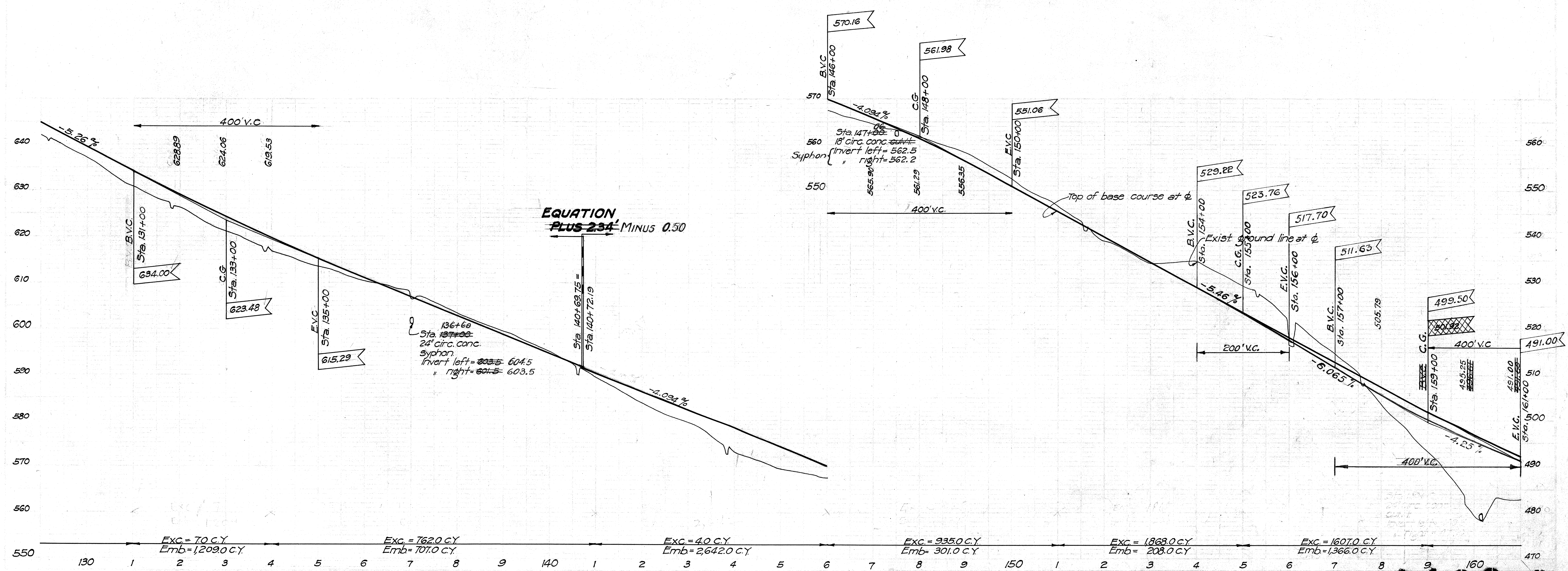
Relay 16" irrigation pipe 36'-0" long

Construct dirt approach 400 C.Y. Emb

Sta 157+60 to 162+00. Construct std. wooden guard rail. Right & Left.

IRRIGATED CANE LANDS

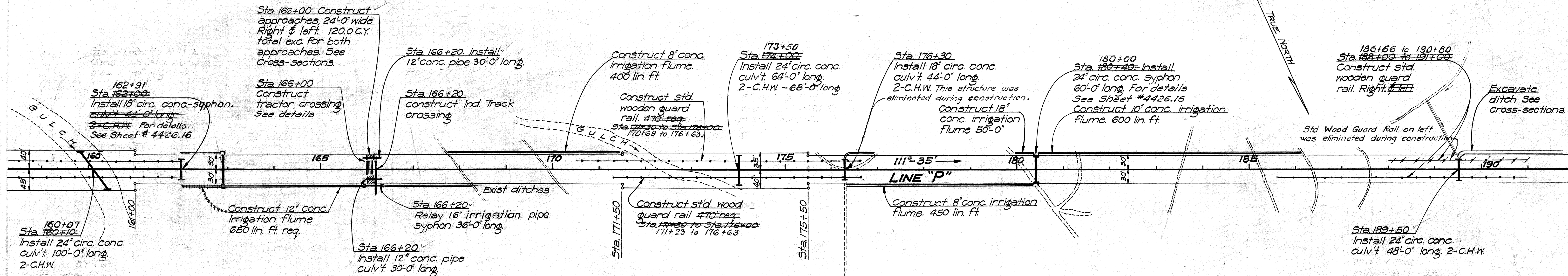
PROJ. ROAD DIST. (M)	STATE	FILE NO.	DATE	SHEET	TOTAL SHEETS
HAWAII	HAW	21-B	1997	8	42



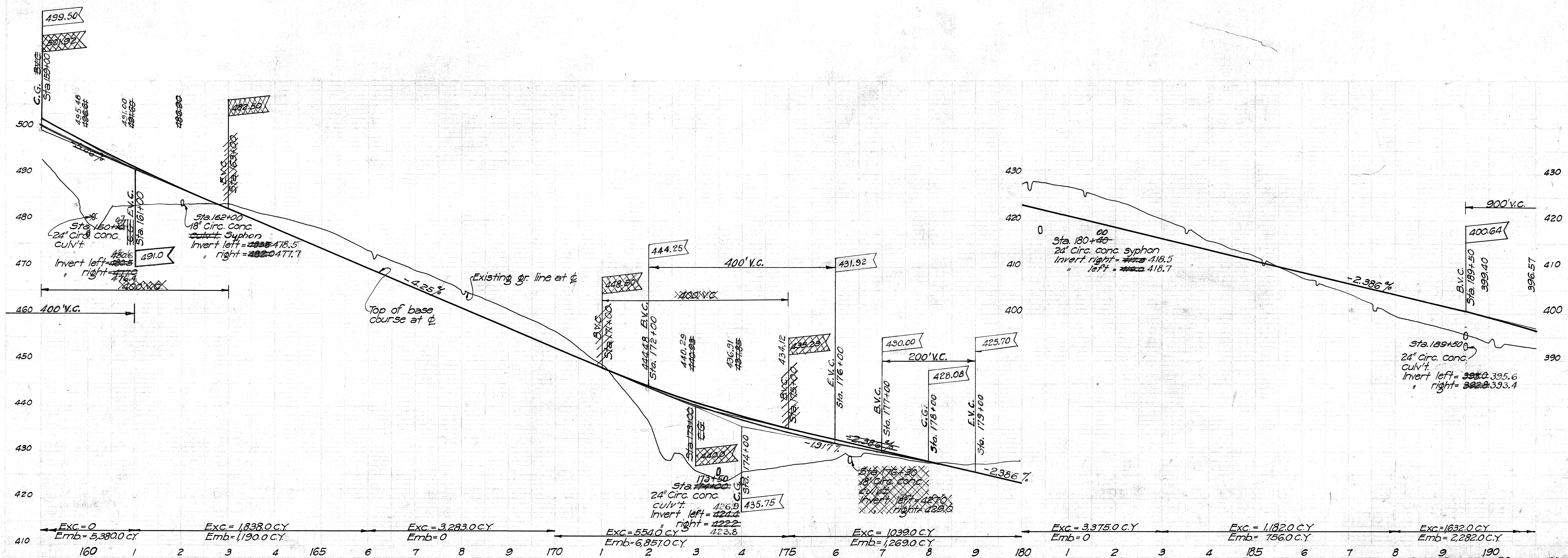
8 9 160
4426.8

IRRIGATED CANE LANDS

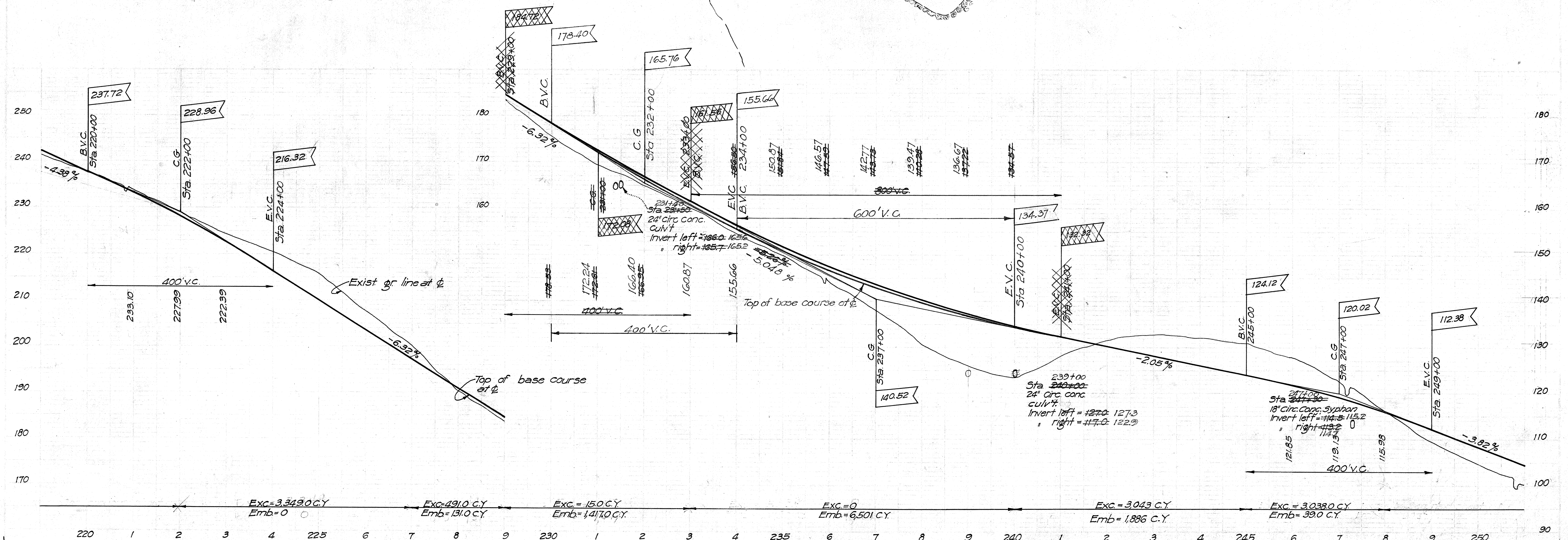
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HA	21-8	1937	9	42



IRRIGATED CANE LANDS



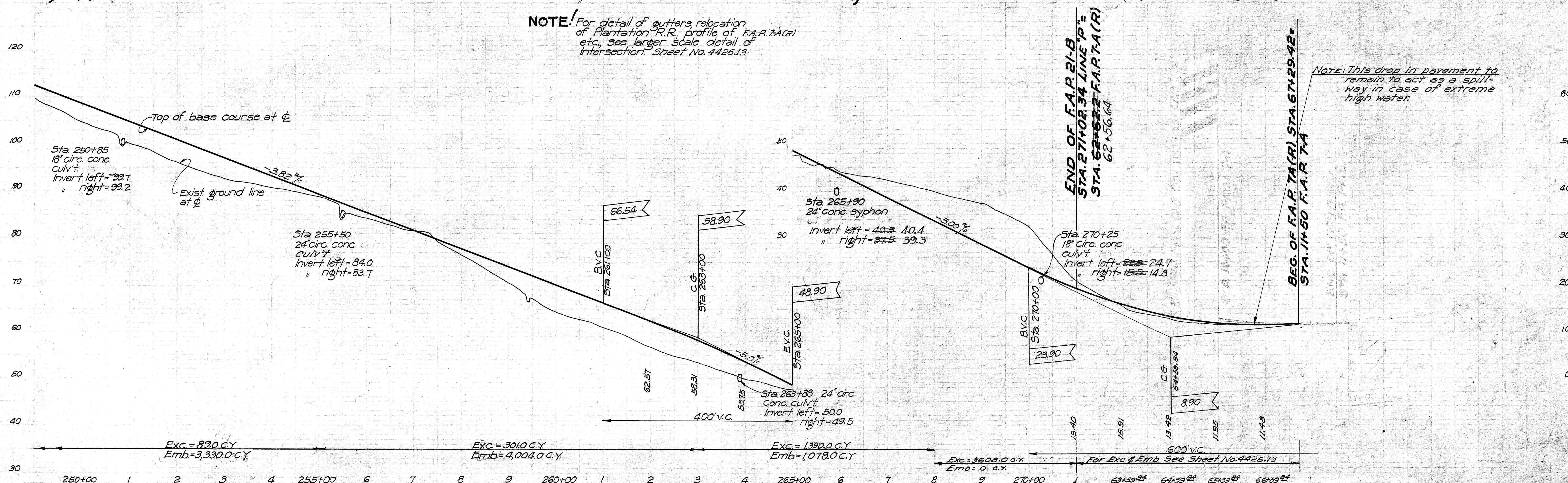
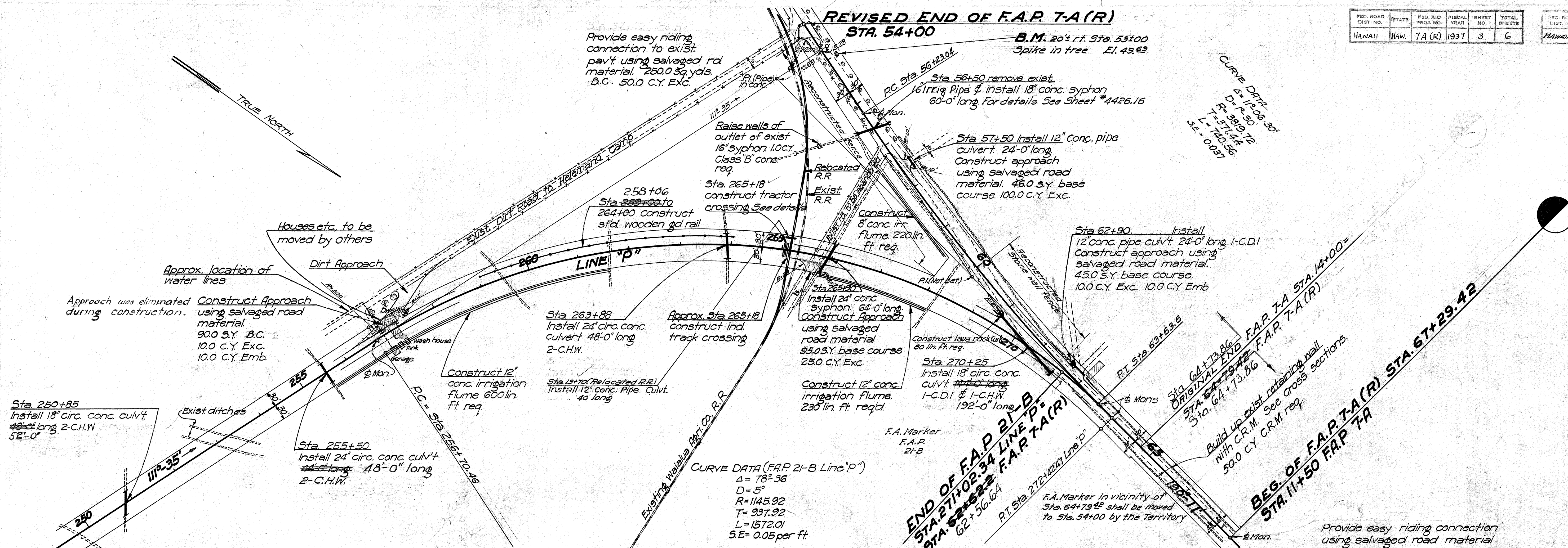
I R R I G A T E D C A N E L A N D S



4426.11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TA (R)	1937	3	6

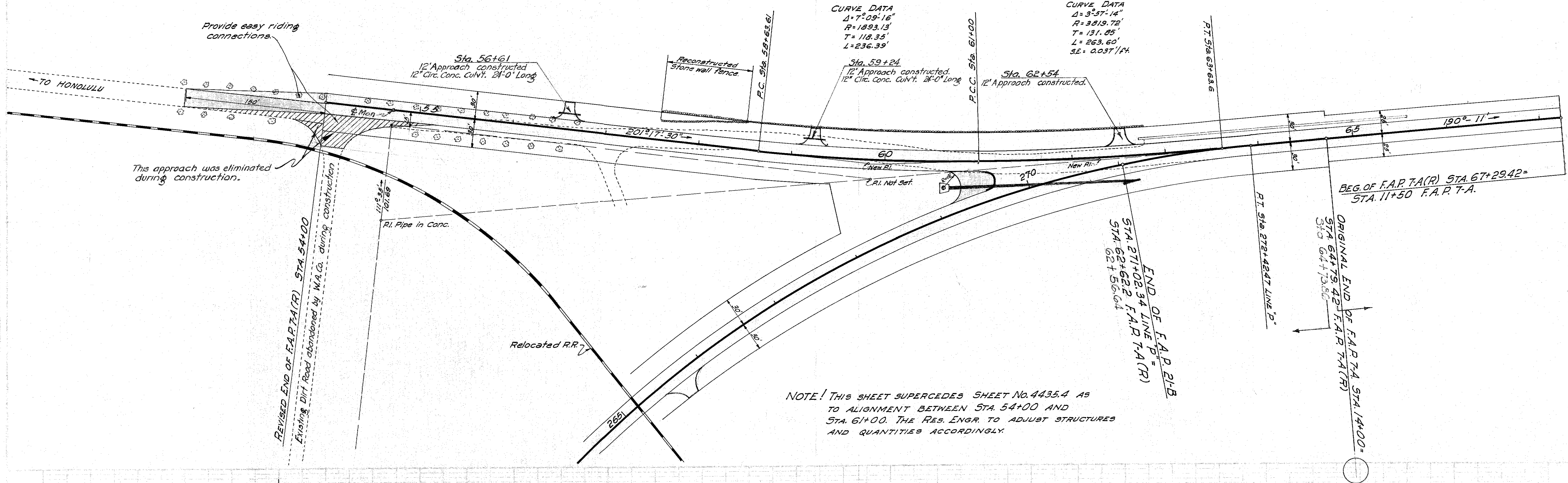
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TA (R)	1937	12	42



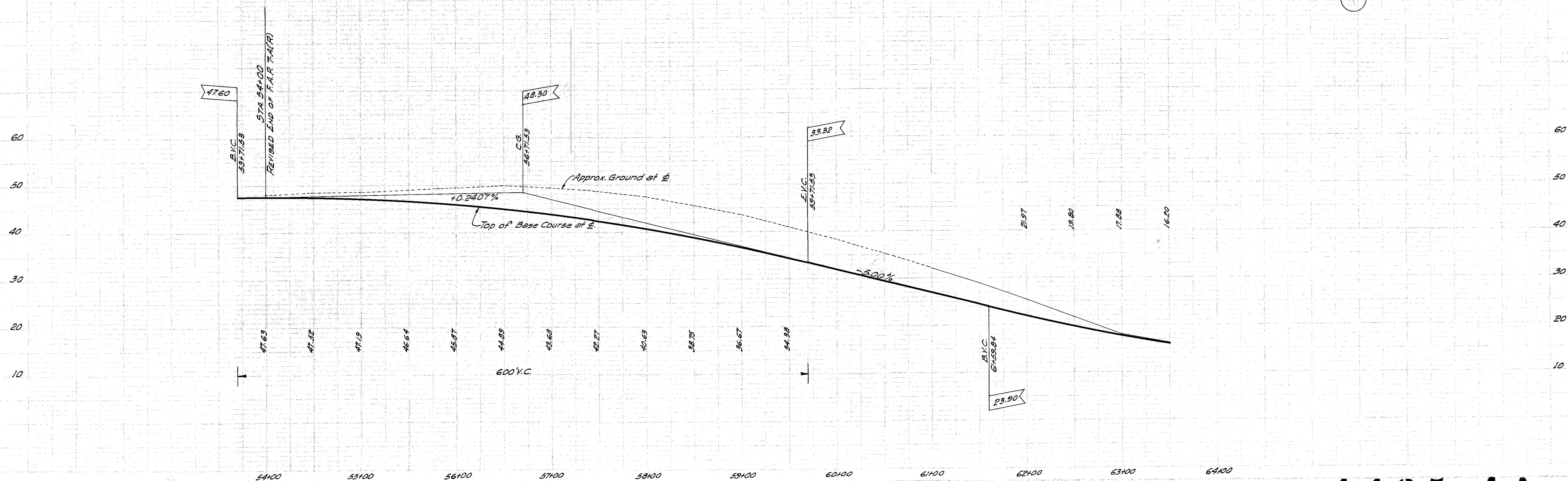
4435.3

4426.12

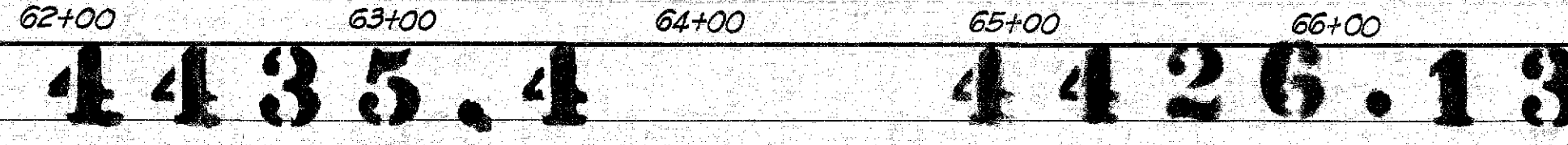
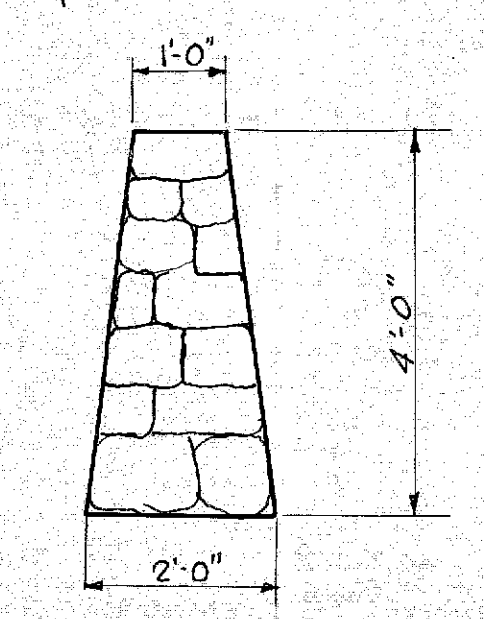
FED. ROAD DIST. NO.	STATE	FISCAL YEAR	PROJ. NO.	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1937	7-A(R)	4-A	6



NOTE! THIS SHEET SUPERCEDES SHEET No. 4435.4 AS TO ALIGNMENT BETWEEN STA. 54+00 AND STA. 61+00. THE RES. ENGR. TO ADJUST STRUCTURES AND QUANTITIES ACCORDINGLY.



4435.4A



Y.
a cloth

