

LIST OF COMMON ABBREVIATIONS

- CRM - Cement Rubble Masonry
 DRM - Dry Rubble Masonry
 CRMP - Cement Rubble Masonry Paving
 Circ. Conc. Culvert - Circular Concrete Culvert which is either -
 (a) Cast-in-place Concrete Culvert or
 (b) Concrete pipe Culvert
 Box Culvert - Various Rein. Conc. Box Culvert as detailed
 C.D.I. - Concrete Drop Intake
 M.D.I. - Masonry Drop Intake
 CHW - Concrete Head Wall
 CB - Catch Basin
 TP - Telephone Pole
 EP - Wooden Electric Pole
 T - Tree
 H - Hedge

$\Delta = 61^{\circ}37'00''$
 $D_c = 3^{\circ}00'$
 $D_e = 52^{\circ}37'00''$
 $A_c = 1909.86'$
 $L_c = 1753.89'$
 $L_s = 300'$
 $T_s = 1290.02'$
 $\theta_s = 450'$

Sta. 4+89.03
 Construct Intersection as
 Shown on Sheet No. 5194.3B
 Grade Approaches -
 See Profile below &
 X-Sections

Install 24" Circ. Conc. Culvert 100' in Rt. 2 M.D.I. Sta. 4+50
 EST. QUANT. CRM 5 cy

Sta. 3+80.04
 Begin Pavement
 Sta. 0+00

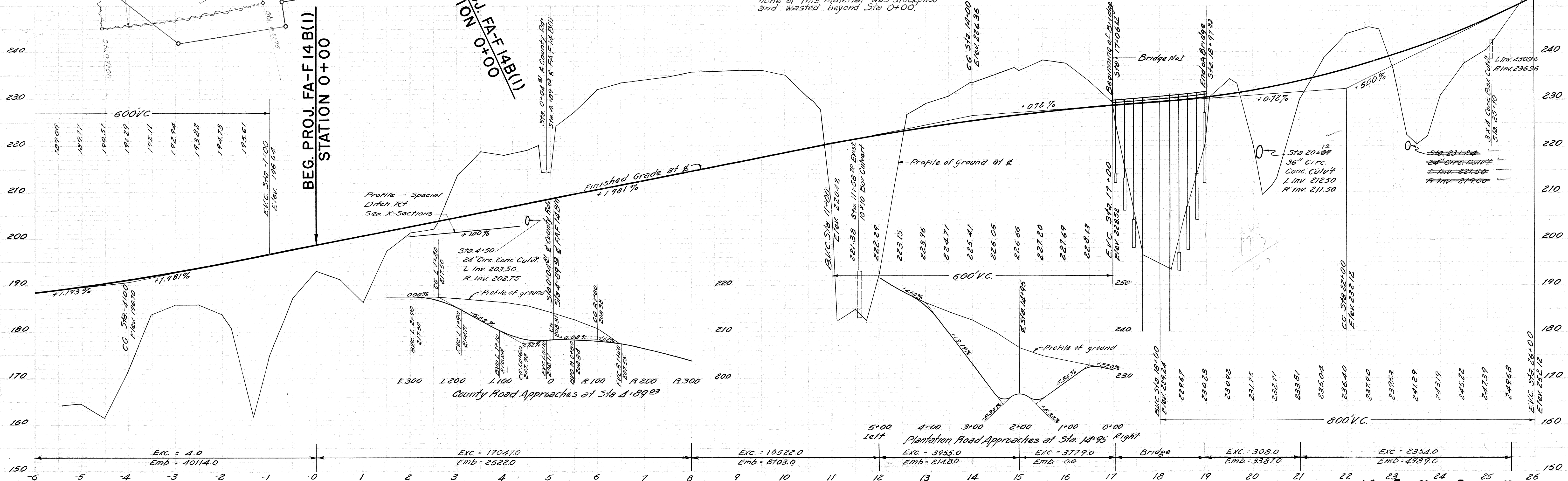
FA Marker
 FA-F 14B(1)
 E. Mon = 0+07.25

BEG. PROJ. FA-F 14B(1)
 STATION 0+00

NOTE!
 Stockpile Approximately 20000 cu. yds. of excess excavation from between Sta. 0+00 and 8+00 beyond Sta. 0+00 as directed by the Resident Engineer. By letter No. H-52.524 dated Feb. 7, 1949, none of this material was stockpiled and wasted beyond Sta. 0+00.

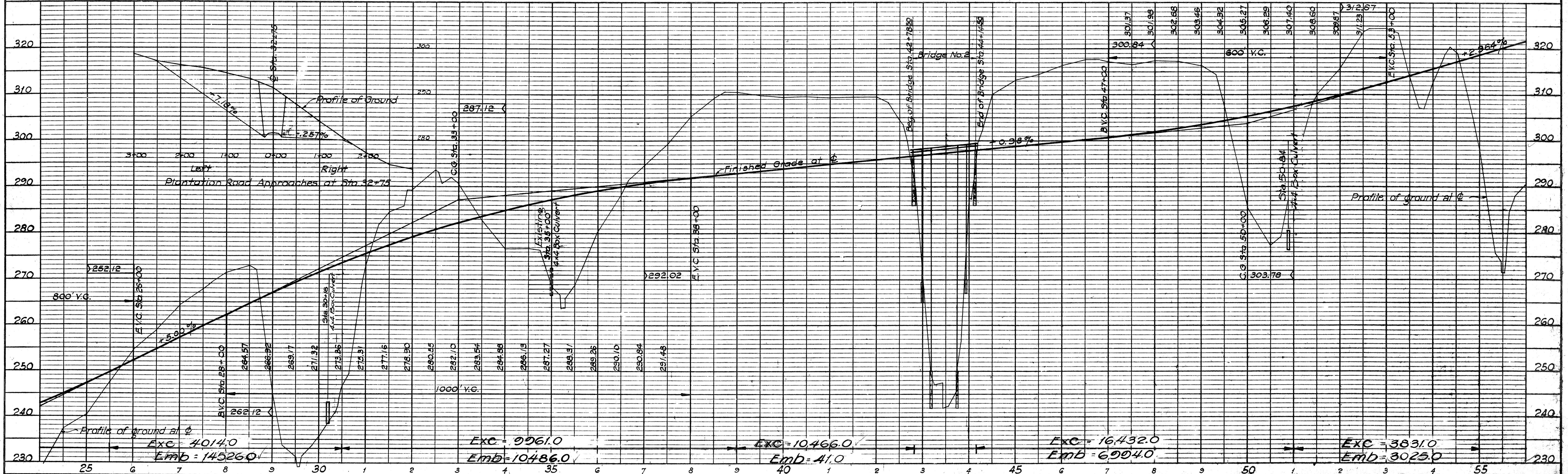
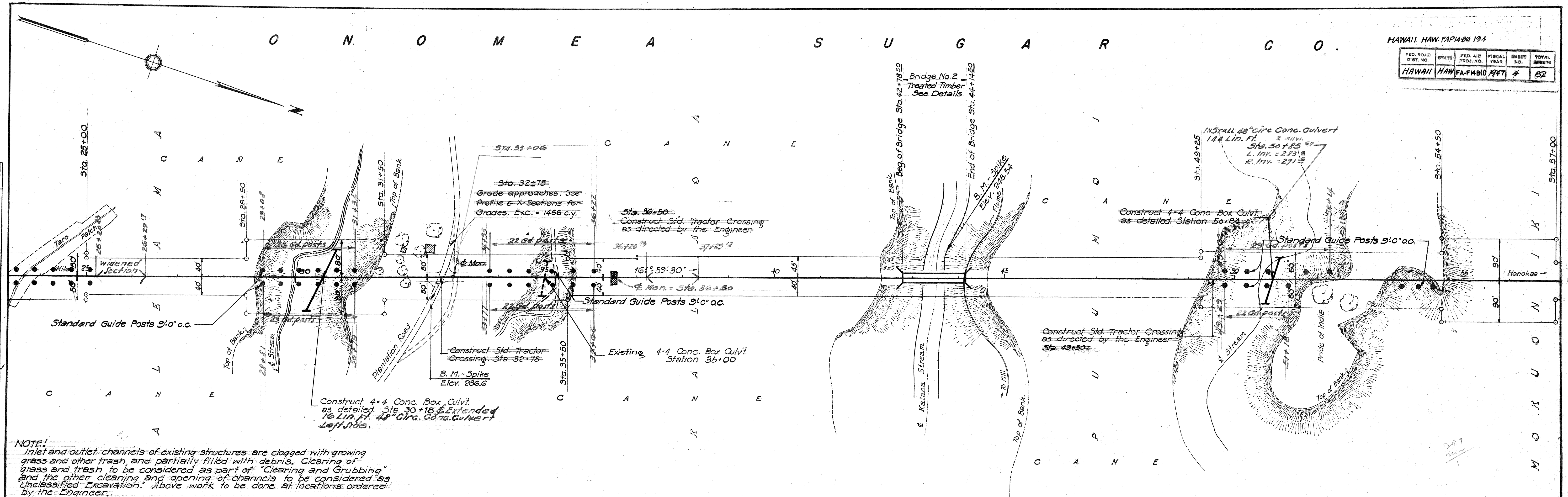
NOTE!!
 The waste anticipated at present grades will be partially eliminated by adjustment of grades made during construction. The balance of waste shall be used as far as practicable in widening shoulder and embankment.

NOTE:
 Soft ground in two patch shall receive a layer of rocky material selected from excavation. After compacting lay 6" conc. tile drains to catch all sources of spring water (Est 300 lin ft). Cover tile drains with at least 2ft. of select material used for sub-base (Est 50 cu yd). Then complete fill.



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNED		
	CHECKED		
	BY		
	DATE		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNED		
	CHECKED		
	BY		
	DATE		

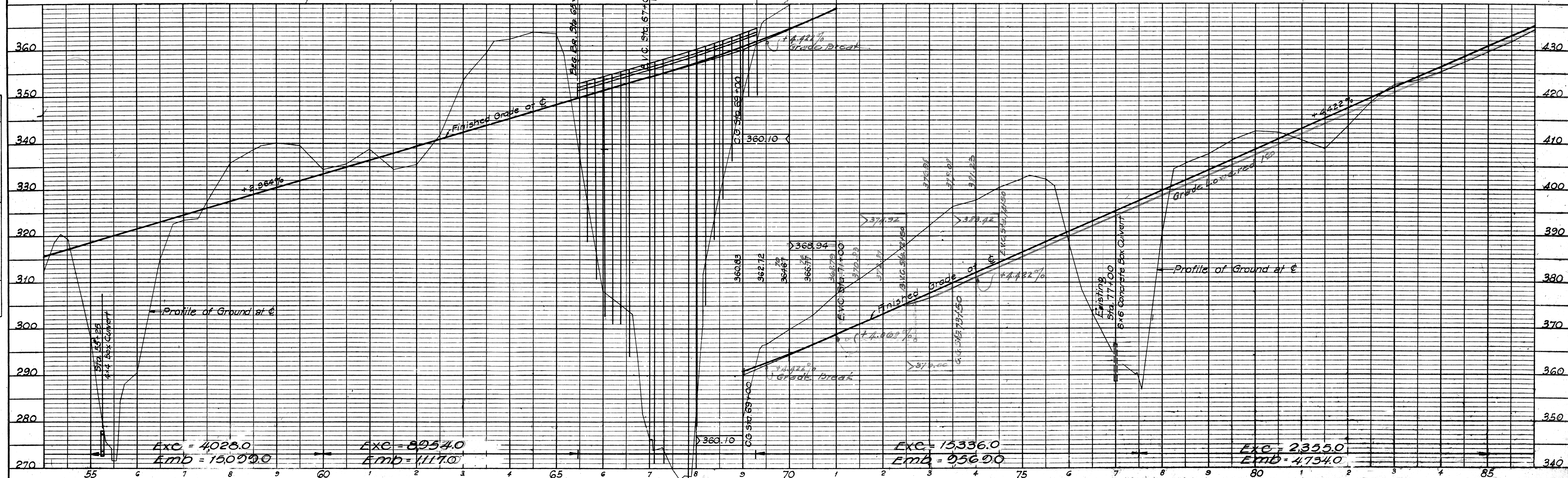
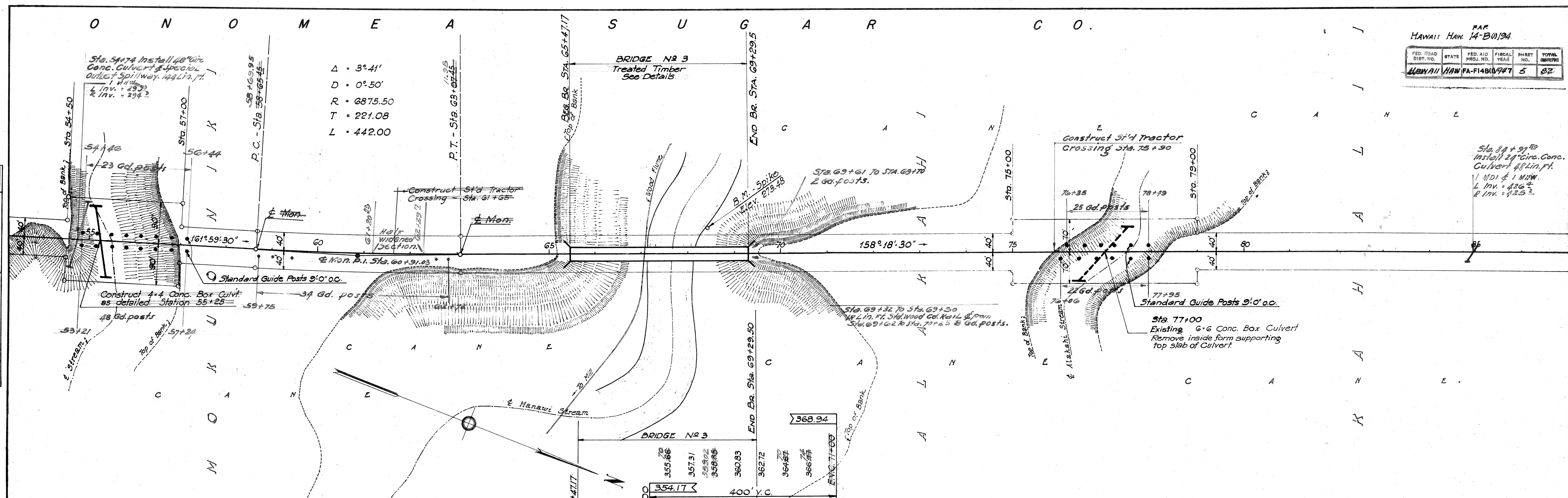


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	FA-FW810	1947	4	82

FAP

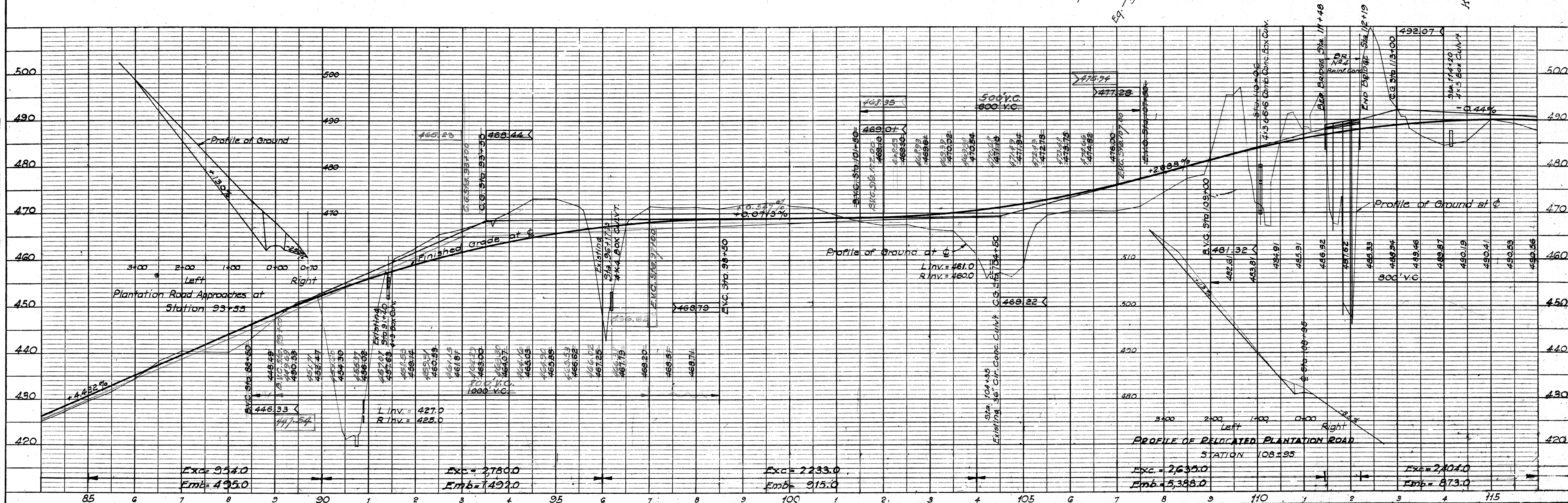
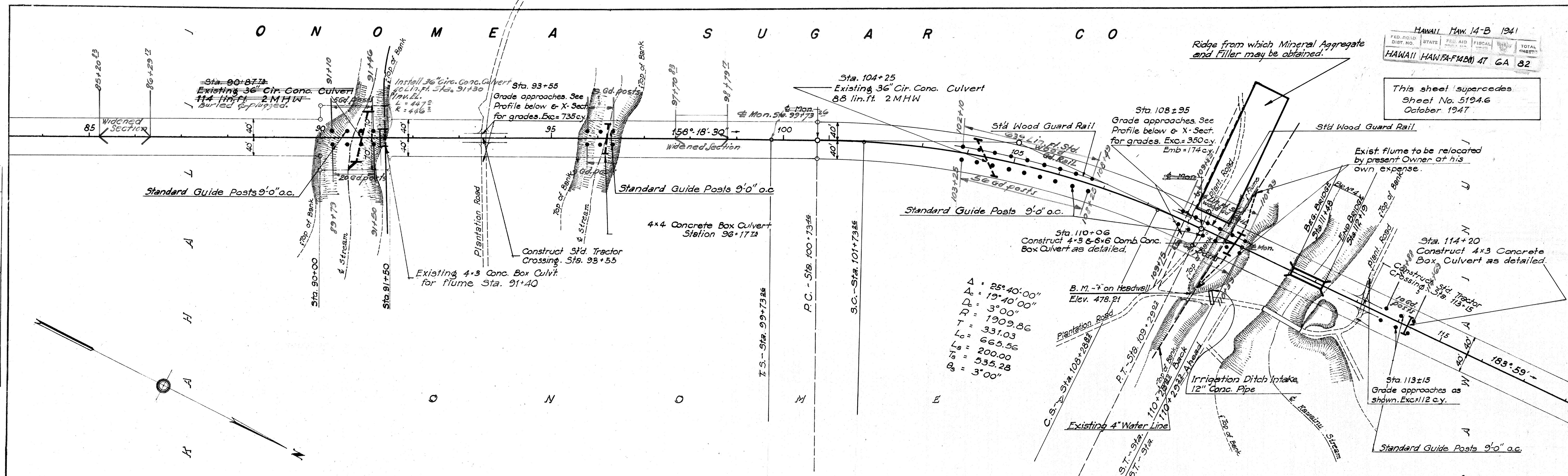
HAWAII HAW. 14-B(0)94.

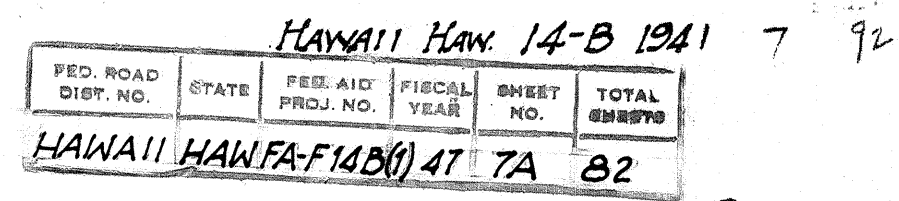
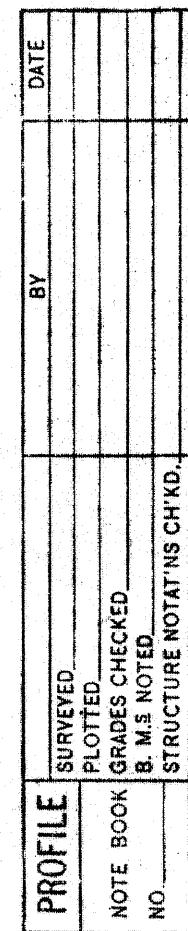
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHRST NO.	TOTAL COST
HAWAII	HAW	FA-F14B(0)947	5	82	



PLAN	SURVEYED	DATE
NOTE BOOK	BY	
NO.		

PROFILE	SURVEYED	DATE
NOTE BOOK	BY	
NO.		





PEPEEKEO
SUGAR CO.

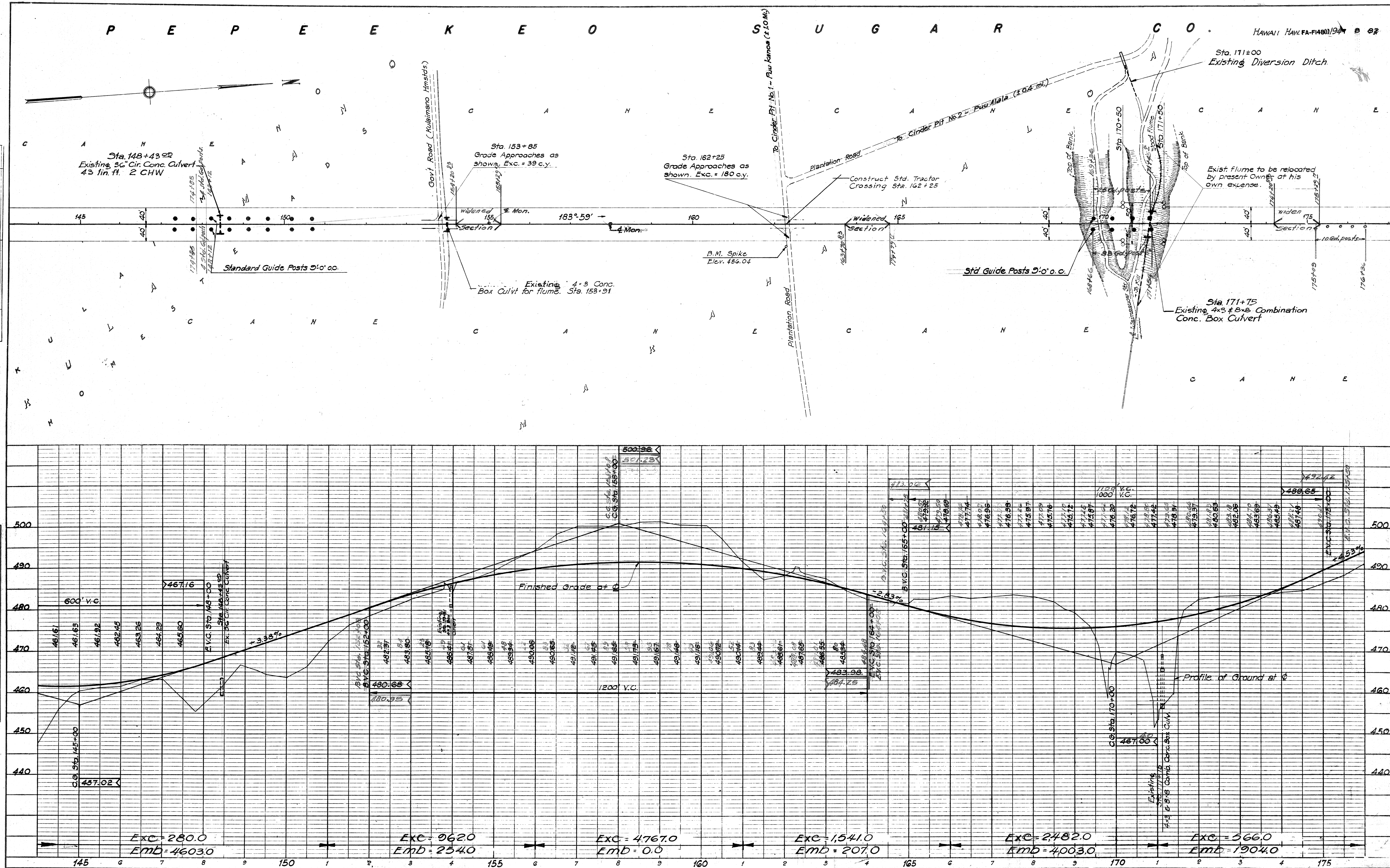
B. M. - Spike
Elev., 435.28

Construct Diversion Ditch
from Sta. 143+50 to Sta. 150+00
Est: Uncl. Exc. = 785c.y.

This sheet supercedes
Sheet No. 5194.7
October 1947

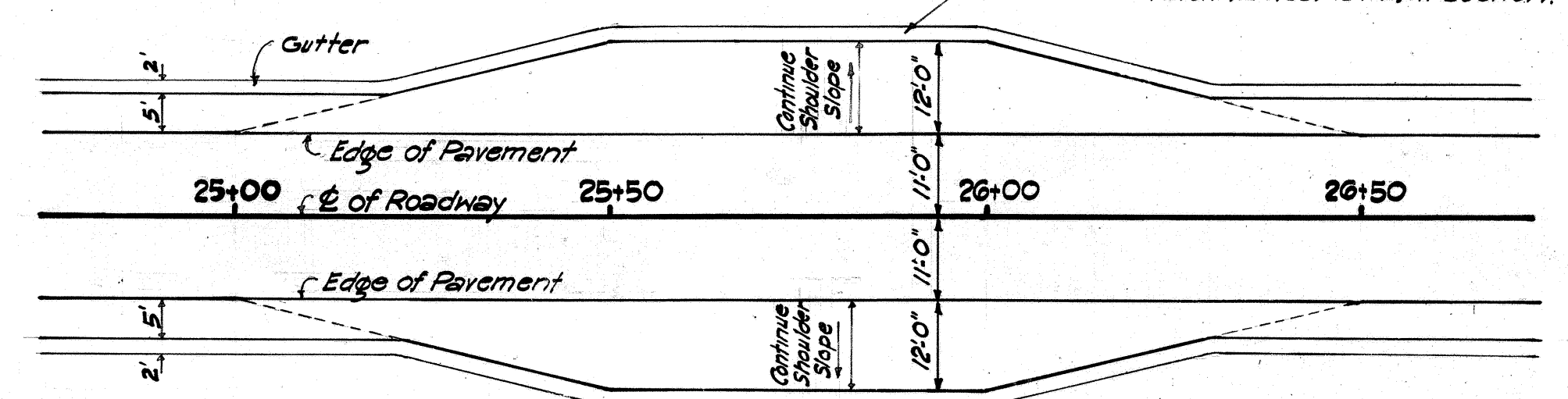
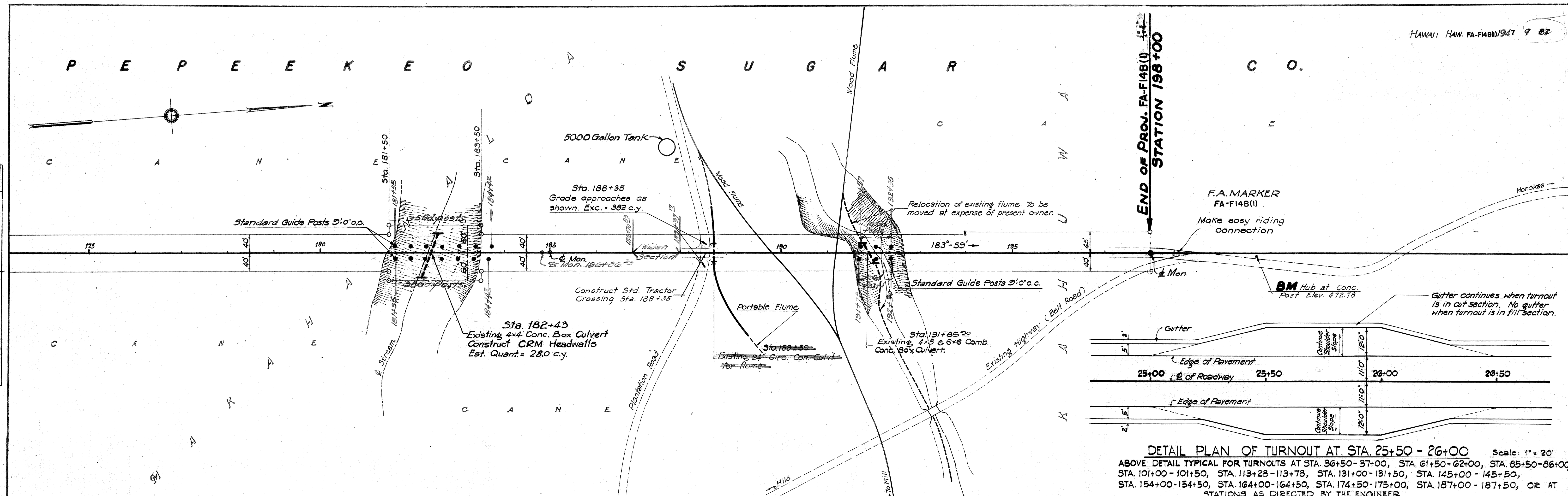
PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	ALIGNED CHECKED
	NO.	RT. OF WAY CHECKED

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	GRADES CHECKED
	NO.	STRUCTURE NOTATIONS CHKD.

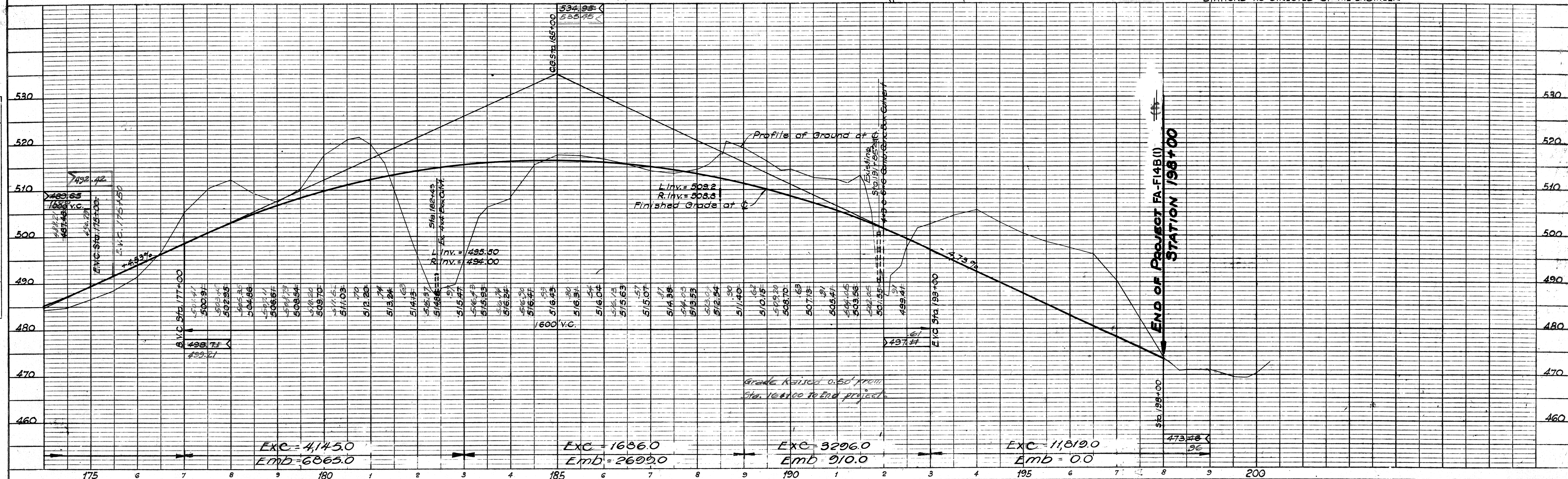


PLAN	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
NO.			

PROFILE	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
NO.			



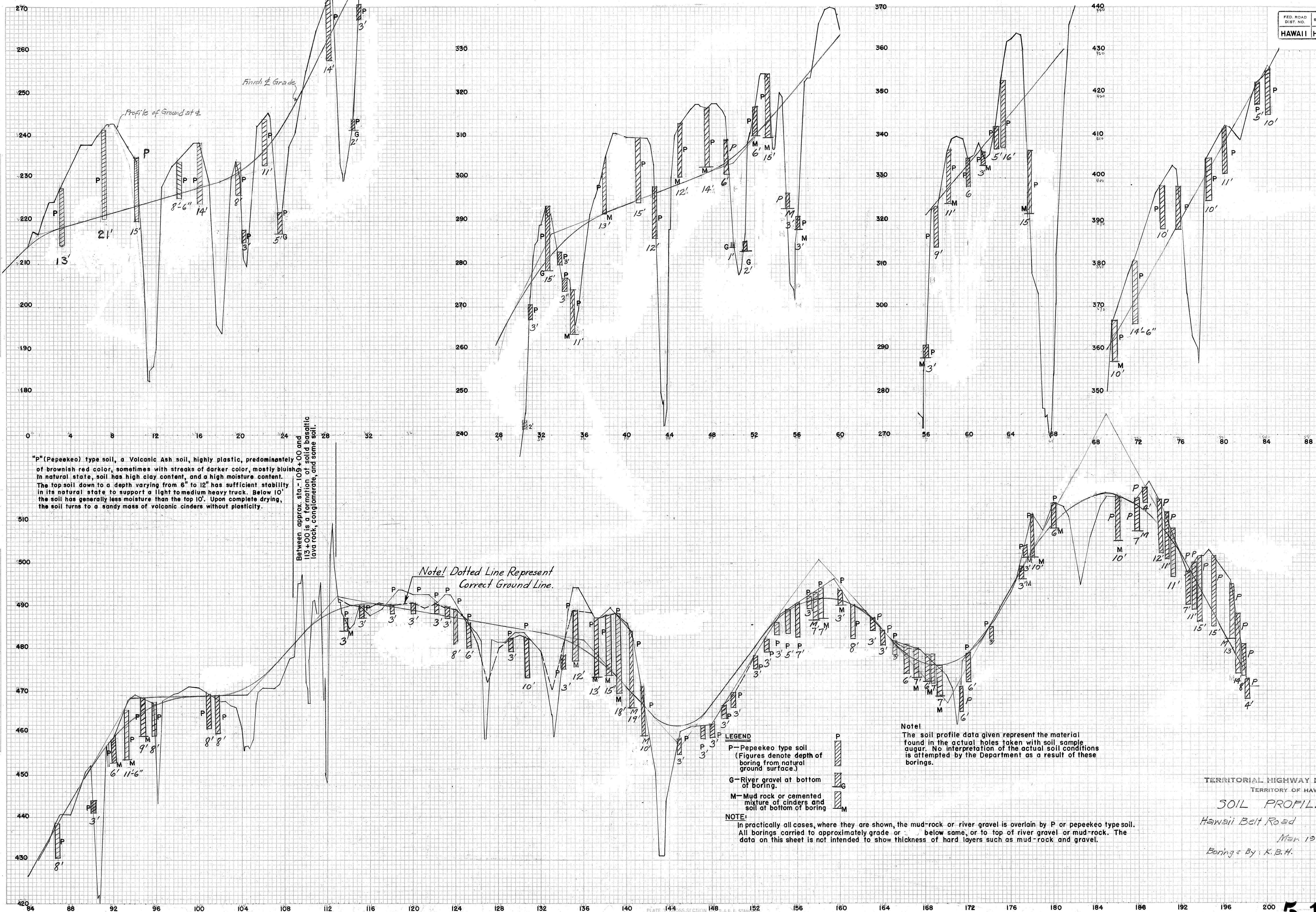
DETAIL PLAN OF TURNOUT AT STA. 25+50 - 26+00 Scale: 1" = 20'
 ABOVE DETAIL TYPICAL FOR TURNOUTS AT STA. 36+50-37+00, STA. 61+50-62+00, STA. 85+50-86+00, STA. 101+00-101+50, STA. 113+28-113+78, STA. 131+00-131+50, STA. 145+00-145+50, STA. 154+00-154+50, STA. 164+00-164+50, STA. 174+50-175+00, STA. 187+00-187+50, OR AT STATIONS AS DIRECTED BY THE ENGINEER



5194.9
 5194.9

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	BY
NOTE BOOK	NO.
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	BY
NOTE BOOK	NO.
AREAS CHECKED	



"P" (Peepee) type soil, a Volcanic Ash soil, highly plastic, predominantly of brownish red color, sometimes with streaks of darker color, mostly bluish in natural state, soil has high clay content, and a high moisture content. The top soil down to a depth varying from 6" to 12" has sufficient stability in its natural state to support a light to medium heavy truck. Below 10' the soil has generally less moisture than the top 10'. Upon complete drying, the soil turns to a sandy mass of volcanic cinders without plasticity.

Between approx. sta. 109+00 and 113+00 is a formation of solid basaltic lava rock, conglomerate, and some soil.

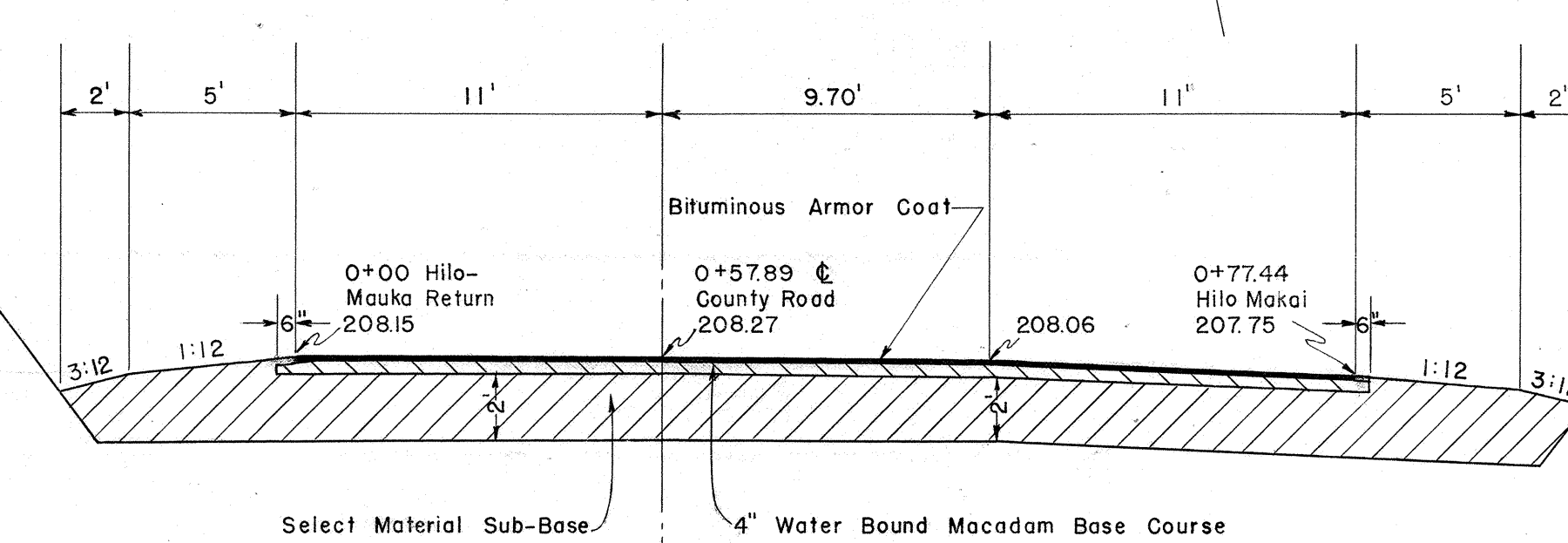
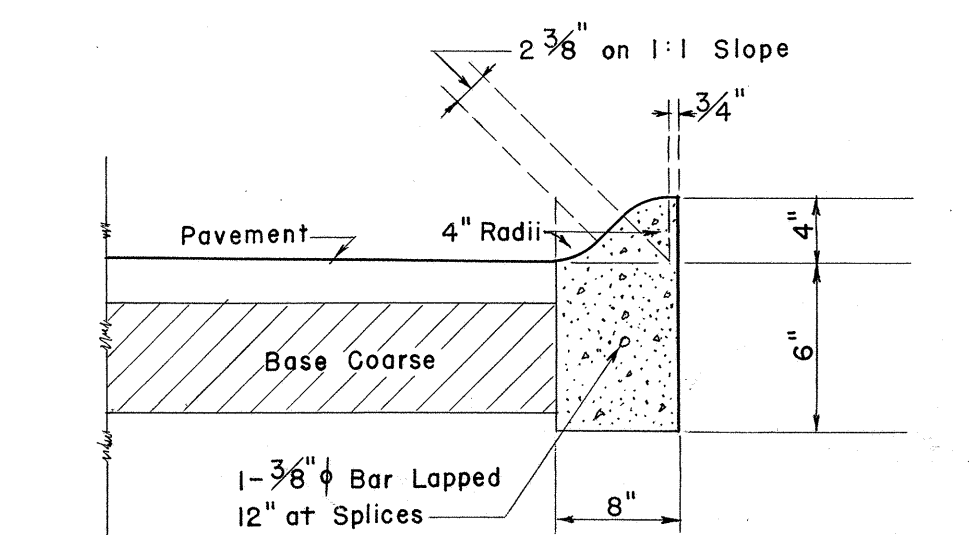
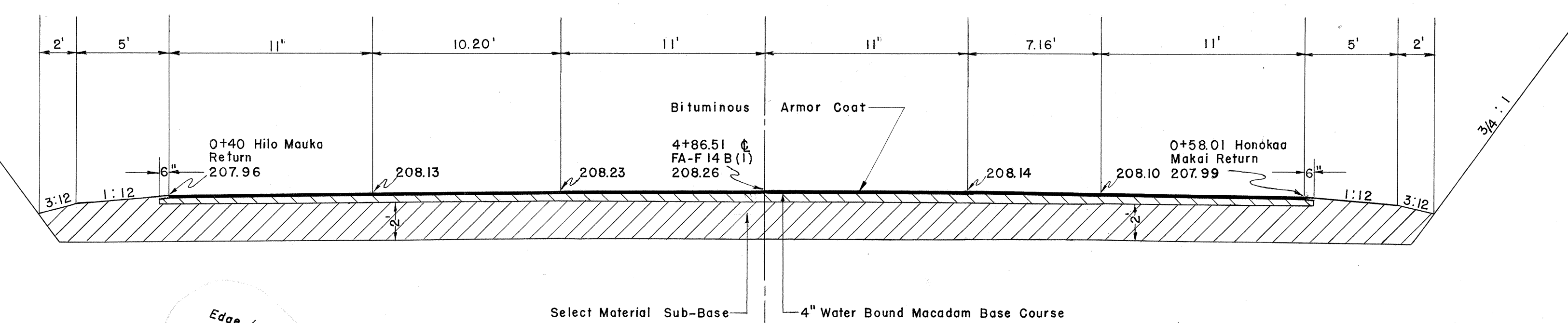
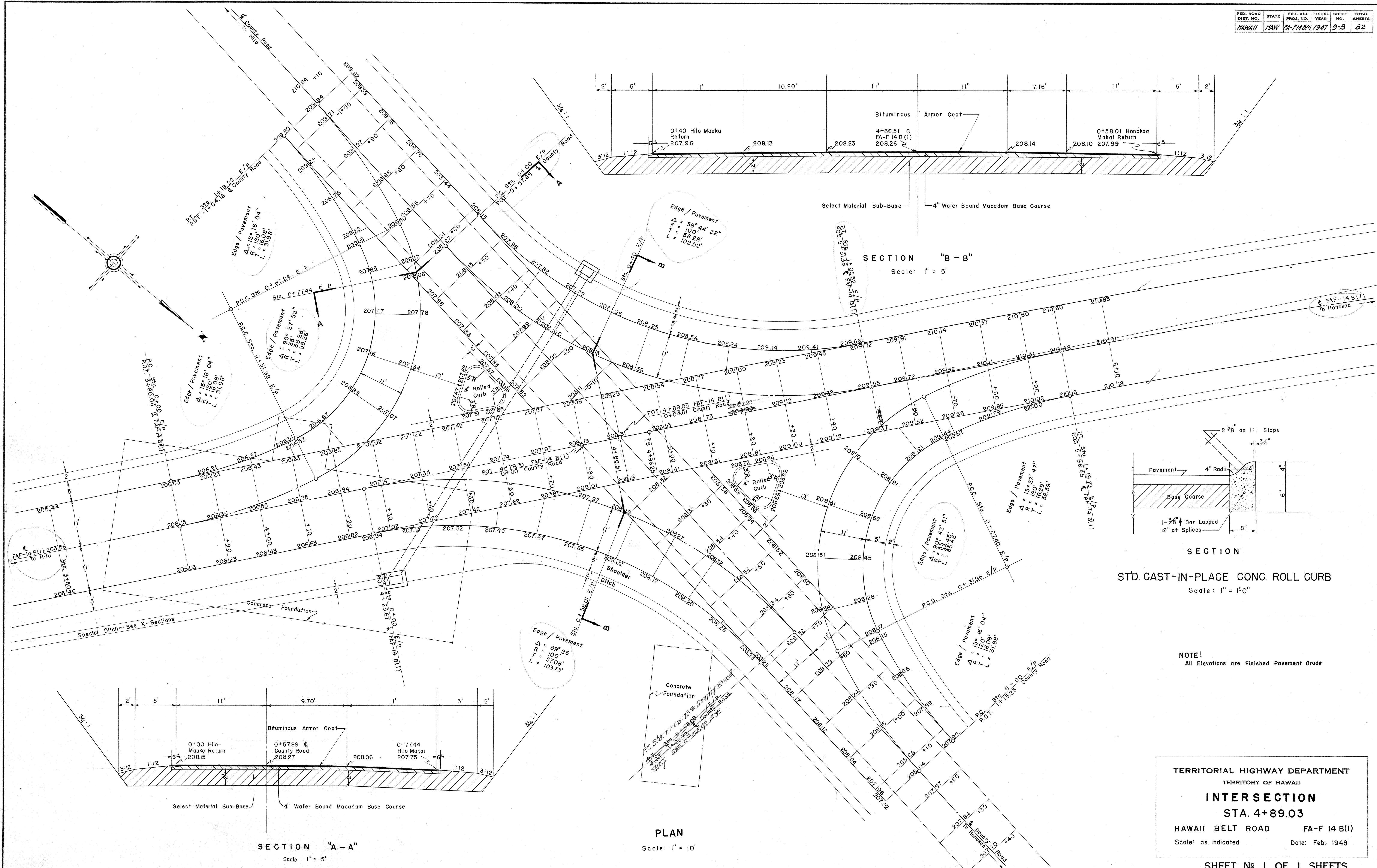
Note! Dotted Line Represent Correct Ground Line.

LEGEND
P—Peepee type soil (Figures denote depth of boring from natural ground surface.)
G—River gravel at bottom of boring.
M—Mud rock or cemented mixture of cinders and soil at bottom of boring

NOTE:
In practically all cases, where they are shown, the mud-rock or river gravel is overlain by P or peepee type soil. All borings carried to approximately grade or below same, or to top of river gravel or mud-rock. The data on this sheet is not intended to show thickness of hard layers such as mud-rock and gravel.

Note!
The soil profile data given represent the material found in the actual holes taken with soil sample augur. No interpretation of the actual soil conditions is attempted by the Department as a result of these borings.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
SOIL PROFILE
Hawaii Belt Road Proj. No. FA-F14B(1)
Mar 1947
Borings By: K.B.H.



PLAN
Scale: 1" = 10'

SECTION "A-A"
Scale: 1" = 5'

SECTION "B-B"
Scale: 1" = 5'

SECTION
STD. CAST-IN-PLACE CONC. ROLL CURB
Scale: 1" = 1'-0"

NOTE!
All Elevations are Finished Pavement Grade

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
INTERSECTION
STA. 4+89.03
HAWAII BELT ROAD FA-F 14 B(1)
Scale: as indicated Date: Feb. 1948

SHEET No. 1 OF 1 SHEETS

5194.9B

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

March 1948