FED ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	258	1937	15	32

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

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

Exc = 38.0
Emb = 186.9

2.3 3.51
54+50
C = 11
F = 27

Exc = 40.7
Emb = 120.4

2.2 3.96
54+00
C = 25
F = 63

Exc = 50.0
Emb = 101.9

2.4 3.24
53+50
C = 29 ✓
F = 47

Exc = 65.7
Emb = 75.9

3.0 3.20
53+00
C = 42 ✓
F = 55 ✓

Exc = 55.2
Emb = 45.1

3.3 3.20
52+66.2
C = 46 ✓
F = 57 ✓

Exc = 30.6
Emb = 141.7

3.2 4.50
BOTTOM MUD
57+00
C = 18
F = 75

Exc = 25.9
Emb = 149.1

3.2 4.45
BOTTOM MUD
56+50
C = 15
F = 72

Exc = 23.2
Emb = 153.7

3.0 4.34
56+00
C = 13
F = 83

Exc = 31.5
Emb = 141.7

2.7 4.22
55+50
C = 12
F = 73

Exc = 31.5
Emb = 141.7

2.6 3.85
55+00
C = 15 ✓
F = 70 ✓

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.15

P.O. ROAD DIST. NO.	STATE	FED. AID NO.	PROJ. YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	25B	1937	16	32

FINAL SURVEY

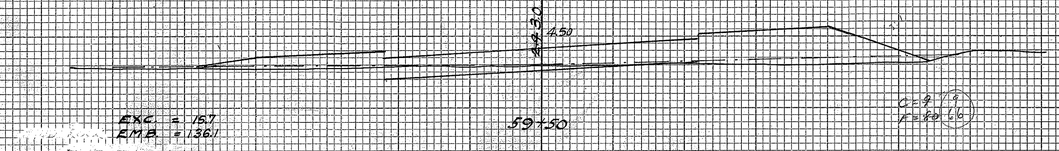
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS & VOLS	
AREAS CHECKED	
NOTE BOOK	
NO.	

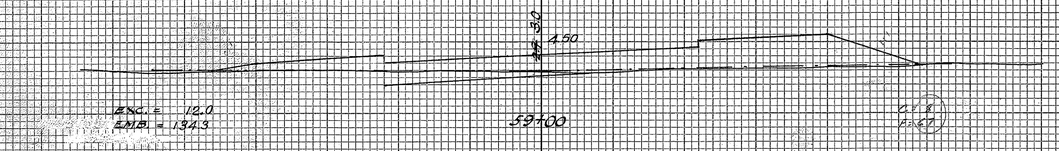
BY: H. Ringert, R. Hansen, J.C. Padgett, A.B. Brown, K.J. — DATE: 5/27, 7-27

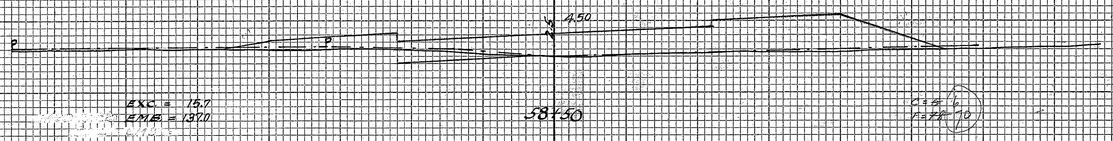
ORIGINAL SURVEY

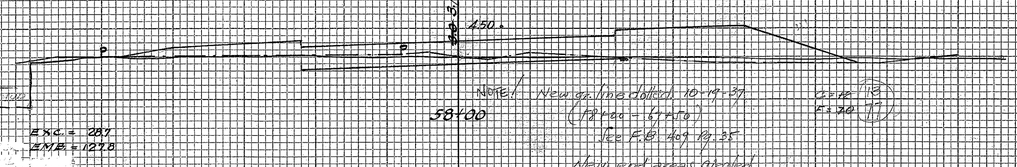
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS & VOLS	
AREAS CHECKED	
NOTE BOOK	
NO.	

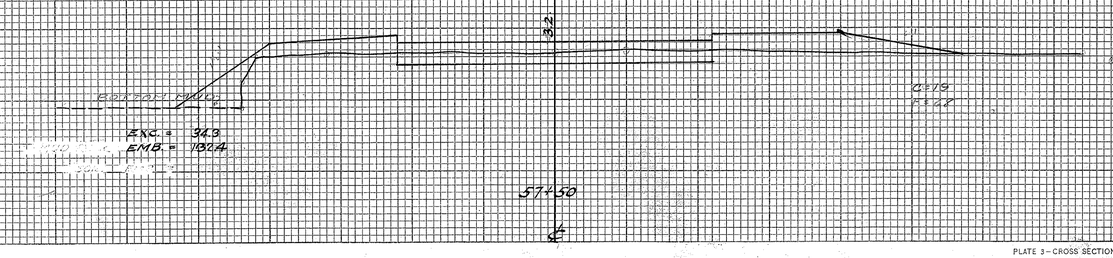
BY — DATE

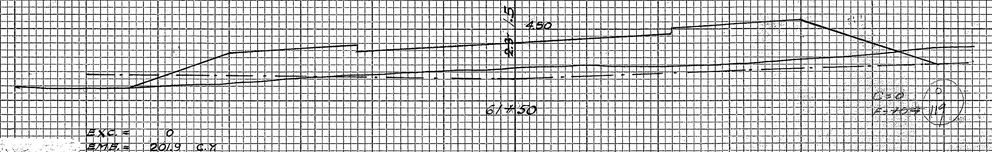


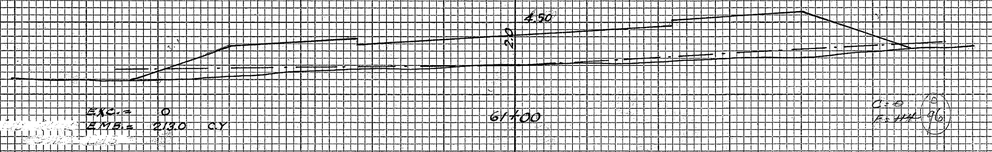


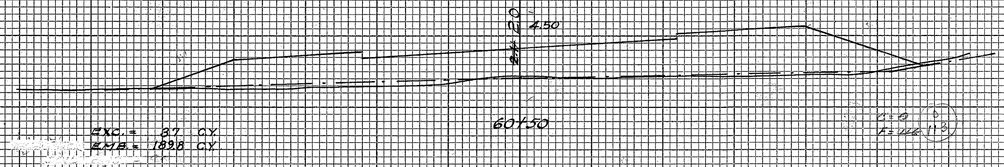












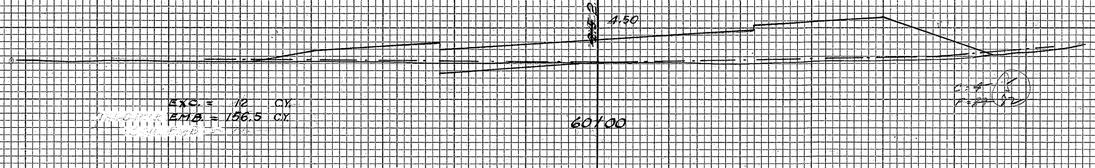


PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.16

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25-B	1937	17	32

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

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

63+00
EXC. = 0
EMB. = 210.2 C.Y.

64+50
EXC. = 0
EMB. = 202.8 C.Y.

64+00
EXC. = 0
EMB. = 185.2 C.Y.

63+50
EXC. = 0
EMB. = 184.3 C.Y.

63+00
EXC. = 0
EMB. = 200.8 C.Y.

62+50
EXC. = 0
EMB. = 210.2 C.Y.

62+00
EXC. = 0
EMB. = 201.9 C.Y.

68+50
EXC. = 47.2 C.Y.
EMB. = 121.3 C.Y.
Special Rock Emb. = 9.3 C.Y.

68+00
EXC. = 30.6 C.Y.
EMB. = 100.2 C.Y.

67+50
EXC. = 9.3 C.Y.
EMB. = 122.2 C.Y.

67+00
EXC. = 0 C.Y.
EMB. = 197.0 C.Y.

66+50
EXC. = 0 C.Y.
EMB. = 177.0 C.Y.

66+00
EXC. = 0
EMB. = 201.9 C.Y.

65+50
EXC. = 0
EMB. = 205.6 C.Y.

PLATE 3 – CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.17

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW 25B	1937	18	32

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

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

72+00
Exc. = 0
Emb. = 1431.5 C.Y.
Special Rock Emb. = 52.8 C.Y.
4.89
4.61
C: 0
F: 283
SLOPE: 2:1

71+50
Exc. = 0
Emb. = 409.6 C.Y.
Special Rock Emb. = 55.6 C.Y.
4.52
C: 0
F: 241
SLOPE: 3:1

71+00
Exc. = 0
Emb. = 420.2 C.Y.
Special Rock Emb. = 58.3 C.Y.
4.50
C: 0
F: 213
SLOPE: 3:1

70+50
Exc. = 0
Emb. = 365.7 C.Y.
Special Rock Emb. = 58.3 C.Y.
4.50
C: 0
F: 213
SLOPE: 3:1

70+00
Exc. = 0
Emb. = 295.4 C.Y.
Special Rock Emb. = 57.4 C.Y.
4.50
C: 0
F: 180
SLOPE: 3:1

69+50
Exc. = 8.3 C.Y.
Emb. = 206.5 C.Y.
Special Rock Emb. = 51.9 C.Y.
4.50
C: 0
F: 137
SLOPE: 3:1

69+00
Exc. = 94.3 C.Y.
Emb. = 134.3 C.Y.
Special Rock Emb. = 32.4 C.Y.
4.50
SPECIAL ROCK EMB.
C: 0
F: 94
SLOPE: 2:1

SPECIAL ROCK EMB = 343 C.Y.
EXC. = 0
Emb = 2167 C.Y.
5.77
C: 0
F: 128
SLOPE: 1:1

75+50
Exc. = 0
Emb. = 229.6 C.Y.
SPECIAL ROCK EMB = 36.2 C.Y.
6.25
C: 0
F: 140
SLOPE: 2:1

75+00
Exc. = 0
Emb. = 408.6 C.Y.
Special Rock Emb. = 47.2 C.Y.
6.25
C: 0
F: 140
SLOPE: 2:1

74+50
6.69
73+85.59 TO 74+61.41
BRIDGE EXCEPTION

74+00
Exc. = 0
Emb. = 517.4 C.Y.
Special Rock Emb. = 61.5 C.Y.
6.25
SPECIAL ROCK EMB.
C: 0
F: 121
SLOPE: 3:1

73+50
Exc. = 0
Emb. = 573.2 C.Y.
Special Rock Emb. = 67.6 C.Y.
5.75
C: 0
F: 271
SLOPE: 3:1

73+00
Exc. = 0
Emb. = 530.6 C.Y.
Special Rock Emb. = 62.0 C.Y.
5.25
C: 0
F: 275
SLOPE: 3:1

72+50
Exc. = 0
Emb. = 479.6 C.Y.
Special Rock Emb. = 55.6 C.Y.

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.18

FED. ROAD DIST. NO.	STATE	FED. ROAD NO.	FISCAL YEAR	SHEET NO.
HAWAII	HAW	25B	1937	32

FINAL SURVEY
NOTE BOOK
NO.

	BY	DATE
SURVEYED	H. Padgett	6/36
PLOTTED	H. Padgett	
TEMPLATE	H. Padgett	4-37
AREAS	[illegible]	7-37
AREAS CHECKED	[illegible]	

ORIGINAL SURVEY
NOTE BOOK
NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		5/26/37
AREAS		
AREAS CHECKED		

78 + 59

EXC. = 21.9 C.Y.
EMB. = 363.0 C.Y.

C = 5
F = 27.9

EXC. = 49.1 C.Y.
EMB. = 347.2 C.Y.

C = 24
F = 117

78 + 03

EXC. = 19.6 C.Y.
EMB. = 359.7 C.Y.

C = 18
F = 113

EXC. = 43.5 C.Y.
EMB. = 317.1 C.Y.

C = 23
F = 122

77 + 50

EXC. = 0
EMB. = 361.1 C.Y.

C = 0
F = 112

EXC. = 33.3 C.Y.
EMB. = 410.2 C.Y.

C = 22
F = 127

77 + 00

EXC. = 0
EMB. = 344.4 C.Y.

C = 0
F = 122

EXC. = 21.3 C.Y.
EMB. = 375.9 C.Y.

C = 12
F = 127

76 + 50

EXC. = 0
EMB. = 361.4 C.Y.

C = 0
F = 114

EXC. = 13.1 C.Y.
EMB. = 528.5 C.Y.

C = 9
F = 117

76 + 00

EXC. = 0
EMB. = 277.8 C.Y.

C = 0
F = 112

EQ 78+80.22 = 79+20.56

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

402.19

DIST. NO.					
HAWAII	HAV	258	1937	20	32

FINAL SURVEY		DATE
NOTE BOOK	SURVEYED	2-26
NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	
		6-28-37

ORIGINAL SURVEY		DATE
NOTE BOOK	SURVEYED	5-16-37
NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

Bottom Hwd.

EXC. = 30.6 C.Y.
EMB. = 272.2 C.Y.

5.00

+50

C = 23
F = 149

89 + 00

C = 49
F = 50

EXC. = 181.5 C.Y.
EMB. = 233.3 C.Y.

Bottom Hwd.

5.00

82 + 00

C = 10
F = 193

88 + 00

C = 49
F = 76

EXC. = 306 C.Y.
EMB. = 263.0 C.Y.

EXC. = 169.0 C.Y.
EMB. = 361.1 C.Y.

Bottom Hwd.

5.00

+50

C = 23
F = 139

87 + 00

C = 55
F = 119

EXC. = 40.6 C.Y.
EMB. = 266.7 C.Y.

EXC. = 135.2 C.Y.
EMB. = 468.5 C.Y.

Bottom Hwd.

5.00

83 + 00

C = 23
F = 149

86 + 00

C = 24
F = 154

EXC. = 41.7 C.Y.
EMB. = 232.6 C.Y.

EXC. = 109.3 C.Y.
EMB. = 537.0 C.Y.

Bottom Hwd.

5.00

+50

C = 22
F = 124

85 + 00

C = 25
F = 154

EXC. = 44.4 C.Y.
EMB. = 250.0 C.Y.

EXC. = 44.4 C.Y.
EMB. = 282.4 C.Y.

5.00

82 + 00

C = 26
F = 146

EXC. = 50 C.Y.
EMB. = 308.3 C.Y.

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	SHEETS
HAWAII	HAW	25B	1937	21 & 22	32

FINAL SURVEY		BY	DATE
	SURVEYED	J. Bridgett	6/37
	PLOTTED	J. Hennessy	"
	TEMPLATE	L.C. Padgett	"
NOTE BOOK			
NO.	AREAS CHECKED	Fred J. Smith	12-37

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

96+00
EXC. = 853 C.Y.
EMB. = 266.7 C.Y.
C = 11'
F = 7.5
CAMP 7
CAMP 8

95+00
EXC. = 1111 C.Y.
EMB. = 242.6 C.Y.
C = 10
F = 6.4

94+00
EXC. = 1011.9 C.Y.
EMB. = 266.7 C.Y.
C = 4.6
F = 4.2

93+00
EXC. = 168.7 C.Y.
EMB. = 227.8 C.Y.
C = 1.0
F = 1.2

92+00
EXC. = 372.7 C.Y.
EMB. = 157.0 C.Y.
C = 7.8
F = 9.1

91+00
EXC. = 1446.3 C.Y.
EMB. = 1022 C.Y.
C = 16.6
F = 9.3

90+00
EXC. = 303.7 C.Y.
EMB. = 159.7 C.Y.
C = 1.0
F = 3.3

102+00
EXC. = 37.0 C.Y.
EMB. = 425.9 C.Y.
C = 9
F = 13.0

101+00
EXC. = 35.2 C.Y.
EMB. = 405.6 C.Y.
C = 11
F = 11.0

100+00
EXC. = 93.3 C.Y.
EMB. = 388.9 C.Y.
C = 7
F = 10.9

99+00
EXC. = 40.7 C.Y.
EMB. = 340.7 C.Y.
C = 7.0
F = 10.1

98+00
EXC. = 66.1 C.Y.
EMB. = 268.5 C.Y.
C = 7.2
F = 7.5

97+00
EXC. = 90.7 C.Y.
EMB. = 253.7 C.Y.
C = 7.4
F = 6.2

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

402, 21 & 22

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25-B	1937	23	32

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
4/40
4/39
4/39

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE
1/39

14.28
9.1
105+00
C = 82
F = 344
EXC. = 51.9 C.Y.
EMB. = 419.0 C.Y.

25.88
108+00
C.L. H.L.R.R.
C = 57
F = 90

EXC. = 163.9 C.Y.
EMB. = 185.2 C.Y.

12.55
9.2
+50
C = 34
F = 202
EXC. = 51.9 C.Y.
EMB. = 346.3 C.Y.

23.94
22.5
+50
C = 70
F = 105
EXC. = 117.6 C.Y.
EMB. = 169.9 C.Y.

11.64
7.5
104+00
C = 72
F = 172
EXC. = 38.9 C.Y.
EMB. = 321.3 C.Y.

22.00
20.5
107+00
C = 57
F = 72
EXC. = 85.2 C.Y.
EMB. = 150.9 C.Y.

9.76
5.9
+50
C = 20
F = 142
EXC. = 29.6 C.Y.
EMB. = 314.8 C.Y.

28.07
26.7
+50
C = 55
F = 71
EXC. = 86.1 C.Y.
EMB. = 300.0 C.Y.

8.11
4.1
108+00
C = 12
F = 163
EXC. = 0 C.Y.
EMB. = 282.4 C.Y.

16.13
14.2
106+00
C = 31
F = 233
EXC. = 59.1 C.Y.
EMB. = 484.3 C.Y.

7.80
4.5
+50
C = 10
F = 140
EXC. = 8.3
EMB. = 240.7

16.19
16.0
+50
C = 20
F = 270
EXC. = 38.9 C.Y.
EMB. = 434.4 C.Y.

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

402.23

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	
HAWAII	HAW	25B	1937	24	32

FINAL SURVEY	BY	DATE
SURVEYED	H. Padgett	1937
PLOTTED	H. Padgett	"
NOTE BOOK	J. Padgett	"
TEMPLATE		
AREAS		
AREAS CHECKED	R. Cassidy	7-37

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		7-37
TEMPLATE		
AREAS		
AREAS CHECKED		

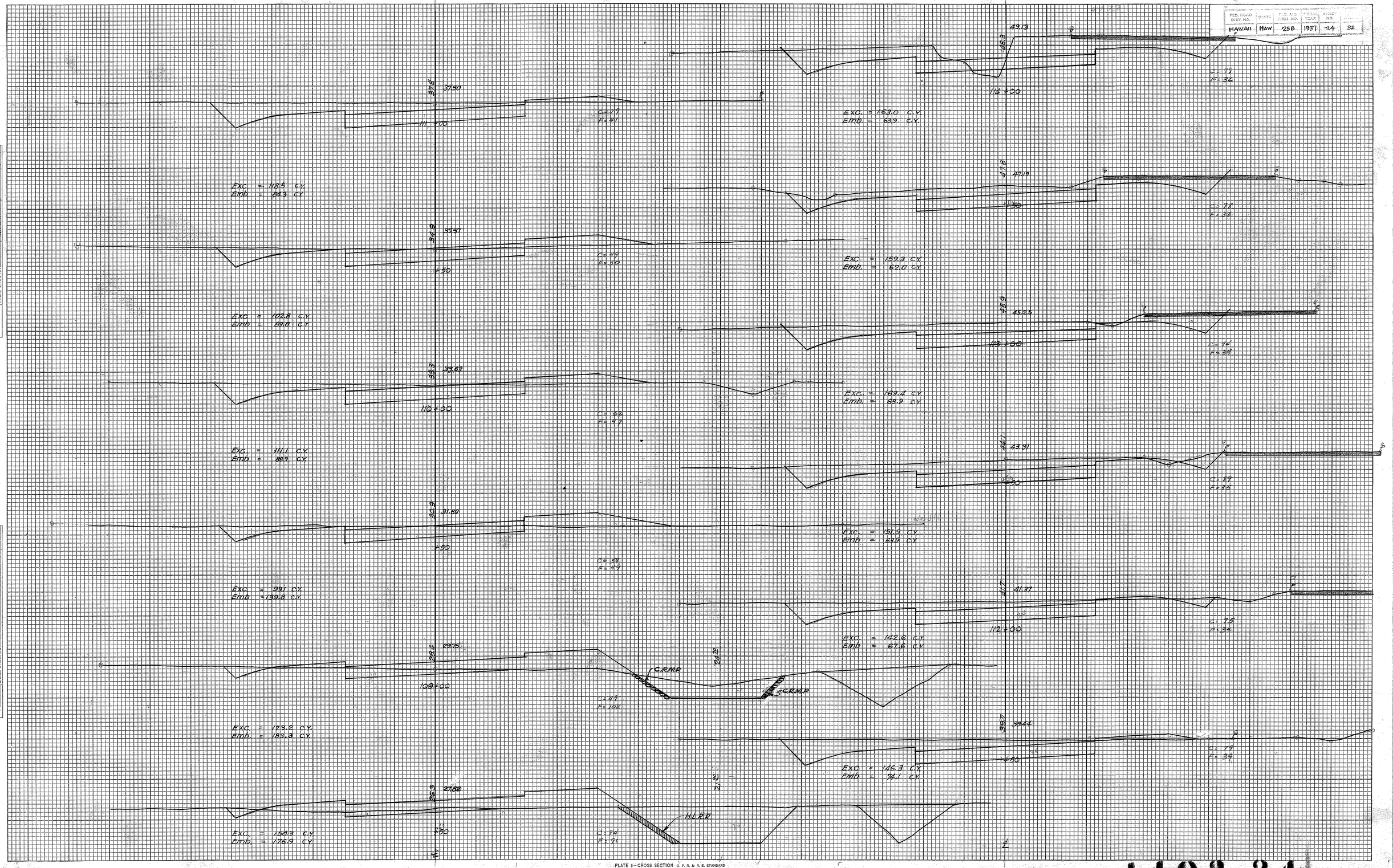


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

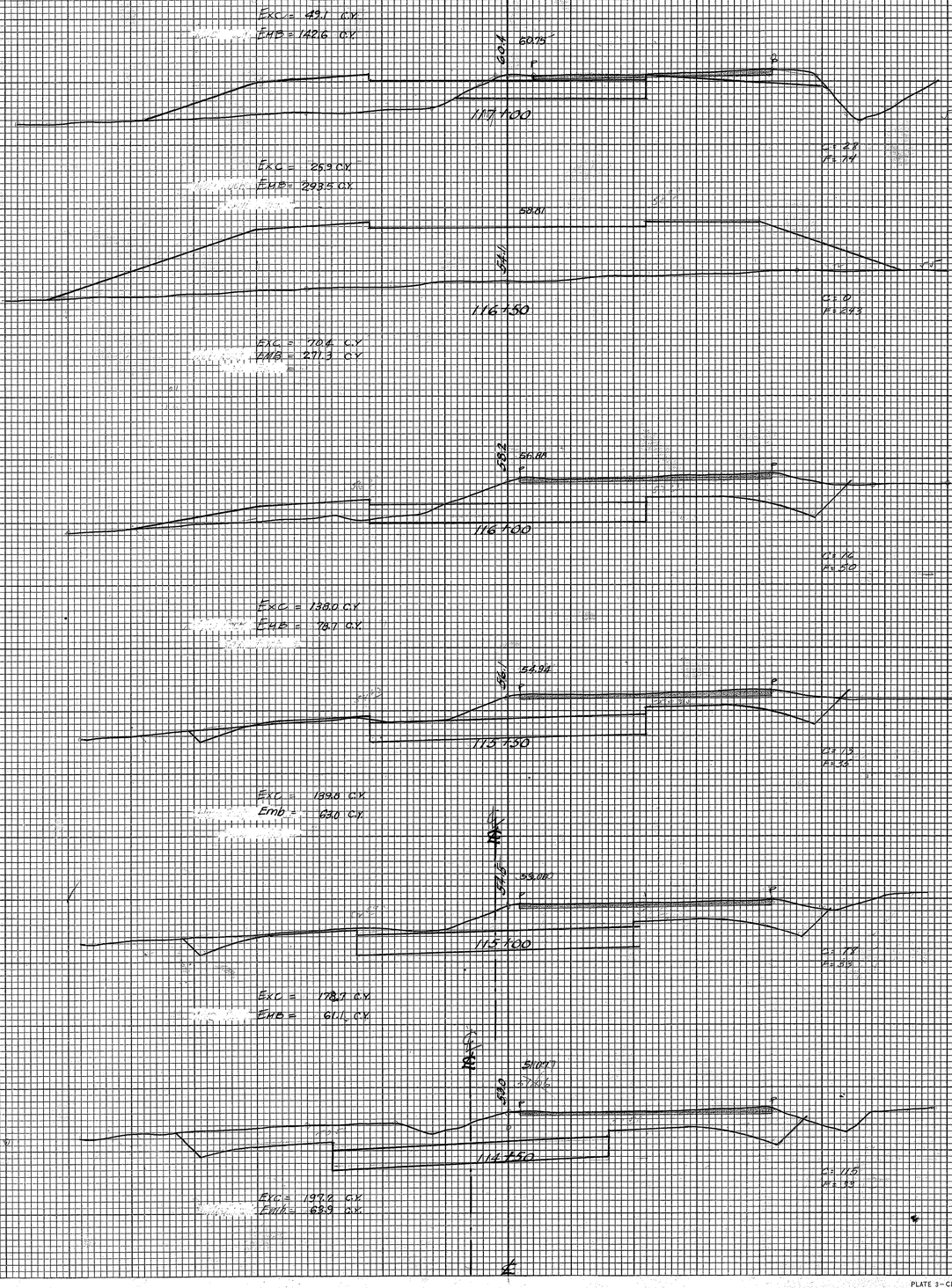
KEUFFEL & ESSER CO., NEW YORK.

4402.24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	258	1937	25	32

FINAL SURVEY		BY	DATE
	SURVEYED		
	COMPUTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	COMPUTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		



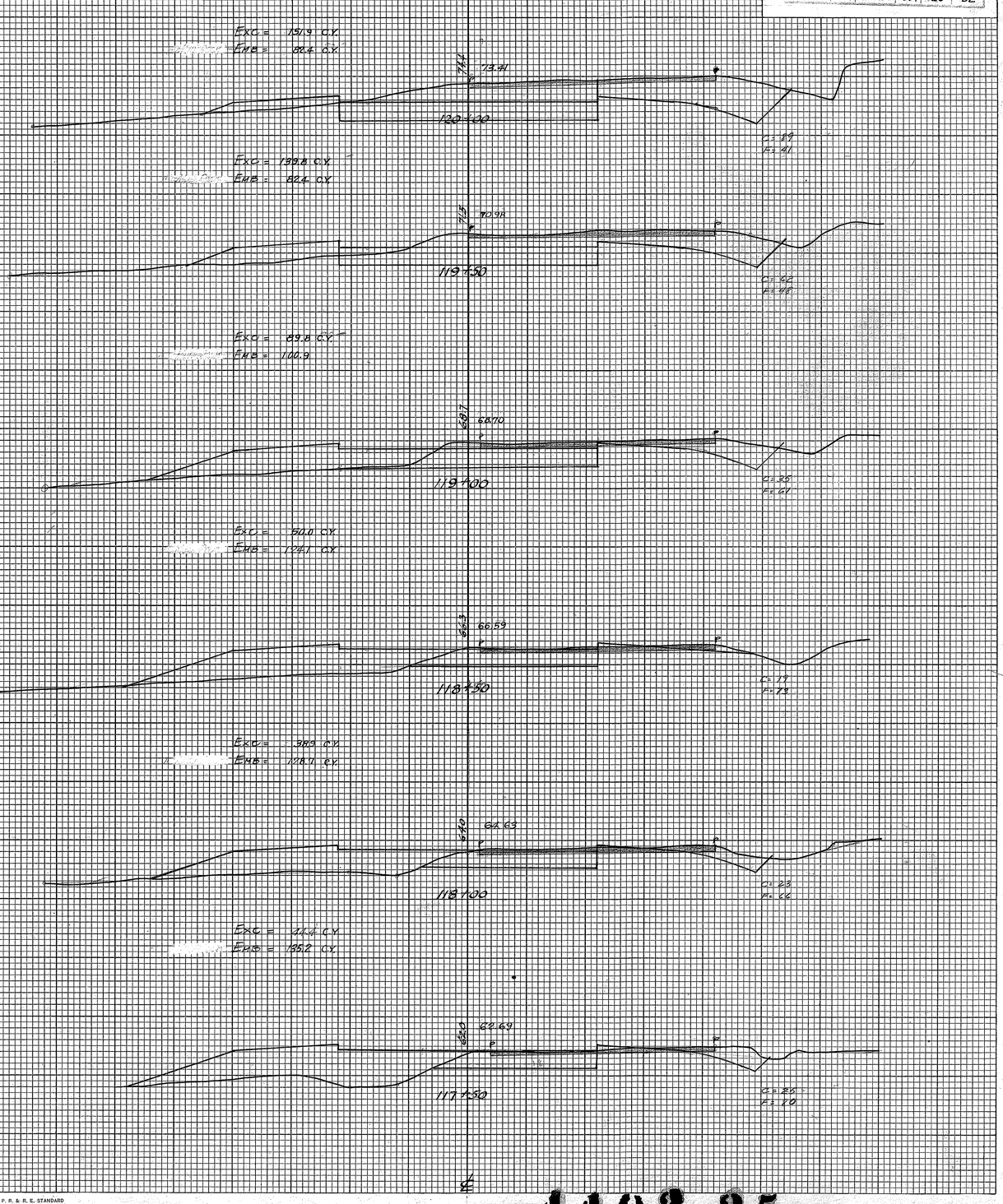


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

4402.25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	
HAWAII	HAW	25B	1957	26	32

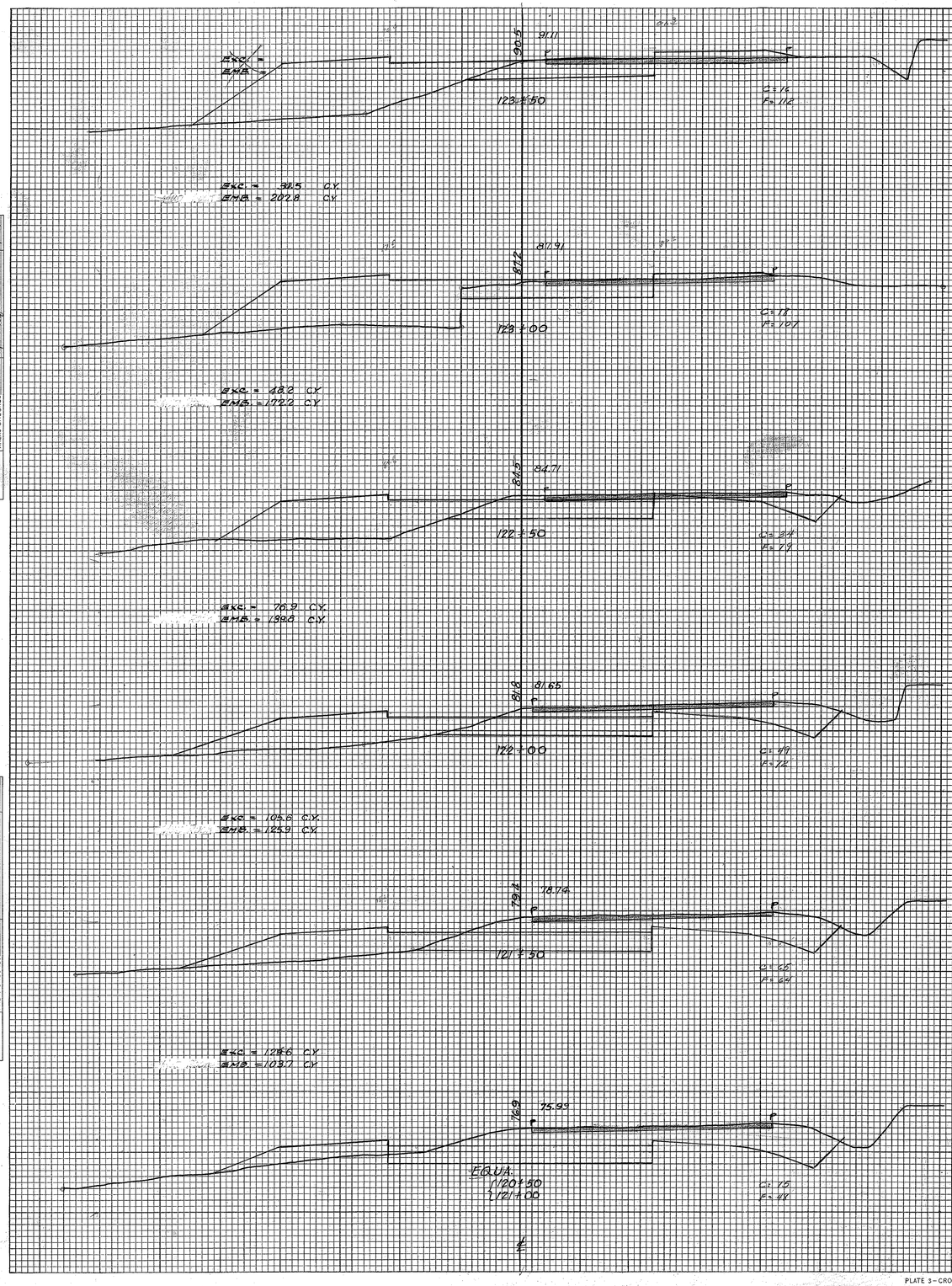
FINAL SURVEY

	BY	DATE
SURVEYED	J. Padgett	4-57
PLOTTED	K. Kobayashi	6-57
TRACED	"	"
AREAS	"	"
AREAS CHECKED		7-57

NOTE BOOK
NO.

ORIGINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TRACED		
AREAS		
AREAS CHECKED		



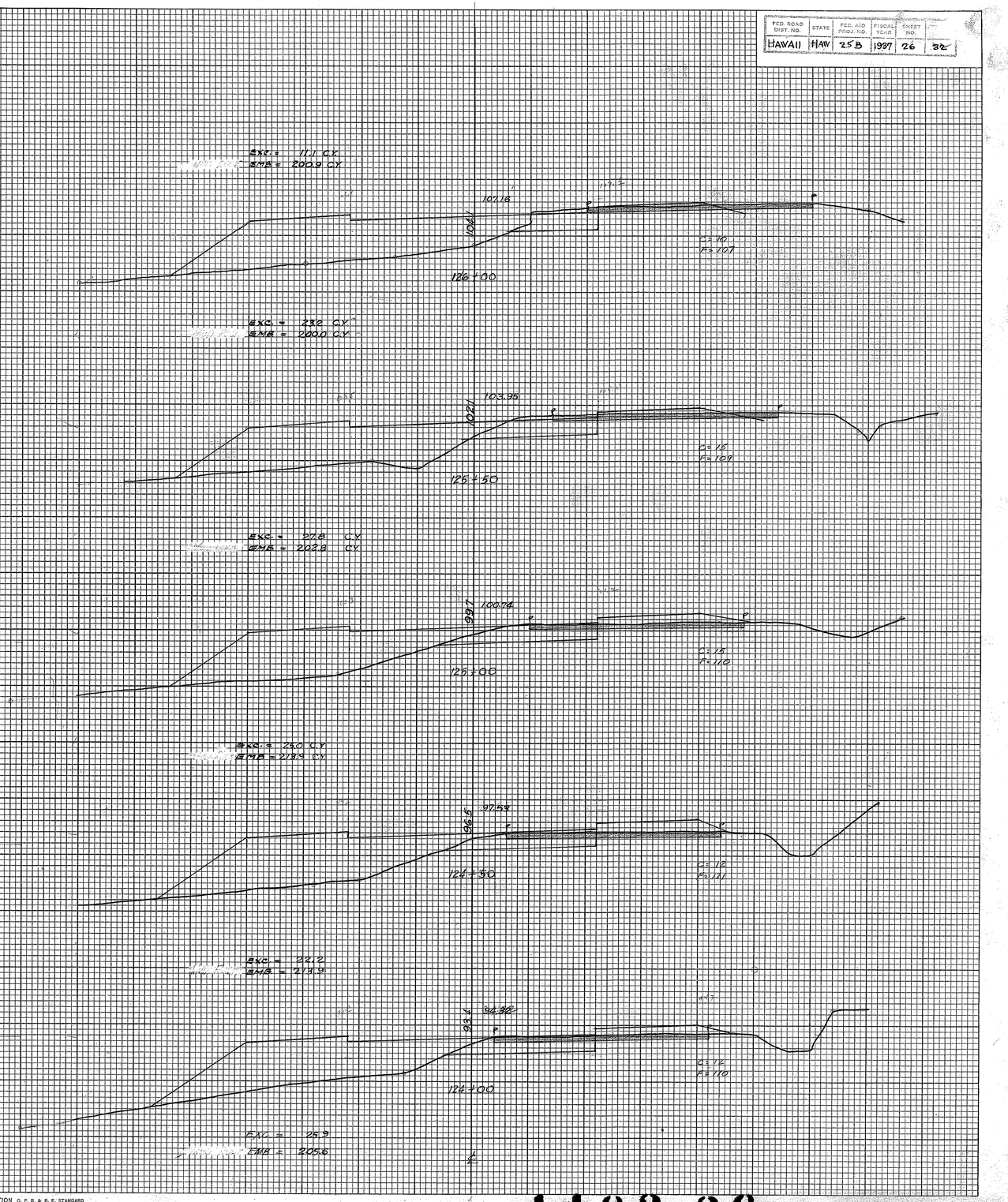


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25B	1997	27	32

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

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

EXC. = 86.1 C.Y.
EMB. = 64.8 C.Y.
126.41
123.7
129+00
C: 54
F: 41

EXC. = 92.6 C.Y.
EMB. = 92.6 C.Y.
129.20
126.1
128+50
C: 96
F: 57

EXC. = 52.8 C.Y.
EMB. = 14.4 C.Y.
119.99
116.7
128+00
C: 11
F: 97

EXC. = 13.9 C.Y.
EMB. = 230.6 C.Y.
116.78
113.0
127+50
C: 4
F: 152

EXC. = 6.5 C.Y.
EMB. = 259.3 C.Y.
113.57
110.0
127+00
C: 3
F: 129

EXC. = 7.6 C.Y.
EMB. = 220.4 C.Y.
110.36
107.2
126+50
C: 2
F: 110

EXC. = 261.1 C.Y.
EMB. = 4.6 C.Y.
142.45
143.1
131+50
C: 113
F: 5

EXC. = 143.5 C.Y.
EMB. = 21.8 C.Y.
139.24
140.0
131+00
C: 42
F: 20

EXC. = 102.8 C.Y.
EMB. = 19.4 C.Y.
136.09
137.0
130+50
C: 69
F: 1

EXC. = 114.5 C.Y.
EMB. = 0.9 C.Y.
132.82
133.9
130+00
C: 53
F: 0

EXC. = 87.0 C.Y.
EMB. = 26.9 C.Y.
129.62
130.6
129+50
C: 37
F: 19

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.27

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25B	1937	28	32

FINAL SURVEY — NOTE BOOK: — NO.: — SURVEYED: J. Hodgett — PLOTTED: H. Hosmer — TEMPLATE: J. Padgett — AREAS CALCULATED: (illegible) — AREAS CHECKED: — DATE: 6-15-37, 6-17, " ", 7-37 — BY:

ORIGINAL SURVEY — NOTE BOOK: — NO.: — SURVEYED: — PLOTTED: — TEMPLATE: — AREAS CALCULATED: — AREAS CHECKED: — DATE: — BY:

Sta 134+00
Exc = 998.0 C.Y.
Emb = 5.6 C.Y.
C: 474
F: 6
158.1
167.74

Sta 133+50
Exc = 814.8 C.Y.
Emb = 14.8 C.Y.
C: 406
F: 10
155.09
161.3

Sta 133+00
Exc = 625.0 C.Y.
Emb = 16.7 C.Y.
C: 224
F: 9
152.08
150.5

Sta 132+50
Exc = 384.3 C.Y.
Emb = 15.7 C.Y.
C: 146
F: 9
148.87
146.6

Sta 132+00
Exc = 291.7 C.Y.
Emb = 10.2 C.Y.
C: 169
F: 2
145.66
146.0

Sta 137+00
Exc = 1107.4 C.Y.
Emb = 0.9 C.Y.
C: 613
F: 0
176.16
184.7

Sta 136+50
Exc = 1280.5 C.Y.
Emb = 0 C.Y.
C: 710
F: 0
173.15
184.5

Sta 136+00
Exc = 1278.7 C.Y.
Emb = 0 C.Y.
C: 611
F: 0
170.14
181.4

Sta 135+50
Exc = 1224.1 C.Y.
Emb = 0 C.Y.
C: 631
F: 0
167.13
176.9

Sta 135+00
Exc = 1162.0 C.Y.
Emb = 0 C.Y.
C: 604
F: 0
164.12
173.6

Sta 134+50
Exc = 1108.9 C.Y.
Emb = 0 C.Y.
C: 593
F: 0
161.11
170.2

PLATE 3 — CROSS SECTION O. P. R. & R. E. STANDARD
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	258	1937	29	32

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

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

137+00
EXC. = 439.8 C.Y.
EMB. = 25.0 C.Y.
C = 31.4
F = 11
188.20
183.4

138+00
EXC. = 640.7 C.Y.
EMB. = 16.7 C.Y.
C = 31.0
F = 7
185.19
193.0

138+50
EXC. = 716.7 C.Y.
EMB. = 31.5 C.Y.
C = 31.5
F = 17
182.18
192.2

139+00
EXC. = 850.9 C.Y.
EMB. = 25.9 C.Y.
C = 52.3
F = 1
179.17
188.1

141+00
EXC. = 183.3 C.Y.
EMB. = 38.9 C.Y.
C = 17.2
F = 2.4
203.25
203.3

141+50
EXC. = 196.3
EMB. = 12.6
C = 14.0
F = 2.2
200.24
200.5

140+00
EXC. = 211.1 C.Y.
EMB. = 33.8 C.Y.
C = 15.4
F = 4.1
197.23
197.3

140+50
EXC. = 315.7 C.Y.
EMB. = 38.0 C.Y.
C = 11.9
F = 2.0
194.22
194.2

140+00
EXC. = 320.4 C.Y.
EMB. = 33.9 C.Y.
C = 16.1
F = 1.6
191.21
191.1

137+50

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW 25 B	1937	30	32

FINAL SURVEY		BY	DATE
	SURVEYED	H. L. Faber III	6-37
	PLOTTED	H. L. Faber III	6-37
NOTE BOOK	TEMPLATE	J. J. Rapoli	6-37
	AREAS	J. J. Rapoli	6-37
NO.	AREAS CHECKED	[illegible]	7-37

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

Exc = 2813.7 C.Y.
Emb = 321.7 C.Y.

218.06
2201
144+00

Exc = 2370 C.Y.
Emb = 616 C.Y.

C=132
F=27

215.26
2144.3
143+50

Exc = 2241 C.Y.
Emb = 657 C.Y.

C=124
F=46

212.28
2112.3
143+00

Exc = 2117.8 C.Y.
Emb = 98.9 C.Y.

C=77
F=24

209.27
2092.2
142+50

Exc = 2250 C.Y.
Emb = 324 C.Y.

C=111
F=11

206.26
2062.3
142+00

C=122
F=19

Exc = 5597 C.Y.
Emb = 0

230.07
2339
147+00

Exc = 4389 C.Y.
Emb = 0

C=247
F=0

228.64
2327
146+50

Exc = 5037 C.Y.
Emb = 0

C=227
F=0

226.99
2316
146+00

Exc = 598.2 C.Y.
Emb = 56 C.Y.

C=317
F=10

228.10
2284
145+50

Exc = 451.9 C.Y.
Emb = 1.9 C.Y.

C=329 (Forward
F=6)
C=253 (Back
F=0)

222.98
2261
145+00

Exc = 379.6 C.Y.
Emb = 185 C.Y.

C=235
F=2

220.64
2222
144+50

C=179
F=19

Scale Sheet # 30-A

Back
Forward

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

402.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25B	1937	30A	32

Revised 6/7/37

FINAL SURVEY

	DATE
SURVEYED	4-37
PLOTTED	6-37
TEMPLATE	6-37
AREAS	6-37
AREAS CHECKED	7-1

NOTE BOOK NO. 1 Hayashi 1 Hayashi 1 Hayashi

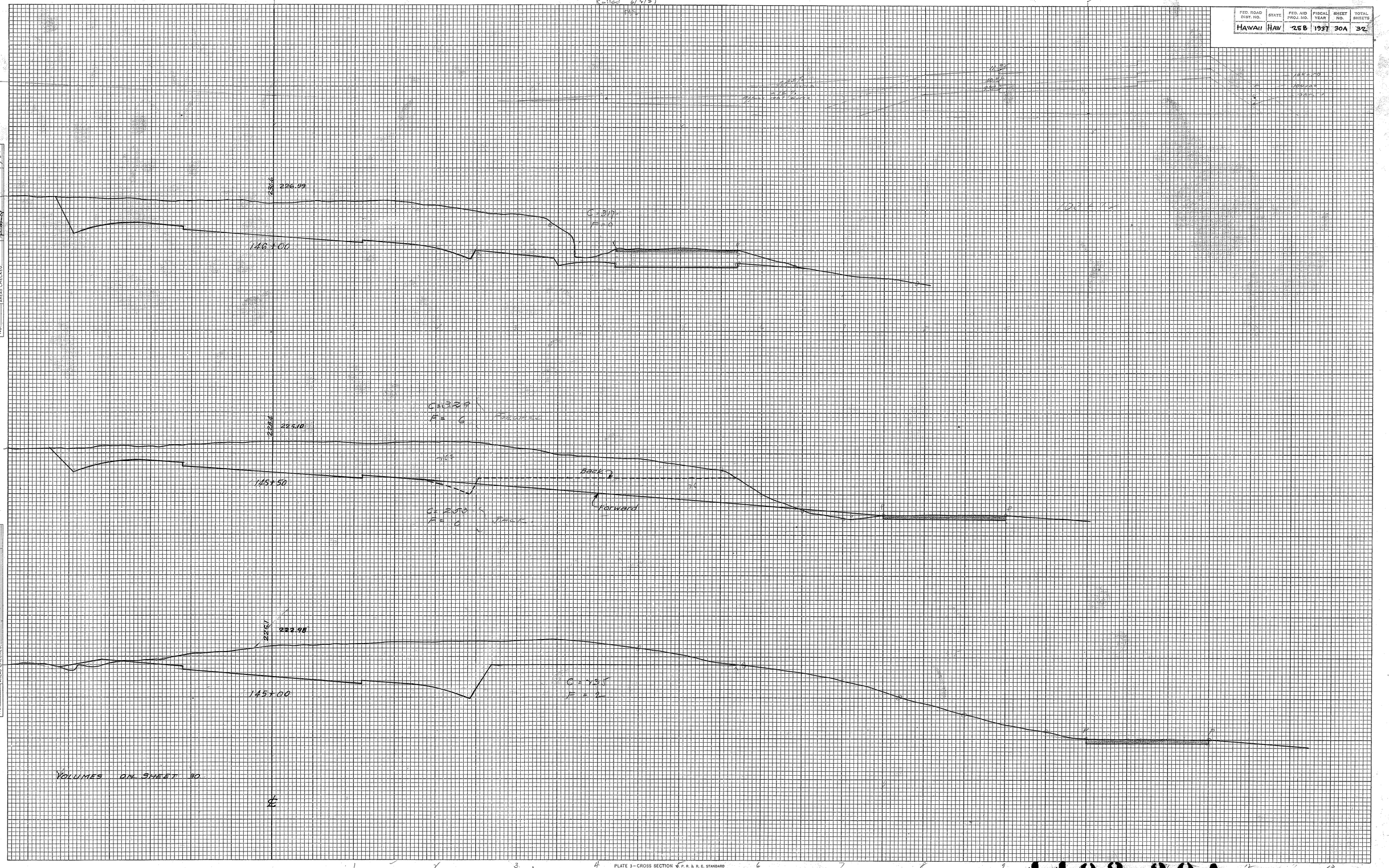
BY

ORIGINAL SURVEY

NOTE BOOK NO.

BY DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED



VOLUMES ON SHEET 30

PLATE 3—CROSS SECTION U. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

4402.30A

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25B	1937	31	32

FINAL SURVEY	BY	DATE
SURVEYED	H. Dodge	4-37
PLOTTED	H. Dodge	4-37
TEMPLATE	J.L. Bassett	4-37
AREAS	Hy	6-37
AREAS CHECKED	Brandt	7-37
NOTE BOOK		
NO.		

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

EXC. = 1447.0 C.Y.
EMB. = 0

2444
233.49
P
C
P
149+00

EXC. = 1263.9 C.Y.
EMB. = 0 C.Y.

C = 235
I = 0

2433
232.96
P
C
P
148+50

EXC. = 1036.1 C.Y.
EMB. = 0

C = 230
I = 0

241.6
232.17
P
C
P
148+00

EXC. = 777.8 C.Y.
EMB. = 0

C = 489
I = 0

238.5
231.6
P
C
P
147+50

C = 351
I = 0

EXC. = 945.4 C.Y.
EMB. = 0

2441.7
233.23
P
C
P
151+00

C = 603
I = 0

EXC. = 1045.3 C.Y.
EMB. = 0 C.Y.

2430
233.60
P
C
P
150+50

EXC. = 1420.2 C.Y.
EMB. = 0

C = 142
I = 0

2439.7
233.61
P
C
P
150+00

EXC. = 1562.8 C.Y.
EMB. = 0

C = 194
I = 0

2443
233.75
P
C
P
149+50

C = 826
I = 0

PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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HAWAII	HAW	25 B	1937	32	32

FINAL SURVEY		DATE	BY
	SURVEYED	6-37	H.L. Bartlett
	PLOTTED	6-37	H. Furneaux
	TEMPLATE	6-25-37	J.J. Sulpeth
NOTE BOOK	AREAS	7-37	
NO.	AREAS CHECKED	7-37	

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

Exc. = 21.3 C.Y.
Emb. = 677.4 C.Y.
22.87
227.78
153+50
Exc. = 55.6 C.Y.
Emb. = 830.6 C.Y.
BENCH
C=12
F=9.20
23.10
229.39
153+00
Exc. = 109.3 C.Y.
Emb. = 605.0 C.Y.
BENCH
C=9.42
F=4.77
23.40
230.88
152+50
Exc. = 275.9 C.Y.
Emb. = 257.4 C.Y.
BENCH
C=7.6
F=4.52
23.68
231.75
152+00
Exc. = 592.6 C.Y.
Emb. = 24.1 C.Y.
C=6.12
F=2.26
23.96
232.64
151+50
C=9.18
F=5.10

Exc. = 3.2 C.Y.
Emb. = 1.9 C.Y.
24.68
216.70
156+00
Exc. = 83.3 C.Y.
Emb. = 40.7 C.Y.
24.93
219.20
155+50
C=5
F=3.1
Exc. = 65.6 C.Y.
Emb. = 238.9 C.Y.
22.17
221.62
155+00
C=9
F=4.95
Exc. = 7.4 C.Y.
Emb. = 186.8 C.Y.
22.42
224.00
154+50
Existing Curb
New Curb
C.C.M. Paving under option
22.62
225.99
154+00
C=7
F=3.75
BENCH
C=5
F=3.12

PLATE 3 - CROSS SECTION - D.P.R. & D.E. STANDARD

44,032