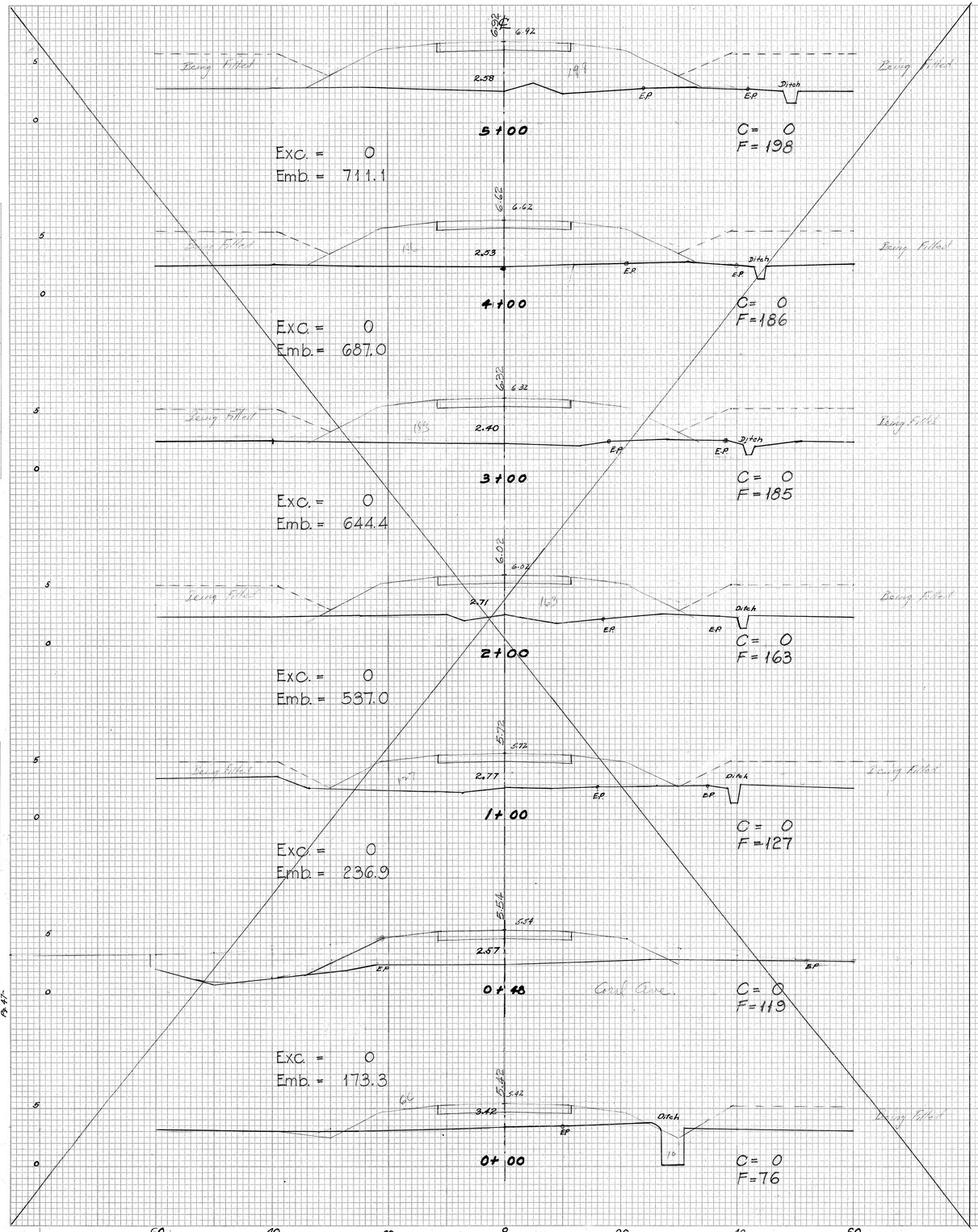
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR (3)	1944	35	81

Revised: April 30, 1945

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS, AREAS CHECKED, NO.

ORIGINAL SURVEY — BY L. H. T. F. G. — DATE 6 Apr. 1944 — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK 104-8 Pg 47, AREAS, AREAS CHECKED, NO.



NOTE: Fill Slopes are drawn at 4:1 slope and Quantities are from sections as drawn.
Payment will be made on quantities as placed.

Scale: Horiz. 60/in. 10 ft.
Vert. : 1in. 5 ft

PLATE 3 - CROSS SECTION U. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

5151.35

Sheet 1 of 81 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DANR 148(3)	1944	36	81

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO.

ORIGINAL SURVEY — BY: A. H. T. F.G.; DATE: 6/44, 7/44; NOTE BOOK, NO. 104-B, Pg. 30-32

Revised: April 30, 1945

17+00 — ℄ 12.00; 10.55; EP; EP; Ditch; Fence
Exc. = 0.0
Emb. = 146.3
C = 0
F = 39 ✓

16+00 — 11.70; Fence; 10.13; Ditch; EP; EP; Fence
Exc. = 0.0
Emb. = 137.0
C = 0
F = 40 ✓

15+00 — 11.40; Hedge; 10.11; Ditch; RD; EP; Fence
Exc. = 0.0
Emb. = 105.6
C = 0
F = 34 ✓

14+00 — 11.10; 10.09; Ditch; EP; EP; Fence
Exc. = 0.0
Emb. = 168.5
C = 0
F = 23 ✓

13+00 — 10.80; 9.80; EP; EP; Ditch; Fence
Exc. = 0.0
Emb. = 192.6
C = 0
F = 68 ✓

12+00 — 10.50; 9.18; EP; EP; Ditch; Fence
Exc. = 0.0
Emb. = 88.7
C = 0
F = 36 ✓

11+43 — 10.33; 8.43; Ditch; Ditch; EP; EP; Fence
Exc. = 0.0
Emb. = 65.3
C = 0
F = 48 ✓

11+00 — 10.20; 8.87; Fence
Exc. = 0.0
Emb. = 71.3
C = 0
F = 34 ✓

22+74 — ℄ 13.72; 12.6; TB; BB; EP; EP; along Pavt; End Pavt
Exc. = 0.0
Emb. = 26.0
C = 0
F = 23 ✓

22+00 — 13.50; 12.05; TB; BB; EP; EP; Ditch
Exc. = 0.0
Emb. = 42.6
C = 0
F = 50 ✓

21+75 — 13.42; 12.03; TB; BB; EP; EP; Paved Driveway
Exc. = 0.0
Emb. = 138.9
C = 0
F = 42 ✓

21+00 — 13.20; 11.65; TB; BB; EP; EP; Ditch; Hedge
Exc. = 0.0
Emb. = 93.2
C = 0
F = 58 ✓

20+32 — 13.00; 11.91; TB; BB; EP; EP; along Paved Driveway
Exc. = 0.0
Emb. = 23.1
C = 0
F = 16 ✓

20+00 — 12.90; 11.75; TB; BB; EP; EP; Ditch
Exc. = 0.0
Emb. = 87.0
C = 0
F = 23 ✓

19+00 — 12.60; 11.30; TB; BB; EP; EP; Ditch
Exc. = 0.0
Emb. = 116.7
C = 0
F = 24 ✓

18+00 — 12.30; 11.15; EP; EP; Ditch
Exc. = 0.0
Emb. = 85.1
C = 0
F = 39 ✓

17+44 — 12.13; 10.7; EP; EP; Ditch; Fence
Exc. = 0.0
Emb. = 66.8
C = 0
F = 43 ✓

Scale: Horiz. 1in = 10 ft. Vert. 1in = 5 ft.

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A. 34191-3

5151.36

(36)

Sheet 2 of Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR 14 (2)	1944	37	81

Revised: April 30, 1945

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

ORIGINAL SURVEY — NOTE BOOK NO. 104-B, P.52 — SURVEYED 5/44 — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY L. H. T. F. G.

27+00 — 15.00 — 13.10 — EP EP EP — Ditch
Exc. = 0.0 Emb. = 80.9 — C = 0 F = 56

26+54 — 14.86 — 13.41 — EP — Coral Pit — Pavit — & Paved driveway
Exc. = 0.0 Emb. = 50.5 — C = 0 F = 39

26+25 — 14.78 — 13.22 — EP EP EP — Ditch — Hedge
Exc. = 0.0 Emb. = 45.7 — C = 0 F = 55

26+00 — 14.70 — 13.36 — Pavit EP EP — along Paved Driveway
Exc. = 0.0 Emb. = 82.4 — C = 0 F = 44

25+50 — 14.55 — 13.12 — EP EP — Ditch
Exc. = 0.0 Emb. = 80.6 — C = 0 F = 45

25+00 — 14.40 — 13.13 — EP ER — Paved Road — Ditch
Exc. = 0.0 Emb. = 41.3 — C = 0 F = 42

24+64 — 14.29 — 13.22 — along Ashley
Exc. = 0.0 Emb. = 50.4 — C = 0 F = 20

24+24 — 14.17 — 12.60 — EP EP — Ditch — Hedge
Exc. = 0.0 Emb. = 42.7 — C = 0 F = 48

24+00 — 14.10 — 12.50 — EP EP — Ditch — Hedge
Exc. = 0.0 Emb. = 187.0 — C = 0 F = 48

23+00 — 13.80 — 12.24 — BB TB EP EP — Ditch
Exc. = 0.0 Emb. = 36.6 — C = 0 F = 53

PLATE 3 - CROSS SECTIONS OF F. A. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

32+50 — 14.46 — 12.41 — EP EP — Ditch
Exc. = 0.0 Emb. = 103.7 — C = 0 F = 79

32+14 — 14.06 — 12.84 — EP EP — along edge driveway
Exc. = 0.0 Emb. = 35.8 — C = 0 F = 73

32+00 — 14.72 — 12.89 — Hedge EP EP — Ditch
Exc. = 0.0 Emb. = 75.5 — C = 0 F = 65

31+66 — 14.88 — 13.11 — ER EP EP — Ditch — EP EP
Exc. = 0.0 Emb. = 86.1 — C = 0 F = 55

31+35 — 15.00 — 13.58 — ER — along Palm Ave
Exc. = 0.0 Emb. = 95.9 — C = 0 F = 95

31+00 — 15.12 — 13.56 — EP EP — Ditch — EP EP — Hedge — driveway
Exc. = 0.0 Emb. = 200.0 — C = 0 F = 53

30+00 — 15.35 — 13.87 — Hedge EP EP — Ditch — ER — On Coral driveway
Exc. = 0.0 Emb. = 213.0 — C = 0 F = 55

29+00 — 15.40 — 13.73 — EP EP — Ditch — EP EP — Hedge
Exc. = 0.0 Emb. = 235.2 — C = 0 F = 60

28+00 — 15.28 — 13.50 — EP EP — Ditch — EP EP
Exc. = 0.0 Emb. = 227.8 — C = 0 F = 67

5151.37

(37)

Sheet 3 of 81 Sheets

Deleted 38+15 ±

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAW 811	HAW.	DA-NLG 1A (2)	1944	38	81

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

ORIGINAL SURVEY — NOTE BOOK — NO. 1945 — SURVEYED — PLOTTED — TEMPLATE — PROFILES — AREAS CHECKED — BY L.H. E.N. — DATE 6/44 7/44

Revised: April 30, 1945

℄

35+14

Exc. = 0.0
Emb. = 43.8

along Fence rt.
12.57
10.74
EP EP Ditch
C = 0
F = 84

35+00

Exc. = 0.0
Emb. = 158.3

12.67
10.74
EP EP Ditch
C = 0
F = 85

34+50

Exc. = 0.0
Emb. = 160.2

13.05
11.19
EP EP Ditch
C = 0
F = 86

34+00

Exc. = 0.0
Emb. = 157.4

13.42
11.39
EP EP Ditch
C = 0
F = 87

33+50

Exc. = 0.0
Emb. = 160.2

Hedge
13.80
11.69
EP EP Ditch
C = 0
F = 89

33+00

Exc. = 0.0
Emb. = 156.5

S.W.
14.15
12.06
EP EP Ditch
C = 0
F = 90

39+00

Exc. = 0.0
Emb. = 237.0

10.55
8.28
EP EP Ditch Fence
C = 0
F = 73

38+00

Exc. = 0.0
Emb. = 201.9

on Part Waipuna
10.72
8.85
EP EP Ditch Fence
C = 0
F = 55

37+93.74

Exc. = 0.0
Emb. = 184.0

on Part Waipuna Rd.
10.74
8.85
EP EP Ditch Fence
C = 0
F = 54

37+00

Exc. = 0.0
Emb. = 218.5

11.20
9.43
EP EP Ditch Fence
C = 0
F = 52

36+00

Exc. = 0.0
Emb. = 114.8

11.92
10.14
EP EP Ditch Fence
C = 0
F = 66

35+50

Exc. = 0.0
Emb. = 94.7

Sidewalk
12.30
10.57
EP EP along Paved Roadway
C = 0
F = 58

PLATE 3 - CROSS SECTION - R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 84191-3

5151.38

(38)

Sheet 4 of 4 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NRE (4)(2)	1944	39	81

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

Revised: April 30, 1945

44+00

Exc. = 0.0
Emb. = 365.9

Railroad:
Exc. =
Emb. =

C = 0
F = 112

43+24.59

Exc. = 0.0
Emb. = 133.0

Railroad:
Exc. =
Emb. =

C = 0
F = 150

43+00

Exc. = 0.0
Emb. = 348.2

Railroad:
Exc. =
Emb. =

C = 0
F = 142

42+00

Exc. = 0.0
Emb. = 155.7

C = 0
F = 46

41+00

Exc. = 0.0
Emb. = 255.6

C = 0
F = 37

40+00

Exc. = 0.0
Emb. = 322.2

C = 0
F = 101

50+00

Exc. = 0.0
Emb. = 483.3

Railroad:
Exc. =
Emb. =

C = 0
F = 124

49+00

Exc. = 0.0
Emb. = 501.9

Railroad:
Exc. =
Emb. =

C = 0
F = 137

48+00

Exc. = 0.0
Emb. = 535.2

Railroad:
Exc. =
Emb. =

C = 0
F = 134

47+00

Exc. = 0.0
Emb. = 575.9

Railroad:
Exc. =
Emb. =

C = 0
F = 155

46+00

Exc. = 0.0
Emb. = 557.4

Railroad:
Exc. =
Emb. =

C = 0
F = 156

45+00

Exc. = 0.0
Emb. = 475.9

Railroad:
Exc. =
Emb. =

C = 0
F = 145

PLATE 3. CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 3419-13

5151.39

Sheet 5 of 11 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NF-14 (2)	1944	40	81

Revised: April 30, 1945

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK No. 104-B pg. 83-87-88 — BY L.H. L.N. — DATE 5/44

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK No. — BY — DATE

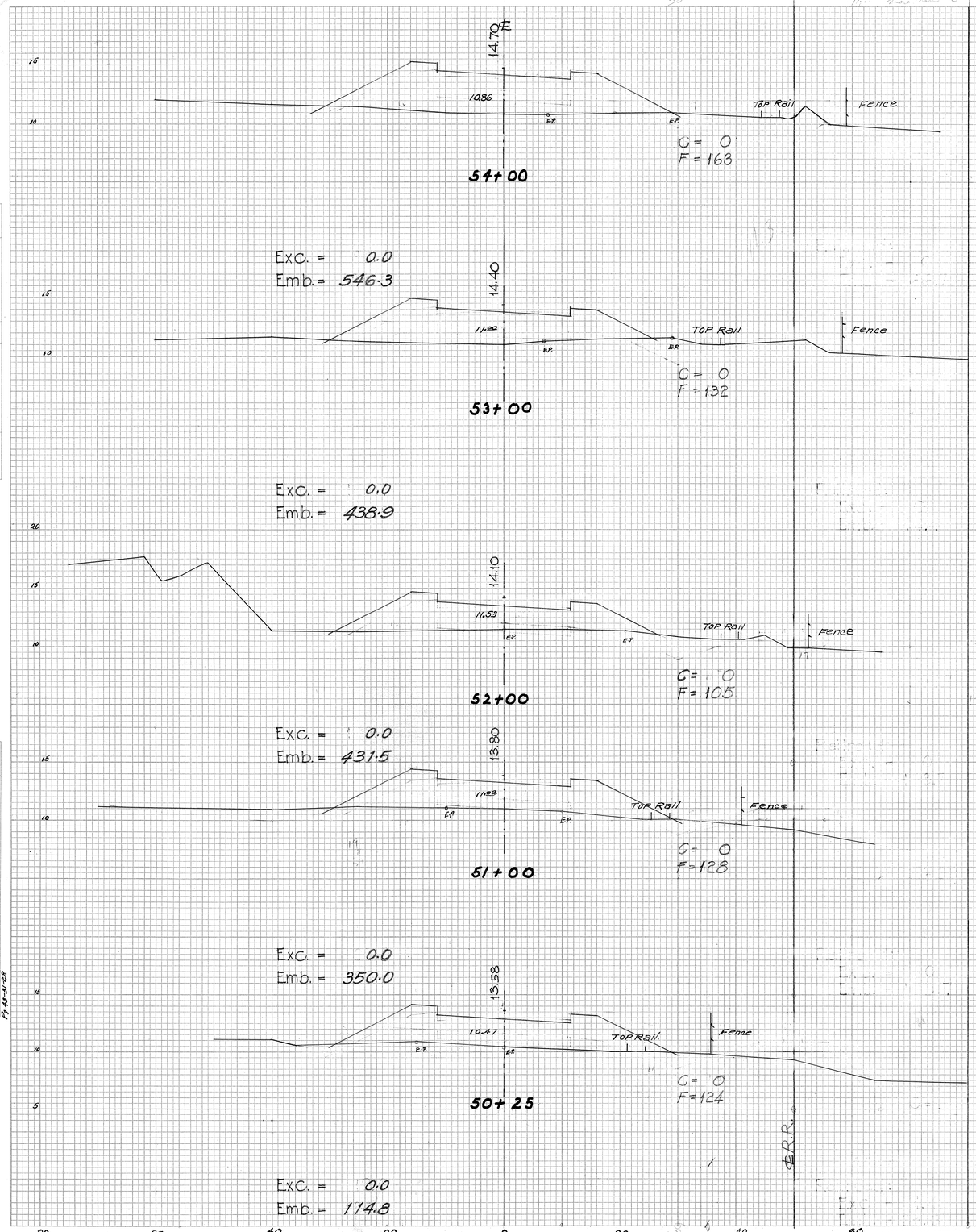


PLATE 3-CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34161-3

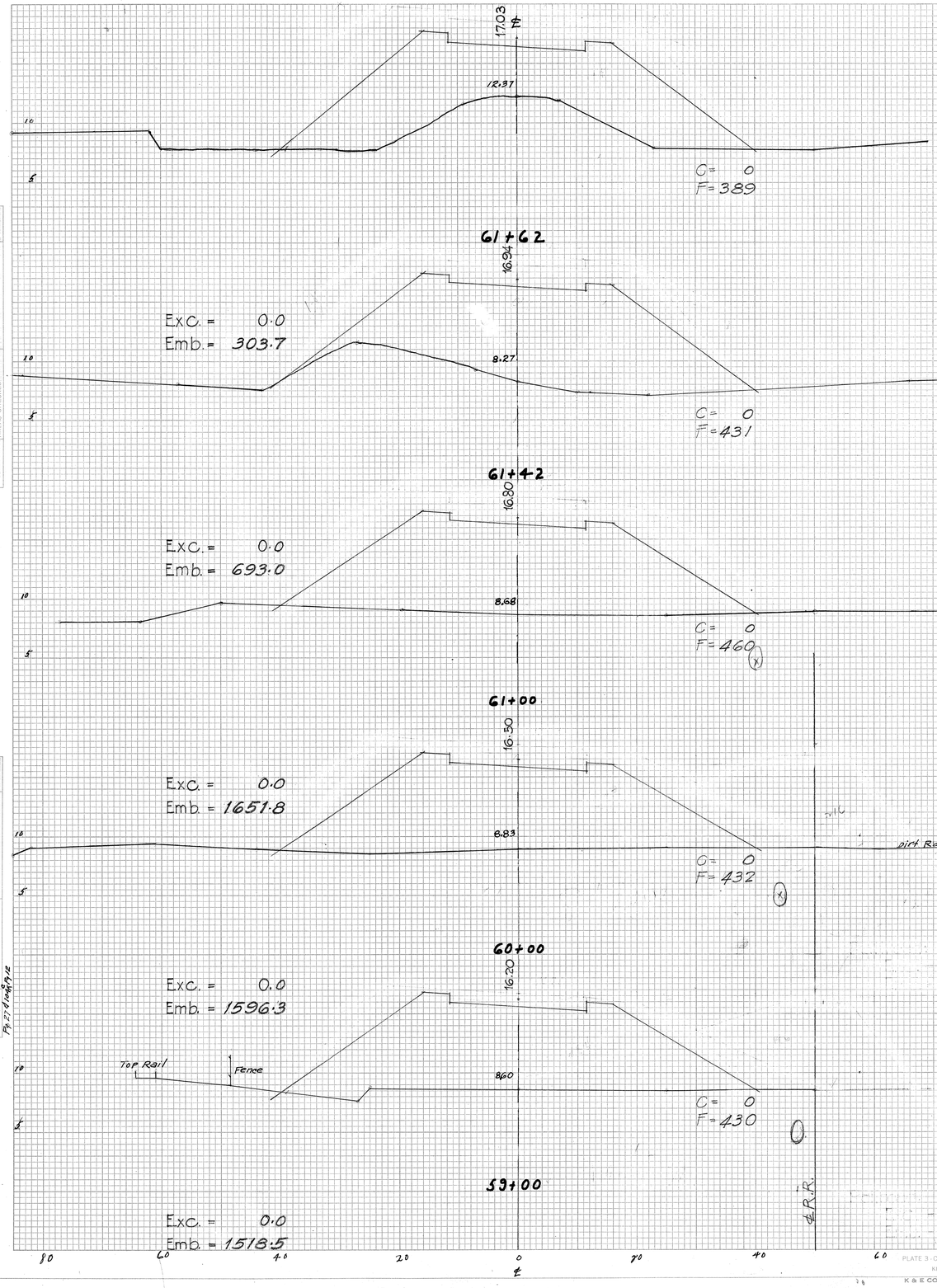
5151.40

Sheet 6 of 11 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	Haw.	DA-NR 14 (2)	1944	41	81

Detail Drawings R.E.

Special Section



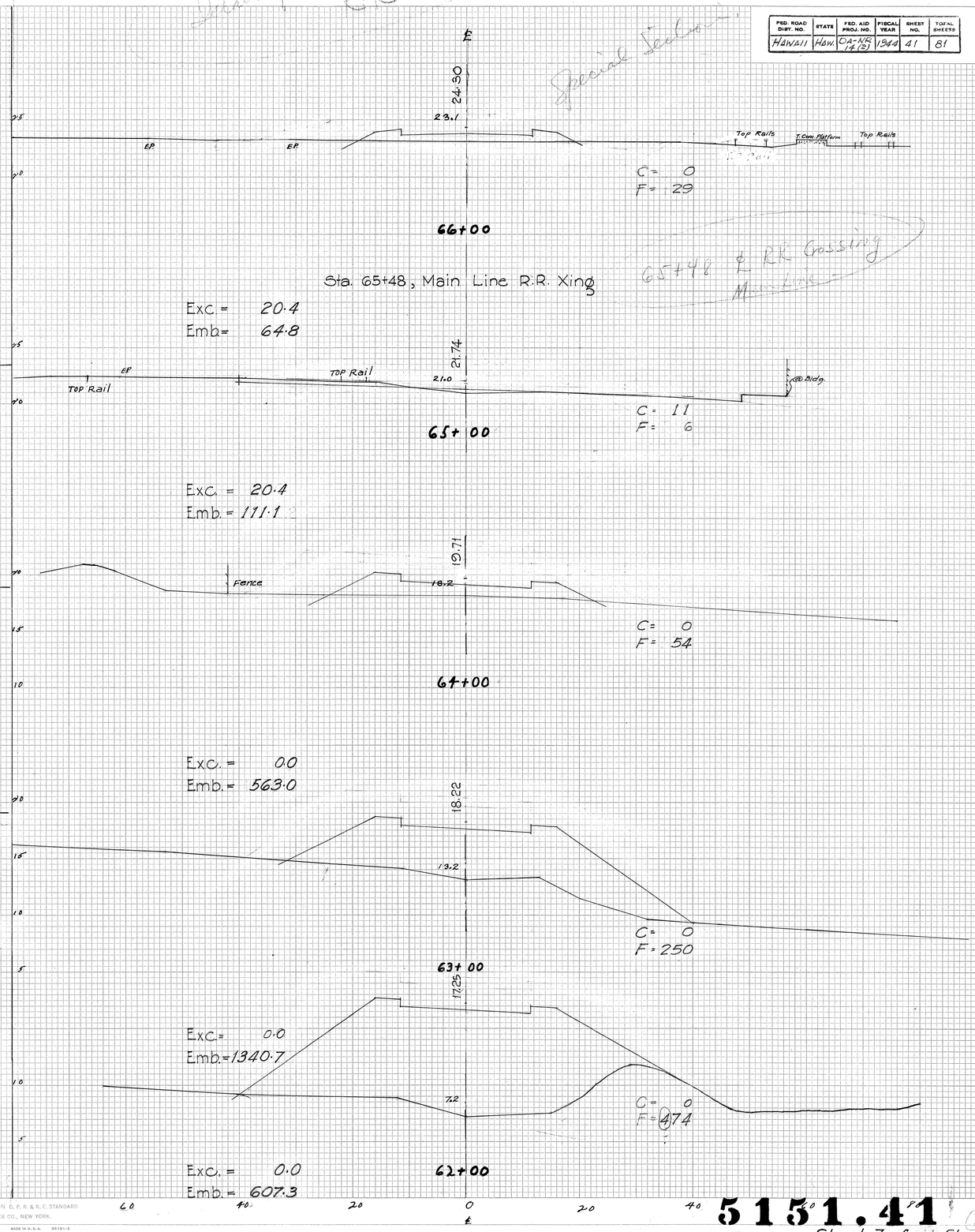


PLATE 3 - CROSS SECTION. C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A. 36191-3

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

ORIGINAL SURVEY — SURVEYED: 7/31/44, PLOTTED: 8/8/44, NOTE BOOK: 106-B, NO.: 14, BY: E.N., E.N., AREAS CHECKED

Revised: April 30, 1945

5151.41

Sheet 7 of 41 Sheets

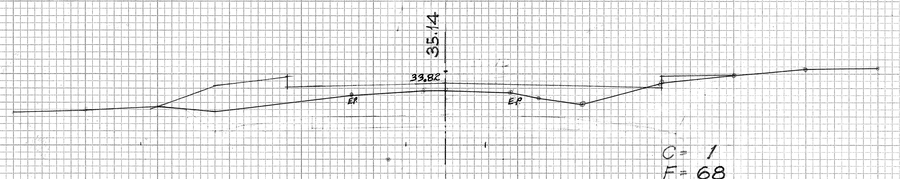
(7) (41)

PRD. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-A-HPE-(4)2	1944	42	81

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

ORIGINAL SURVEY — NOTE BOOK NO. 13 104-B P. 39 — SURVEYED 3/44 — PLOTTED 3/44 — TEMPLATE — AREAS — AREAS CHECKED — BY L.W. E.W.

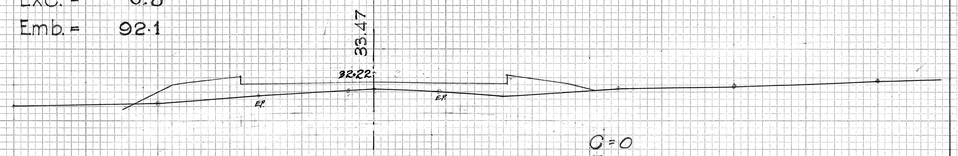
Revised: April 30, 1945



C = 1
F = 68

69 + 00

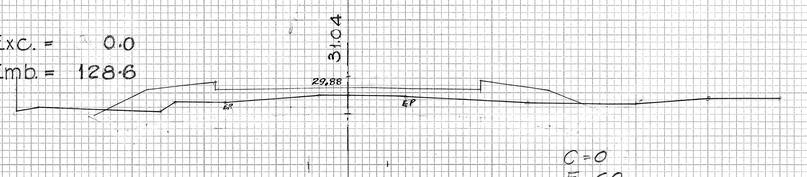
Exc. = 0.8
Emb. = 92.1



C = 0
F = 56

68 + 59.88 (Intersection 1st St & Lehua Ave)

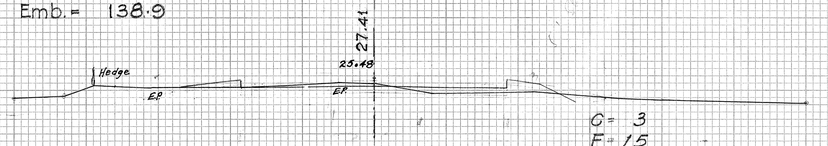
Exc. = 0.0
Emb. = 128.6



C = 0
F = 60

68 + 00

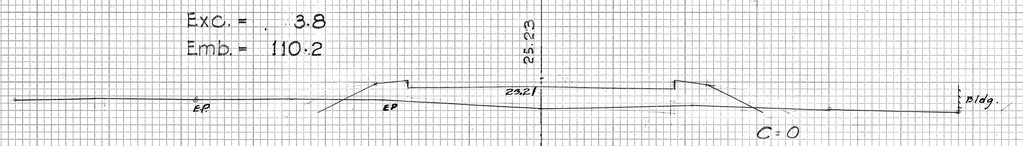
Exc. = 5.6
Emb. = 138.9



C = 3
F = 15

67 + 00

Exc. = 3.8
Emb. = 110.2

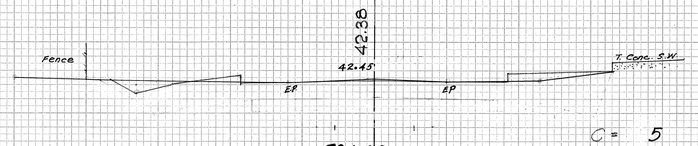


C = 0
F = 72

P.T. 66 + 31.62

Exc. = 0.0
Emb. = 59.1

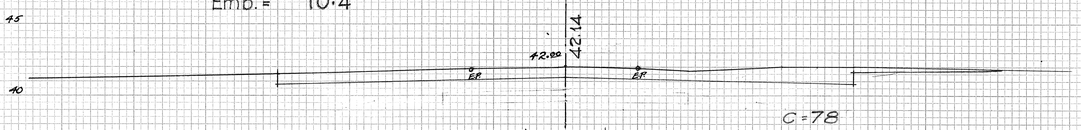
60 40 20 0 ℄ 20 40 60



C = 5
F = 7

73 + 00

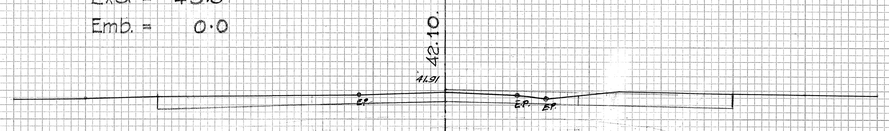
Exc. = 123.1
Emb. = 10.4



C = 78
F = 0

72 + 19.88 (Intersection 2nd St & Lehua Ave)

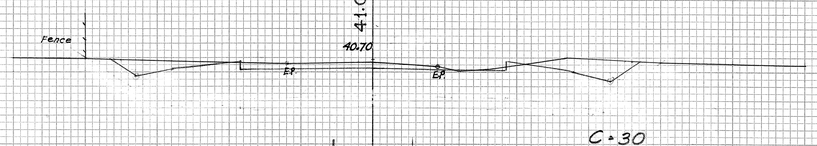
Exc. = 49.0
Emb. = 0.0



C = 60
F = 0

72 + 00

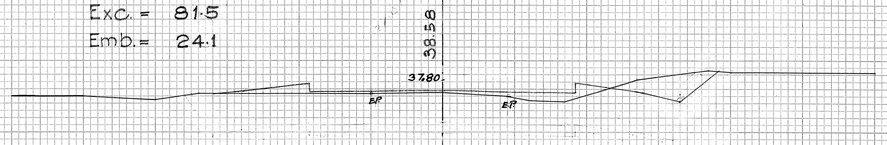
Exc. = 166.7
Emb. = 1.9



C = 30
F = 1

71 + 00

Exc. = 81.5
Emb. = 24.1



C = 14
F = 12

70 + 00

Exc. = 27.8
Emb. = 148.2

60 40 20 0 ℄ 20 40

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 348-3 MADE IN U.S.A. 34101-3

5151.42

(42) Sheet 8 of 11 Sheets

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR 14(2)	1944	43	81

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS, AREAS CHECKED, NO. 19,520 / 20, BY L.H.F./C.H., DATE 7/44 4/44

Revised: April 30, 1945

45
40

43.58
43.1
E.P. E.P.
C = 4
F = 14

77+00

Exc. = 29.6
Emb. = 31.5

43.28
42.65
E.P. E.R. E.R. E.P.
C = 12
F = 3

76+00

Exc. = 18.2
Emb. = 2.2

43.22
42.63
E.P. E.P.
C = 37
F = 3

75+79.88 (Intersection 3rd St & Lehua Ave)

Exc. = 102.1
Emb. = 8.9

42.98
42.23
Fence Fence
E.P. E.P.
Ground line in error
C = 32
F = 3

75+00

Exc. = 148.2
Emb. = 9.3

42.68
42.34
Fence
E.P. E.P.
C = 48
F = 2

74+00

Exc. = 98.2
Emb. = 16.7

60 40 20 0 ℄ 20 40 60

44.18
43.8
E.P. E.P. Conc. S.W.
C = 15
F = 6

79+00

Exc. = 64.8
Emb. = 48.2

43.88
43.6
Fence
E.P. E.P. Hse.
C = 20
F = 20.

78+00

Exc. = 44.4
Emb. = 63.0

60 40 20 0 ℄ 20 40 60 80

PLATE 3 - CROSS SECTION
K & E CO. No. 345-3 MADE IN U.S.A. 24101-3
KEUFFEL & ESSER CO., NEW YORK.

5151.43

Sheet 9 of 11 Sheets (9)

(43)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DA-NDS-14(12)	1944	44	81

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK 1944-45 J.C.K., AREAS CHECKED, DATE 2/44 6/44, BY J.F. E.K., NO.

Revised: April 30, 1945

82+40

50 / 45

44.48 — 45.3 — E.P. — E.P. — Fence

C = 232
F = 0

82+00

Exc. = 249.6
Emb. = 0.0

50 / 45

44.63 — 45.2 — E.P. — E.P.

C = 105
F = 0

81+00

Exc. = 305.6
Emb. = 7.4

45 / 40

44.73 — 44.8 — Conc. S.W. — E.P. — E.P. — Fence

C = 60
F = 4

Exc. = 163.0
Emb. = 44.4

45 / 40

44.48 — 44.3 — E.P. — E.P.

C = 28
F = 20

80+00

Exc. = 62.3
Emb. = 37.9

45 / 40

44.30 — 43.8 — E.P. — E.P.

C = 28
F = 14

79+39.88 (Along 4th St)

Exc. = 31.7
Emb. = 14.8

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

PLATE 3 - CROSS SECTION — U. S. A. R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

5151.44

44

10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR 14(2)	1944	45	81

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

Revised: April 30, 1945

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE — 7/44, 8/44

45 / 40

Sta. 444+50 Kam. Hgwy.

44.25 / 44.5

83+00
(Along Pav't Kamehameha Highway)

Exc. = 27.0
Emb. = 4.7

44.27 / 44.3

Sta. 443+00 Kam. Hgwy.

C = 148
F = 0

45 / 40

C = 34
F = 32

82+92
(Along Edge of Pav't Kamehameha Highway)

Exc. = 16.8
Emb. = 16.2

44.30 / 44.4

45 / 40

C = 67
F = 62

Sta. 444+50 Kam. Hgwy

82+83

Exc. = 78.3
Emb. = 120.4

Sta. 443+00 Kam. Hgwy

50 / 45

44.31 / 44.6

Top of Sidewalk

E.P.

C = 356
F = 3

82+73

Exc. = 283.7
Emb. = 1.3

60 / 45

44.43 / 45.4

Sidewalk

E.P.

E.P.

C = 177

C = 310
F = 0

82+50

Exc. = 100.4
Emb. = 0.0

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

PLATE 3. CROSS SECTION ℄ R. P. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 84181-3

5151.45

45

11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NS-4 (2)	1944	46	81

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 E.N. E.N. — DATE 7/44 7/44

Revised: April 30, 1945

84+57 ℄ — 45.26 — 4835 — E.P. — E.P. — C=89° — C=152°

C = 250
F = 0

Exc. = 544.6
Emb. = 0.0

84+51 ℄ — 45.17 — 483 — E.P. — E.P.

C = 257
F = 0

Exc. = 319.8
Emb. = 0.0

84+00 ℄ — 44.68 — 471 — Store — E.P. — E.P.

C = 377
F = 0

Exc. = 695.5
Emb. = 0.0

Sta. 444+50 Kam. Hgwy

83+41 ℄ — 44.39 — 441 — E.P. — E.P.

C = 265
F = 0

Exc. = 55.0
Emb. = 0.0

83+33 ℄ — 44.34 — 442 — E.P. — E.P. — Conc. Box.

C = 106
F = 0

Exc. = 157.6
Emb. = 0.0

88+52 ℄ — 59.26 — 572 — Ditch — E.P. — E.P. — 24" Conc. Drain Pipe — E. Conc. — Ditch

C = 6
F = 65

Exc. = 17.3
Emb. = 75.1

88+00 ℄ — 57.18 — 563 — Iron Railing — E.P. — E.P. — E. Conc. — Ditch — Ditch

C = 12
F = 13

Exc. = 144.4
Emb. = 24.1

87+00 ℄ — 53.18 — 541 — Iron Railing — E.P. — E.P. — Edge Conc.

C = 66
F = 0

Exc. = 514.8
Emb. = 0.0

86+00 ℄ — 49.18 — 518 — Pipe Railing — E.P. — E.P. — Edge Conc.

C = 212
F = 0

Exc. = 948.2
Emb. = 0.0

Sta. 443+00 Kam. Hgwy

85+00 ℄ — 46.06 — 493 — E.P. — E.P.

C = 300
F = 0

Exc. = 432.9
Emb. = 0.0

PLATE 3. CROSS SECTIONS. C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

5151.46
Sheet 12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DI-NG (3) 81	1944	47	81

Revised: April 30, 1945
Revised: May 31, 1945

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

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

92+00 — 75.18 ℄ — 74.75 — E.P. — E.P. — C = 180, F = 0

Exc. = 403.7
Emb. = 42.6

91+00 — 69.18 — 68.2 — E.P. — E.P. — E.Cane — C = 38, F = 23

Exc. = 125.9
Emb. = 205.6

90+00 — 65.18 — 63.1 — E.P. — E.P. — Ditch — C = 30, F = 88

Exc. = 113.0
Emb. = 250.3

89+00 — 61.18 — 59.2 — E.P. — E.P. — C = 31, F = 52

Exc. = 32.1
Emb. = 66.1

88+66 — 59.82 — 58.2 — E.P. — E.P. — Ditch — C = 20, F = 53

Exc. =
Emb. =

97+00 — 88.08 ℄ — Ditch — 90.2 — E.P. — E.P. — C = 197, F = 0

Exc. = 608.2
Emb. = 1.9

96+00 — 85.18 — 87.72 — E.P. — E.P. — E.Cane — C = 180, F = 1

Exc. = 611.1
Emb. = 1.9

95+00 — 83.27 — 84.85 — E.P. — Ditch — E.Cane — C = 150, F = 0

Exc. = 614.8
Emb. = 0.0

94+00 — 80.33 — 82.9 — E.P. — E.P. — Ditch — E. Cane — C = 182, F = 0

Exc. = 674.1
Emb. = 0.0

93+00 — 76.97 — 73.6 — E.P. — E.P. — Ditch — E. Cane — C = 182, F = 0

Exc. = 670.4
Emb. = 0.0

PLATE 3 - CROSS SECTIONS U. S. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U. S. A. 34191-3

5151.47

(47) Sheet 13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR 14(2)	1944	48	81

97+50

Revised: April 30, 1945

Revised: May 31, 1945

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

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, CHECKED — NOTE BOOK NO. p.12 — BY E.N. L.N. — DATE 8/44 8/44

Station 97+74

89.28 ℄

Ditch, E.P., E.P., 91.2

C = 105
F = 25

Exc. = 42.6
Emb. = 14.4

Gully

Station 97+64

89.55 ℄

Ditch, E.P., E.P., 91.0

C = 125
F = 53

Gully

Station 97+41

Exc. = 100.1
Emb. = 22.6

89.02 ℄

Ditch, E.P., E.P., 90.2

C = 110
F = 0

Gully

Station 97+32

Exc. = 36.7
Emb. = 0.0

88.82 ℄

Ditch, E.P., E.P., 90.2

C = 110
F = 0

Exc. = 181.0
Emb. = 0.0

NOTE:
Shoulder Width
varies between
97+00 and 97+32

Station 100+00

94.98 ℄

Ditch, E.P., E.P., 92.35

C = 40
F = 11

Station 99+00

Exc. = 250.0
Emb. = 20.4

92.68 ℄

Ditch, E.P., E.P., 92.5, Fence

C = 95
F = 0

Station 98+50

Exc. = 143.5
Emb. = 104.4

91.53 ℄

Ditch, E.P., E.P., 92.35

C = 60
F = 210

Station 98+00

Exc. = 143.5
Emb. = 203.7

90.39 ℄

Ditch, E.P., E.P., 91.6

C = 95
F = 10

Exc. = 96.3
Emb. = 16.8

Gully

PLATE 3 - CROSS SECTION OF U.S. R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 341181-3

5151.48

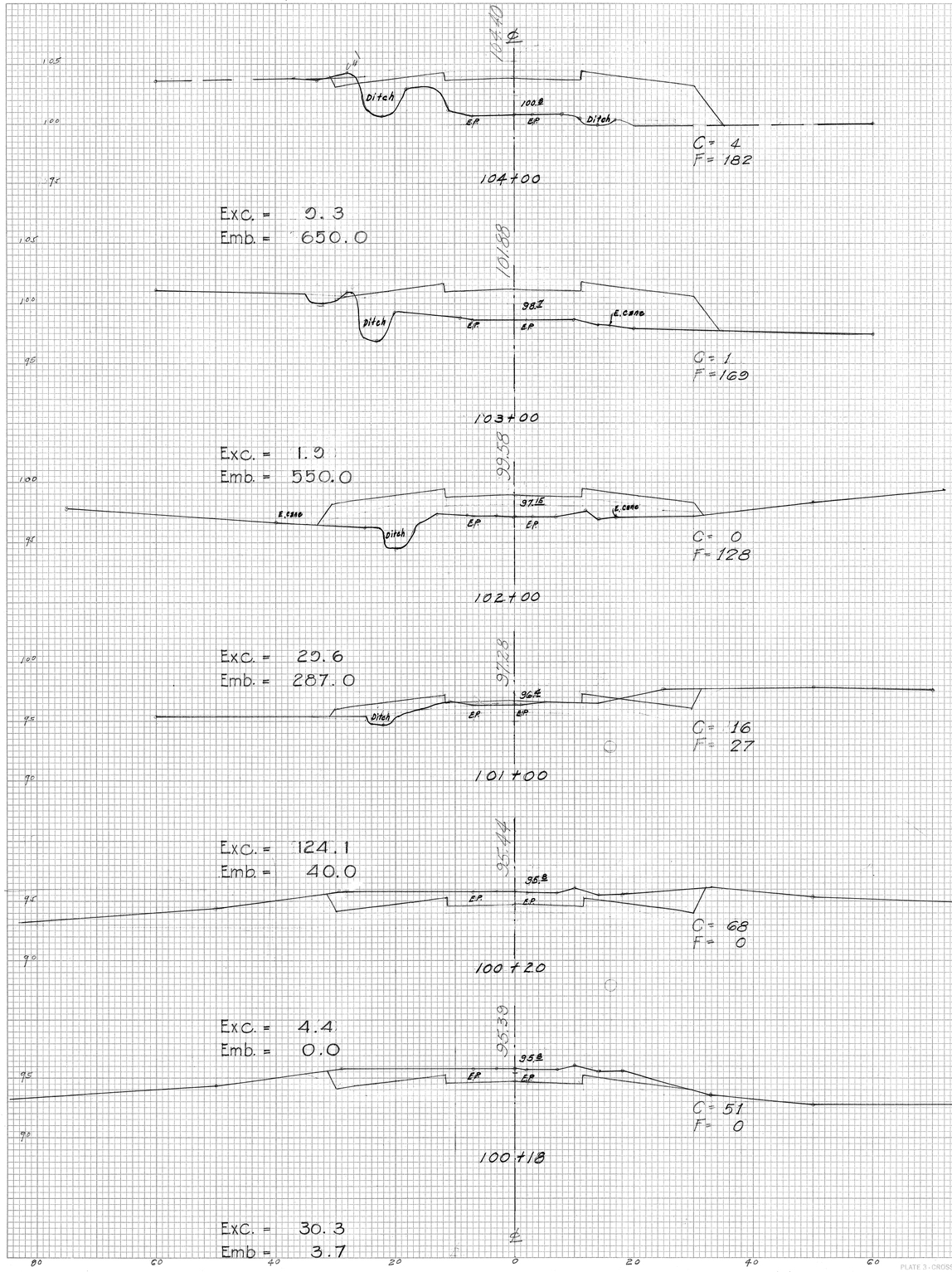
(48) Sheet 14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DA-NR 14 (2)	1944	49	81

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

Revised May 31, 1945

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS, AREAS CHECKED, NO. 62-28, BY E.N.W., DATE 8/24/44



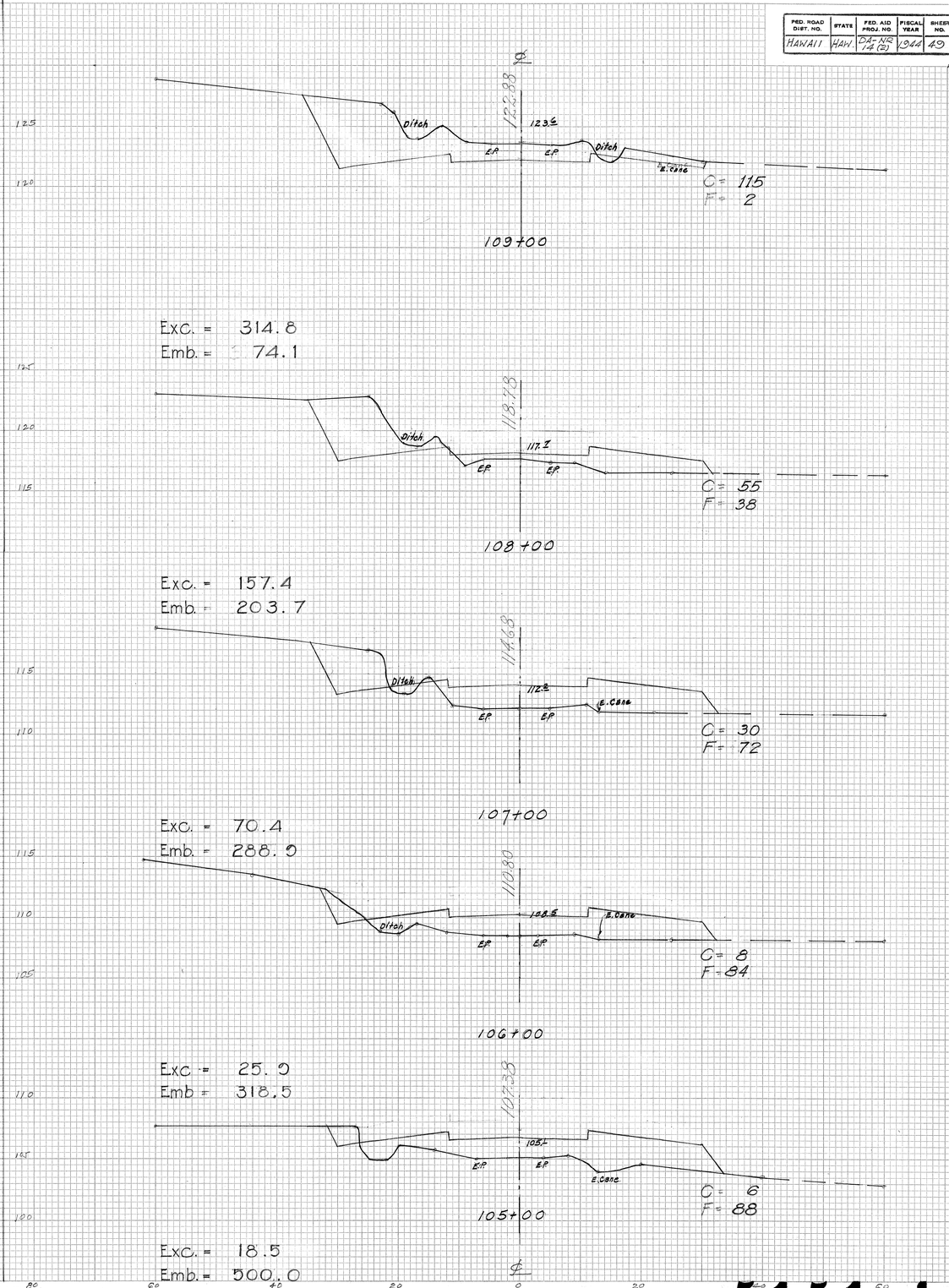


PLATE 3 - CROSS SECTIONS U. P. R. & R. E. STANDARD.
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

5151.49

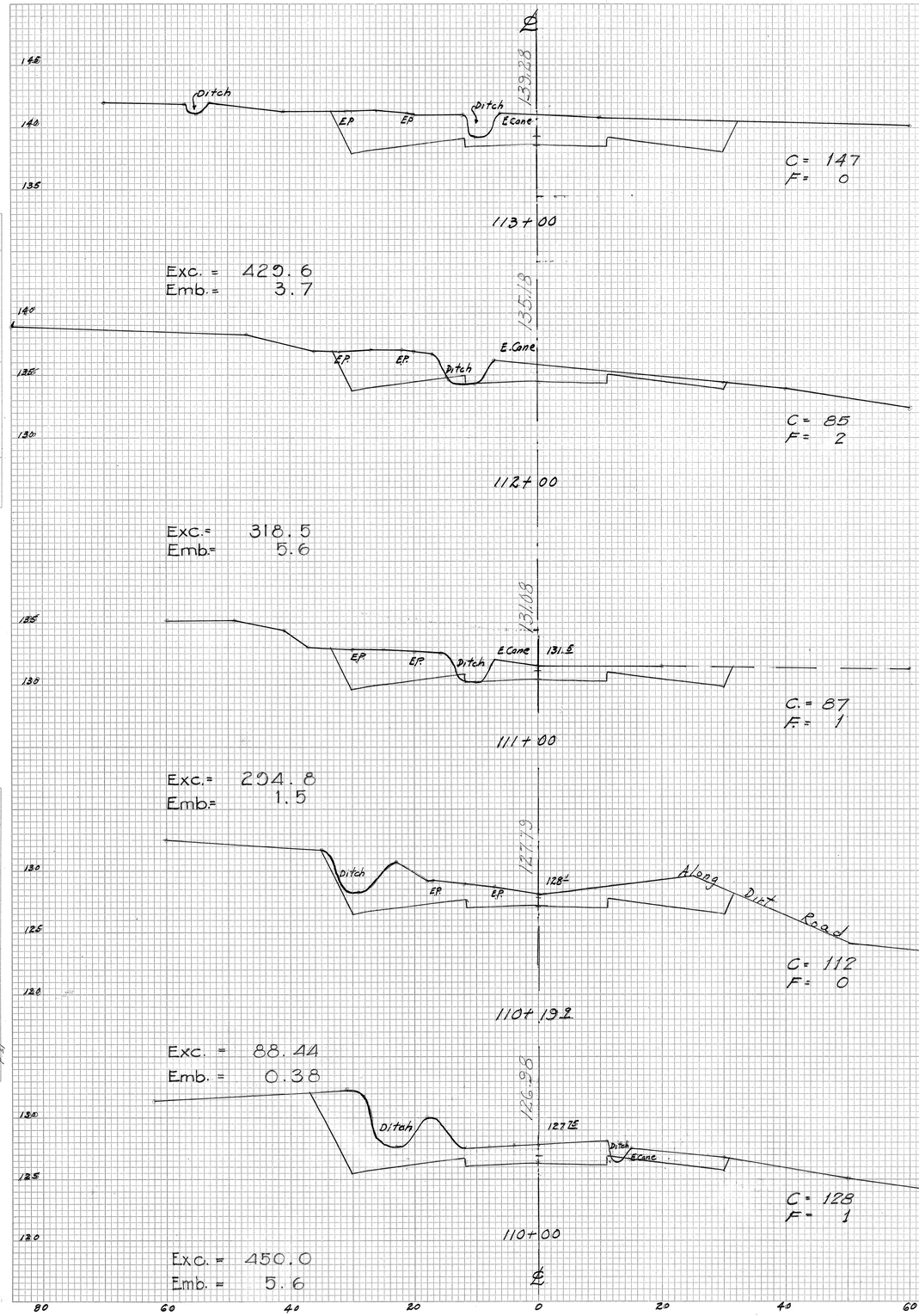
(49) Sheet 15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	DA-MR 14(3)	1944	50	81

Revised: May 31, 1945

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

ORIGINAL SURVEY — SURVEYED E.N. — PLOTTED E.N. — TEMPLATE — NOTE BOOK — AREAS — AREAS CHECKED — NO. — DATE 8/44 8/44 — BY



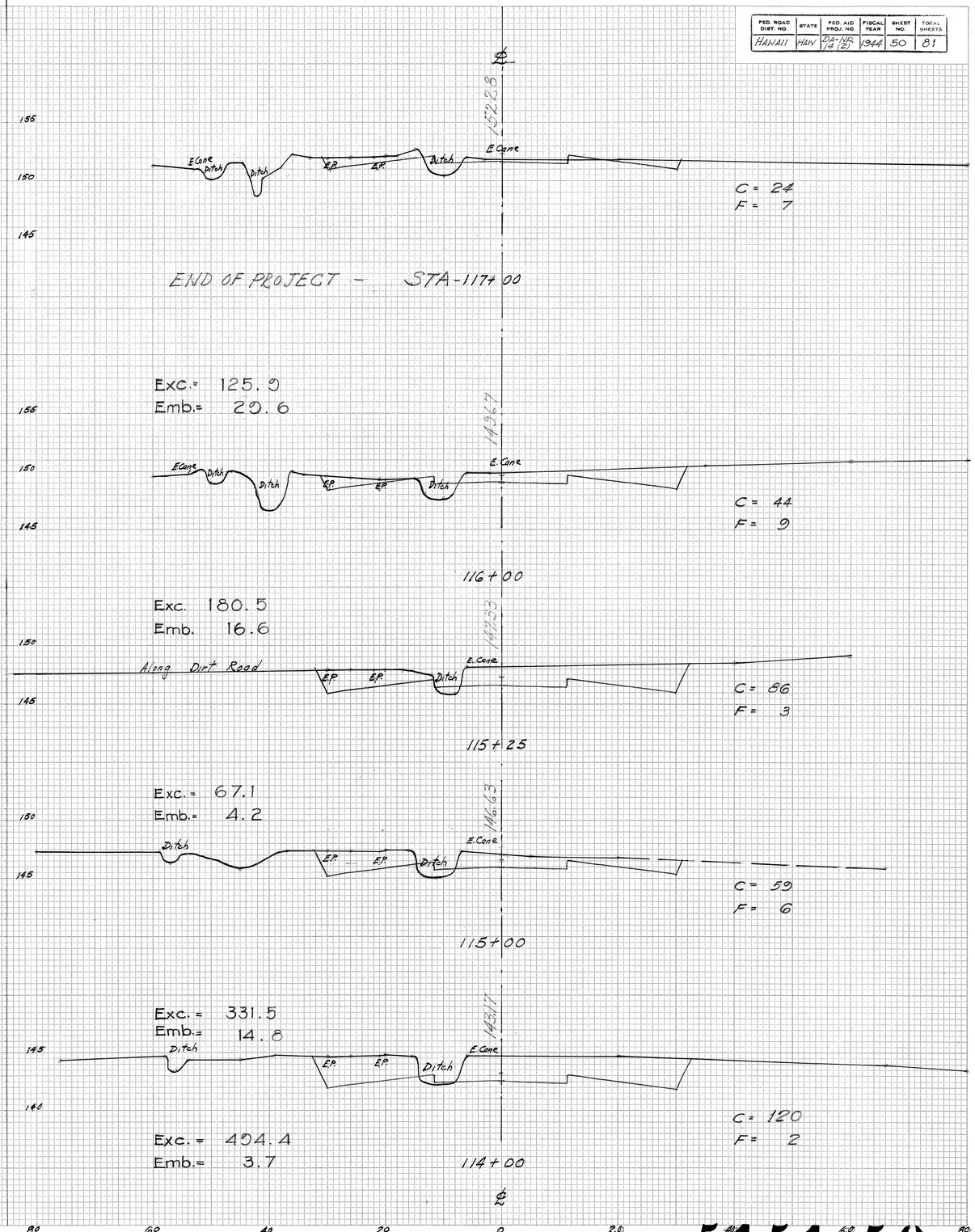


PLATE 3 - CROSS SECTIONS - U. P. R. & R. S. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 34191-3

5151.50

(50) Sheet 16