FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	184	317

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

60 50 40 30 20

G1.38

Ultimate Finish Surface

Top of Embankment

Future Structure

℄R/W

Exc = 0
Emb = 3498

55 + 00

C = 0
F = 3202

G1.19

Ultimate Finish Surface

Top of Embankment

Future Structure

℄R/W

Exc = 0
Emb = 3208

54 + 75

C = 0
F = 2611

G1.24

Ultimate Finish Surface

Top of Embankment

Future Structure

℄R/W

54 + 50.61

C = 0
F = 2855

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U.S. GOVT. SURVEY PLOTTED FROM AERIAL PHOTOGRAPHS DATED 1959
REPRODUCED FROM A PORTION OF U.S. GOVT. SURVEY
CORRECTION TO U.S. GOVT. SURVEY
CHASE MANHATTAN BANK, NEW YORK
SCALE 1" = 100'
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON 25, D.C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
PHOTOGRAPHIC CORRECTION & PLATE BY STANDARD PRINTING CO., PHILADELPHIA

1 S 4

FED. ROAD DIST. NO.	STATE	F.E.D. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1965	185	217

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

R/W

Ultimate Finish Surface

Top of Embankment

60.62

60 50 40 30 20

C = 0
F = 4848

℄ R/W

55+50

Exc = 0
Emb = 3687

60.82

Ultimate Finish Surface

Top of Embankment

60 50 40 30 20

C = 0
(Fwd.) F = 4,161
(Bk) F = 3,504

℄ R/W

55+38

Exc = 0
Emb = 1361

61.03

Ultimate Finish Surface

Top of Embankment

Future Structure

60 50 40 30 20

C = 0
F = 3562

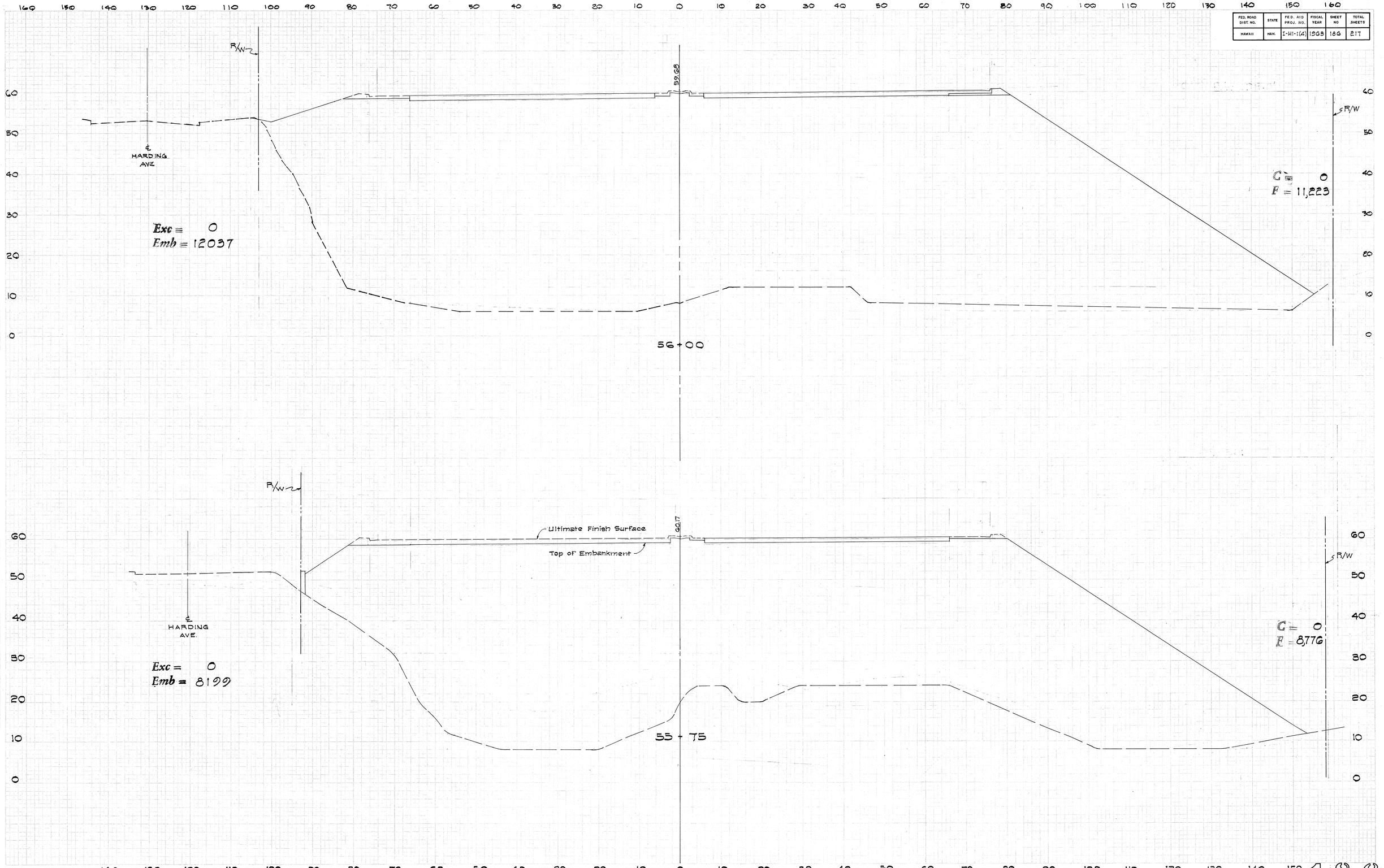
℄ R/W

55+25

Exc = 0
Emb = 4070

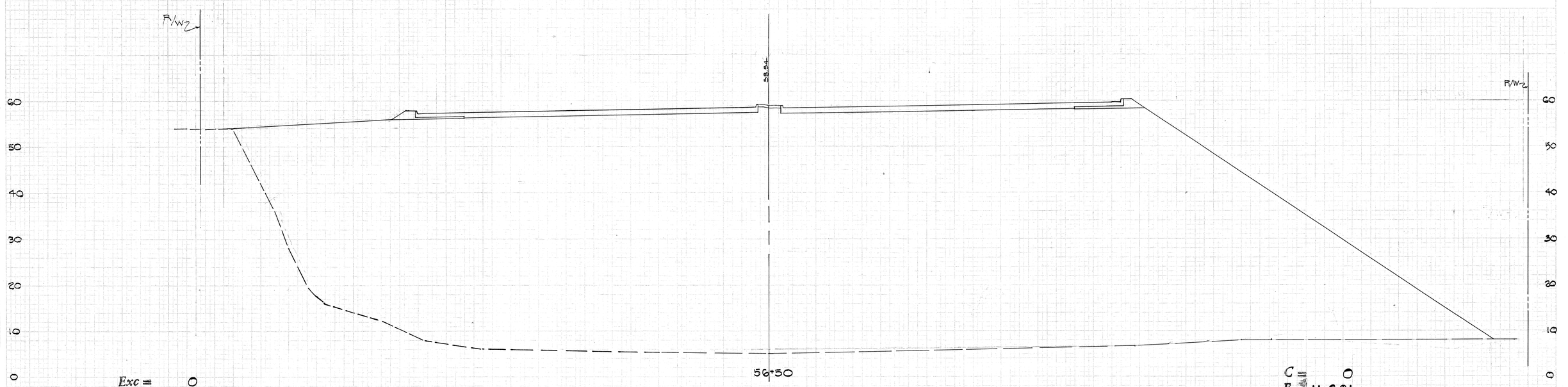
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

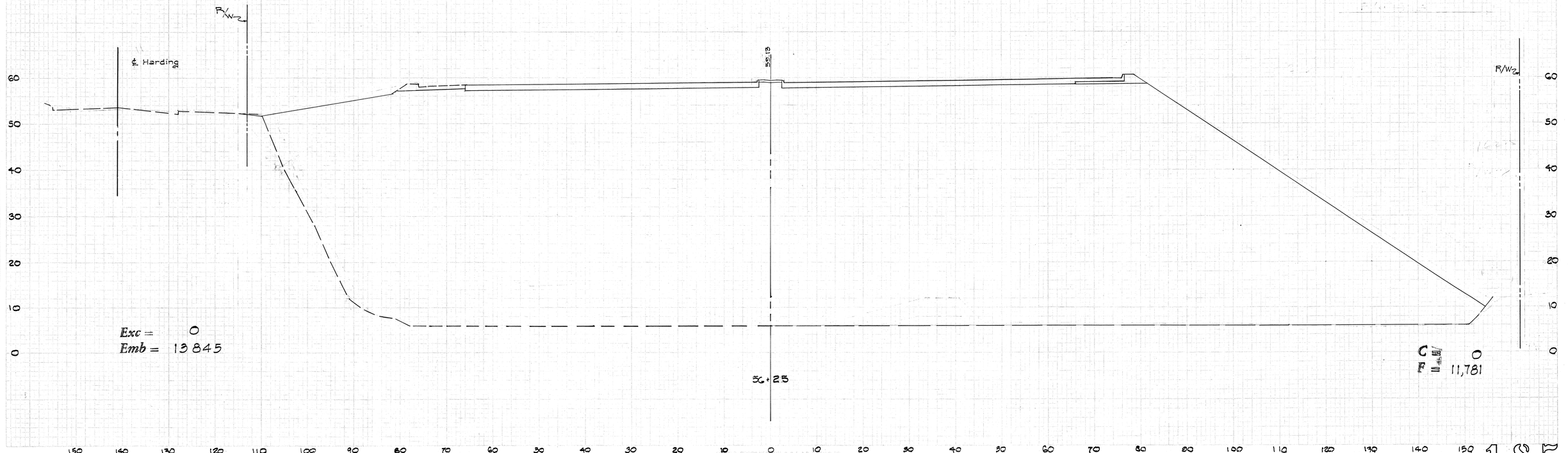
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	19GB	18G	21T



1 S G

FED. ROAD DIST. NO.	STATE	F.E.D. A10 PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(2)	1963	187	217

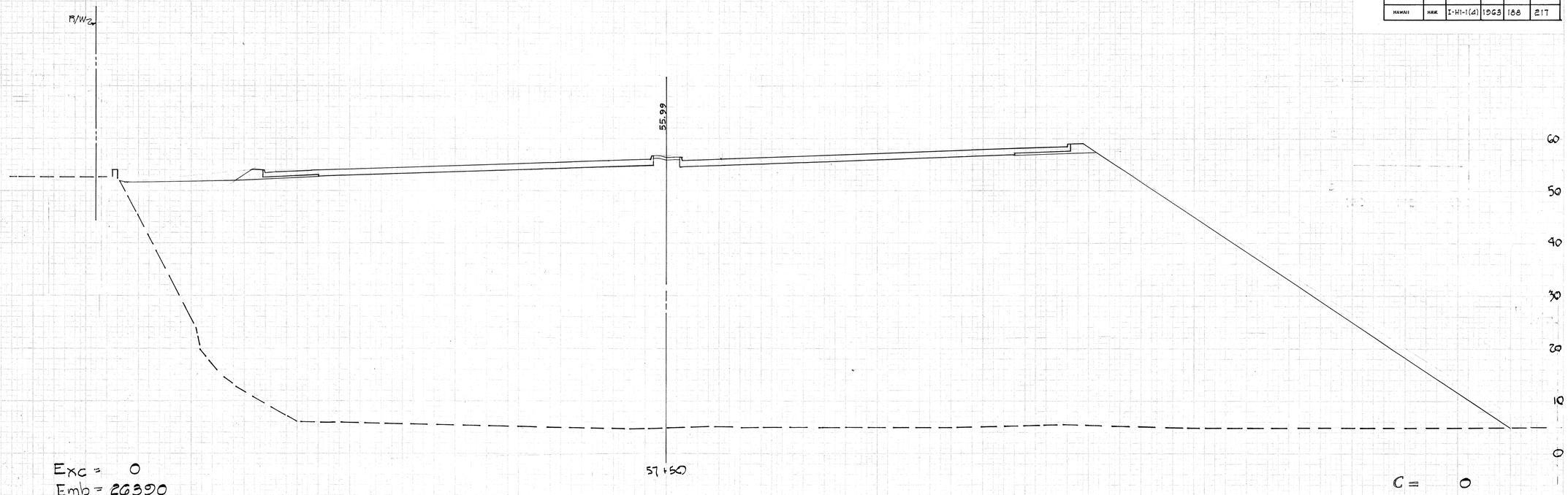


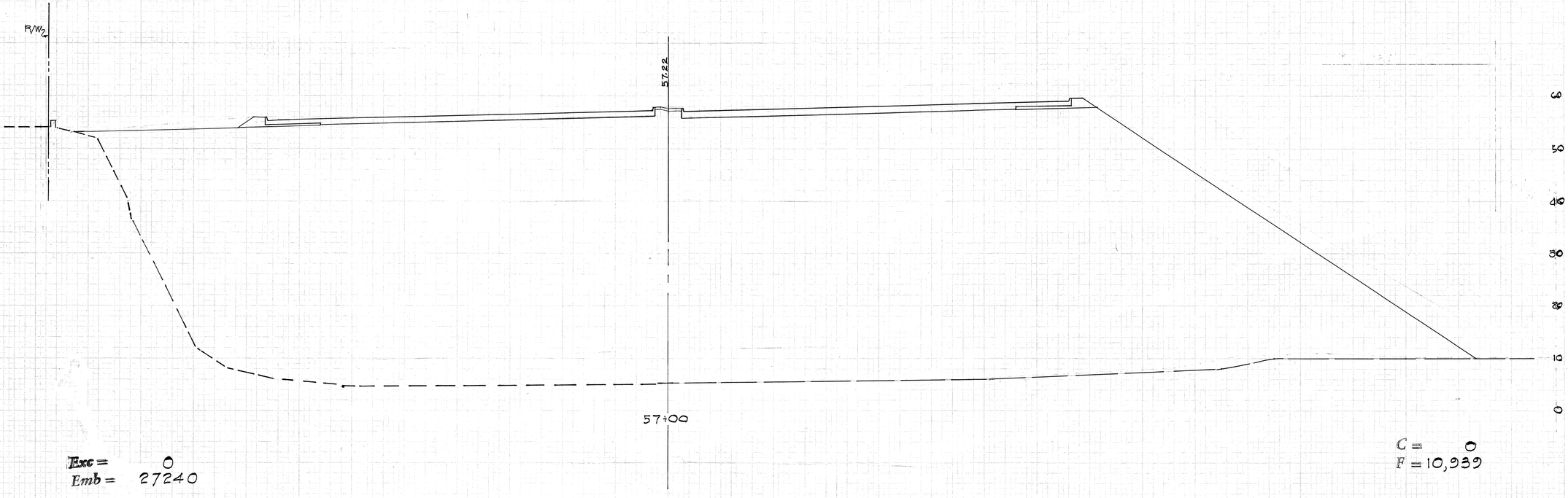


1 S7

FED. ROAD DIST. NO.	STATE	F.E.D. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	188	217

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

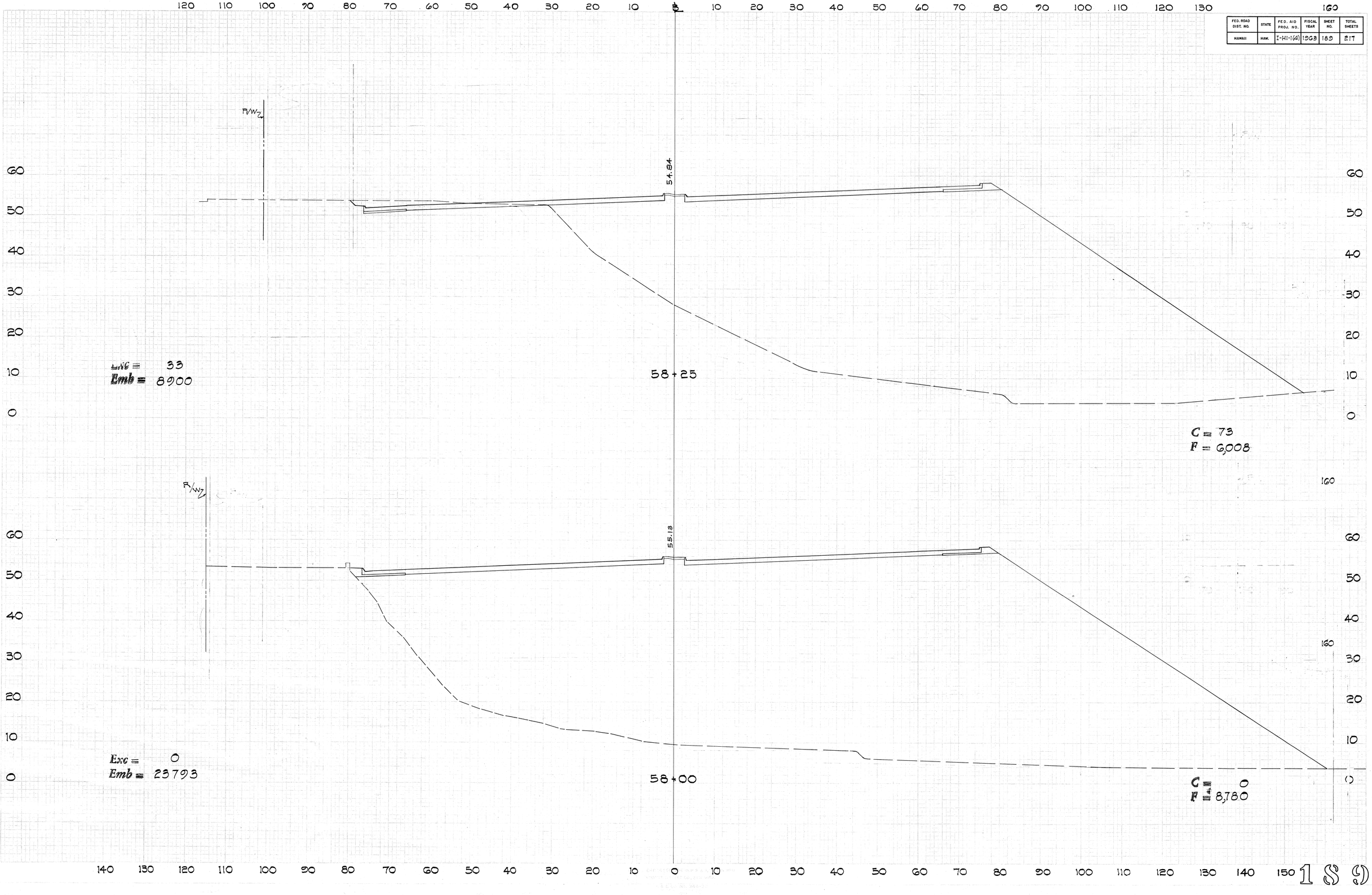




160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1 S S

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	183	217



183

FED. ROAD DIST. NO.	STATE	F.E.D. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1968	190	217

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

70 60 50

R/W₂

54.75

59+30

Exc = 90
Emb = 647

C = 18
F = 388

70 60 50 40

R/W₂

54.51

59+00

Exc = 90
Emb = 181

C = 79
F = 150

70 60 50

R/W₂

54.53

58+75

Exc = 106
Emb = 1292

C = 116
F = 150

60 50 40 30 20 10

R/W₂

54.63

58+50

Exc = 87
Emb = 4818

C = 114
F = 1,996

B

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1 9) (1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	191	217

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130

60 50 40

R/W

59.20

61 + 50

C = 0
F = 970

Exc = 0
Emb = 2105

60 50 40

R/W

57.67

61 + 00

C = 0
F = 778

Exc = 0
Emb = 1840

60 50 40

R/W

56.33

60 + 50

C = 0
F = 750

Exc = 2
Emb = 1521

70 60 50 40

R/W

55.35

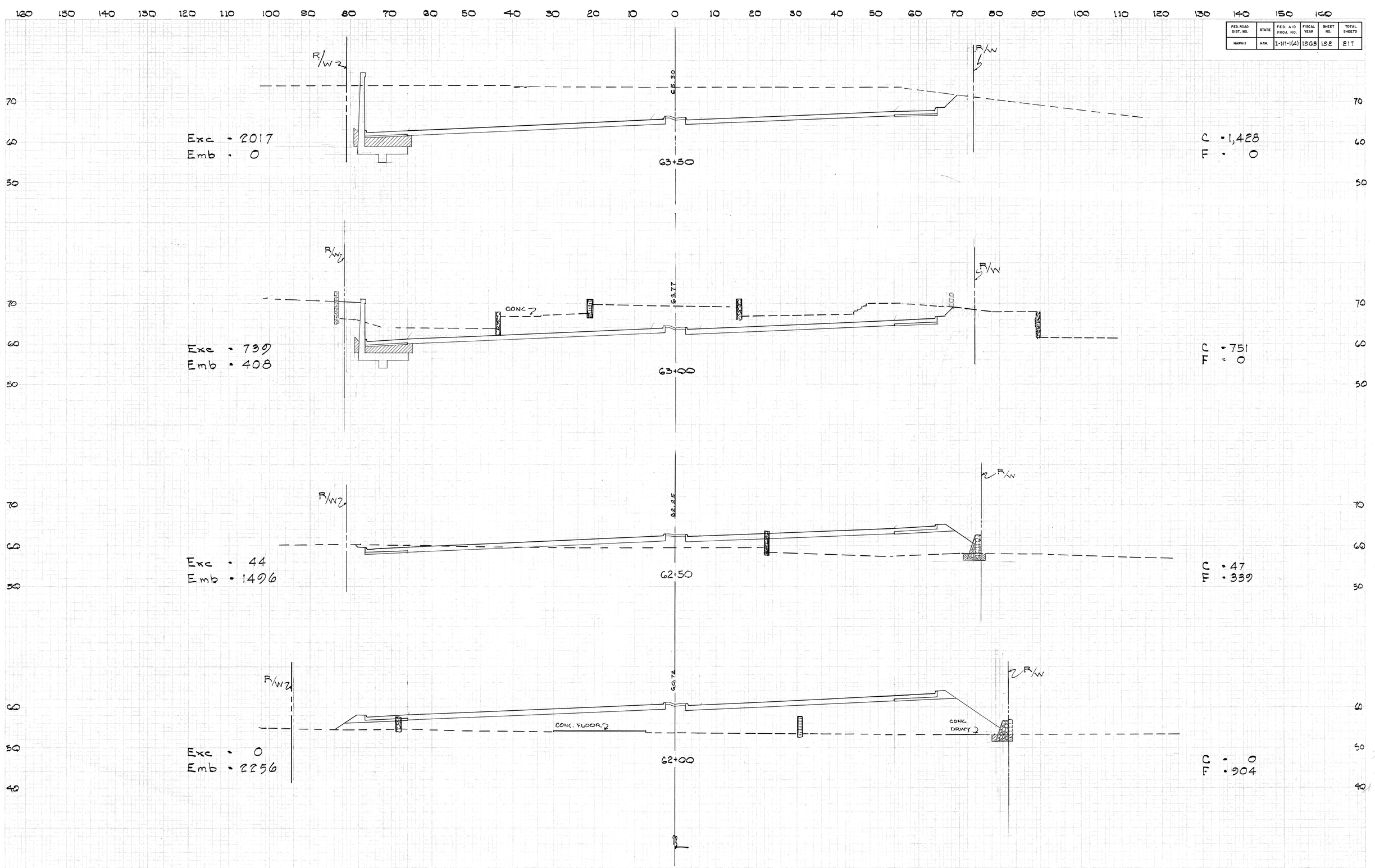
60 + 00

C = 2
F = 514

Exc = 19
Emb = 1086

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	192	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	193	217

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

80 70 60

R/W ℄

71.40

65+50

℄ R/W

Exc - 1598
Emb - 16

C - 652
F - 8

R/W ℄

69.87

FISH POND

65+00

℄ R/W

Exc - 2295
Emb - 8

C - 1,074
F - 6

R/W ℄

68.35

64+50

℄ R/W

Exc - 2660
Emb - 0

C - 1405
F - 0

R/W ℄

66.82

64+00

℄ R/W

Exc - 2681
Emb - 0

C - 1,468
F - 0

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

193

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(64)	1968	194	217

120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

80 70 60

R/W

77.52

Exc = 306
Emb = 490

67+50

C = 140
F = 280

R/W

R/W

75.93

Exc = 405
Emb = 298

67+00

C = 191
F = 127

R/W

R/W

74.47

Exc = 496
Emb = 315

66+50

C = 246
F = 120

R/W

R/W

74.94

Exc = 457
Emb = 112

66+00

C = 290
F = 141

R/W

R/W

74.07

Exc = 495
Emb = 14

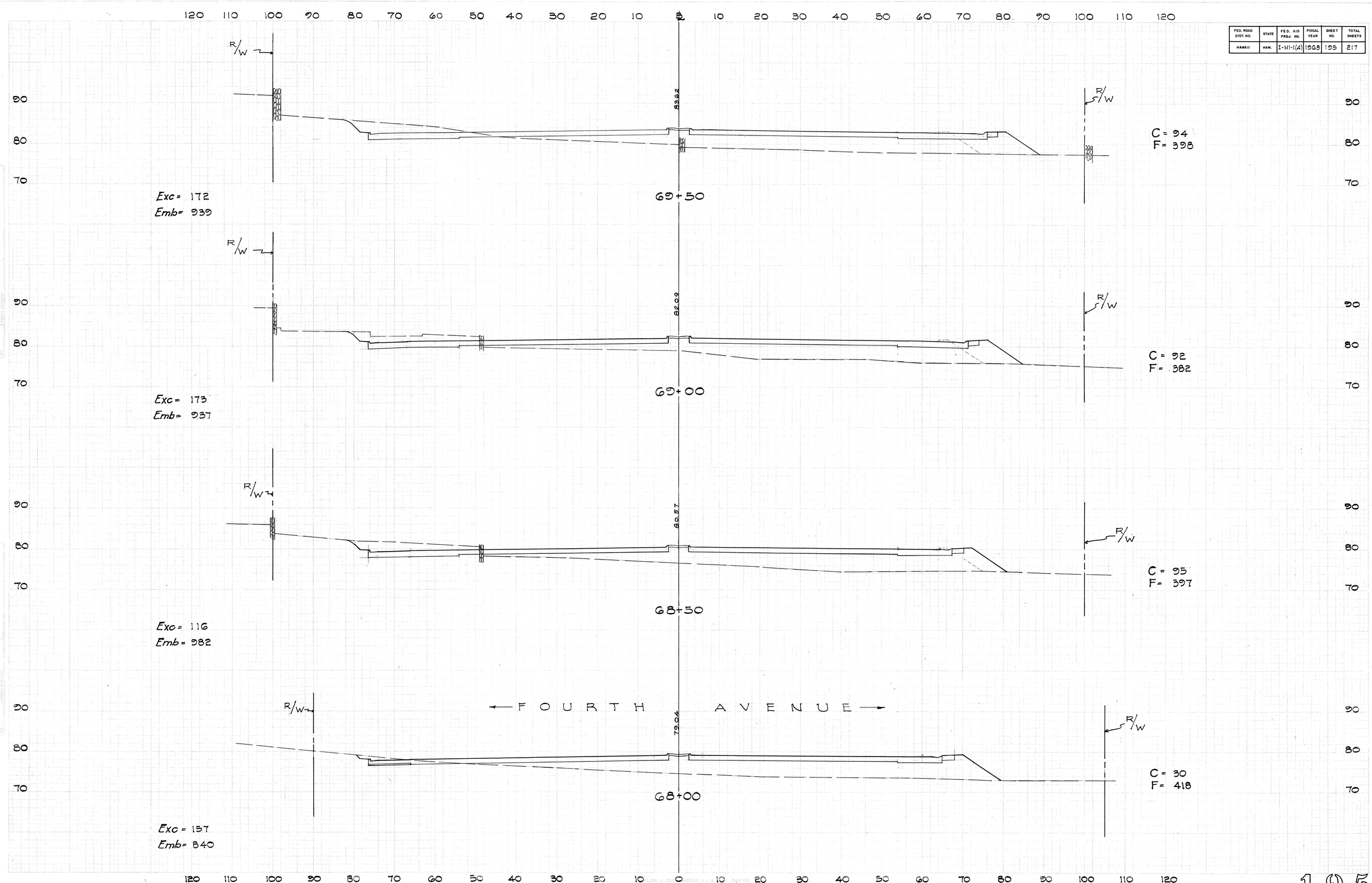
65+71.93 (BK.) = 65+71.22 (FWD)

C = 368
F = 20

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

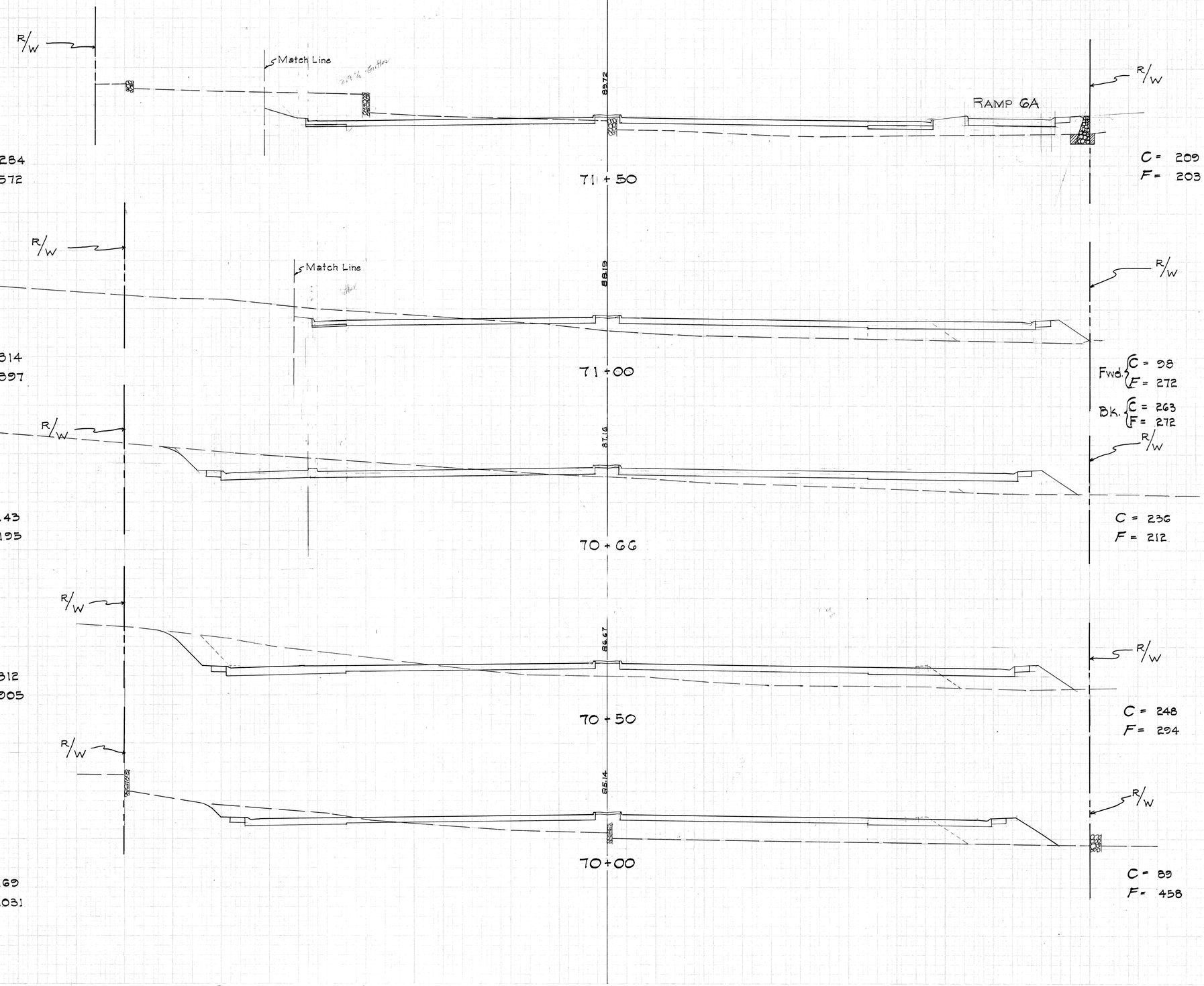
194

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1968	195	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(64)	1968	196	217

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1968	197	217

110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

73 + 50

R/W — 5TH AVENUE — 24.37 — RAMP GA — R/W

C = 985
F = 91

Exc = 1653
Emb = 189

100 / 90 / 80

73 + 00

R/W — 23.48 — RAMP GA — R/W

C = 800
F = 66

Exc = 1224
Emb = 211

100 / 90 / 80

72 + 50

R/W — 22.21 — RAMP GA — R/W

C = 522
F = 109

Exc = 647
Emb = 365

100 / 90 / 80

72 + 00

R/W — 21.15 — RAMP GA — R/W

C = 177
F = 195

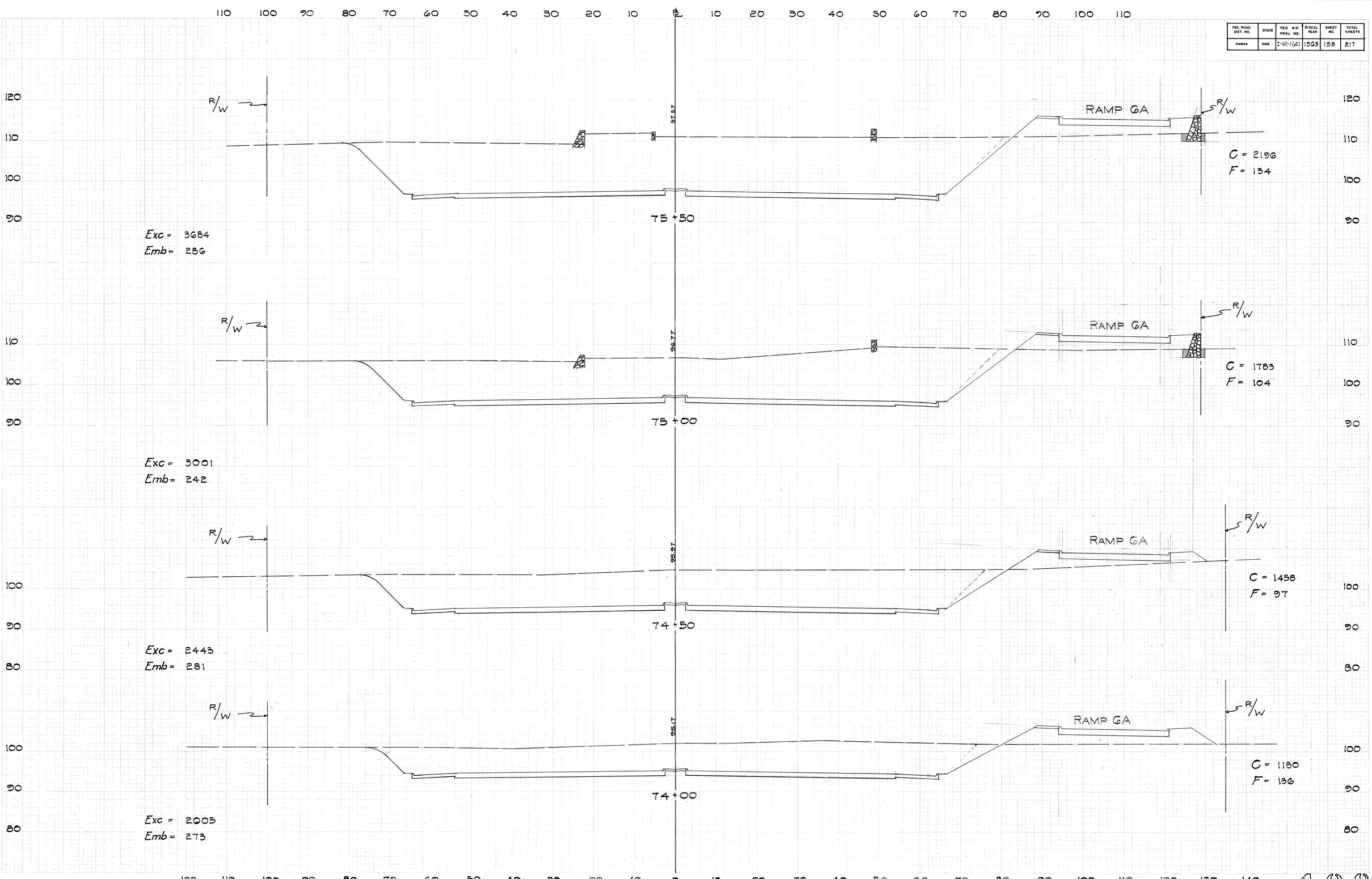
Exc = 357
Emb = 480

100 / 90 / 80

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

ORIGINAL SURVEY — PLOTTED — COMPUTED — CHECKED — TRACED — DESIGNED — PLOTTED — CHECKED — QUANTITIES — DATE — SUBMITTED — APPROVED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	198	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(41)	1963	199	217

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

120 110 100

R/W ℄ R/W

C = 3687
F = 0

Exc = 6167
Emb = 0

99.91

77+50

SIXTH AVENUE

C = 2973
F = 0

Exc = 5880
Emb = 0

99.97

77+00

R/W ℄ R/W

RAMP GA

C = 3378
F = 0

Exc = 5808
Emb = 40

99.17

76+50

R/W ℄ R/W

RAMP GA

C = 2895
F = 33

Exc = 4714
Emb = 202

99.37

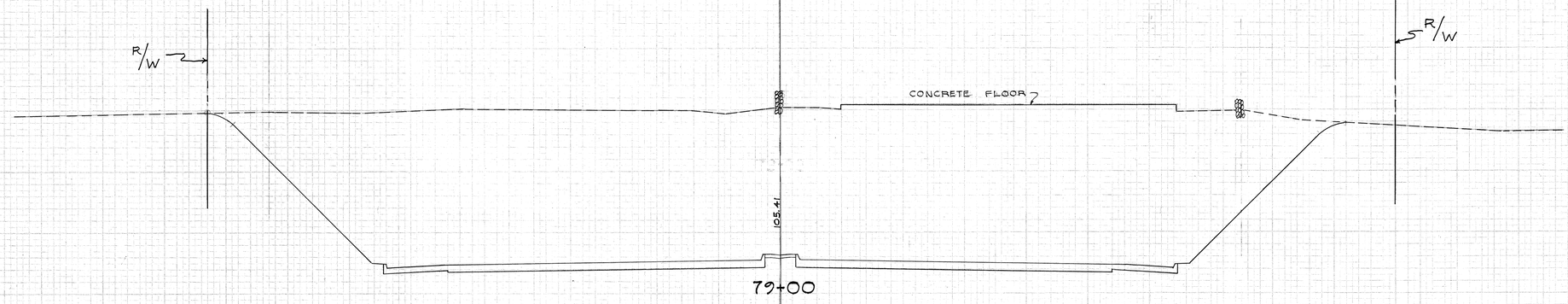
76+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

199

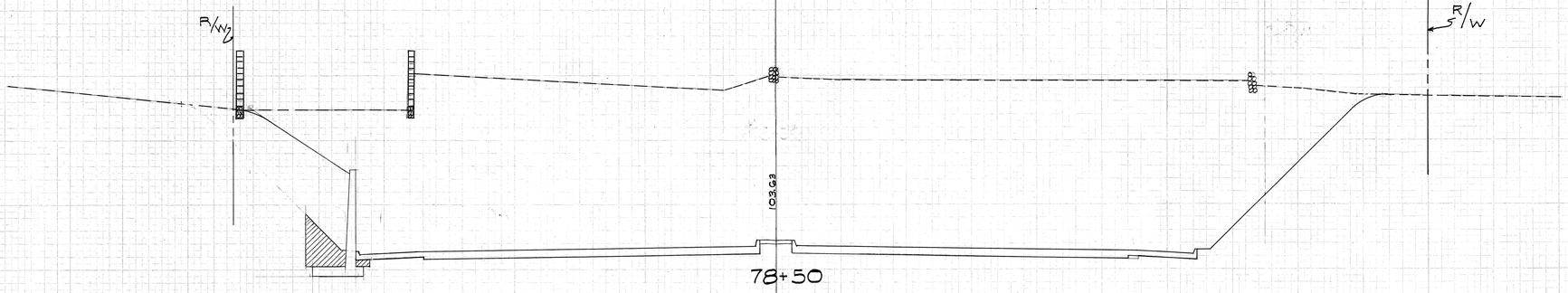
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(41)	1963	200	217

130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130



C = 4,257
F = 0

Exc = 7769
Emb = 0



C = 4,134
F = 0

Exc = 7460
Emb = 0



C = 3,923
F = 0

Exc = 7046
Emb = 0

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

2 (1) (1)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	201	217

110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

140 130 120

R/W

114.77

81+00

Exc = 6686
Emb = 0

C = 3,505
F = 0

R/W

140 130 120

112.22

80+50

Exc = 6956
Emb = 0

C = 3,716
F = 0

R/W

CONCRETE FLOOR

140 130 120

109.81

80+00

Exc = 7181
Emb = 0

C = 3,797
F = 0

R/W

HOLLOW TILE
CONCRETE FLOOR

140 130 120 110

107.47

79+50

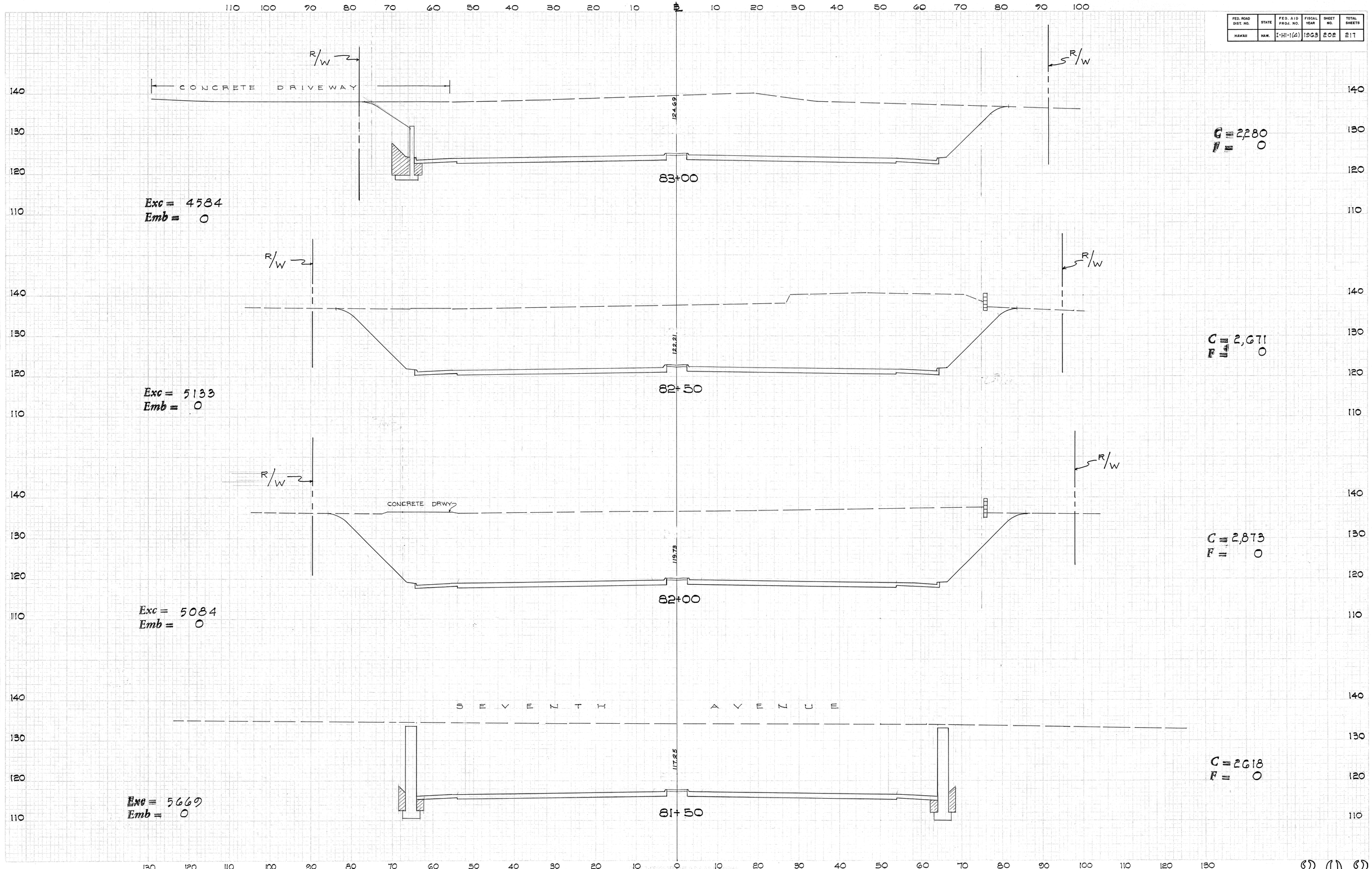
Exc = 7607
Emb = 0

C = 3,959
F = 0

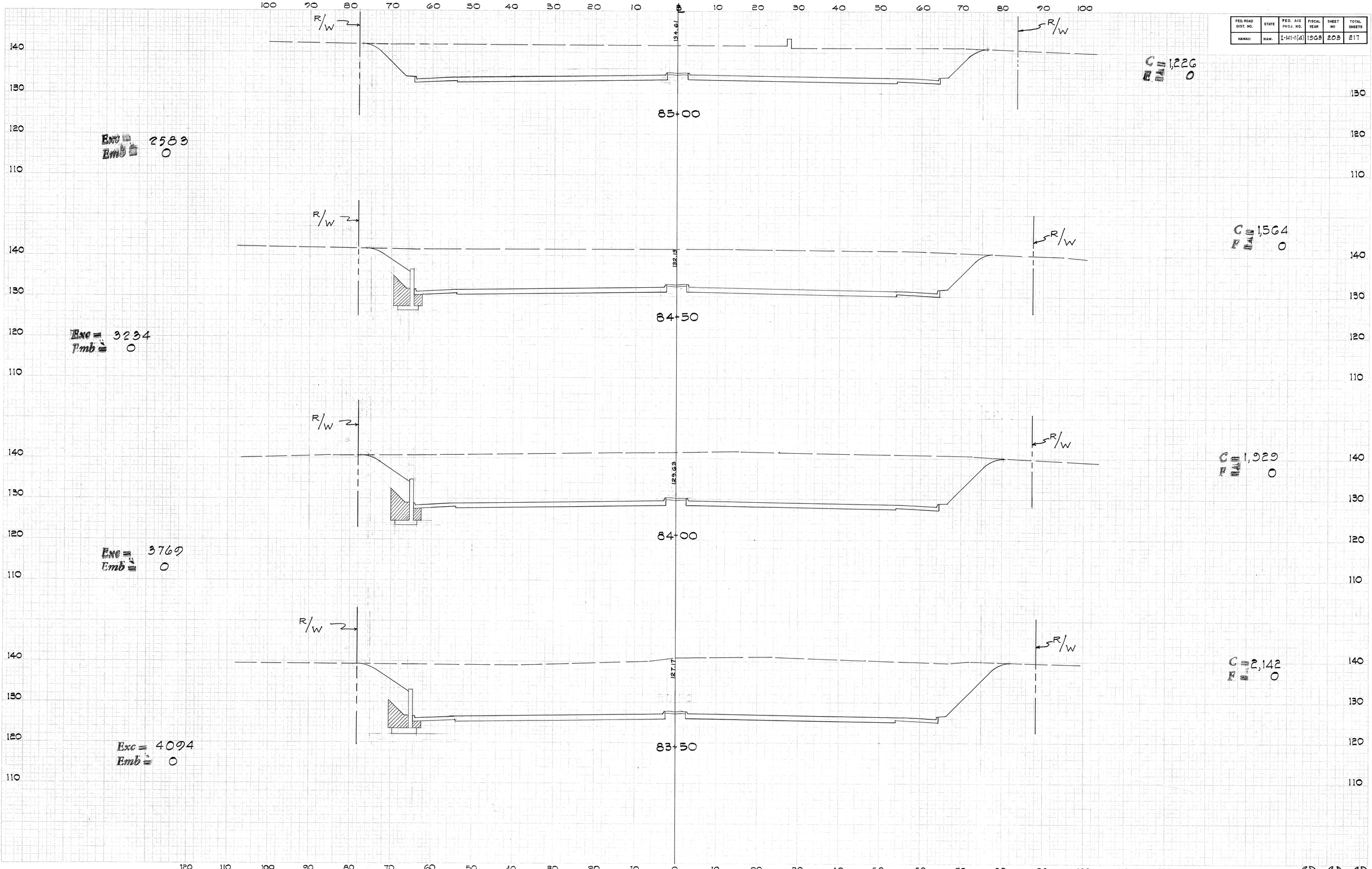
130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

201

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(41)	1963	202	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	203	217



2 0 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	204	217

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

150 / 140 / 130

R/W

147.01

87+50

Exc = 498
Emb = 0

C = 248
F = 0

144.53

87+00

Exc = 639
Emb = 0

C = 290
F = 0

142.05

86+50

Exc = 754
Emb = 0

C = 400
F = 0

E I G H T H A V E N U E

139.57

86+00

Exc = 1217
Emb = 0

C = 414
F = 0

137.09

85+50

Exc = 1969
Emb = 0

C = 900
F = 0

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	205	217

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

160 150 140

R/W

GRAVEL DRWY

153.41

90+00

Exc = 102
Emb = 437

C = 24
F = 315

156.93

89+50

Exc = 308
Emb = 57

C = 183
F = 48

154.45

89+00

Exc = 160
Emb = 83

C = 150
F = 0

151.97

88+50

Exc = 119
Emb = 107

C = 23
F = 69

149.49

88+00

Exc = 328
Emb = 25

C = 106
F = 20

ORIGINAL DRAWING FINAL SURVEY FROM FIELD NOTE BOOK DATED 1961 BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(4)	1963	206	217

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

160 150 140 130

1632

R/W

R/W

92+00

C = 0
F = 2,350

Exc = 0
Emb = 5265

1629.85

R/W

R/W

91+50

C = 0
F = 2024

Exc = 0
Emb = 4381

1627

2 R/W

R/W

A.C. DRWY 2

91+00

C = 0
F = 1,616

Exc = 0
Emb = 3246

1621.89

R/W

R/W

N I N T H A V E N U E

90+50

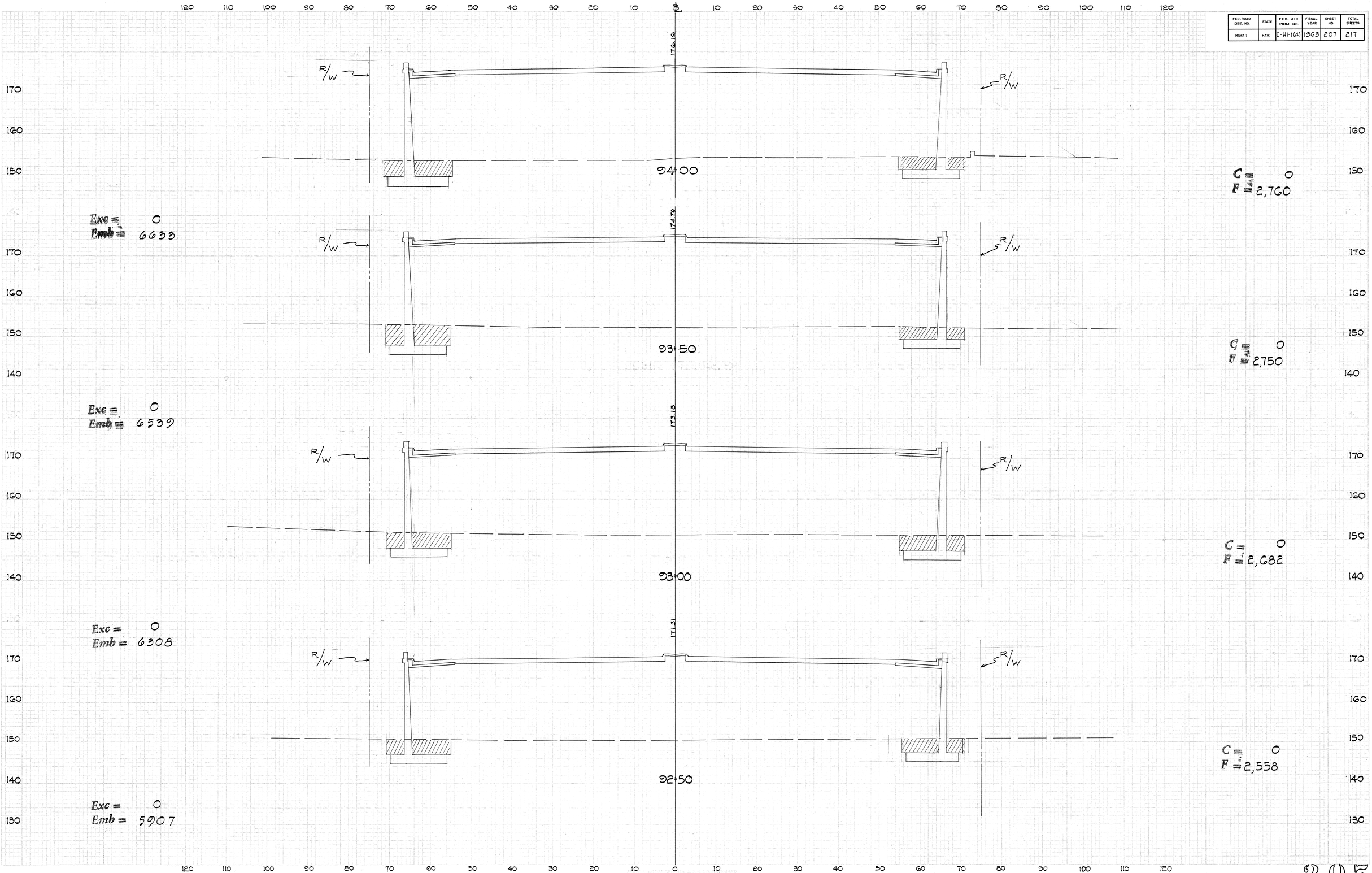
C = 0
F = 1,081

Exc = 22
Emb = 1681

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

206

FED. ROAD DIST. NO.	STATE	F.E.D. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	207	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	208	217

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

170 160 150 140

178.17 PI

R/W

95 + 50

C = 0
F = 2,655

Exc = 0
Emb = 3674

178.52

R/W

95 + 23.61

C = 0
F = 3,129

Exc = 0
Emb = 9053

177.48

R/W

94 + 58.27

C = 0
F = 2,626

Exc = 0
Emb = 1075

177.27

R/W

94 + 50

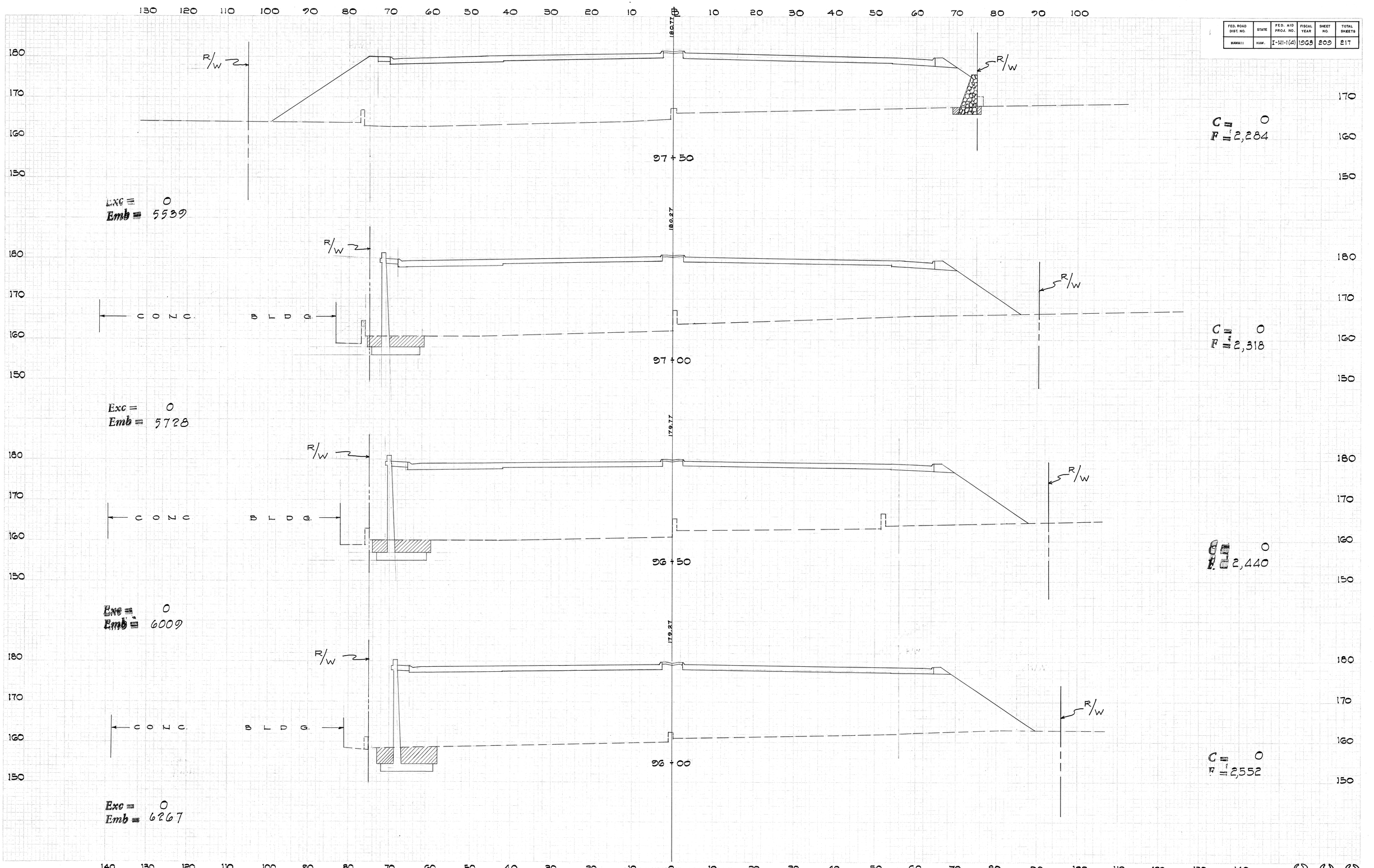
C = 0
F = 2,776

Exc = 0
Emb = 6664

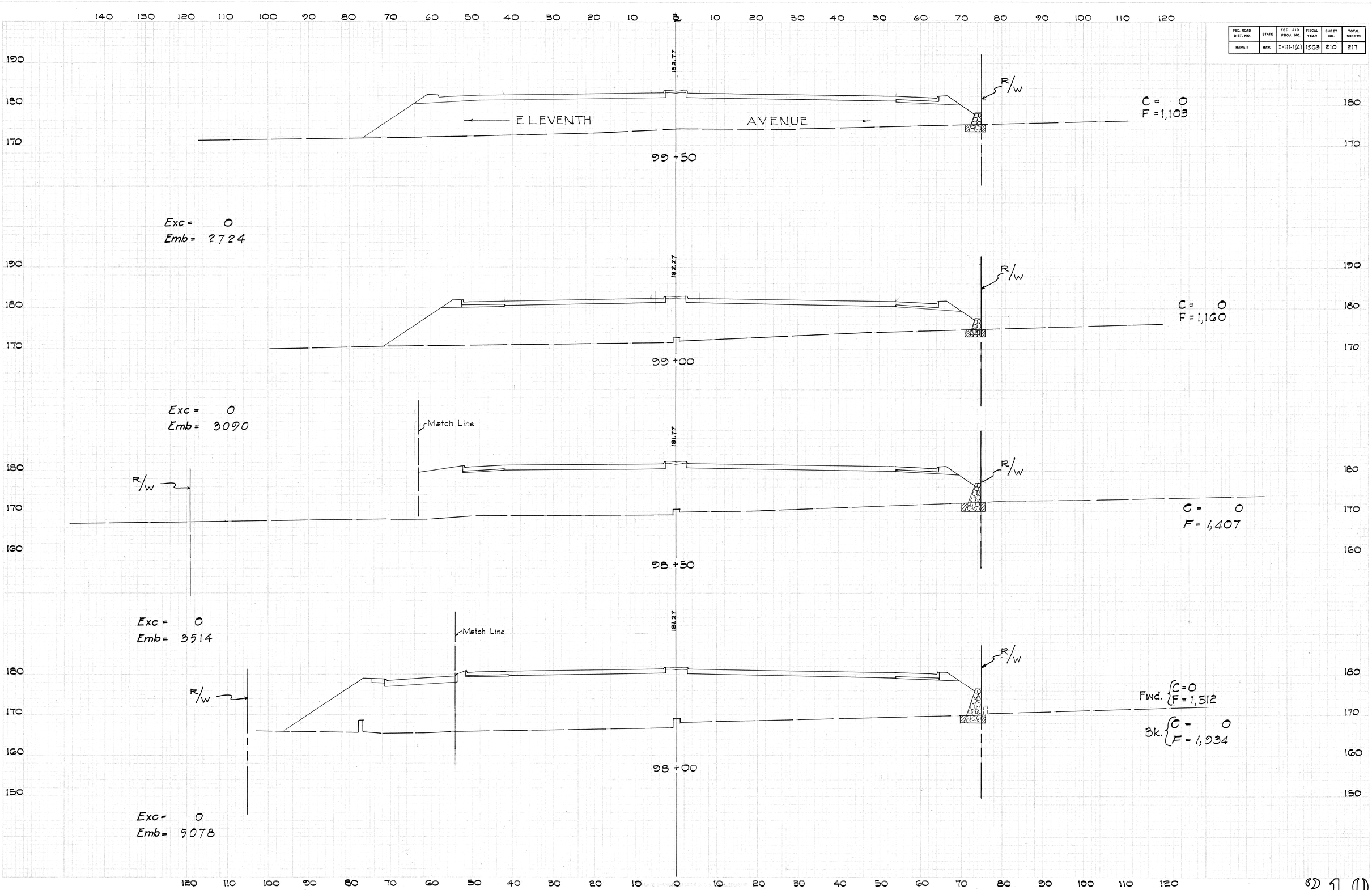
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

208

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	209	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	210	217



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	211	217

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

190
180

R/W

185.27

102+00

C = 262
F = 0

Exc = 243
Emb = 269

190
180

R/W

184.77

101+50

C = 0
F = 224

Exc = 0
Emb = 806

190
180

R/W

184.27

101+00

C = 0
F = 446

Exc = 0
Emb = 1356

190
180
170

R/W

183.77

100+50

C = 0
F = 680

Exc = 0
Emb = 1752

190
180
170

R/W

183.27

100+00

C = 0
F = 776

Exc = 0
Emb = 2262

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	212	217

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

210 200 190 180 170

R/W

RAMP KO

TWELFTH AVENUE

187.52

104+50

Exc = 4881
Emb = 0

C = 3,194
F = 0

187.18

104+00

Exc = 3806
Emb = 0

C = 2,077
F = 0

186.76

103+50

Exc = 3125
Emb = 0

C = 2,034
F = 0

186.27

103+00

Exc = 1907
Emb = 0

C = 1,341
F = 0

185.77

102+50

Exc = 908
Emb = 0

C = 719
F = 0

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	213	217

110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

210 / 200 / 190

R/W

Exc = 7650
Emb = 0

188.15

Ultimate Finish Surface

Bottom of Excavation

106+50

RAMP KO

C = 4,112
F = 0

R/W

210 / 200 / 190

R/W

Exc = 7573
Emb = 0

188.11

106+00

RAMP KO

C = 4,150
F = 0

R/W

210 / 200 / 190

R/W

Exc = 7155
Emb = 0

187.99

105+50

RAMP KO

C = 4,029
F = 0

R/W

210 / 200 / 190 / 180

R/W

Exc = 6381
Emb = 0

187.80

105+00

RAMP KO

C = 3,698
F = 0

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1968	214	217

110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130

R/W

RAMP KO

R/W

C = 3,207
F = 0

210
200
190

187.81

Ultimate Finish Surface

Bottom of Excavation

Exc = 6265
Emb = 0

108+00

R/W

RAMP KO

R/W

C = 3,469
F = 0

210
200
190

188.00

Ultimate Finish Surface

Bottom of Excavation

Exc = 6680
Emb = 0

107+50

R/W

R/W

RAMP KO

C = 3,745
F = 0

210
200
190

188.12

Ultimate Finish Surface

Bottom of Excavation

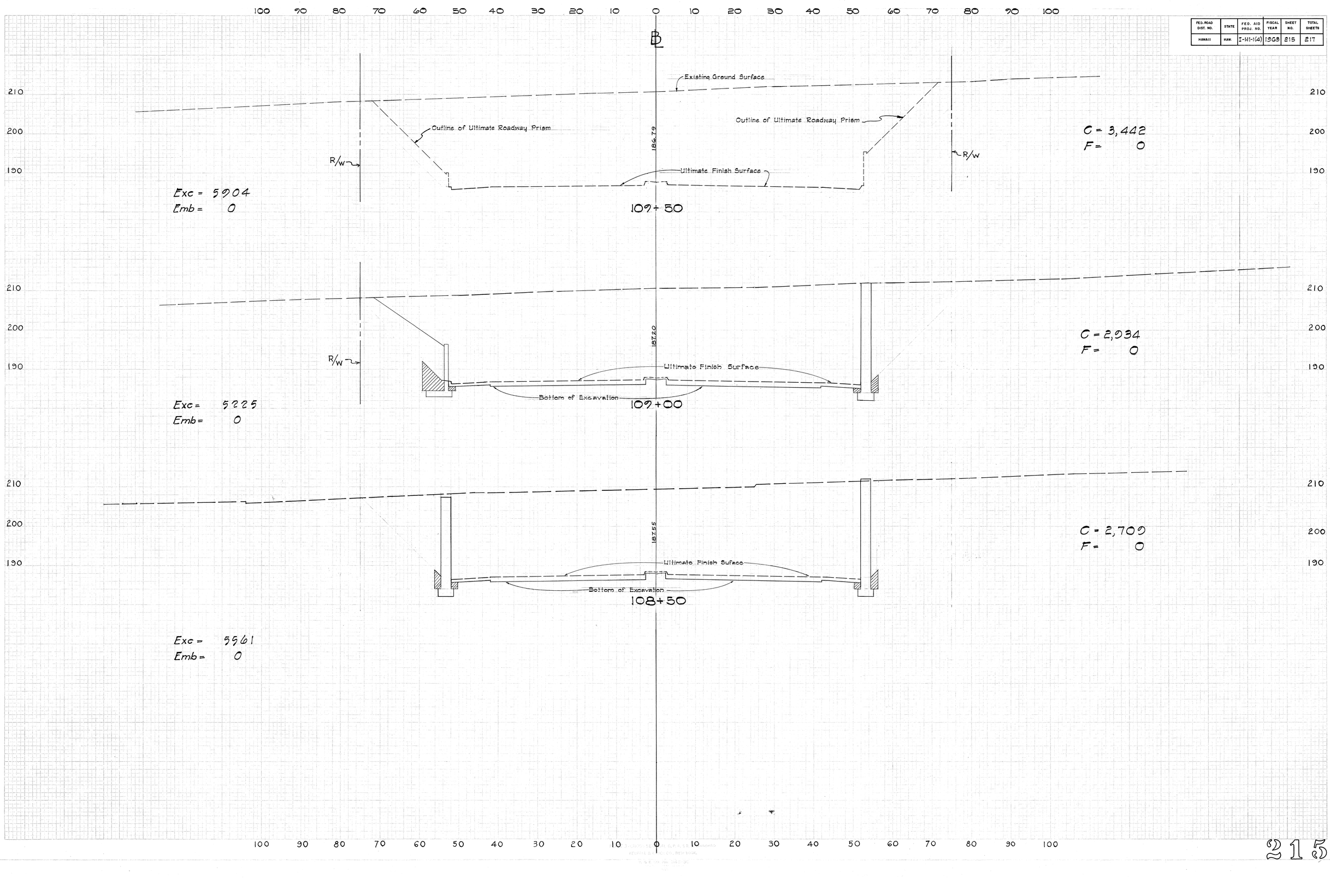
Exc = 7275
Emb = 0

107+00

120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

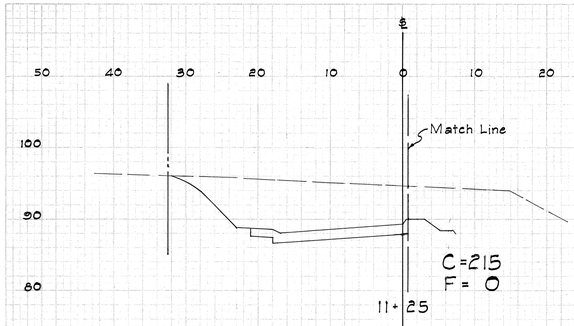
J. H. NEIL CO., PHILADELPHIA.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	215	217

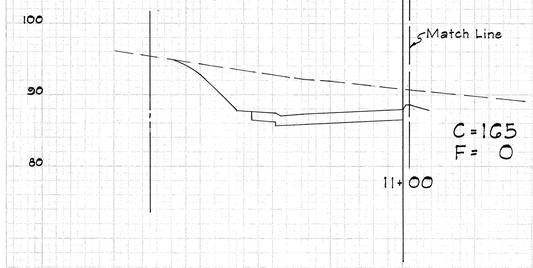


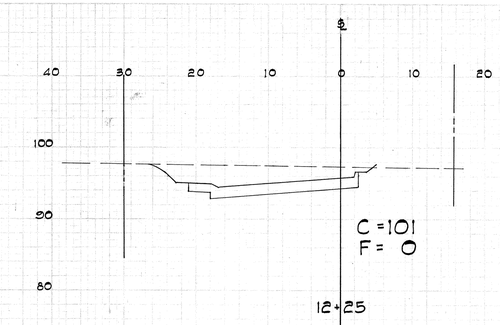
FINAL SURVEY PLOTTED NOTE BOOK TRACED CHECKED BY
ORIGINAL SURVEY PLOTTED NOTE BOOK TRACED CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1963	216	217

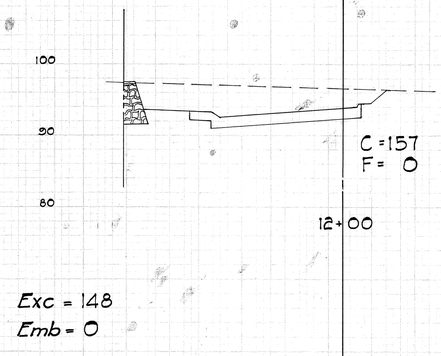


Exc = 176
Emb = 0

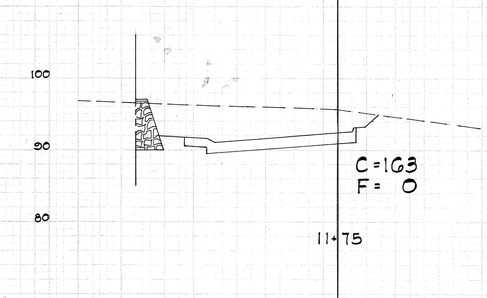




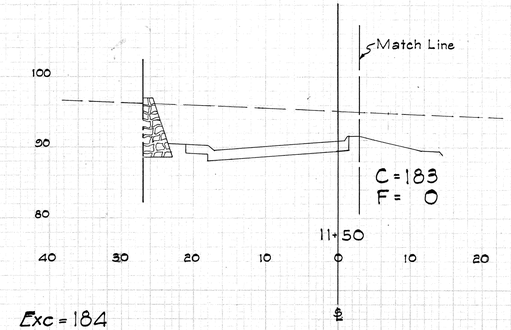
Exc = 119
Emb = 0



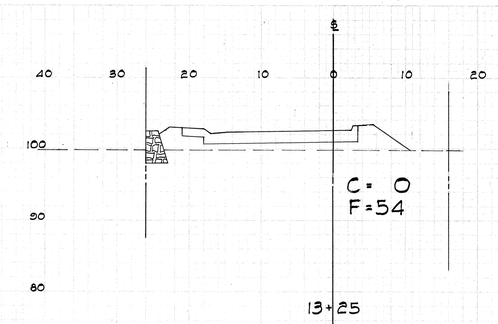
Exc = 148
Emb = 0



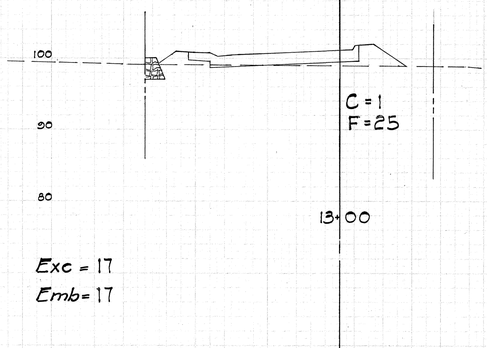
Exc = 160
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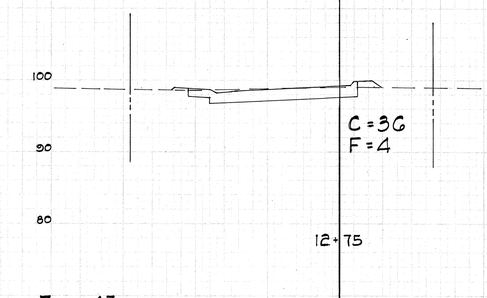
Exc = 184
Emb = 0



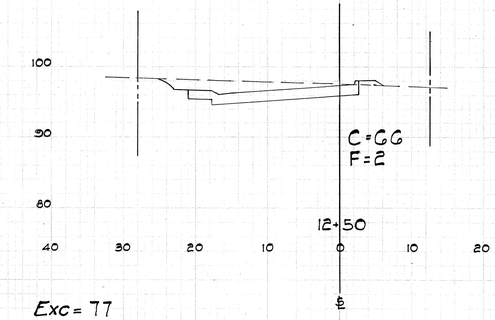
Exc = 1
Emb = 48



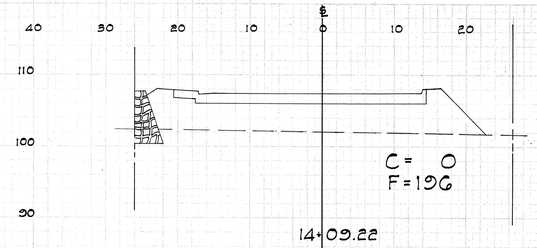
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Emb = 17



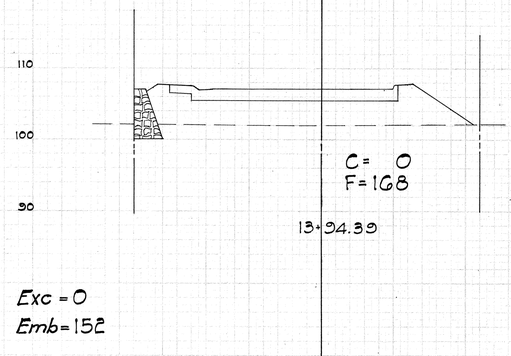
Exc = 47
Emb = 4



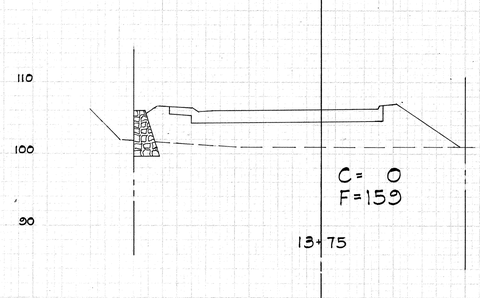
Exc = 77
Emb = 1



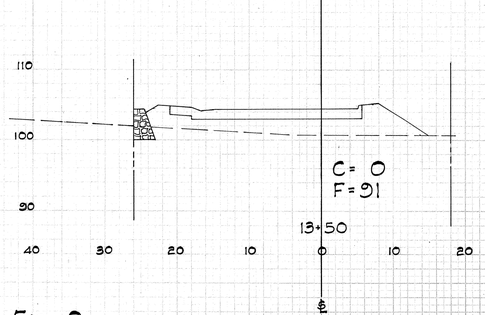
Exc = 0
Emb = 130



Exc = 0
Emb = 152



Exc = 0
Emb = 151



Exc = 0
Emb = 87

RAMP 5-A

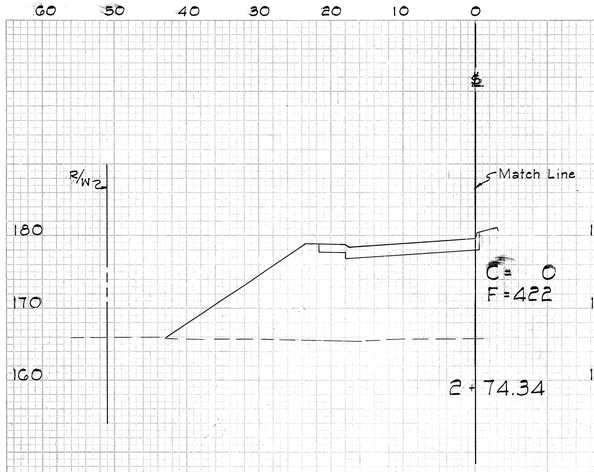
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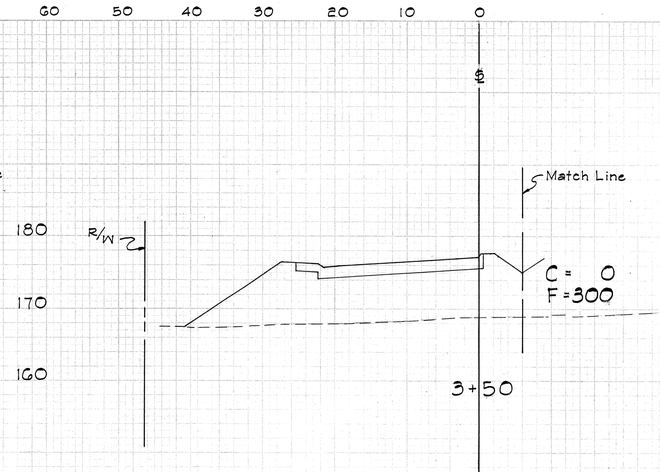
PLATE 3—CROSS SECTION U. P. R. & R. E. STANDARD
J. H. WEIL CO., PHILADELPHIA.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(4)	1968	217	217

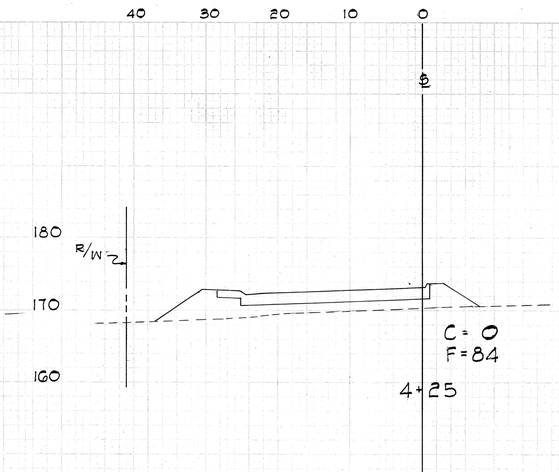
FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — CHECKED — BY — DATE

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

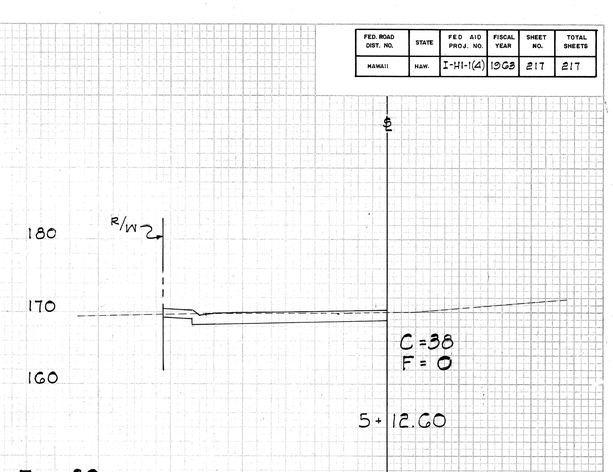




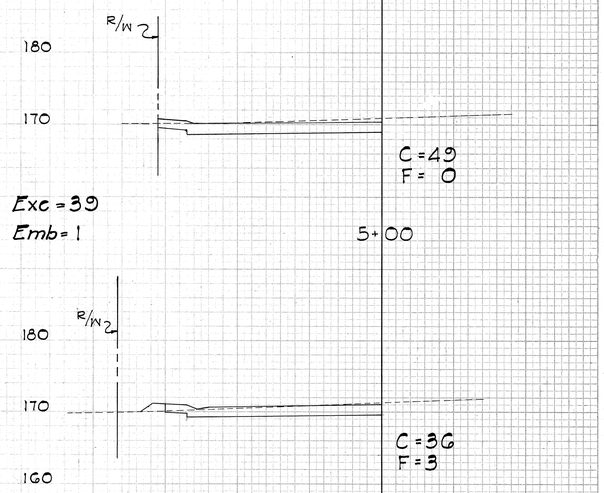
Exc = 0
Emb = 350



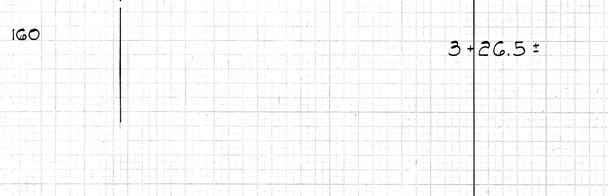
Exc = 0
Emb = 134



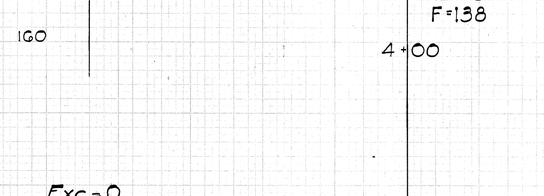
Exc = 20
Emb = 0



Exc = 39
Emb = 1

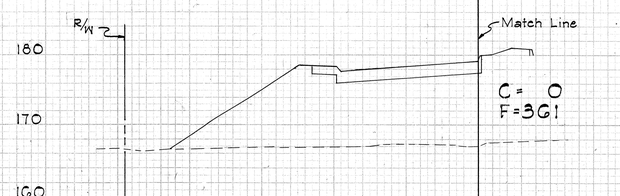


Exc = 0
Emb = 433

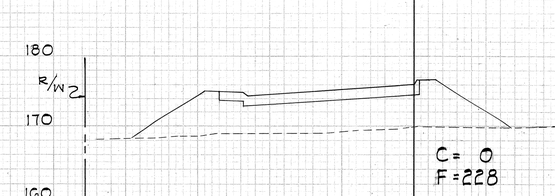


Exc = 0
Emb = 220

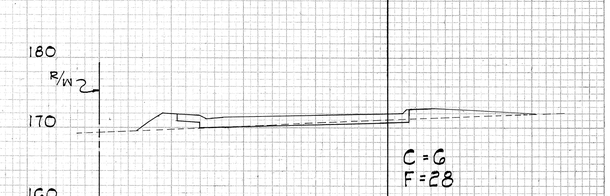
Exc = 19
Emb = 18



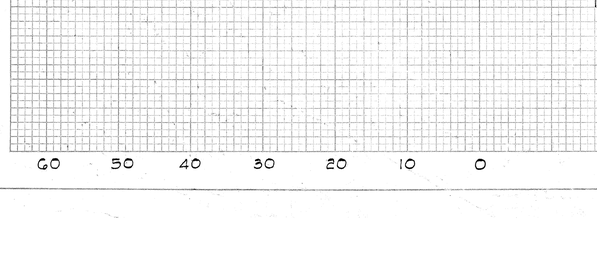
Exc = 0
Emb = 484

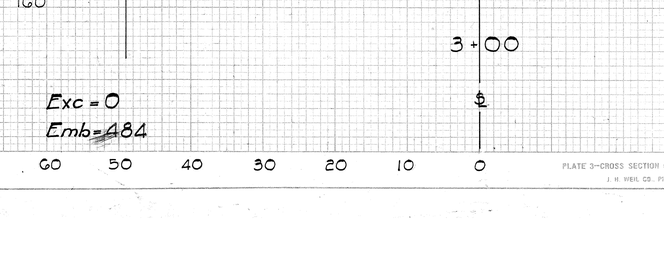


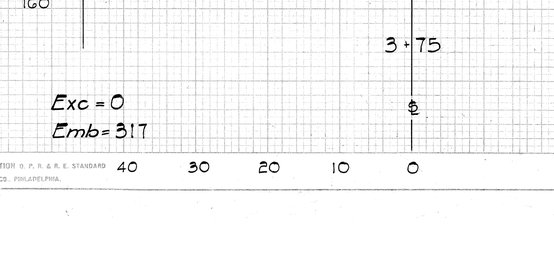
Exc = 0
Emb = 317



Exc = 3
Emb = 68







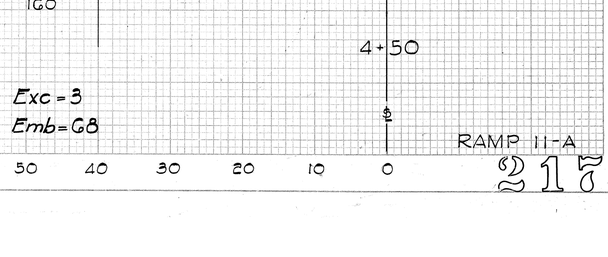


PLATE 3—CROSS SECTION O. P. R. & R. E. STANDARD
J. H. WEIL CO., PHILADELPHIA.

RAMP 11-A

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