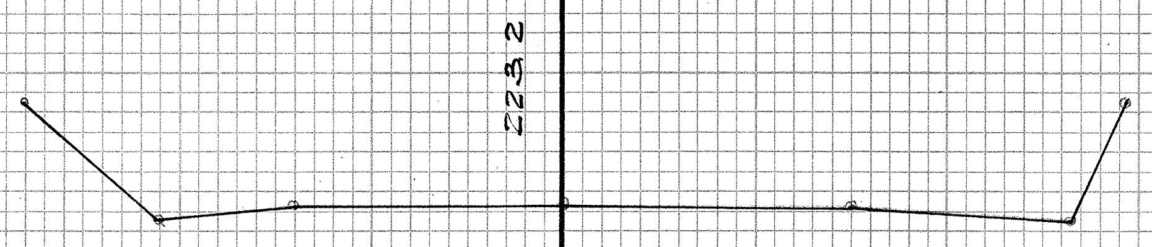
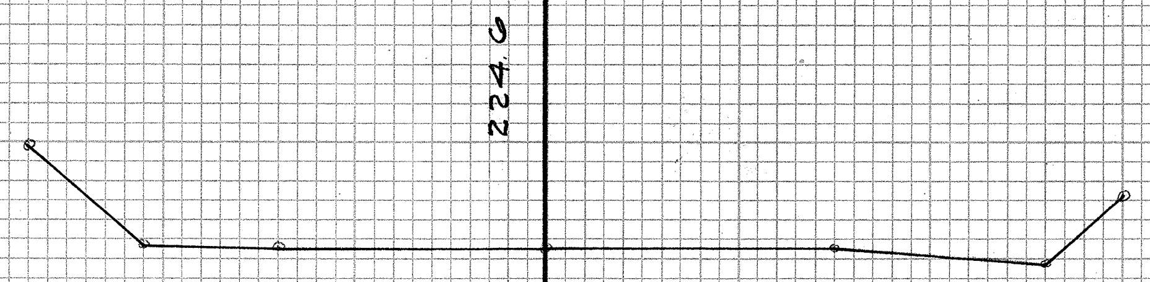
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032(4)	1958	17	41



C = 3
F = 0

Exc. = 5
Emb. = 0

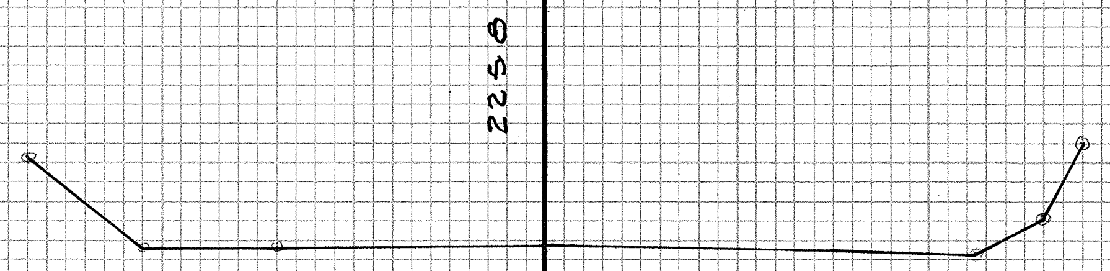
STA. 24+50



C = 2
F = 0

Exc. = 3
Emb. = 0

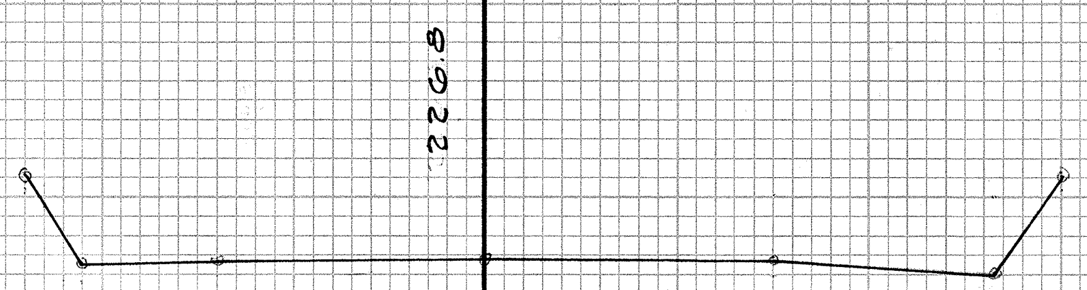
STA. 24+00



C = 1
F = 0

Exc. 1
Emb. 0

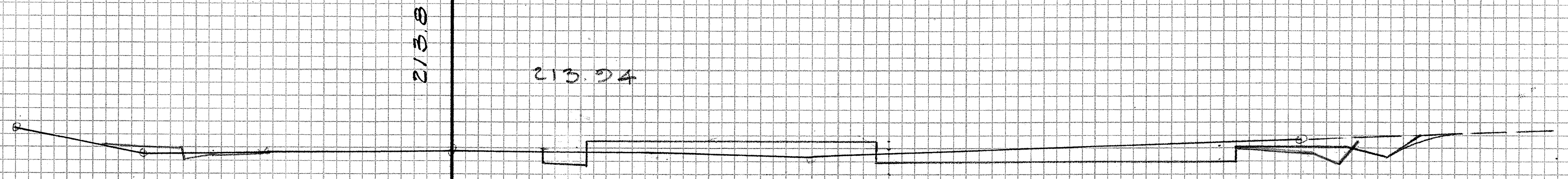
STA. 23+50



C = 0
F = 0

STA. 23+00

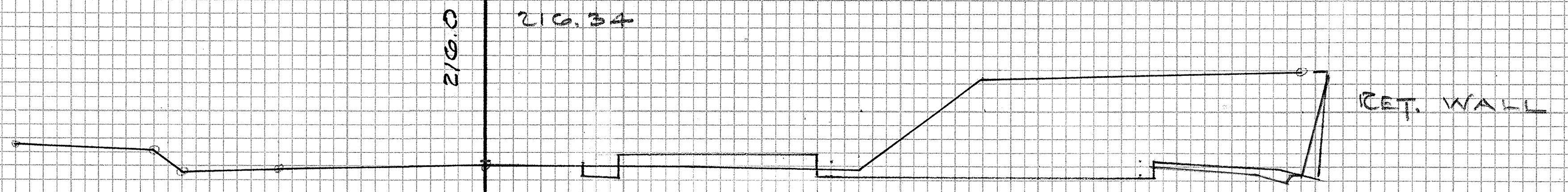
Exc. = ~~24~~ 22
Emb. = ~~36~~ 73



C = ~~46~~ 41
F = ~~22~~ 24

Exc. = ~~239~~ 232
Emb. = ~~33~~ 35

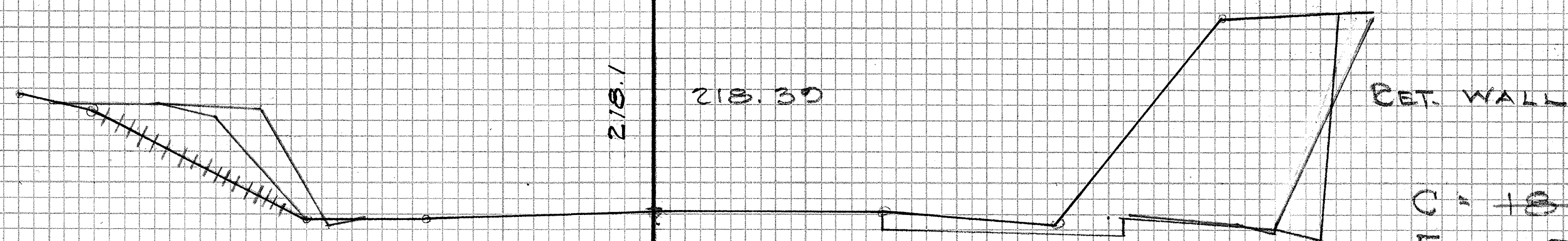
STA. 27+00


216.0
216.34
RET. WALL

C = ~~212~~ 210
F = 14

Exc. = ~~368~~ 352
Emb. = ~~13~~ 32

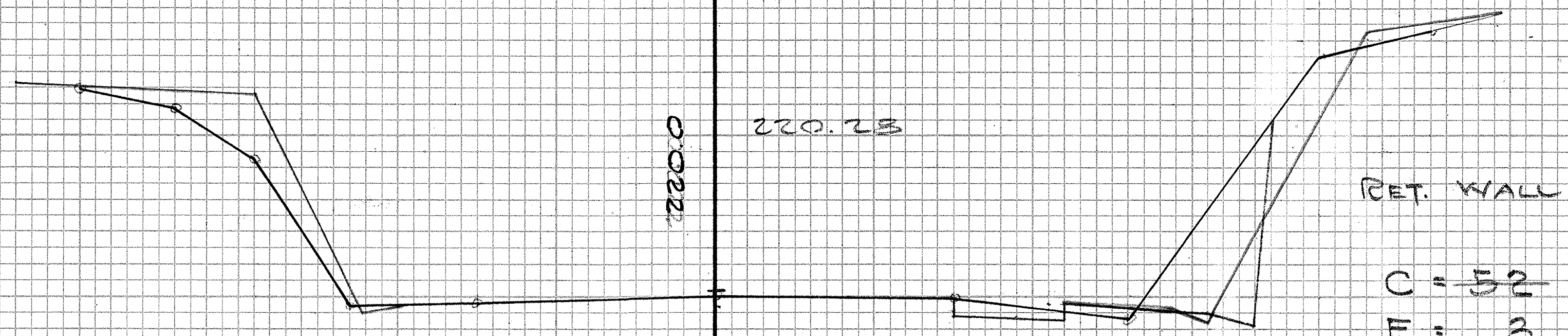
STA. 26+50


218.1
218.39
RET. WALL

C = ~~185~~ 170
F = ~~0~~ 20

Exc. = ~~219~~ 215.7
Emb. = 3 61.1

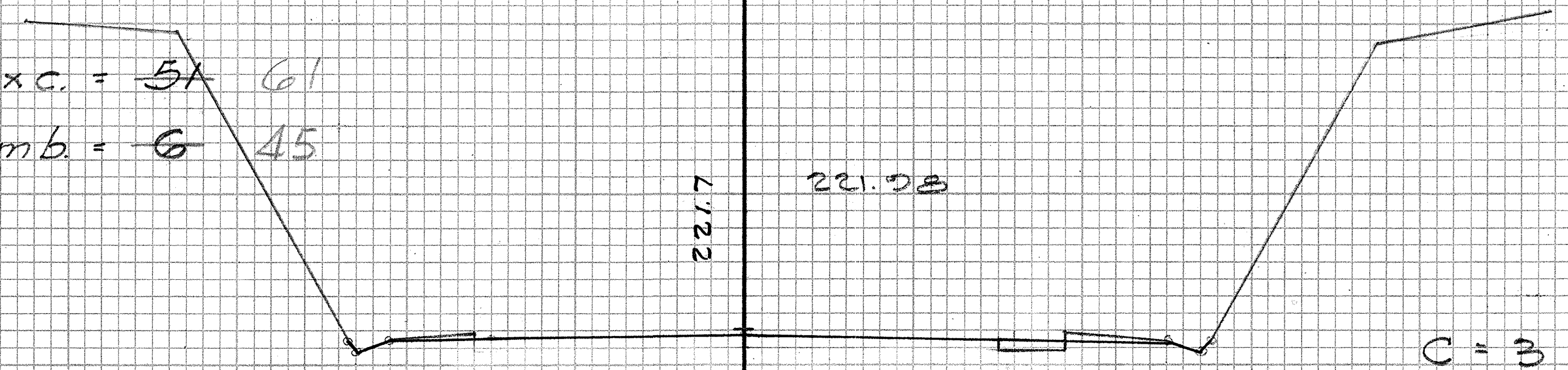
STA. 26+00


220.0
220.23
RET. WALL

C = ~~52~~ 63
F = 3 46

STA. 25+50

Exc. = ~~51~~ 61
Emb. = ~~6~~ 45



C = 3
F = 3

STA. 25+00

Exc. = 6
Emb. = 3

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

ORIGINAL SURVEY | BY | DATE
SURVEYED
PLOTTED
TEMPLATE S.J.B. 6-58
AREAS
AREAS CHECKED
NOTE BOOK
NO.

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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B S243.17

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-0321(4)	1958	18	41

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

ORIGINAL SURVEY	BY	DATE
SURVEYED	M.S.	1-56
PLOTTED	T.O.	6-58
TEMPLATE	K.E.G.	6-58
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

Exc. = 7
Emb. = 3
203.60
~~STA. 4+04~~
C = 12
F = 5
Exc. = 13
Emb. = 16
205.97
~~STA. 4+54~~
C = 2
F = 12
Exc. = 3
Emb. = 94
208.33
~~STA. 5+04~~
C = 1
F = 90
Exc. = 1
Emb. = 77
BLDG.
Exc. = ~~103~~ 131
Emb. = ~~46~~ 144
202.7
203.32
EP
EP
29+00
C = ~~68~~ 88
F = ~~26~~ 96
Exc. = ~~169~~ 234
Emb. = ~~24~~ 144
205.1
206.23
EP
EP
28+50
C = ~~115~~ 165
F = ~~0~~ 60
Exc. = ~~112~~ 158
Emb. = ~~26~~ 128
208.3
208.58
EP
EP
28+00
C = 6
F = ~~28~~ 78
EP
PAVT.
Exc. = 13
Emb. = 54 132
211.0
211.54
EP
EP
27+50
C = 8
F = ~~30~~ 65
Exc. = 5
Emb. = ~~34~~ 80
211.0
212.66
EP
EP
P.T. 27+26.98
C = 3
F = ~~64~~ 122
Exc. = 13
Emb. = 743 1000
190.6
191.31
EP
EP
31+00
C = 2
F = ~~344~~ 469
Exc. = 4
Emb. = 581 783
193.4
194.32
EP
EP
30+50
C = 2
F = ~~237~~ 377
Exc. = 4
Emb. = ~~317~~ 558
196.8
197.32
EP
EP
30+00
C = 2
F = ~~105~~ 226
Exc. = ~~42~~ 51
Emb. = ~~119~~ 264
199.9
200.32
EP
EP
29+50
C = ~~43~~ 53
F = ~~24~~ 59

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B S243.1S

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	19	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED	Garcia	1-58
	TEMPLATE	T O	2-58
	AREAS	S.J.B.	6-58
	AREAS CHECKED		

173.32
172.4
EP
EP
34+00
158.32
157.7
EP
EP
36+50
176.32
175.1
EP
EP
33+50
161.32
160.7
EP
EP
36+00
170.32
178.0
EP
EP
EP
33+00
Side Road
164.32
163.0
EP
EP
35+50
182.32
181.0
EP
EP
32+50
167.32
166.6
EP
EP
35+00
185.32
184.0
EP
EP
32+00
170.32
169.6
EP
EP
34+50
188.32
187.6
EP
EP
31+50

C = ~~538~~ 564
F = 1

Exc. = ~~882~~ 1005
Emb. = 1

C = ~~181~~ 219
F = 17

Exc. = ~~198~~ 247
Emb. = ~~31~~ 32

C = ~~415~~ 522
F = 0

Exc. = ~~582~~ 674
Emb. = 0

C = ~~33~~ 48
F = ~~16~~ 17

Exc. = ~~163~~ 188
Emb. = ~~27~~ 40

C = ~~214~~ 206
F = 0

Exc. = ~~250~~ 256
Emb. = ~~0~~ 29

C = ~~143~~ 155
F = ~~13~~ 26

Exc. = ~~288~~ 315
Emb. = ~~19~~ 32

C = ~~56~~ 70
F = ~~0~~ 31

Exc. = ~~64~~ 77
Emb. = ~~323~~ 542

C = ~~168~~ 185
F = 8

Exc. = ~~356~~ 397
Emb. = ~~9~~ 13

C = 13
F = ~~249~~ 554

Exc. = ~~23~~
Emb. = ~~747~~ 1079

C = ~~216~~ 244
F = ~~2~~ 6

Exc. = ~~698~~ 748
Emb. = ~~3~~ 7

C = 12
F = ~~458~~ 611

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B S243.19

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	20	41

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED	H.S.	1-56
TEMPLATE		
AREAS	K.K.G.	6-57
AREAS CHECKED		

NOTE BOOK
NO.

140.32
139.5
EP
EP
39+50
Exc. ~~71~~ 80
Emb. ~~104~~ 117
143.32
142.5
EP
EP
39+00
Exc. ~~185~~ 180
Emb. ~~61~~ 182
146.32
145.4
EP
EP
EP
EP
38+50
Exc. ~~333~~ 428
Emb. ~~23~~ 131
149.32
148.5
EP
EP
38+00
Exc. = ~~634~~ 769
Emb. = 89
152.32
151.0
EP
EP
37+50
Exc. = ~~591~~ 707
Emb. = 33
155.32
154.6
EP
EP
37+00
Exc. = ~~388~~ 450
Emb. = ~~31~~ 32
C = ~~11~~ 20
F = 59
125.32
124.3
EP
EP
42+00
C = ~~33~~ 65
F = 30
Exc. = ~~49~~ 138
Emb. = 64
C = 66
F = ~~53~~ 67
128.32
127.5
EP
EP
41+50
C = ~~20~~ 84
F = 39
Exc. = ~~44~~ 130
Emb. = ~~44~~ 46
C = ~~134~~ 128
F = ~~13~~ 129
131.32
130.4
EP
EP
41+00
C = ~~28~~ 56
F = ~~8~~ 11
Exc. = ~~53~~ 169
Emb. = ~~34~~ 37
C = ~~285~~ 334
F = 12
134.32
133.0
EP
EP
40+50
C = ~~29~~ 126
F = 29
Exc. = ~~107~~ 245
Emb. = 48
C = ~~400~~ 496
F = 19
137.32
130.4
EP
EP
40+00
C = ~~87~~ 139
F = 23
Exc. = ~~91~~ 147
Emb. = 76
C = ~~238~~ 267
F = 17

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B S243.20

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	21	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED	W. Garcia	1-58
	TEMPLATE		
	AREAS	S.I.S.	6-58
	AREAS CHECKED		

106.6
107.47
EP
EP
45+00
Exc. = 5
Emb. = ~~501~~ 446
C = 2
F = ~~284~~ 239
94.9
95.99
EP
EP
Exc. = 6
Emb. = ~~1593~~ 934
47+50
C = 3
F = ~~596~~ 486
109.3
110.32
EP
EP
44+50
C = 3
F = ~~257~~ 243
Exc. = ~~5~~ 0
Emb. = ~~354~~ 341
96.6
97.87
EP
EP
Exc. = 6
Emb. = ~~1593~~ 925
47+00
C = 3
F = ~~698~~ 523
112.3
113.32
EP
EP
44+00
C = 7
F = 125
Exc. = ~~17~~ 15
Emb. = ~~161~~ 175
98.6
99.95
EP
EP
Exc. = 5
Emb. = ~~1093~~ 822
46+50
C = 3
F = ~~596~~ 476
115.7
116.32
EP
EP
43+50
C = ~~11~~ 9
F = ~~49~~ 64
Exc. = ~~167~~ 193
Emb. = ~~58~~ 72
101.2
102.42
EP
EP
46+00
C = 2
F = ~~530~~ 412
118.6
119.32
EP
EP
43+00
C = ~~169~~ 199
F = 14
Exc. = 5
Emb. = ~~814~~ 640
Exc. = ~~215~~ 243
Emb. = ~~28~~ 54
103.6
104.73
EP
EP
45+50
C = 3
F = ~~349~~ 279
121.7
122.32
EP
EP
C = 63
F = ~~16~~ 44
Exc. = 5
Emb. = ~~586~~ 480
42+50
Exc. = ~~89~~ 119
Emb. = ~~43~~ 69

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B S243.21

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	22	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.____	PLOTTED	M.S.	1-56
	TEMPLATE	L.	6-58
	AREAS		
	AREAS CHECKED		

89.1
89.56
EP
EP
50+00
C = 0
F = ~~301~~ 221
Exc. = 0
Emb. = ~~447~~ 304
90.0
90.52
EP
EP
49+50
C = 0
F = ~~182~~ 107
Exc. = 0
Emb. = ~~666~~ 508
90.6
91.58
EP
EP
49+00
C = 0
F = ~~537~~ 442
Exc. = 4
Emb. = ~~1032~~ 864
91.7
92.95
EP
EP
48+50
C = 4
F = ~~578~~ 491
Exc. = 13
Emb. = ~~2174~~ 1809
93.5
~~48+00~~
84.7
84.76
EP
EP
52+50
C = 40
F = ~~70~~ 5
Exc. = 37
Emb. = 226 126
85.6
85.72
EP
EP
52+00
C = 0
F = ~~174~~ 131
Exc. = 3
Emb. = 411 362
86.3
86.68
EP
EP
51+50
C = 3
F = ~~270~~ 260
Exc. = 5
Emb. = ~~304~~ 413
87.3
87.64
EP
EP
51+00
C = 2
F = ~~256~~ 186
Exc. = 3
Emb. = 416 383
88.3
88.60
EP
EP
50+50
C = 1
F = ~~293~~ 228
Exc. = 1
Emb. = 550 416

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
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B S243.22

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-0321(4)	1958	23	41

Side Road
EP
EP
70.0
70.00
55+50
Exc. = ~~1746~~ 1767
Emb. = 8
72.7
72.96
EP
EP
55+00
Exc. = ~~1105~~ 1128
Emb. = 10
80.02
80.7
EP
EP
54+50
Exc. = ~~372~~ 381
Emb. = ~~9~~ 56
81.0
81.88
EP
EP
EP
54+00
Exc. = ~~82~~ 88
Emb. = ~~13~~ 59
82.5
82.84
EP
EP
53+50
Exc. = ~~67~~ 61
Emb. = ~~23~~ 175
83.0
83.80
EP
EP
53+00
Exc. = ~~71~~ 66
Emb. = ~~81~~ 173
C: 1041
F: 1
C: ~~845~~ 867
F: 8
C: ~~348~~ 351
F: 3
C: ~~54~~ 60
F: ~~7~~ 57
C: 35
F: 7
C: ~~37~~ 31
F: ~~18~~ 182
Side Road
EP
EP
Exc. = ~~18~~ 28
Emb. = ~~708~~ 676
EP
EP
Exc. = ~~89~~ 25
Emb. = ~~297~~ 300
EP
EP
Exc. = ~~520~~ 501
Emb. = ~~6~~ 17
EP
EP
Exc. = ~~985~~ 959
Emb. = 0
EP
EP
Exc. = ~~1509~~ 1503
Emb. = 1
73.5
74.20
58+00
C: ~~10~~ 14
F: ~~463~~ 423
74.5
75.16
57+50
C: ~~9~~ 16
F: ~~302~~ 307
75.0
76.12
57+00
C: 87
F: ~~7~~ 17
76.0
77.08
56+50
C: ~~475~~ 454
F: 1
77.0
78.04
56+00
Side Road
C: ~~589~~ 582
F: 0

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED	M.S.	1-56
NO.	TEMPLATE	S.J.B.	6-58
	AREAS		
	AREAS CHECKED		

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B 8243.23

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	24	41

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

ORIGINAL SURVEY
NOTE BOOK
NO. ____
SURVEYED N Garcia 1-56
PLOTTED ____
TEMPLATE ____
AREAS K Garcia 6-57
AREAS CHECKED ____
BY
DATE

68.6
69.40
EP
EP
60+50
Exc. = 5
Emb. = ~~1028~~ 1156
C: 4
F: ~~664~~ 523
69.7
70.36
EP
EP
60+00
C: 1
F: ~~446~~ 725
Exc. = 5
Emb = ~~1098~~ 1234
70.6
71.32
EP
EP
59+50
Exc. = 11
Emb. = ~~1275~~ 1060
C: 4
F: 740 608
72.28
71.5
EP
EP
59+00
Exc. = 18
Emb. = ~~1150~~ 1019
C: 8
F: ~~637~~ 537
72.4
73.20
EP
EP
58+50
Exc. = ~~19~~ 23
Emb. = ~~989~~ 913
C: 11
F: ~~605~~ 563
65.56
64.8
EP
EP
62+50
C: 1025
F: 4
Exc. = ~~1224~~ 1182
Emb. = ~~9~~ 37
66.52
65.7
EP
EP
62+00
C: 297 252
F: 6 36
Exc. = ~~275~~ 233
Emb. = ~~107~~ 198
66.7
67.48
EP
EP
61+50
C: 0
F: 123 178
Exc. = 0
Emb. = ~~554~~ 522
68.44
67.6
EP
EP
360
61+00
C: 0
F: 475 386
Exc. = 4
Emb. = ~~1055~~ 842

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B 8243.24

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-03C1(4)	1958	25	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED	N. Garcia	1-58
	TEMPLATE		
NO.	AREAS		6-58
	AREAS CHECKED		

61.0
61.72
EP
EP
64+30
C: 885 457
F: 8
Exc. = ~~1679~~ 1056
Emb = 22
61.5
62.68
EP
EP
64+00
C: 928 683
F: 16
Exc. = ~~2004~~ 1692
Emb. = 23
62.1
63.64
EP
EP
63+50
C: 1236 1144
F: 0
Exc. = ~~2392~~ 2313
Emb. = 11
63.8
64.60
EP
EP
63+00
C: 1347 1354
F: 3
Exc. = ~~2196~~ 2203
Emb. = ~~6~~ 7
57.0
57.88
EP
EP
66+50
C: 52
F: ~~257~~ 352
Exc. = ~~56~~ 64
Emb. = ~~519~~ 657
58.2
58.34
EP
EP
66+00
C: 8 17
F: ~~304~~ 357
Exc. = ~~40~~ 45
Emb. = ~~557~~ 609
59.3
59.80
EP
EP
65+50
C: ~~35~~ 32
F: ~~297~~ 301
Exc. = ~~334~~ 208
Emb. = ~~281~~ 284
60.3
60.76
EP
EP
65+00
C: ~~426~~ 123
F: 6
Exc. = ~~1121~~ 602
Emb. = 13
60.0
64+70
OMMITED

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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B 8243.25

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	26	41

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

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED M.S. 1-56
TEMPLATE
AREAS [illegible] 6-57
AREAS CHECKED
BY
DATE

53.08
52.4
EP
EP
69+00
C = 271 263
F = 1
Exc. = 266 258
Emb. = 96 187
54.04
53.3
EP
EP
68+50
C = 16
F = 103 201
Exc. = 18
Emb. = 236 327
Side Road
55.00
54.0
EP
EP
68+00
C = 3
F = 152
Exc. = 12
Emb. = 507
Side Road
55.96
55.2
EP
EP
67+50
C = 10
F = 395
Exc. = 23
Emb. = 570 726
56.92
56.0
EP
EP
67+00
C = 15
F = ~~22+~~ 389
Exc. = 62
Emb. = ~~443~~ 686
49.24
48.5
EP
EP
71+00
C = ~~521~~ 428
F = 3
Exc. = ~~1097~~ 917
Emb. = 5
50.20
49.4
EP
EP
70+50
C = ~~664~~ 562
F = 2
Side Road
Exc. = ~~745~~ 618
Emb. = 15
51.16
50.4
EP
EP
70+00
C ~~141~~ 105
F = 14
Exc. = ~~162~~ 129
Emb. = ~~108~~ 108
52.12
51.2
EP
EP
69+50
C = 34
F = 103
Exc. = ~~282~~ 275
Emb. = 96

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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B 243.26

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	27	41

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

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED M.S. 1-56
TEMPLATE "
AREAS S.J.B. 6-58
AREAS CHECKED

45.40
45.1
EP
EP
73+00
C = ~~1234~~ 1170
F = 3
Exc. = ~~1847~~ 1766
Emb. = 9
42.52
41.8
EP
EP
74+50
C = 944
F = 2
46.36
45.8
Exc. = ~~1476~~ 1789
Emb. = 5
EP
EP
72+50
C = ~~860~~ 737
F = 7
43.48
43.0
Exc. = ~~1361~~ 1243
Emb. = 18
EP
EP
74+00
C = 987
F = 3
47.32
46.0
Exc. = ~~1593~~ 1734
Emb. = 7
EP
EP
72+00
C = ~~795~~ 605
F = 12
44.44
43.9
Exc. = ~~1120~~ 891
Emb. = 15
EP
EP
73+50
C = ~~1,022~~ 886
F = 5
48.28
47.8
Exc. = ~~1964~~ 1904
Emb. = 7
EP
EP
71+50
C = ~~365~~ 357
F = 4
Exc. = ~~883~~ 727
Emb. = 6

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EUGENE DIETZGEN CO.

B S243.27

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-038-1(4)	1958	28	91

38.0
38.68
EP
EP
76 +50
C = 288
F = 6
Exc. = 0
Emb. = ~~584~~ 432
Exc. = 420
Emb. = 9
351
35.80
EP
EP
78 +00
C = 0
F = ~~241~~ 166
38.9
39.64
EP
EP
76 +00
C = 165
F = 4
Exc. = ~~174~~ 165
Emb. = ~~231~~ 161
35.8
36.76
EP
EP
Exc. = 387
Emb. = 8
77 +50
C = ~~188~~ 178
F = 8
Exc. = ~~600~~ 489
Emb. = 10
39.8
40.60
EP
EP
75 +50
C = 253
F = 5
37.72
36.8
EP
EP
Exc. = ~~532~~ 718
Emb. = 9
77 +00
C = ~~460~~ 350
F = 3
Exc. = ~~693~~ 591
Emb. = 8
40.7
41.56
C = 522
F = 5
EP
EP
75 +00
Exc. = 1,358
Emb. = 6

FINAL SURVEY

NOTE BOOK

NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY

NOTE BOOK

NO.

	BY	DATE
SURVEYED		
PLOTTED	N. Garcia	1-58
TEMPLATE		
AREAS	S.J.B.	6-58
AREAS CHECKED		

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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B 8243.28

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032(4)	1958	29	41

31.1
31.96
EP
EP
80+00
Exc. = 591 474
Emb. = 18 22
C = 10
F = 386 350
Exc. = 10
Emb. = ~~599~~ 526
29.08
28.4
EP
EP
81+50
C = 262 199
F = 11 16
32.02
33.1
EP
EP
79+50
Exc. = 437 348
Emb. = 96 67
C = 1
F = 261 218
Exc. = 1
Emb. = ~~539~~ 432
30.04
29.0
EP
EP
81+00
C = 210 177
F = 93 56
33.88
33.1
EP
EP
79+00
Exc. = 312 235
Emb. = 180 80
C = 0
F = 321 249
Exc. = 0
Emb. = ~~658~~ 508
31.00
30.1
EP
EP
80+50
C = 127 77
F = 101 30
34.84
34.1
EP
EP
78+50
Exc. = 127 81
Emb. = 451 352
C = 0
F = 390 300

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED	N. Garcia	1-58
NOTE BOOK TEMPLATE		
AREAS	S.J.B.	6-58
NO. AREAS CHECKED		

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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B S243.29

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	30	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED	N. Garcia	1-58
	TEMPLATE		
NO.	AREAS	L. L.	2-58
	AREAS CHECKED		

25.24
24.5
EP
EP
83+50
Exc. = ~~1,552~~ 1490
Emb. = ~~7~~ 8
C = ~~131~~ 111
F = 7
Exc. = ~~169~~ 150
Emb. = ~~19~~ 45
22.36
22.0
EP
EP
85+00
C = ~~878~~ 836
F = 3 6
26.20
25.6
EP
EP
83+00
Exc. = ~~1,030~~ 1025
Emb. = ~~5~~ 63
C = 51
F = ~~14~~ 42
Exc. = ~~271~~ 251
Emb. = ~~19~~ 45
23.32
22.9
EP
EP
84+50
C = ~~293~~ 271
F = ~~2~~ 62
27.16
26.4
EP
EP
82+50
Exc. = ~~338~~ 312
Emb. = ~~2~~ 57
C = ~~242~~ 220
F = 7
Exc. = ~~572~~ 494
Emb. = 14
Side Road
24.28
23.4
EP
EP
84+00
Side Road
C = 66
F = 0
28.12
27.4
EP
EP
82+00
Exc. = ~~182~~ 164
Emb. = ~~6~~ 7
C = ~~376~~ 313
F = 8

PLATE 3 CROSS SECTION B. P. R. & R. E. STANDARD
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B S243.30

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	31	41

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED	N Garcia	1-58
NOTE BOOK TEMPLATE		
AREAS	S.J.B.	6-58
NO. AREAS CHECKED		

Exc. = ~~712~~ 491
Emb. = 12
18.52
17.0
EP
EP
87+00
C: ~~814~~ 646
F = 4
14.0
15.64
EP
EP
88+50
C: ~~503~~ 351
F: 0
Exc. = ~~1,532~~ 1323
Emb. = 5
Exc. = ~~957~~ 697
Emb. = 17
19.0
19.58
EP
EP
86+50
C: ~~840~~ 783
F: 1
15.8
16.60
EP
EP
88+00
C: ~~531~~ 402
F: 0
Exc. = ~~1473~~ 1397
Emb. = 2
Exc. = ~~1,065~~ 790
Emb. = 15
19.9
20.44
EP
EP
86+00
C: ~~751~~ 726
F: 1
17.56
16.7
EP
EP
87+50
C: ~~619~~ 451
F = 7
Exc. = ~~1,434~~ 1388
Emb. = ~~6~~ 4
Exc. = ~~1,327~~ 1016
Emb. = 10
21.0
21.40
EP
EP
85+50
C: ~~798~~ 773
F: ~~5~~ 3

B S243.31

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	32	41

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO. ____

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED	M.S.	1-58
TEMPLATE		
AREAS	S.J.B.	2-58
AREAS CHECKED		

NOTE BOOK
NO. ____

11.80
11.1
EP
EP
90+30
Exc. = ~~347~~ 259
Emb. = ~~10~~ 80
C: ~~20~~ 16
F: ~~7~~ 47
Exc. = ~~267~~ 261
Emb. = ~~9~~ 46
8.85
8.3
EP
EP
92+50
C: ~~291~~ 206
F: 3
12.76
12.2
EP
EP
90+00
Exc. = ~~568~~ 388
Emb. = 7
C: ~~350~~ 266
F: 3
9.42
8.8
EP
EP
92+00
C: ~~322~~ 213
F: 5
Exc. = ~~395~~ 308
Emb. = 5
13.18
12.8
EP
EP
89+78
Exc. = ~~507~~ 337
Emb. = 10
C: ~~622~~ 490
F: 9
10.10
9.4
EP
EP
91+50
C: ~~226~~ 151
F: 6
Exc. = ~~553~~ 408
Emb. = 6
13.72
13.1
EP
EP
89+50
Exc. = ~~236~~ 162
Emb. = ~~16~~ 46
C: ~~444~~ 296
F: 3
10.90
10.2
EP
EP
91+00
C: ~~29~~ 24
F: ~~11~~ 44
Exc. = ~~657~~ 440
Emb. = ~~6~~ 7
14.68
13.9
EP
EP
89+00
Exc. = ~~45~~ 37
Emb. = ~~17~~ 84
C: ~~266~~ 179
F: 4

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
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EUGENE DIETZGEN CO.

B S243.32

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	33	41

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED	M.S.	1-58
	TEMPLATE	S.J.B.	6-58
NO.	AREAS		
	AREAS CHECKED		

8.34
8.43
7.6
CULV'T.
8.43
EP
TOP HW
EP
95+00
C: ~~37~~ 0
F: ~~143~~ 215
Exc. ~~74~~ 21
Emb. ~~167~~ 280
8.33
8.33
7.7
8.33
Exc. = ~~31~~ 36
Emb. = ~~38~~ 57
EP
EP
94+50
C = ~~43~~ 23
F = ~~37~~ 87
8.35
8.71
8.2
8.71
9.07
Exc. = ~~100~~ 49
Emb. = ~~42~~ 120
EP
EP
96+31
C: ~~54~~ 67
F = 59
8.31
8.42
8.31
7.3
8.31
Exc. = ~~55~~ 39
Emb. = 88
EP
EP
94+00
C = ~~65~~ 30
F = ~~8~~ 43
7.7
8.61
8.79
Exc. = ~~98~~ 33
Emb. = ~~77~~ 132
EP
EP
96+00
C = ~~42~~ 0
F = 95
8.42
8.50
8.42
7.3
8.42
EP
EP
93+50
Exc. = ~~73~~ 0
Emb. = ~~171~~ 218
C = ~~41~~ 6
F = ~~75~~ 100
8.34
8.52
7.4
8.52
8.52
Exc. = ~~116~~ 74
Emb. = ~~77~~ 169
EP
EP
95+50
C = ~~37~~ 0
F = ~~90~~ 140
8.0
8.65
EP
EP
93+00
C = ~~84~~ 74
F = ~~8~~ 83
Exc. = ~~69~~ 0
Emb = ~~197~~ 329

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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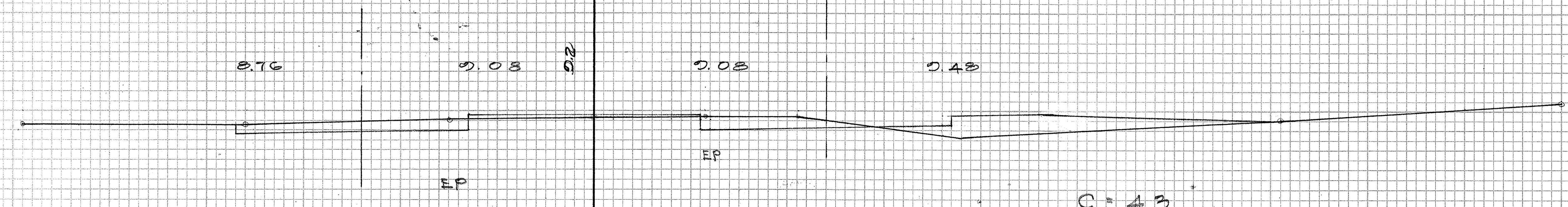
B 8243.33

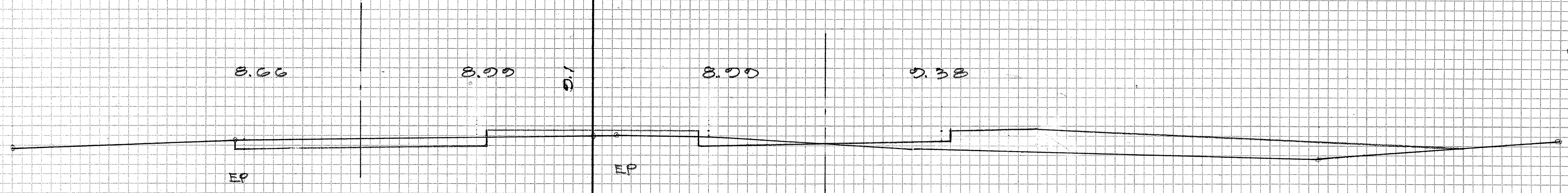
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	34	41


8.76
9.08
9.2
9.08
9.48
EP
EP

C = 43
F = 54

STA. 98+50

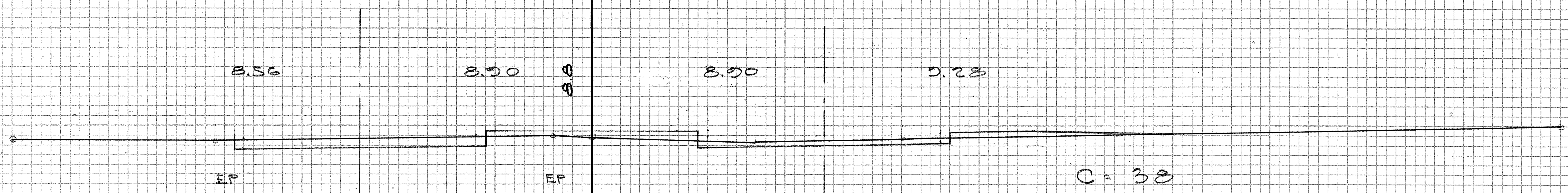
Exc. = 70
Emb. = 148


8.66
8.99
9.1
8.99
9.38
EP
EP

C = 33
F = 106

STA. 98+00

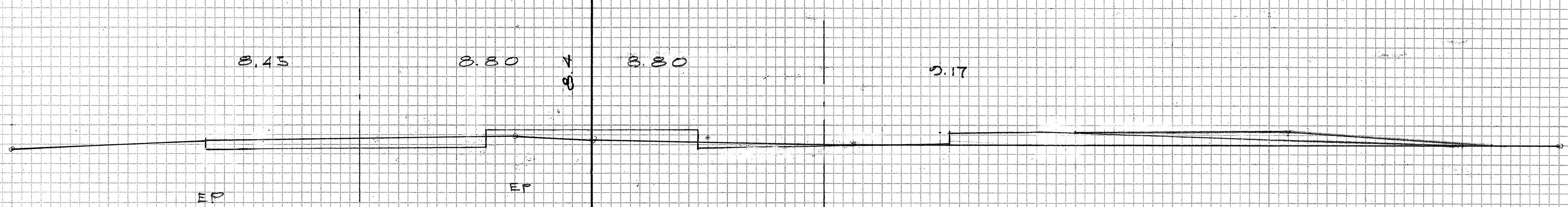
Exc. = 66
Emb. = 126


8.56
8.90
8.8
8.90
9.28
EP
EP

C = 38
F = 30

STA. 97+50

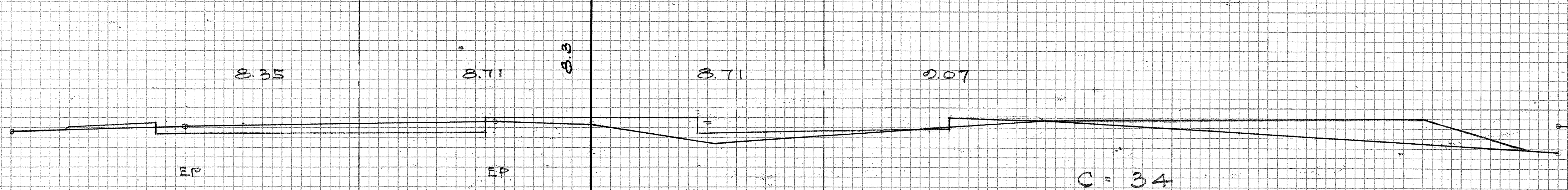
Exc. = 68
Emb. = ~~80~~ 89


8.45
8.80
8.4
8.80
9.17
EP
EP

C = 35
F = ~~56~~ 66

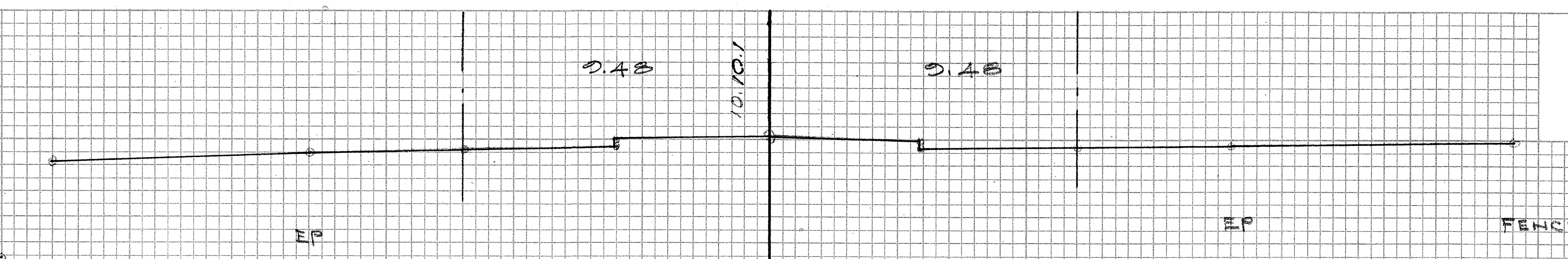
STA. 97+00

Exc = 64
Emb. = ~~96~~ 157


8.35
8.71
8.3
8.71
9.07
EP
EP

C = 34
F = ~~48~~ 103

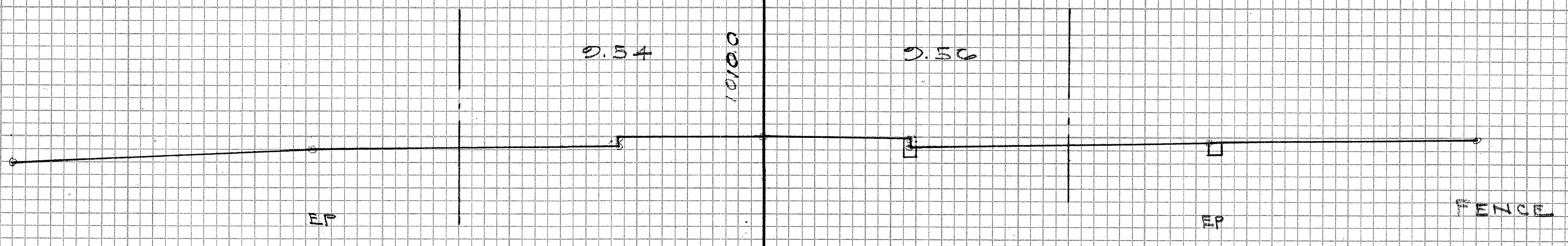
STA. 96+50


9.48
10.101
9.48
EP
EP
FENCE

C = 0
F = 0

P.T. STA. 100+75.81

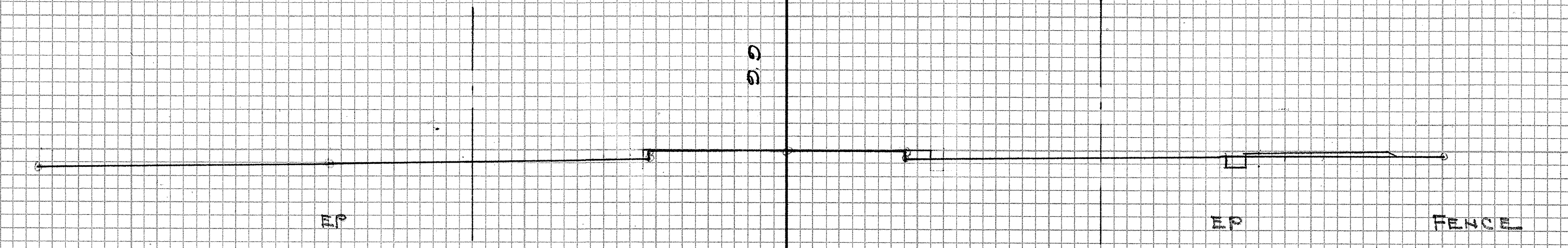
Exc. = 1
Emb. = 0


9.54
10.00
9.56
EP
EP
FENCE

C = 2
F = 0

STA. 100+50

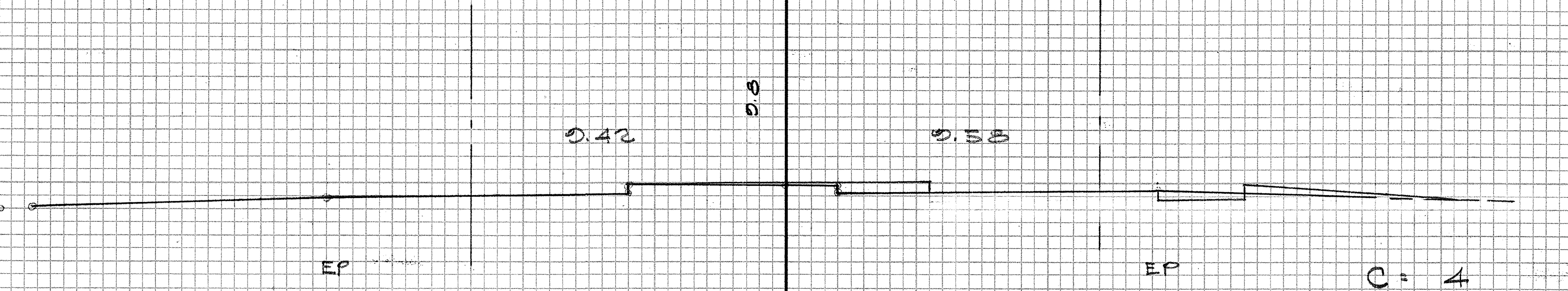
Exc. = 3
Emb. = 6


9.9
EP
EP
FENCE

C = 1
F = 6

Exc. = 5
Emb. = ~~18~~ 27

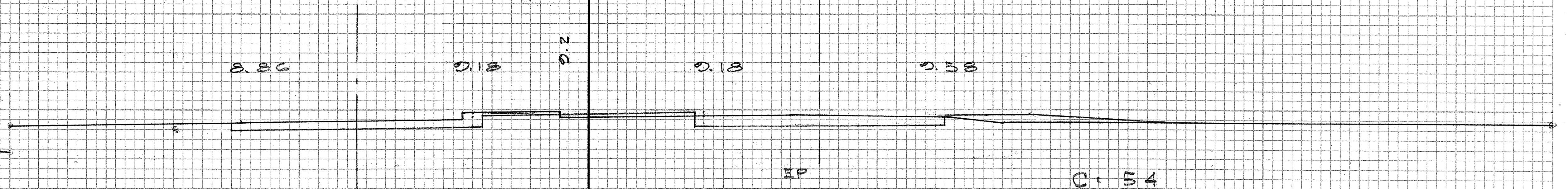
STA. 100+00


9.8
9.42
9.58
EP
EP

C = 4
F = 13

STA. 99+50

Exc. = 54
Emb. = 25


8.86
9.18
9.2
9.18
9.38
EP

C = 54
F = 14

STA. 99+00

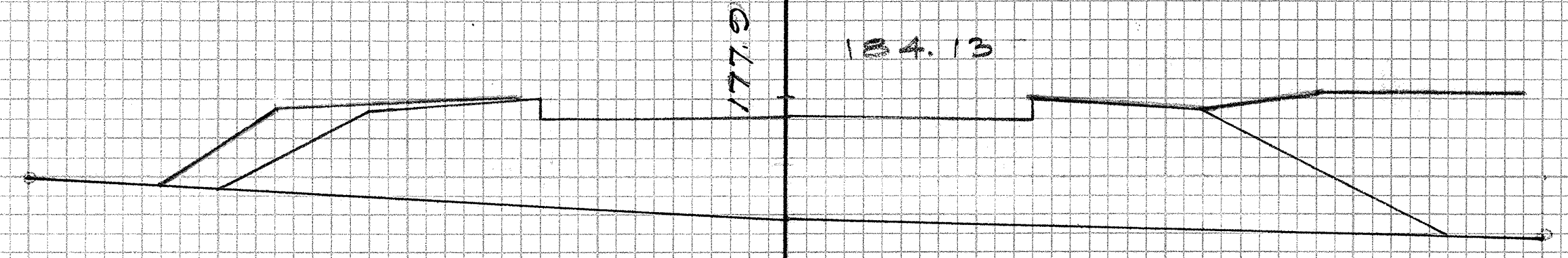
Exc. = 90
Emb. = 63

B S243.34

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-038-1(4)	1958	35	41

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

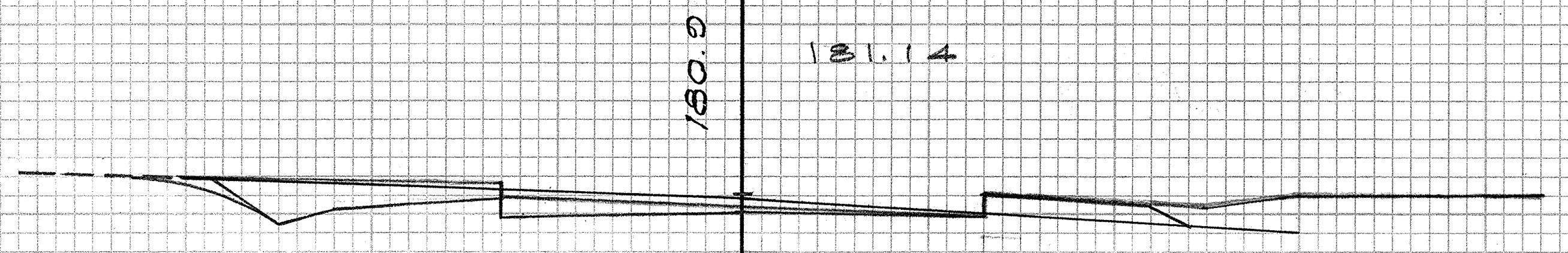
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS	S J B	6-58
	AREAS CHECKED		



C = 0
F = ~~316~~ 336

STA. 2+50

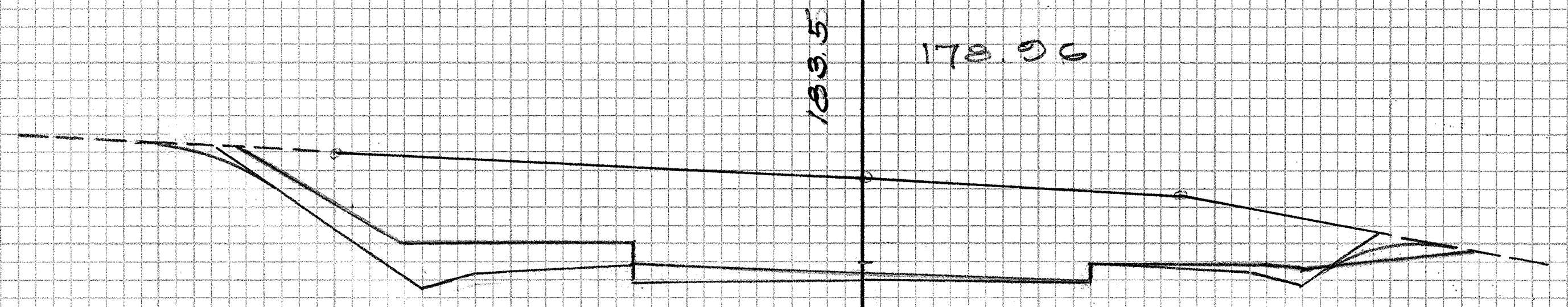
Exc. = ~~43~~ 12
EMB. = ~~361~~ 384



C = ~~30~~ 11
F = 8

P.T. STA. 1+89.77

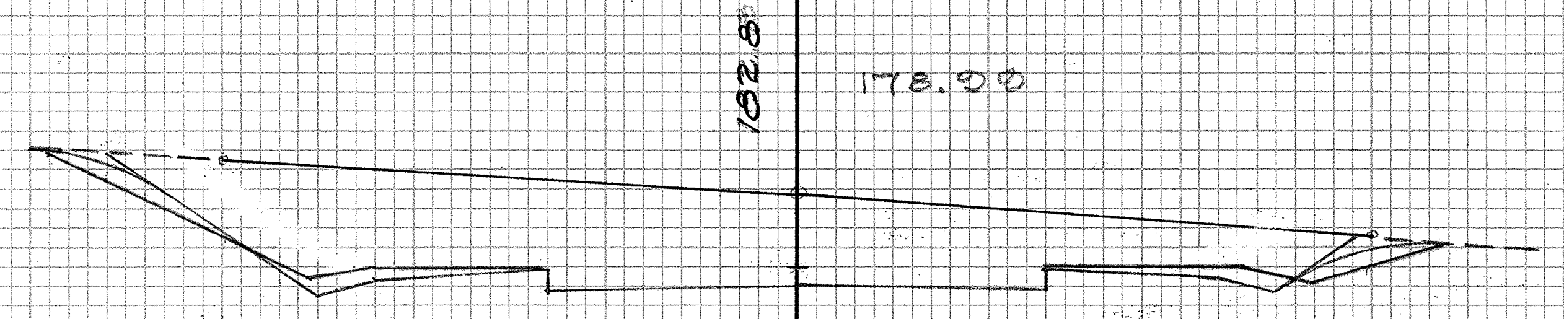
Exc. = ~~332~~ 251
EMB. = ~~8~~ 7



C = ~~323~~ 284
F = 0

STA. 1+43.89

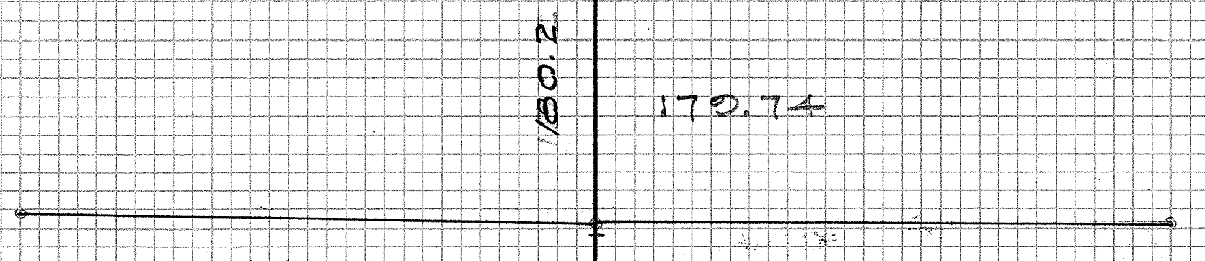
Exc. = ~~552~~ 478
EMB. = 0



C = 278
F = 0

P.C. STA. 0+98

Exc. = 257
EMB. = 0

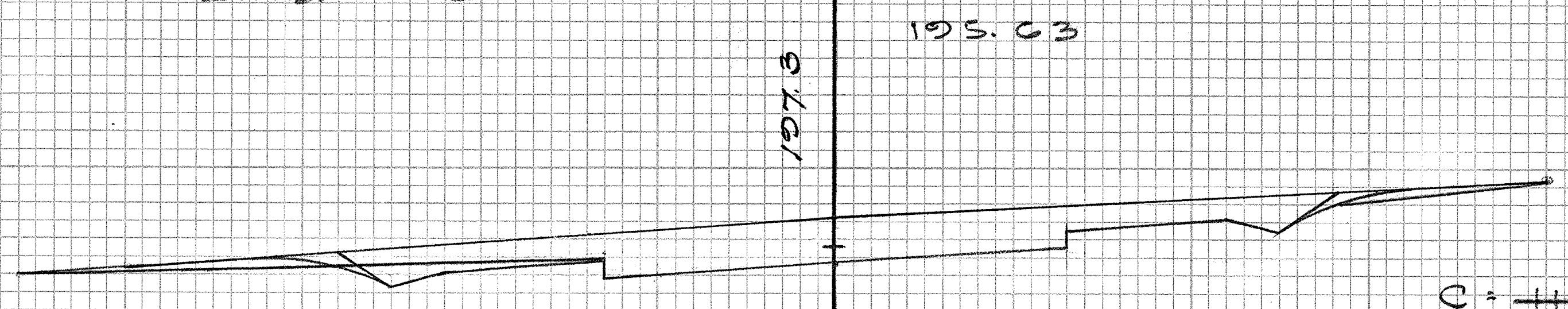


C = 0
F = 0

APPROACH

STA. 0+48

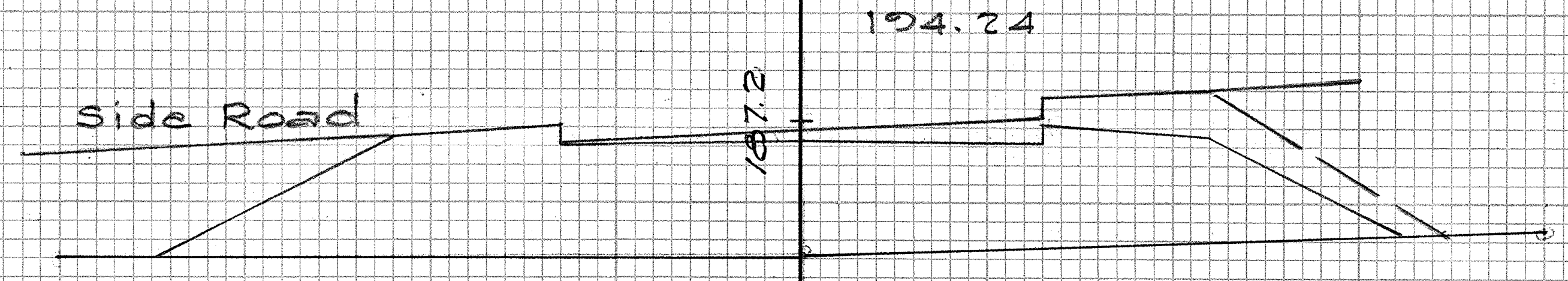
Exc. = ~~103~~ 96
EMB. = 0



C = ~~116~~ 120
F = 0

STA. 4+72

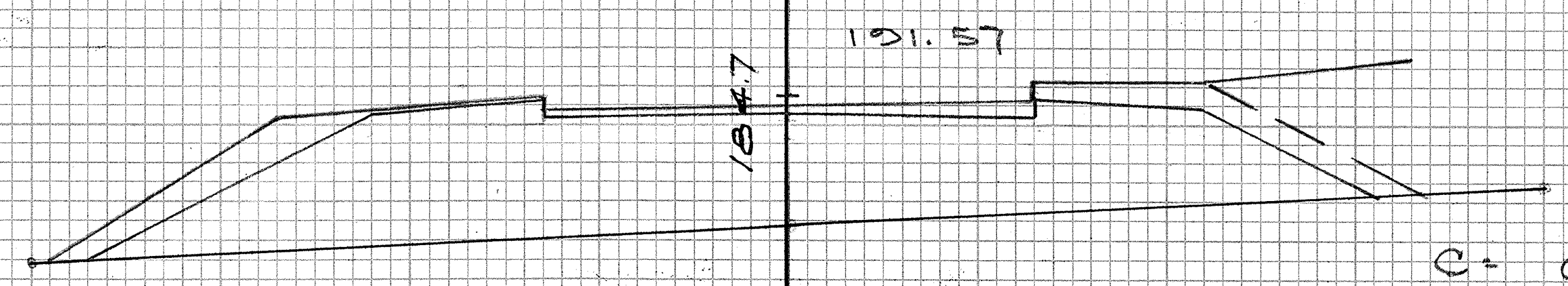
Exc. = ~~37~~ 38
EMB. = ~~112~~ 127


187.2
194.24
Side Road

C = 0
F = ~~351~~ 398

P.C. STA. 4+54.81

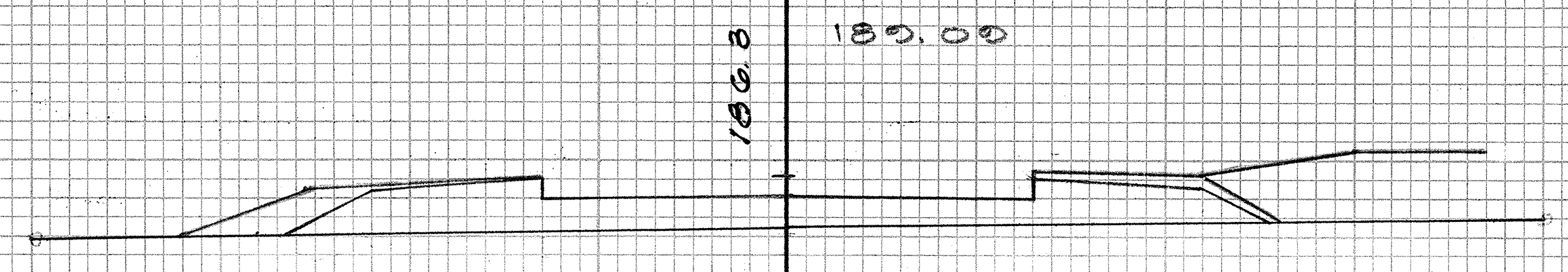
Exc. = 0
EMB. = ~~705~~ 818



C = 0
F = ~~344~~ 408

STA. 4+00

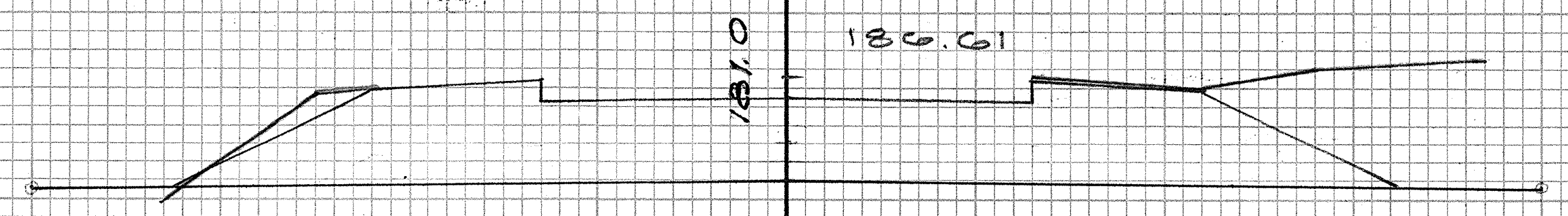
Exc. = 0
EMB. = ~~404~~ 474



C = 0
F = ~~52~~ 104

STA. 3+50

Exc. = 0
EMB. = ~~334~~ 351

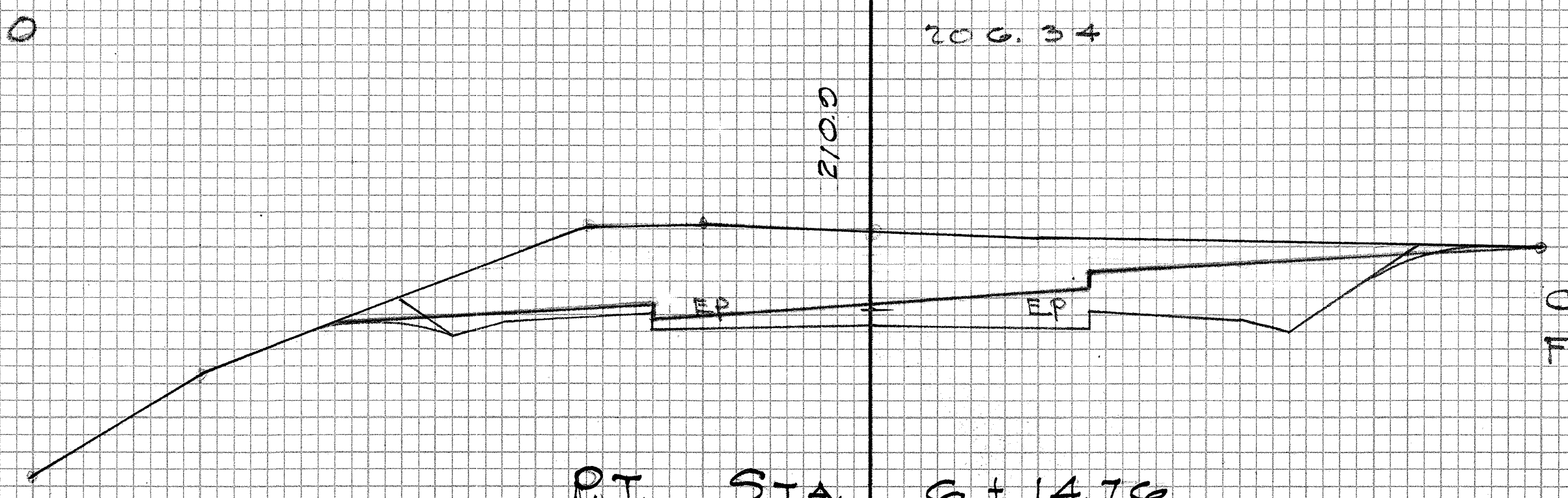


C = 0
F = ~~269~~ 275

Exc. = 0
EMB. = ~~342~~ 566

STA. 3+00

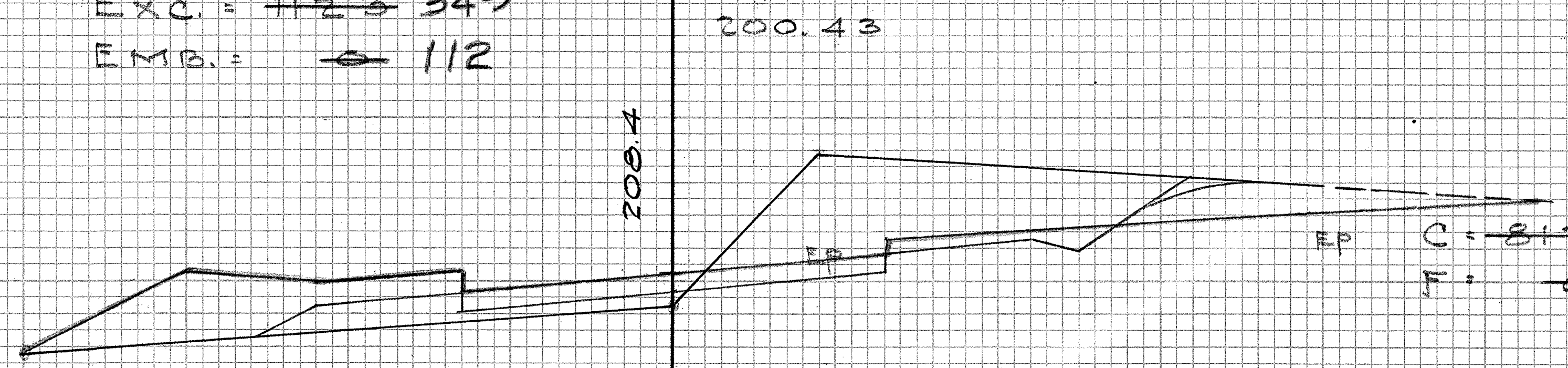
Exc. = ~~386~~ 266
EMB. = 0


210.0
206.34
EP
EP

C = ~~295~~ 212
F = 0

P.T. STA. 6+14.76

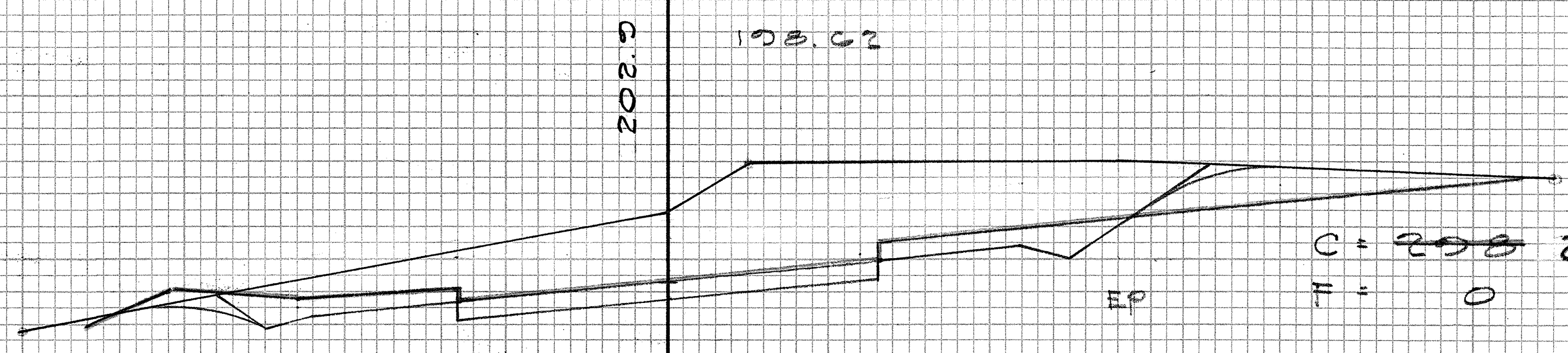
Exc. = ~~1123~~ 349
EMB. = ~~0~~ 112


208.4
200.43
EP
EP

C = ~~812~~ 132
F = ~~0~~ 110

Exc. = ~~518~~ 181
EMB. = ~~0~~ 51

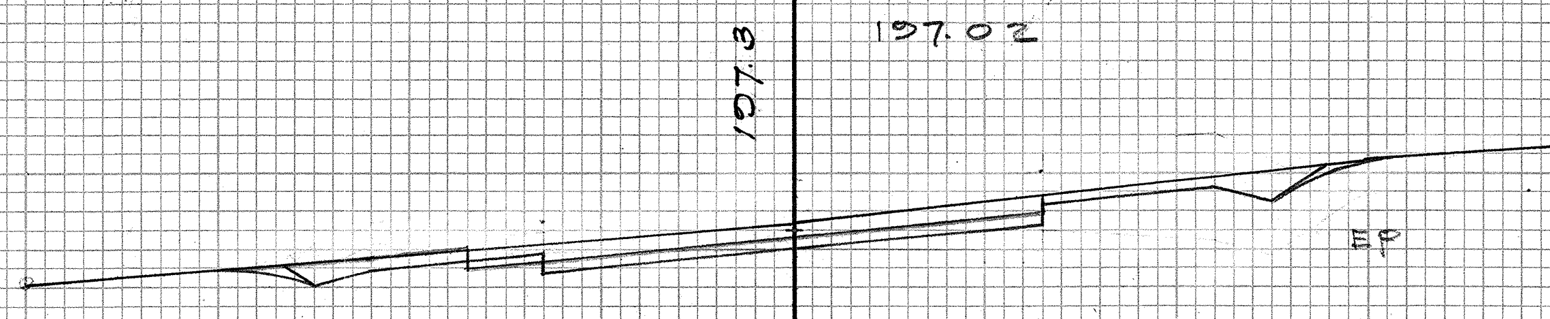
STA. 5+60


202.9
198.62
EP

C = ~~298~~ 256
F = 0

STA. 5+34.79

Exc. = ~~202~~ 170
EMB. = 0


197.3
197.02
EP

C = ~~56~~ 43
F = 0

STA. 5+04

SAND HILL ACCESS ROAD

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
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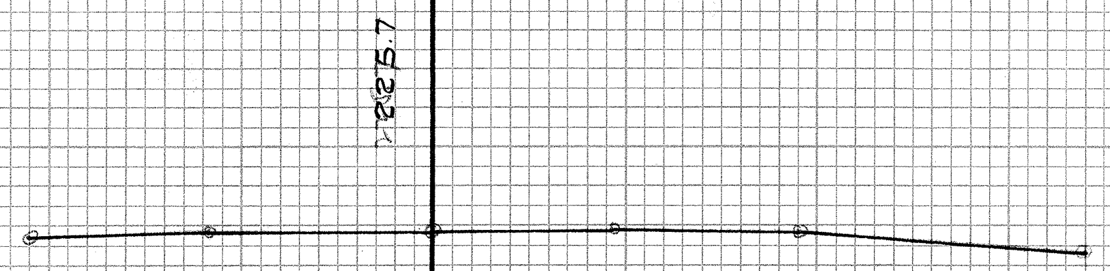
EUGENE DIETZGEN CO.

B S243.35

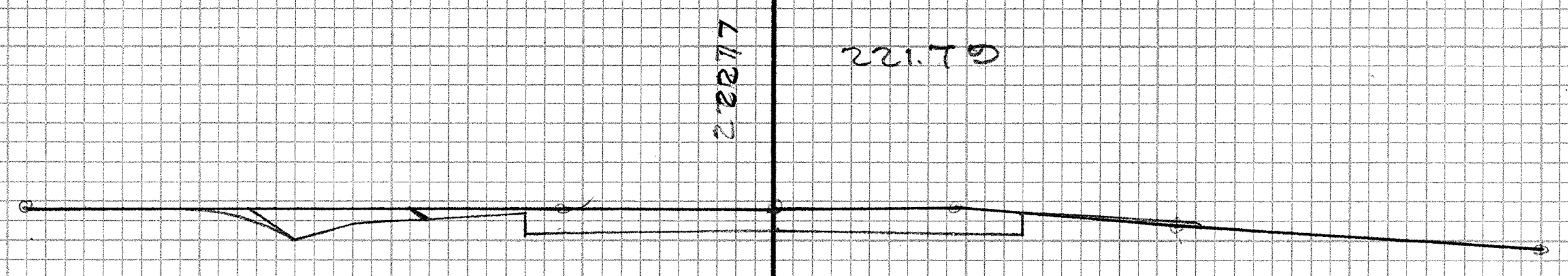
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	36	41



C: 0
F: 0

STA. 8+00

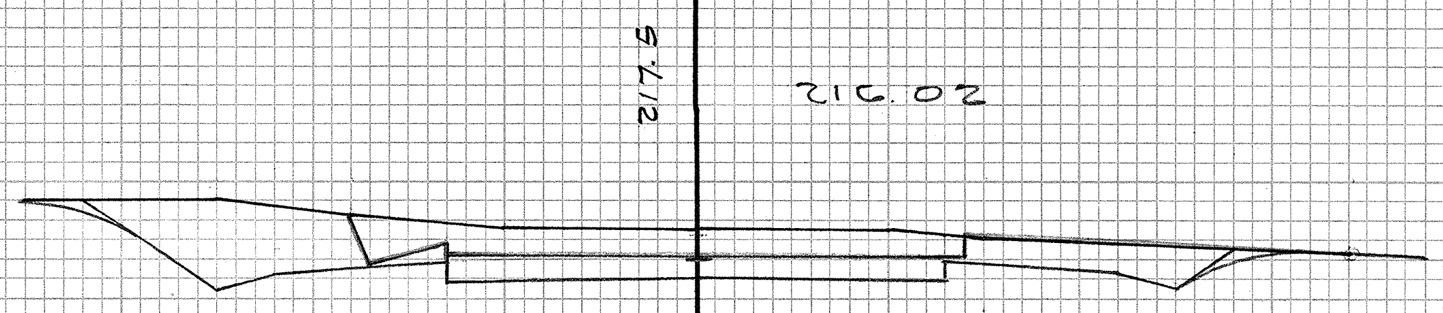
Exc. = 54
Emb. = 0



C = ~~58~~ 50
F = 0

STA. 7+50

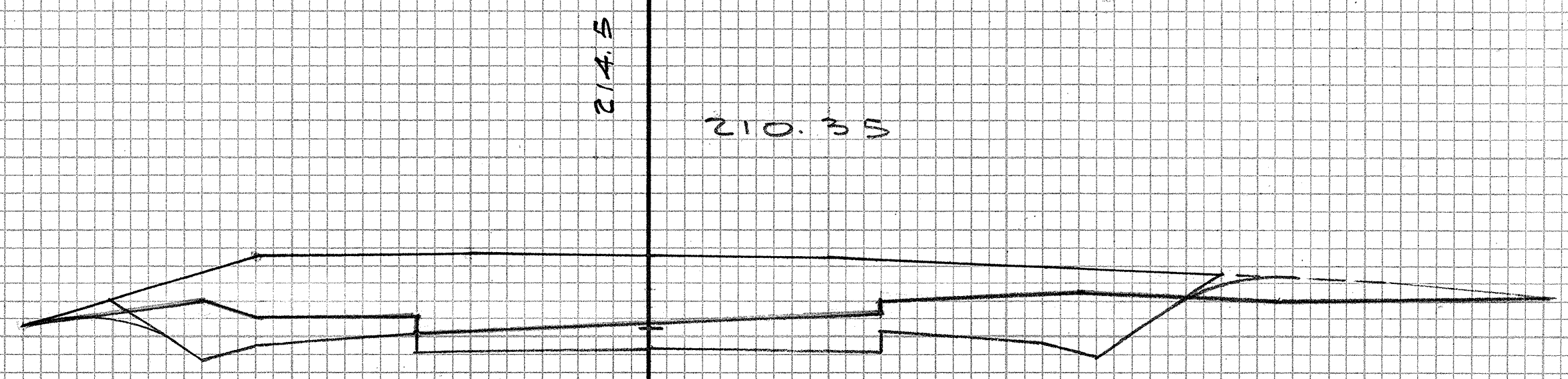
Exc. = ~~197~~ 90
Emb. = 0



C = ~~155~~ 47
F = 0

STA. 7+00

Exc. = ~~419~~ 224
Emb. = 0



C = ~~297~~ 195
F = 0

STA. 6+50

SAND HILLS ACCESS ROAD

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

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

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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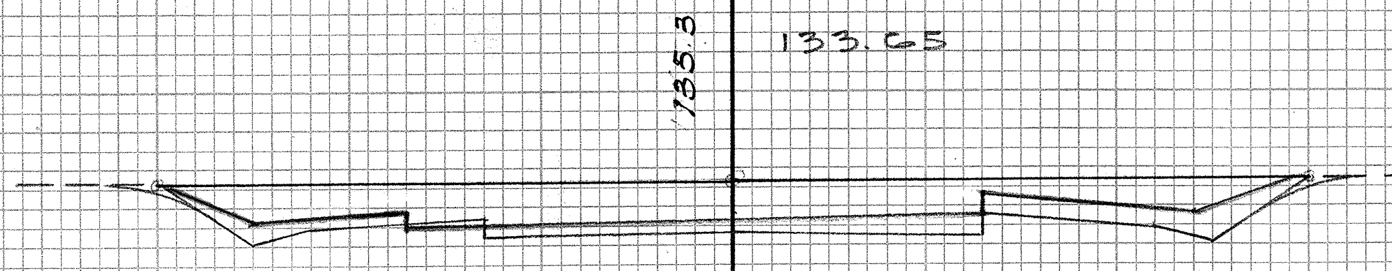
EUGENE DIETZGEN CO.

B S243.36

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	OF-03C-1(4)	1958	37	41

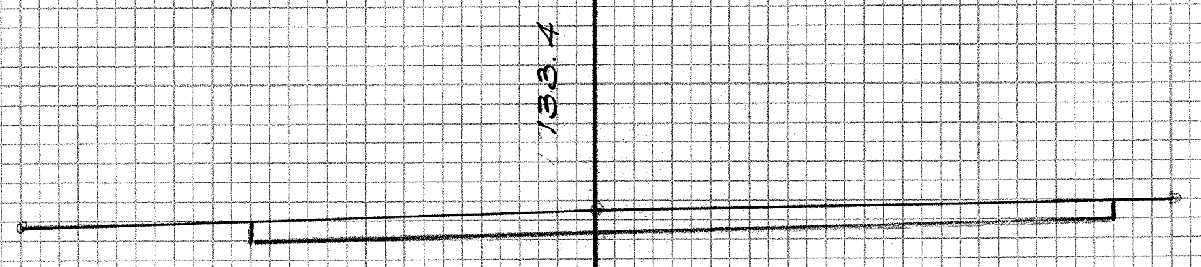
EXC. = ~~219~~ 163
EMB. = 0



C = ~~146~~ 100
F = 0

STA. 0+50

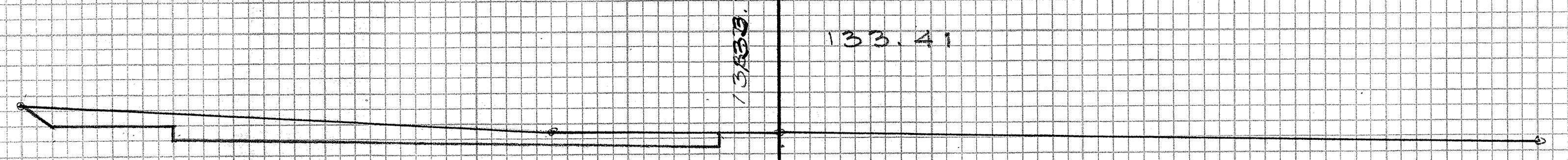
EXC. = ~~95~~ 94
EMB. = 0



C = ~~0~~ 45
F = 0

STA. 0+15

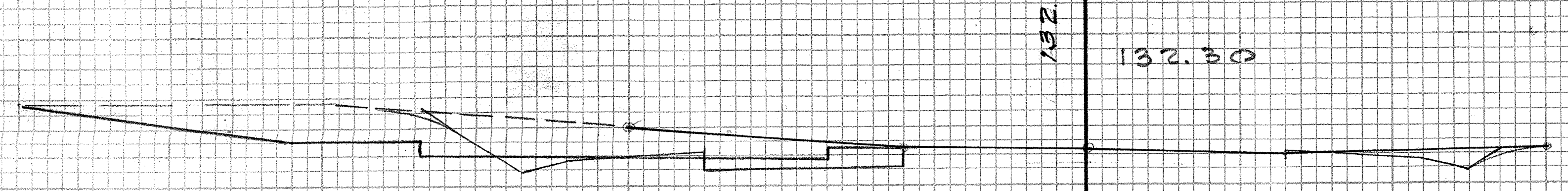
STA. 0+00 LINE B
STA. 1+35 LINE A



C = ~~0~~ 45
F = 0

STA. 1+35

EXC. = ~~53~~ 52
EMB. = 0

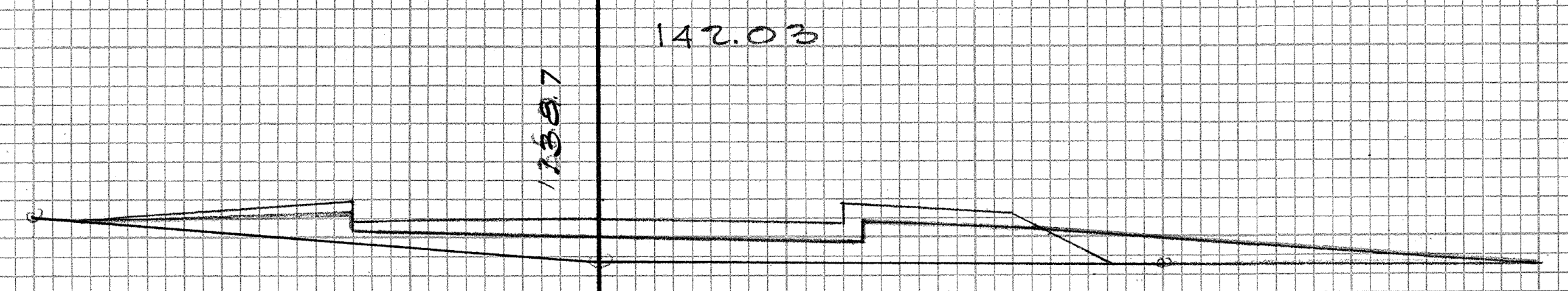


C = ~~77~~ 95
F = 0

STA. 0+98 LINE A

END LINE B
STA. 2+50 C = 0
F = 0

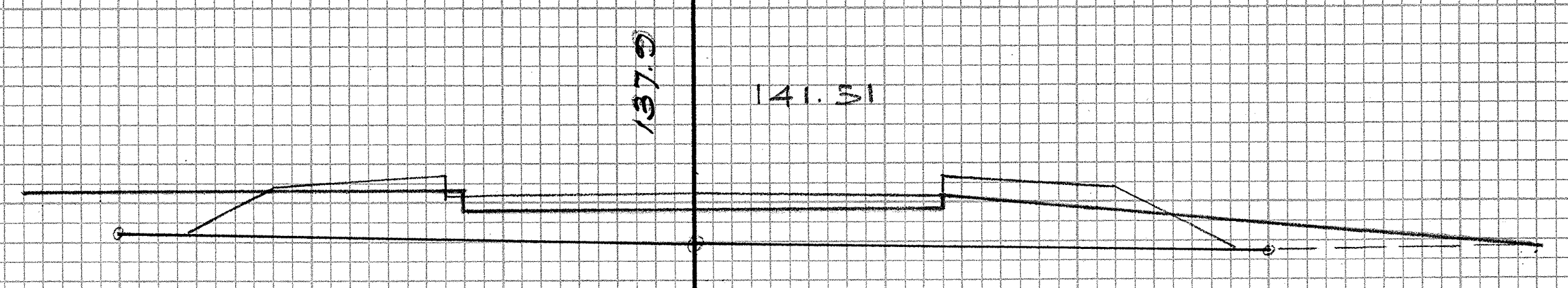
EXC. = ~~0~~ 7
EMB. = ~~54~~ 83



C = 0
F = ~~98~~ 83

STA. 2+20

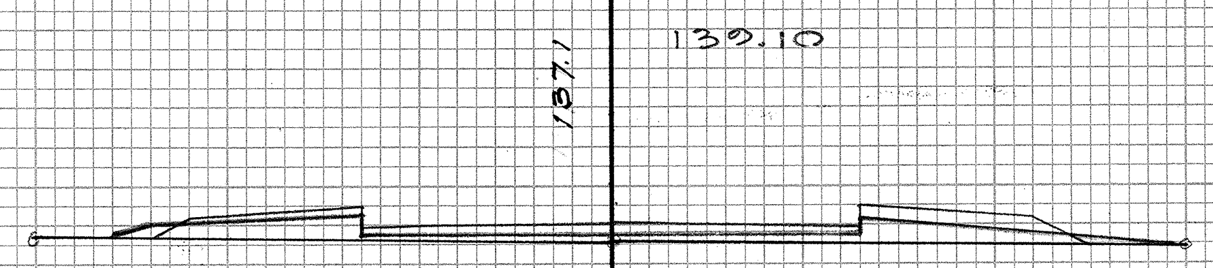
EXC. = 0
EMB. = ~~88~~ 69



C = 0
F = ~~140~~ 102

STA. 2+00

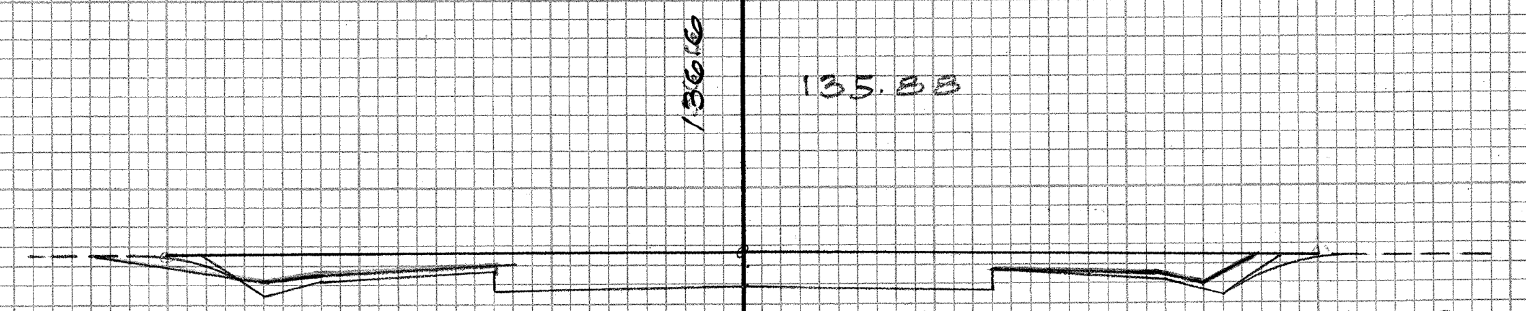
EXC. = 0
EMB. = ~~181~~ 119



C = 0
F = ~~56~~ 27

STA. 1+50

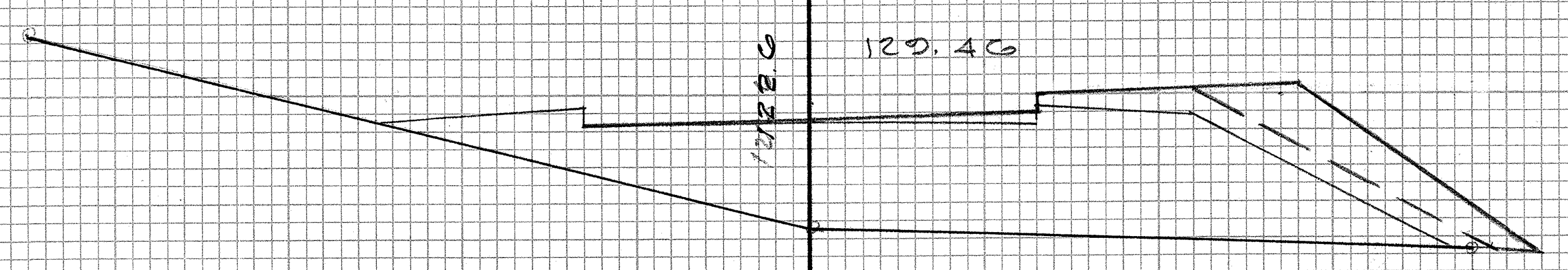
EXC. = ~~83~~ 70
EMB. = ~~0~~ 25



C = ~~90~~ 76
F = 0

STA. 1+00

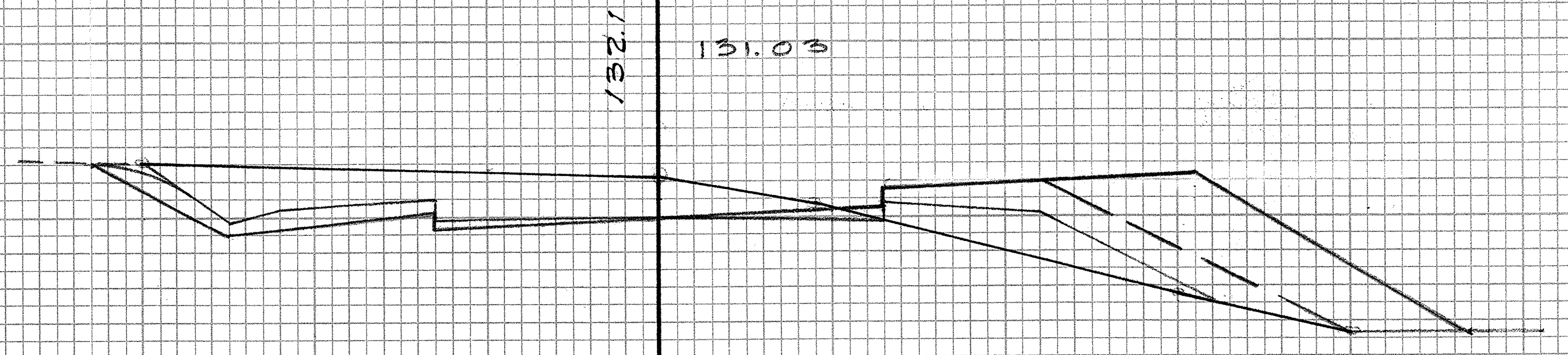
BALDWIN HIGH SCHOOL ACCESS RD.



C = 0
F = ~~271~~ 342

EXC. = ~~55~~ 64
EMB. = ~~124~~ 314

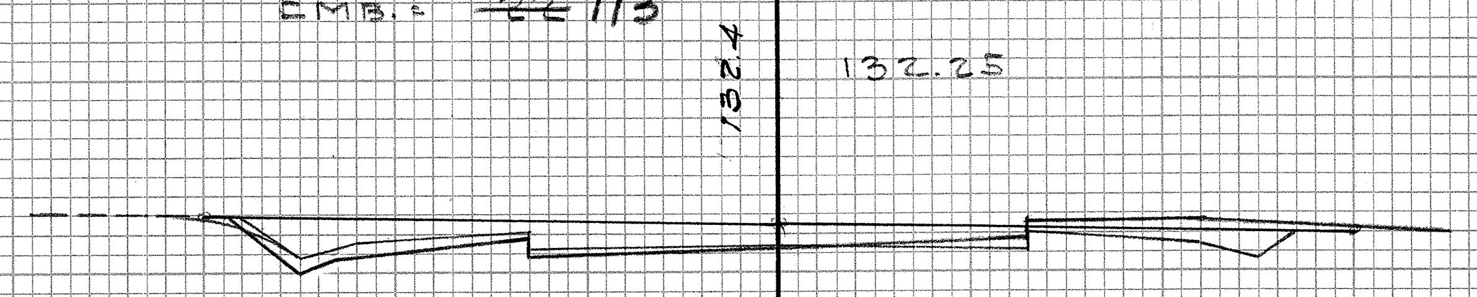
STA. 1+45.76



C = ~~83~~ 100
F = ~~30~~ 145

STA. 1+11

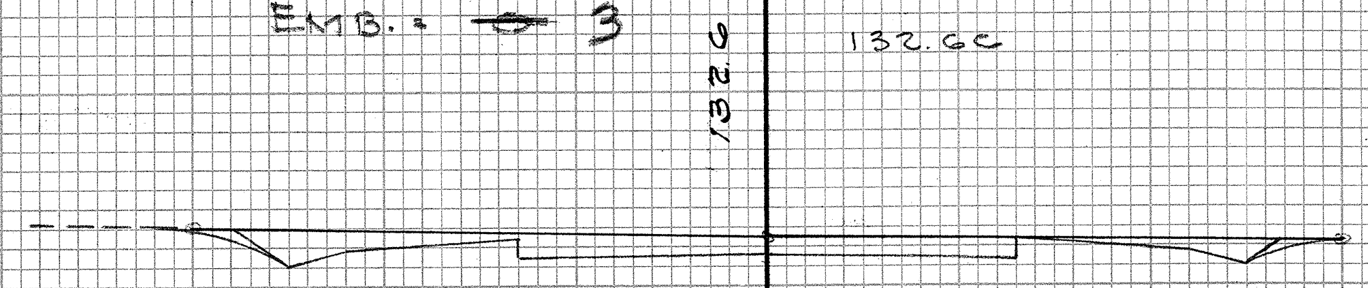
EXC. = ~~105~~ 115
EMB. = ~~22~~ 113



C = ~~58~~ 56
F = ~~0~~ 8

P.C. STA. 0+71.31

EXC. = ~~43~~ 42
EMB. = ~~0~~ 3



C = 50
F = 0

EXC. = ~~46~~ 49
EMB. = 0

STA. 0+50

STA. 0+00 LINE C C = 0
STA. 1+35 LINE A F = 0

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

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS S.J.B. 7-58
AREAS CHECKED
BY
DATE

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
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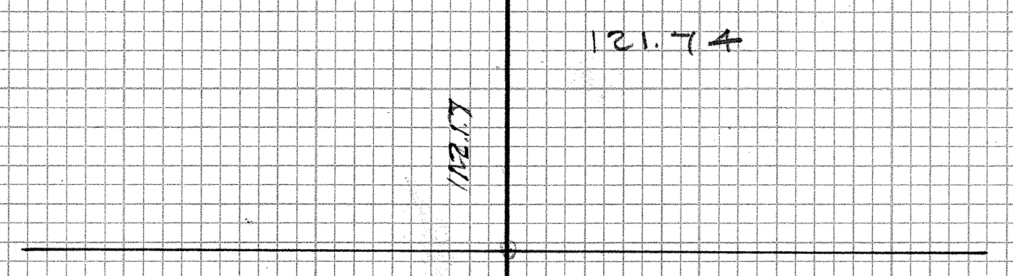
EUGENE DIETZGEN CO.

B S243.37

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	38	41

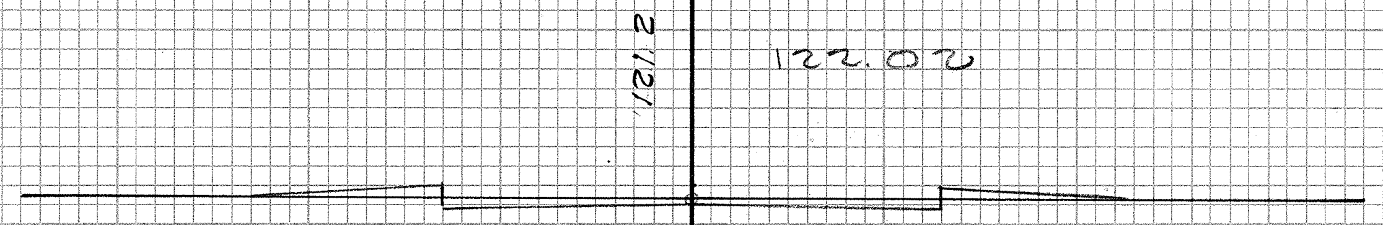
FINAL SURVEY
NOTE BOOK
No.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE



STA 3+50

C = 0
F = 0

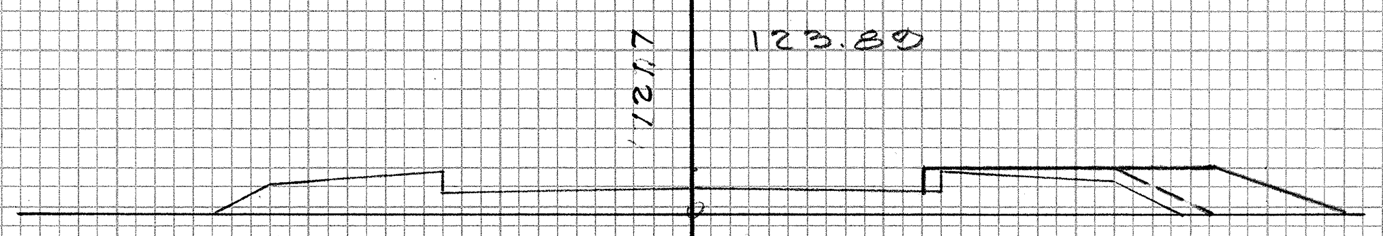
Exc. = ~~9~~ 0
Emb. = ~~6~~ 19



C = ~~10~~ 0
F = ~~7~~ 20

Exc. = ~~9~~ 0
Emb. = ~~76~~ 172

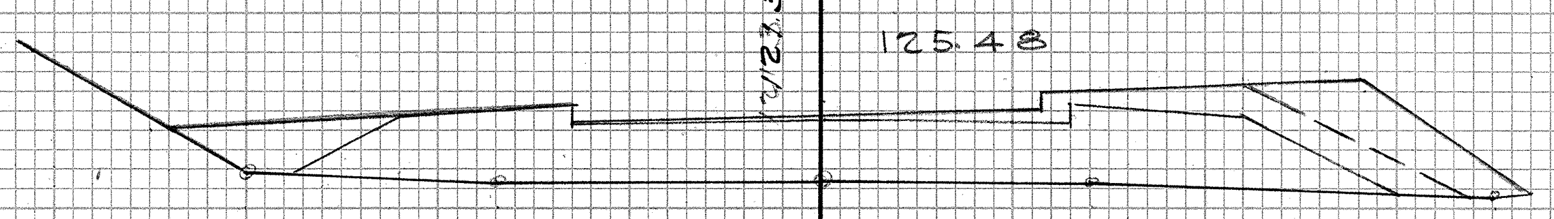
STA 3+00



C = 0
F = ~~75~~ 166

STA 2+50

Exc. = 0
Emb. = ~~137~~ 235



C = 0
F = ~~174~~ 260

Exc. = 0
Emb. = ~~614~~ 830

P.T. STA 2+20.21

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

BALDWIN HIGH SCHOOL ACCESS RD

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
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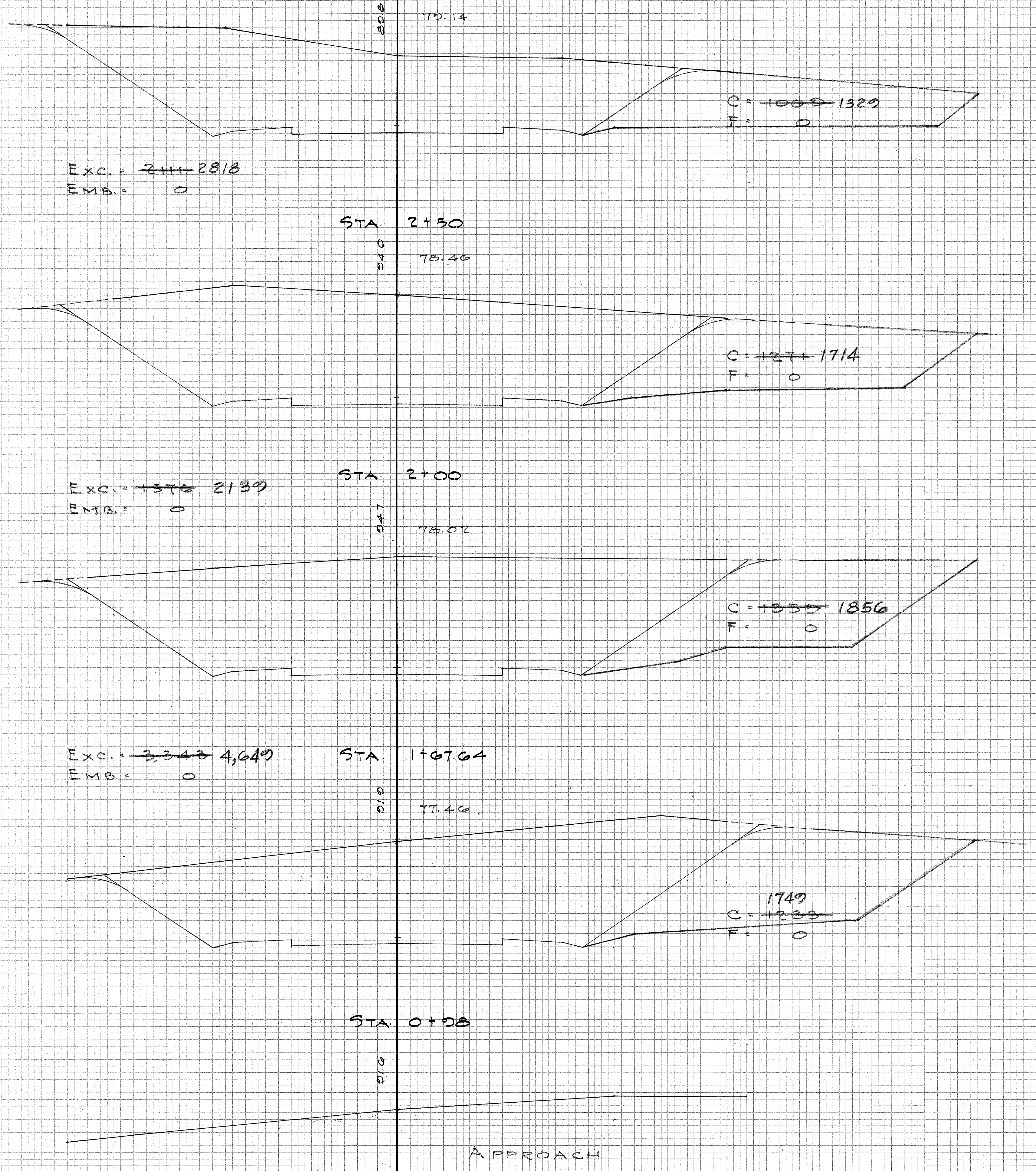
EUGENE DIETZGEN CO.

B S243.3S

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	39	41

ORIGINAL SURVEY
NOTE BOOK
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NO.
BY L.L.
DATE 6-58

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


80.8
79.14
C = ~~1009~~ 1329
F = 0
Exc. = ~~2111~~ 2818
Emb. = 0
Sta. 2+50
84.0
78.46
C = ~~1271~~ 1714
F = 0
Exc. = ~~1576~~ 2139
Emb. = 0
Sta. 2+00
84.7
78.02
C = ~~1359~~ 1856
F = 0
Exc. = ~~3,343~~ 4,649
Emb. = 0
Sta. 1+67.64
81.0
77.46
C = ~~1233~~ 1749
F = 0
Sta. 0+98
81.0
Approach

Sta. 0+48

Hospital Access Road

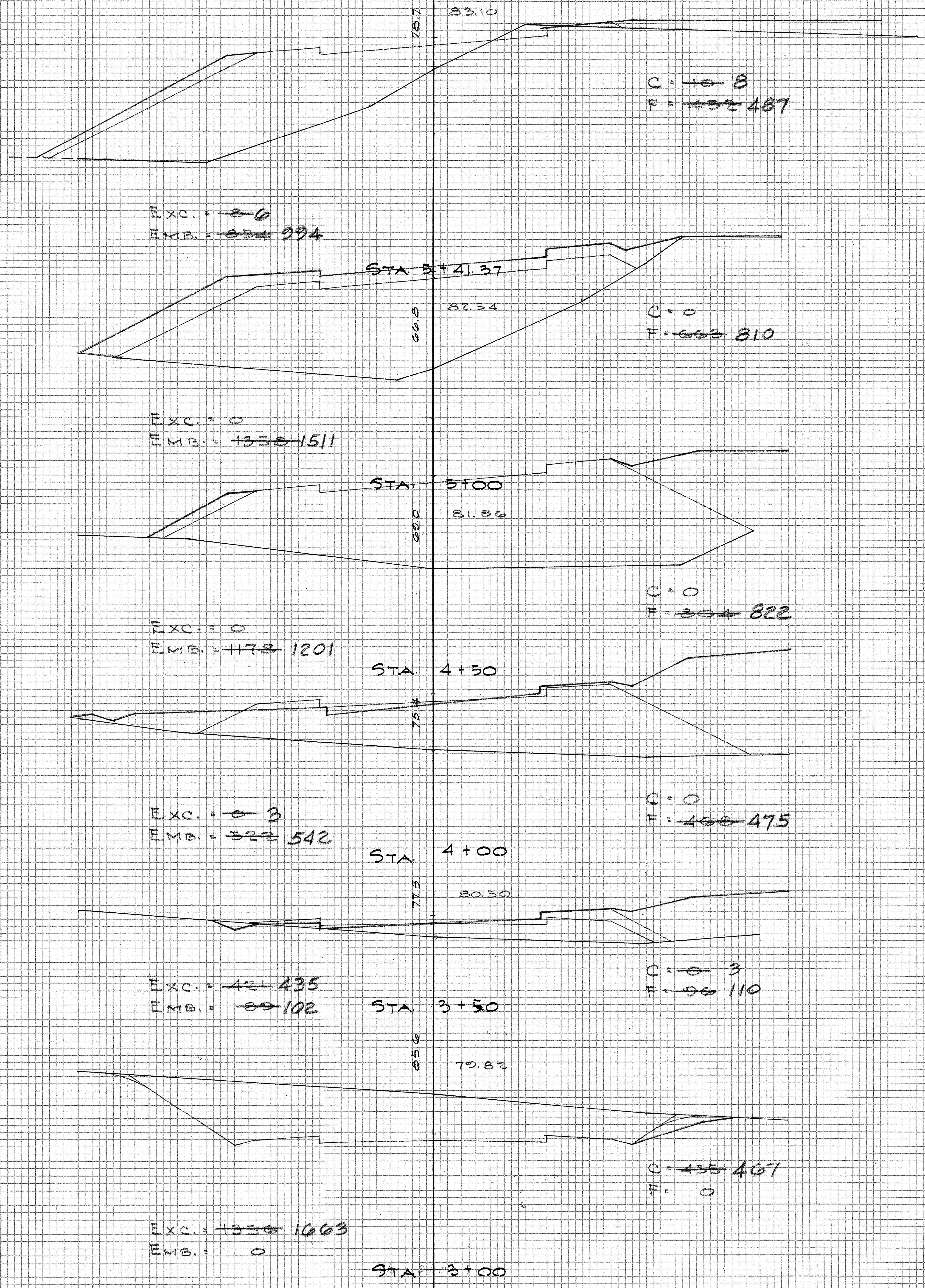

78.7
83.10
C = ~~10~~ 8
F = ~~432~~ 487
Exc. = ~~3~~ 6
Emb. = ~~854~~ 994
Sta. 5+41.37
80.8
82.54
C = 0
F = ~~663~~ 810
Exc. = 0
Emb. = ~~1358~~ 1511
Sta. 5+00
80.0
81.86
C = 0
F = ~~804~~ 822
Exc. = 0
Emb. = ~~1178~~ 1201
Sta. 4+50
75.4
C = 0
F = ~~468~~ 475
Exc. = ~~0~~ 3
Emb. = ~~322~~ 542
Sta. 4+00
77.5
80.50
C = ~~0~~ 3
F = ~~96~~ 110
Exc. = ~~421~~ 435
Emb. = ~~89~~ 102
Sta. 3+50
85.0
79.82
C = ~~435~~ 467
F = 0
Exc. = ~~1330~~ 1663
Emb. = 0
Sta. 3+00

PLATE 3 CROSS SECTION O. P. R. & R.-E. STANDARD
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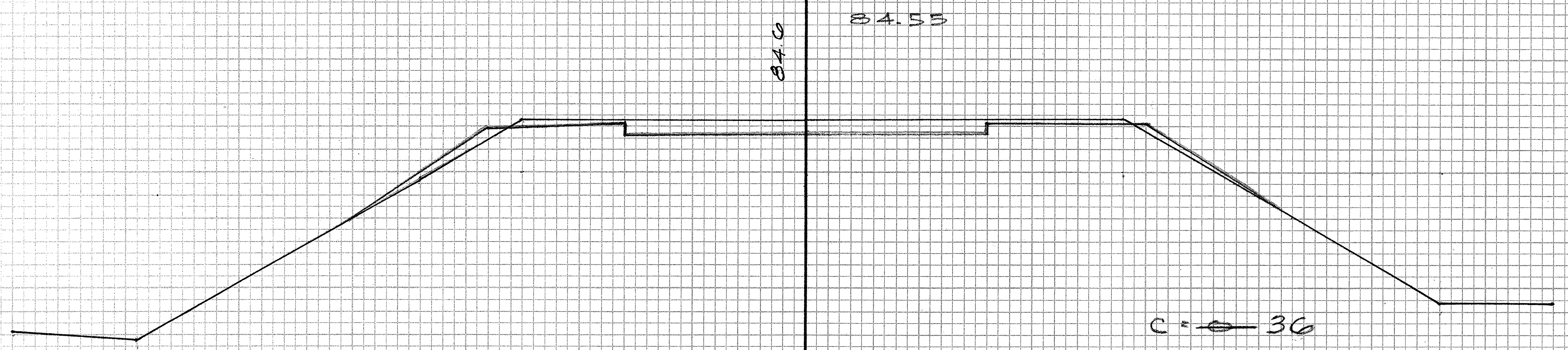
B S243.39

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-032-1(4)	1958	40	41

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

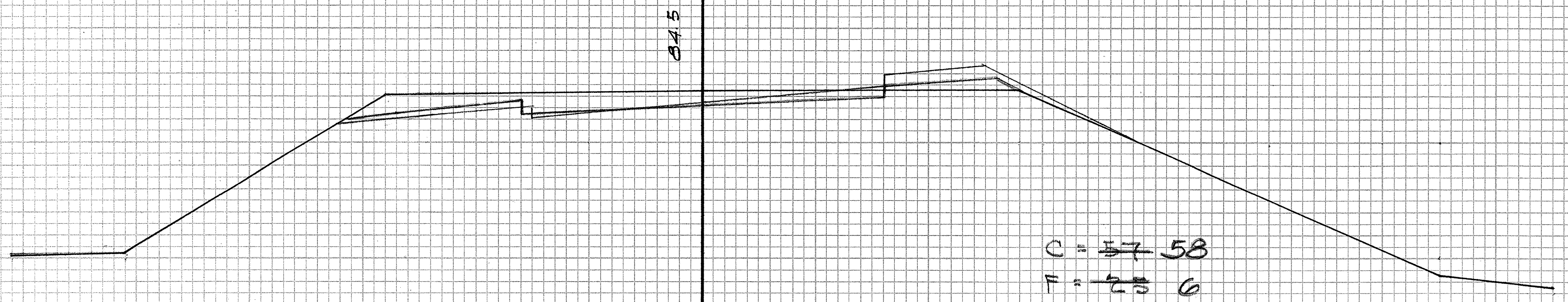
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED	L. Lee	2-58
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



C = ~~0~~ 36
F = ~~0~~ 11

Exc. = ~~66~~ 110
Emb. = ~~29~~ 20

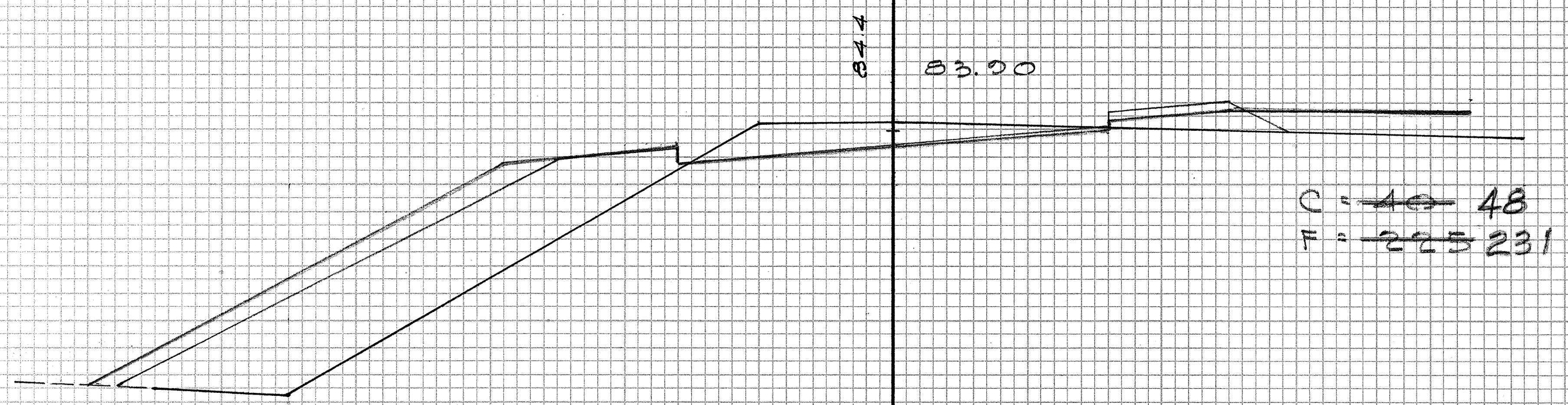
P.T. STA. 71 + 12.97



C = ~~57~~ 58
F = ~~25~~ 6

Exc. = ~~90~~ 98
Emb. = ~~231~~ 219

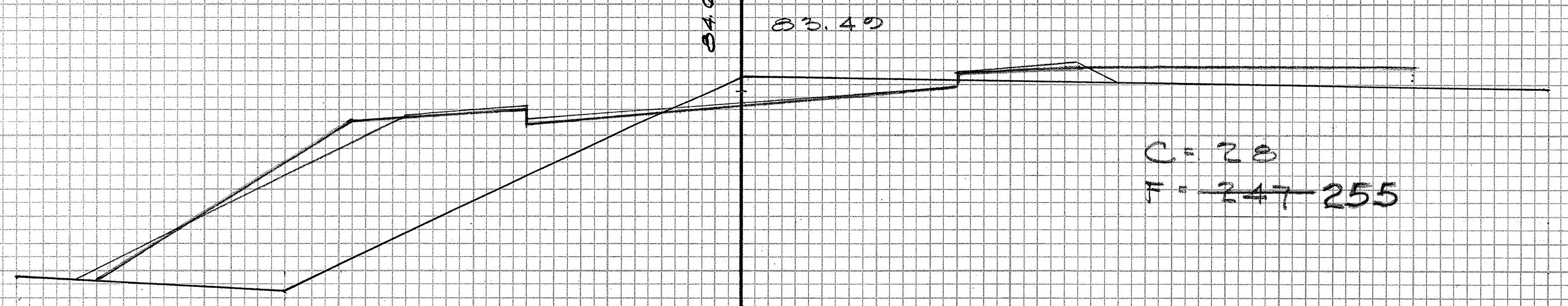
STA. 6+50



C = ~~40~~ 48
F = ~~225~~ 231

Exc. = ~~38~~ 42
Emb. = ~~262~~ 270

STA. 6+00



C = 28
F = ~~247~~ 255

HOSPITAL ACCESS ROAD

Exc. = ~~20~~ 19
Emb. = ~~371~~ 393

STA. 5+70

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
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EUGENE DIETZGEN CO.

B S243.40

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	DF-0321(4)	1958	41	41

MAUI NEWS ACCESS ROAD

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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED	E.J.B.	6-58
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

37.7
55.26
C = 0
F = ~~1185~~ 1235
EXC. = 0
EMB. = ~~1706~~ 1787
STA. 2+50
53.78
41.8
C = 0
F = ~~657~~ 695
EXC. = 0
EMB. = ~~662~~ 711
STA. 2+00
49.3
53.21
C = 0
F = ~~158~~ 180
EXC. = ~~85~~ 84
EMB. = ~~201~~ 225
STA. 1+56.12
54.0
53.52
C = ~~79~~ 78
F = 29
STA. 0+98
53.0
APPROACH
STA. 0+48
EXC. = 0
EMB. = ~~179~~ 188
62.9
64.47
C = 0
F = ~~113~~ 118
STA. 4+21.18
EXC. = 0
EMB. = ~~129~~ 140
59.7
63.28
C = 0
F = ~~216~~ 239
STA. 4+00
EXC. = 0
EMB. = ~~969~~ 982
51.2
60.46
C = 0
F = ~~831~~ 822
EXC. = 0
EMB. = ~~1695~~ 1724
STA. 3+50
44.8
57.63
C = 0
F = ~~1000~~ 1040
EXC. = 0
EMB. = ~~2023~~ 2107
STA. 3+00
73.3
73.34
C = ~~0~~ 10
F = ~~0~~ 35
EP
EP
STA. 5+78.25
EXC. = ~~8~~ 15
EMB. = ~~43~~ 69
71.4
71.40
C = 13
F = ~~68~~ 74
EP
EP
STA. 5+43.96
EXC. = 11
EMB. = ~~214~~ 227
64.5
68.92
C = 0
F = ~~195~~ 205
EXC. = 0
EMB. = ~~386~~ 407
STA. 5+00
60.1
66.10
C = 0
F = ~~222~~ 235
STA. 4+50

B S243.41