FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	77	113

℄

111.5

111.46

Grade to Drain

C = 52

F = ~~765~~ 190

2+50

Exc =

Emb =

111.4

111.35

C = 52

F = 148

2+00

Exc =

Emb =

111.3

111.24

C = 59

F = 1

1+50

Exc =

Emb =

111.3

111.12

Waste

C = 50

F = ~~702~~ 110

1+00

Exc =

Emb =

111.0

111.01

Waste

C = 58

F = ~~77~~ 78

0+50

Exc =

Emb =

111.0

110.90

Waste

C = 61

F = ~~55~~ 63

0+00

C = 0

F = 0

0-50

℄

111.3

112.02

C = 48

F = 9

5+00

Exc =

Emb =

111.6

111.91

C = 44

F = 22

4+50

Exc =

Emb =

111.7

111.80

C = 49

F = 56

4+00

Exc =

Emb =

111.7

111.69

C = 51

F = ~~113~~ 124

3+50

Exc =

Emb =

111.6

111.58

C = 54

F = ~~164~~ 200

3+00

Exc =

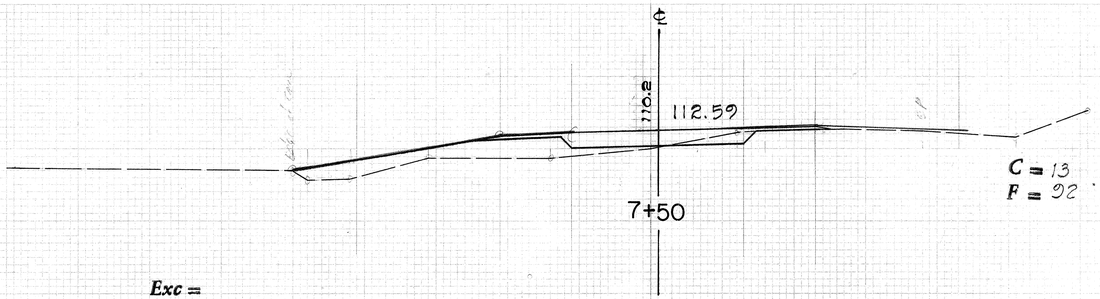
Emb =

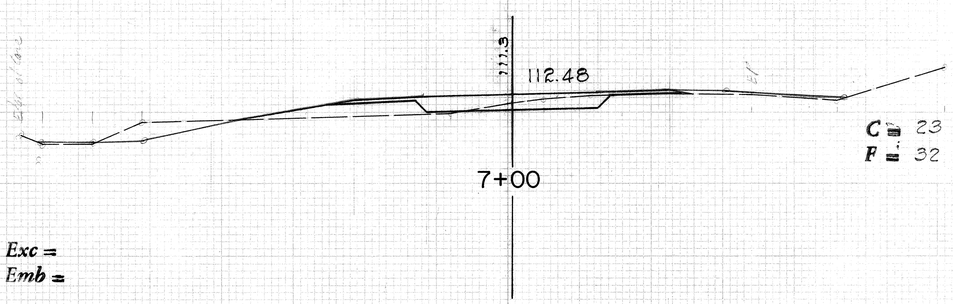
℄

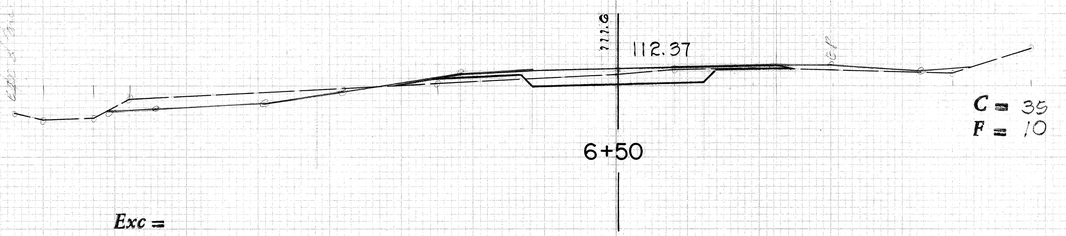
77

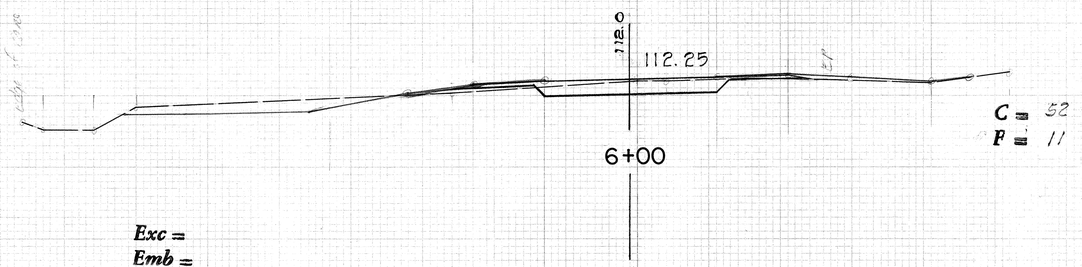
77 1/6

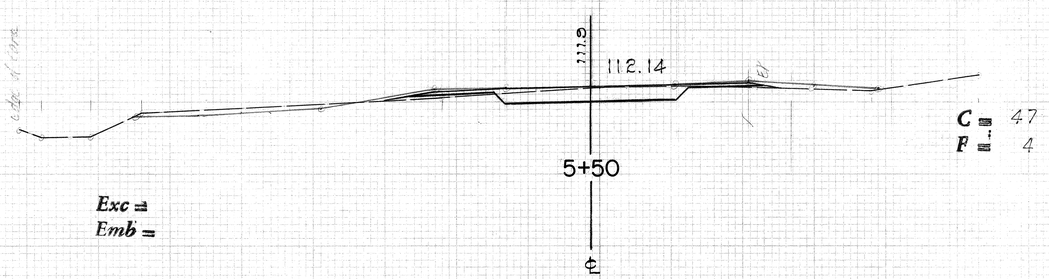
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	78	113

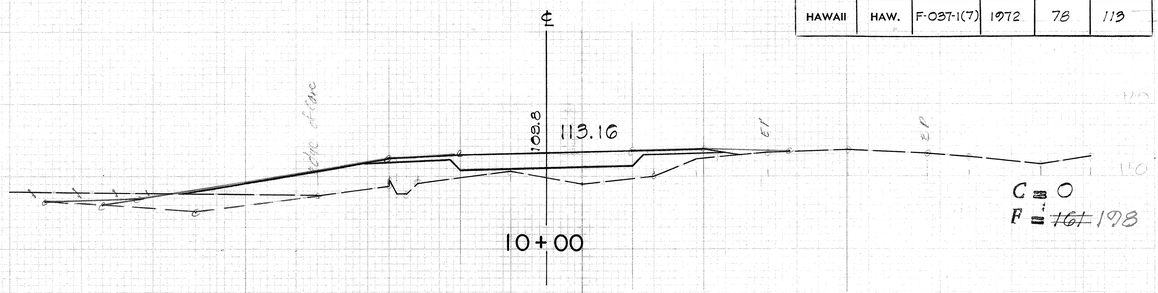


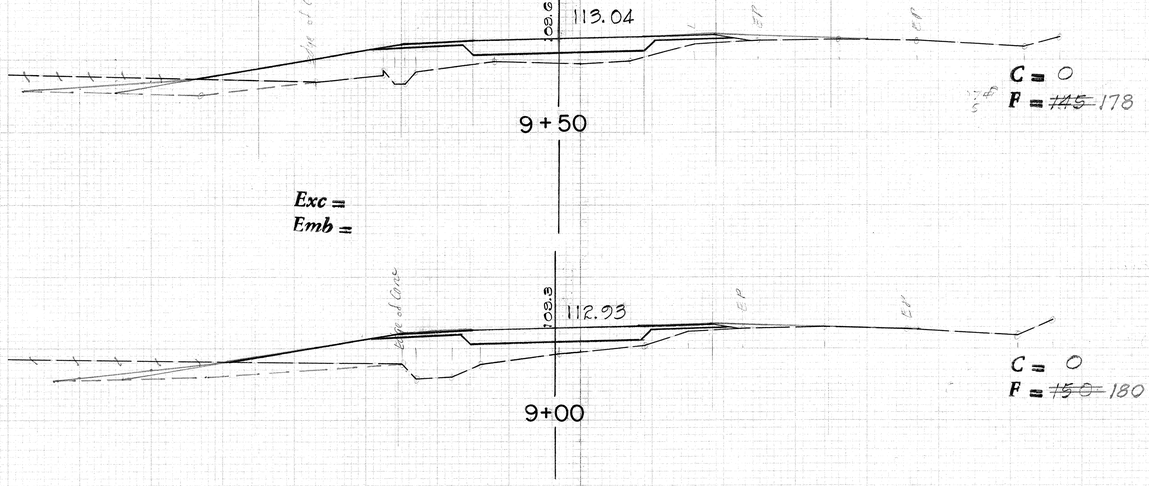


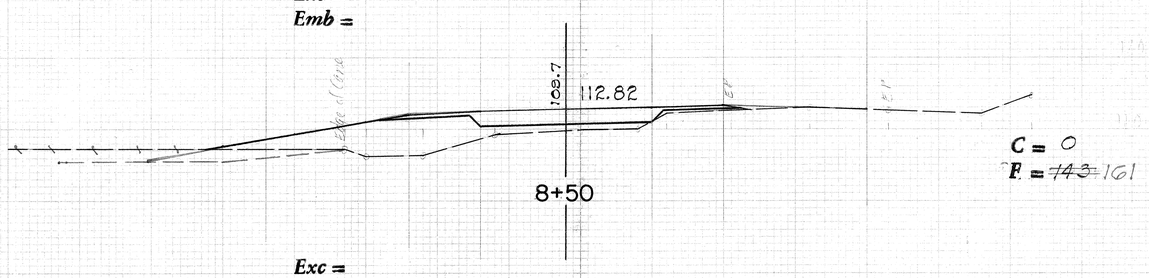


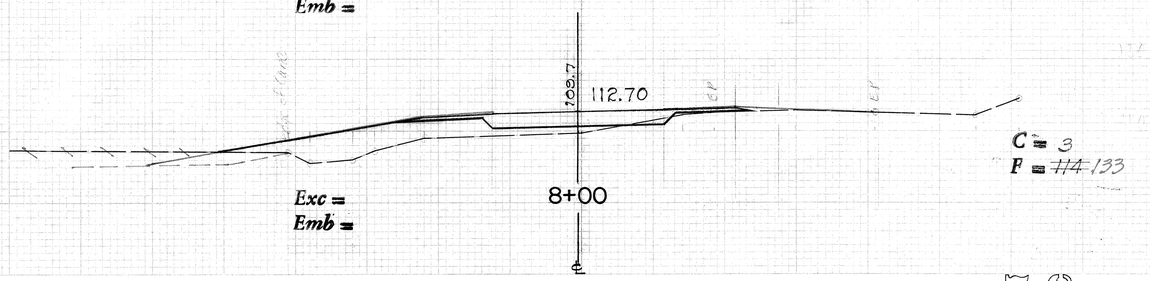




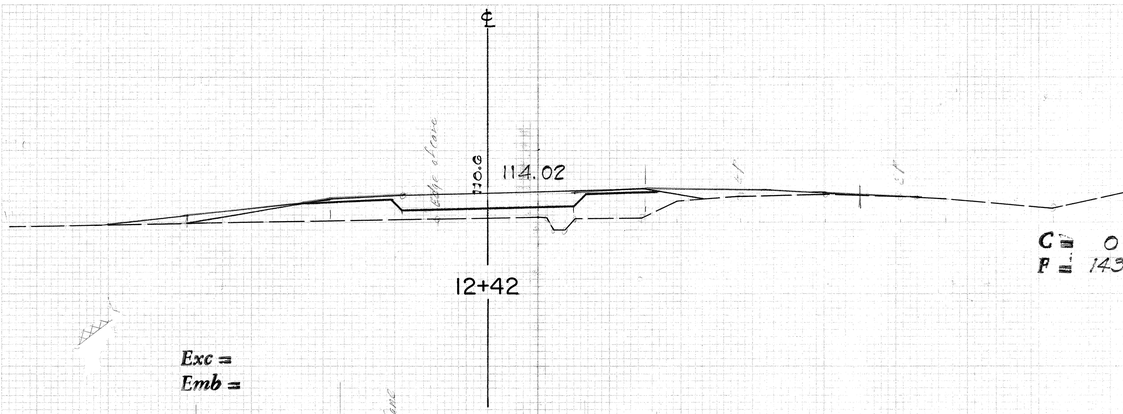


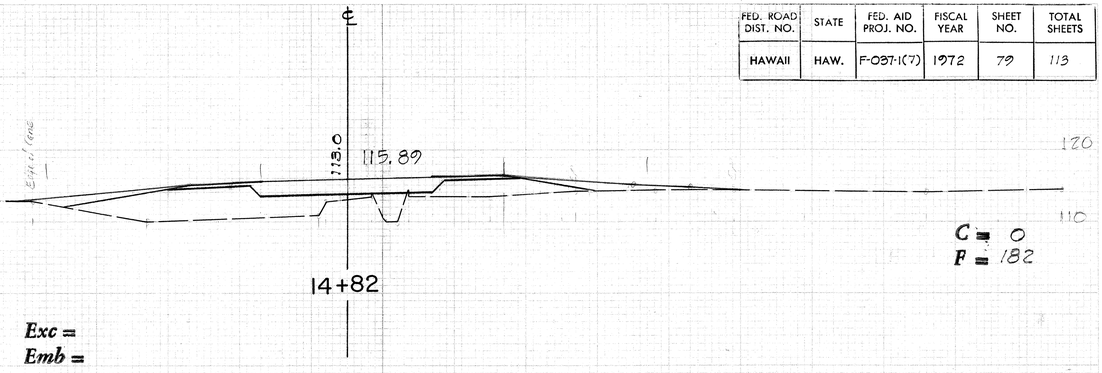


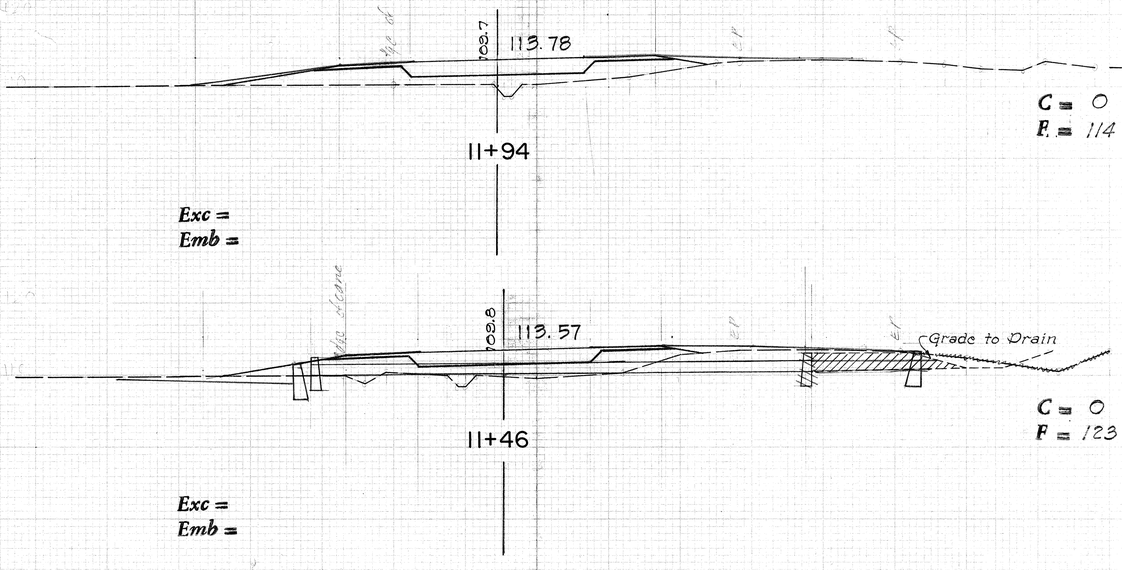


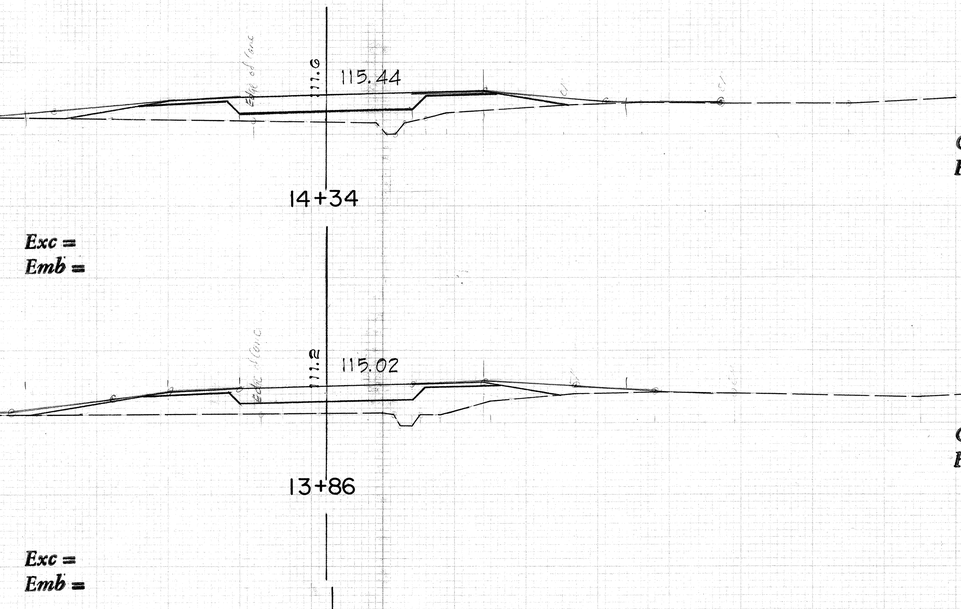


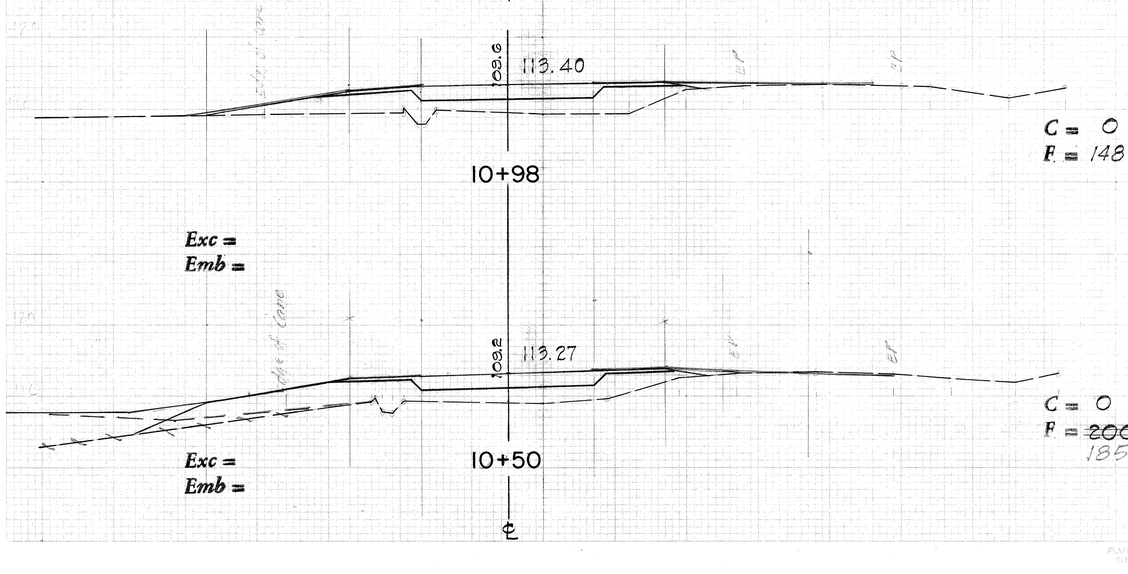
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-087-1(7)	1972	79	113











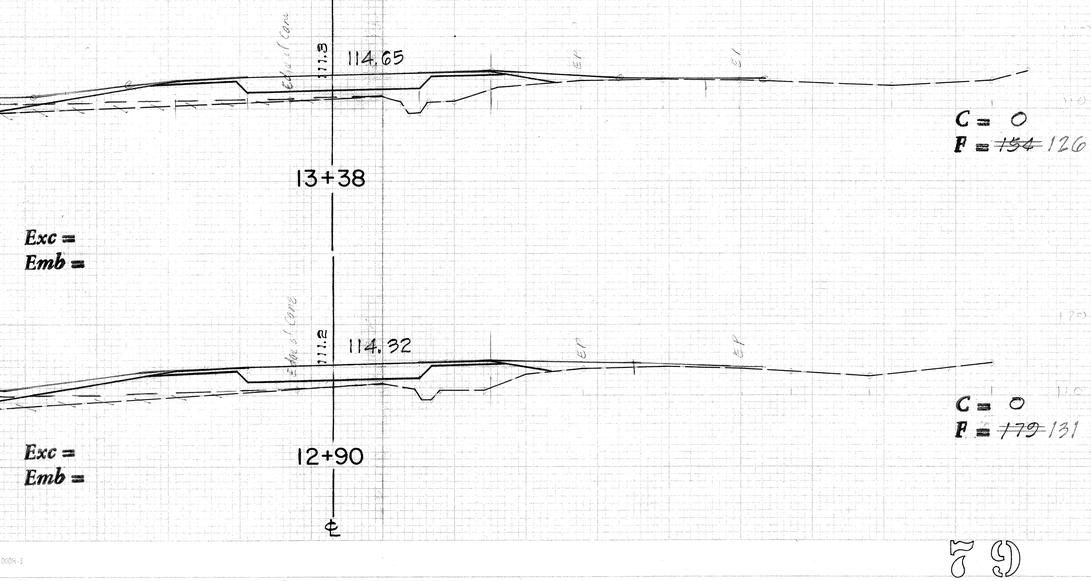
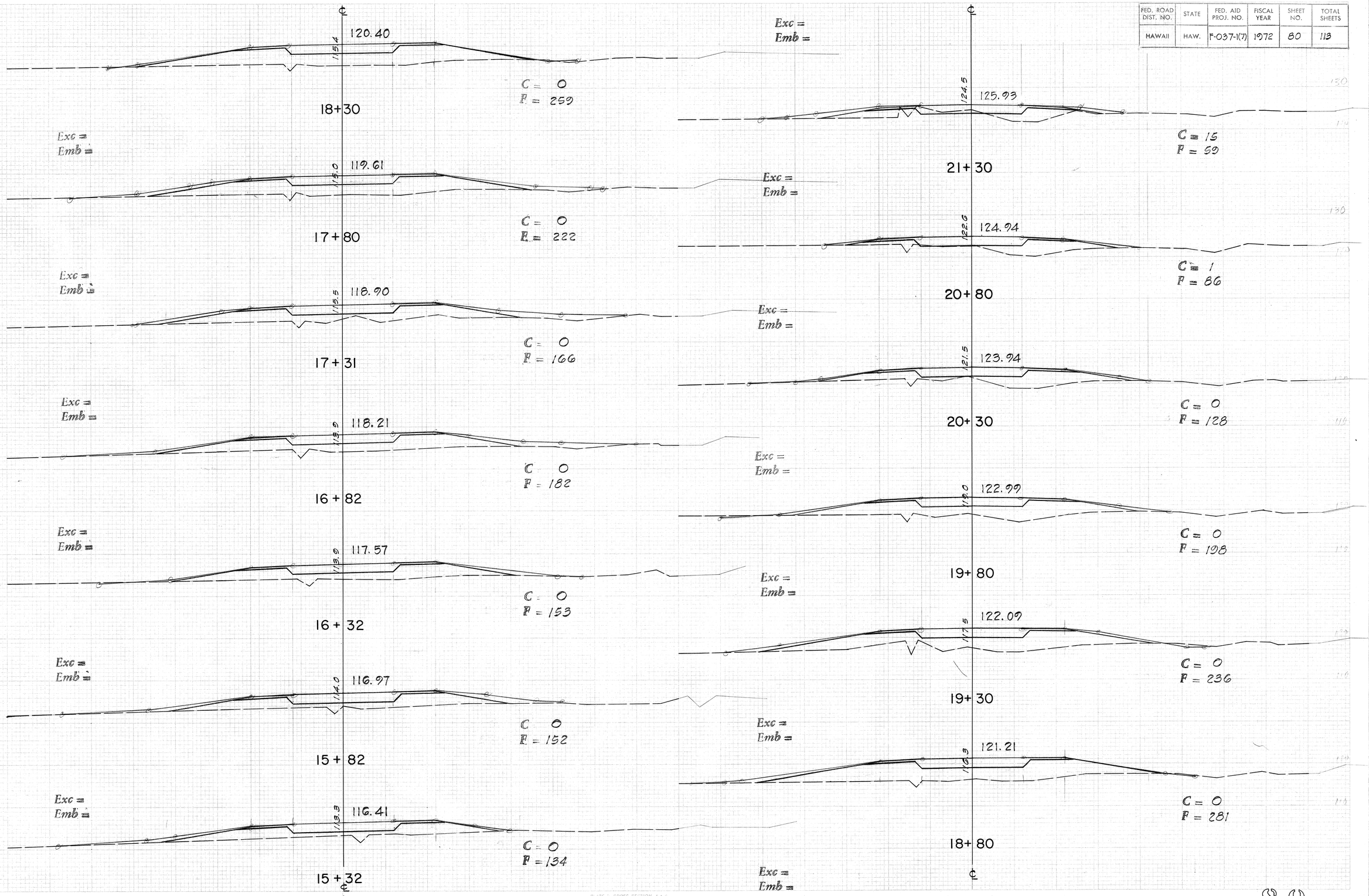


PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S F CAL. NO. 1000N-3

79

79 3/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	80	113



FINAL SURVEY — ORIGINAL SURVEY — SURVEYED BY — COMPUTED BY — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOKS — NO. — DATE — BY

PLATE 5 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1010H-3

80

4/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	81	113

FINAL SURVEY — SURVEYED, TRACED, TEMPLATE, MAPS, CHECKED, NOTE BOOKS, NO.

GENERAL SURVEY — SURVEYED, TRACED, TEMPLATE, MAPS, CHECKED, NOTE BOOKS, NO.

DATE / BY

℄

Exc =
Emb =
138.8 132.93
C = 126
F = 2
24+82

Exc =
Emb =
132.4 131.94
C = 99
F = 1
24+32

Exc =
Emb =
130.8 130.94
C = 47
F = 6
23+82

Exc =
Emb =
129.4 129.95
C = 29
F = 11
23+32

Exc =
Emb =
128.0 128.95
C = 25
F = 31
22+82

Exc =
Emb =
127.0 127.94
C = 27
F = 20
22+31

Exc =
Emb =
125.7 126.93
C = 19
F = 34
21+80

℄

Exc =
Emb =
141.5 138.90
C = ~~315~~ 308
F = 0
27+82

Exc =
Emb =
140.2 137.90
C = ~~288~~ 283
F = 0
27+32

Exc =
Emb =
139.4 136.91
C = ~~317~~ 309
F = 0
26+82

Exc =
Emb =
138.0 135.91
C = ~~265~~ 256
F = 0
26+32

Exc =
Emb =
137.4 134.92
C = ~~253~~ 248
F = 0
25+82

Exc =
Emb =
135.7 133.93
C = ~~144~~ 141
F = 1
25+32

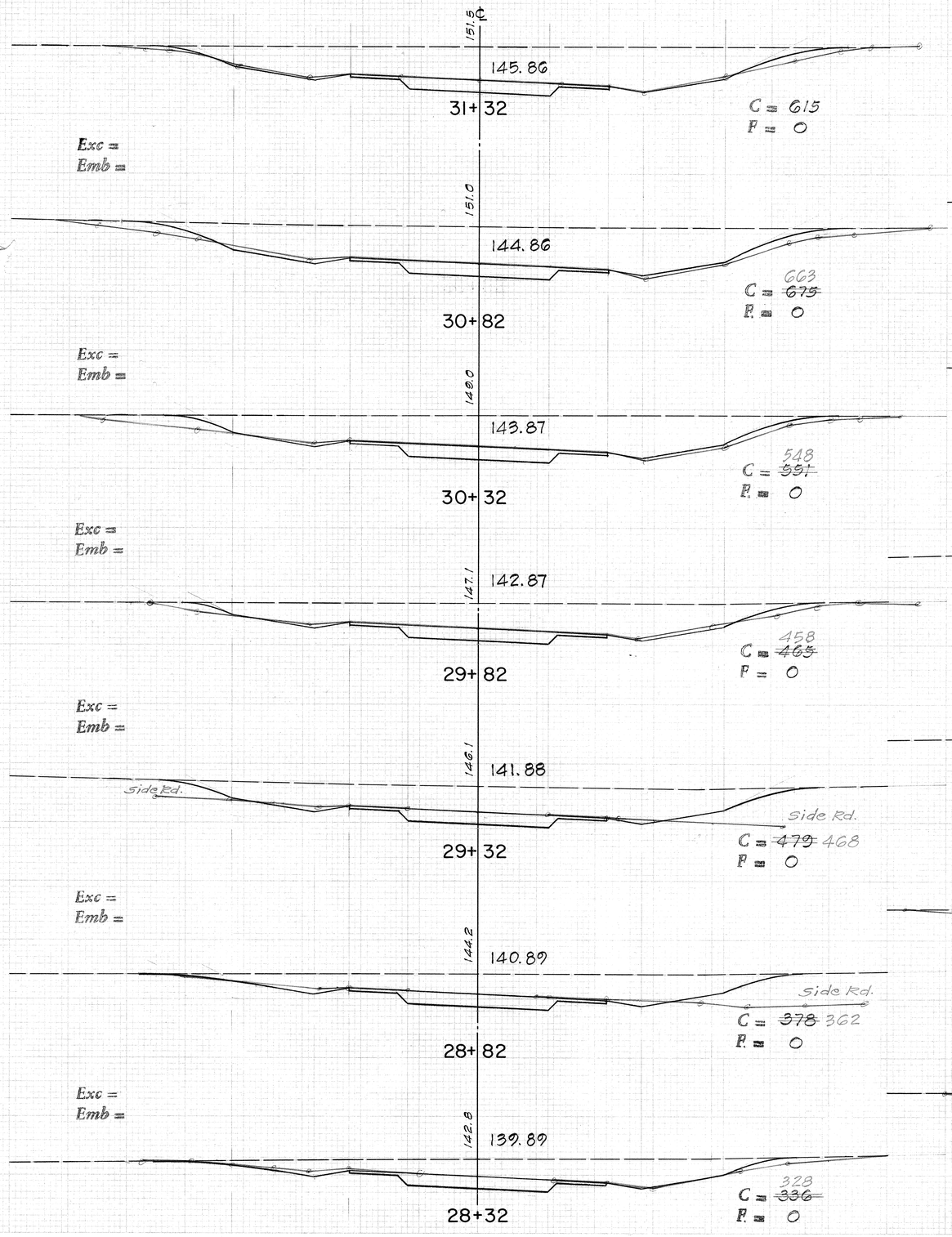
PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-3

S 1

8'

5/19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	82	113



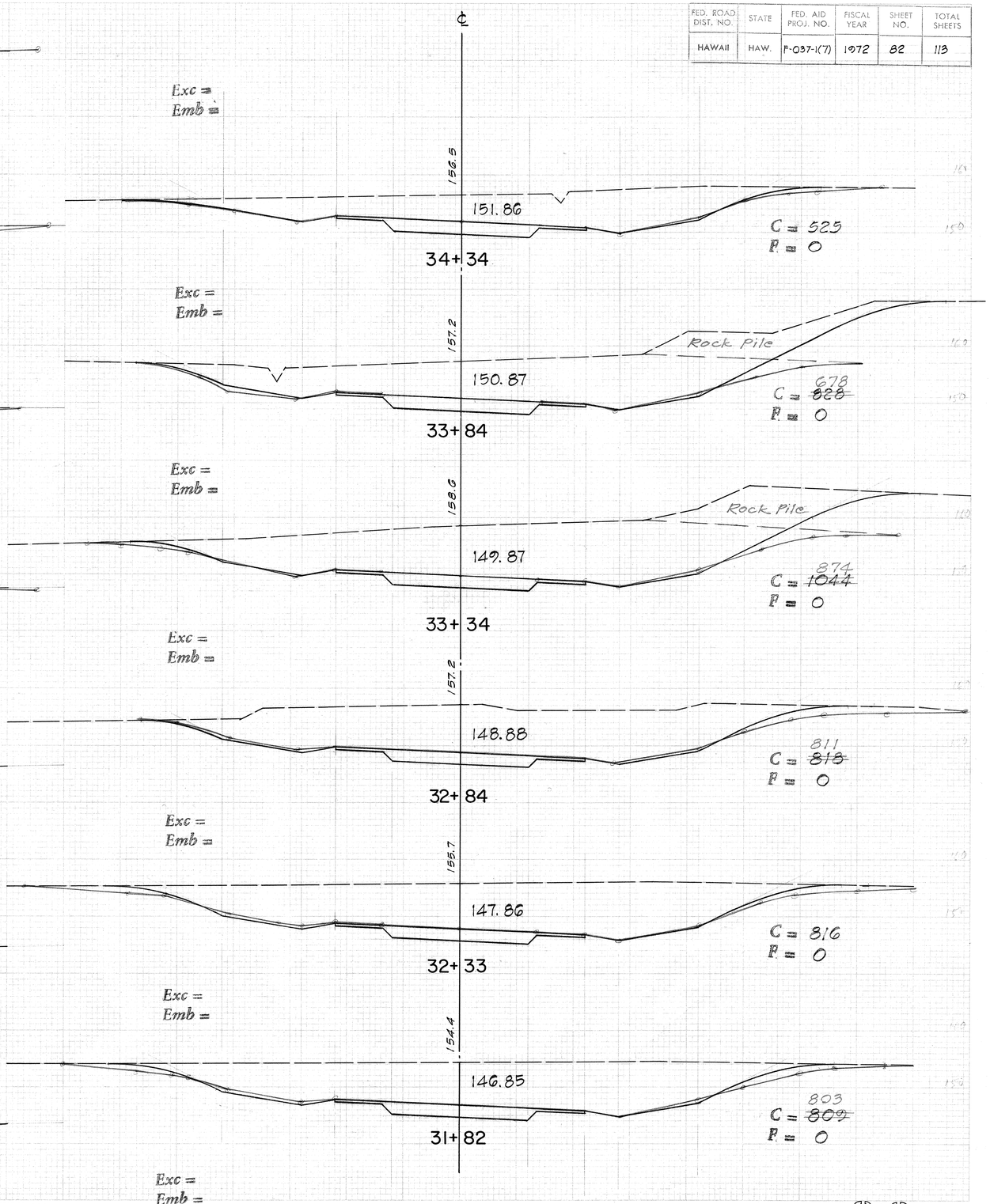


PLATE 3 - CROSS SECTION, E & S
CLEARPRINT PAPER CO., S. F. CAL.
NO. 1000H-3

82

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	83	113

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, PAGES, DATE, BY

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

℄

Exc =
Emb =

158.6 158.80

C = 112
F = 15

37+83

Exc =
Emb =

158.4 157.81

C = ~~163~~ 153
F = 1

37+33

Exc =
Emb =

158.0 156.81

C = ~~187~~ 182
F = 0

36+83

Exc =
Emb =

158.8 155.84

C = ~~326~~ 314
F = 0

36+34

Exc =
Emb =

157.2 154.84

C = ~~305~~ 288
F = 0

35+84

Exc =
Emb =

157.5 153.84

C = ~~399~~ 397
F = 0

35+34

Exc =
Emb =

156.8 152.86

C = ~~512~~ 507
F = 2

34+84

℄

Exc =
Emb =

165.0 164.77

C = 116
F = 4

40+83

Exc =
Emb =

163.1 163.77

C = 69
F = 20

40+33

Exc =
Emb =

162.4 162.78

C = 76
F = 21

39+83

Exc =
Emb =

161.5 161.78

C = 90
F = 11

39+33

Exc =
Emb =

161.0 160.79

C = 129
F = 6

38+83

Exc =
Emb =

160.0 159.80

C = 121
F = 2

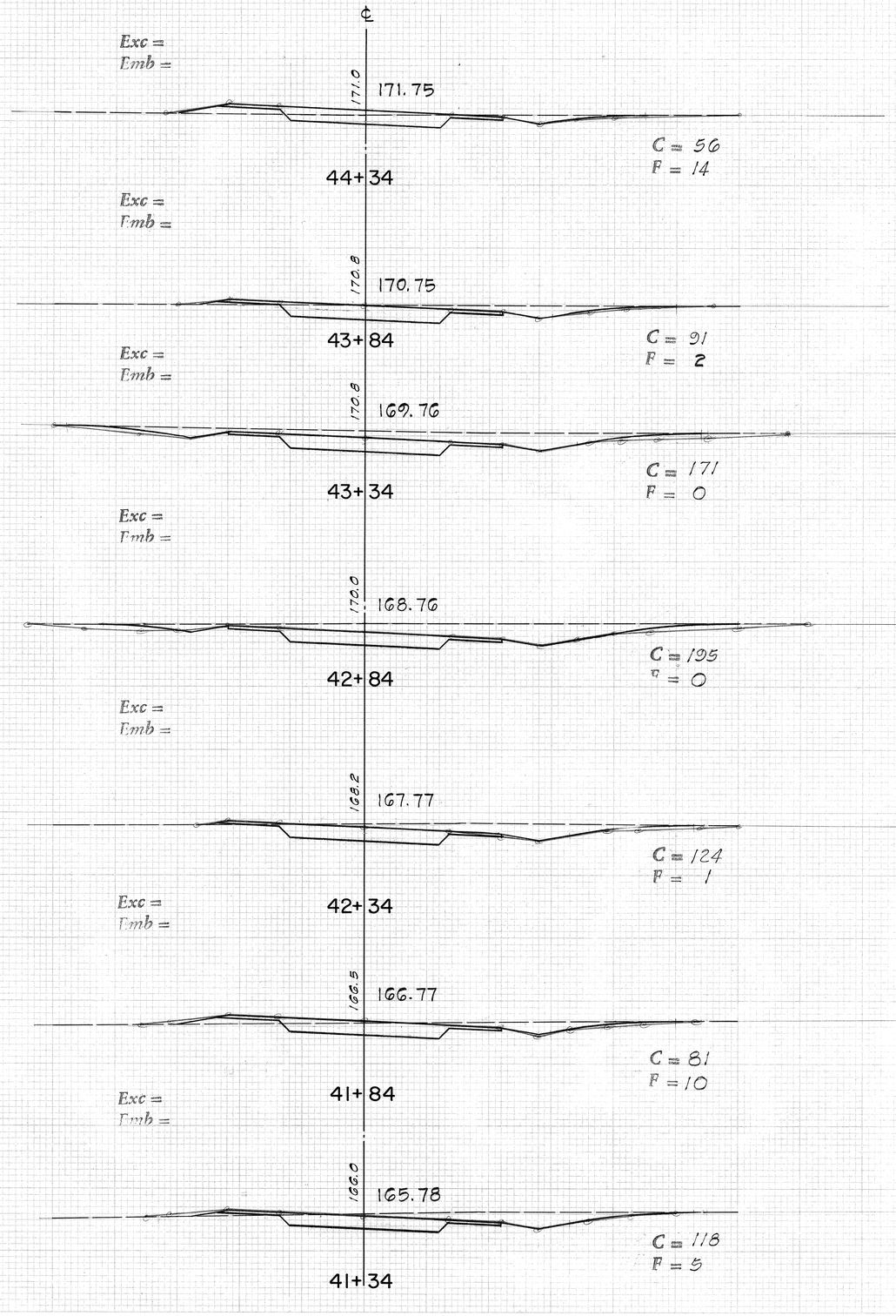
38+33

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000N-3

S 83

83

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	84	113



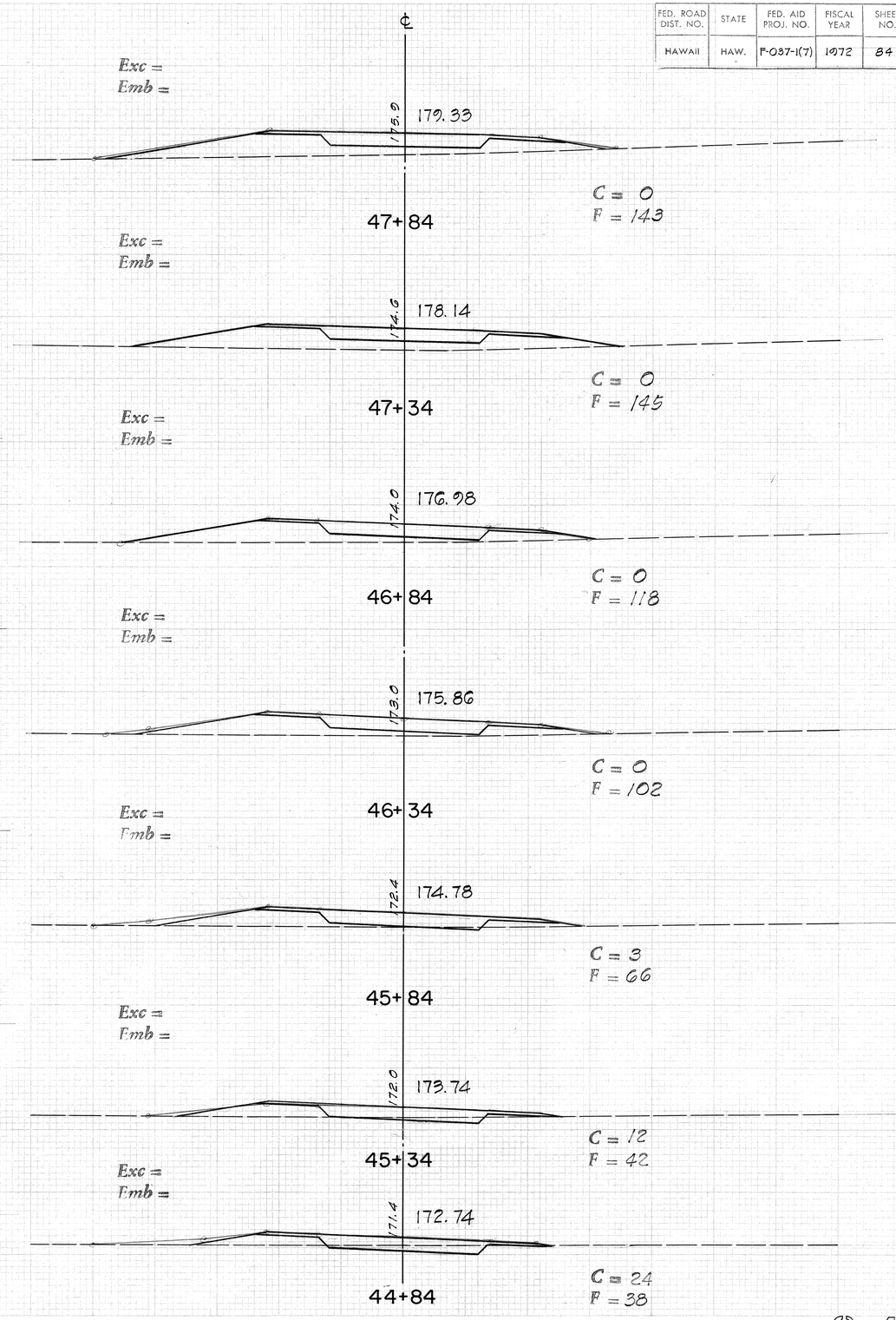


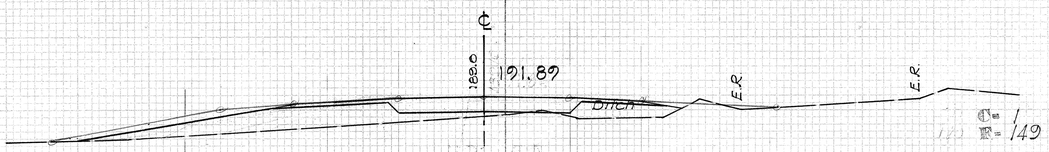
PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F., CAL.
NO. 1000H-3

S 4

84

FED., ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	85	113

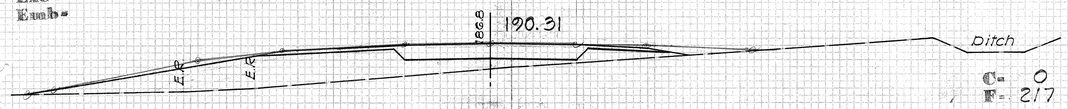
52+35



C= 1
F= 149

Exc=
Emb=

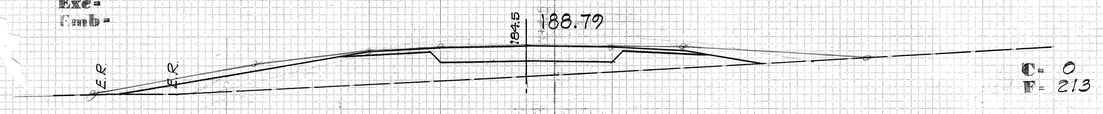
51+84



C= 0
F= 217

Exc=
Emb=

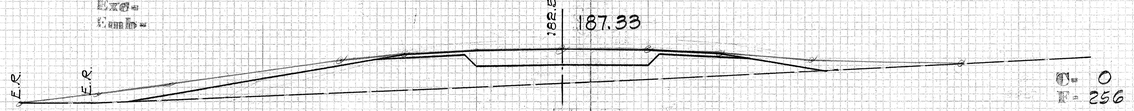
51+34



C= 0
F= 213

Exc=
Emb=

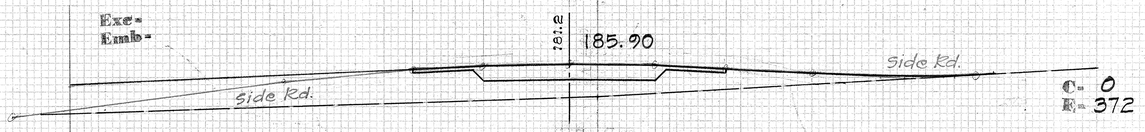
50+84



C= 0
F= 256

Exc=
Emb=

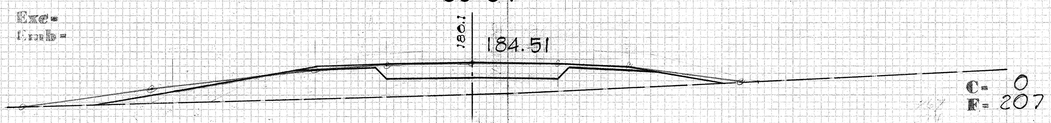
50+34



C= 0
F= 372

Exc=
Emb=

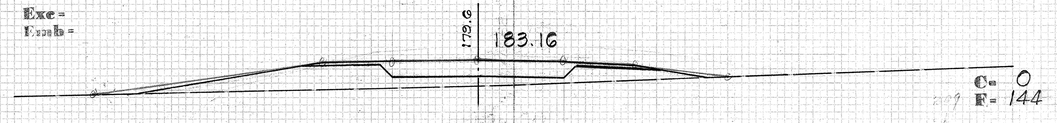
49+84



C= 0
F= 207

Exc=
Emb=

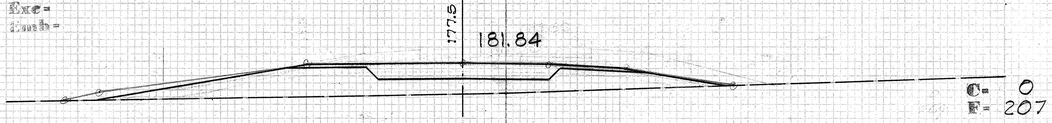
49+34



C= 0
F= 144

Exc=
Emb=

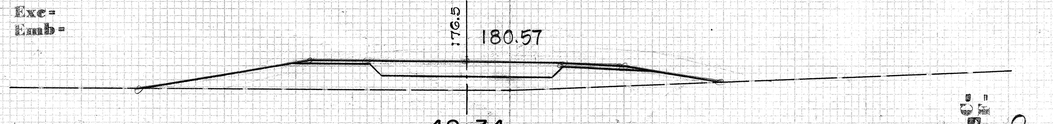
48+84



C= 0
F= 207

Exc=
Emb=

48+34



C= 0
F= 176

Exc=
Emb=

℄

56+50



C= 304
F= 0

Exc=
Emb=

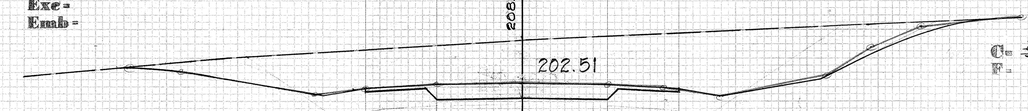
56+00



C= 350 ~~353~~
F= 0

Exc=
Emb=

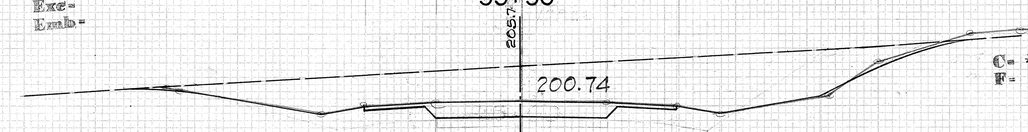
55+50



C= ~~528~~ 518
F= 0

Exc=
Emb=

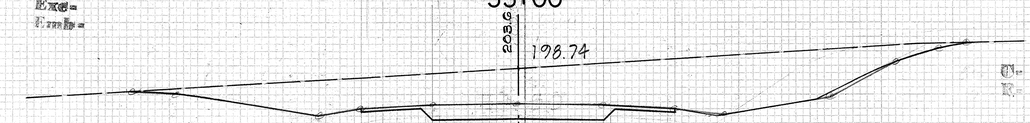
55+00



C= ~~438~~ 417
F= 0

Exc=
Emb=

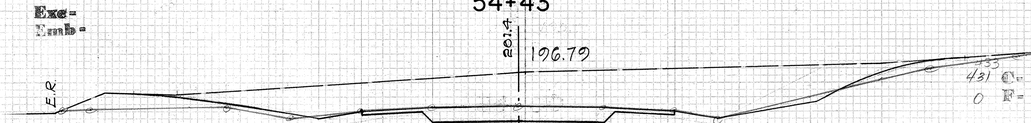
54+43



C= 449
F= 0

Exc=
Emb=

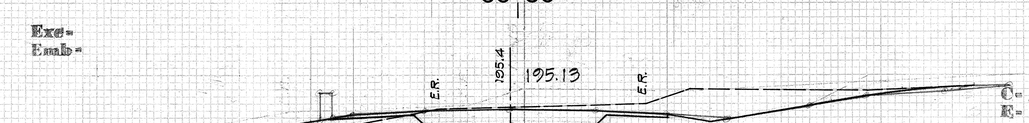
53+86



C= ~~364~~ 360
F= 0

Exc=
Emb=

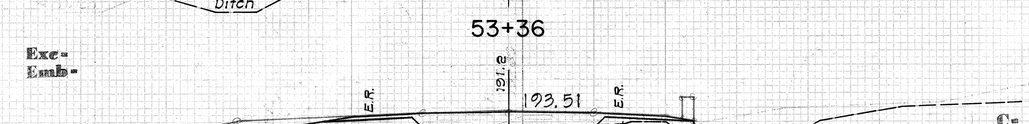
53+36



C= 174
F= 75

Exc=
Emb=

52+86



C= 4
F= ~~59~~

Exc=
Emb=

℄

S 5

PLATE 3 - CROSS SECTION, F.A.S.
CLEAR TIME PAPER 30 x 2 T. DAL
NO. 1032e 3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	86	113

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY PROJECT
NO. OF SHEETS

DESIGNED
DRAWN
TRACED
CHECKED
QUANTITIES CHECKED

DATE

NO.

REVISIONS

Exc =
Emb =

℄ 218.55
204.49
60+02
C = 0
F = 1275

Exc =
Emb =

℄ 229.26
210.5
63+04
C = 0
F = ~~1960~~ 1920

Exc =
Emb =

216.74
204.59
59+51
C = 0
F = 1063

Exc =
Emb =

227.49
207.7
62+54
C = 0
F = ~~2068~~ 2044

Exc =
Emb =

214.93
206.78
59+00
C = 0
F = 576

Exc =
Emb =

225.71
205.8
62+04
C = 0
F = 2011

Exc =
Emb =

213.15
208.33
58+50
C = 0
F = 315

Exc =
Emb =

223.90
205.58
61+53
C = 0
F = 1791

Exc =
Emb =

211.38
208.48
58+00
C = 0
F = 101

Exc =
Emb =

222.09
204.64
61+02
C = 0
F = 1706

Exc =
Emb =

209.61
208.37
57+50
C = 96
F = 8

Exc =
Emb =

220.32
204.65
60+52
C = 0
F = 1445

Exc =
Emb =

207.83
210.10
57+00
C = ~~159~~ 156
F = 0

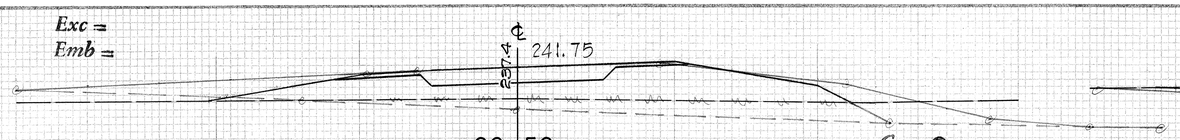
℄

S 6

86 10/99

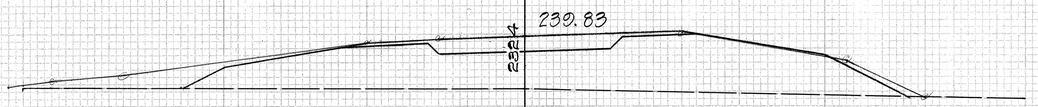
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	87	113

Exc =
Emb =



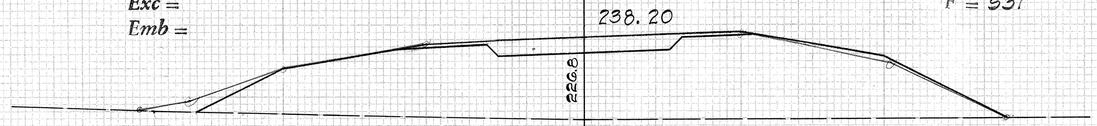
66+56
C = 0
F = ~~240~~ 363

Exc =
Emb =



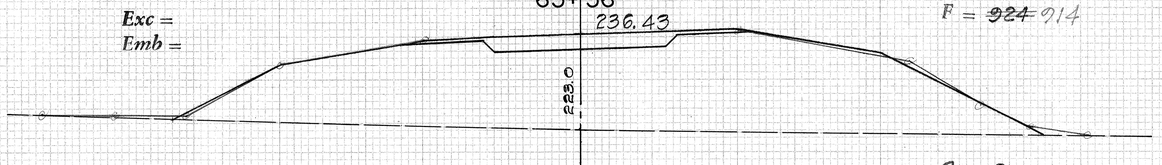
66+02
C = 0
F = 531

Exc =
Emb =



65+56
C = 0
F = ~~924~~ 914

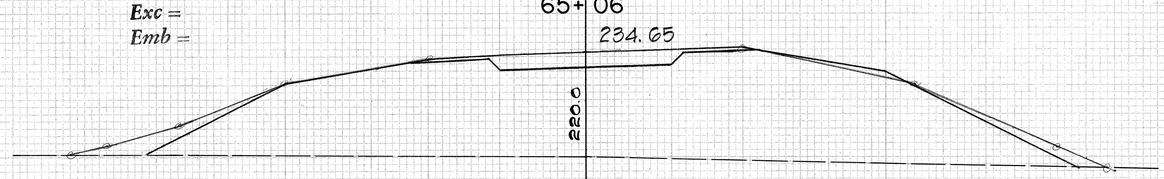
Exc =
Emb =



C = 0
F = 1163

65+06

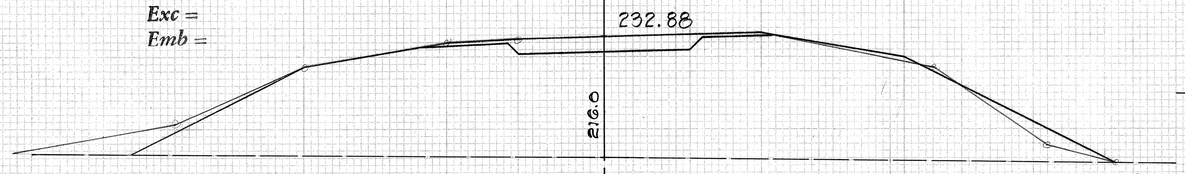
Exc =
Emb =



C = 0
F = ~~1379~~ 1370

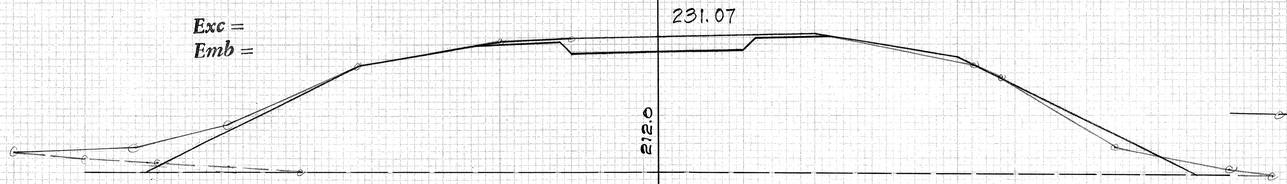
64+56

Exc =
Emb =



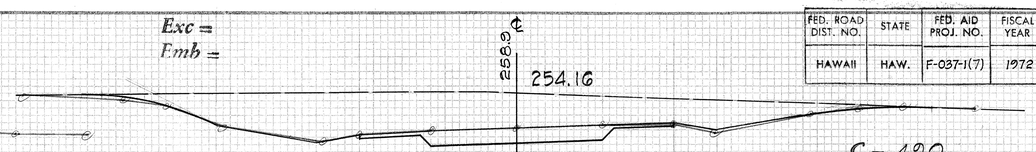
64+06
C = 0
F = ~~1633~~ 1603

Exc =
Emb =



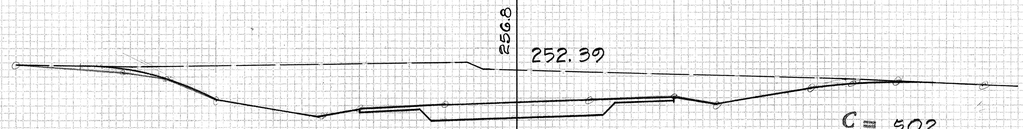
63+55 ℄
C = 0
F = ~~1969~~ 1938

Exc =
Emb =



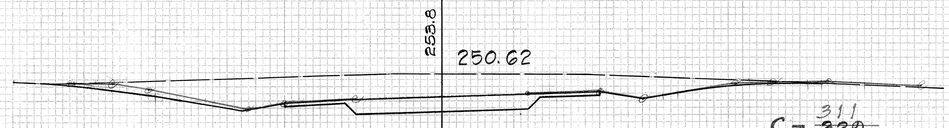
70+06
C = 490
F = 0

Exc =
Emb =



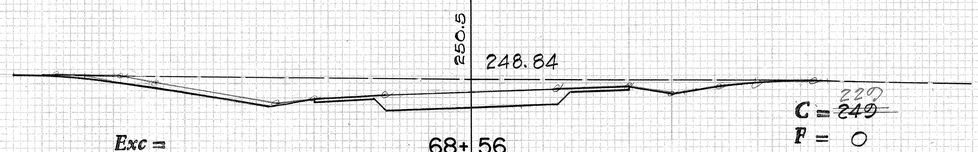
69+56
C = 502
F = 0

Exc =
Emb =



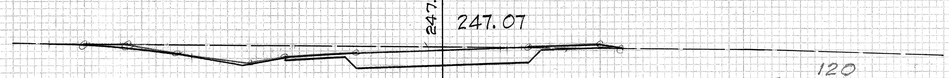
69+06
C = ~~329~~ 311
F = 0

Exc =
Emb =



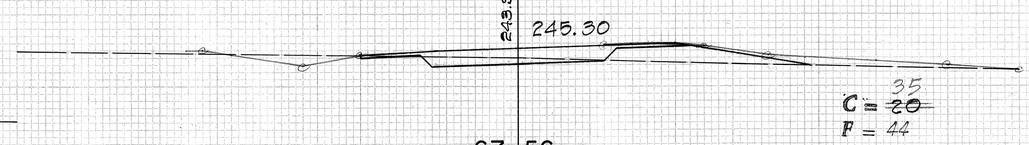
68+56
C = ~~249~~ 220
F = 0

Exc =
Emb =



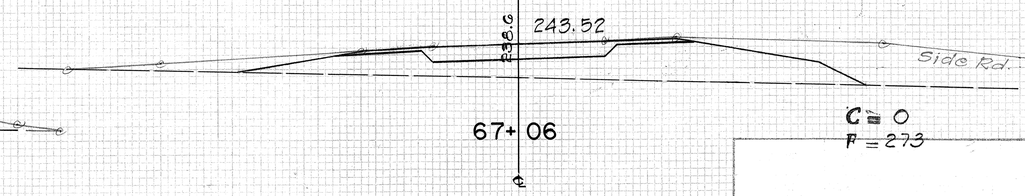
68+06
C = ~~124~~ 120
F = 0

Exc =
Emb =



67+56
C = ~~20~~ 35
F = 44

Exc =
Emb =



67+06 ℄
C = 0
F = 273

87 11/55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	88	113

278.1 ℄

266.58

C = 1207
F = 0

73+56

Exc =
Emb =

278.6

264.81

C = 846
F = 0

73+06

Exc =
Emb =

270.5

263.03

C 684
F = 0

72+56

Exc =
Emb =

267.4

261.26

C = 537
F = 0

72+06

Exc =
Emb =

264.2

259.48

C = 392
F = 0

71+56

Exc =
Emb =

261.8

257.71

C = 327
F = 0

71+06

Exc =
Emb =

260.3

255.94

C = ~~346~~ 338
F = 0

70+56

Exc =
Emb =

℄

Exc =
Emb =

291.8

277.22

C = 1524
F = 0

76+56

Exc =
Emb =

289.7

275.45

C = 1570
F = 0

76+06

Exc =
Emb =

288.0

273.68

C = 1585
F = 0

75+56

Exc =
Emb =

285.5

271.90

C = ~~1494~~ 1482
F = 0

75+06

Exc =
Emb =

283.6

270.13

C = ~~1464~~ 1461
F = 0

74+56

Exc =
Emb =

281.5

268.35

C = 1424
F = 0

74+06

Exc =
Emb =

℄

88 12/55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	89	113

80+08 — 289.71 — 303.2 — Exc = Emb = — C = 1599 F = 0

79+58 — 287.94 — 302.1 — ROCK PILE — Exc = Emb = — C = ~~1907~~ 1600 F = 0

79+08 — 286.16 — 299.4 — ROCK PILE — Exc = Emb = — C = ~~2088~~ 1606 F = 0

78+57 — 284.35 — 299.4 — Exc = Emb = — C = 1712 F = 0

78+06 — 282.54 — 294.5 — Exc = Emb = — C = 1672 F = 0

77+56 — 280.77 — 292.7 — Exc = Emb = — C = 1577 F = 0

77+06 — 279.00 — Exc = Emb = — C = 1505 F = 0

83+10 — 300.42 — 312.6 — Exc = Emb = — C = 1484 F = 0

82+59 — 298.62 — 311.0 — Exc = Emb = — C = 1564 F = 0

82+08 — 296.81 — 309.4 — Exc = Emb = — C = 1494 F = 0

81+58 — 295.03 — 308.0 — Exc = Emb = — C = 1567 F = 0

81+08 — 293.26 — 306.5 — Exc = Emb = — C = 1584 F = 0

80+58 — 291.48 — 304.8 — Exc = Emb = — C = ~~1559~~ 1550 F = 0

Detour Rd.

Borrow Area

Detour Rd.

89

13/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	90	118

Exc =
Emb =

322.0
E.P. E.P.
314.65
87+11
C = 914
F = 0

Exc =
Emb =

321.4
E.P. E.P.
312.91
86+62
C = 1000
F = 0

Exc =
Emb =

320.5
E.P. E.P.
311.21
86+14
C = 1039
F = 0

Exc =
Emb =

319.0
E.P. E.P.
309.40
85+63
C = 1152
F = 0

Exc =
Emb =

318.2
E.P. E.P.
307.59
85+12
C = 1267
F = 0

Exc =
Emb =

317.1
E.P. E.P.
305.82
84+62
C = 1328
F = 0

Exc =
Emb =

315.8
E.P. E.P.
304.04
84+12
C = 1366
F = 0

Exc =
Emb =

314.4
E.P. E.P.
302.23
83+61
C = 1464
F = 0

BORROW AREA
RIGHT SIDE ONLY

Exc =
Emb =

335.7
E.P. E.P.
330.35
SIDE ROAD
SIDE ROAD
91+54
C = ~~223~~ 217
F = 2

BORROW AREA
RIGHT SIDE ONLY

Exc =
Emb =

331.3
E.P. E.P.
328.59
91+04
C = 328
F = 0

Exc =
Emb =

329.9
E.P. E.P.
326.82
90+54
C = 416
F = 0

Exc =
Emb =

328.5
E.P. E.P.
Ditch
325.05
90+04
C = ~~439~~ 435
F = 0

Exc =
Emb =

327.5
E.P. E.P.
Ditch
323.31
89+55
C = ~~497~~ 494
F = 0

Exc =
Emb =

326.3
E.P. E.P.
Ditch
321.57
89+06
C = ~~569~~ 566
F = 0

Exc =
Emb =

325.6
E.P. E.P.
Ditch
319.79
88+56
C = ~~644~~ 641
F = ~~7~~ 0

Exc =
Emb =

323.5
E.P. E.P.
Ditch
318.06
88+07
C = ~~739~~ 731
F = 0

Exc =
Emb =

323.1
E.P. E.P.
316.35
87+59
C = ~~847~~ 835
F = 0

PLATE ... CROSS SECTIONS - F.A.U.
CLEARFIELD PAPER CO. S.F. DAL

9 (1)

HALEAKALA HIGHWAY 30 (2 14)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	91	113

Exc =
Emb =



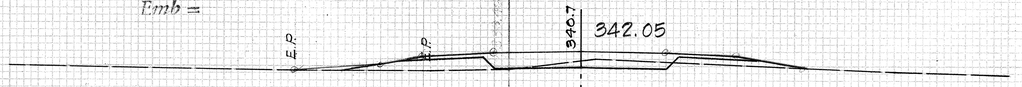
96+04
C = 0
F = 256

Exc =
Emb =



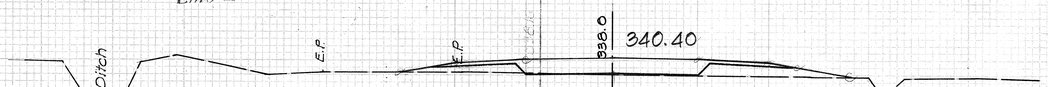
95+54
C = 0
F = 189

Exc =
Emb =



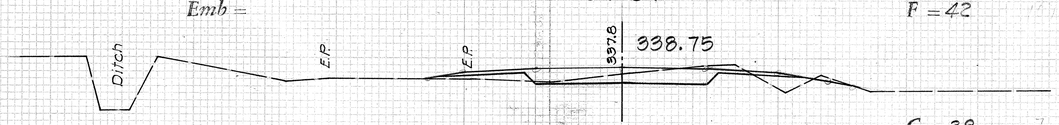
95+04
C = 19
F = 41

Exc =
Emb =



94+54
C = 0
F = 42

Exc =
Emb =



94+04
C = 38
F = 17

Exc =
Emb =



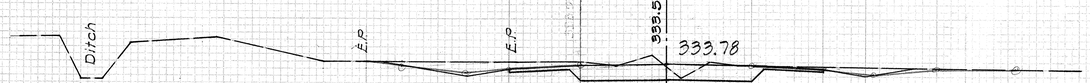
93+54
C = 47
F = 12

Exc =
Emb =



93+04
C = 106
F = 3

Exc =
Emb =



92+54
C = 107
F = 5

Exc =
Emb =



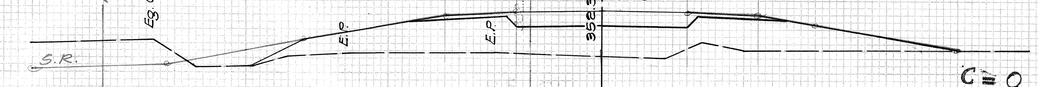
92+04
C = 202
F = 0

Exc =
Emb =



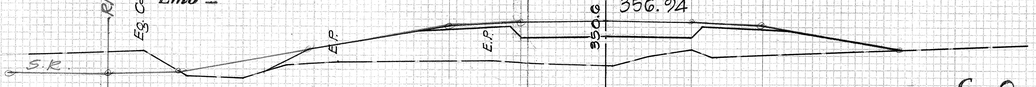
100+04
C = 0
F = 331

Exc =
Emb =



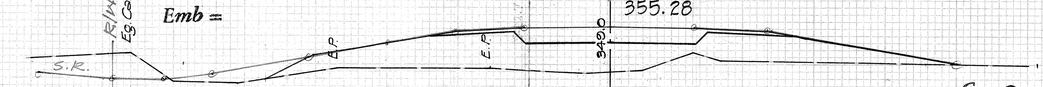
99+54
C = 0
F = 271

Exc =
Emb =



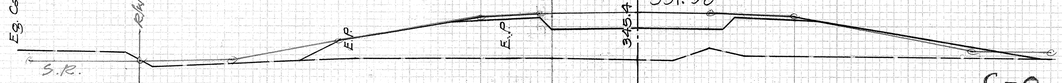
99+04
C = 0
F = 307

Exc =
Emb =



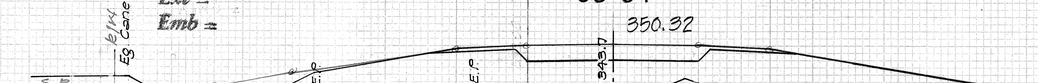
98+54
C = 0
F = 348

Exc =
Emb =



98+04
C = 0
F = 383

Exc =
Emb =



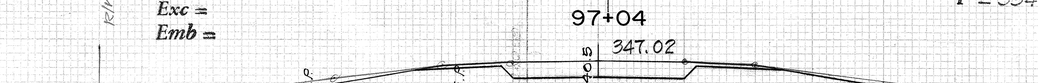
97+54
C = 0
F = 372

Exc =
Emb =



97+04
C = 0
F = 354

Exc =
Emb =



96+54
C = 0
F = 352

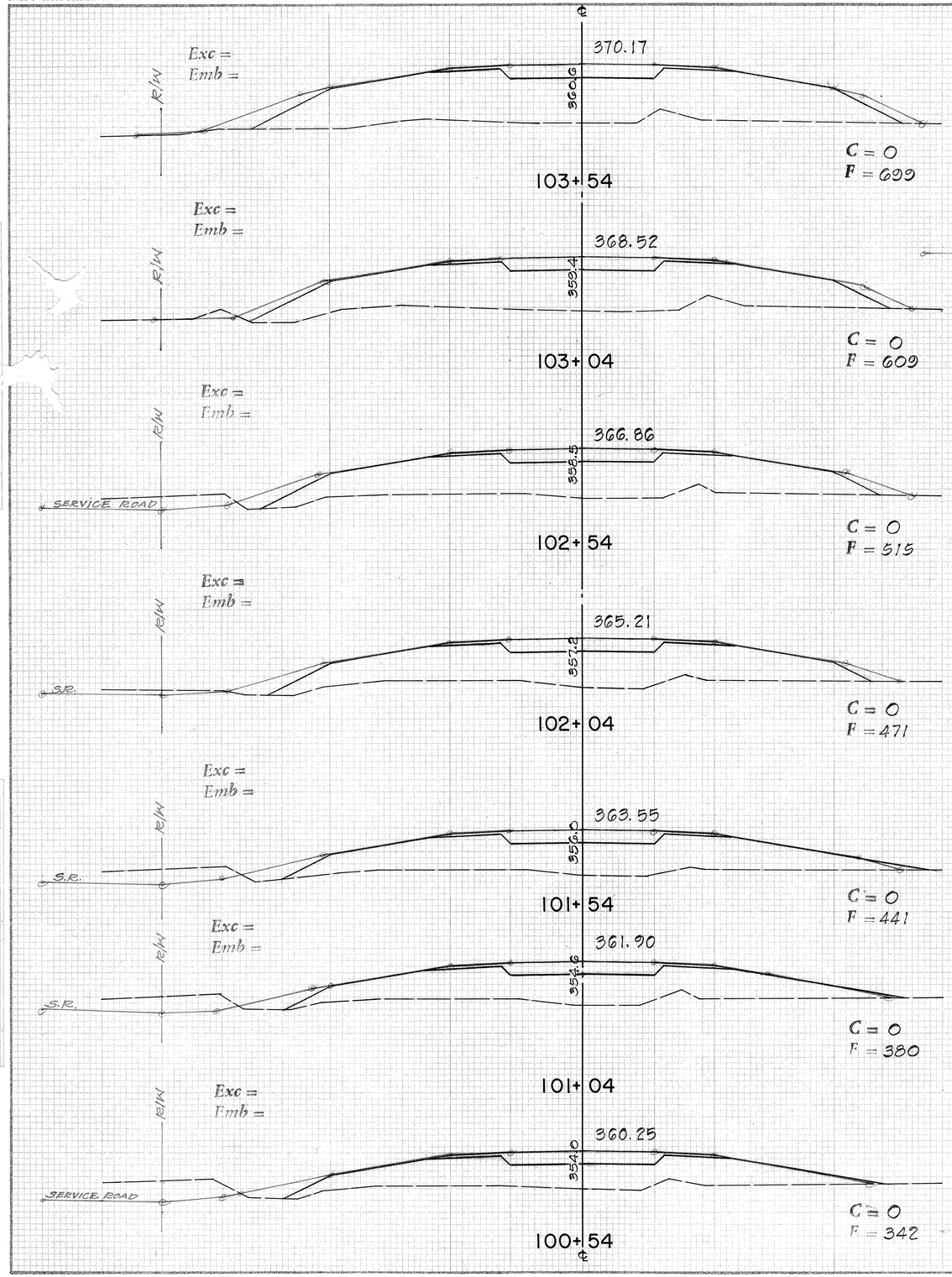
FINAL SURVEY
CHECKED
TRACED
NOTE BOOK
PLOTTED
TEMPLATE
AREAS CHECKED
NO.
DATE

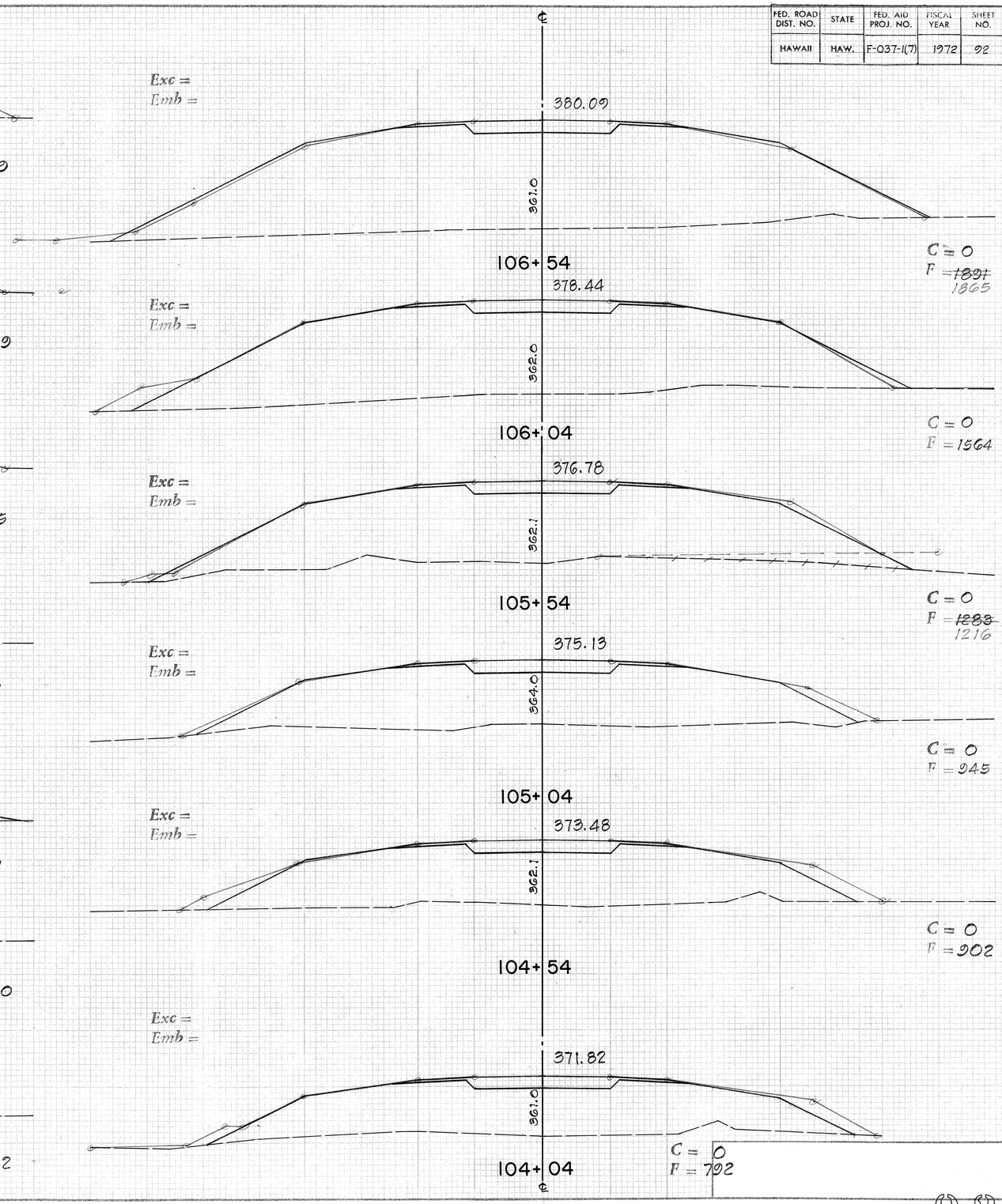
FINAL CROSS SECTION, E.A.P.
DEPARTMENT OF P.W., S.L.CTY.

91

HALEIWA — KAHUKU

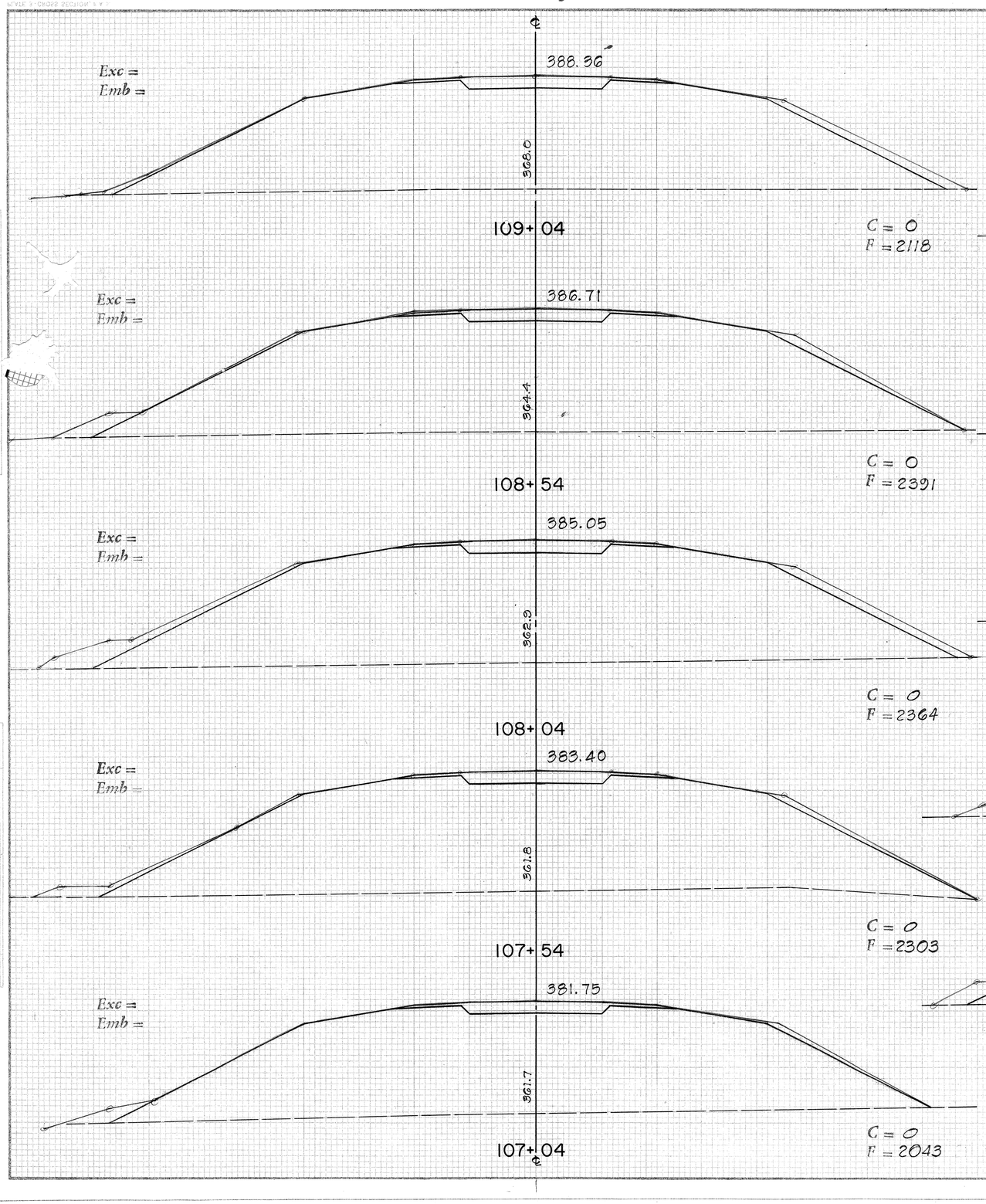
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	92	113

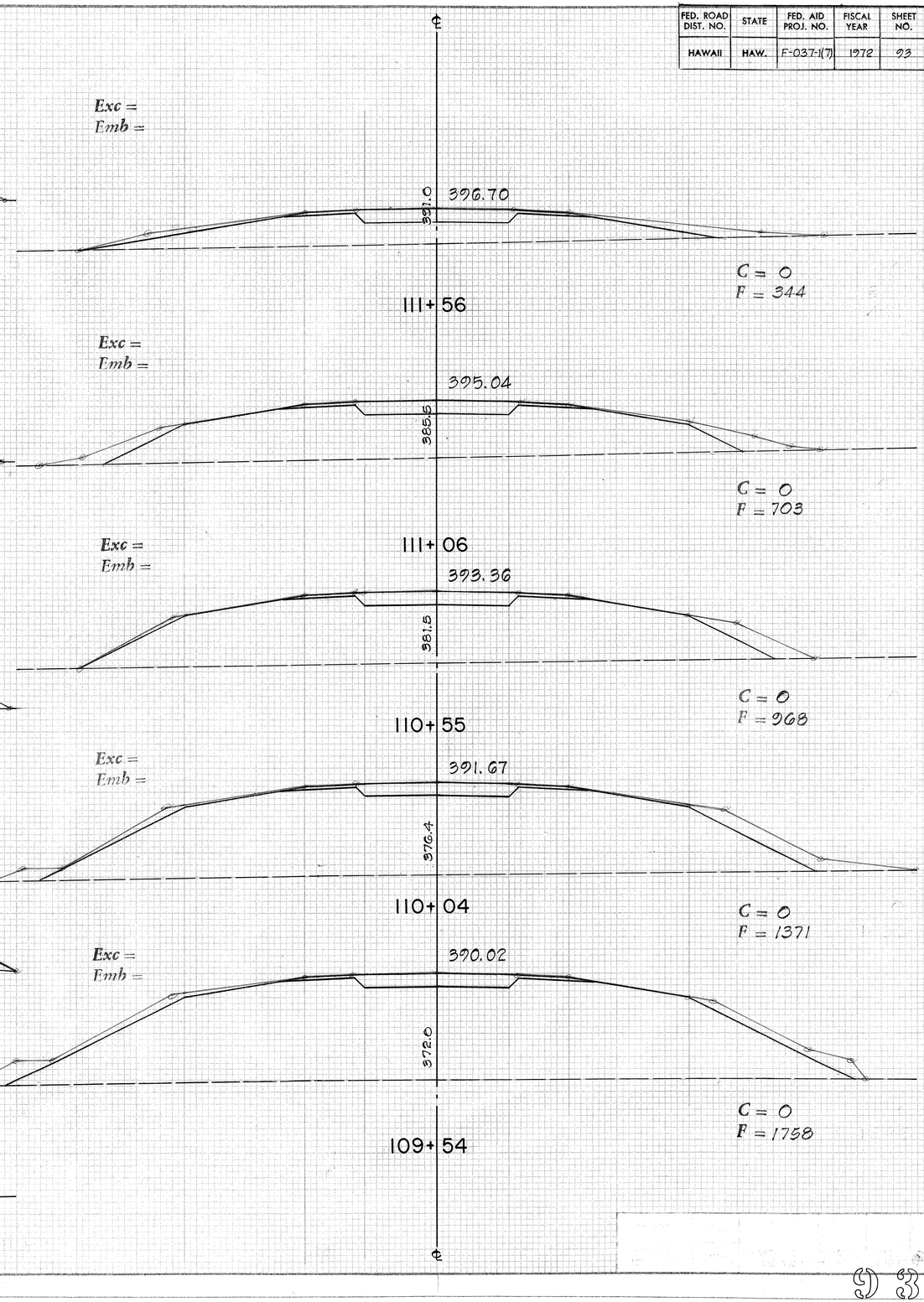




92

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	93	113





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	94	113

BORROW AREA
RT. SIDE ONLY

Exc =
Emb =

℄ 314.5
406.59
C = ~~921~~ 893
F = 0
114+55

Exc =
Emb =

℄ 312.7
404.97
C = ~~877~~ 836
F = 0
114+06

Exc =
Emb =

℄ 403.7
403.31
C = ~~734~~ 709
F = 0
113+56

Exc =
Emb =

℄ 405.2
401.66
C = ~~451~~ 441
F = 0
113+06

Exc =
Emb =

℄ 400.6
400.00
C = 173
F = 0
112+56

Exc =
Emb =

℄ 396.0
398.35
C = 1
F = 42
112+06

Exc =
Emb =

℄ 421.5
416.35
C = ~~513~~ 501
F = 0
117+50

Exc =
Emb =

℄ 420.9
414.69
C = 659
F = 0
117+00

Exc =
Emb =

℄ 419.3
413.04
C = ~~710~~ 682
F = 0
116+50

Exc =
Emb =

℄ 418.6
411.38
C = 733
F = 0
116+00

Exc =
Emb =

℄ 417.4
409.80
C = 878
F = 0
115+52

Exc =
Emb =

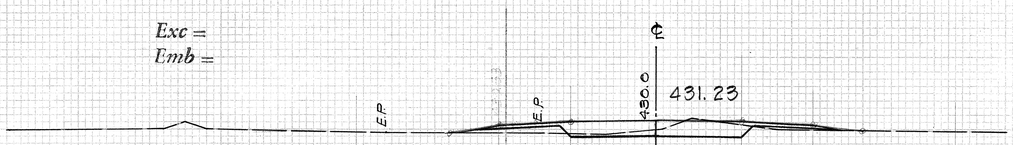
℄ 416.9
408.21
C = ~~970~~ 954
F = 0
115+04

BORROW AREA
RT. SIDE ONLY

94 18/35

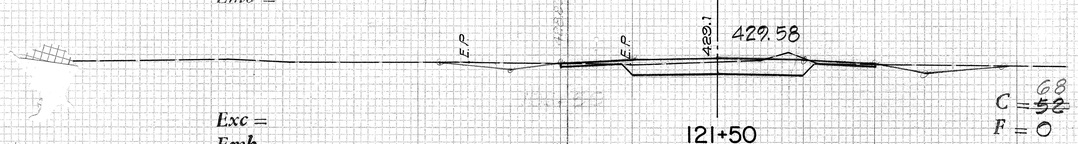
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	95	113

Exc =
Emb =



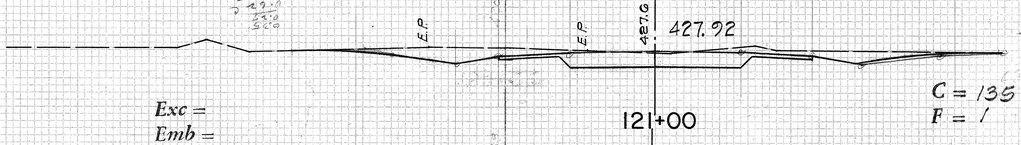
122+00
C = 28
F = 9

Exc =
Emb =



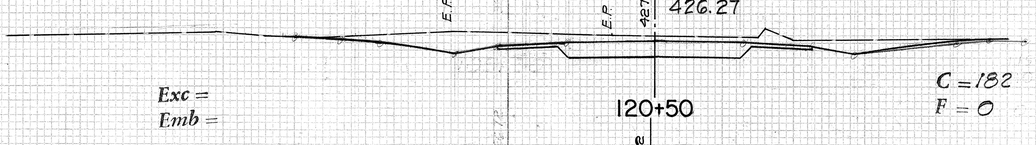
121+50
C = ~~52~~ 68
F = 0

Exc =
Emb =



121+00
C = 135
F = 1

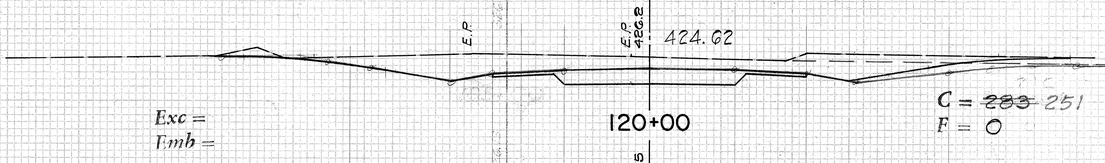
Exc =
Emb =



120+50
C = 182
F = 0

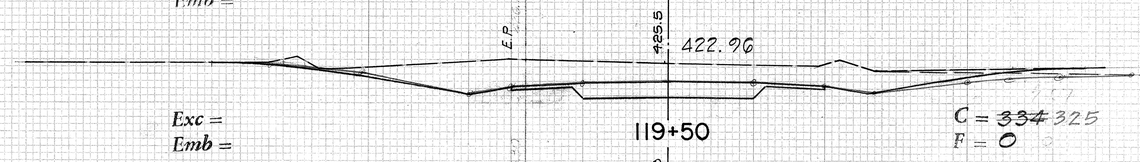
BORROW AREA
RT. SIDE ONLY

Exc =
Emb =



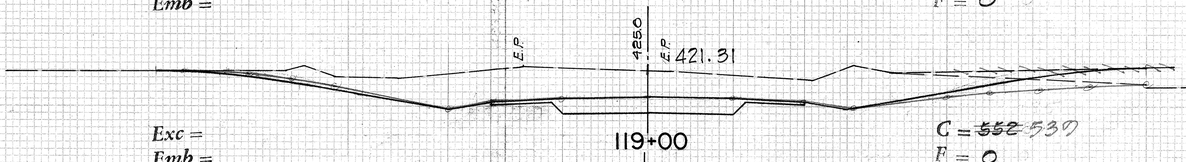
120+00
C = ~~283~~ 251
F = 0

Exc =
Emb =



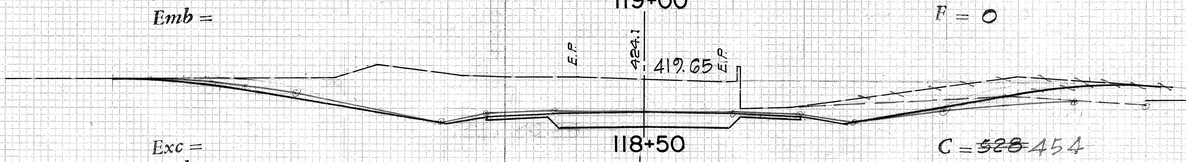
119+50
C = ~~334~~ 325
F = 0

Exc =
Emb =



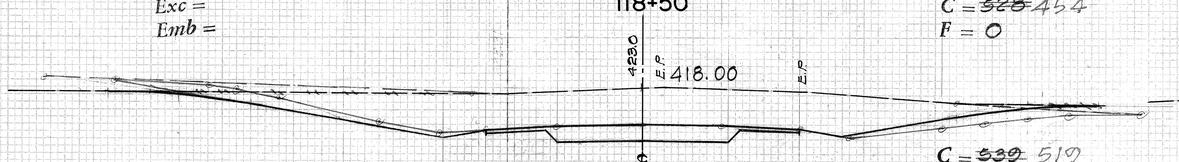
119+00
C = ~~552~~ 537
F = 0

Exc =
Emb =



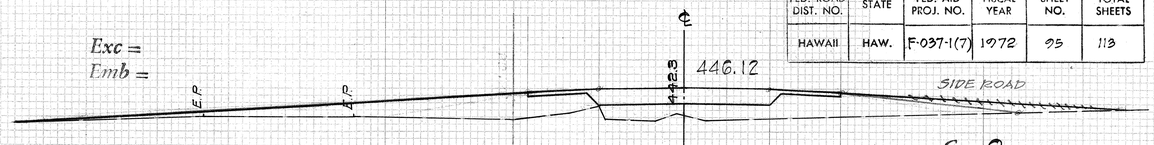
118+50
C = ~~528~~ 454
F = 0

Exc =
Emb =



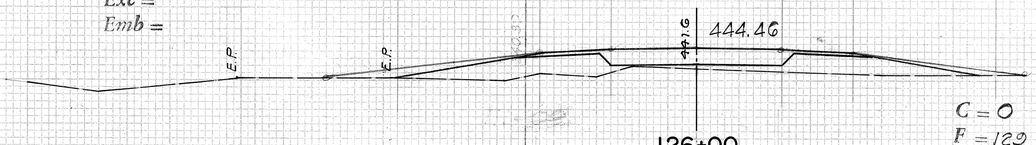
℄
118+00
C = ~~539~~ 519
F = 0

Exc =
Emb =



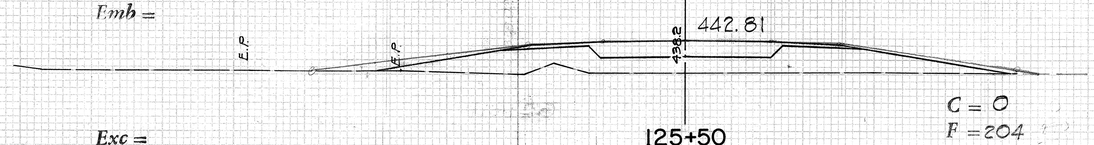
126+50
C = 0
F = ~~280~~ 262

Exc =
Emb =



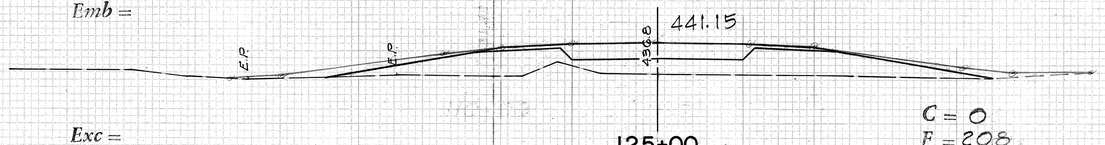
126+00
C = 0
F = 129

Exc =
Emb =



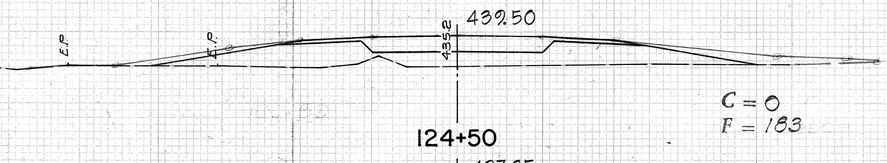
125+50
C = 0
F = 204

Exc =
Emb =



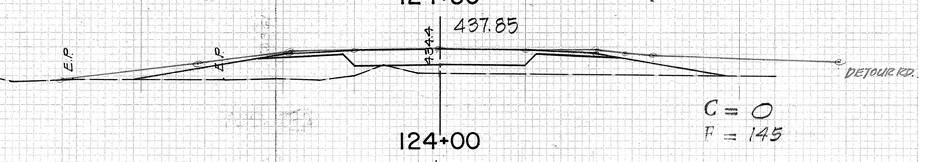
125+00
C = 0
F = 208

Exc =
Emb =



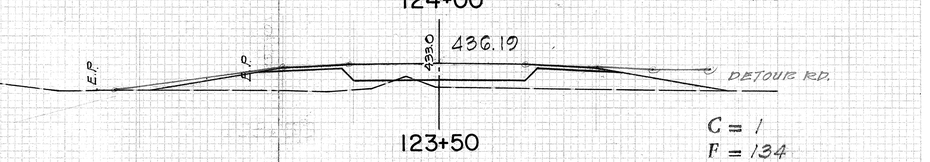
124+50
C = 0
F = 183

Exc =
Emb =



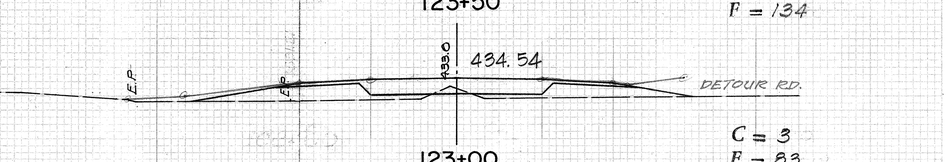
124+00
C = 0
F = 145

Exc =
Emb =



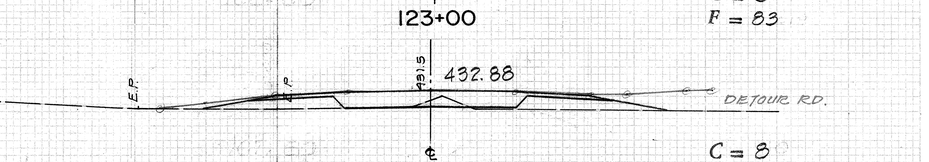
123+50
C = 1
F = 134

Exc =
Emb =



123+00
C = 3
F = 83

Exc =
Emb =



℄
122+50
C = 8
F = 49

PLATE 9 CROSS SECTIONS, P.A.S.
CLEARY PAVING CO., S.F.CA.

95

WAILEKOLE REALIGNMENT 95 113

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	96	113

Exc =
Emb =

461.00

457.3

E.P. E.P.

C = 7
F = 141

131+00

Exc =
Emb =

459.35

456.3

E.P. E.P.

C = 0
F = 89

130+50

Exc =
Emb =

457.69

454.3

E.P. E.P.

C = 10
F = 109

130+00

Exc =
Emb =

456.04

452.5

E.P. E.P.

C = 0
F = 121

129+50

Exc =
Emb =

454.38

450.8

E.P. E.P.

C = 5
F = 124

129+00

Exc =
Emb =

452.73

449.1

E.P. E.P.

C = 0
F = 119

128+50

Exc =
Emb =

451.08

448.0

E.P. E.P.

C = ~~6~~ 2
F = 93

128+00

Exc =
Emb =

449.42

446.6

E.P. E.P.

C = 0
F = 76

127+50

Exc =
Emb =

447.77

442.4

E.P. E.P.

S.R.

C = 0
F = 265

127+00

Exc =
Emb =

475.88

470.2

E.P. E.P.

C = 0
F = 258

135+50

Exc =
Emb =

474.23

469.2

E.P. E.P.

C = 0
F = 254

135+00

Exc =
Emb =

472.58

467.7

E.P. E.P.

C = 0
F = 248

134+50

Exc =
Emb =

470.92

466.3

E.P. E.P.

C = 0
F = 207

134+00

Exc =
Emb =

469.27

465.2

E.P. E.P.

C = 4
F = 167

133+50

Exc =
Emb =

467.62

463.6

E.P. E.P.

C = 5
F = 169

133+00

Exc =
Emb =

465.96

462.6

E.P. E.P.

C = 7
F = 119

132+50

Exc =
Emb =

464.31

461.0

E.P. E.P.

C = 18
F = 108

132+00

Exc =
Emb =

462.65

459.2

E.P. E.P.

C = 18
F = 124

131+50

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.

NO. 1003-S

9 6

HALEAKALA HIGHWAY 96 20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	97	113

℄
185.2
487.46
C = 0
F = 44
139+00

Exc =
Emb =
S.R.
183.0
485.81
S.R.
C = 0
F = 115
138+50

Exc =
Emb =
S.R.
481.5
484.15
S.R.
C = 0
F = 112
138+00

Exc =
Emb =
478.5
482.50
C = 0
F = 154
137+50

Exc =
Emb =
477.5
480.85
C = 0
F = 279
137+00

Exc =
Emb =
476.7
479.19
C = 0
F = 43
136+50

Exc =
Emb =
474.0
477.54
C = 0
F = 304
℄
136+00

Exc =
Emb =
℄
501.2
498.34
C = ~~315~~ 311
F = 0
142+04

Exc =
Emb =
498.6
496.43
C = ~~266~~ 262
F = 0
141+54

Exc =
Emb =
℄
495.4
494.58
C = ~~163~~ 157
F = 0
141+04

Exc =
Emb =
492.6
493.73
C = 29
F = 6
140+53

Exc =
Emb =
489.7
490.93
C = 27
F = 8
140+02

Exc =
Emb =
487.2
489.17
C = 8
F = 32
℄
139+51

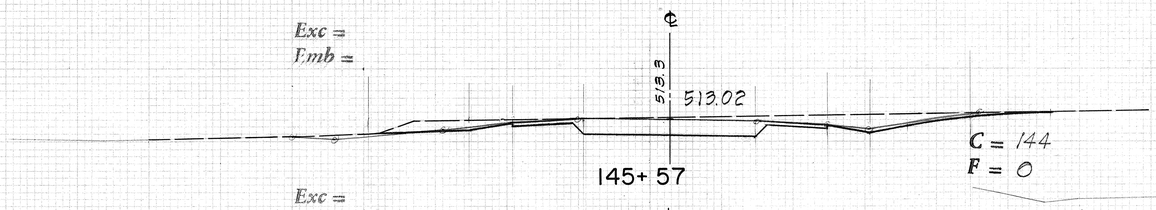
Exc =
Emb =

PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000H-3

97

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	98	113

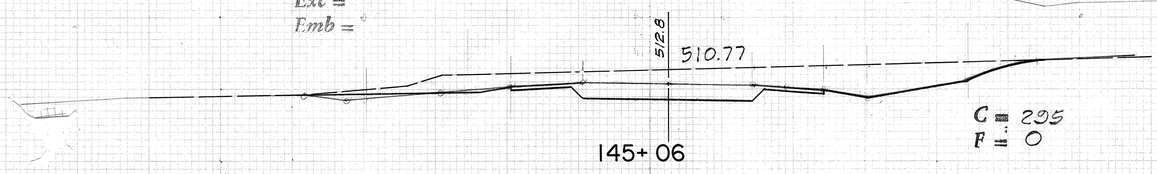
Exc =
Emb =



C = 144
F = 0

145+ 57

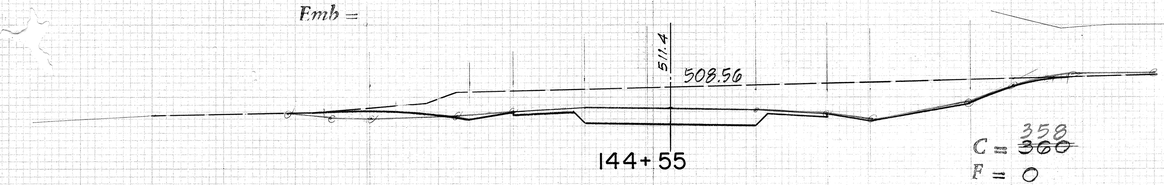
Exc =
Emb =



C = 295
F = 0

145+ 06

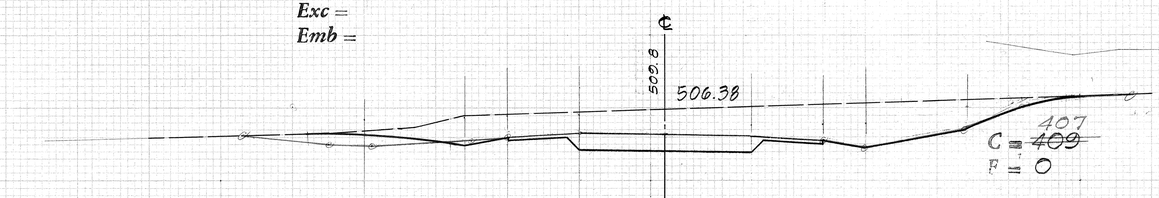
Exc =
Emb =



C = ~~360~~ 358
F = 0

144+ 55

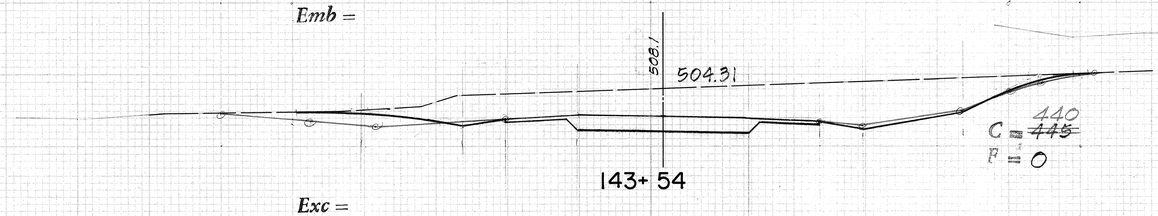
Exc =
Emb =



C = ~~409~~ 407
F = 0

144+ 04

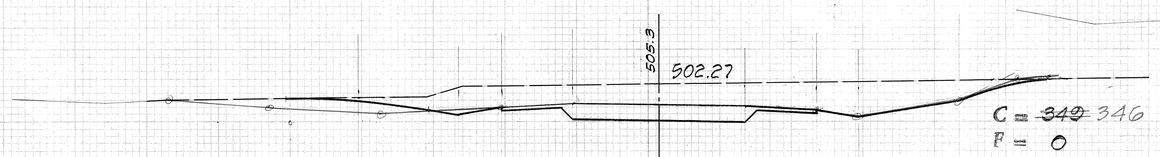
Exc =
Emb =



C = ~~445~~ 440
F = 0

143+ 54

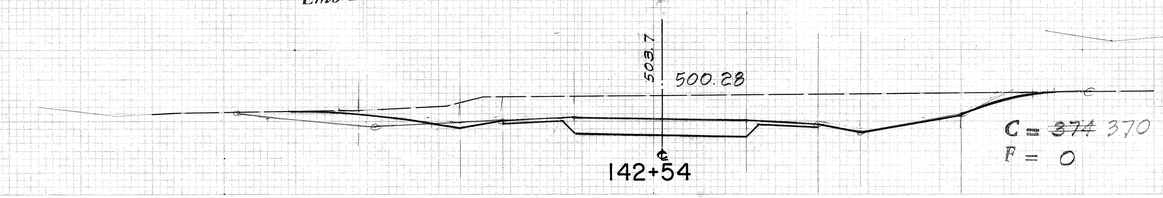
Exc =
Emb =



C = ~~349~~ 346
F = 0

143+ 04

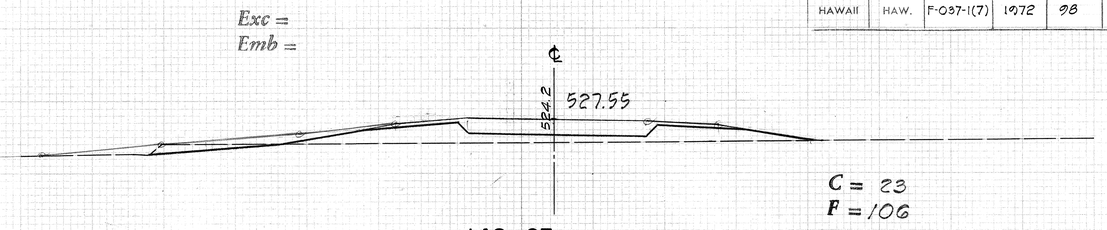
Exc =
Emb =



C = ~~374~~ 370
F = 0

142+54

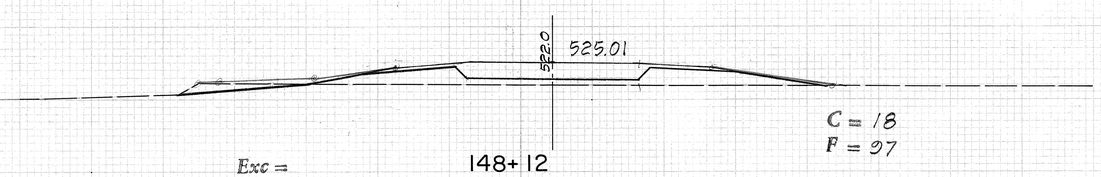
Exc =
Emb =



C = 23
F = 106

148+ 63

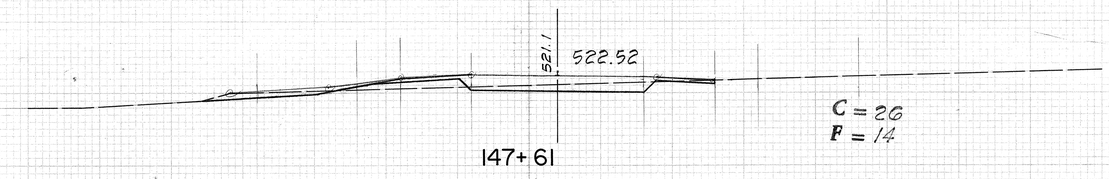
Exc =
Emb =



C = 18
F = 97

148+ 12

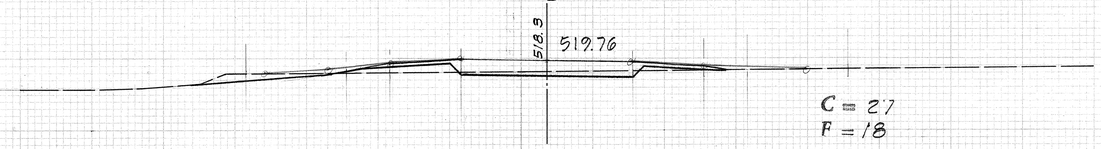
Exc =
Emb =



C = 26
F = 14

147+ 61

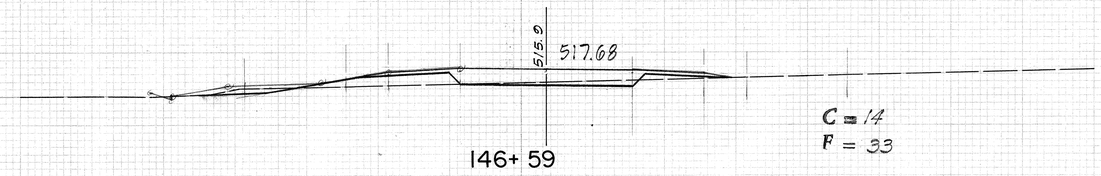
Exc =
Emb =



C = 27
F = 18

147+ 10

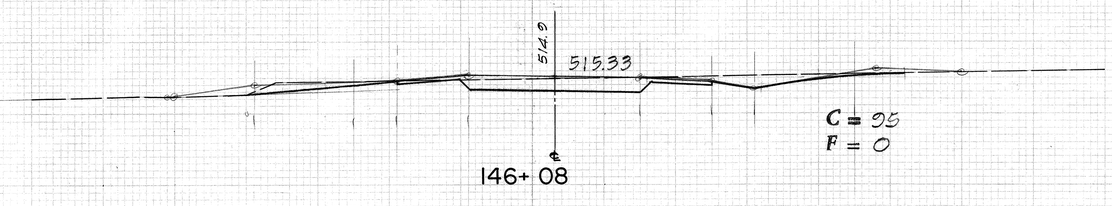
Exc =
Emb =



C = 14
F = 33

146+ 59

Exc =
Emb =



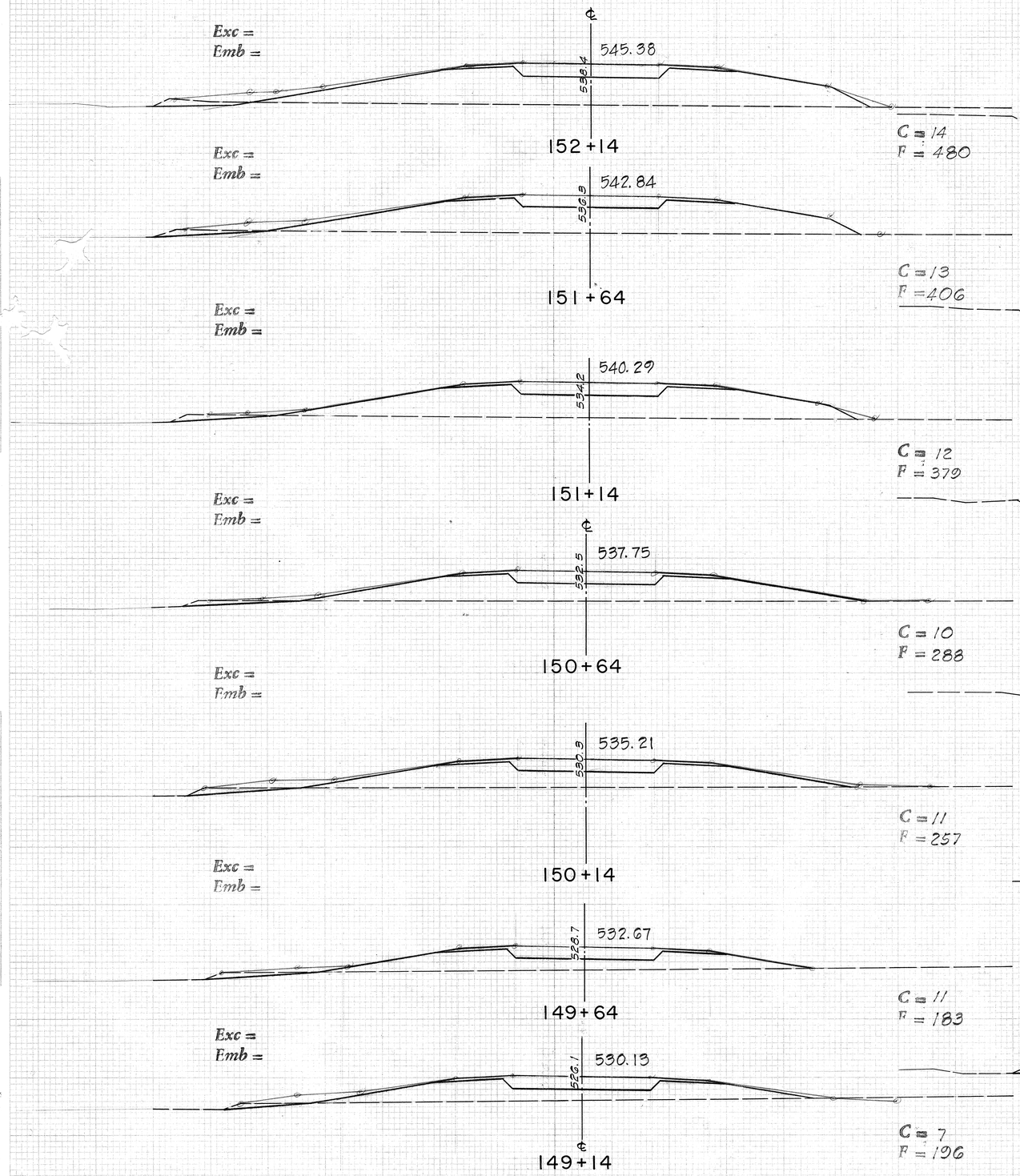
C = 95
F = 0

146+ 08

PLATE 3-CROSS SECTION, F.A.S.
CLEARMONT PAPER CO., S. F. CAL.
NO. 1500M-3

98 23/25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	99	113



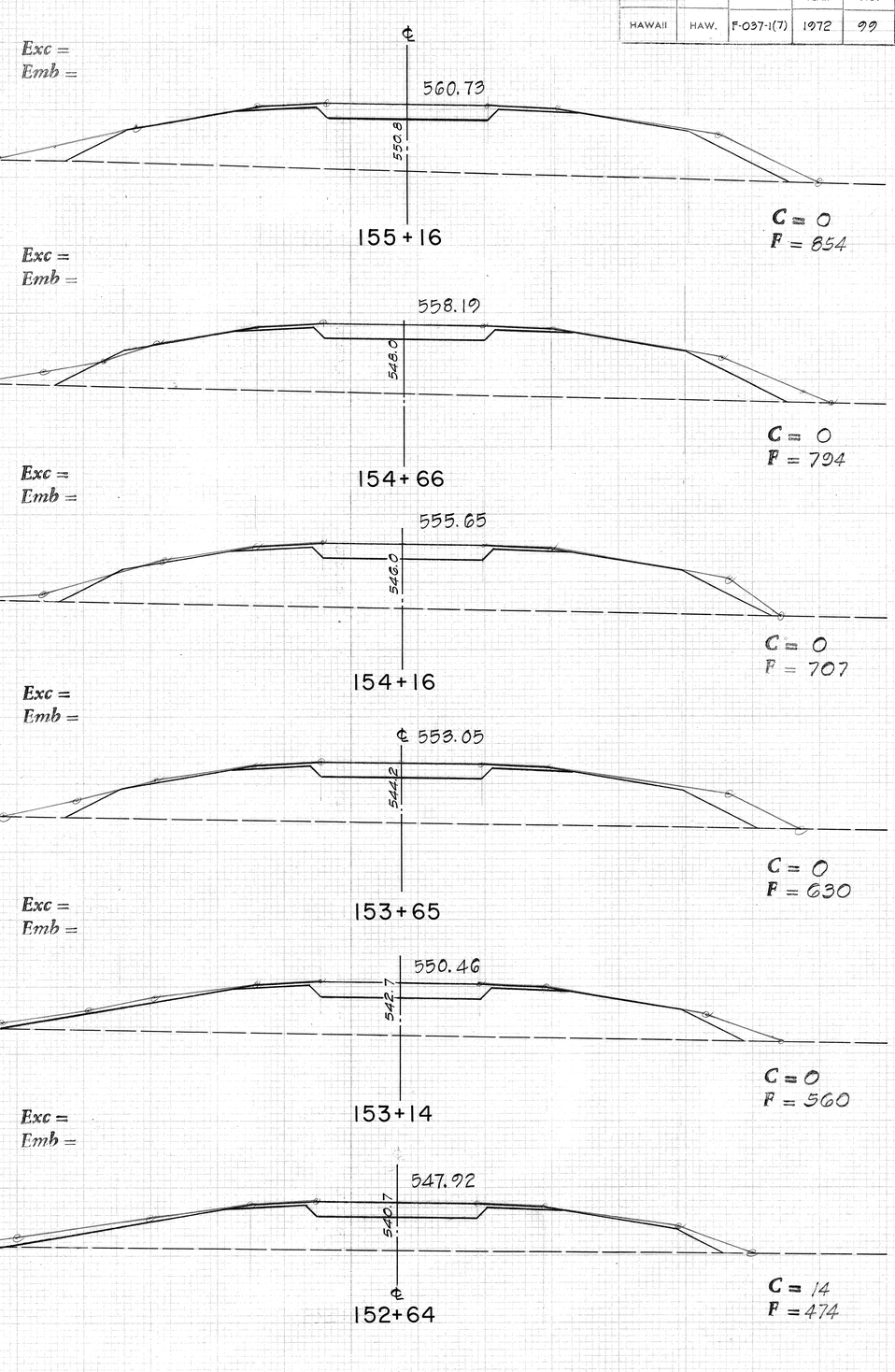


PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 100IN-3

99 23/33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	100	113

Exc =
Emb =

578.62
570.7
158+68
C = 0
F = 542

Exc =
Emb =

576.08
568.5
C = 0
F = 536

Exc =
Emb =

573.54
565.5
158+18
C = 0
F = ~~1155~~ 724

Exc =
Emb =

571.00
562.5
S.R.
S.R.
157+68
C = 0
F = 618

Exc =
Emb =

568.46
559.6
S.R. FILL
157+18
C = 0
F = 645

Exc =
Emb =

565.91
556.4
156+68
C = 0
F = 715

Exc =
Emb =

563.32
553.6
156+18
C = 0
F = 683

Exc =
Emb =

593.87
580.9
161+68
C = 0
F = ~~1119~~ 1,111

Exc =
Emb =

591.33
580.5
161+18
C = 0
F = 874

Exc =
Emb =

588.79
578.3
160+68
C = 0
F = 817

Exc =
Emb =

586.25
577.0
160+18
C = 0
F = 682

Exc =
Emb =

583.70
575.1
159+68
C = 0
F = 611

Exc =
Emb =

581.16
573.5
159+18
C = 0
F = 520

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F. CAL.
NO. 1009H-3

100

24/39

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	101	113

FINAL SURVEY — SURVEYED BY, COMPUTED, TRIANGULATE, NOTE BOOK, AREAS, MEAS. CHECKED, DATE, BY, NO.

℄ 610.75
599.6
165+00
Exc =
Emb =
C = 0
F = ~~955~~ 645

608.21
594.8
164+50
Exc =
Emb =
C = 0
F = ~~1,238~~ 1,058

605.67
591.8
164+00
Exc =
Emb =
C = 0
F = ~~1,321~~ 1,186

603.12
588.7
163+50
Exc =
Emb =
C = 0
F = ~~1,404~~ 1,310

℄ 600.58
587.2
163+00
Exc =
Emb =
C = 0
F = ~~1,271~~ 1,244

598.50
585.8
162+59
Exc =
Emb =
C = 0
F = ~~1,207~~ 1,152

596.41
583.0
℄ 162+18
Exc =
Emb =
C = 0
F = ~~1,260~~ 1,155

Exc =
Emb =

℄ 627.6
625.69
167+94
C = ~~257~~ 370
F = 0

Exc =
Emb =

625.3
623.15
167+44
C = 267
F = 0

Exc =
Emb =

622.0
620.61
166+94
C = 221
F = 0

Exc =
Emb =

℄ 617.4
618.07
166+44
C = ~~65~~ 125
F = 4

Exc =
Emb =

612.0
615.53
165+94
C = 15
F = ~~171~~ 61

Exc =
Emb =

607.9
613.14
℄ 165+47
C = 0
F = 331

Exc =
Emb =

PLATE 3 CROSS SECTION, F.A.S. CLEARPRINT PAPER CO., S. F. CAL. NO. 1020M-3

101

10' 25/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	102	113

Exc =
Emb =

642.0 638.25

C = 456
F = 0

Exc =
Emb =

170+41

638.8 635.76

C = 419
F = 0

Exc =
Emb =

169+92

635.5 633.27

C = 323
F = 0

Exc =
Emb =

169+43

634.2 630.78

C = 422
F = 0

Exc =
Emb =

168+94

631.4 628.23

C = 402
F = 0

Exc =
Emb =

168+44

Exc =
Emb =

653.3 648.31

C = 567
F = 18

Exc =
Emb =

172+39

650.6 645.77

C = 531
F = 0

Exc =
Emb =

171+89

648.6 643.28

C = 562
F = 0

Exc =
Emb =

171+40

645.8 640.74

C = ~~550~~ 547
F = 0

Exc =
Emb =

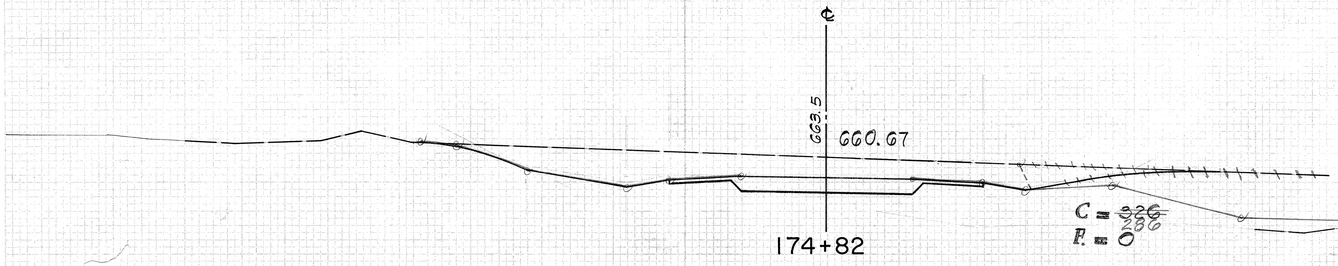
170+90

PLATE 3-CROSS SECTION, F.A.S. NO. 10004-3
CLEARPRINT PAPER CO., S. F. CAL.

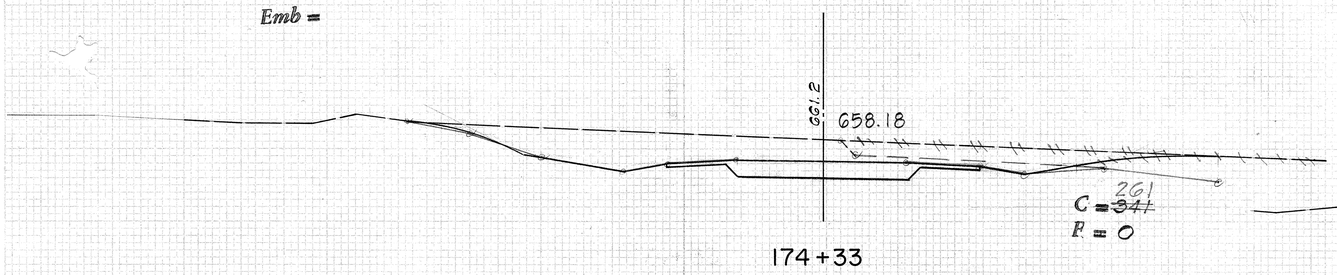
102

107 26/35

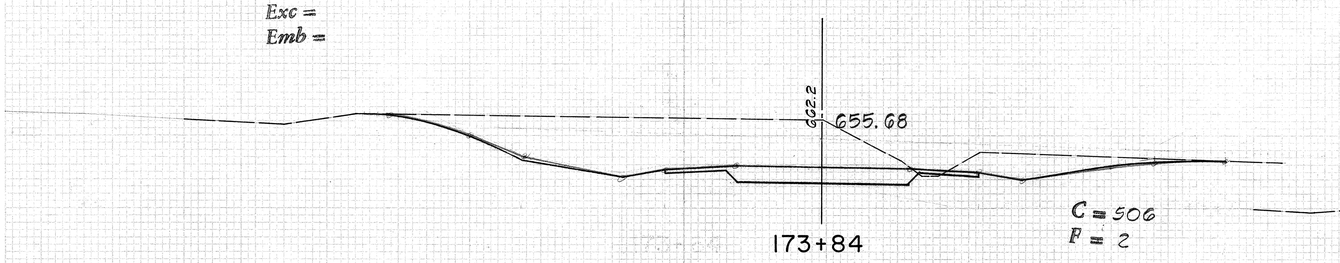
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	103	113



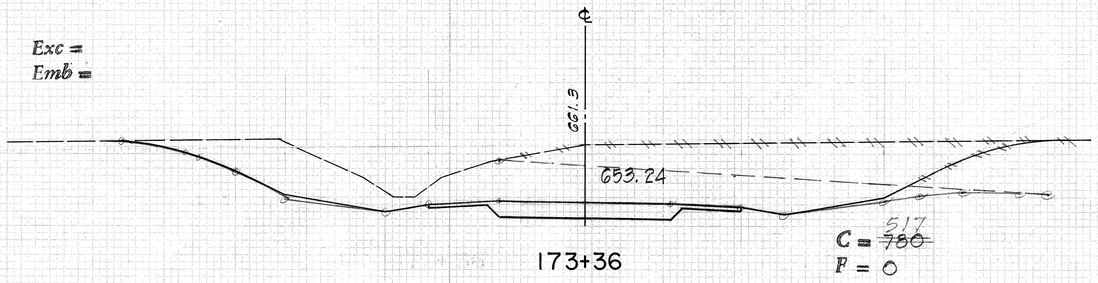
Exc =
Emb =



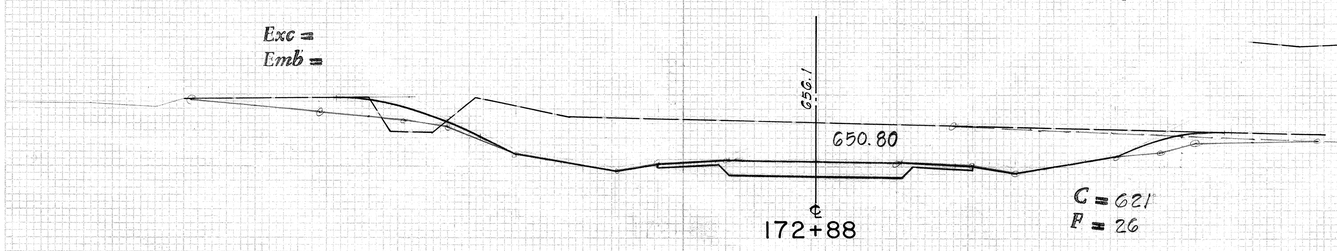
Exc =
Emb =



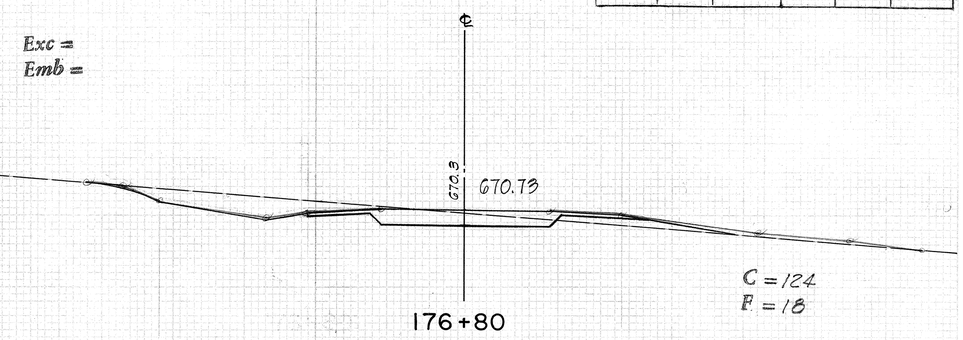
Exc =
Emb =



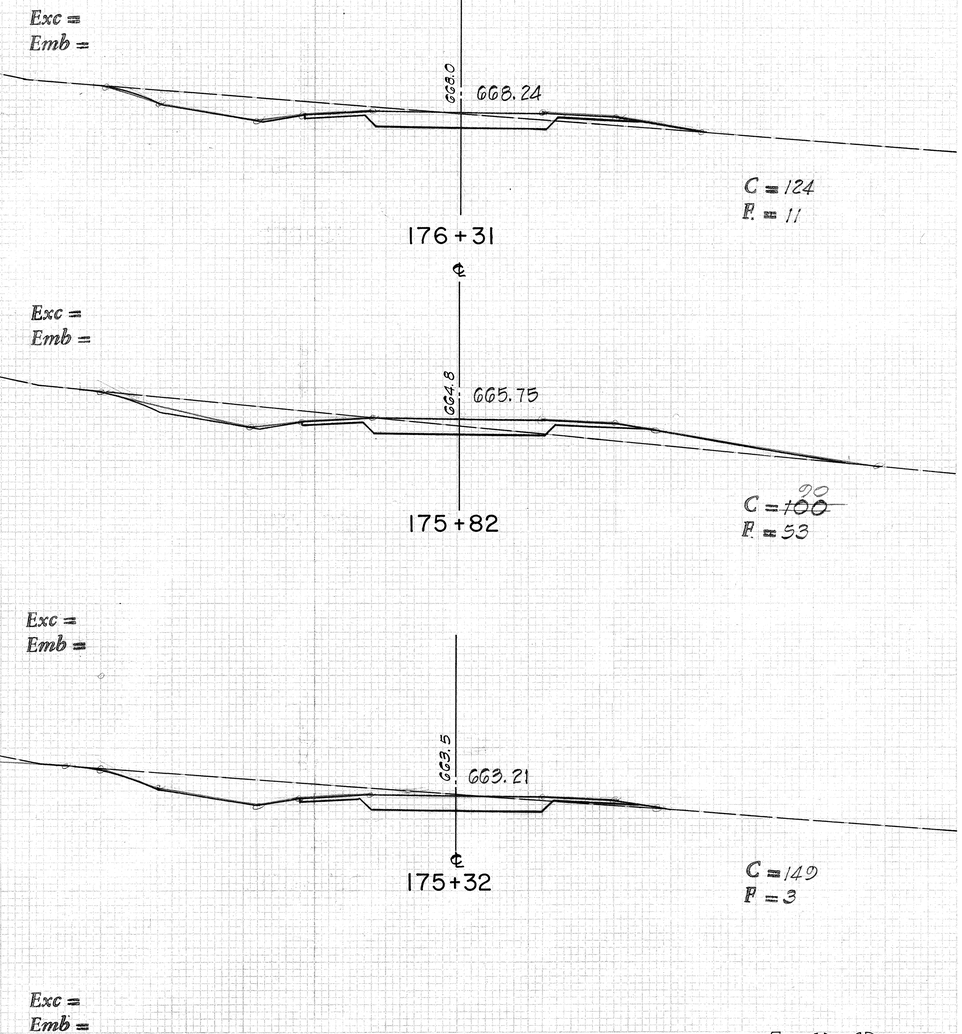
Exc =
Emb =



Exc =
Emb =



Exc =
Emb =



Exc =
Emb =

Exc =
Emb =

PLATE 1 CROSS SECTION, F.A.S.
SCALE: 1" = 10' H. & V.

NO. 1(109-)

103

27/45

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	104	113

FINAL SURVEY — SURVEYED / COMPUTED / TEMPLATE / AREAS / CHECKED / NOTE BOOK / INITIAL / NO. / DATE

Exc =
Emb =

180 + 25
685.5 | 688.27
C = 0
F = ~~70~~ 285

Exc =
Emb =

179 + 74
684.4 | 685.68
C = ~~26~~ 0
F = ~~8~~ 513

Exc =
Emb =

179 + 24
681.0 | 683.13
C = 0
F = ~~30~~ 540

Exc =
Emb =

178 + 74
677.8 | 680.59
C = 0
F = ~~81~~ 406

Exc =
Emb =

178 + 25
674.0 | 678.10
C = 0
F = ~~198~~ 243

Exc =
Emb =

177 + 76
672.9 | 675.61
C = 10
F = ~~107~~ 100

Exc =
Emb =

177 + 28
671.8 | 673.17
C = 62
F = 37

Exc =
Emb =

183 + 26
704.9 | 703.57
S.R.
C = ~~250~~ 200
F = ~~0~~ 3

Exc =
Emb =

182 + 76
703.0 | 701.03
S.R.
C = ~~203~~ 120
F = ~~0~~ 3

Exc =
Emb =

182 + 26
699.4 | 698.49
C = ~~185~~ 141
F = ~~0~~ 3

Exc =
Emb =

181 + 76
696.3 | 695.94
C = ~~147~~ 102
F = ~~0~~ 6

Exc =
Emb =

181 + 26
693.2 | 693.40
C = ~~87~~ 74
F = ~~0~~ 18

Exc =
Emb =

180 + 76
692.0 | 690.86
C = 10
F = ~~28~~ 83

PLATE 5 - CROSS SECTION, F.A.S.
KEUFFEL & ESSER CO., S. F. CAL. NO. 1000H-3

104

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	105	113

Exc =
Emb =

℄ 732.0
721.56
C = ~~2,137~~ 1926
F = 0
186+ 80

Exc =
Emb =

℄ 735.5
718.97
C = ~~2,005~~ 1905
F = 0
186+ 29

Exc =
Emb =

℄ 731.8
716.38
C = ~~1,852~~ 1752
F = 0
185+ 78

Exc =
Emb =

℄ 724.6
713.84
C = ~~1,272~~ 1256
F = 0
185+ 28

Exc =
Emb =

℄ 716.7
711.30
C = ~~633~~ 728
F = 0
184+ 78

Exc =
Emb =

℄ 712.7
708.70
C = ~~492~~ 487
F = 0
184+ 27

Exc =
Emb =

℄ 705.5
706.16
C = ~~406~~ 266
F = 0
183+ 77

Exc =
Emb =

℄ 758.0
736.71
C = ~~1,976~~ 2,171
F = 0
189+ 78

Exc =
Emb =

℄ 752.0
734.17
C = ~~1,995~~ 2,305
F = 0
189+ 28

Exc =
Emb =

℄ 750.8
731.63
C = ~~2,132~~ 2,350
F = 0
188+ 78

Exc =
Emb =

℄ 748.8
729.14
C = ~~2,102~~ 2,082
F = 0
188+ 29

Exc =
Emb =

℄ 745.3
726.65
C = ~~2,105~~ 2,089
F = 0
187+ 80

Exc =
Emb =

℄ 742.0
724.11
C = ~~2,113~~ 1,880
F = 0
187+ 30

105

105
20/25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	106	113

Exc =
Emb =

752.9
751.56
192+70
C = ~~229~~ 184
F = ~~0~~ 114

Exc =
Emb =

756.0
749.01
192+20
C = ~~802~~ 507
F = 0

Exc =
Emb =

756.3
746.47
191+70
C = ~~1,084~~ 820
F = 0

Exc =
Emb =

755.2
744.13
191+24
C = ~~1,221~~ 1131
F = 0

Exc =
Emb =

755.0
741.80
190+78
C = ~~1,526~~ 1485
F = 0

Exc =
Emb =

755.5
739.25
℄
190+28
C = ~~1,914~~ 1819
F = 0

Exc =
Emb =

℄
767.11
759.8
195+76
C = 0
F = ~~495~~

Exc =
Emb =

764.52
756.3
195+25
C = 0
F = ~~528~~

Exc =
Emb =

761.93
754.3
194+74
C = 0
F = ~~506~~

Exc =
Emb =

759.38
752.4
194+24
C = 0
F = ~~444~~ 404

Exc =
Emb =

760.0
756.79
193+73
C = ~~531~~ 0
F = 0 375

Exc =
Emb =

754.20
750.8
℄
193+22
C = 0
F = ~~165~~ 245

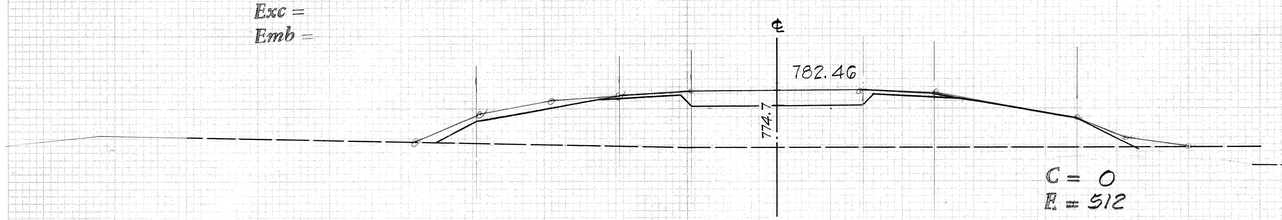
PLATE 3 - CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000N-3

106

106 30/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	107	113

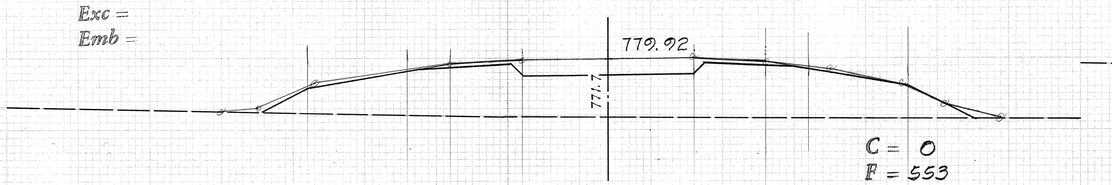
Exc =
Emb =



C = 0
F = 512

198 + 78

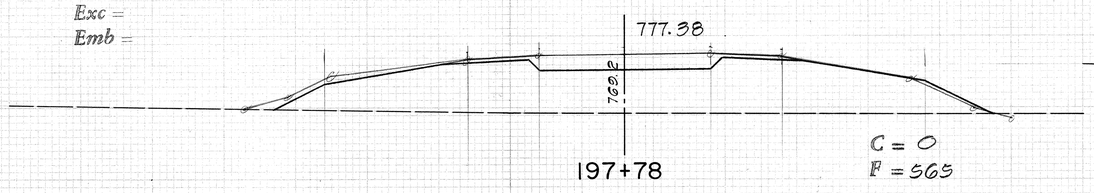
Exc =
Emb =



C = 0
F = 553

198+28

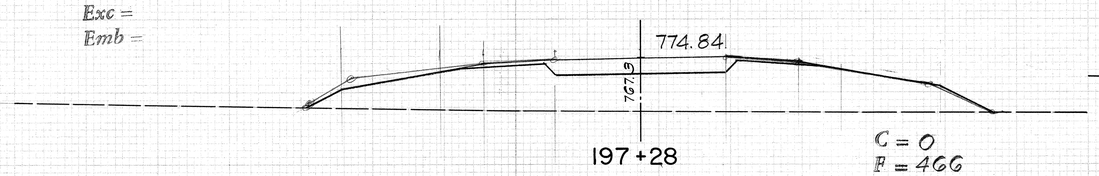
Exc =
Emb =



C = 0
F = 565

197+78

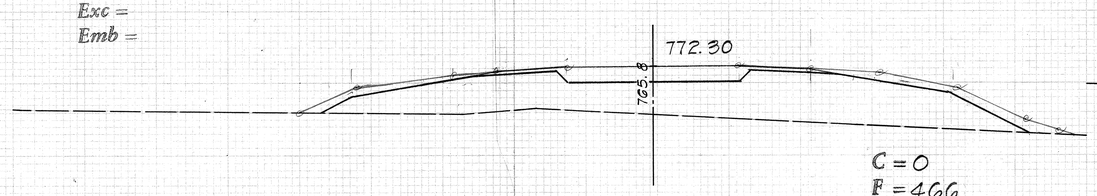
Exc =
Emb =



C = 0
F = 466

197 + 28

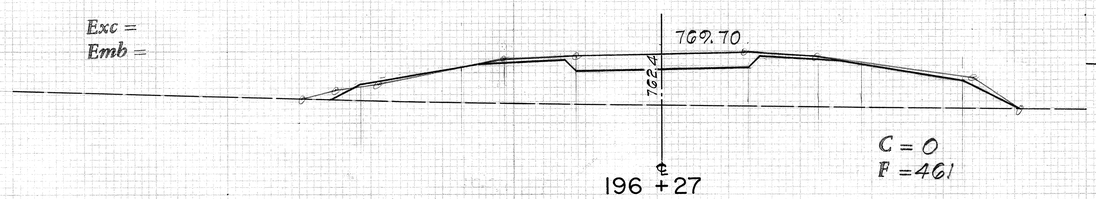
Exc =
Emb =



C = 0
F = 466

196+78

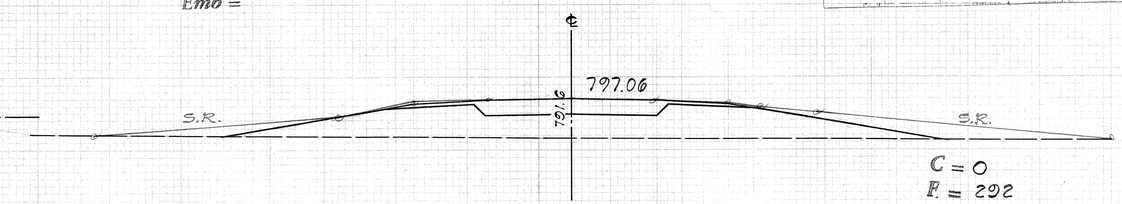
Exc =
Emb =



C = 0
F = 461

196 + 27

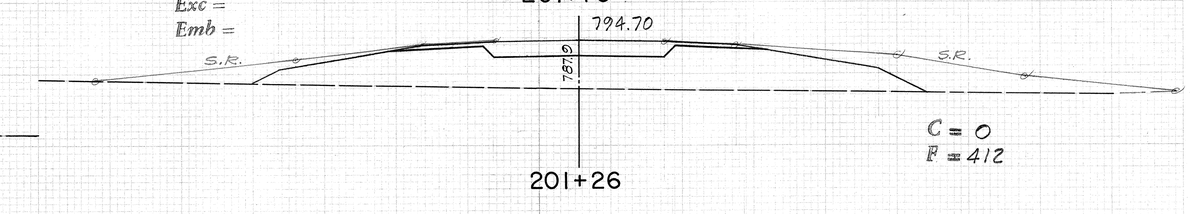
Exc =
Emb =



C = 0
F = 292

201+76

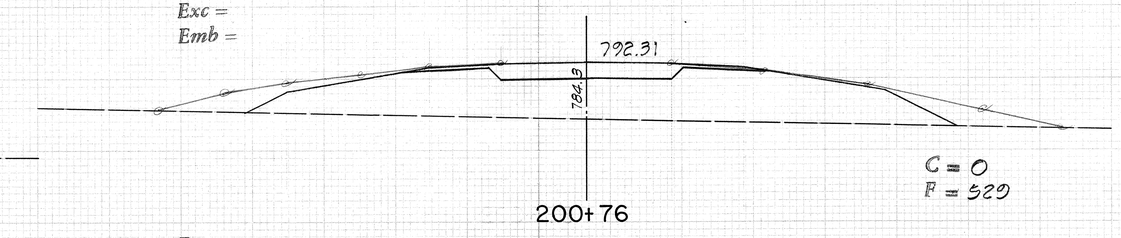
Exc =
Emb =



C = 0
F = 412

201+26

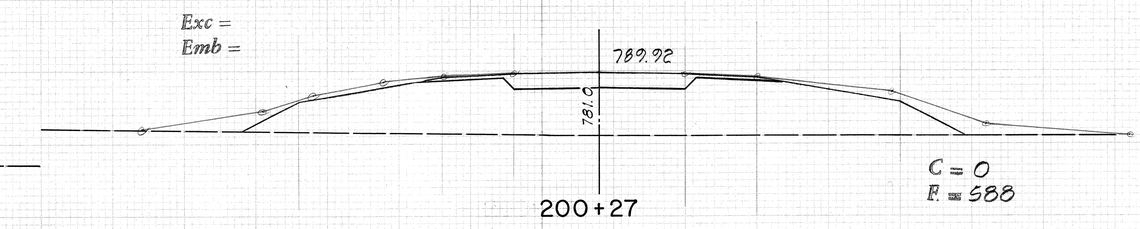
Exc =
Emb =



C = 0
F = 529

200+76

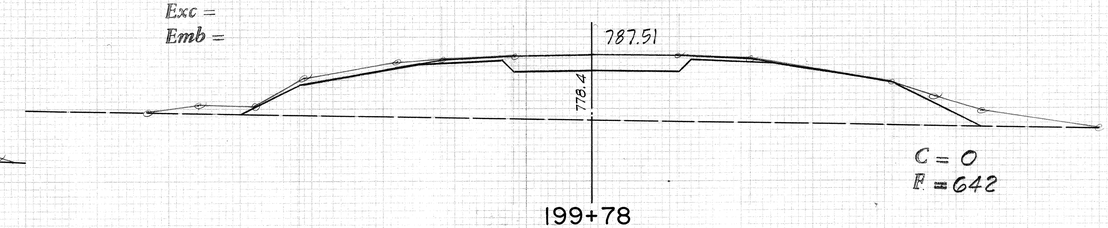
Exc =
Emb =



C = 0
F = 588

200+27

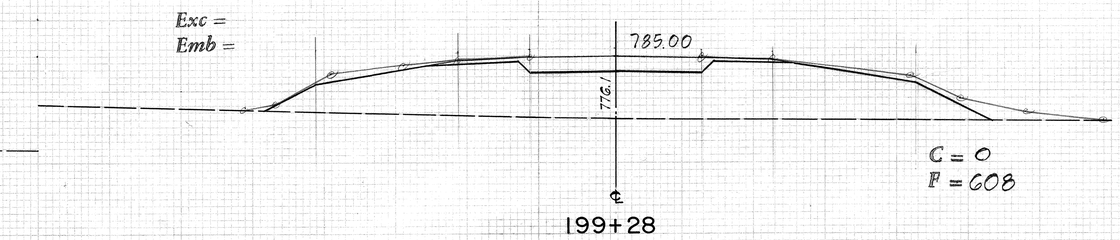
Exc =
Emb =



C = 0
F = 642

199+78

Exc =
Emb =



C = 0
F = 608

199+28

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S. F. CAL. NO. 1000M-3

107

107

31/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	108	118

Exc =
Emb =

812.60

C = 11
F = ~~24~~ 60

205+ 26

Exc =
Emb =

807.9 810.48

C = 0
F = ~~60~~ 133

Exc =
Emb =

204+ 76

806.0 808.34

C = 0
F = ~~38~~ 94

Exc =
Emb =

204+ 26

803.1 806.16

C = 0
F = 83

203+ 76

Exc =
Emb =

801.5 803.94

C = 0
F = 37

Exc =
Emb =

203+ 26

797.8 801.69

C = 0
F = 143

Exc =
Emb =

202+ 76

794.9 799.39

C = 0
F = 185

202+26

Exc =
Emb =

821.0 824.44

C = 3
F = 117

208+ 24

Exc =
Emb =

S.K. 819.0 822.54 S.K.

C = 0
F = 126

207+ 74

Exc =
Emb =

816.5 820.60

C = 4
F = 172

Exc =
Emb =

207+ 24

815.0 818.63

C = 4
F = 146

Exc =
Emb =

206+ 74

813.2 816.67

C = 0
F = 190

Exc =
Emb =

206+ 25

808.5 814.67

C = 2
F = 72

205+ 76

PLATE 3 - CROSS SECTION, F.A.S.
C. SARPRINT PAPER CO., S. F. CAL. NO. 100H 1

108

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	109	113

℄

Exc =
Emb =

836.5 — 837.25

C = 68
F = 1

211+74

Exc =
Emb =

835.2 — 835.42

C = 115
F = 2

211+24

Exc =
Emb =

833.0 — 833.60

C = 101
F = 2

210+74

Exc =
Emb =

831.0 — 831.77

C = 100
F = 1

210+24

Exc =
Emb =

829.0 — 829.95

C = 84
F = 2

209+74

Exc =
Emb =

826.9 — 828.12

C = 75
F = 4

209+24

Exc =
Emb =

823.5 — 826.30

C = 29
F = 78

208+74

℄

Exc =
Emb =

848.5 — 848.42

C = ~~132~~ 117
F = 0

214+80

Exc =
Emb =

846.4 — 846.56

C = ~~114~~ 104
F = ~~0~~ 7

214+29

Exc =
Emb =

844.0 — 844.69

C = 73
F = 0

213+78

Exc =
Emb =

842.1 — 842.83

C = 83
F = 0

213+27

Exc =
Emb =

841.0 — 840.97

C = 136
F = 0

212+76

Exc =
Emb =

838.0 — 839.11

C = 38
F = 4

℄
212+25

FINAL SURVEY — SURVEYED, DRAWN, TRACED, TEMPLATE, AREAS, CHECKED, PROJECT

PLATE 3-CROSS SECTION, F.A.S.
CLEARPRINT PAPER CO., S.F., CAL.
NO. 1000N-3

109

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	110	113

Exc =
Emb =

859.2 — 859.44

C = 91
F = 7

217+82

Exc =
Emb =

857.7 — 857.58

C = ~~104~~ 99
F = 4

217+31

Exc =
Emb =

856.0 — 855.72

C = ~~123~~ 115
F = 2

216+80

Exc =
Emb =

854.1 — 853.90

C = ~~131~~ 125
F = 2

216+30

Exc =
Emb =

852.3 — 852.07

C = ~~123~~ 118
F = 2

215+80

Exc =
Emb =

850.7 — 850.25

C = ~~139~~ 129
F = 0

215+30

Exc =
Emb =

871.2 — 870.39

C = 45
F = 24

220+82

Exc =
Emb =

866.2 — 868.57

C = ~~17~~ 15
F = 35

220+32

Exc =
Emb =

864.2 — 866.74

C = ~~14~~ 9
F = 43

219+82

Exc =
Emb =

864.0 — 864.92

C = ~~50~~ 45
F = 33

219+32

Exc =
Emb =

862.0 — 863.09

C = ~~57~~ 49
F = 29

218+82

Exc =
Emb =

860.3 — 861.27

C = 49
F = 21

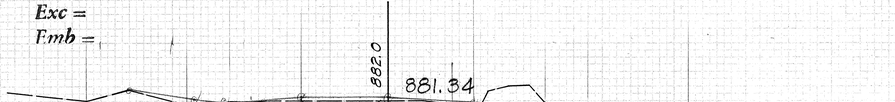
218+32

110

110 34/35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(17)	1972	111	113

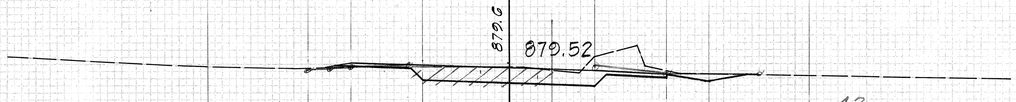
Exc =
Emb =



C = ~~123~~ 46
F = 0

223 + 82

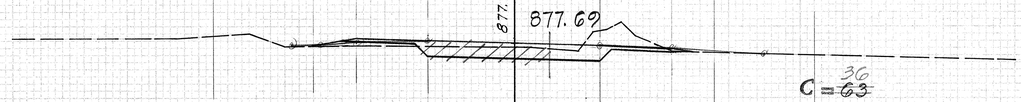
Exc =
Emb =



C = ~~87~~ 42
F = 1

223 + 321

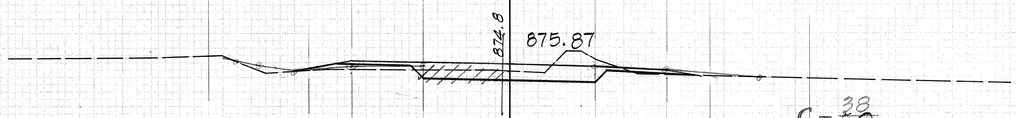
Exc =
Emb =



C = ~~63~~ 36
F = 11

222 + 82

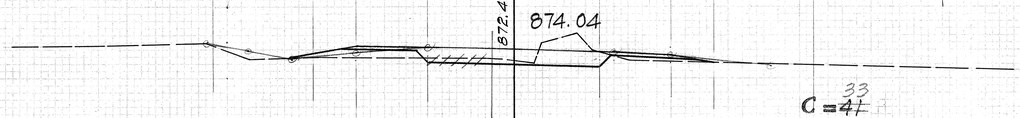
Exc =
Emb =



C = ~~50~~ 38
F = 11

222 + 32

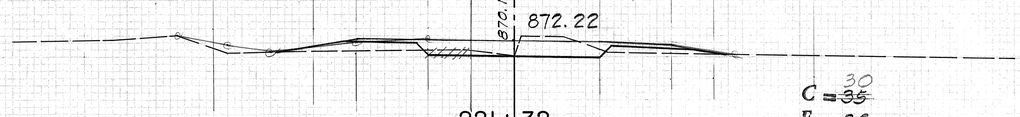
Exc =
Emb =



C = ~~41~~ 33
F = 23

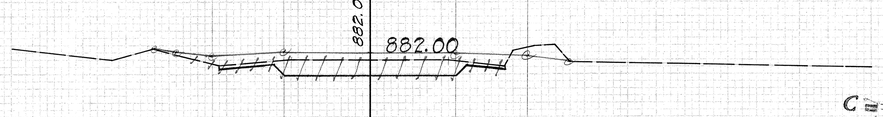
221 + 82

Exc =
Emb =



C = ~~35~~ 30
F = 36

221 + 32



C = ~~62~~ 11
F = 0

224 + 01.75

111

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	112	113

302.4 302.90
Exc =
Emb = 5+64.98 C = 11 F = 12
301.6 300.75
C = 60 F = 0
Exc =
Emb = 5+14.02
298.5 298.61
C = 26 F = 11
Exc =
Emb = 4+63.11
295.2 296.46
Exc =
Emb = 4+12.12 C = 4 F = 40
294.0 294.30
Exc =
Emb = 3+60.93 C = 10 F = 9
292.0 292.09
Exc =
Emb = 3+08.31 C = 14 F = 3
289.0 289.85
Exc =
Emb = 2+55.10 C = 0 F = 65
286.4 287.54
Exc =
Emb = 2+02.16 C = 0 F = 30
284.4 285.08
Exc =
Emb = 1+48.21 C = 7 F = 14
282.0 282.42
Exc =
Emb = 0+93.02 C = 14 F = 3
C = 15 F = 0
0+80.29

320.9 321.18
C = 10 F = 1
Exc =
Emb = 10+78.97
319.6 320.11
C = 1 F = 8
Exc =
Emb = 10+27.97
318.4 318.04
C = 3 F = 7
Exc =
Emb = 9+76.52
316.9 317.50
C = 47 F = 0
Exc =
Emb = 9+25.59
315.4 315.78
C = 6 F = 5
Exc =
Emb = 8+74.65
313.6 313.75
C = 13 F = 5
Exc =
Emb = 8+22.70
311.5 311.56
C = 16 F = 5
Exc =
Emb = 7+70.75
308.8 309.38
C = 4 F = 24
Exc =
Emb = 7+18.80
307.8 307.19
C = 40 F = 0
Exc =
Emb = 6+66.84
305.6 305.04
C = 43 F = 0
Exc =
Emb = 6+15.91

330.4 331.47
C = 0 F = 16
Exc =
Emb = 15+69.27
328.7 330.42
C = 1 F = 4
Exc =
Emb = 15+19.25
327.0 329.37
C = 0 F = 32
Exc =
Emb = 14+69.23
327.5 328.34
C = 0 F = 8
Exc =
Emb = 14+20.20
326.8 327.31
C = 0 F = 15
Exc =
Emb = 13+71.17
325.5 326.26
C = 0 F = 7
Exc =
Emb = 13+21.12
324.0 325.24
C = 0 F = 25
Exc =
Emb = 12+72.07
323.2 324.23
C = 0 F = 18
Exc =
Emb = 12+24.03
322.8 323.22
C = 0 F = 15
Exc =
Emb = 11+76.00
321.6 322.19
C = 1 F = 7
Exc =
Emb = 11+26.98

339.2 342.90
C = 0 F = 127
Exc =
Emb = 20+69.29
336.5 341.55
C = 0 F = 54
Exc =
Emb = 20+19.29
338.1 340.23
C = 0 F = 58
Exc =
Emb = 19+69.29
336.7 338.98
C = 0 F = 64
Exc =
Emb = 19+19.29
335.8 337.81
C = 0 F = 40
Exc =
Emb = 18+69.29
336.0 336.71
C = 1 F = 4
Exc =
Emb = 18+19.29
335.4 335.67
C = 16 F = 0
Exc =
Emb = 17+69.29
332.5 334.62
C = 0 F = 57
Exc =
Emb = 17+19.29
332.6 333.57
C = 0 F = 13
Exc =
Emb = 16+69.29
331.1 332.52
C = 0 F = 29
Exc =
Emb = 16+19.28

355.2 355.05
C = 26 F = 0
Exc =
Emb = 25+19.29
353.3 353.73
C = 7 F = 1
Exc =
Emb = 24+69.29
354.5 352.38
C = 100 F = 0
Exc =
Emb = 24+19.29
349.6 351.03
C = 0 F = 31
Exc =
Emb = 23+69.29
347.9 349.67
C = 0 F = 66
Exc =
Emb = 23+19.29
345.2 348.32
C = 0 F = 98
Exc =
Emb = 22+69.29
345.2 346.96
C = 0 F = 120
Exc =
Emb = 22+19.29
343.8 345.61
C = 0 F = 132
Exc =
Emb = 21+69.29
340.4 344.26
C = 0 F = 134
Exc =
Emb = 21+19.29

DETOUR ROAD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-037-1(7)	1972	113	113

	362.11		
359.1			
Exc =	30+19.51	C = 0	
Emb =		F = 104	
364.8	361.52		
		C = 155	
Exc =	29+69.34	F = 0	
Emb =			
362.5	360.92		
		C = 77	
Exc =	29+19.30	F = 0	
Emb =			
359.8	360.32		
		C = 0	
Exc =	28+69.29	F = 5	
Emb =			
360.0	359.73		
		C = 26	
Exc =	28+19.29	F = 0	
Emb =			
359.2	359.13		
		C = 21	
Exc =	27+69.19	F = 0	
Emb =			
358.5	358.54		
		C = 17	
Exc =	27+19.29	F = 0	
Emb =			
358.0	357.93		
		C = 23	
Exc =	26+69.29	F = 0	
Emb =			
356.9	357.16		
		C = 4	
Exc =	26+19.29	F = 0	
Emb =			
356.0	356.20		
		C = 8	
	25+69.29	F = 0	
Exc =			
Emb =			

	400.87		
401.0			
Exc =	39+50.70	C = 25	
Emb =		F = 6	
397.9	397.81		
		C = 28	
Exc =	38+99.75	F = 7	
Emb =		C = 0	
	38+53.50	F = 0	
Exc =	34+64.70	C = 0	
Emb =		F = 0	
370.0	370.13		
		C = 15	
Exc =	34+35.15	F = 1	
Emb =			
366.0	367.65		
		C = 23	
	33+80.89	F = 2	
Exc =			
Emb =			
366.0	366.11		
		C = 10	
	33+27.52	F = 9	
Exc =			
Emb =			
365.0	365.15		
		C = 18	
Exc =	32+74.90	F = 11	
Emb =			
364.0	364.54		
		C = 24	
Exc =	32+22.93	F = 30	
Emb =			
363.6	363.92		
		C = 15	
Exc =	31+71.49	F = 11	
Emb =			
363.4	363.32		
		C = 23	
Exc =	31+20.50	F = 6	
Emb =			
362.8	362.71		
		C = 18	
Exc =	30+69.87	F = 4	
Emb =			

	422.73		
423.0			
		C = 129	
Exc =	44+61.78	F = 0	
Emb =			
426.0	421.04		
		C = 215	
		F = 0	
Exc =			
Emb =	44+10.68		
420.0	419.35		
		C = 45	
Exc =	43+59.46	F = 0	
Emb =			
420.0	417.65		
		C = 115	
Exc =		F = 0	
Emb =	43+08.13		
	415.95		
410.5			
Exc =		C = 0	
Emb =	42+56.67	F = 232	
414.0	414.18		
		C = 10	
Exc =		F = 3	
Emb =	42+05.08		
414.0	412.08		
		C = 95	
Exc =		F = 0	
Emb =	41+53.35		
411.0	409.61		
		C = 74	
Exc =		F = 0	
Emb =	41+01.47		
408.0	406.90		
		C = 63	
Exc =	40+51.56	F = 0	
Emb =			
405.0	403.92		
		C = 55	
Exc =	40+01.65	F = 0	
Emb =			

	439.67		
435.5			
Exc =	49+67.85	C = 0	
Emb =		F = 146	
434.0	437.81		
		C = 0	
Exc =	49+17.56	F = 136	
Emb =			
432.5	436.15		
		C = 0	
Exc =	48+67.22	F = 127	
Emb =			
432.0	434.48		
		C = 0	
	48+16.82	F = 77	
Exc =			
Emb =			
430.0	432.81		
		C = 0	
	47+66.34	F = 92	
Exc =			
Emb =			
429.5	431.14		
		C = 0	
Exc =	47+15.80	F = 42	
Emb =			
428.0	429.46		
		C = 0	
Exc =	46+65.17	F = 36	
Emb =			
427.5	427.78		
		C = 11	
	46+14.47	F = 1	
Exc =			
Emb =			
427.0	426.10		
		C = 50	
Exc =	45+63.67	F = 0	
Emb =			
426.0	424.42		
		C = 78	
Exc =	45+12.78	F = 0	
Emb =			

	54+68.73		
	54+18.72		
	53+68.72		
	53+18.70		
449.4	449.43		
Exc =	52+68.67	C = 0	
Emb =		F = 0	
447.7	447.77		
	52+18.61	C = 0	
Exc =		F = 2	
Emb =			
446.0	446.11		
		C = 0	
Exc =	51+68.53	F = 5	
Emb =			
444.2	444.46		
		C = 0	
Exc =		F = 9	
Emb =	51+18.42		
442.4	442.80		
		C = 0	
Exc =		F = 18	
Emb =	50+68.27		
440.5	441.14		
		C = 0	
Exc =	50+18.09	F = 44	
Emb =			

DETOUR ROAD