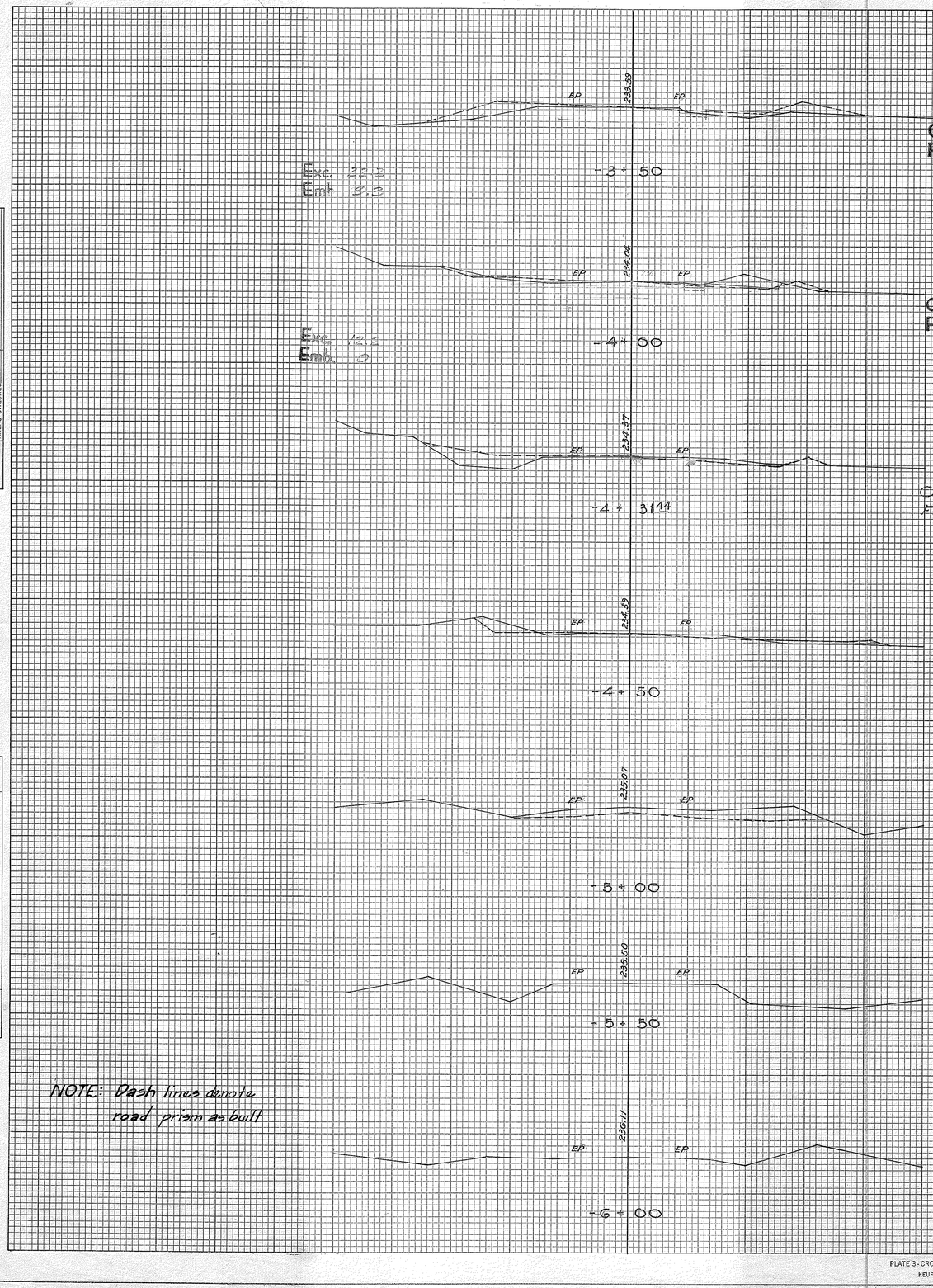
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	F 2(3)	1049	26	42

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE — 3/18 — 2.2 — 2/23/54

Marked by R.E. Hinkes
Plotted by T. Tsuda (Lihue Yard)



NOTE: Dash lines denote road prism as built

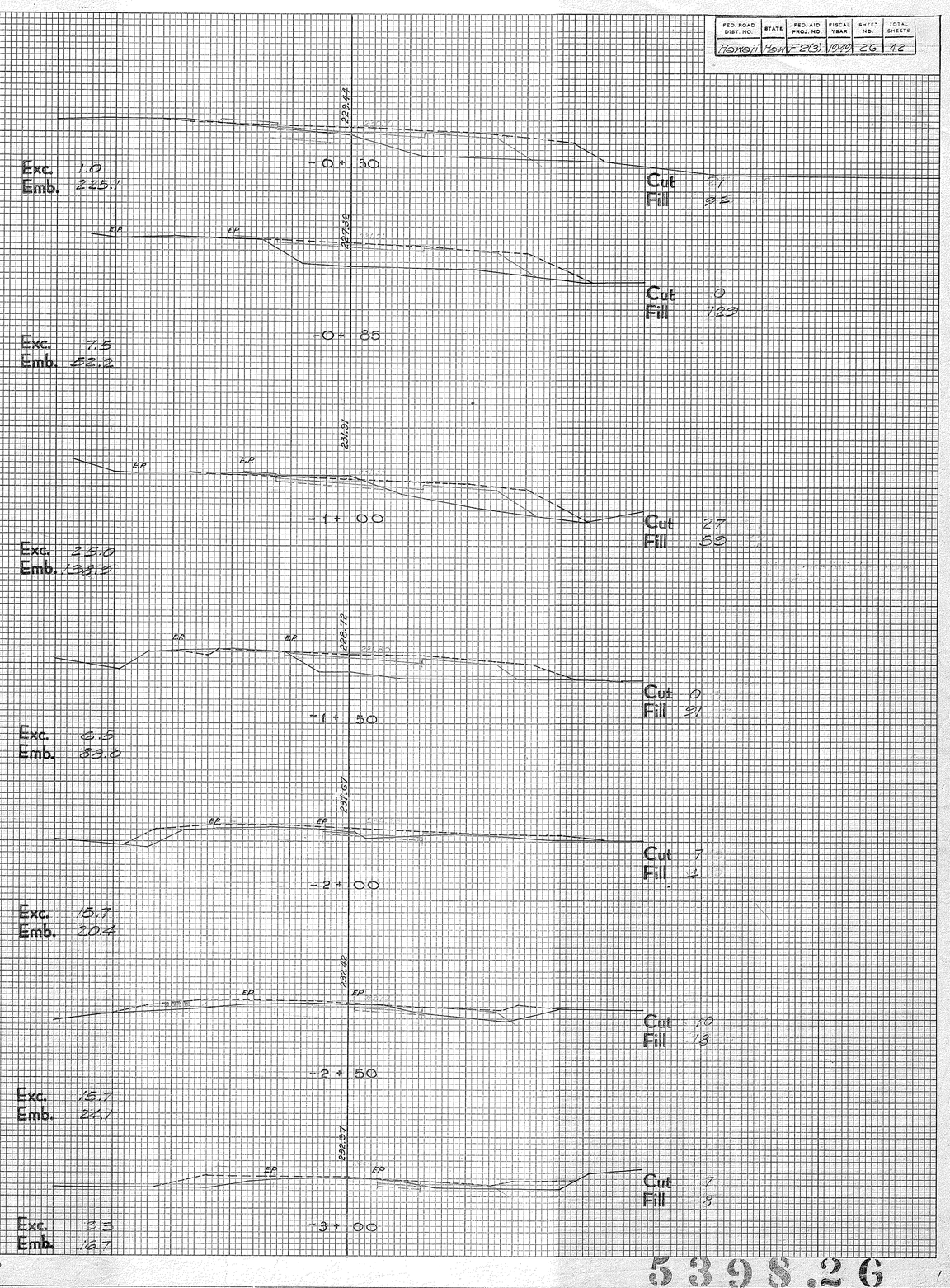


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD

KEUFFEL & ESSER CO., NEW YORK.

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

5398.26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HOWS11	VERM	F-2(3)	1941	27	42

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

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE	T. H.	3/1/43
NOTE BOOK		
NO.		
AREAS CHECKED		

Exc = 28.5
Exc. 350.7
Emb. 0
1258 + 50
Cut 109
Fill 0

Exc = 38.5
Exc. 306.9
Emb. 0
1258 + 31
Cut 531
Fill 0

Exc = 73.9
Exc. 241.2
Emb. 0
1258 + 00
Cut 352
Fill 0

Exc. 115.4
Emb. 6.5
1257 + 75
Cut 168
Fill 0

Exc. 90.7
Emb. 32.4
1257 + 50
Cut 76
Fill 14

Exc. 77.3
Emb. 17.1
1257 + 00
Cut 22
Fill 21

Exc. 101.4
Emb. 14.4
1256 + 75
Cut 145
Fill 16

Exc. 57.3
Emb. 9.1
1256 + 50
Cut 74
Fill 15

Exc. 33.0
Emb. 114.0
1256 + 36
Cut 147
Fill 20

Exc. 0.6
Emb. 135.0
1256 + 00
Cut 0
Fill 125

Exc = 1.0
Exc. 185.4
Emb. 0
1260 + 60
Cut 372
Fill 0

1260 + 43
Cut 217
Fill 0

Exc = 2.3
Exc. 223.5
Emb. 0
1260 + 22
Cut 357
Fill 0

Exc = 33
Exc. 231.6
Emb. 20.0
1260 + 00
Cut 212
Fill 42

Exc = 63
Exc. 120.0
Emb. 10.5
1259 + 82
Cut 143
Fill 0

Exc = 30.6
Exc. 273.0
Emb. 0
1259 + 60
Cut 522
Fill 0

Exc = 64.8
Exc. 750.6
Emb. 0
1259 + 25
Cut 636
Fill 0

Exc = 48.1
Exc. 606.5
Emb. 0
1259 + 00
Cut 674
Fill 0

Exc = 37.0
Exc. 650.9
Emb. 0
1258 + 75
Cut 732
Fill 0

Exc = 33.8
Exc. 523.5
Emb 0

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

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

5398.27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HOWS11	HDM	F-2(3)	1948	28	42

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

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

12G2 +90 — 218.54
Exc. 1.4
Emb. 131.7
Cut 2
Fill 52

12G2 +65 — 212.51
Exc. 0
Emb. 189.4
Cut 0
Fill 356

12G2 +50 — 214.37
Exc. 0
Emb. 313.5
Cut 0
Fill 328

12G2 +20 — 215.01
Exc. 0
Emb. 256.7
Cut 0
Fill 347

12G2 +00 — 215.56
Exc. 7.8
Emb. 238.6
Cut 0
Fill 346

12G1 +75 — 224.28
Exc. = 6.5
Exc. 200.0
Emb. 190.3
Cut 168
Fill 232

12G1 +50 — 229.96
Exc. = 17.9
Exc. 403.1
Emb. 72.6
Cut 284
Fill 112

12G1 +15 — 231.45
Exc. = 4.7
Exc. 143.9
Emb. 0
Cut 358
Fill 0

12G1 +00 — 228.67
Exc. = 3.0
Exc. 59.4
Emb. 0
Cut 160
Fill 0

12G6 +50 — 217.65
Exc. 472.2
Emb. 0
Cut 242
Fill 0

12G6 +00 — 220.45
Exc. 374.1
Emb. 0
Cut 266
Fill 0

12G5 +50 — 217.58
Exc. 167.6
Emb. 8.3
Cut 133
Fill 0

12G5 +00 — 217.42
Exc. 121.9
Emb. 11.7
Cut 43
Fill 9

12G4 +65 — 220.39
Exc. 34.0
Emb. 150.4
Cut 145
Fill 9

12G4 +30 — 215.03
Exc. 0
Emb. 237.8
Cut 0
Fill 223

12G4 +00 — 216.09
Exc. 0
Emb. 253.8
Cut 0
Fill 205

12G3 +75 — 212.38
Exc. 10
Emb. 251.0
Cut 0
Fill 300

12G3 +50 — 215.14
Exc. 0
Emb. 513.2
Cut 0
Fill 199

12G3 +15 — 210.89
Exc. 1.4
Emb. 305.6
Cut 0
Fill 602

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

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

5398.28

3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HENDERSON	F 2(3)	1949	29	42

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE — 3/18 — 11/24/48

1269+50
Exc. = 84.3
Exc. 973.1
Emb. 0
Cut 523
Fill 0

1269+00
Exc. = 38.9
Exc. 271.2
Emb. 0
Cut 458
Fill 0

1268+65
Exc. = 11.6
Exc. 136.2
Emb. 6.5
Cut 269
Fill 0

1268+46
Exc. = 3.6
Exc. 100.7
Emb. 5.3
Cut 113
Fill 13

1268+30
Exc. = 2.8
Exc. 180.0
Emb. 4.4
Cut 222
Fill 0

1268+00
Exc. 3.1
Emb. 2.3
Cut 102
Fill 0

1267+95
Exc. = 17.2
Emb. 55.0
Cut 123
Fill 14
Cut 44
Fill 76

1267+60
Exc. 210.0
Emb. 19.3

1267+25
Exc. 268.5
Emb. 0
Cut 230
Fill 0

1267+00
Exc. 503.7
Emb. 0
Cut 300
Fill 0

1272+25
Exc. = 76.9
Exc. 620.8
Emb. 0
Cut 797
Fill 0

1272+00
Exc. = 124.1
Exc. 1,203.7
Emb. 0
Cut 634
Fill 0

1271+50
Exc. = 76.7
Exc. 547.8
Emb. 0
Cut 666
Fill 0

1271+20
Exc. = 70.0
Exc. 568.1
Emb. 0
Cut 360
Fill 0

1271+00
Exc. = 104.4
Exc. 770.6
Emb. 0
Cut 674
Fill 0

1270+65
Exc. = 39.4
Exc. 422.7
Emb. 0
Cut 515
Fill 0

1270+46
Exc. = 130.3
Exc. 1,143.2
Emb. 0
Cut 692
Fill 0

1270+00
Exc. = 84.7
Exc. 522.2
Emb. 0
Cut 550
Fill 0

1269+75
Exc. = 66.2
Exc. 435.5
Emb. 0
Cut 473
Fill 0

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

5398.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	HDW	F2(3)	1040	30	42

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

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED 2-2 — PLOTTED 3-1-8 — AREAS — AREAS CHECKED 11-24-39 — BY — DATE

Exc. 388.1 Emb. 0 — 1274+50 — Cut 519 Fill 0

Exc. 383.1 Emb. 0 — 1274+24 — Cut 296 Fill 0

EXC = 13.3 Exc. 412.4 Emb. 0 — 1274+00 — Cut 566 Fill 0

Exc = 26.2 Exc. 287.3 Emb. 0 — 1273+829G — Cut 72 Fill 0

Exc = 42.6 Exc. 484.7 Emb. 0 — 1273+63 — Cut 572 Fill 0

Exc = 37.4 Exc. 451.5 Emb. 0 — 1273+40 — Cut 459 Fill 0

Exc = 25.9 Exc. 557.8 Emb. 0 — 1273+20 — Cut 660 Fill 0

Exc = 39.5 Exc. 902.4 Emb. 0 — 1273+00 — Cut 792 Fill 0

Exc = 33.0 Exc. 571.3 Emb. 0 — 1272+65 — Cut 611 Fill 0

Exc = 57.8 Exc. 607.4 Emb. 0 — 1272+45 — Cut 788 Fill 0

Exc. 441.1 Emb. 505.5 — 1277+60 — Cut 0 Fill 253

Exc. 379.9 Emb. 0 — 1277+00 — Cut 397 Fill 0

Exc. 462.2 Emb. 0 — 1276+74 — Cut 392 Fill 0

Exc. 623.5 Emb. 0.8 — 1276+44.04 — Cut 441 Fill 0

Exc. 259.1 Emb. 0.3 — 1276+00 — Cut 324 Fill 0

Exc. 556.7 Emb. 0 — 1275+83 — Cut 496 Fill 0

Exc. 397.0 Emb. 0 — 1275+50 — Cut 445 Fill 0

Exc. 454.5 Emb. 0 — 1275+27 — Cut 517 Fill 0

Exc. 317.8 Emb. 0 — 1275+00 — Cut 532 Fill 0

Exc. 542.2 Emb. 0 — 1274+80 — Cut 456 Fill 0

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

5398.30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HLDMS11	HLDM	F2(3)	1048	31	42

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK TEMPLATE	J.B.	3/18
AREAS		
NO. AREAS CHECKED		

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

Scale 1" = 10' Winter
T.A. 11/15/48 3179

1279 + 00
Exc. 2.4
Emb. 48.3
Cut 1
Fill 73

1278 + 81.25 END OF BRIDGE
Cut 33
Fill 86

~~1278 + 40~~
~~Exc.~~
~~Emb.~~

~~1278 + 30~~
~~Cut~~
~~Fill~~

~~1278 + 00~~
~~Exc.~~
~~Emb.~~

127.7 + 72.75 BEG. OF BRIDGE
Cut 0
Fill 294
Exc. 0
Emb. 176.4

1284 + 00
Exc. 0
Emb. 484.4
Cut 0
Fill 308

1283 + 50
Exc. 14.3
Emb. 253.7
Cut 0
Fill 226

1283 + 00
Exc. 14.4
Emb. 56.1
Exc. 6.9
Emb. 45.4
Cut 16
Fill 48
Cut 15
Fill 30

1282 + 75 SIDE ROAD
Cut 0
Fill 68

1282 + 50
Exc. 0
Emb. 263.4

1282 + 00
Exc. 0
Emb. 525.0
Cut 0
Fill 223

1281 + 50
Exc. 0
Emb. 611.1
Cut 0
Fill 344

1281 + 00
Exc. 0
Emb. 573.9
Cut 0
Fill 316

1280 + 50
Exc. 0
Emb. 525.9
Cut 0
Fill 306

1280 + 00
Exc. 0
Emb. 473.0
Cut 0
Fill 262

1279 + 50
Exc. 0.3
Emb. 238.0
Cut 0
Fill 184

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

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

5398.31

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	F2(3)	1941	32	42

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

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

1289 + 00 — Exc. 175.0, Emb. 0.5 — Cut 21, Fill 1 — 165.64

1288 + 50 — Exc. 438.0, Emb. 0 — Cut 08, Fill 0 — 166.45

1288 + 00 — Exc. 513.5, Emb. 0 — Cut 3.75, Fill 0 — 172.65

1287 + 50 — Exc. 243.1, Emb. 13.9 — Cut 13.5, Fill 0 — 170.26

1287 + 00 — Exc. 142.6, Emb. 29.6 — Cut 8.3, Fill 1.5 — 163.02

1286 + 50 — Exc. 112.0, Emb. 3.70 — Cut 7.1, Fill 1.7 — 163.60

1286 + 00 — Exc. 46.3, Emb. 72.2 — Cut 5.0, Fill 2.3 — 163.56

1285 + 50 — Exc. 0, Emb. 137.0 — Cut 0, Fill 5.5 — 163.49

1285 + 00 — Exc. 0, Emb. 268.5 — Cut 0, Fill 0.3 — 163.71

1284 + 50 — Exc. 0, Emb. 467.6 — Cut 0, Fill 1.07 — 165.65

1294 + 00 — Exc. 240.7, Emb. — Cut 1.00, Fill 0 — 159.81

1293 + 50 — Exc. 491.7, Emb. 0 — Cut 1.60, Fill 0 — 160.31

1293 + 00 — Exc. 702.3, Emb. 0 — Cut 3.21, Fill 0 — 164.35

1292 + 50 — Exc. 682.4, Emb. 0 — Cut 5.88, Fill 0 — 165.70

1292 + 00 — Exc. 628.7, Emb. 0 — Cut 13.49, Fill 0 — 165.97

1291 + 50 — Exc. 450.3, Emb. 0 — Cut 3.50, Fill 0 — 166.29

1291 + 00 — Exc. 262.0, Emb. 0 — Cut 1.57, Fill 0 — 164.38

1290 + 50 — Exc. 225.0, Emb. 0 — Cut 1.26, Fill 0 — 164.62

1290 + 00 — Exc. 212.0, Emb. 0 — Cut 1.17, Fill 0 — 164.75

1289 + 50 — Exc. 188.0, Emb. 0.9 — Cut 1.12, Fill 0 — 165.45

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

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

539 S.32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	F 2(3)	1949	33	42

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

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

Exc. 165.6
Emb. 100.3
1297 +50
Cut 0
Fill 1.2

Exc. 293.5
Emb. 0
1297 +00
Cut 11.4
Fill 0

1296 +50
Cut 2.8
Fill 0

Exc. 116.7
Emb. 0

Exc. 73.5
Emb. 4.2
1296 +28.34
Ø Palai St
Cut 2.8
Fill 0

Exc. 61.1
Emb. 169.4
1296 +00
Cut 1.2
Fill 0

Exc. 13.0
Emb. 452.8
1295 +50
Cut 1.4
Fill 17.5

Exc. 0.8
Emb. 260.6
1295 +00
Cut 0
Fill 31.2

Exc. 0.8
Emb. 121.5
1294 +76
Cut 2
Fill 2.7

Exc. 0
Emb. 28.1
1294 +54
Cut 0
Fill 0.5

Exc. 32.6
Emb. 166.7
1294 +50
Cut 3
Fill 1.80

Exc. 70.8
Emb. 23.1
1301 +66.28
Cut 14.2
Fill 0

Exc. 7.0
Emb. 130.7
1301 +42
Cut 3
Fill 5.0

Exc. 0
Emb. 363.3
1301 +00
Cut 0
Fill 11.5

Exc. 0
Emb. 435.2
1300 +50
Cut 0
Fill 27.5

Exc. 0
Emb. 1,046.8
1300 +00
Cut 0
Fill 13.5

Exc. 0
Emb. 1,279.6
1299 +05
Cut 0
Fill 40.0

Exc. 0
Emb. 184.1
1298 +55
Cut 0
Fill 38.2

Exc. 0
Emb. 187.6
1298 +50
Cut 0
Fill 100.6

Exc. 0
Emb. 1,449.1
1298 +15
Cut 0
Fill 102.0

Exc. 0
Emb. 552.5
1297 +95
Cut 0
Fill 5.45

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

5398.33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii		HGM F2(3)	1940	34	42

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

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

Exc. 1271.3 Emb. 0 — 1306+00 — 146.97 — Cut 925 Fill 0

Exc. 1354.6 Emb. 0 — 1305+50 — 145.36 — Cut 772 Fill 0

Exc. 1332.4 Emb. 0 — 1305+00 — 145.43 — Cut 691 Fill 0

Exc. 1272.2 Emb. 0 — 1304+50 — 146.04 — Cut 748 Fill 0

Exc. 1045.0 Emb. 0 — 1304+00 — 147.43 — Cut 626 Fill 0

Exc. 309.2 Emb. 0 — 1303+45 — 145.38 — Cut 200 Fill 0

Exc. 252.6 Emb. 0 — 1303+22 — 143.66 — Cut 326 Fill 0

Exc. 563.0 Emb. 0 — 1303+00 — 144.88 — Cut 234 Fill 0

Exc. 432.8 Emb. 0 — 1302+50 — 143.92 — Cut 314 Fill 0

Exc. 215.5 Emb. 0 — 1302+00 — 145.12 — Cut 215 Fill 0

Exc. 655.4 Emb. 0 — 1308+50 — 136.83 — Cut 757 Fill 0

Exc. 169.5 Emb. 0 — 1308+16 — 132.39 — Cut 285 Fill 0

Exc. 121.6 Emb. 0 — 1308+00 — 134.26 — Cut 287 Fill 0

Exc. 358.2 Emb. 0 — 1307+88 — 132.64 — Cut 260 Fill 0

Exc. 210.2 Emb. 0 — 1307+50 — 133.83 — Cut 250 Fill 0

Exc. 221.6 Emb. 0 — 1307+25 — 133.97 — Cut 204 Fill 0

Exc. 273.1 Emb. 0 — 1307+00 — 136.09 — Cut 275 Fill 0

Exc. 356.0 Emb. 0 — 1306+75 — 137.70 — Cut 315 Fill 0

Exc. 545.5 Emb. 0 — 1306+50 — 140.46 — Cut 454 Fill 0

Exc. 358.5 Emb. 0 — 1306+26 — 144.30 — Cut 885 Fill 0

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

KEUFFEL & ESSER CO., NEW YORK.

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

5398.34

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii Haw		F 2(3)	1940	35	42

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

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE — F. Yamashita — E. Nakamura — 1-41

Sheet R.C. 9/1/41

1311 + 40 — 285.67
Exc. 200.0
Emb. 243.0
Cut 245
Fill 30

1311 + 00 — 282.11
Exc. 21.3
Emb. 494.4
Cut 213
Fill 283

1310 + 50 — 278.28
Exc. 0.5
Emb. 203.2
Cut 1
Fill 245

1310 + 25 — 276.51
Exc. 5.4
Emb. 68.6
Cut 0
Fill 134

1310 + 08 — 274.96
Exc. 18.1
Emb. 5.9
Cut 17
Fill 24

1310 + 00 — 273.17
Exc. 92.7
Emb. 4.7
Cut 105
Fill 16

1309 + 84 — 269.31
Exc. 215.1
Emb. 0
Cut 205
Fill 0

1309 + 62 — 267.42
Exc. 151.9
Emb. 0
Cut 320
Fill 0

1309 + 48 — 265.66
Exc. 440.0
Emb. 0
Cut 226
Fill 0

1309 + 00 — 263.93
Exc. 813.0
Emb. 0
Cut 229
Fill 0

1314 + 76 — 115.60
Exc. 35.6
Emb. 0
Cut 127
Fill 0

℄ Kawailani St.
1314 + 68.34 — 115.22
Exc. 74.0
Emb. 28.9
Cut 123
Fill 0

1314 + 50 — 115.30
Exc. 55.6
Emb 113.4
Cut 95
Fill 85

1314 + 25 — 114.25
Exc. 32.4
Emb 116.2
Cut 25
Fill 160

1314 + 00 — 115.60
Exc. 75.3
Emb. 103.1
Cut 45
Fill 51

1313 + 50 — 116.37
Exc. 58.3
Emb. 50.0
Cut 57
Fill 21

1313 + 00 — 116.86
Exc. 65.7
Emb. 43.5
Cut 26
Fill 33

1312 + 50 — 118.47
Exc. 163.9
Emb. 13.0
Cut 45
Fill 14

1312 + 00 — 121.37
Exc. 205.6
Emb. 0.6
Cut 132
Fill 0

1311 + 70 — 125.91
Exc. 270.0
Emb. 22.2
Cut 238
Fill 1

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

5395.35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HONGII(VHDM)F2(3)	1010	36	42		

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

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

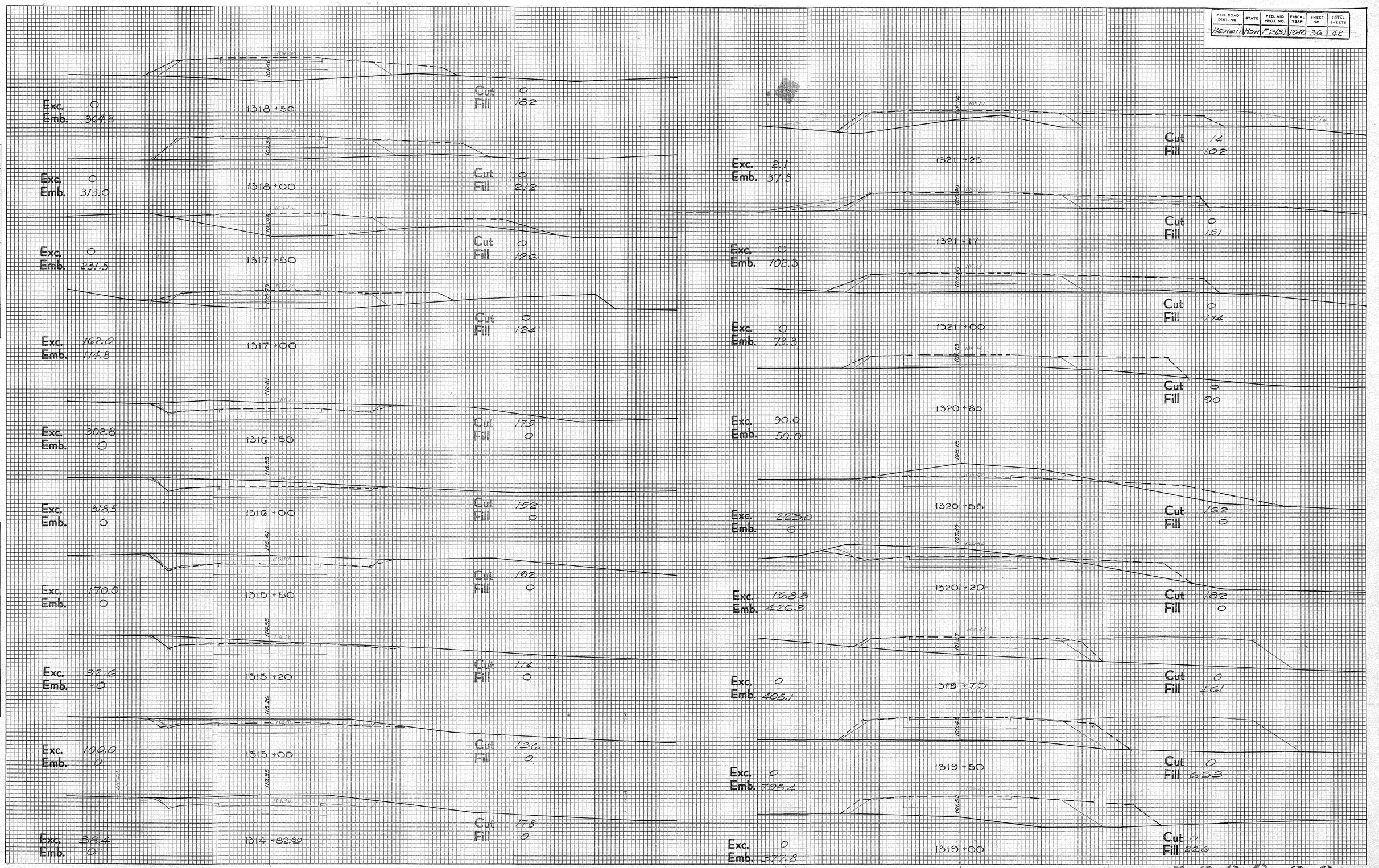


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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

539S.36

11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	HAW	F 2(3)	1964	37	42

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE — TS 4/24/64

1325+00 — 92.76 — Exc. 0, Emb. 2,823.1 — Cut 0, Fill 1,655

1324+50 — 93.09 — Exc. 0, Emb. 2,001.9 — Cut 0, Fill 1,590

1324+00 — 94.79 — Exc. 0, Emb. 1,242.6 — Cut 0, Fill 772

1323+50 — 93.09 — Exc. 0, Emb. 428.0 — Cut 0, Fill 570

1323+23 — 100.29 — Exc. 0, Emb. 204.9 — Cut 0, Fill 286

1323+00 — 102.72 — Exc. —, Emb. — — Cut 0, Fill 105

1322+75 — 99.67 — Exc. 0, Emb. 575.9 — Cut 0, Fill 97

1322+50 — 101.74 — Exc. 0, Emb. 329.6 — Cut 0, Fill 211

1322+00 — 100.45 — Exc. 5.6, Emb. 203.7 — Cut 0, Fill 145

1321+50 — Exc. 9.3, Emb. 81.9 — Cut 6, Fill 75

1328+00 — 113.51 — Exc. 681.5, Emb. 0 — Cut 297, Fill 0

1327+50 — 115.73 — Exc. 788.0, Emb. 0 — Cut 139, Fill 0

1327+00 — 114.90 — Exc. 311.1, Emb. 0 — Cut 112, Fill 0

1326+75 — 111.26 — Exc. 209.3, Emb. 0 — Cut 260, Fill 0

1326+50 — 110.23 — Exc. 250.9, Emb. 52.8 — Cut 192, Fill 0

1326+00 — 106.67 — Exc. 42.6, Emb. 68.5 — Cut 70, Fill 57

1325+80 — 105.89 — Exc. 20.0, Emb. 338.9 — Cut 36, Fill 128

1325+50 — 99.75 — Exc. 0, Emb. 1,036.7 — Cut 0, Fill 482

1325+20 — 92.56 — Exc. 0, Emb. 1,127.0 — Cut 0, Fill 1,584

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

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

5398.37

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 2(3)	1029	38	42

ORIGINAL SURVEY	BY	DATE
SURVEYED	T.K.	
PLOTTED		
TEMPLATE	KAIOI JR.	
FINAL		
NOTE BOOK		
NO.		
AREAS CHECKED		

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

checked by K.L. 9/6/57

Exc. 61.8
Emb. 35.8

1332 + 96

Cut 5.8
Fill 1.9

Exc. 114.8
Emb. 22.2

1332 + 50

Cut 5.4
Fill 2.3

Exc. 214.8
Emb. 0.9

1332 + 00

Cut 9.0
Fill 1

Exc. 379.6
Emb. 0

1331 + 50

Cut 11.8
Fill 0

Exc. 488.9
Emb. 0

1331 + 00

Cut 2.68
Fill 0

Exc. 449.1
Emb. 0

1330 + 50

Cut 260
Fill 0

Exc. 371.3
Emb. 0

1330 + 00

Cut 225
Fill 0

Exc. 324.1
Emb. 0

1329 + 50

Cut 17.6
Fill 0

Exc. 392.6
Emb. 0

1329 + 00

Cut 17.2
Fill 0

Exc. 506.5
Emb. 0

1328 + 50

Cut 25.0
Fill 0

Exc. 0
Emb. 131.7

D.C.=16
D.Exc=17.2

1335 + 00

Cut 0
Fill 110

Exc. 0
Emb. 213.3

D.C.=15
D.Exc=14.4

1334 + 70

Cut 0
Fill 127

Exc. 1.5
Emb. 310.4

D.C.=11
D.Exc=25.0

1334 + 40

Cut 0
Fill 257

Exc. 0.9
Emb. 133.8

D.C.=20
D.Exc=18.1

1334 + 00

Cut 2
Fill 162

Exc. 1.4
Emb. 78.2

D.C.=19
D.Exc=15.7

1333 + 75

Cut 0
Fill 127

Exc. 28.7
Emb. 33.3

D.C.=15

1333 + 50

Cut 3
Fill 42

Exc. 12.3
Emb. 1.9

1333 + 19

Cut 47
Fill 16

Exc. 19.4
Emb. 0.9

1333 + 14

Cut 58
Fill 5

Exc. 27.3
Emb. 2.0

1333 + 08.34
℄ KAHAOPEA ST.

Cut 30
Fill 4

Exc. 8.3
Emb. 2.1

1333 + 00

Cut 22
Fill 3

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

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

5395.38 Sht 13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-2(3)1040		39	42

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE — P.E. 3118 — 1/27/43

Checked by L.L. 11-2-43

Exc. 146.3 Emb. 201.9	103.23	1339+50	Cut 158 Fill 0	Exc. 163.0 Emb. 5.6	95.23	Cut 68 Fill 6
Exc. 0 Emb. 413.9	96.44	1339+00	Cut 0 Fill 218	Exc. 206.8 Emb. 0	96.49	Cut 108 Fill 0
Exc. 32.4 Emb. 236.1	97.07	1338+50	Cut 0 Fill 229	Exc. 239.8 Emb. 0	97.75	Cut 115 Fill 0
Exc. 45.4 Emb. 53.7	101.26	1338+00	Cut 35 Fill 26	Exc. 244.4 Emb. 0	98.05	Cut 144 Fill 0
Exc. 13.0 Emb. 110.2	101.74	1337+50	Cut 14 Fill 32	Exc. 229.6 Emb. 0	99.49	Cut 120 Fill 0
Exc. 0 Emb. 75.3	102.02	1337+00	Cut 0 Fill 137	Exc. 289.8 Emb. 0	100.44	Cut 128 Fill 0
Exc. 0 Emb. 730.5	101.74	1336+85	Cut 0 Fill 194	Exc. 341.7 Emb. 0	102.07	Cut 135 Fill 0
Exc. 0 Emb 1637.0	96.86	1336+50	Cut 0 Fill 345	Exc. 137.0 Emb. 11.1	102.20	Cut 134 Fill 0
Exc. 0 Emb. 973.1	99.25 D.C.=4 D Exc.=11.1	1336+00	Cut 0 Fill 245	Exc. 125.0 Emb. 11.1	101.74	Cut 112 Fill 24
Exc. 0 Emb. 311.1	102.00 D.C.=8 D Exc.=22.2	1335+50	Cut 0 Fill 226			1339+75

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

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

5398.39

12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HIGHWAY VIEW		F.2(3)V(10)	40	40	42

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

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

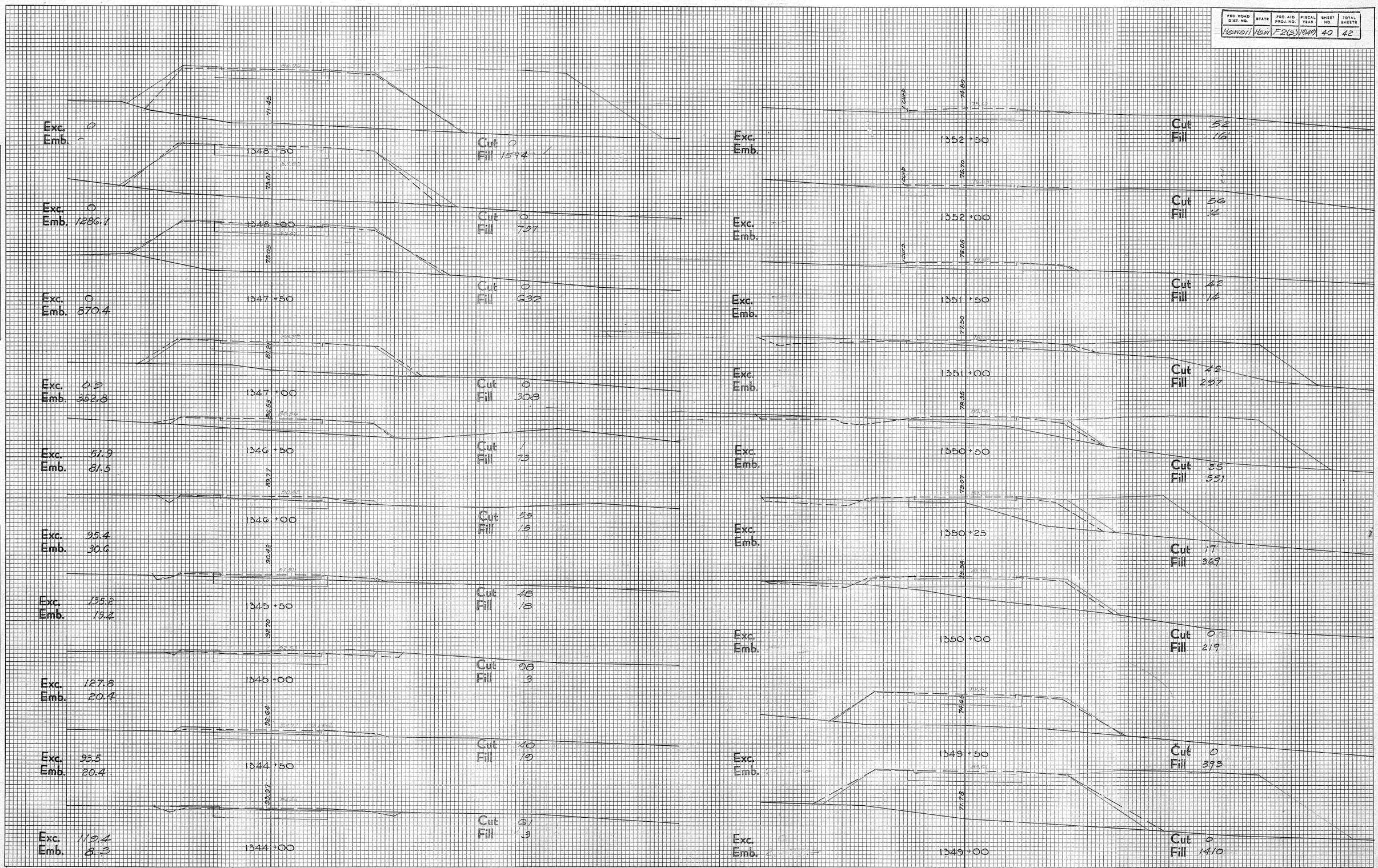


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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

5398.40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Hom	F 2(3)	1969	41	42

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

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

NOTE: From Sta 1350+50 to Sta 1354+36.63 Connection Cross-Sections Existing elevations on these Cross-Sections are approximations.

1350+50
C = 8
F = 3

1355+41.53 — G 8.4 Finished Elevation = 5.18 (1)
G 2.46 Existing Ground
Exc. 5.3
Emb. 2.7
Cut 0
Fill 0

1355+00
Exc. 53.3
Emb. 2.8
Cut 6
Fill 3

1354+50
Exc. 131.5
Emb. 0
Cut 57
Fill 0

END OF PROJECT — STA 1354+36.63

1354+00
Exc. 205.6
Emb. 0
Cut 85
Fill 0

1353+50
Exc. 133.1
Emb. 0
Cut 137
Fill 0

1353+00
Exc. 120.1
Emb. 12.9
Cut 79
Fill 0

1354+34.33
Exc. = 45.1
Emb. = 0
C = 0
F = 0

1354+00
Exc. = 136.1
Emb. = 0
C = 71
F = 0

1353+50
Exc. = 237.9
Emb. = 0
C = 76
F = 0

1353+00
Exc. = 328.7
Emb. = 0
C = 151
F = 0

1352+50
Exc. = 355.5
Emb. = 0
C = 174
F = 0

1352+00
Exc. = 212.2
Emb. = 3.7
C = 210
F = 0

1351+50
Exc. = 182.4
Emb. = 3.7
C = 84
F = 4

1351+00
Exc. = 142.6
Emb. = 2.8
C = 113
F = 0

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

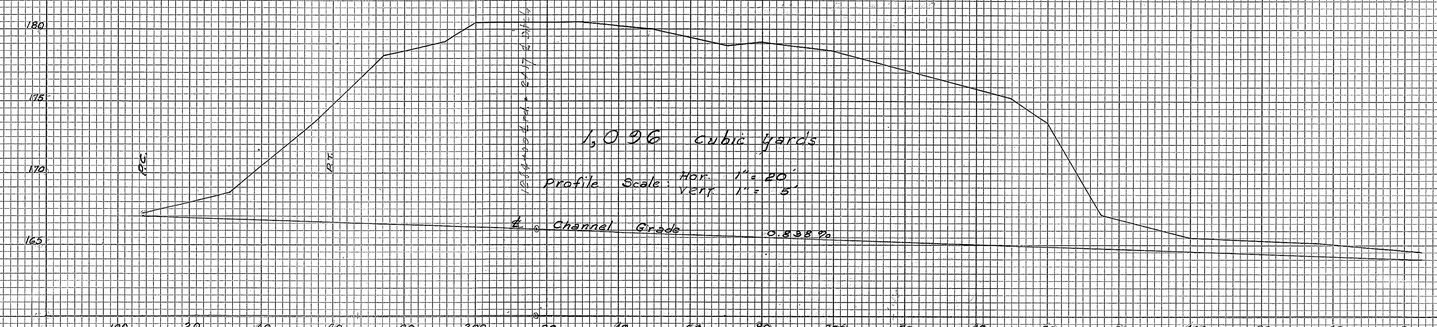
5398.41

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MISS.	F 2(3)	1940	42	42

Centerline Profile & Cross-section of Proposed Channel

at

Station 1284+00 - 20 ℄ from East of R/W Bdy.



1,096 cubic yards

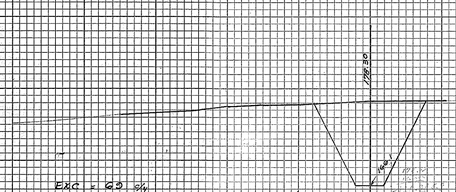
Profile Scale Hor. 1" = 20'
Vert. 1" = 5'

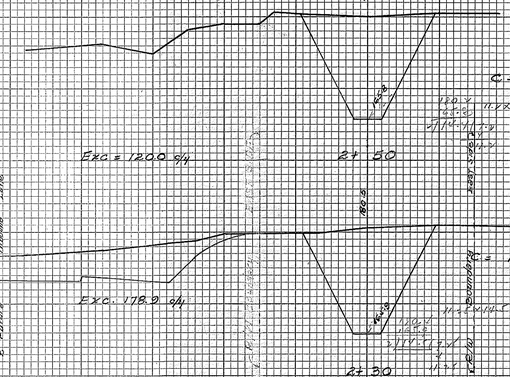
Cross-section

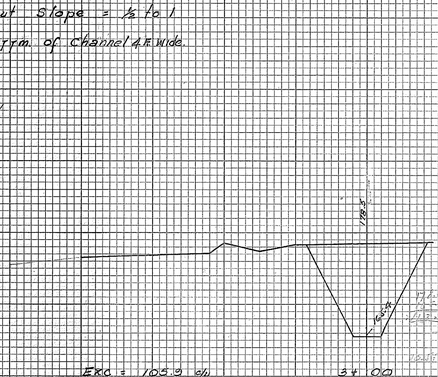
Scale : Hor. 1" = 10'
Vert. 1" = 10'

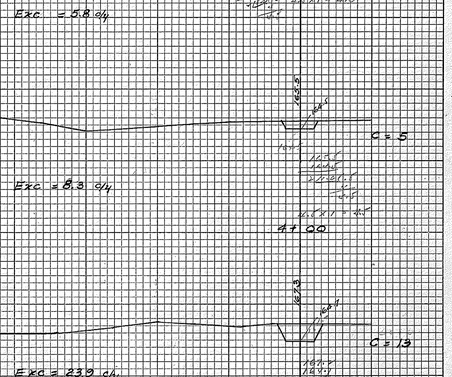
Cut Slope = ½ to 1

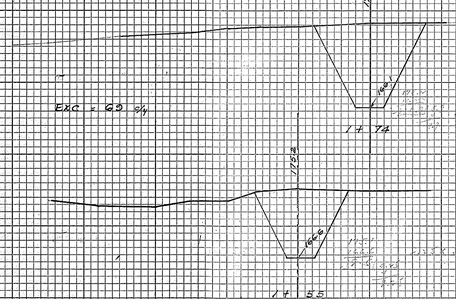
Bttm. of Channel 4 ℄ Wide

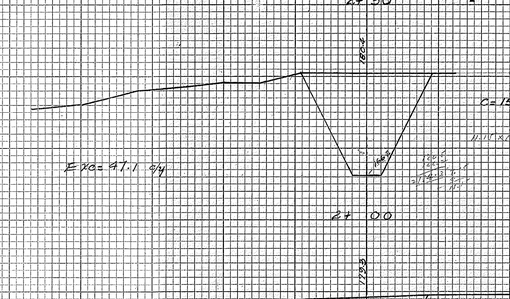


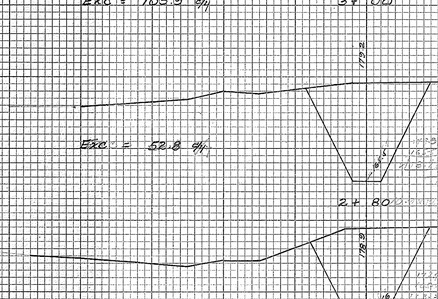


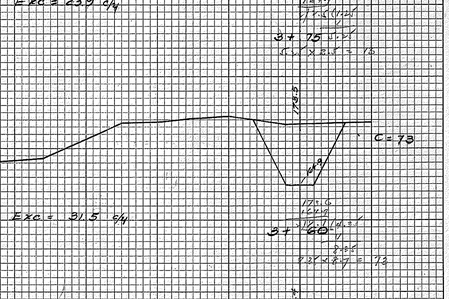












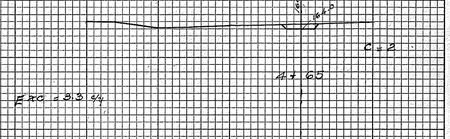


PLATE 3 - CROSS SECTION O.P.R.R.P.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

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

539842

17