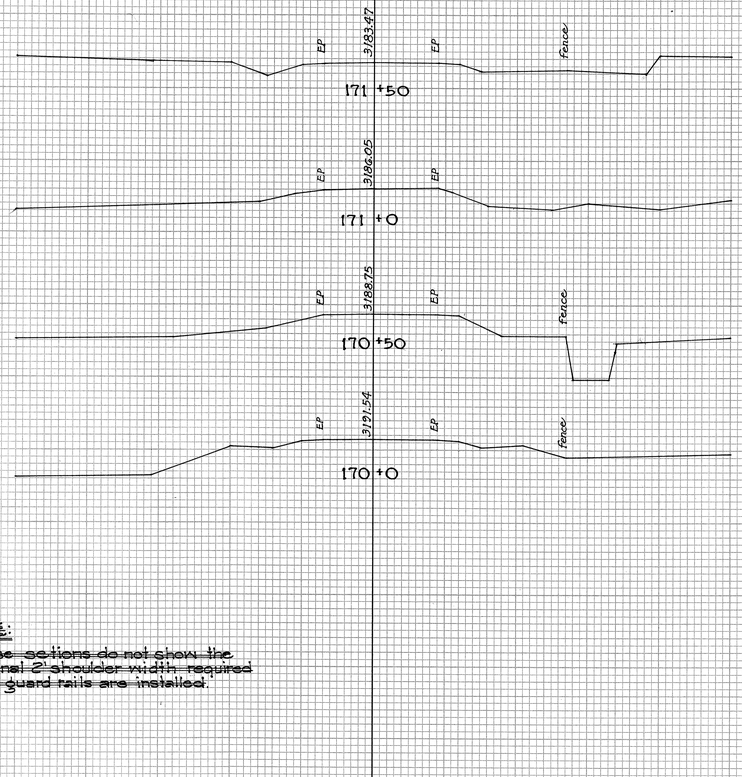
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(3)	1956	12	27

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

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED H.T. 1-56
PLOTTED T.Y. 1-56
CHECKED
AREAS
AREAS CHECKED
BY S.K.
DATE



NOTE:
These sections do not show the additional 2' shoulder width required where guard rails are installed.

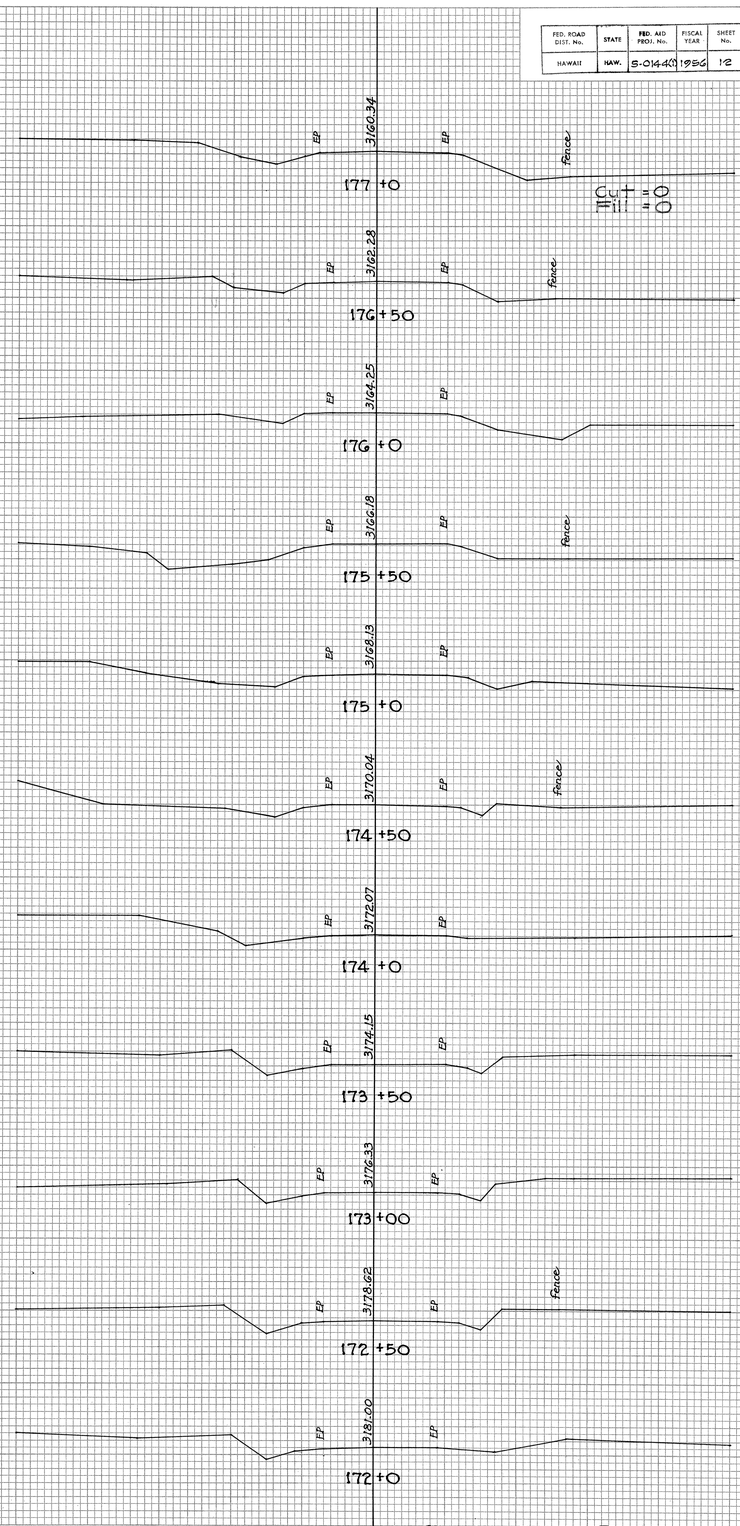


PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

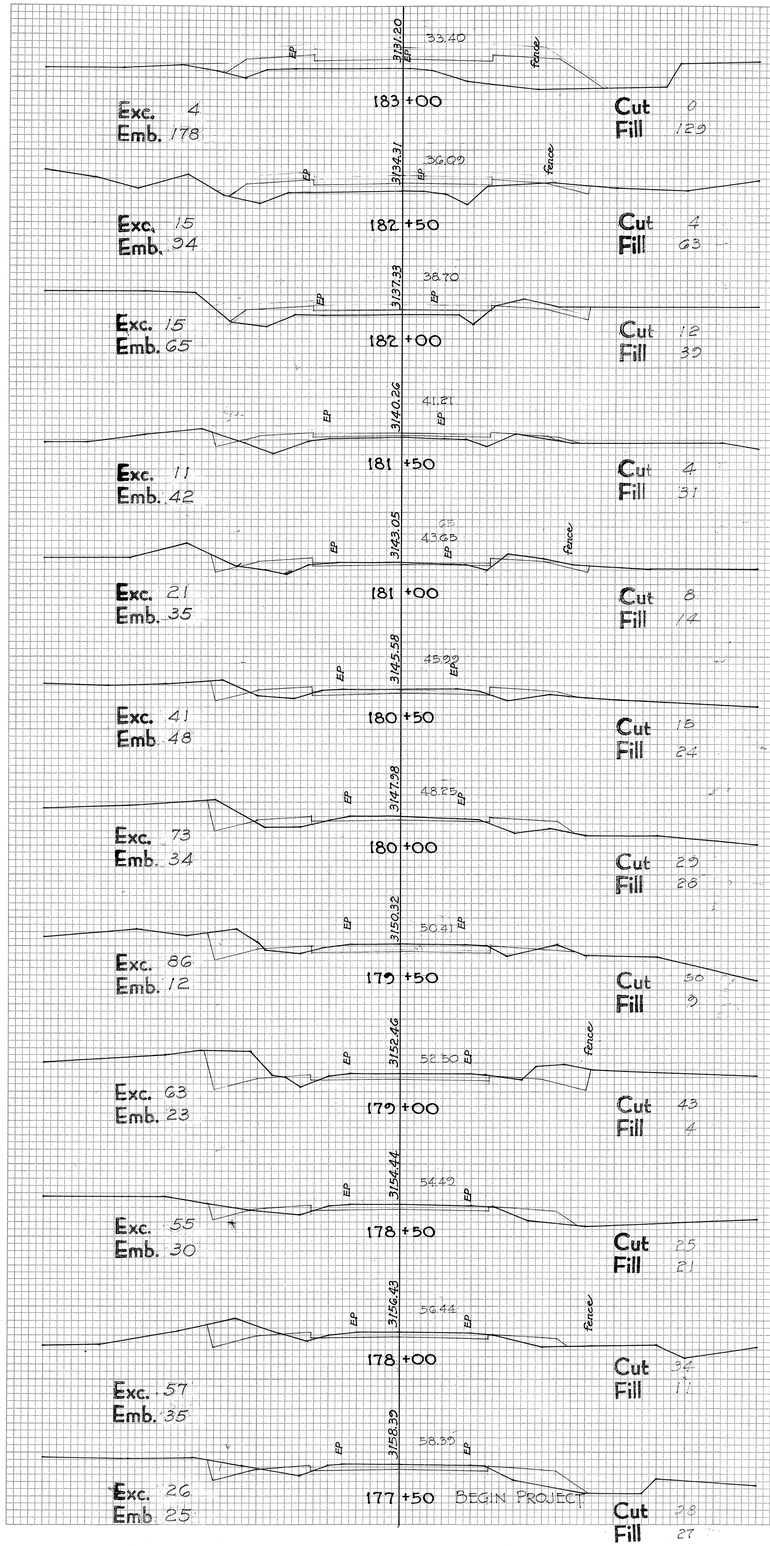
5861.12

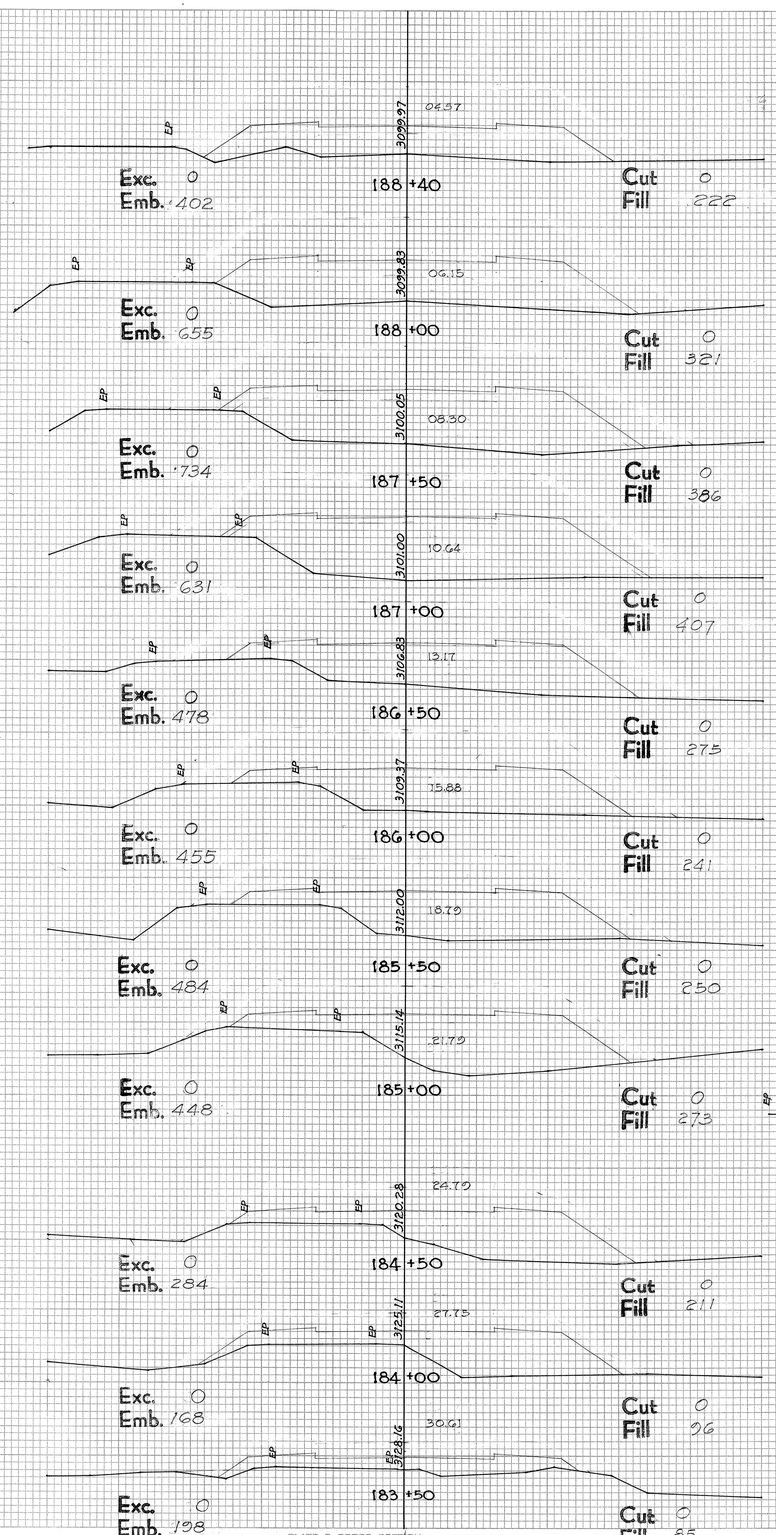
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(1)	1956	18	27

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

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

BY	DATE
S.K.	1/56
H.T.Y.	1/56
T.S.K.	2/56
S.K.	2/56





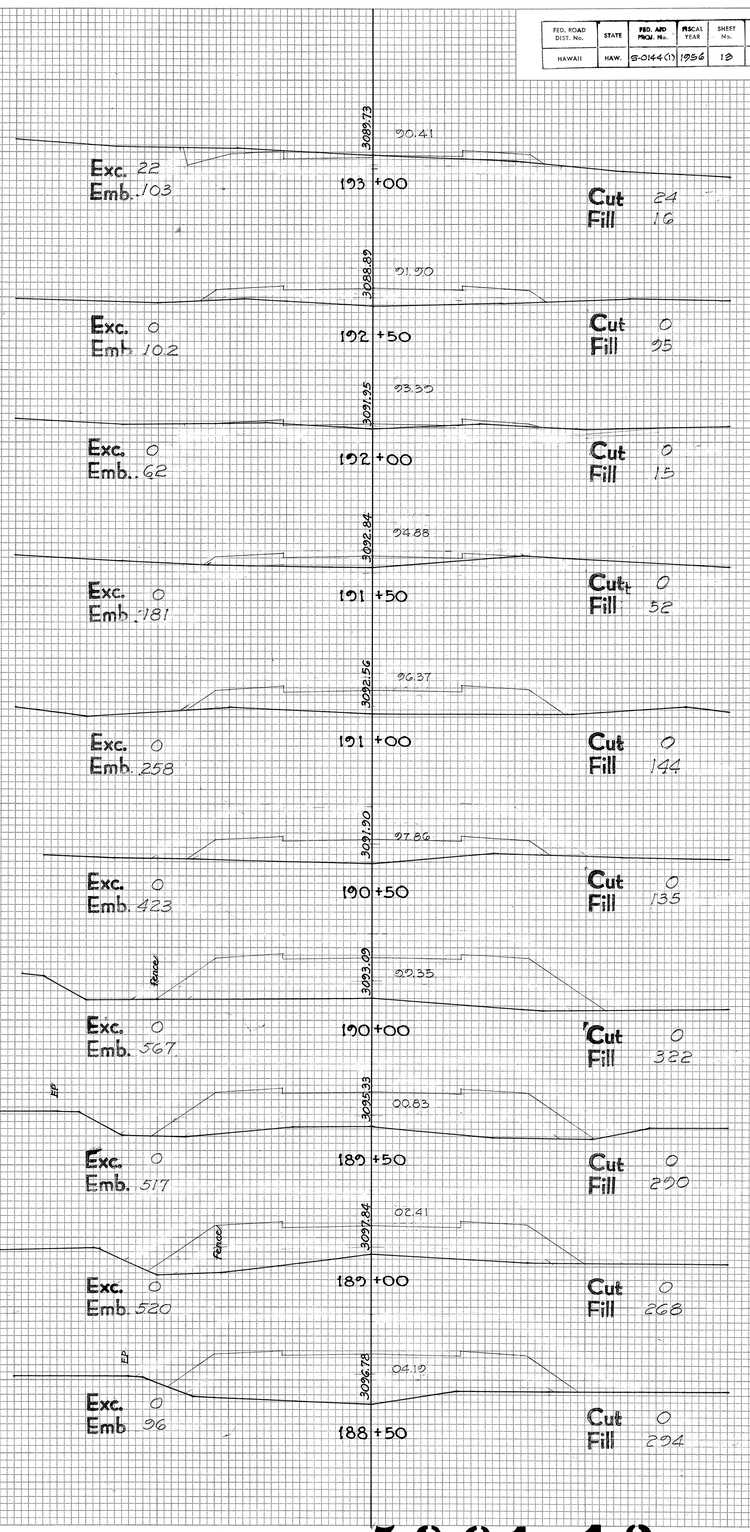


PLATE 3 CROSS SECTION U. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5861.13

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(2)	1956	14	27

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

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

BY	DATE
R.T.	1/56
S.K.	1/56
S.K.	2/56
S.K.	3/56
S.K.	5/56

3063.62 — 67.75

Exc. 0 Emb. 292 — 198+50 — Cut 0 Fill 164

3066.82 — 70.42

Exc. 0 Emb. 168 — 198+00 — Cut 0 Fill 151

3072.11 — 72.98

Exc. 52 Emb. 69 — 197+50 — Cut 0 Fill 30

3073.24 — 75.41

Exc. 90 Emb. 56 — 197+00 — Cut 56 Fill 44

3076.60 — 77.72

Exc. 127 Emb. 21 — 196+50 — Cut 41 Fill 16

3081.12 — 79.00

Exc. 166 Emb. 16 — 196+00 — Cut 96 Fill 7

3082.99 — 81.96

Exc. 227 Emb. 9 — 195+50 — Cut 83 Fill 10

3085.69 — 83.80

Exc. 246 Emb. 0 — 195+00 — Cut 162 Fill 0

3086.16 — 3085.69

Exc. 176 Emb. 0 — 194+50 — Cut 104 Fill 0

3087.48 — 3087.57

Exc. 87 Emb. 48 — 194+00 — Cut 86 Fill 0

3087.58 — 3088.92

Exc. 30 Emb. 63 — 193+50 — Cut 8 Fill 52

3032.16 — 34.73

Exc. 0 Emb. 202 — 204+50 — Cut 0 Fill 90

3039.20 — 37.48

Exc. 0 Emb. 232 — 204+00 — Cut 0 Fill 128

3034.30 — 40.23

Exc. 0 Emb. 156 — 203+50 — Cut 0 Fill 123

3041.14 — 42.98

Exc. 6 Emb. 89 — 203+00 — Cut 0 Fill 45

3043.40 — 45.73

Exc. 6 Emb. 220 — 202+50 — Cut 6 Fill 51

3043.73 — 48.48

Exc. 0 Emb. 404 — 202+00 — Cut 0 Fill 187

3046.08 — 51.23

Exc. 0 Emb. 464 — 201+50 — Cut 0 Fill 249

3048.29 — 53.98

Exc. 0 Emb. 426 — 201+00 — Cut 0 Fill 252

3052.21 — 36.73

Exc. 0 Emb. 311 — 200+50 — Cut 0 Fill 208

3056.75 — 30.48

Exc. 0 Emb. 253 — 200+00 — Cut 0 Fill 128

3059.56 — 62.23

Exc. 0 Emb. 244 — 199+50 — Cut 0 Fill 145

3061.67 — 64.98

Exc. 0 Emb. 261 — 199+00 — Cut 0 Fill 118

3006.70 — 11.17

Exc. 0 Emb. 326 — 209+50 — Cut 0 Fill 188

3008.83 — 12.98

Exc. 0 Emb. 298 — 209+00 — Cut 0 Fill 164

3010.98 — 14.81

Exc. 0 Emb. 279 — 208+50 — Cut 0 Fill 158

3012.76 — 16.81

Exc. 0 Emb. 183 — 208+00 — Cut 0 Fill 143

3017.22 — 18.98

Exc. 0 Emb. 78 — 207+50 — Cut 0 Fill 55

3020.14 — 21.31

Exc. 0 Emb. 98 — 207+00 — Cut 0 Fill 29

3021.07 — 23.81

Exc. 0 Emb. 123 — 206+50 — Cut 0 Fill 77

3025.84 — 26.48

Exc. 25 Emb. 66 — 206+00 — Cut 0 Fill 56

3027.94 — 29.23

Exc. 89 Emb. 25 — 205+50 — Cut 27 Fill 15

3033.11 — 31.98

Exc. 64 Emb. 94 — 205+00 — Cut 69 Fill 12

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

58 61.14

FEDERAL AID DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	HAWAII	HAW.	S-0144(1)	1986	15	27

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

ORIGINAL SURVEY
SURVEYED H.T. S.K.
PLOTTED T.Y.
CHECKED S.K.
NOTE BOOK
NO.
DATE 11/85 12/85 2/86 2/86
BY H.T. S.K. T.Y. S.K.
AREAS CHECKED S.K.

2995.73 01.28
213 +75
Exc. 247 Emb. 0
Cut 365 Fill 0

2996.99 02.67
213 +50
Exc. 237 Emb. 0
Cut 168 Fill 0

2997.67 05.38
213 +00
Exc. 109 Emb. 7
Cut 88 Fill 0

2997.11 07.07
212 +50
Exc. 28 Emb. 118
Cut 30 Fill 7

2996.46 00.45
212 +00
Exc. 0 Emb. 60
Cut 0 Fill 120

3000.09 01.42
211 +80
Exc. 0 Emb. 106
Cut 0 Fill 41

2999.06 02.82
211 +50
Exc. 0 Emb. 185
Cut 0 Fill 150

3003.86 05.08
211 +00
Exc. 21 Emb. 60
Cut 0 Fill 50

3006.92 07.22
210 +50
Exc. 21 Emb. 122
Cut 23 Fill 15

3006.14 09.25
210 +00
Exc. 0 Emb. 282
Cut 0 Fill 117

2972.05 68.38
217 +50
Exc. 644 Emb. 0
Cut 377 Fill 0

2972.19 71.48
217 +00
Exc. 566 Emb. 0
Cut 318 Fill 0

2974.56 74.58
216 +50
Exc. 514 Emb. 0
Cut 293 Fill 0

2978.66 77.68
216 +00
Exc. 503 Emb. 0
Cut 262 Fill 0

2981.07 80.78
215 +50
Exc. 711 Emb. 0
Cut 378 Fill 0

2980.81 83.88
215 +00
Exc. 761 Emb. 0
Cut 390 Fill 0

2985.46 86.97
214 +50
Exc. 588 Emb. 0
Cut 432 Fill 0

2988.61 89.85
214 +00
Exc. 263 Emb. 0
Cut 203 Fill 0

2943.56 40.48
228 +00
Exc. 348 Emb. 0
Cut 236 Fill 0

2942.67 42.34
221 +70
Exc. 292 Emb. 0
Cut 390 Fill 0

2950.24 43.58
221 +50
Exc. 629 Emb. 0
Cut 398 Fill 0

2950.12 46.68
221 +00
Exc. 517 Emb. 0
Cut 281 Fill 0

2953.76 49.78
220 +50
Exc. 455 Emb. 0
Cut 277 Fill 0

2955.18 52.88
220 +00
Exc. 265 Emb. 0
Cut 214 Fill 0

2956.17 55.98
219 +50
Exc. 150 Emb. 7
Cut 72 Fill 8

2960.42 59.08
219 +00
Exc. 227 Emb. 0
Cut 90 Fill 0

2964.09 62.18
218 +50
Exc. 238 Emb. 9
Cut 155 Fill 0

2965.61 65.28
218 +00
Exc. 444 Emb. 9
Cut 102 Fill 10

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5861.15

TERRITORIAL DEPARTMENT OF PUBLIC WORKS
DISTRICT ENGINEER — HAWAII

FILE			SH.
F-9	PUNA	S-0144(1)	2

S-0144(1) 1956 16 27

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

ORIGINAL SURVEY
SURVEYED BY H. Tomosato
PLOTTED 11-7-55
TEMPLATE 11-7-55
NOTE BOOK AREAS 2-3-56
NO. AREAS CHECKED 2-3-56

227 +00 — Cut 0 / Fill 213
227 +50 — Cut 0 / Fill 64
228 +00 — Cut 0 / Fill 180
225 +50 — Cut 381 / Fill 0
225 +00 — Cut 452 / Fill 0
224 +50 — Cut 270 / Fill 1
224 +00 — Cut 69 / Fill 44
223 +50 — Cut 129 / Fill 44
223 +00 — Cut 256 / Fill 0
222 +50 — Cut 352 / Fill 0

76.73 — 232 +50 — Cut 0 / Fill 151
79.24 — 232 +00 — Cut 0 / Fill 169
81.92 — 231 +50 — Cut 0 / Fill 308
84.74 — 231 +00 — Cut 0 / Fill 520
87.78 — 230 +50 — Cut 0 / Fill 335
230 +00 — Cut 0 / Fill 354
220 +50 — Cut 0 / Fill 323
225 +00 — Cut 0 / Fill 340
229 +50 — Cut 0 / Fill 254
229 +00 — Cut 0 / Fill 213
227 +50 — Cut 0 / Fill 532

90.90 — 237 +50 — Cut 7 65 / Fill 45 5
61.72 — 237 +00 — Cut 14 80 / Fill 38 0
68.72 — 236 +50 — Cut 16 87 / Fill 20 1
63.88 — 236 +00 — Cut 12 67 / Fill 22 3
65.21 — 235 +50 — Cut 14 70 / Fill 17 4
66.71 — 235 +00 — Cut 14 60 / Fill 14 5
68.27 — 234 +50 — Cut 10 28 / Fill 27 14
70.21 — 234 +00 — Cut 6 11 / Fill 27 33
72.21 — 233 +50 — Cut 6 16 / Fill 31 42
74.39 — 233 +00 — Cut 5 0 / Fill 129 30

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5S61.16

TERRITORIAL DEPARTMENT OF PUBLIC WORKS
DISTRICT ENGINEER — HAWAII

FILE			NO.
F-9	PUNA	S-0144(1)	2

S-0144(1) 1956	17	27	

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

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

243+00 — 2851.21 — 52.76 — Exc. 0 — Emb. ~~344~~ 268.5

242+50 — 2852.47 — 54.24 — Exc. 0 — Emb. ~~207~~ 138.9

242+00 — 2853.79 — 54.58 — Exc. 0 — Emb. ~~160~~ 99.1

241+50 — 2853.36 — 55.72 — Exc. 0 — Emb. ~~155~~ 106.5

241+00 — 2854.73 — 56.46 — Exc. 0 — Emb. ~~125~~ 114.8

240+50 — 2855.63 — 57.20 — Exc. 0 — Emb. ~~229~~ 128.7

240+00 — 2856.62 — 57.54 — Exc. 0 — Emb. ~~230~~ 120.4

239+50 — 2857.62 — 58.68 — Exc. 0 — Emb. ~~249~~ 125.9

239+00 — 2858.60 — 59.42 — Exc. 0 5.6 — Emb. ~~230~~ 92.6

238+50 — 2859.65 — 60.16 — Exc. ~~7~~ 25.0 — Emb. ~~165~~ 40.7

238+00 — Exc. ~~7~~ 79.6 — Emb. ~~111~~ 18.5

Cut 0 0 — Fill ~~230~~ 182

Cut ~~144~~ 108 — Fill 0 0

Cut ~~80~~ 42 — Fill 0 11

Cut 0 0 — Fill ~~93~~ 65

Cut 0 5 — Fill ~~85~~ 50

Cut 0 0 — Fill ~~118~~ 74

Cut 0 0 — Fill ~~120~~ 65

Cut 0 0 — Fill ~~128~~ 65

Cut 0 0 — Fill ~~141~~ 71

Cut 0 6 — Fill ~~107~~ 29

Cut 0 21 — Fill ~~75~~ 115

248+50 — 2843.30 — 42.47 — Exc. ~~157~~ 157.4 — Emb. ~~7~~ 0.0

248+00 — 2844.38 — 43.71 — Exc. ~~130~~ 127.6 — Emb. ~~7~~ 0.9

247+50 — 2845.82 — 44.80 — Exc. ~~151~~ 132.4 — Emb. 0

247+00 — 2845.99 — 46.00 — Exc. ~~105~~ 76.3 — Emb. ~~8~~ 5.6

246+50 — 2846.54 — 47.02 — Exc. ~~65~~ 55.6 — Emb. ~~15~~ 15.7

246+00 — 2847.26 — 48.08 — Exc. ~~57~~ 59.3 — Emb. ~~3~~ 30.6

245+50 — 2847.82 — 48.93 — Exc. ~~52~~ 55.6 — Emb. ~~11~~ 43.5

245+00 — 2848.68 — 49.77 — Exc. ~~51~~ 50.9 — Emb. ~~46~~ 41.7

244+50 — 2849.30 — 50.54 — Exc. ~~52~~ 50.0 — Emb. ~~66~~ 45.4

244+00 — 2849.93 — 51.28 — Exc. ~~24~~ 24.1 — Emb. ~~101~~ 135.2

243+50 — 2850.51 — 52.02 — Exc. 0 — Emb. ~~334~~ 276.9

Cut ~~98~~ 98 — Fill 0 0

Cut ~~72~~ 72 — Fill ~~7~~ 1

Cut ~~66~~ 68 — Fill 0 0

Cut 73 75 — Fill 0 0

Cut 37 29 — Fill ~~3~~ 6

Cut ~~30~~ 31 — Fill ~~3~~ 11

Cut 32 33 — Fill ~~20~~ 22

Cut 24 27 — Fill 24 25

Cut 31 28 — Fill 28 20

Cut ~~26~~ 26 — Fill ~~45~~ 29

Cut 0 0 — Fill ~~50~~ 117

254+00 — 2824.78 — 24.66 — Exc. ~~10~~ 63.0 — Emb. ~~138~~ 92.6

253+50 — 2826.02 — 26.47 — Exc. ~~93~~ 63.9 — Emb. ~~162~~ 137.0

253+00 — 2828.59 — 28.22 — Exc. ~~32~~ 64.8 — Emb. ~~192~~ 156.5

252+50 — 2830.35 — 30.10 — Exc. ~~77~~ 74.1 — Emb. ~~130~~ 111.1

252+00 — 2832.10 — 31.88 — Exc. ~~76~~ 101.9 — Emb. ~~50~~ 36.1

251+50 — 2833.98 — 33.60 — Exc. ~~95~~ 117.6 — Emb. ~~10~~ 1.9

251+00 — 2835.72 — 35.24 — Exc. ~~73~~ 127.8 — Emb. ~~6~~ 1.9

250+50 — 2837.62 — 36.82 — Exc. ~~141~~ 152.8 — Emb. 0

250+00 — 2839.28 — 38.34 — Exc. ~~171~~ 180.6 — Emb. 0

249+50 — 2841.08 — 39.78 — Exc. ~~162~~ 172.6 — Emb. 0

249+00 — 2842.88 — 41.16 — Exc. ~~163~~ 168.5 — Emb. 0

Cut 0 30 — Fill ~~64~~ 40

Cut ~~10~~ 38 — Fill ~~85~~ 60

Cut ~~15~~ 31 — Fill ~~43~~ 88

Cut ~~20~~ 39 — Fill ~~94~~ 81

Cut ~~55~~ 69 — Fill ~~4~~ 0

Cut ~~48~~ 58 — Fill ~~10~~ 2

Cut ~~78~~ 80 — Fill 0 0

Cut ~~81~~ 85 — Fill 0 0

Cut ~~104~~ 110 — Fill 0 0

Cut ~~78~~ 84 — Fill 0 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.

5861.17

TERRITORIAL DEPARTMENT OF PUBLIC WORKS
DISTRICT ENGINEER — HAWAII

FILE			NO.
F-S	PUNA	S-0144(1)	2

S-0144(1) 1956 18 27

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

ORIGINAL SURVEY
SURVEYED BY A.Y.
PLOTTED E.E.
TEMPLATE R.K.
REVISED A.A.
AREAS CHECKED
NOTE BOOK
NO.

259+50 — 2806.58 — 07.12
Exc. 0 Emb. 208 136.1

259+00 — 2806.85 — 08.33
Exc. 0 Emb. 193 104.6

258+50 — 2808.62 — 09.94
Exc. 0 5.6 Emb. 177 96.3

258+00 — 2810.32 — 11.38
Exc. 0 16.7 Emb. 159 80.6

257+50 — 2812.21 — 12.86
Exc. 0 25.0 Emb. 129 54.6

257+00 — 2814.05 — 14.40
Exc. 0 48.2 Emb. 93 31.5

256+50 — 2815.78 — 15.99
Exc. 0 70.4 Emb. 62 11.1

256+00 — 2817.62 — 17.69
Exc. 4 62.0 Emb. 11 57.4

255+50 — 2819.54 — 19.31
Exc. 10 58.3 Emb. 124 77.8

255+00 — 2821.38 — 21.06
Exc. 21 63.0 Emb. 111 74.1

254+50 — 2823.14 — 22.84
Exc. 11 58.3 Emb. 137 80.8

2791.63 — 89.93

2795+00 — 2792.80 — 91.69
Cut 0 0 Exc. 108 181.5
Fill 110 87 Emb. 7 0

2794+50 — 2794.44 — 93.41
Cut 0 0 Exc. 76 117.6
Fill 112 60 Emb. 85 12.0

2794+00 — 2795.14 — 95.00
Cut 0 0 Exc. 75 77.8
Fill 96 53 Emb. 40 23.2

2793+50 — 2796.47 — 96.73
Cut 0 6 Exc. 63 62.0
Fill 95 51 Emb. 30 24.1

2793+00 — 2797.67 — 98.33
Cut 0 12 Exc. 16 37.0
Fill 77 36 Emb. 7 43.5

2792+50 — 2799.00 — 99.88
Cut 0 15 Exc. 5 16.7
Fill 62 23 Emb. 84 66.7

2792+00 — 2800.16 — 01.40
Cut 0 37 Exc. 4 10.2
Fill 20 11 Emb. 93 75.0

2791+50 — 2801.32 — 02.87
Cut 0 39 Exc. 0 6.5
Fill 29 1 Emb. 10 88.9

2791+00 — 2802.58 — 04.30
Cut 7 28 Exc. 0 3.7
Fill 91 61 Emb. 138 96.3

2790+50 — 2804.04 — 05.71
Cut 12 35 Exc. 0 2.8
Fill 42 23 Emb. 153 91.7

2790+00 — 2805.41 — 07.12
Cut 4 33 Exc. 0 2.8
Fill 7 0 Emb. 181 125.9

2770.00 — 68.14

2770+50 — 2771.47 — 70.21
Cut 66 116 Exc. 66 191.7
Fill 7 0 Emb. 21 0.9

2770+00 — 2772.78 — 72.29
Cut 51 80 Exc. 64 192.6
Fill + 0 Emb. 29 0

2769+50 — 2772.46 — 71.36
Cut 31 47 Exc. 45 103.7
Fill 26 13 Emb. 101 46.3

2769+00 — 2774.39 — 76.43
Cut 50 37 Exc. 5 9.3
Fill 17 12 Emb. 110 93.5

2768+50 — 2773.47 — 78.42
Cut 15 30 Exc. 38 95.4
Fill 24 14 Emb. 106 47.2

2768+00 — 2778.54 — 80.50
Cut + 10 Exc. 121 216.7
Fill 53 33 Emb. 4 0

2767+50 — 2783.52 — 82.47
Cut 4 8 Exc. 212 294.4
Fill 38 39 Emb. 0

2767+00 — 2785.76 — 84.40
Cut 0 3 Exc. 233 305.6
Fill 62 42 Emb. 0

2766+50 — 2788.34 — 86.28
Cut 0 4 Exc. 84 262.0
Fill 69 54 Emb. 0

2766+00 — 2789.97 — 88.13
Cut 0 0 Exc. 41 222.6
Fill 50 50 Emb. 0

2765+50 — 2791.87 — 90.08
Cut 0 3 Exc. 141 216.7
Fill 55 49 Emb. 7 0

Cut 51 111
Fill 12 1

Cut 42 96
Fill 4 0

Cut 40 112
Fill 14 0

Cut 0 0
Fill 117 50

Cut 0 10
Fill 107 51

Cut 34 33
Fill 4 0

Cut 65 141
Fill 0 0

Cut 134 177
Fill 0 0

Cut 118 153
Fill 0 0

Cut 99 130
Fill 0 0

Cut 86 118
Fill 0 0

The existing pavement and shoulders to remain at present grade.

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.

5861.18

TERRITORIAL DEPARTMENT OF PUBLIC WORKS
DISTRICT ENGINEER -- HAWAII

FILE			NO.
F-9	PUNA	S-0144(1)	2

S-01440) 1956 19 27

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

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

276+00 — Exc. 25.0 — Emb. 30.6
275+50 — Exc. 4.6 — Emb. 43.5
275+00 — Exc. 61.1 — Emb. 27.8
274+50 — Exc. 97.2 — Emb. 10.2
274+00 — Exc. 53.7 — Emb. 40.7
273+50 — Exc. 13.9 — Emb. 97.2
273+00 — Exc. 49.1 — Emb. 62.0
272+50 — Exc. 139.8 — Emb. 10.2
272+00 — Exc. 215.7 — Emb. 9.3
271+50 — Exc. 204.6 — Emb. 0
271+00 — Exc. 182.4 — Emb. 0.9

280+50 — Exc. 28.7 — Emb. 176.9
280+00 — Exc. 11.1 — Emb. 290.3
279+50 — Exc. 384.3
279+00 — Exc. 423.0
278+50 — Exc. 383.3
278+00 — Exc. 9.3 — Emb. 295.4
277+50 — Exc. 4.4 — Emb. 78.5
277+30 — Exc. 20.6 — Emb. 38.3
277+15 — Exc. 41.9 — Emb. 12.5
277+00 — Exc. 76.9 — Emb. 50.9
276+50 — Exc. 27.8 — Emb. 30.8

285+00 — Exc. 117.8 — Emb. 1.5
285+00 — Exc. 204.6 — Emb. 1.9
285+00 — Exc. 200.9 — Emb. 1.9
284+50 — Exc. 190.7 — Emb. 1.9
284+00 — Exc. 175.9 — Emb. 3.7
283+50 — Exc. 293.5 — Emb. 5.6
283+00 — Exc. 366.7 — Emb. 3.7
282+50 — Exc. 284.6 — Emb. 1.9
282+00 — Exc. 150.9 — Emb. 10.2
281+50 — Exc. 68.5 — Emb. 56.5
281+00 — Exc. 27.6 — Emb. 101.9

PLATE 3 - CROSS SECTION C.P.R.R.S.R.E. STANDARD
KEUFFEL & ESSER CO. N.Y.
K & E CO. No. 345-3 MADE IN U.S.A.

5861.19

TERRITORY OF HAWAII — DEPARTMENT OF PUBLIC WORKS — DISTRICT ENGINEER — HONOLULU

FILE	PROJECT	SHEET NO.
F-9	P-NA S-01441(1)	2

S-01441(1) 1956 | 20 | 27

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED A.F. — PLOTTED — TRACED — AREAS — AREAS CHECKED — BY — DATE 2-49 — 3-56 — 3-56

291+00 — 2634.22 — 85.74 (82.87) — Exc. 0 — Emb. 221 127.8
290+50 — 2636.42 — 88.45 (85.51) — Exc. 0 — Emb. 221 183.3
290+00 — 2638.12 — 90.01 (87.02) — Exc. 0 — Emb. 24 213.0
289+50 — 2639.63 — 91.72 (88.68) — Exc. 0 — Emb. 227 237.0
289+00 — 2691.62 — 93.58 (90.41) — Exc. 0 — Emb. 415 218.5
288+50 — 2693.52 — 95.58 (92.40) — Exc. 0 — Emb. 424 207.4
288+00 — 2695.61 — 97.65 (94.30) — Exc. 0 — Emb. 428 234.3
287+50 — 2698.13 — 99.73 (96.56) — Exc. 0 — Emb. 360 200.9
287+00 — 2700.62 — 01.80 (98.84) — Exc. 0 — Emb. 221 126.9
286+50 — 2703.28 — 03.87 (100.94) — Exc. 12 — Emb. 193 60.1
286+00 — Exc. 4 — Emb. 14 20.6 / 0.7

Cut 0 — Fill 99 49
Cut 0 — Fill 150 89
Cut 0 — Fill 172 109
Cut 0 — Fill 190 121
Cut 0 — Fill 233 135
Cut 0 — Fill 219 101
Cut 0 — Fill 239 123
Cut 0 — Fill 223 130
Cut 0 — Fill 177 87
Cut 0 — Fill 130 50
Cut 14 — Fill 42 3

296+00 — 2678.96 — 72.74 (69.85) — Exc. 35 — Emb. 118
295+50 — 2679.46 — 80.05 (77.11) — Exc. 32 — Emb. 33
295+00 — 2679.85 — 80.44 (77.50) — Exc. 43 — Emb. 30
294+50 — 2680.33 — 80.73 (77.80) — Exc. 61 — Emb. 19 — 63.0 / 15.7
294+00 — 2680.69 — 81.10 (78.17) — Exc. 57 — Emb. 19 — 63.9 / 25.9
293+50 — 2681.09 — 81.51 (78.58) — Exc. 27 — Emb. 61 — 50.0 / 38.0
293+00 — 2681.47 — 82.07 (79.14) — Exc. 66 — Emb. 79 — 52.8 / 44.4
292+50 — 2681.84 — 82.77 (79.84) — Exc. 19 — Emb. 132 — 69.4 / 53.7
292+00 — 2682.51 — 83.61 (80.68) — Exc. 38 — Emb. 141 — 43.5 / 75.0
291+50 — 2683.18 — 84.61 (81.68) — Exc. 0 — Emb. 173 — 2.8 / 91.7

Cut 17 — Fill 50
Cut 10 — Fill 77
Cut 25 — Fill 23
Cut 27 — Fill 9
Cut 43 — Fill 11 — 41 / 8
Cut 19 — Fill 31 — 28 / 20
Cut 10 — Fill 35 — 26 / 21
Cut 18 — Fill 50 — 31 / 27
Cut 35 — Fill 64 — 44 / 31
Cut 0 — Fill 88 — 3 / 50

301+00 — 2674.71 — 72.50 — Exc. 240 — Emb. 0
300+50 — 2675.19 — 73.04 — Exc. 212 — Emb. 0
300+00 — 2675.72 — 74.70 — Exc. 220 — Emb. 0
299+50 — 2676.24 — 75.65 — Exc. 112 — Emb. 1
299+00 — 2676.66 — 76.51 — Exc. 131 — Emb. 6
298+50 — 2677.05 — 77.28 — Exc. 121 — Emb. 13
298+00 — 2677.43 — 77.95 — Exc. 90 — Emb. 30
297+50 — 2677.81 — 78.53 — Exc. 75 — Emb. 33
297+00 — 2678.16 — 79.01 — Exc. 53 — Emb. 34
296+50 — 2678.75 — 79.40 — Exc. 25 — Emb. 73

Cut 151 — Fill 0
Cut 108 — Fill 0
Cut 121 — Fill 0
Cut 95 — Fill 0
Cut 32 — Fill 1
Cut 49 — Fill 5
Cut 60 — Fill 15
Cut 37 — Fill 17
Cut 47 — Fill 24
Cut 10 — Fill 34

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.

5861.20

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(1)	1956	21	27

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

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

2653.85 — 55.81 — 306+00 — Exc. 78, Emb. 106 — Cut 25, Fill 71

2656.72 — 57.91 — 305+50 — Exc. 87, Emb. 49 — Cut 59, Fill 43

2659.66 — 59.91 — 305+00 — Exc. 114, Emb. 4 — Cut 35, Fill 10

2662.52 — 61.82 — 304+50 — Exc. 211, Emb. 5 — Cut 88, Fill 5

2665.22 — 63.63 — 304+00 — Exc. 294, Emb. 0 — Cut 140, Fill 0

2667.54 — 65.34 — 303+50 — Exc. 381, Emb. 0 — Cut 178, Fill 0

2669.51 — 66.97 — 303+00 — Exc. 521, Emb. 0 — Cut 233, Fill 0

2671.36 — 68.40 — 302+50 — Exc. 569, Emb. 0 — Cut 330, Fill 0

2672.88 — 69.52 — 302+00 — Exc. 271, Emb. 0 — Cut 285, Fill 0

2673.36 — 70.68 — 301+72 — Exc. 185, Emb. 0 — Cut 238, Fill 0

2673.96 — 71.26 — 301+50 — Exc. 341, Emb. 0 — Cut 217, Fill 0

2632.53 — 32.38 — 311+25 — Exc. 151, Emb. 5 — Cut 172, Fill 9

2633.15 — 33.50 — 311+00 — Exc. 144, Emb. 55 — Cut 155, Fill 2

2634.32 — 35.74 — 310+50 — Exc. 0, Emb. 139 — Cut 0, Fill 57

2635.57 — 37.97 — 310+00 — Exc. 0, Emb. 329 — Cut 0, Fill 93

2637.13 — 40.21 — 309+50 — Exc. 0, Emb. 527 — Cut 0, Fill 262

2638.85 — 42.45 — 309+00 — Exc. 0, Emb. 630 — Cut 0, Fill 307

2640.74 — 44.68 — 308+50 — Exc. 0, Emb. 595 — Cut 0, Fill 373

2643.04 — 46.92 — 308+00 — Exc. 0, Emb. 506 — Cut 0, Fill 270

2645.39 — 49.16 — 307+50 — Exc. 0, Emb. 423 — Cut 0, Fill 277

2648.13 — 51.39 — 307+00 — Exc. 0, Emb. 290 — Cut 0, Fill 180

2650.91 — 53.63 — 306+50 — Exc. 23, Emb. 189 — Cut 0, Fill 133

2613.22 — 11.13 — 316+00 — Exc. 197, Emb. 0 — Cut 187, Fill 0

2615.29 — 12.25 — 315+75 — Exc. 194, Emb. 0 — Cut 238, Fill 0

2616.45 — 13.37 — 315+50 — Exc. 360, Emb. 0 — Cut 180, Fill 0

2619.19 — 15.60 — 315+00 — Exc. 431, Emb. 0 — Cut 209, Fill 0

2621.73 — 17.84 — 314+50 — Exc. 451, Emb. 0 — Cut 257, Fill 0

2624.08 — 20.08 — 314+00 — Exc. 374, Emb. 0 — Cut 230, Fill 0

2625.96 — 22.31 — 313+50 — Exc. 372, Emb. 0 — Cut 174, Fill 0

2627.63 — 24.55 — 313+00 — Exc. 350, Emb. 0 — Cut 228, Fill 0

2629.23 — 26.79 — 312+50 — Exc. 246, Emb. 8 — Cut 150, Fill 0

2630.63 — 29.02 — 312+00 — Exc. 257, Emb. 14 — Cut 116, Fill 9

2631.80 — 31.26 — 311+50 — Exc. 155, Emb. 7 — Cut 162, Fill 6

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

5861.21

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(1)	1956	22	27

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

W. L. 2/16
T. L. 2/16
W. N. 5/56
W. N. 5/56

88.76 — 2583.34 — EP — EP

321 +00 — Exc. 0 — Emb. 314 — Cut 0 — Fill 207

91.00 — 2587.43 — EP — EP

320+50 — Exc. 0 — Emb. 238 — Cut 0 — Fill 132

93.23 — 2589.83 — EP — EP

320+00 — Exc. 0 — Emb. 232 — Cut 0 — Fill 125

95.47 — 2591.80 — EP — EP

319 +50 — Exc. 0 — Emb. 224 — Cut 0 — Fill 126

97.71 — 2593.75 — EP — EP

319 +00 — Exc. 23.2 — Emb. 136 — Cut 0 — Fill 116

99.94 — 2596.55 — EP — EP

318 +50 — Exc. 38.0 — Emb. 52 — Cut 25 — Fill 31

02.18 — 2601.07 — EP — EP

318 +00 — Exc. 46.3 — Emb. 60.2 — Cut 16 — Fill 25

04.42 — 2605.31 — EP — EP

317 +50 — Exc. 208.3 — Emb. 37.0 — Cut 34 — Fill 40

06.65 — 2608.50 — EP

317 +00 — Exc. 205.4 — Emb. 0 — Cut 191 — Fill 0

08.89 — 2611.54 — EP

316 +50 — Exc. 217.3 — Emb. 0 — Cut 128 — Fill 0

10.57 — 2613.56 — EP

316 +1240 — Exc. 85.2 — Emb. 0 — Cut 184 — Fill 0

70.49 — 2577.60 — EP — EP

324 +50 — Exc. 427.8 — Emb. 2.8 — Cut 197 — Fill 2

75.63 — 2583.35 — EP — EP

324 +00 — Exc. 590.7 — Emb. 3.7 — Cut 265 — Fill 1

77.77 — 2585.37 — EP — EP

323 +50 — Exc. 537.2 — Emb. 1.8 — Cut 373 — Fill 3

79.20 — 2587.08 — EP — EP

323 +17 — Exc. 311.0 — Emb. 0 — Cut 506 — Fill 0

79.94 — 2589.65 — EP — EP

323 +00 — Exc. 662.0 — Emb. 0 — Cut 482 — Fill 0

82.12 — 2587.79 — EP — EP

322 +50 — Exc. 186 — Emb. 0 — Cut 233 — Fill 0

83.41 — 2583.85 — EP — EP

322 +20.73 — Exc. 68 — Emb. 2 — Cut 111 — Fill 1

84.31 — 2584.70 — EP — EP

322 +00 — Exc. 64 — Emb. 117 — Cut 66 — Fill 4

86.53 — 2582.90 — EP — EP

321 +50 — Exc. 3 — Emb. 305 — Cut 3 — Fill 122

Existing concrete removed & the surface was leveled

54.49 — 2553.11 — EP

329 +00 — Exc. 41.7 — Emb. 26 — Cut 16 — Fill 28 — S.M. 60 — S.B. 103 — WASTE 16

56.60 — 2553.24

328 +50 — Exc. 28.3 — Emb. 15 — Cut 29 — Fill 0 — S.M. 59 — S.B. 110 — WASTE 29

57.48 — 2553.14

328 +29.07 — Exc. 120.6 — Emb. 30 — Cut 44 — Fill 38 — S.M. 59 — S.B. 110 — WASTE 44

58.71 — 2558.91

328 +00 — Exc. 246.3 — Emb. 16 — Cut 180 — Fill 14 — S.M. 59 — S.B. 110 — WASTE 94 — Cut 86

60.82 — 2557.81

327 +50 — Exc. 176.9 — Emb. 2.8 — Cut 86 — Fill 3 — S.M. 59 — S.B. 110 — WASTE 86

62.33 — 2563.01

327 +00 — Exc. 117.6 — Emb. 58 — Cut 105 — Fill 0 — S.M. 60 — S.B. 108 — WASTE 105

65.04 — 2560.25

326 +50 — Exc. 29.6 — Emb. 207 — Cut 22 — Fill 63 — S.M. 60 — S.B. 98 — WASTE 22

67.15 — 2564.25

326 +00 — Exc. 53.7 — Emb. 156 — Cut 10 — Fill 161

69.26 — 2562.34

325 +50 — Exc. 21.7 — Emb. 17.6 — Cut 48 — Fill 7

71.37 — 2571.64

325 +00 — Exc. 229.6 — Emb. 13.0 — Cut 51 — Fill 12

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5861.22

11

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-0144(1)	1956	23	27

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

W. L. T. — 2-15-56
H. L. K. — 3-19-56
S. K. — 3-26-56
— 4-18-56
— 5-8-56

No particular rounding of slopes

Existing concrete pavt. was removed and the surface leveled

2534.12 — 35.50 — 333+50 — Exc. 189.8 Emb. 55.6 — Cut 150 Fill 0 S.M. 59 S.B. 108

2531.33 — 37.61 — 333+00 — Exc. 123.2 Emb. 108.3 — Cut 55 Fill 60 S.M. 59 S.B. 96

2535.26 — 39.72 — 332+50 — Exc. 82.9 Emb. 34.7 — Cut 78 Fill 57 S.M. 59 S.B. 99

2540.56 — 40.78 — 332+25 — Exc. 25.8 Emb. 10.7 — Cut 101 Fill 18 S.M. 59 S.B. 101

2541.50 — 41.83 — 332+00 — Exc. 167.6 Emb. 34 — Cut 106 Fill 5 S.M. 59 S.B. 104

2543.30 — 43.94 — 331+50 — Exc. 283.3 Emb. 50 — Cut 75 Fill 32 S.M. 60 S.B. 101

2543.40 — 46.05 — 331+00 — Exc. 208.7 Emb. 0 — Cut 177 Fill 0 S.M. 58 S.B. 99

2545.41 — 47.53 — 330+65 — Exc. 150.8 Emb. 0 — Cut 145 Fill 0 S.M. 58 S.B. 99

2549.68 — 48.16 — 330+50 — Exc. 400.0 Emb. 7.4 — Cut 398 Fill 0 S.M. 59 S.B. 110

2547.71 — 50.27 — 330+00 — Exc. 47.2 Emb. 37 — Cut 34 Fill 8 S.M. 59 S.B. 96

2549.31 — 52.38 — 329+50 — Exc. 30.6 Emb. 56 — Cut 17 Fill 32 S.M. 59 S.B. 99

2527.87 — 24.35 — 336+00 — Exc. 159.6 Emb. 0 — Cut 647 Fill 0 S.M. 58 S.B. 82

2538.63 — 25.16 — 335+95 — Exc. 522.5 Emb. 0 — Cut 1077 Fill 0 S.M. 58 S.B. 34

2534.08 — 25.79 — 335+80 — Exc. 815.6 Emb. 0 — Cut 804 Fill 0 S.M. 58 S.B. 54

2534.40 — 27.06 — 335+50 — Exc. 1150.9 Emb. 0 — Cut 664 Fill 0 S.M. 58 S.B. 54

2535.02 — 29.17 — 335+00 — Exc. 1114.8 Emb. 0 — Cut 579 Fill 0 S.M. 12.5

2539.11 — 31.28 — 334+50 — Exc. 723.5 Emb. 0 — Cut 625 Fill 0 S.M. 12.5

2543.87 — 32.39 — 334+23.78 — Exc. 737.6 Emb. 0 — Cut 865 S.M. 125 Fill 0

2542.88 — 33.39 — 334+00 — Exc. 888.9 Emb. 0 — Cut 810 Fill 0 S.M. 12.5

2499.10 — 05.96 — 340+50 — Exc. 0 Emb. 261 — Cut 0 Fill 96 S.M. 60 S.B. 104

2500.46 — 08.07 — 340+00 — Exc. 0 Emb. 345 — Cut 0 Fill 186 S.M. 60 S.B. 104

2505.72 — 10.18 — 339+50 — Exc. 0 Emb. 253 — Cut 0 Fill 187 S.M. 60 S.B. 104

2508.74 — 12.29 — 339+00 — Exc. 0 Emb. 254 — Cut 0 Fill 86 S.M. 60 S.B. 104

2511.31 — 14.40 — 338+50 — Exc. 0 Emb. 236 — Cut 0 Waste 13 Fill 133 S.M. 60 S.B. 87

2512.07 — 16.51 — 338+00 — Exc. 52 Emb. 84 — Cut 0 Waste 15 Fill 71 S.M. 58 S.B. 72

2517.20 — 18.62 — 337+50 — Exc. 821 Emb. 2 — Cut 56 Waste 56 Fill 2 S.M. 59 S.B. 101

2533.87 — 20.73 — 337+00 — Exc. 1390 Emb. 0 — Cut 831 Waste 831 Fill 0 S.M. 58

2523.57 — 22.84 — 336+50 — Exc. 1219 Emb. 0 — Cut 670 S.M. 58 Fill 0 S.B. 110 S.M. 163

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1005 RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5861.23

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	S-01440(1)	1956	24	25

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 — 2/56 — W.L.W. — E.M.C. — E.M.C. — S.E.C.

Exc. 43 **Emb.** 8 — 346+00 — 2483.15 — 85.08 — **Cut** 17 **Fill** 3 S.M. 60 S.B. 59

Exc. 108 **Emb.** 6 — 345+50 — 2484.90 — 86.35 — **Cut** 20 **Fill** 3 S.M. 60 S.B. 30

Exc. 150 **Emb** 54 — 345+00 — 2486.82 — 87.81 — **Cut** 88 **Fill** 3 S.M. 58 S.B. 36

Exc. 126 **Emb.** 119 — 344+50 — 2488.35 — 89.25 — **Cut** 74 **Fill** 55 S.M. 60 S.B. 103

Exc. 113 **Emb.** 133 — 344+00 — 2489.99 — 91.28 — **Cut** 62 **Fill** 73 S.M. 60 S.B. 103

Exc. 80 **Emb** 108 — 343+50 — 2491.79 — 93.30 — **Cut** 60 **Fill** 41 S.M. 60 S.B. 103

Exc. 49 **Emb** 144 — 343+00 — 2493.49 — 95.41 — **Cut** 26 **Fill** 70 S.M. 60 S.B. 105

Exc. 25 **Emb.** 146 — 342+50 — 2494.92 — 97.52 — **Cut** 27 **Fill** 86 S.M. 60 S.B. 103

Exc. 37 **Emb.** 79 — 342+00 — 2496.38 — 99.63 — **Cut** 0 **Fill** 72 S.M. 60 S.B. 103

Exc. 37 **Emb.** 55 — 341+50 — 2495.30 — 01.74 — **Cut** 40 **Fill** 13 S.M. 60 S.B. 103

Exc. 0 **Emb.** 131 — 341+00 — 2498.42 — 03.85 — **Cut** 0 **Fill** 46 S.M. 60 S.B. 103

Exc. 0 **Emb.** 922 — 350+50 — 2467.32 — 80.50 — **Cut** 0 **Fill** 634 S.M. 60 S.B. 103

Exc. 0 **Emb** 271 — 350+12.08 — 2469.76 — 80.63 — **Cut** 0 **Fill** 619 S.M. 60 S.B. 103

Exc. 0 **Emb.** 359 — 350+00 — 2470.92 — 80.75 — **Cut** 0 **Fill** 594 S.M. 60 S.B. 103

Exc. 0 **Emb.** 675 — 349+50 — 2472.84 — 81.00 — **Cut** 0 **Fill** 442 S.M. 60 S.B. 103

Exc. 0 **Emb** 488 — 349+00 — 2474.23 — 81.25 — **Cut** 0 **Fill** 287 S.M. 60 S.B. 103

Exc. 0 **Emb.** 333 — 348+50 — 2475.58 — 81.50 — **Cut** 0 **Fill** 246 S.M. 60 S.B. 103

Exc. 0 **Emb** 125 — 348+00 — 2477.19 — 81.84 — **Cut** 0 **Fill** 120 S.M. 60 S.B. 103

Exc. 9 **Emb.** 17 — 347+50 — 2478.78 — 82.37 — **Cut** 0 **Fill** 15 S.M. 60 S.B. 87

Exc. 26 **Emb.** 7 — 347+00 — 2480.32 — 83.09 — **Cut** 10 **Fill** 3 S.M. 55 S.B. 50

Exc. 32 **Emb.** 7 — 346+50 — 2481.87 — 83.99 — **Cut** 18 **Fill** 4 S.M. 57 S.B. 20

Exc. 0 **Emb.** 2010 — 353+50 — 2459.59 — 79.00 — **Cut** 0 **Fill** 1117 S.M. 59 S.B. 105

Exc. 0 **Emb** 1816 — 353+00 — 2460.28 — 79.25 — **Cut** 0 **Fill** 1054 S.M. 59 S.B. 105

Exc. 0 **Emb** 1520 — 352+50 — 2462.02 — 79.50 — **Cut** 0 **Fill** 907 S.M. 59 S.B. 105

Exc. 0 **Emb** 497 — 352+00 — 2464.77 — 79.75 — **Cut** 0 **Fill** 735 S.M. 59 S.B. 105

Exc. 0 **Emb.** 745 — 351+81.48 — 2464.23 — 79.84 — **Cut** 0 **Fill** 714 S.M. 59 S.B. 103

Exc. 0 **Emb.** 1050 — 351+50 — 2467.22 — 80.00 — **Cut** 0 **Fill** 564 S.M. 59 S.B. 105

Exc. 0 **Emb.** 1170 — 351+00 — 2466.72 — 80.25 — **Cut** 0 **Fill** 570 S.M. 59 S.B. 103

PLATE 3 CROSS SECTION C. P. R. & R. E. STANDARD
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

5861.24

13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S-0144(1)	1956	25	27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				

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

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

BY S. S. A. T. A. K. A. 8/31/56

357+50 — 2473.70 — 77.00

Exc. 1152
Emb. 6

Cut 620
Fill 0
S.M. 45
S.B. 94

357+00 — 2474.85 — 77.25

Exc. 1010
Emb. 24

Cut 624
Fill 5
S.M. 58
S.B. 90

356+50 — 2474.85 — 77.50

Exc. 769
Emb. 40

Cut 467
Fill 21
S.M. 58
S.B. 115

356+00 — 2474.58 — 77.75

Exc. 350
Emb. 47

Cut 364
Fill 22
S.M. 47
S.B. 94

355+50 — 2471.46 — 78.00

Exc. 13
Emb. 486

Cut 14
Fill 29
S.M. 60
S.B. 103

355+00 — 2466.80 — 78.25

Exc. 0
Emb. 1107

Cut 0
Fill 649
S.M. 60
S.B. 103

354+50 — 2464.89 — 78.50

Exc. 0
Emb. 1579

Cut 0
Fill 600
S.M. 60
S.B. 103

354+00 — 2459.59 — 78.57

Exc. 0
Emb. 1966

Cut 0
Fill 1006
S.M. 60
S.B. 103

361+00 — 2477.78 — 75.00

Exc. 866
Emb. 0

Cut 369
Fill 0
S.M. 58
S.B. 105

360+50 — 2477.71 — 75.34

Exc. 312
Emb. 0

Cut 566
Fill 0
S.M. 58
S.B. 117

360+35.82 ~Ahead EQ= 32.54 Plus
360+68.36 ~Back

Exc.
Emb.

Cut 620
Fill 0
S.M. 58
S.B. 105

360+50 — 2477.52 — 75.50

Exc. 442
Emb. 0

Cut 680
Fill 0
S.M. 58
S.B. 117

360+00 — 2477.26 — 75.75

Exc. 1336
Emb. 0

Cut 763
Fill 0
S.M. 58
S.B. 117

359+50 — 2476.83 — 76.00

Exc. 1457
Emb. 0

Cut 810
Fill 0
S.M. 55
S.B. 105

359+00 — 2476.15 — 76.25

Exc. 1481
Emb. 0

Cut 789
Fill 0
S.M. 55
S.B. 105

358+50 — 2475.25 — 76.50

Exc. 1436
Emb. 0

Cut 762
Fill 0
S.B. 55
S.M. 105

358+00 — 2473.91 — 76.75

Exc. 1348
Emb. 0

Cut 694
Fill 0
S.M. 38
S.B. 82

357+50 — 2471.16 — 77.00

Exc. 1217
Emb. 0

Cut 0
Fill 1000
S.M. 60
S.B. 103

363+00 — 2477.16 — 74.00

Exc. 788
Emb. 0

Cut 481
Fill 0
S.M. 55
S.B. 105

362+50 — 2477.39 — 74.34

Exc. 481
Emb. 0

Cut 376
Fill 0
S.M. 55
S.B. 105

362+00 — 2477.53 — 74.59

Exc. 149
Emb. 0

Cut 144
Fill 0
S.M. 54
S.B. 87

361+80 — 2477.71 — 74.60

Exc. 331
Emb. 0

Cut 257
Fill 0
S.M. 54
S.B. 85

361+50 — 2477.83 — 74.84

Exc. 655
Emb. 0

Cut 338
Fill 0
S.M. 58
S.B. 110

FILL 0
S.M. 102

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1005 RAG PAPER—MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

58 61.25

14

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	3-0144(1)	1957	26	27

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

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

Exc = 1282
Emb = 0
C = 668
F = 0
SH 58
SB 110
367+00
2673.75 E.P.
60.44 E.P.

Exc = 1345
Emb = 0
C = 716
F = 0
SH 58
SB 110
366+50
2674.71 E.P.
70.50 E.P.

Exc = 1323
Emb = 0
C = 737
F = 0
SH 55
SB 110
366+00
2675.25 E.P.
71.41 E.P.

Exc = 1141
Emb = 0
C = 602
F = 0
SH 58
SB 110
365+50
2675.69 E.P.
72.18 E.P.

Exc = 480
Emb = 0
C = 540
F = 0
SH 58
SB 110
365+00
2675.92 E.P.
72.80 E.P.

Exc = 147
Emb = 0
Ditch Inv. = 68.8
C = 457
F = 0
SH 58
SB 110
364+74
2476.19 E.P.
73.08 E.P.

Exc = 214
Emb = 0
Ditch Inv. = 68.7
C = 424
F = 0
SH 58
SB 110
364+65
2476.19 E.P.
73.15 E.P.

Exc = 723
Emb = 0
Ditch Inv. = 68.6
C = 346
F = 0
SH 55
SB 105
364+50
2476.31 E.P.
73.27 E.P.

Exc = 810
Emb = 0
Ditch Inv. = 68.5
C = 440
F = 0
SH 55
SB 105
364+00
2476.58 E.P.
73.55 E.P.

Exc = 846
Emb = 0
Ditch Inv. = 68.1
C = 442
F = 0
SH 55
SB 105
363+50
2476.97 E.P.
73.84 E.P.

Exc = 91
Emb = 7
C = 48
F = 3
SH 30
373+50
2445.82 E.P.
42.7 E.P.

Exc = 124
Emb = 7
C = 50
F = 4
SH 40
373+00
2445.48 E.P.
45.2 E.P.

Exc = 289
Emb = 4
C = 84
F = 4
SH 55
372+50
2448.12 E.P.
48.1 E.P.

Exc = 478
Emb = 0
C = 228
F = 0
SH 50
SB 110
372+00 END OF PROJECT
2450.66 E.P.
50.73 E.P.

Exc = 465
Emb = 0
C = 288
F = 0
SH 55
SB 105
371+50
2453.32 E.P.
53.27 E.P.

Exc = 486
Emb = 0
C = 214
F = 0
SH 55
SB 105
371+00
2455.97 E.P.
55.66 E.P.

Exc = 544
Emb = 0
C = 257
F = 0
SH 55
SB 105
370+50
2458.74 E.P.
57.80 E.P.

Exc = 752
Emb = 0
C = 331
F = 0
SH 55
SB 105
370+00
2461.28 E.P.
59.98 E.P.

Exc = 938
Emb = 0
C = 481
F = 0
SH 58
SB 110
369+50
2463.96 E.P.
62.03 E.P.

Exc = 961
Emb = 0
C = 536
F = 0
SB 58
SB 110
369+00
2466.32 E.P.
63.73 E.P.

Exc = 1080
Emb = 0
C = 506
F = 0
SH 58
SB 110
368+50
2468.54 E.P.
65.37 E.P.

Exc = 2460
Emb = 0
C = 660
F = 0
SH 58
SB 110
368+00
2472.42 E.P.
68.87 E.P.

2413.69 E.P.
379+00
2416.79 E.P.
378+50
2419.86 E.P.
378+00
2422.63 E.P.
377+50
2425.15 E.P.
377+00
2427.69 E.P.
376+50
2430.24 E.P.
376+00
2432.84 E.P.
375+50
2435.23 E.P.
375+00
2437.91 E.P.
374+50
C =
F =
2440.38 E.P.
40.8 E.P.
374+00
C = 0
F = 0

Exc = 44
Emb = 3
C = Existing Pavement

PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
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