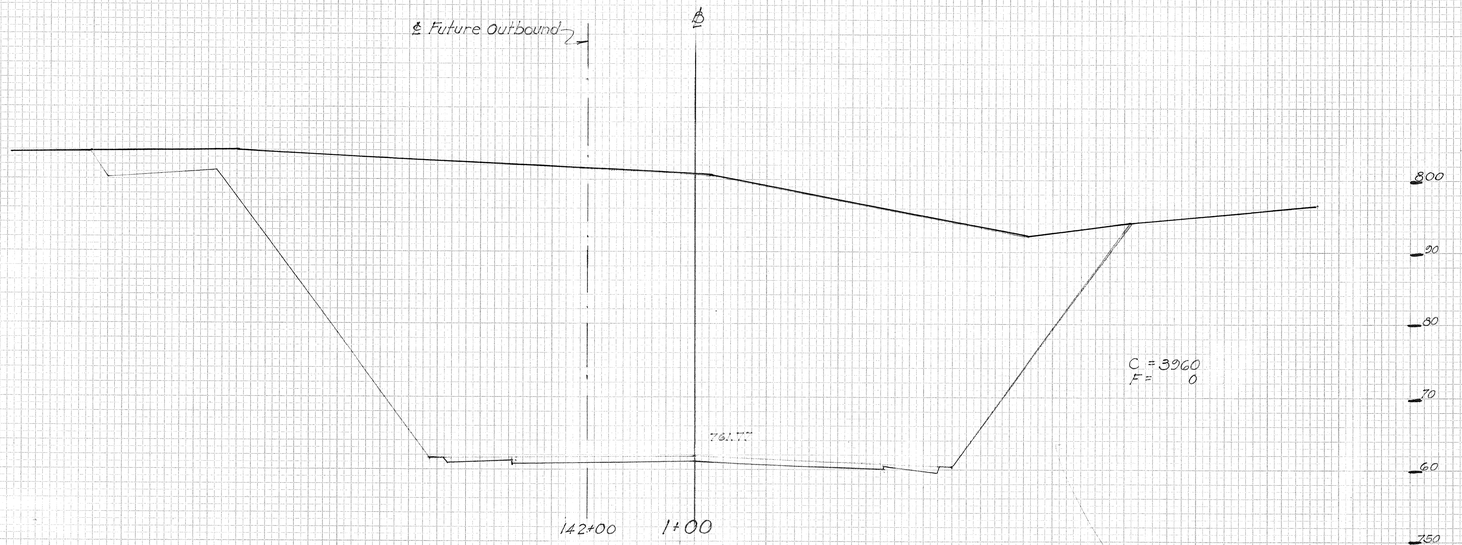
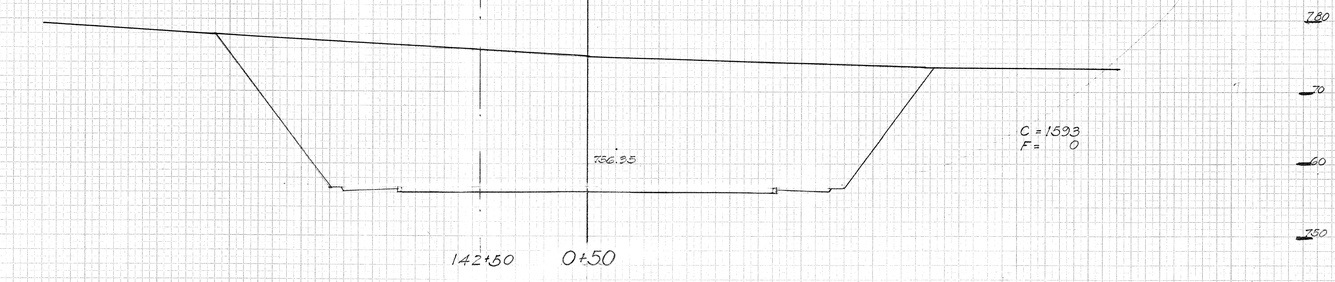
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw.	S210(3)	052	23B	87

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

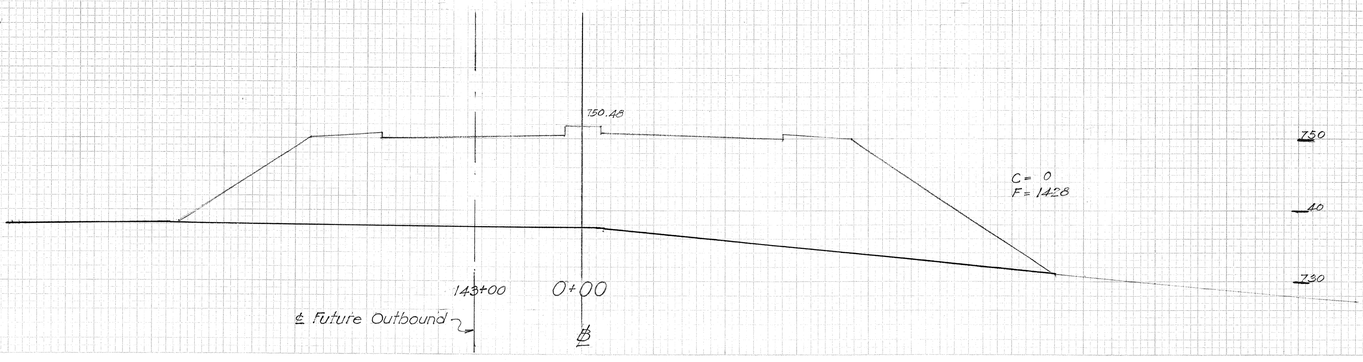
ORIGINAL SURVEY — DATE — BY — SURVEYED — PLOTTED — TRACED — CHECKED — NOTE BOOK — AREAS CHECKED — NO.



Exc. = 5141.7 c.y. ✓
Emb. = 0 c.y. ✓



Exc. = 1475.0 c.y. ✓
Emb. = 1322.2 c.y. ✓



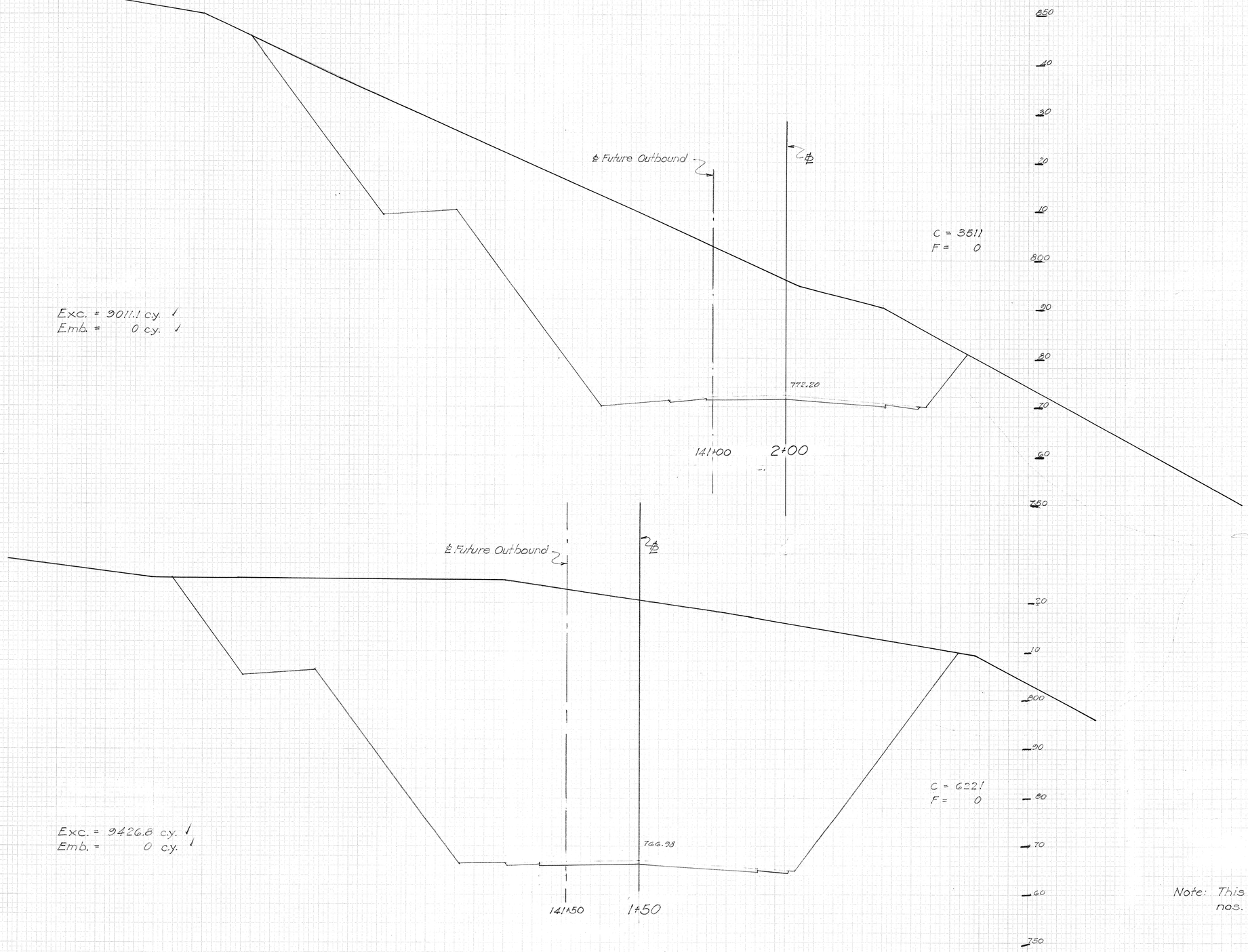
Note: This sheet supersedes sheet nos. 5488.23 & 23A.

PLATE 2-CROSS SECTION U.P.S.S.R.S. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 348-3 MADE IN U.S.A.

(1)

5488.23B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	S216(3)	1952	248	87



Showed be day lited
See plan.

Note: This sheet supersedes sheet nos. 5488.24 & .24A.

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	S210(3)	1052	25B	87

℄ Future Outbound

℄

782.63

140+00

3+00

Exc. = 0 c.y. ✓
Emb. = 7713.0 c.y. ✓

C = 0
F = 6178

80
70
60
750
40
30
20
10
700

℄ Future Outbound

℄

777.42

140+50

2+50

Exc. = 3250.9 c.y. ✓
Emb. = 1992.6 c.y. ✓

C = 0
F = 2152

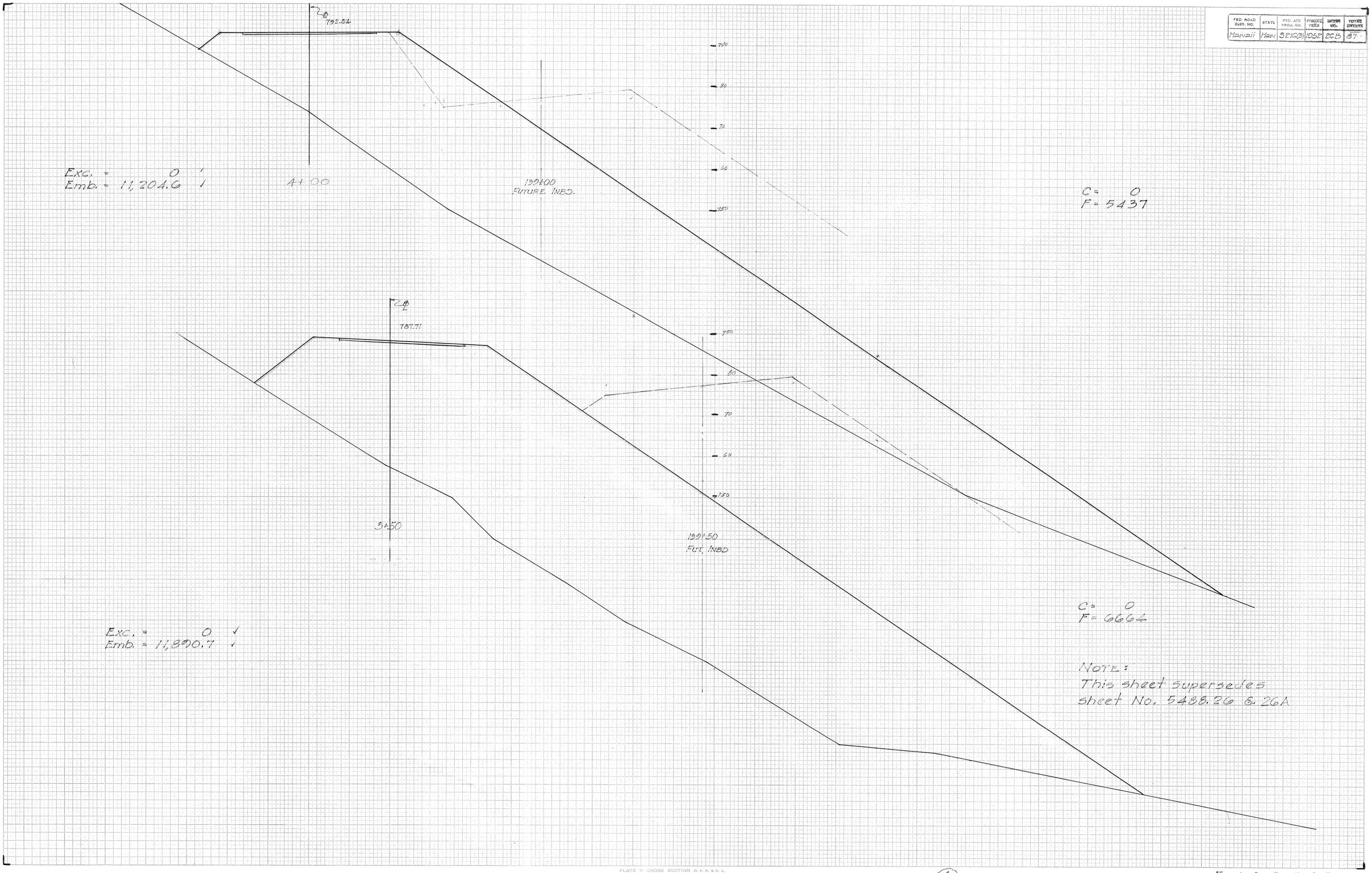
70
60
750
40
30
20
10
700

Note: This sheet supersedes sheet nos. 5488.25 & .25A.

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

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	S216(3)	1952	26B	87



NOTE:
This sheet supersedes sheet No. 5488.26 & 26A

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

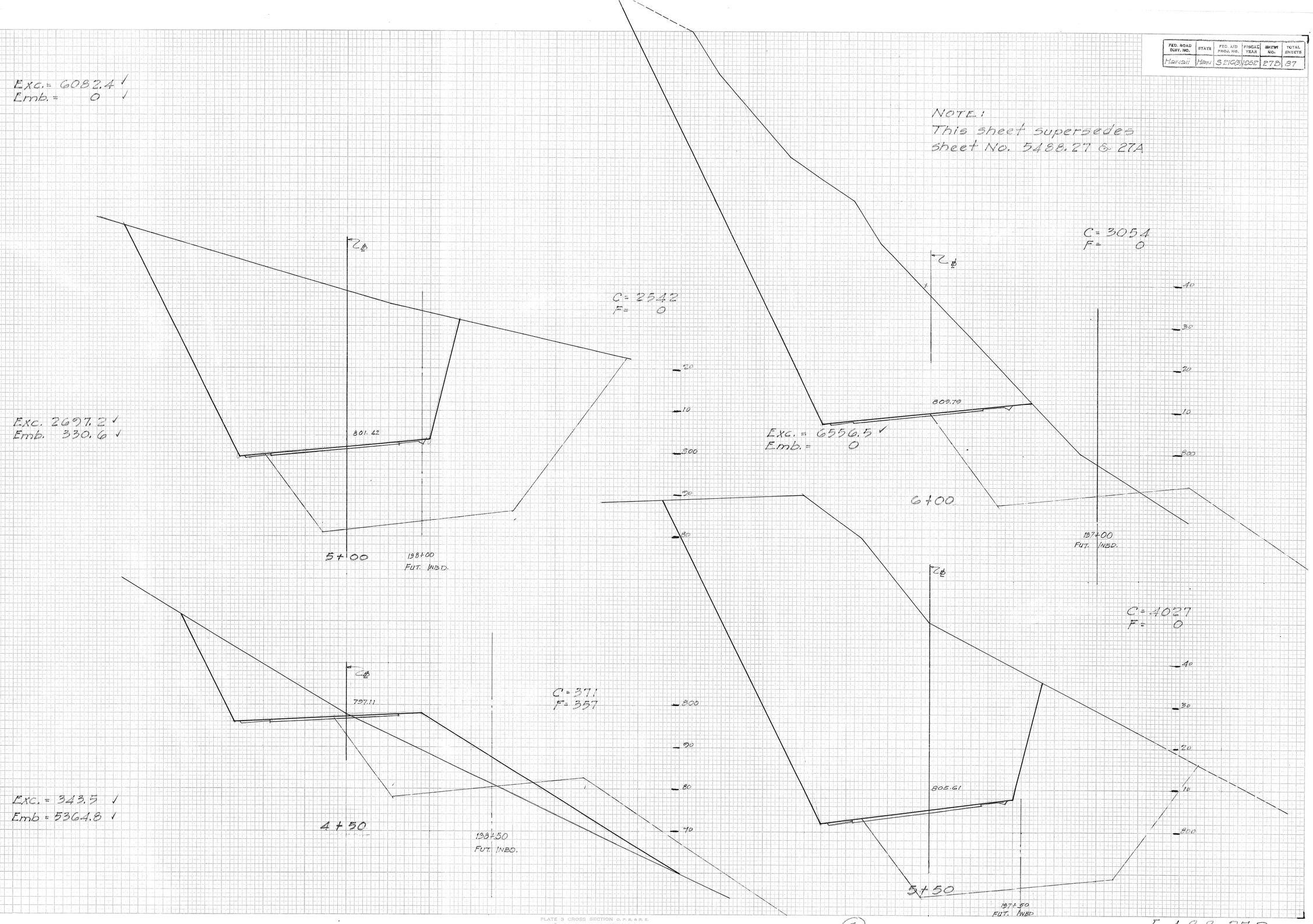
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

PLATE 3" CROSS SECTION O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

5488.26B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	S 216(3)	1952	27B	87

NOTE:
This sheet supersedes
sheet No. 5488.27 & 27A



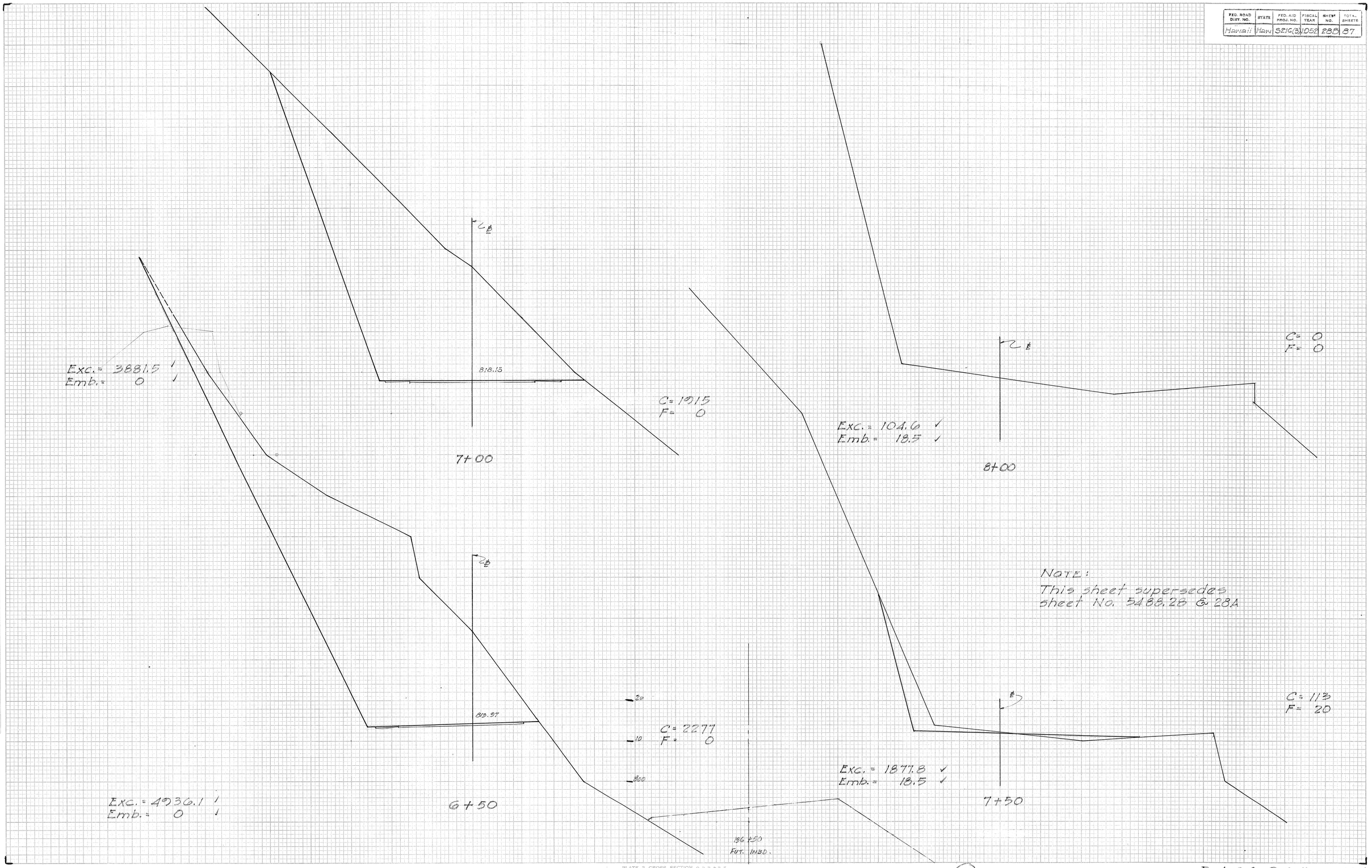
FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

PLATE 3 CROSS SECTION O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

5488.27B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw	S216(3)	1952	28B	87



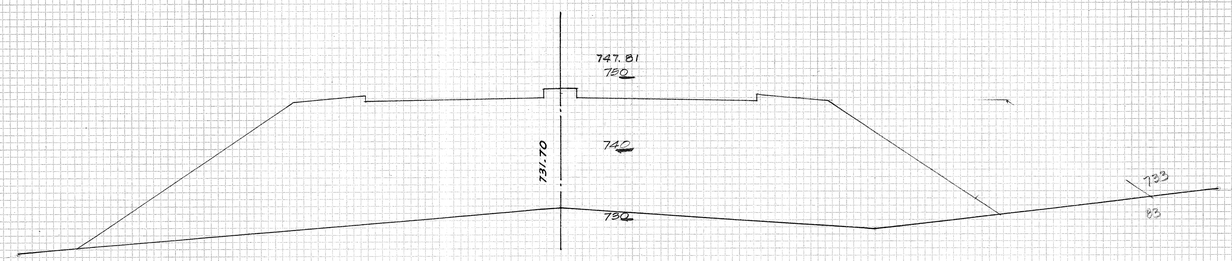
FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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

PLATE 3 CROSS SECTION O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

5488.28B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	29	87

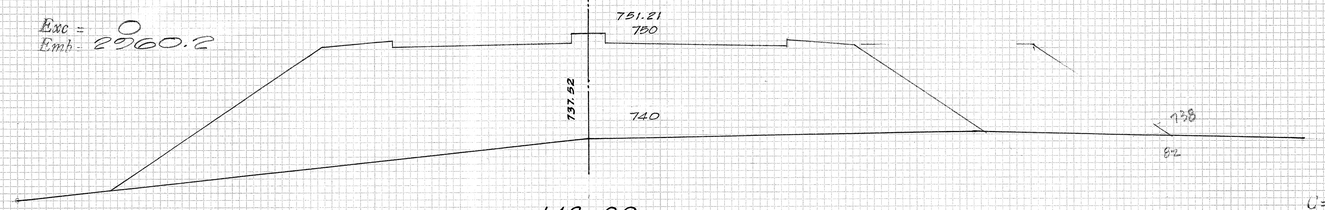


C = 0
F = 1769

143+50

70 60 50 40 30 20 10 10 20 30 40 50 60 70 80

Exc = 0
Emb = 2960.2

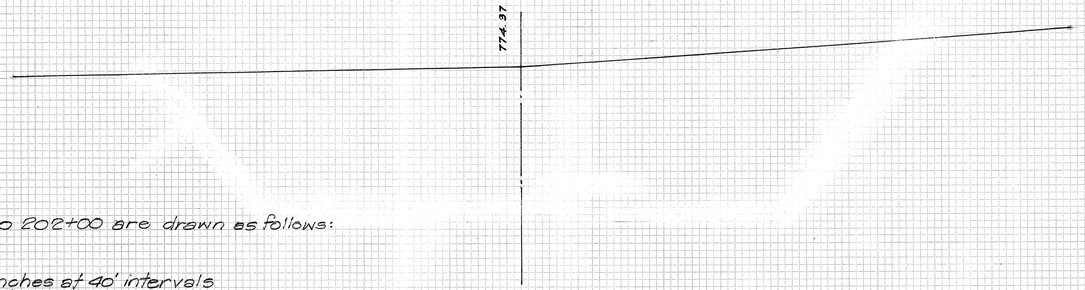


143+00

C = 0
F = 1428

BEGIN. OF PROJ. S216(3)

Exc =
Emb =



C =
F =

NOTE!

Slopes between 143+00 to 202+00 are drawn as follows:

Fill slope 1½:1

Cut Slope ¾:1 with 15' benches at 40' intervals only on high side. See Typical Sections, Sheet S488.2

The following sections have different cut slopes on high side only.

153+56.11 to 156+50 : Cut slope = ½:1 on lowest bench only.

180+04.98 to 183+04.98 : Cut slope = ½:1 on all high side sections

191+50 to 193+50 : Cut slope = ½:1 on two lower benches.

142+50

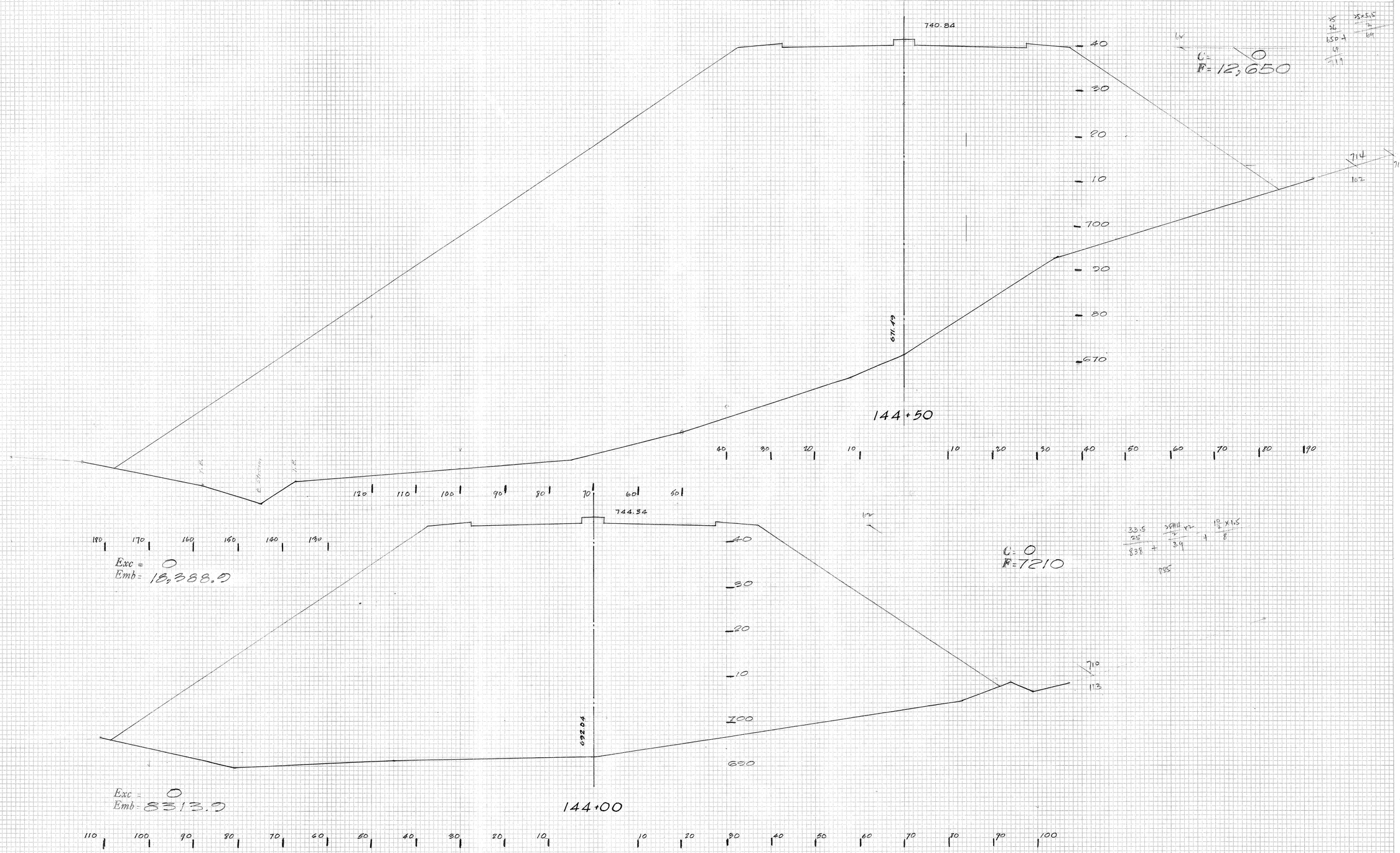
Note: This sheet superseded by Sheet No. 29-A

PLATE 3—CROSS SECTION U. P. R. & R. E.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 1000H-3

7

S488.29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	30	87



~~Note: This sheet superseded by sheet No. 30A~~

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.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 1000H-3

54SS.30

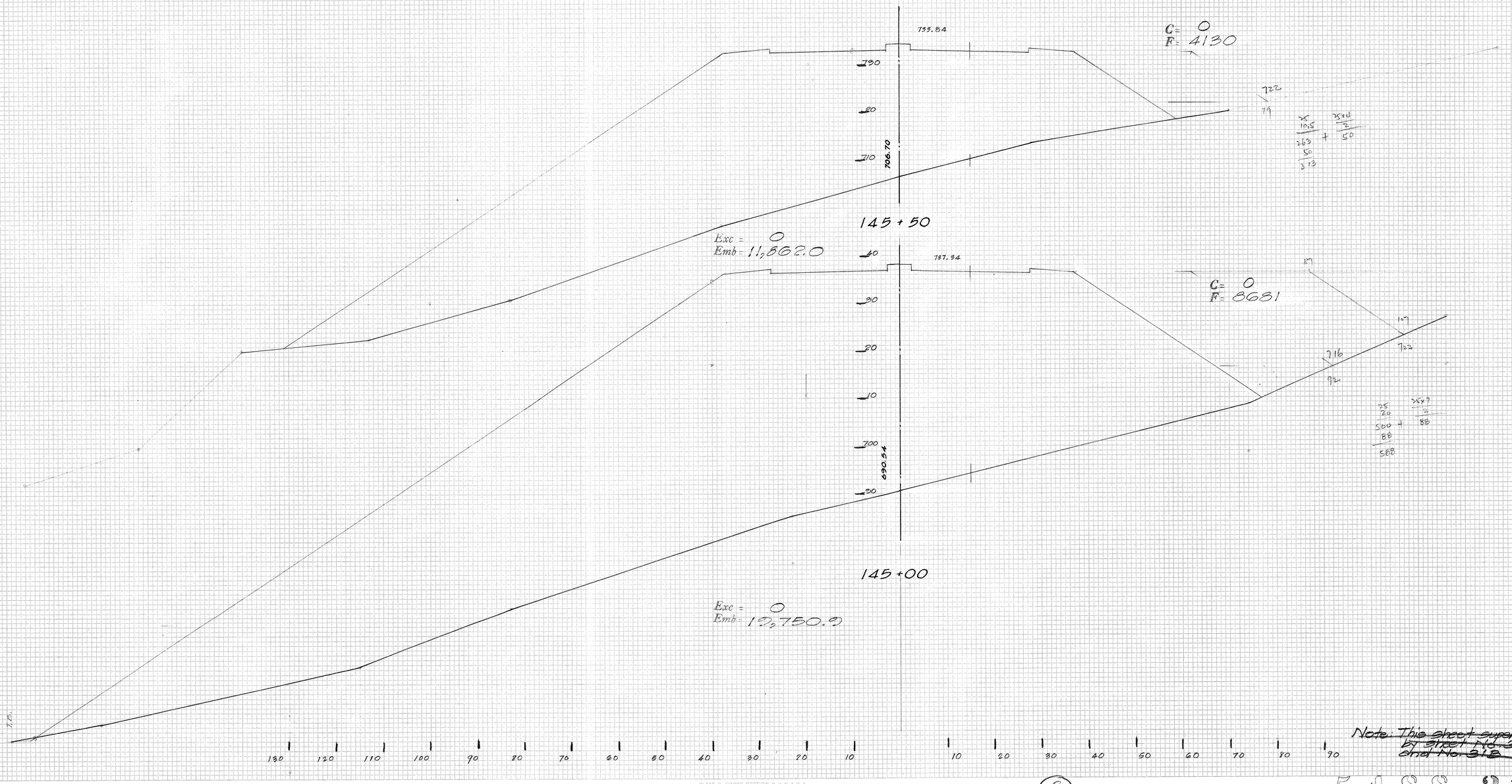
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(9)051	31	87	

FINAL SURVEY NOTES BOOK NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY NOTES BOOK NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



Note: This sheet superseded by sheet No. 31A and No. 31B

PLATE 3 - CROSS SECTION O. P. R. & R. E.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 100M-5

5488.31

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	32	87

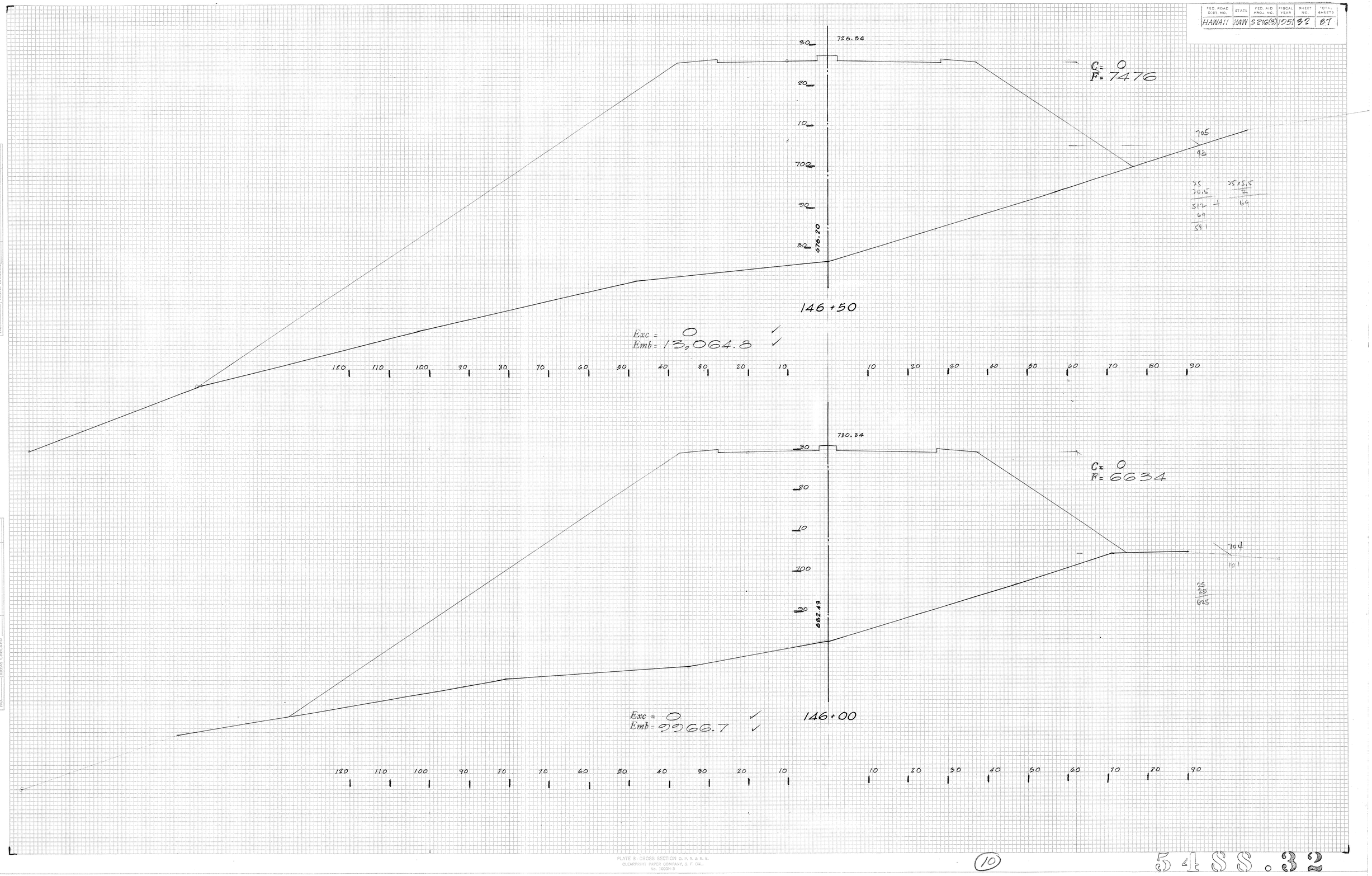
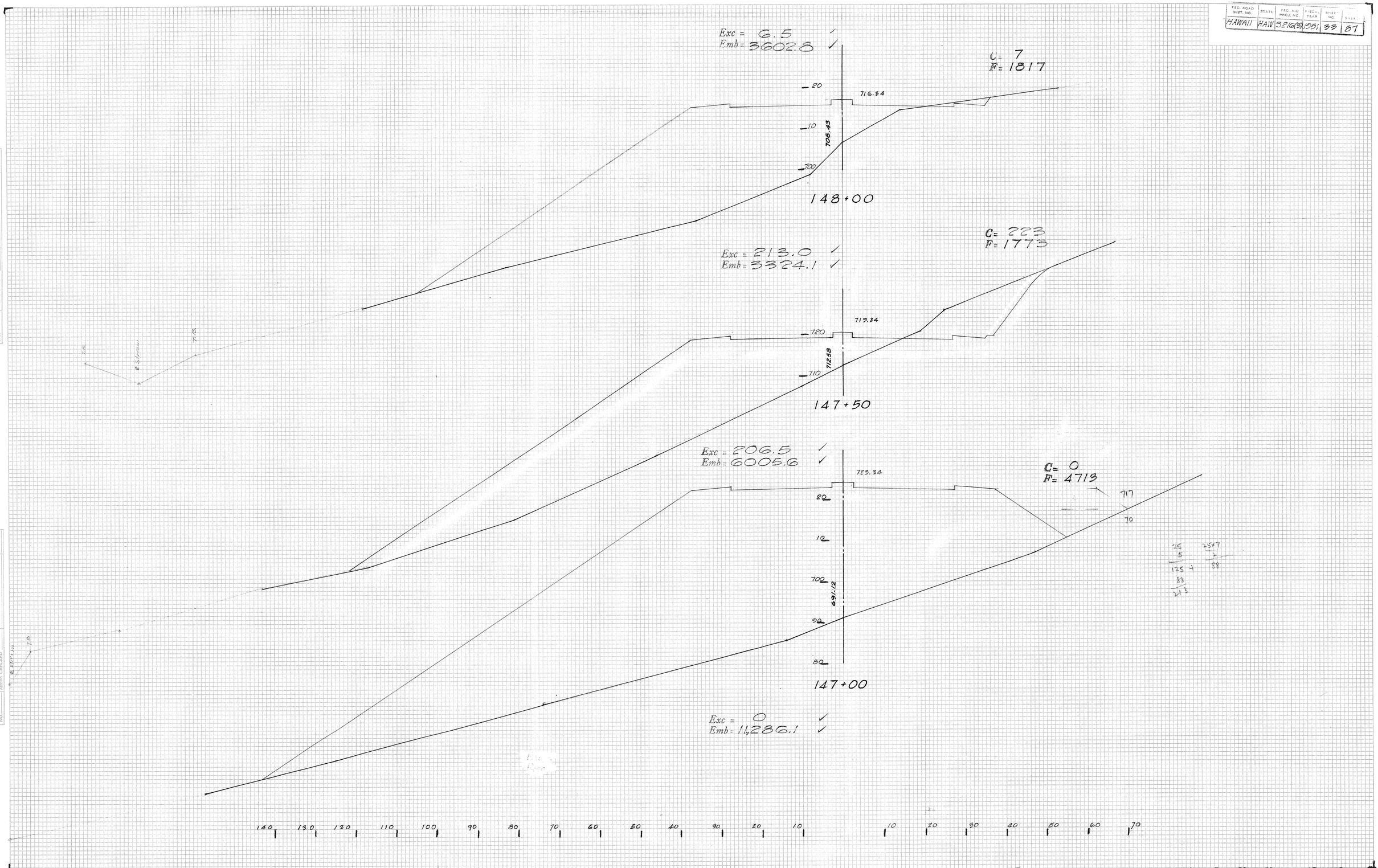


PLATE 3 - CROSS SECTION O. P. R. & R. E.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 1000H-3

54SS.32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	SHEET
HAWAII	HAW	S216(3)	1951	33	87



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

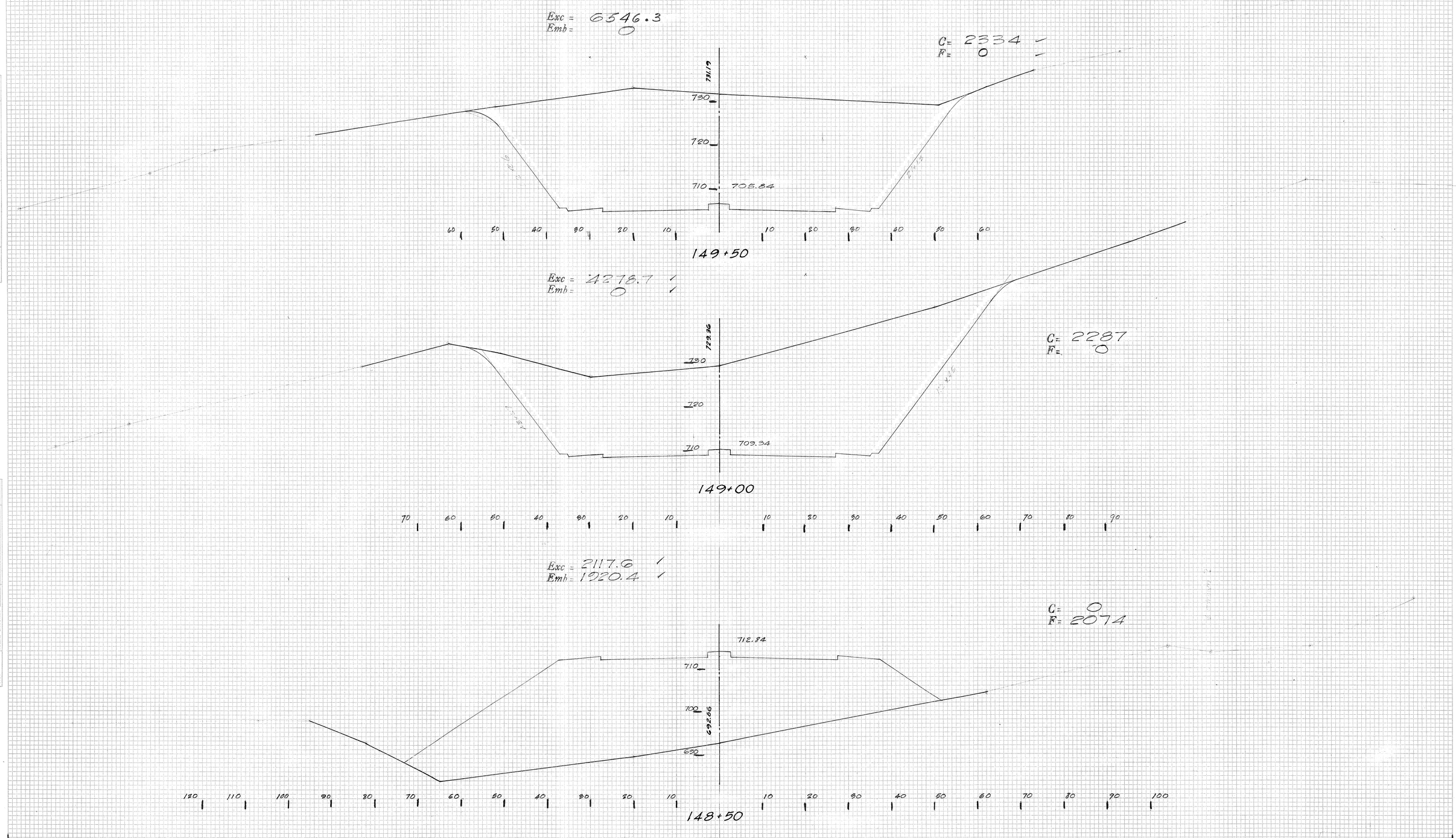
ORIGINAL SURVEY NOTE BOOK NO. SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED BY DATE

PLATE 3 - CROSS SECTION O. P. R. & R. E.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 1000H-3

(11)

54SS.33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	34	87



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

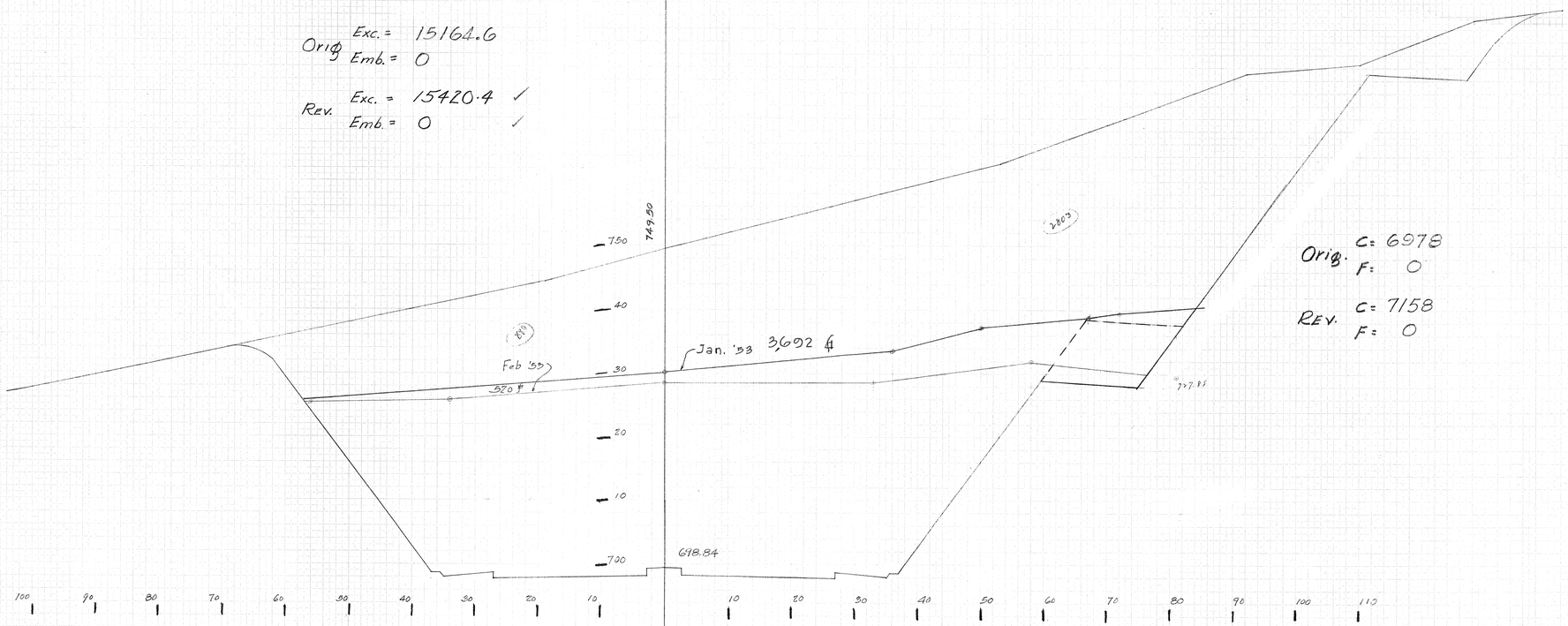
PLATE 3 - CROSS SECTION O. P. R. & R. E.
CLEARPRINT PAPER COMPANY, S. F. CAL.
No. 1000H-3

(12)

54SS.34

Orig. Exc. = 15164.6
Emb. = 0

Rev. Exc. = 15420.4 ✓
Emb. = 0 ✓



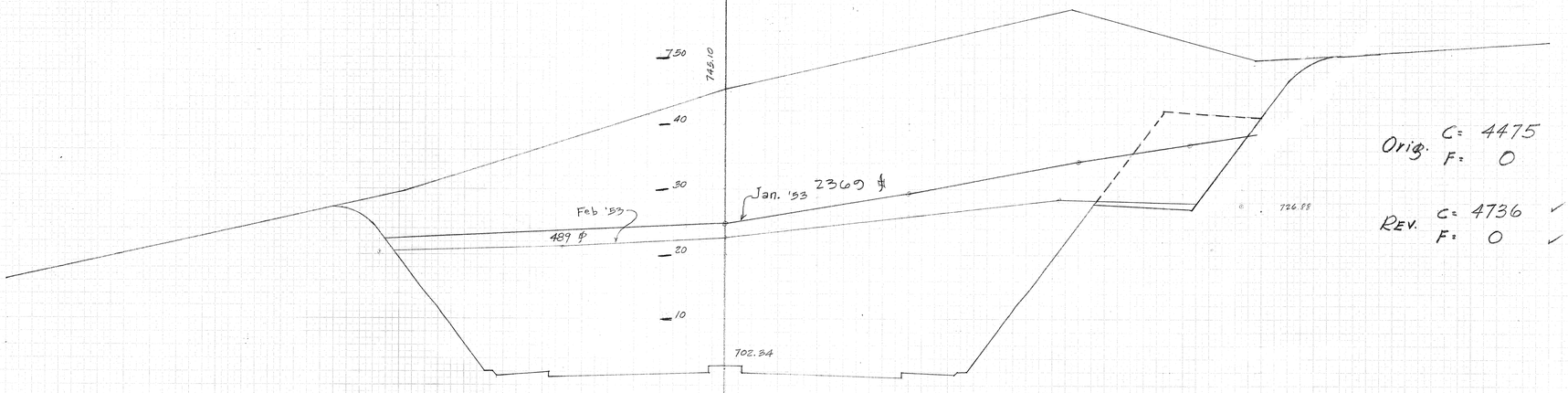
150+50

Orig. C= 6978
F= 0

Rev. C= 7158
F= 0

Orig. Exc. = 10604.6
Emb. = 0

Rev. Exc. = 11013.0 ✓
Emb. = 0 ✓



150+00

Orig. C= 4475
F= 0

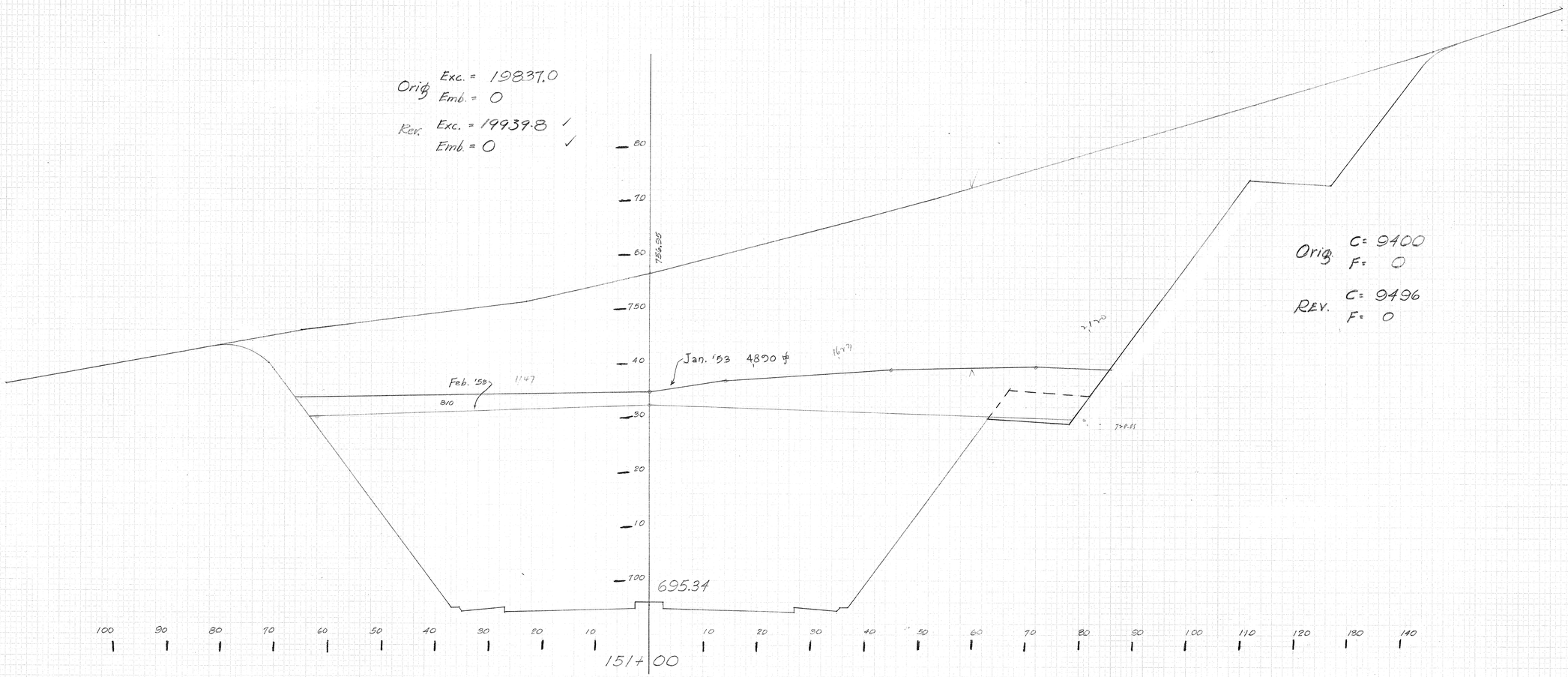
Rev. C= 4736 ✓
F= 0 ✓

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

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

(13)

5488.35A

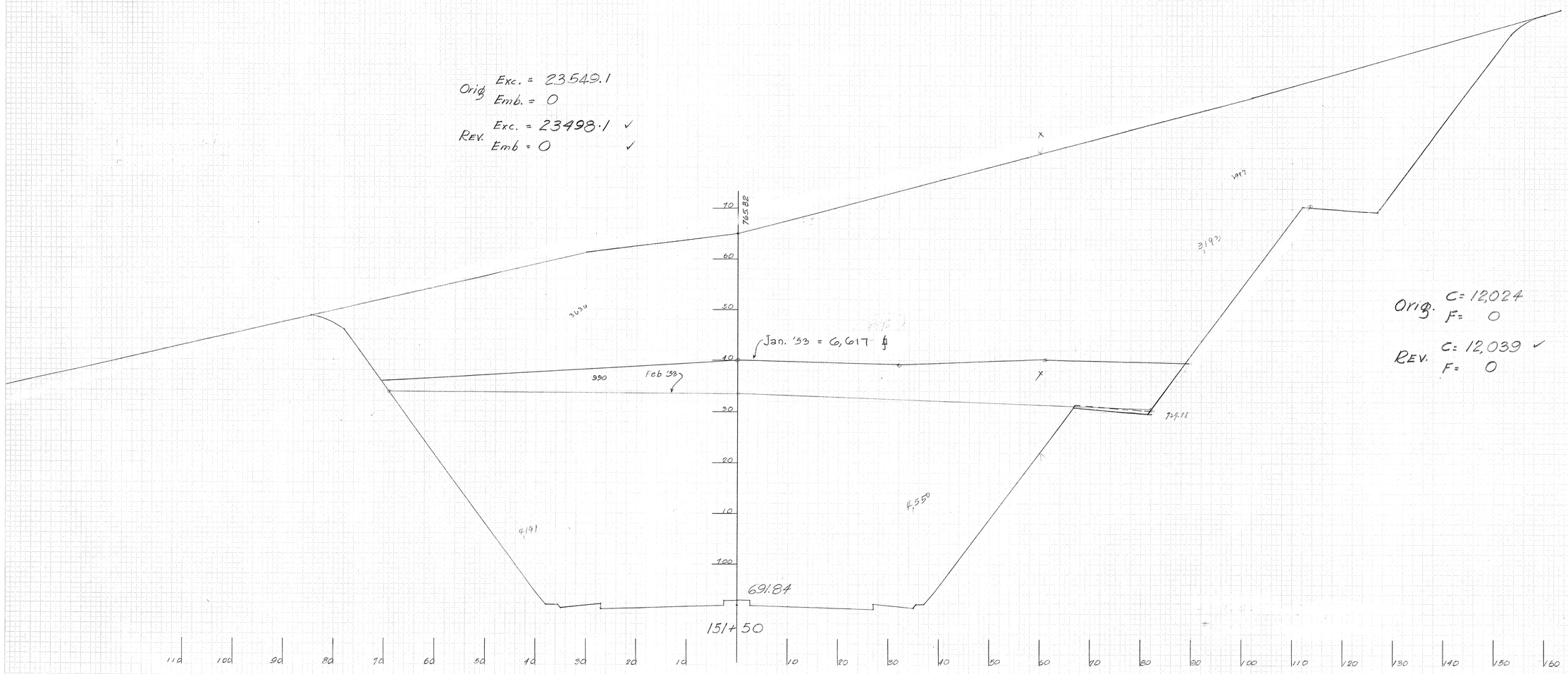


Orig. Exc. = 19837.0
Emb. = 0
Rev. Exc. = 19939.8
Emb. = 0
Orig. C= 9400
F= 0
REV. C= 9496
F= 0
Jan. '53 4890 ft
Feb. '58
810
756.95
695.34
151+00

5488.36 A

Orig. Exc. = 23549.1
Emb. = 0

Rev. Exc. = 23498.1 ✓
Emb = 0 ✓



Orig. C = 12,024
F = 0

Rev. C = 12,039 ✓
F = 0

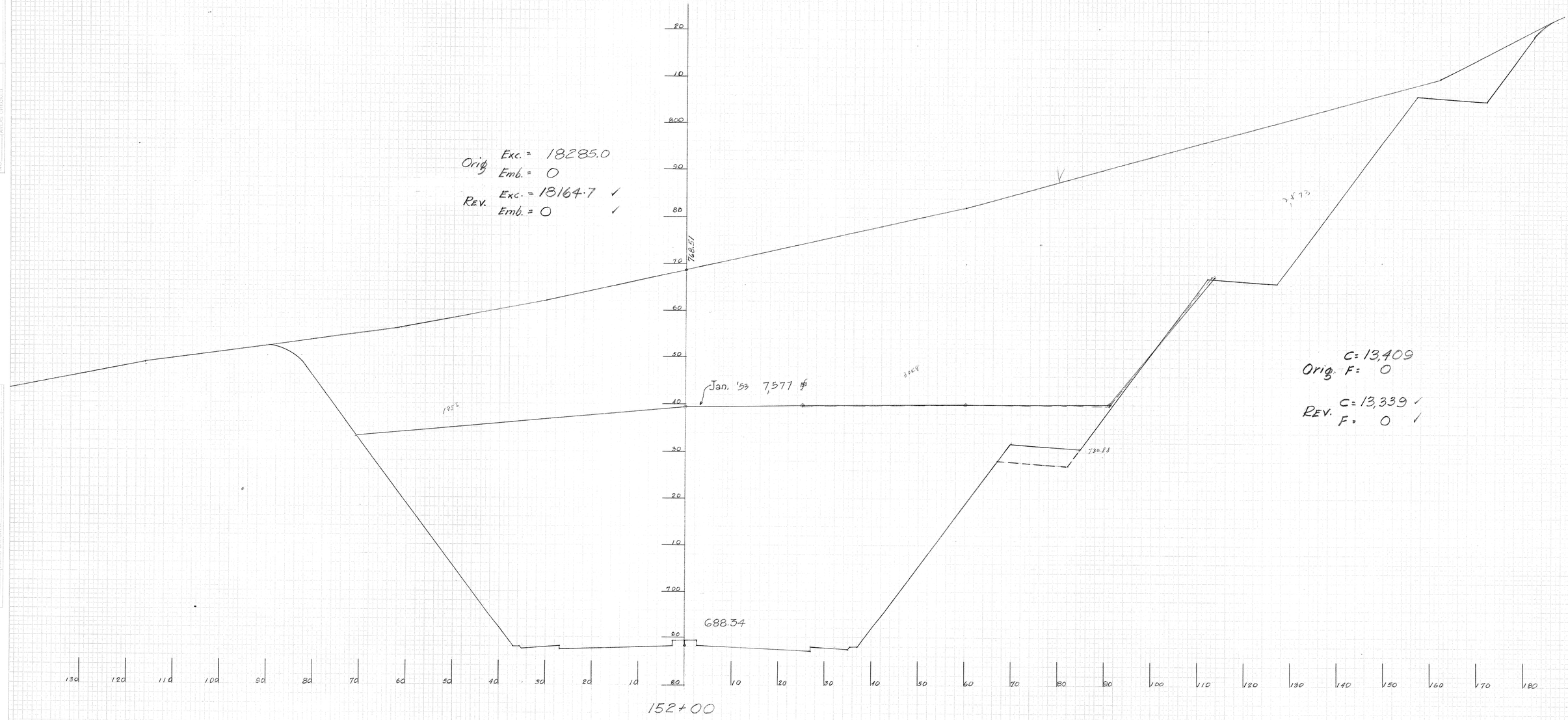
5488.37A

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

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

Orig. Exc. = 18285.0
Emb. = 0

Rev. Exc. = 18164.7 ✓
Emb. = 0 ✓



C = 13,409
Orig. F = 0

Rev. C = 13,339 ✓
F = 0 ✓

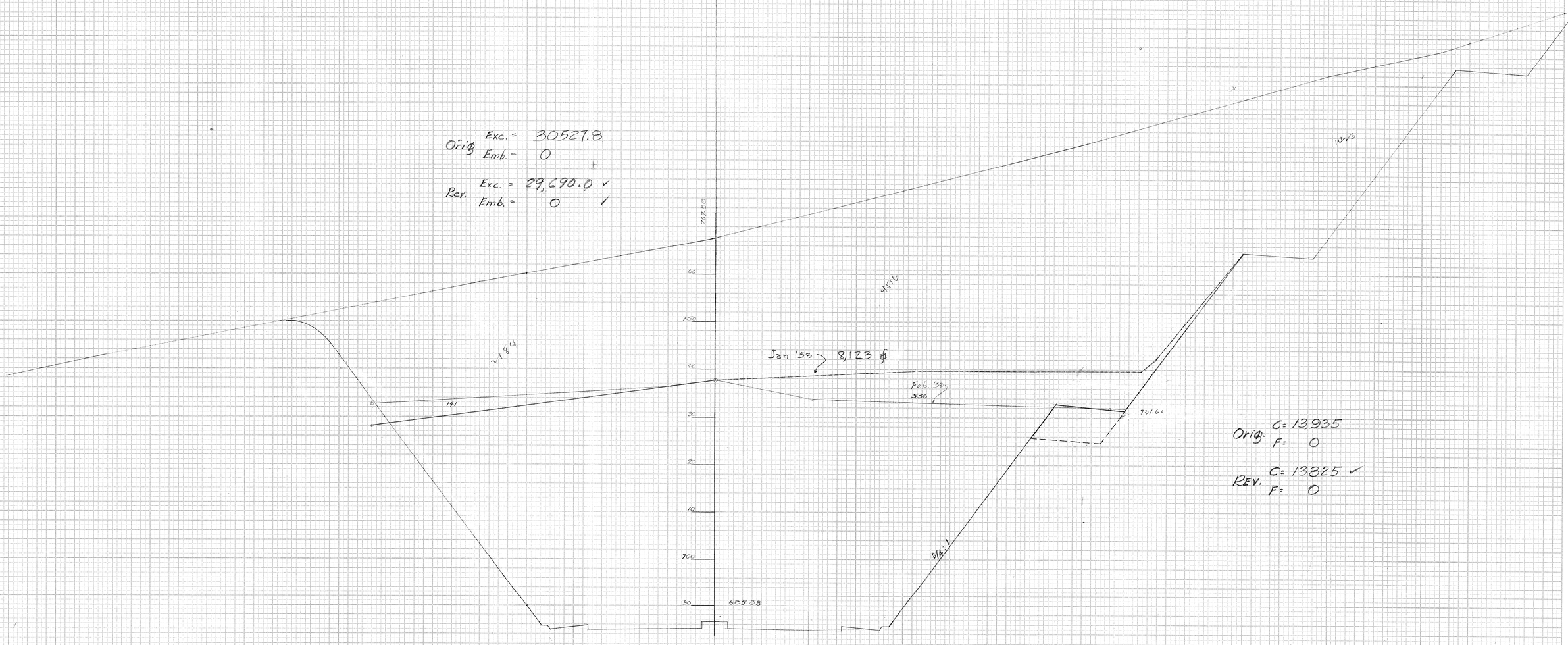
5488.38A

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

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

Orig. Exc. = 30527.8
Emb. = 0

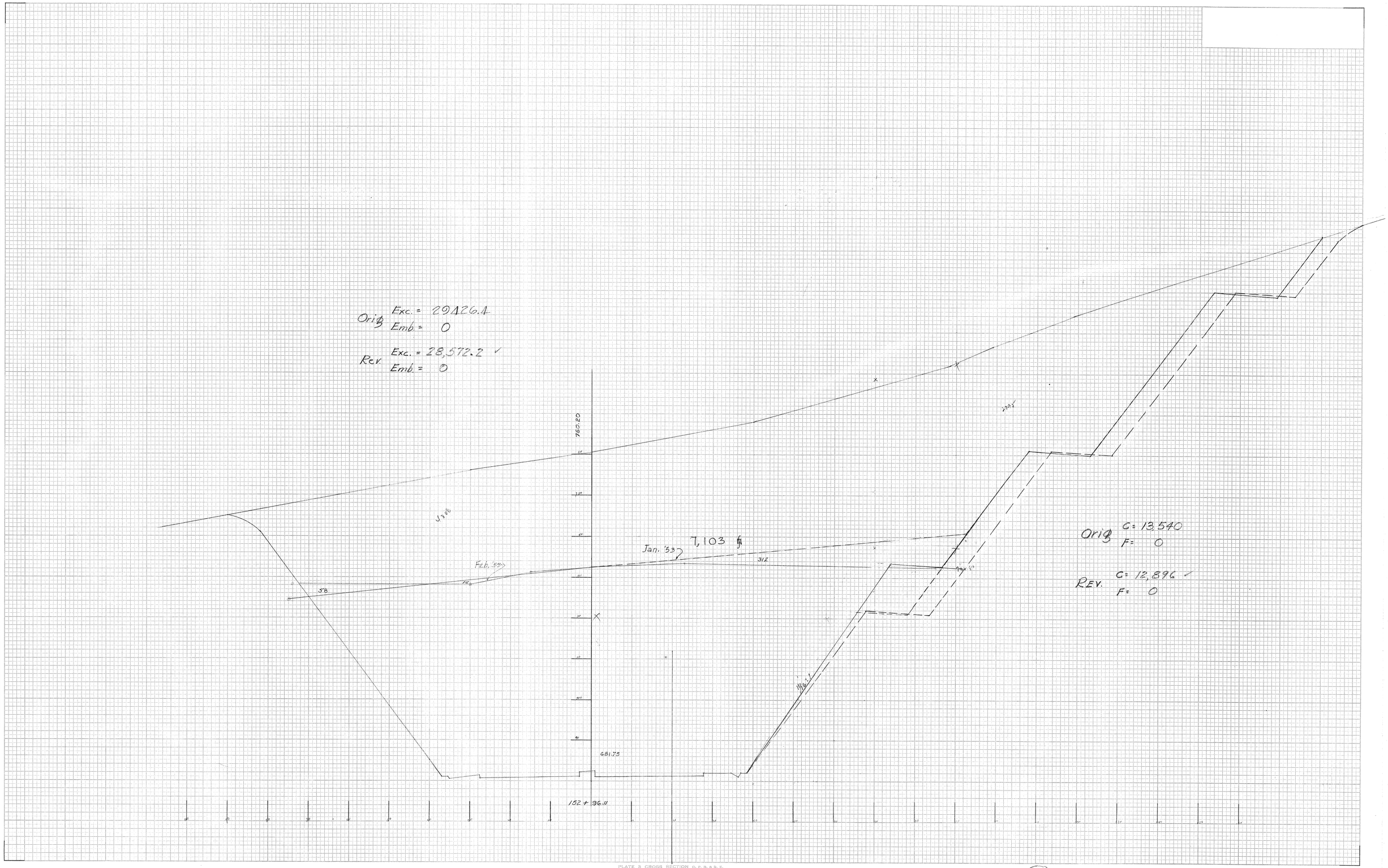
Rev. Exc. = 29,690.0 ✓
Emb. = 0 ✓



Orig. C = 13,935
F = 0

Rev. C = 13825 ✓
F = 0

152+36.11



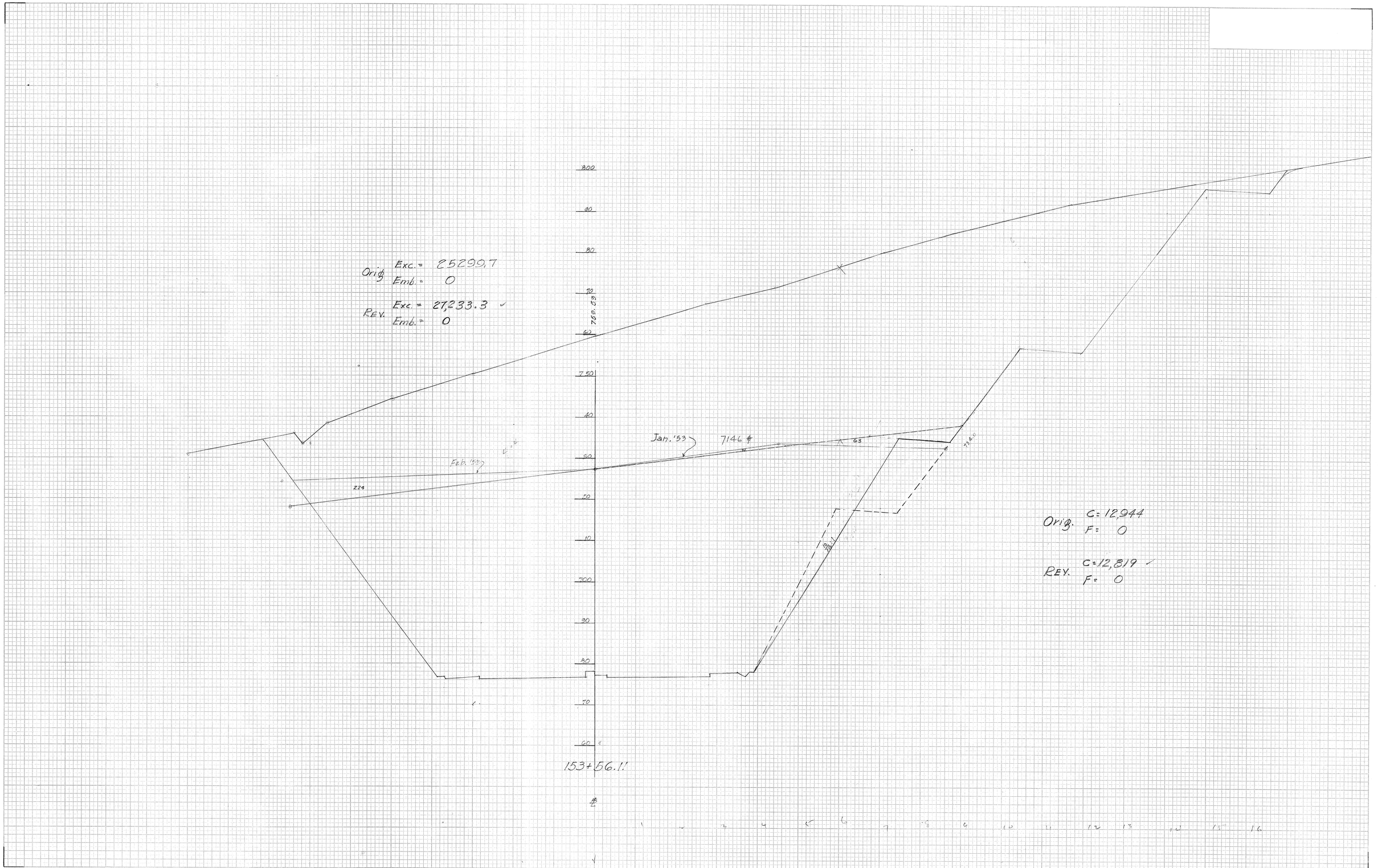
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

PLATE 3 CROSS SECTION O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

(18)

5488.40 A



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.
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CHARLES BRUNING COMPANY

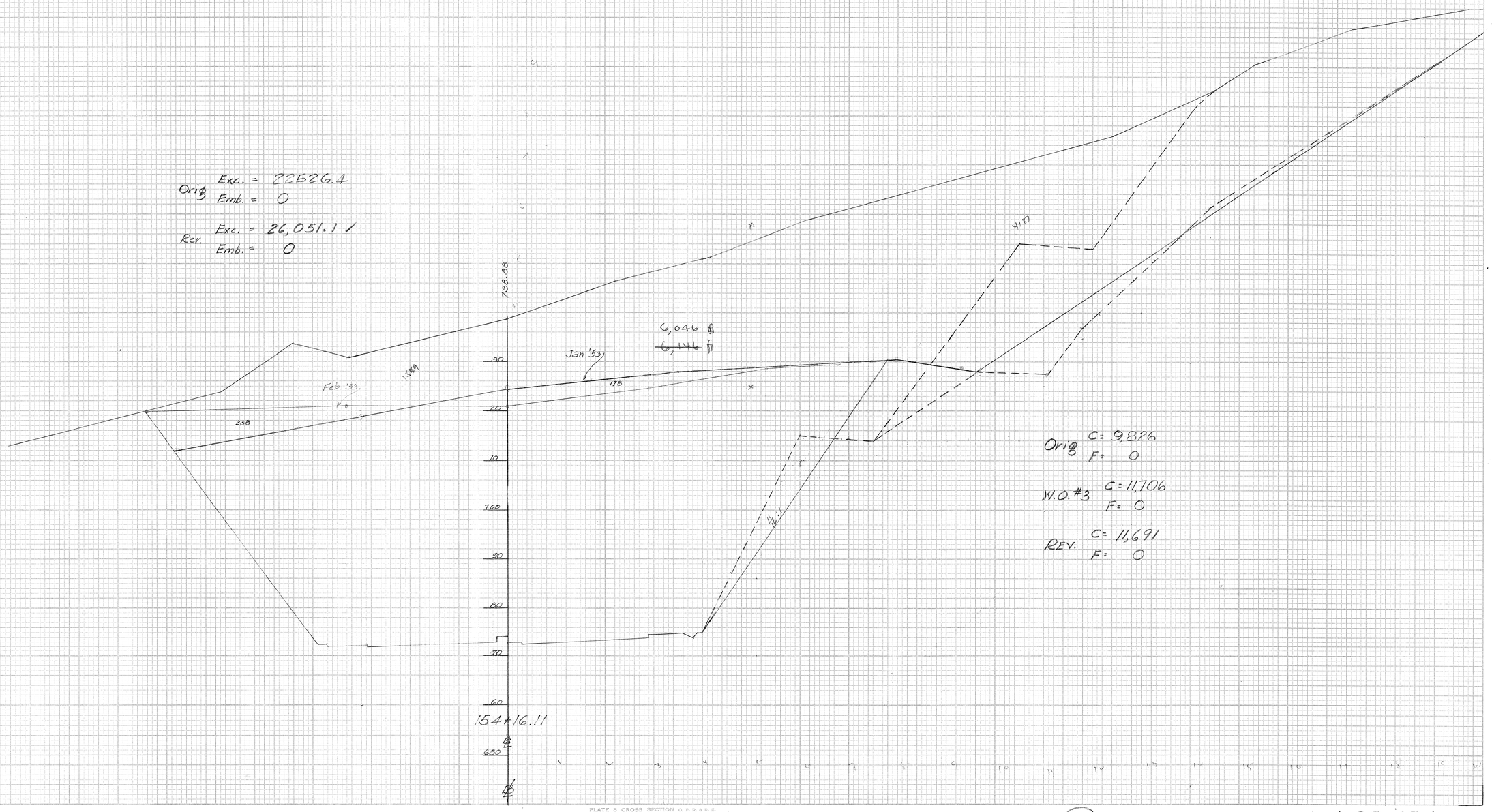
5488.41A

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

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

Orig. Exc. = 22526.4
Emb. = 0

Rev. Exc. = 26,051.1 ✓
Emb. = 0



Orig. C = 9,826
F = 0

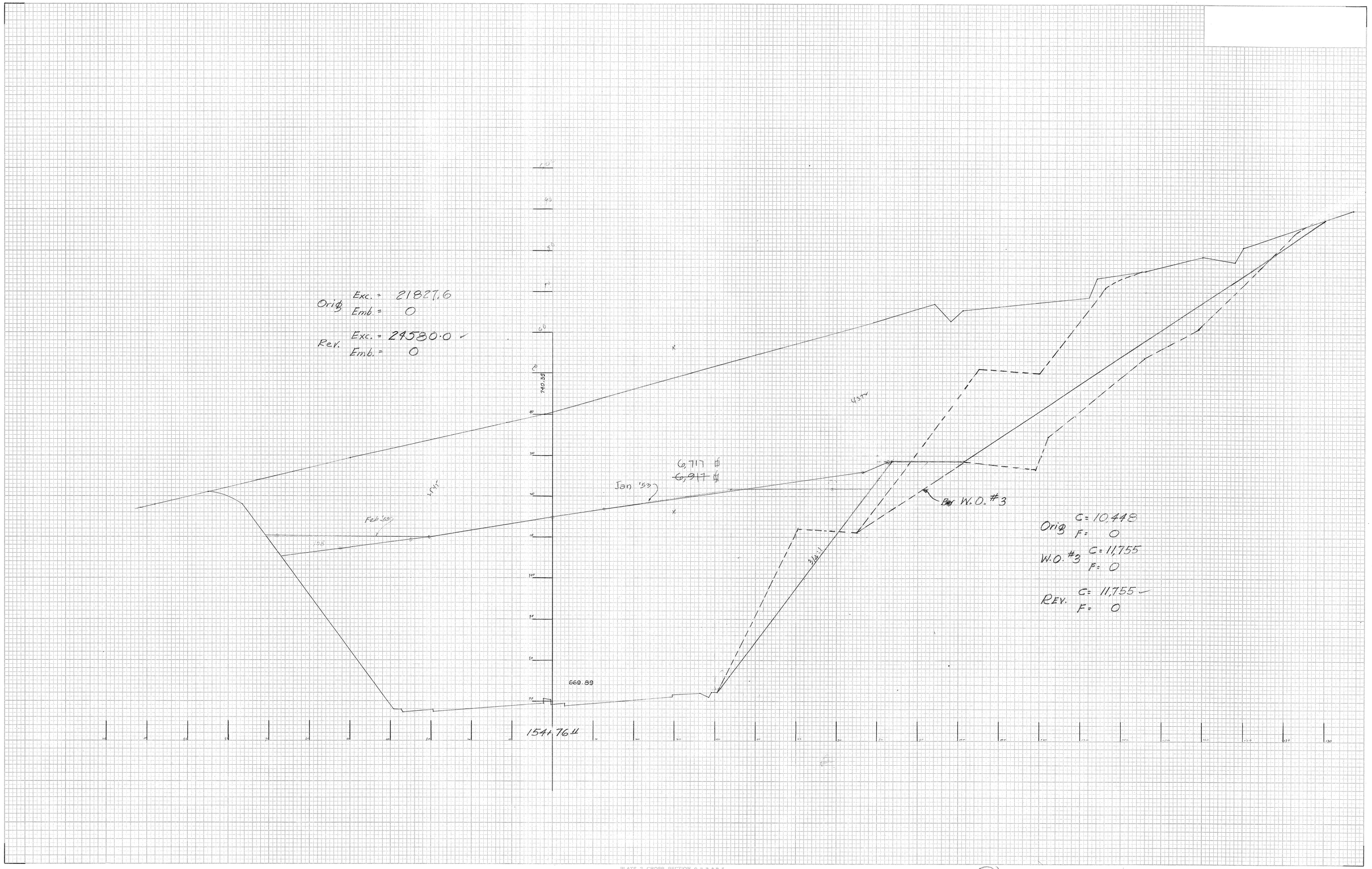
W.O. #3 C = 11,706
F = 0

REV. C = 11,691
F = 0

PLATE 2 CROSS SECTION O. F. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

(20)

5488.42-1



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.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

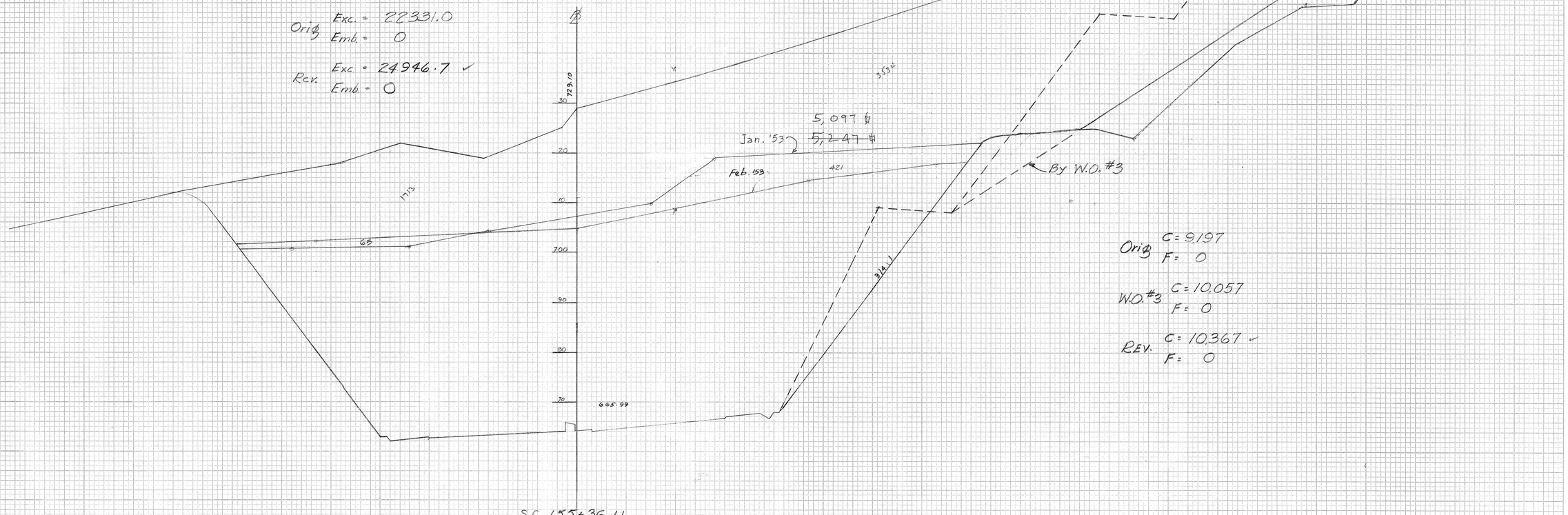
5488.43A

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

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

Orig. Exc. = 22331.0
Emb. = 0

Rev. Exc. = 24946.7 ✓
Emb. = 0



Orig. C = 9.197
F = 0

W.O. #3 C = 10.057
F = 0

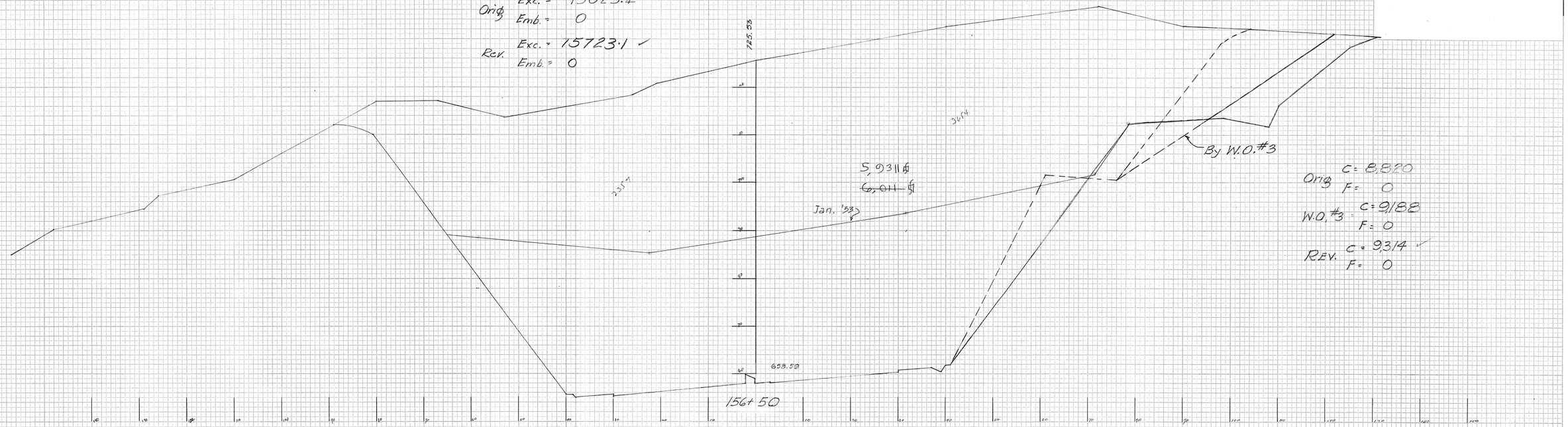
Rev. C = 10.367 ✓
F = 0

S.C. 155+36.11

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

Orig. Exc. = 15025.4
Emb. = 0

Rev. Exc. = 15723.1 ✓
Emb. = 0



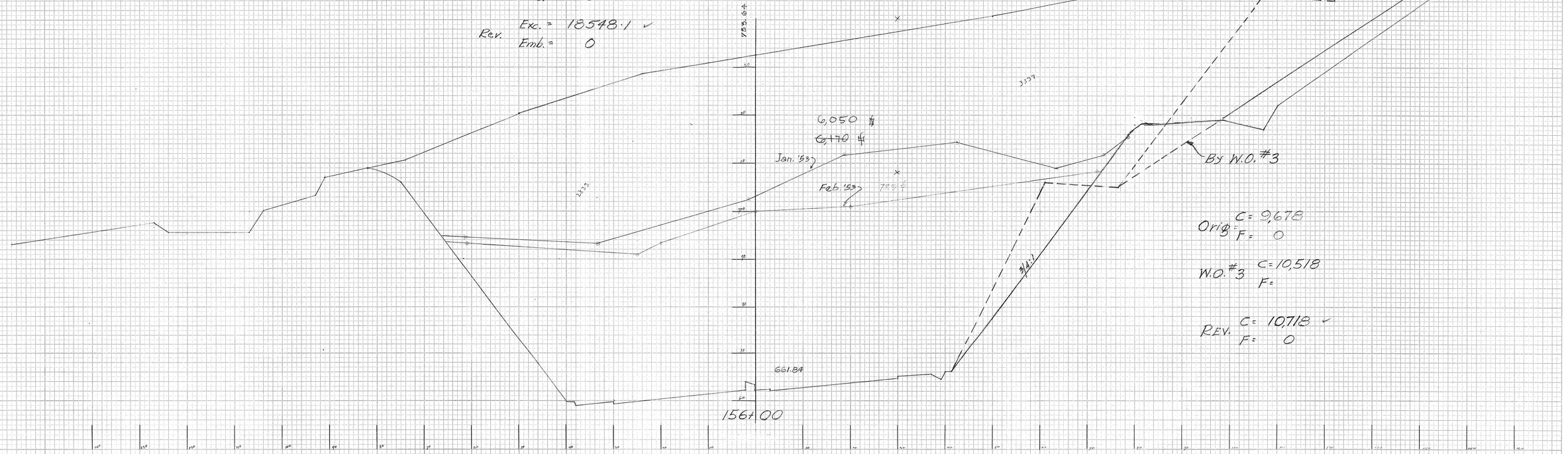
Orig C = 8,870
F = 0

W.O. #3 C = 9,188
F = 0

REV. C = 9,314 ✓
F = 0

Orig. Exc. = 17127.3
Emb. = 0

Rev. Exc. = 18548.1 ✓
Emb. = 0



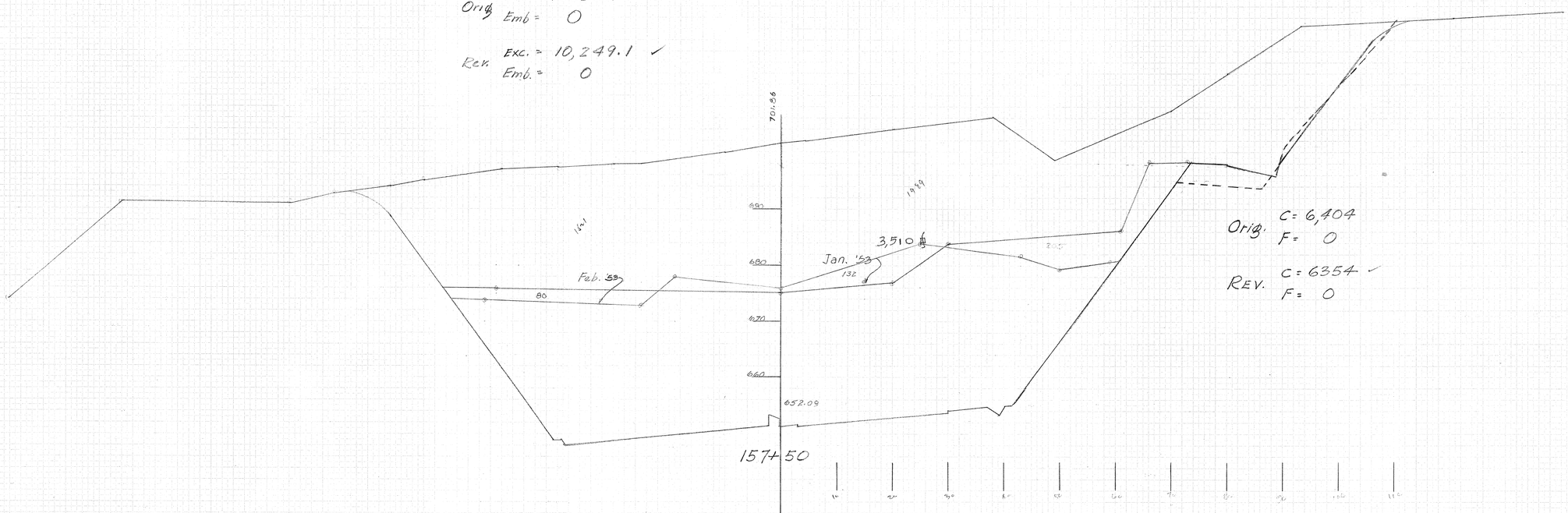
Orig C = 9,678
F = 0

W.O. #3 C = 10,518
F =

REV. C = 10,718 ✓
F = 0

Orig. Exc. = 10295.4
Emb = 0

Rev. Exc. = 10,249.1 ✓
Emb. = 0

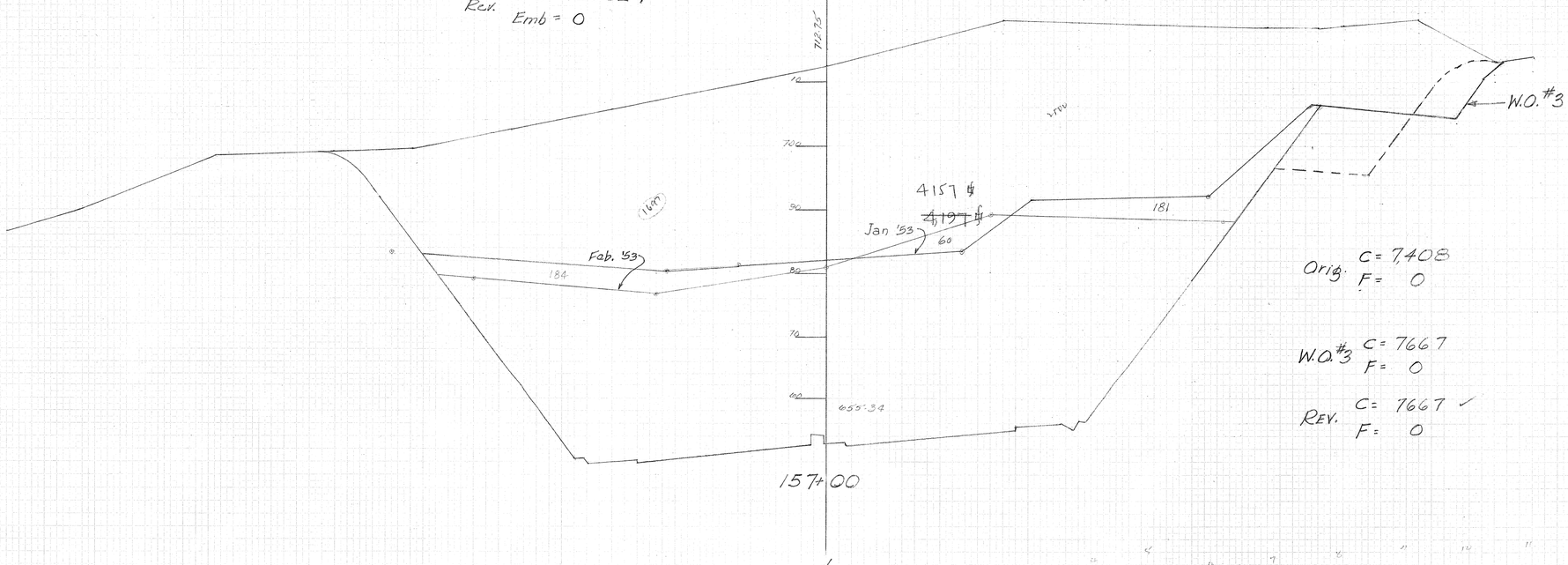


Orig. C = 6,404
F = 0

REV. C = 6354 ✓
F = 0

Orig. Exc. = 12788.9
Emb = 0

Rev. Exc. = 12982.4 ✓
Emb = 0



Orig. C = 7,408
F = 0

W.O. #3 C = 7667
F = 0

REV. C = 7667 ✓
F = 0

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

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

5488.46A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(8)	1951	47	87



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

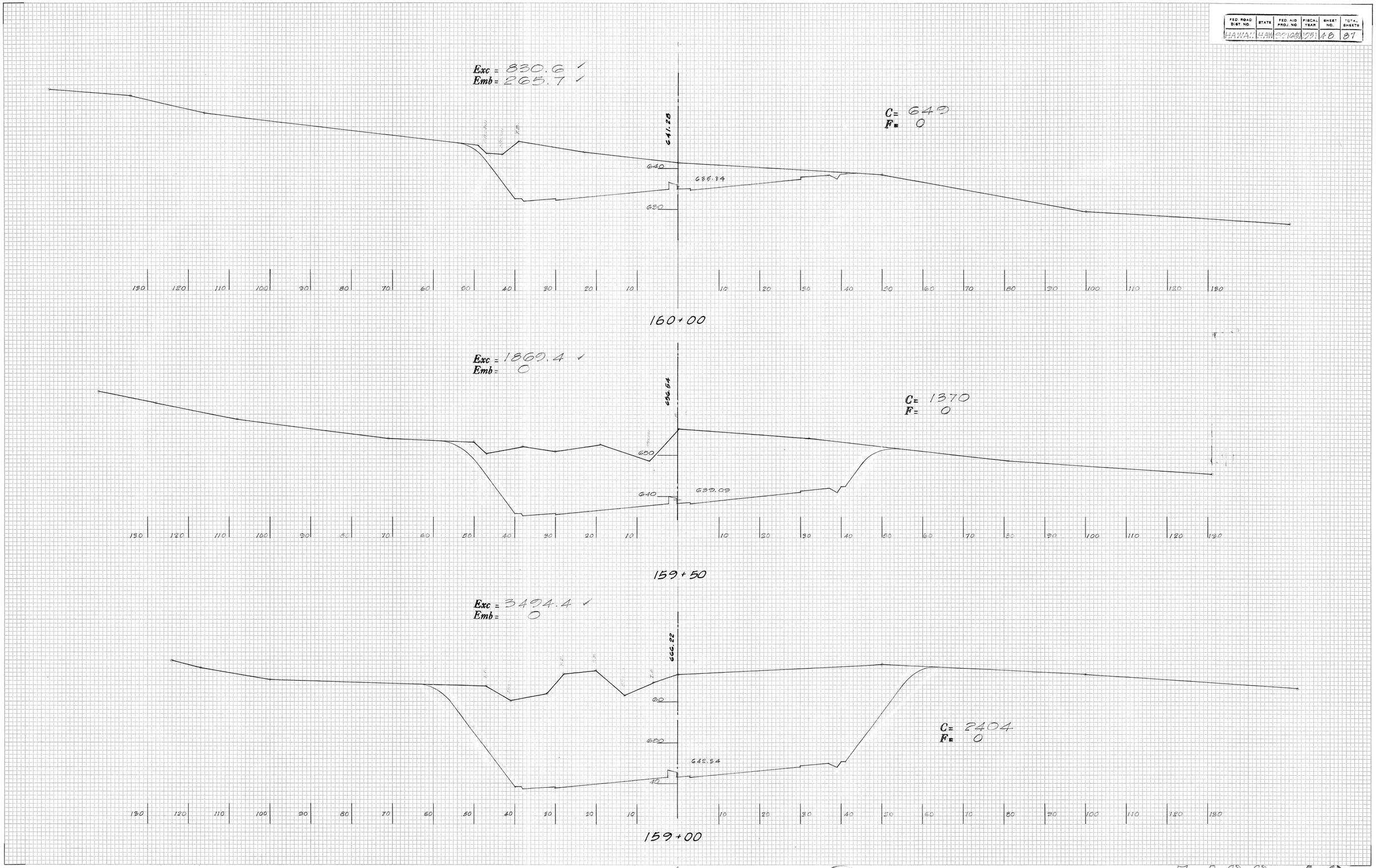
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

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. 33334

(25)

54SS.47

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(8)	1951	48	87



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

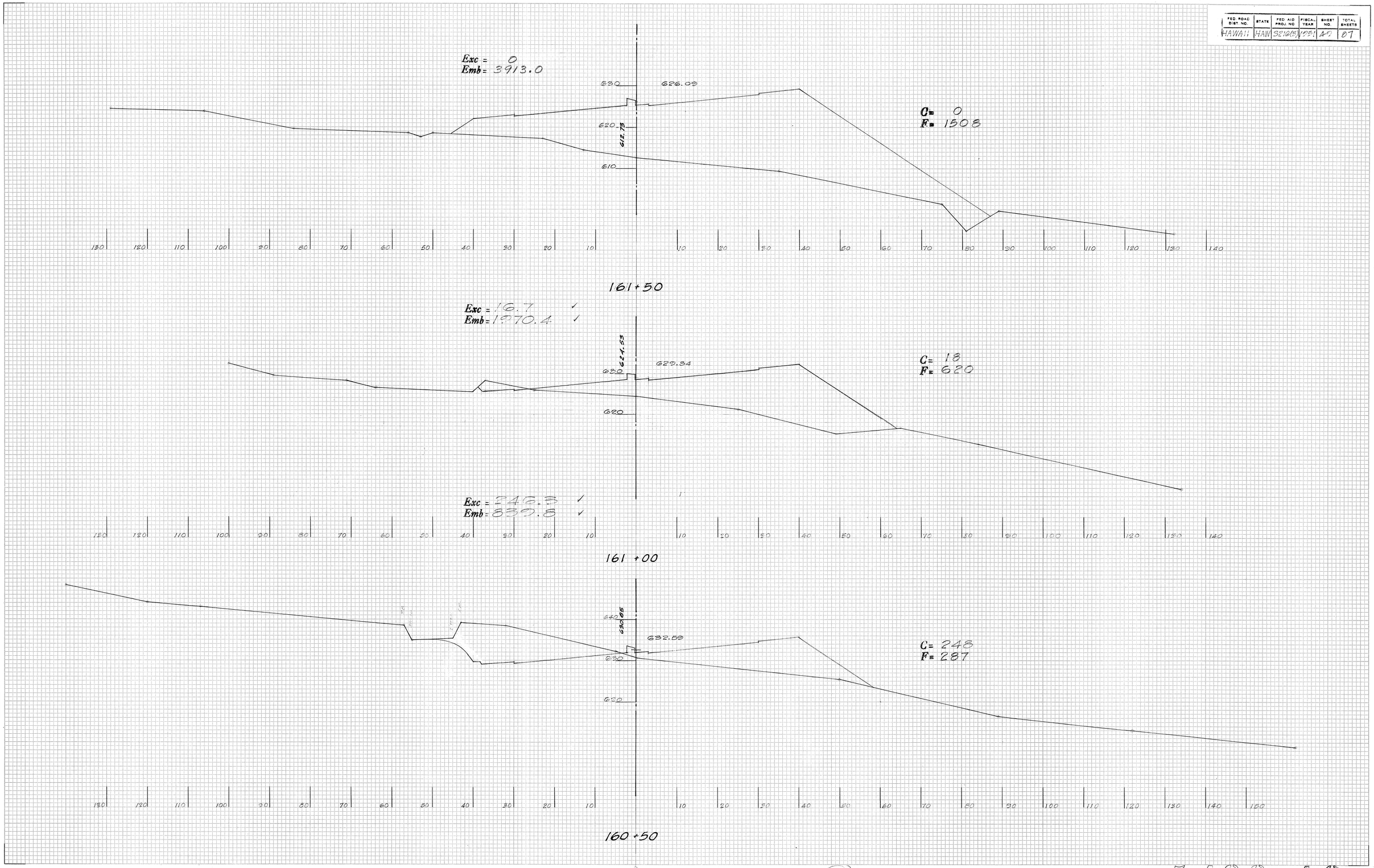
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

PLATE 3 - CROSS SECTION C.P.R.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3

(26)

54SS.4S

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	49	87



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 C.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 28334

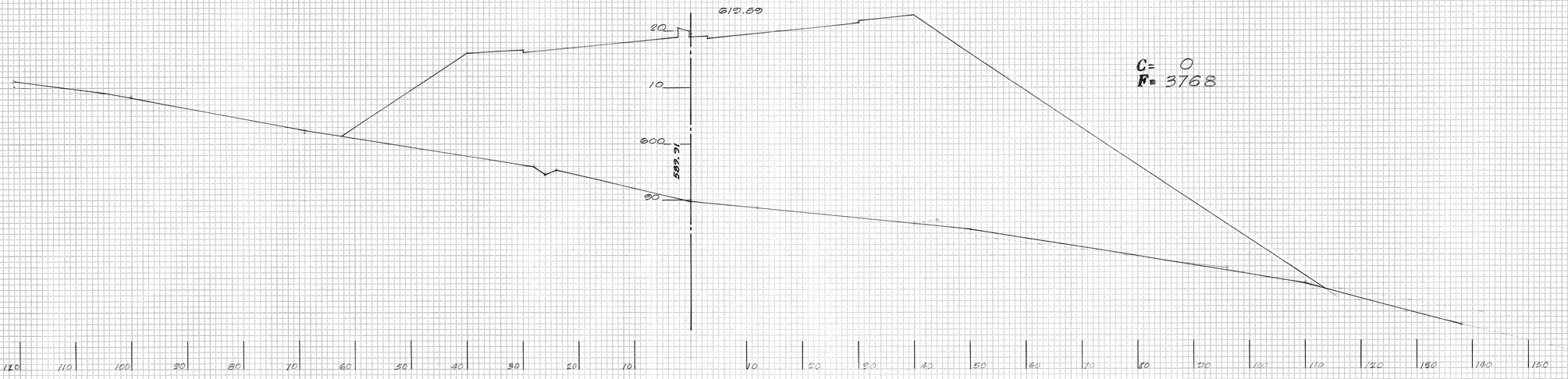
27

54SS.49

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S216(3)	1951	50	87

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

Exc = 0
Emb = 3110.2

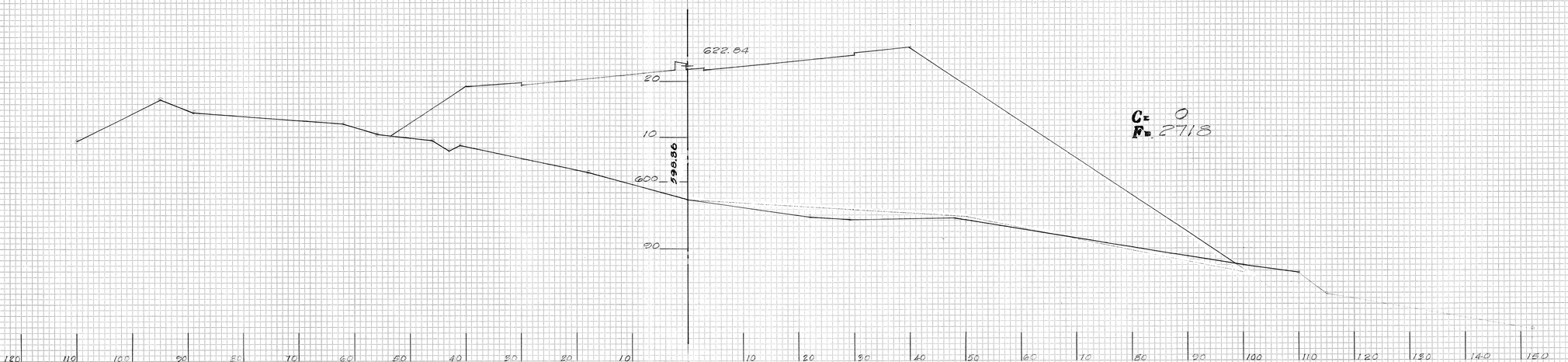


C= 0
F= 3768

162+50

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

Exc = 0
Emb = 6005.6 ✓ ✓



C= 0
F= 2718

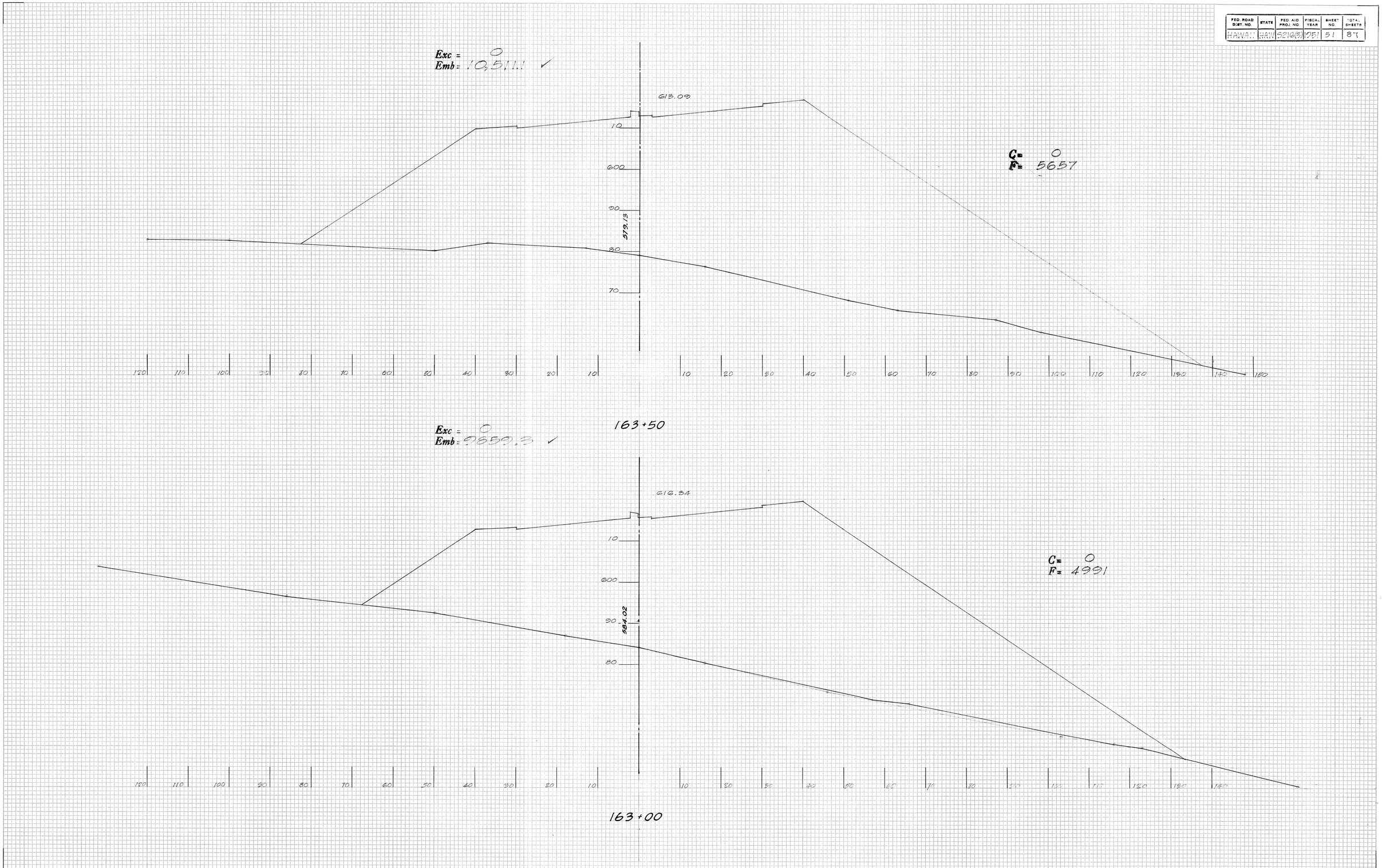
162+00

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. 28934

5488.50

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	51	87



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

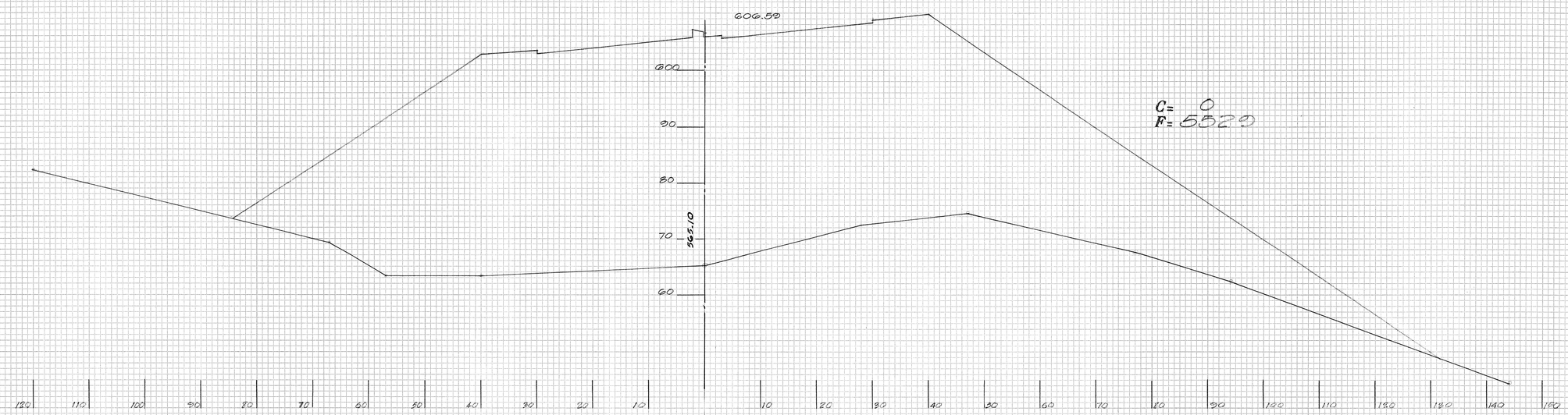
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

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. 25334

54SS.51

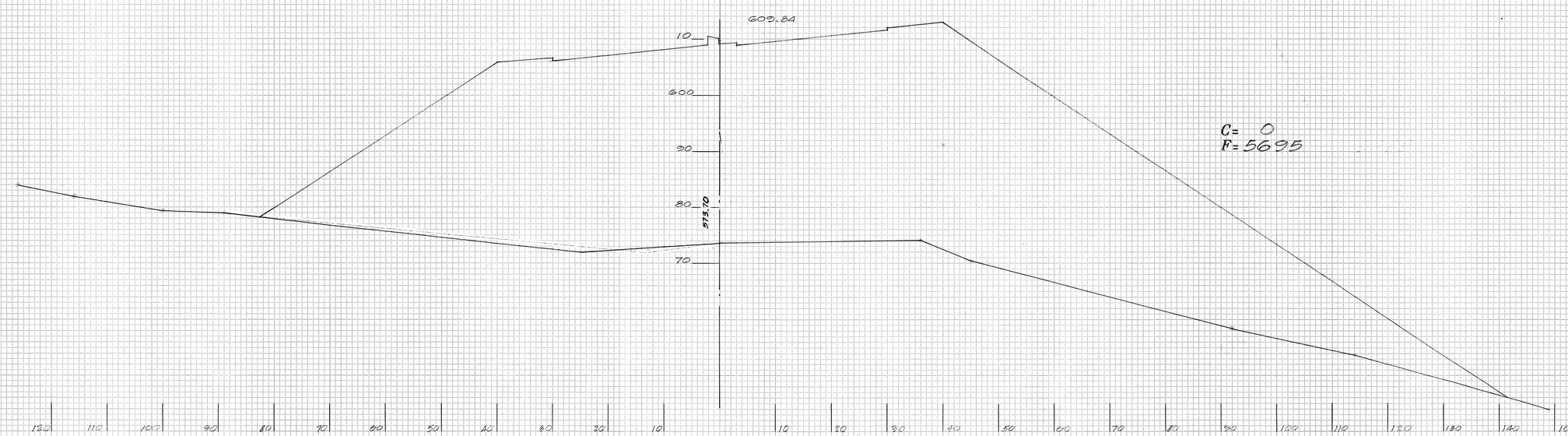
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(8)	1951	52	87

Exc = 0
Emb = 12,399.1



164+50

Exc = 0
Emb = 10,392.6



164+00

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

ORIGINAL SURVEY — NOTE BOOK NO. 876 — 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. 25334

(30)

54SS.52

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S-213(2)	1951	53	87

Exc = 0
Emb = 23,436.3 ✓

603.94
600
90
80
70
60
550.77
550

C = 0
F = 7862

165+00

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

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

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — 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. 25854

(31)

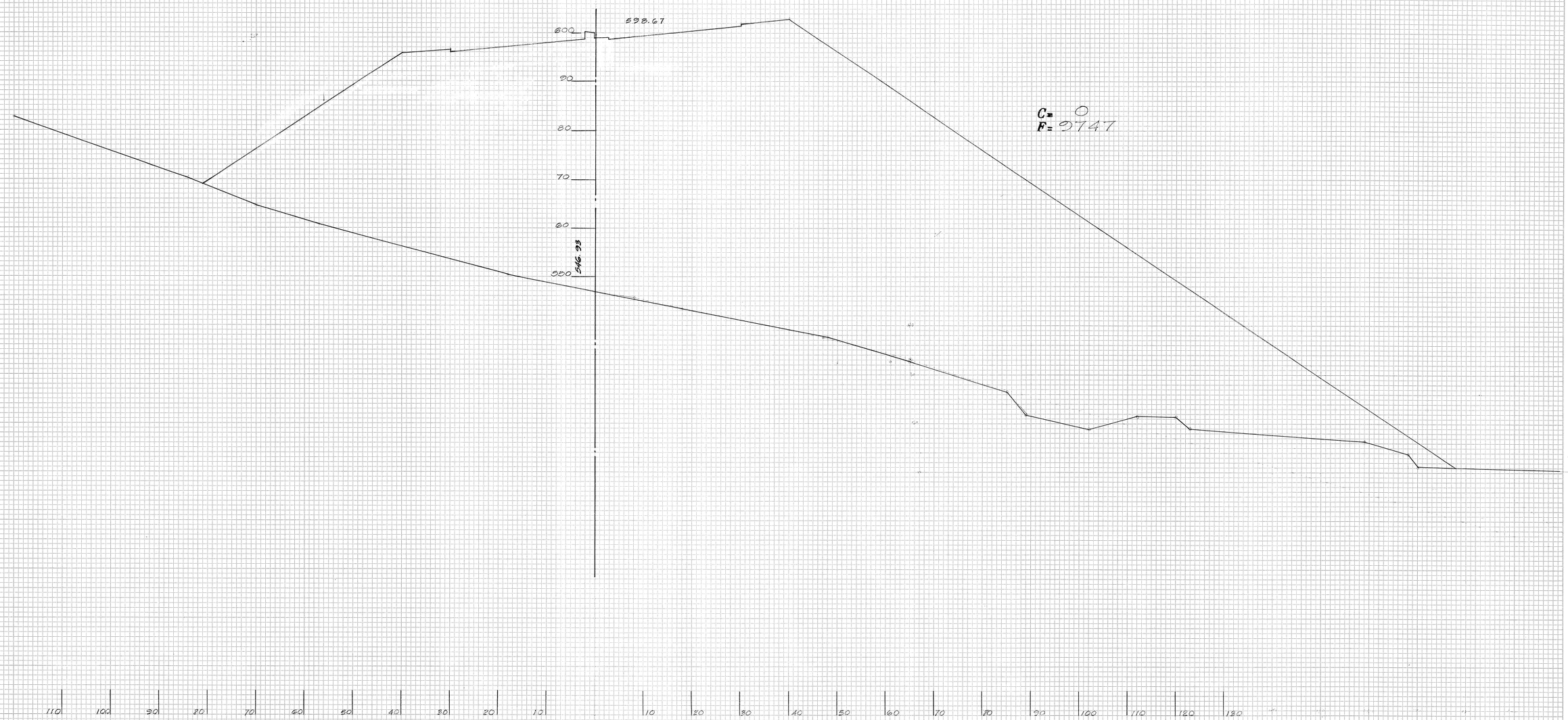
54 SS. 53

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	54	87

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

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

Exc = 0 ✓
Emb = 20,522.2 ✓



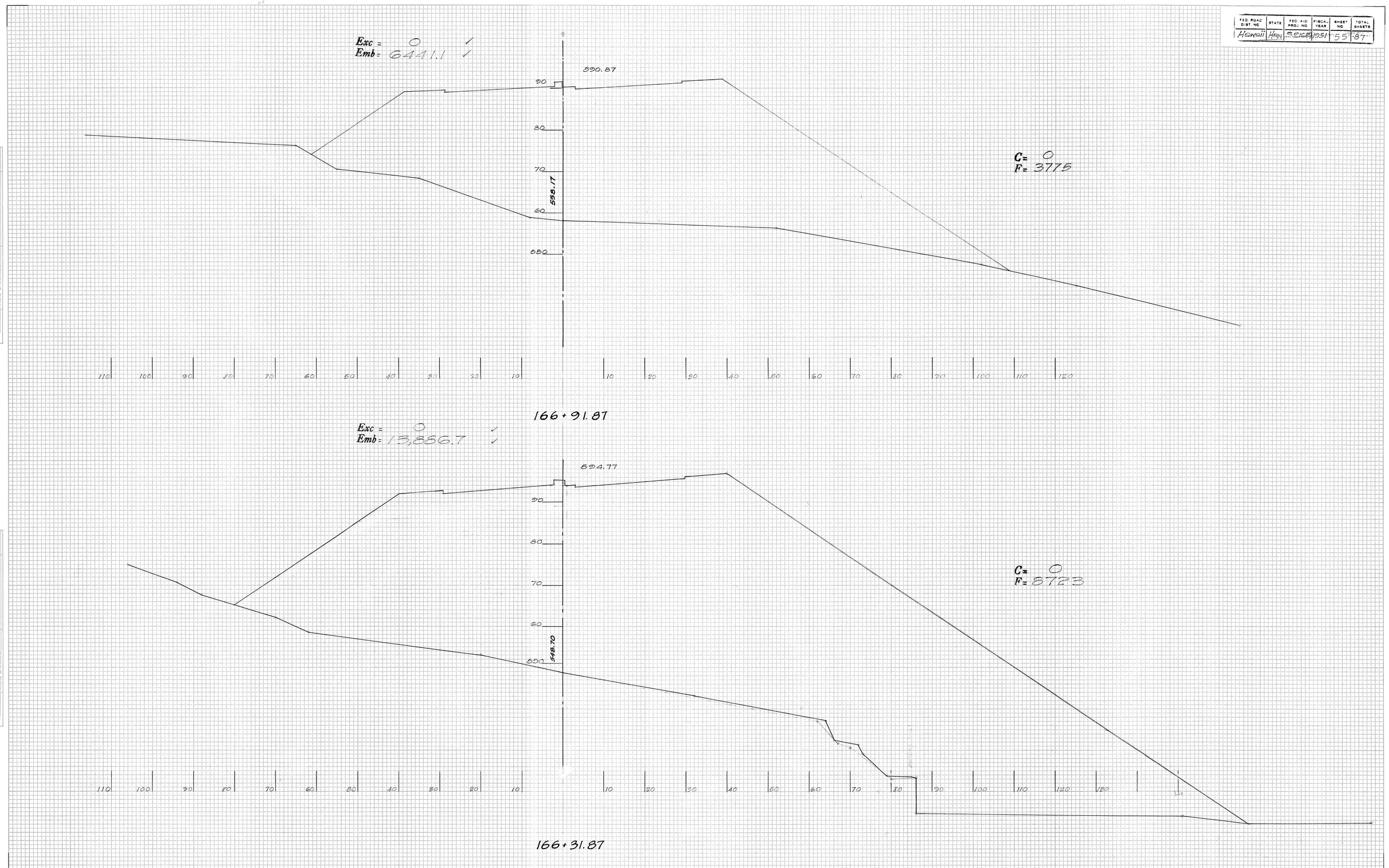
C.S. 165+71.87

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. 21334

(32)

54SS.54

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw.	S-2168	1951	55	87



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. 25334

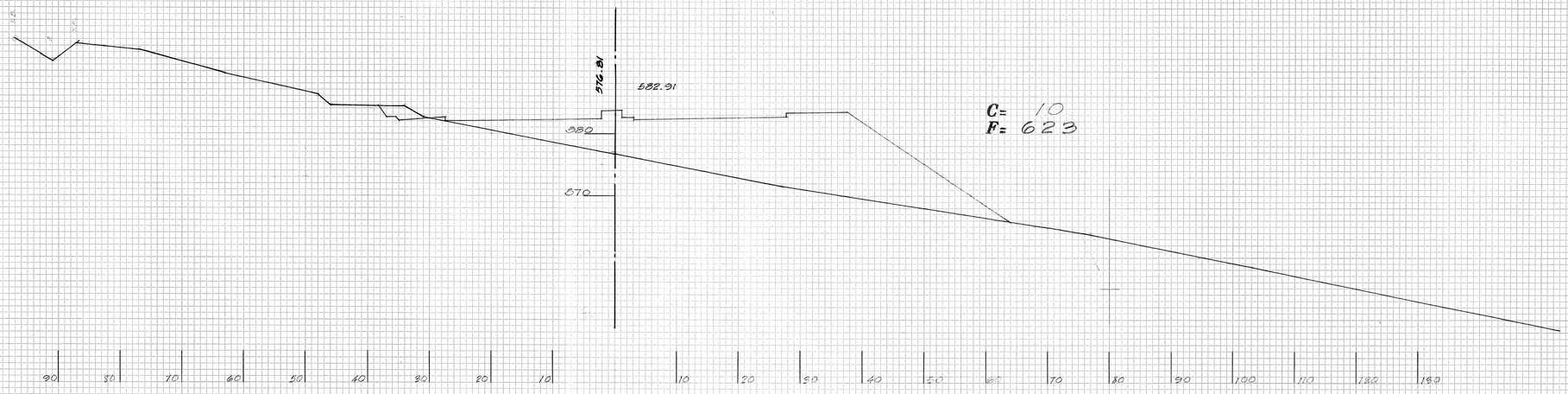
54SS.55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S2102(3)	1951	56	87

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

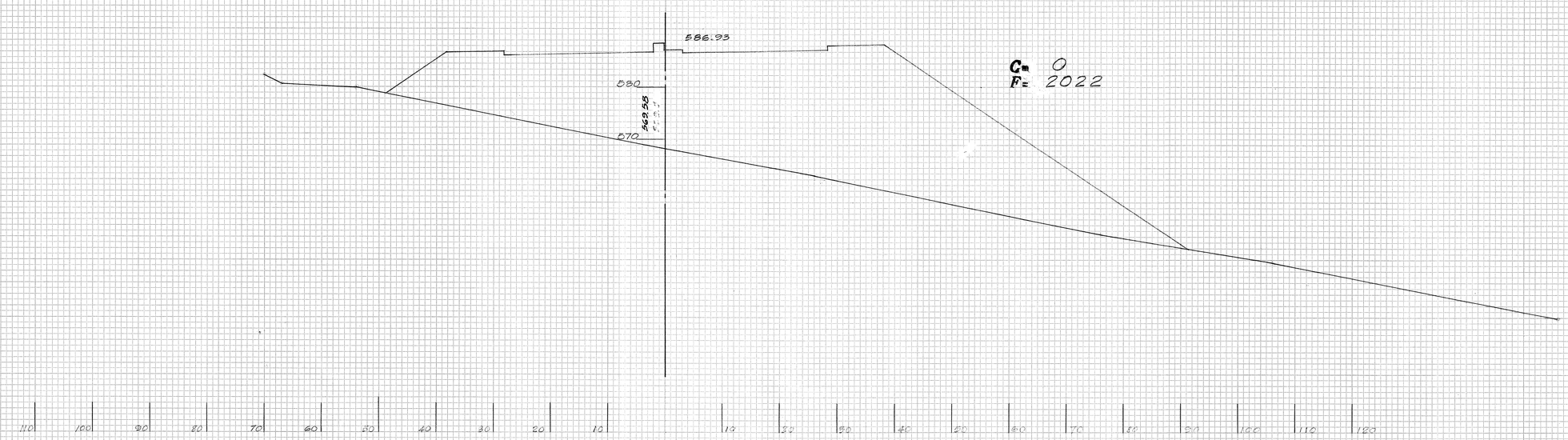
Exc = 472.2 ✓
Emb = 700.0 ✓



C = 10
F = 623

168 + 11.87

Exc = 11.1 ✓
Emb = 2938.9 ✓



C = 0
F = 2022

167 + 51.87

PLATE 3 - CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 348-3 MADE IN U.S.A. 38324

(34)

5488.56

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(8)	1957	57	87

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

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

Exc = 0 ✓
Emb = 2402.3 ✓

563.84
570
560
549.32
550

C = 0
F = 1694

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

170+00

Exc = 78.7 ✓
Emb = 1938.9 ✓

569.50
578.34
570
560

C = 85
F = 400

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

Exc = 723.4 ✓
Emb = 588.9 ✓

169+50

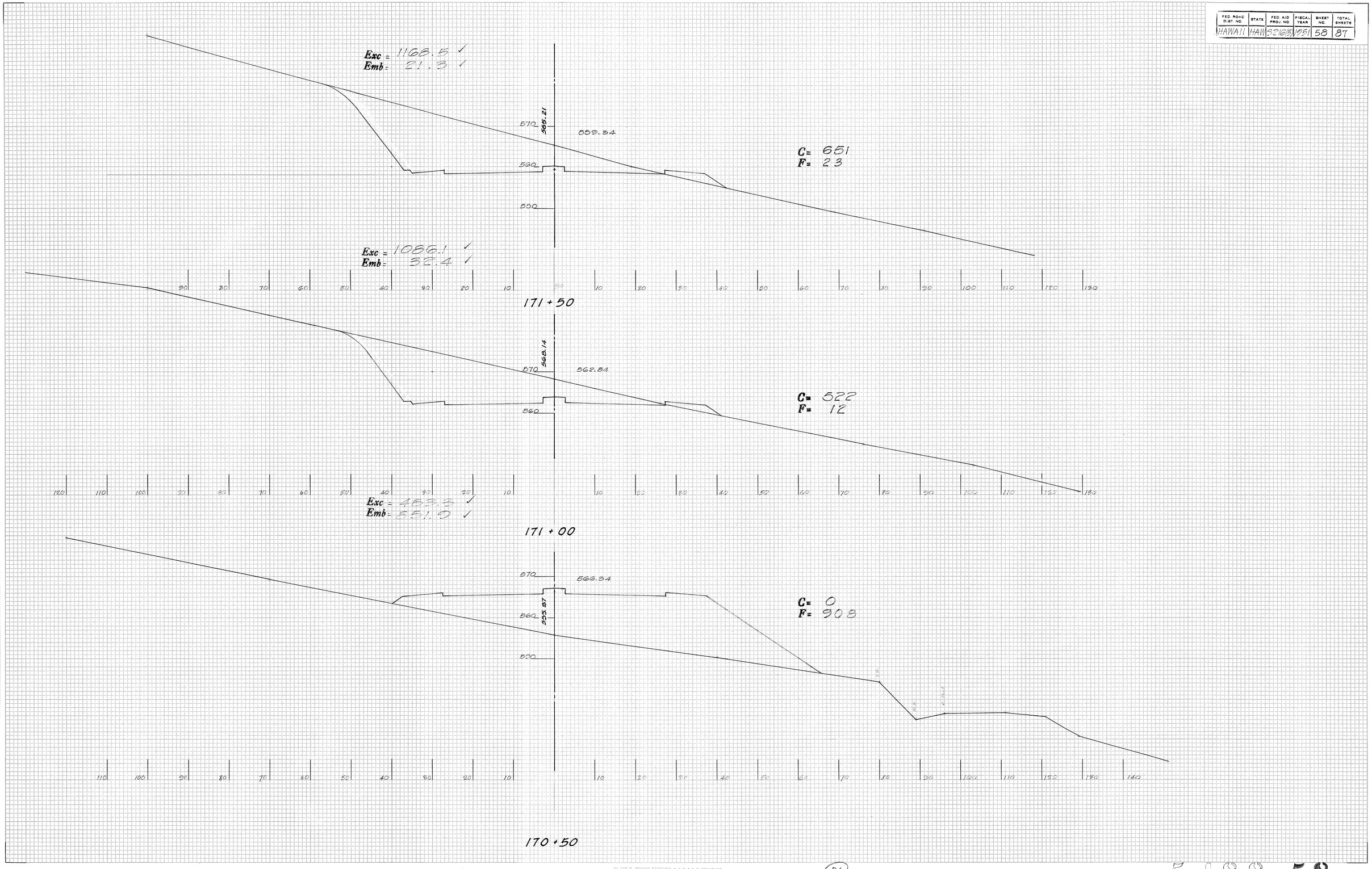
582.28
578.80
580
570

C = 415
F = 7

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

S. T. 168+71.87

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(8)	1951	58	87



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

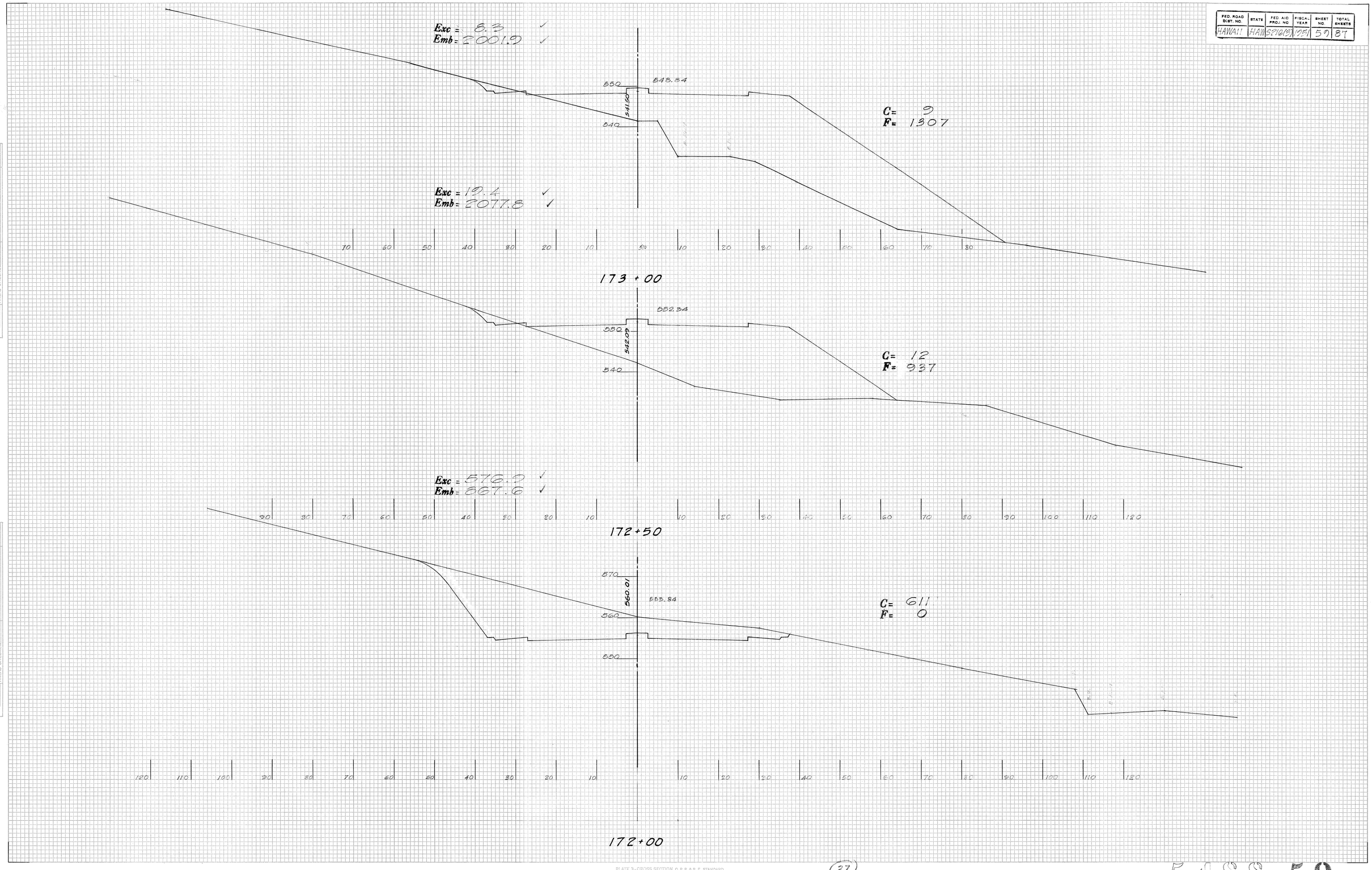
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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. 28334

(36)

54SS.58

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	59	87



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 C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 88324

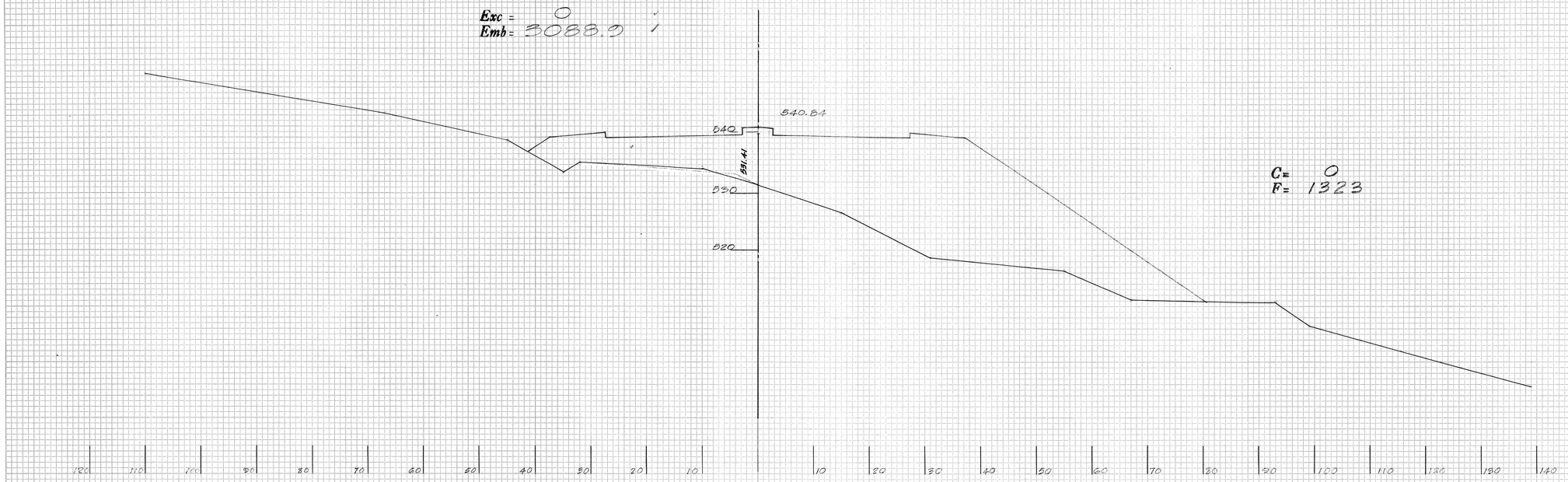
(37)

54SS.59

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	60	87

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

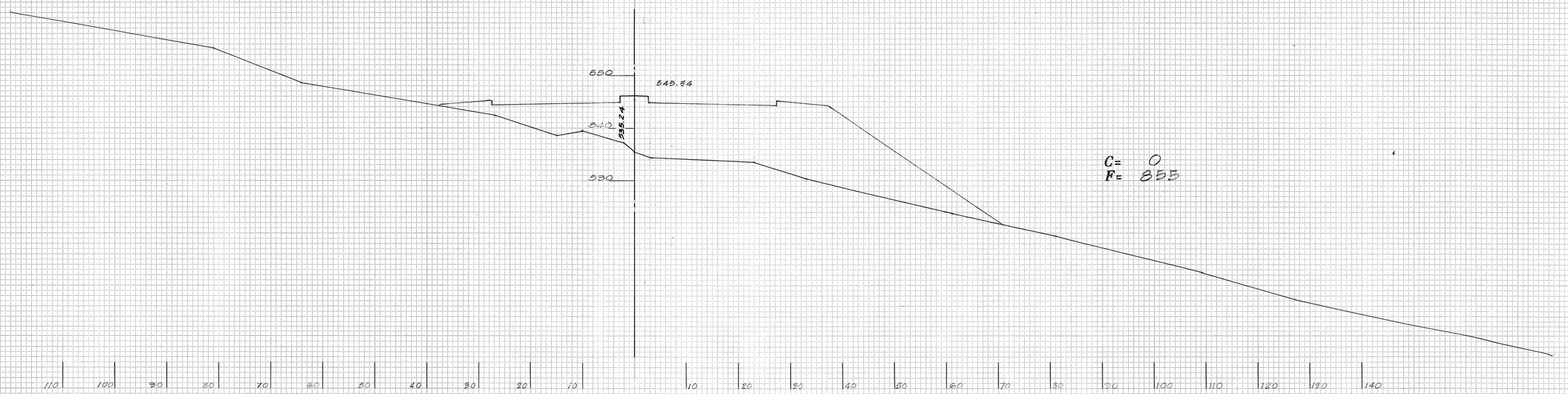
Exc = 0
Emb = 3088.9



C = 0
F = 1323

T. S. 174 + 14.35

Exc = 0
Emb = 2595.5



C = 0
F = 855

173 + 50

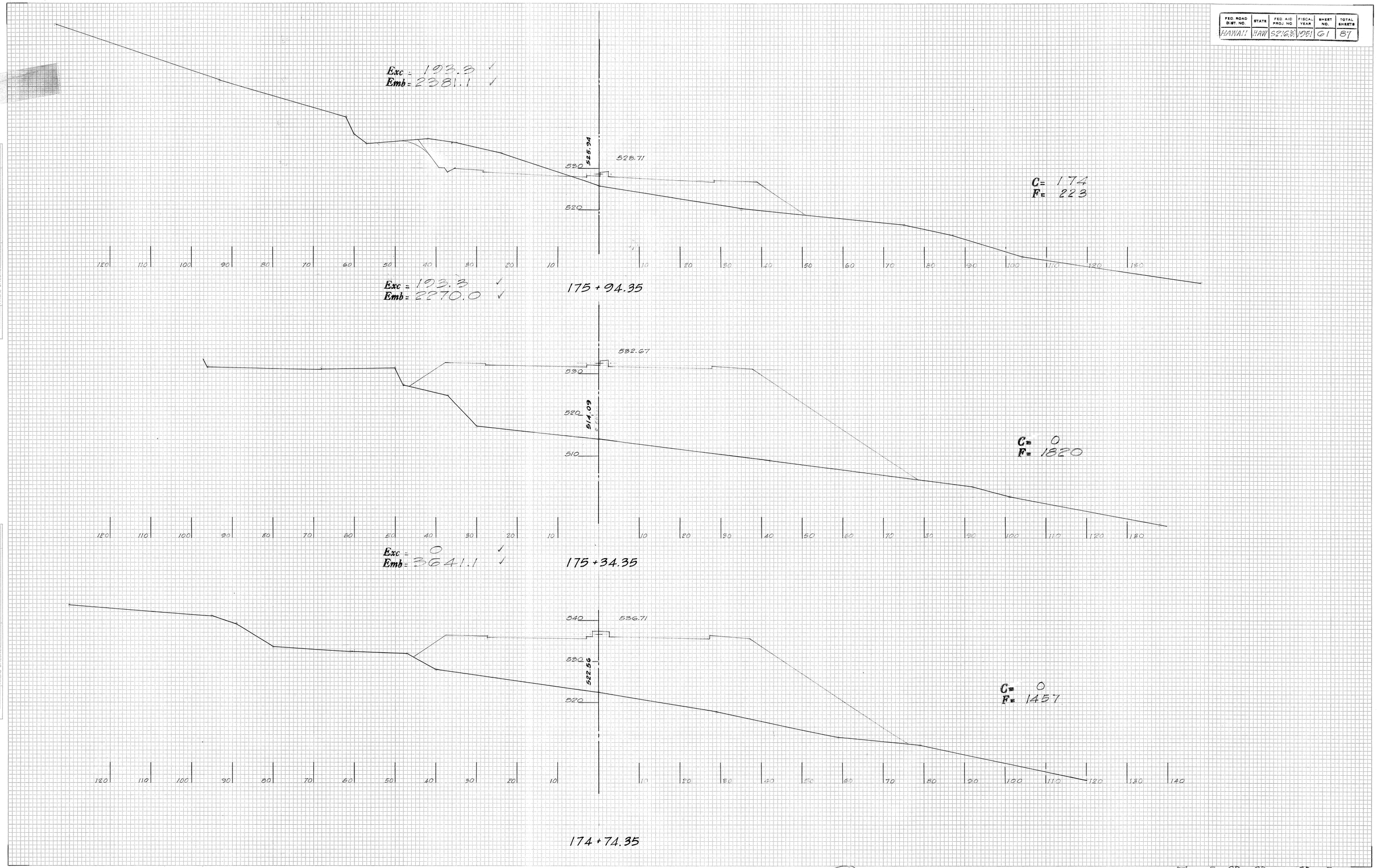
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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. 80354

(38)

54SS.60

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	61	87



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. 28334

(39)

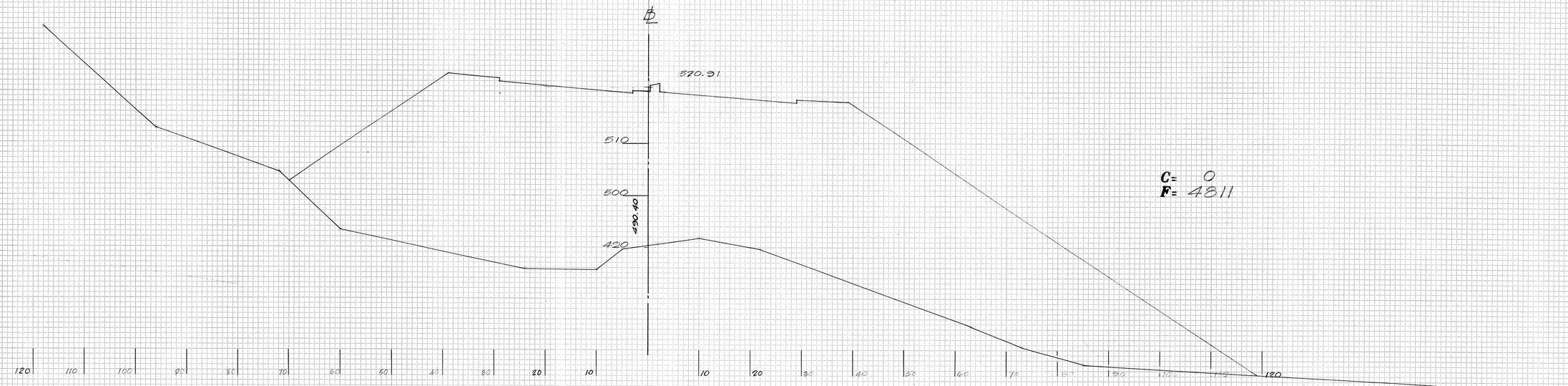
54SS.61

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SE 16(6)N	1951	62	87

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

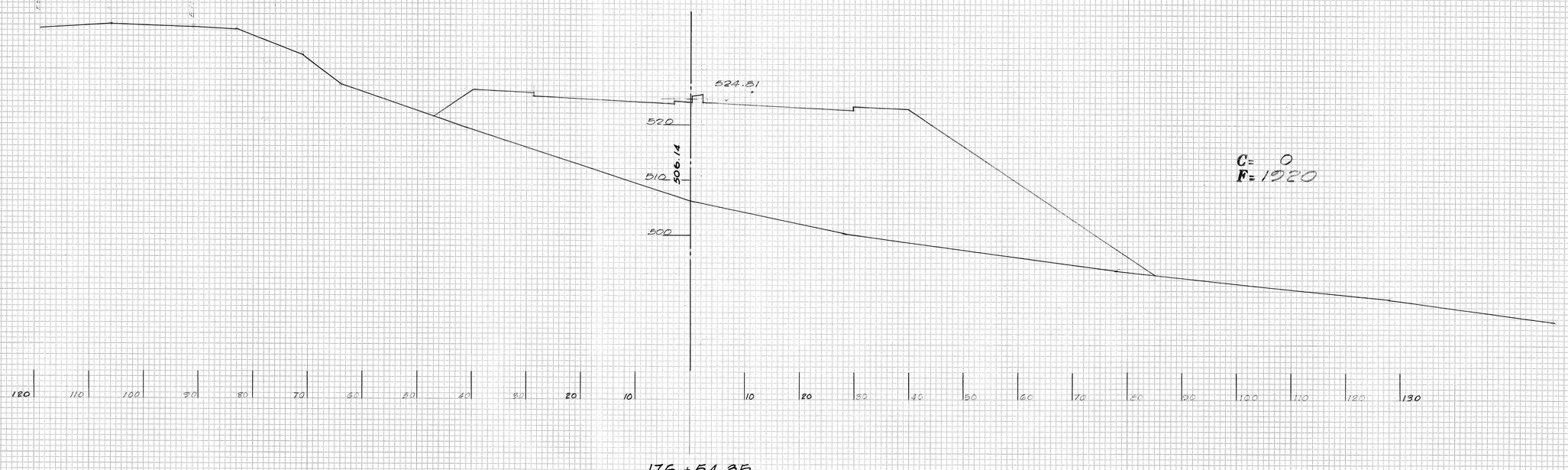
Exc = 0 ✓
Emb = 7011.8 ✓



C = 0
F = 4811

Exc = 0 ✓
Emb = 7478.9 ✓

S. C. 177 + 14.35



C = 0
F = 1920

176 + 54.35

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. 20334

(40)

54SS. 62

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S2183	1251	63	87

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 = 0
Emb = 6944.0 ✓

℄

513.34

482.72

C = 0
F = 4625

Exc = 0 ✓
Emb = 9662.0 ✓

178 + 00

518.59

476.12

C = 0
F = 5810

177 + 50

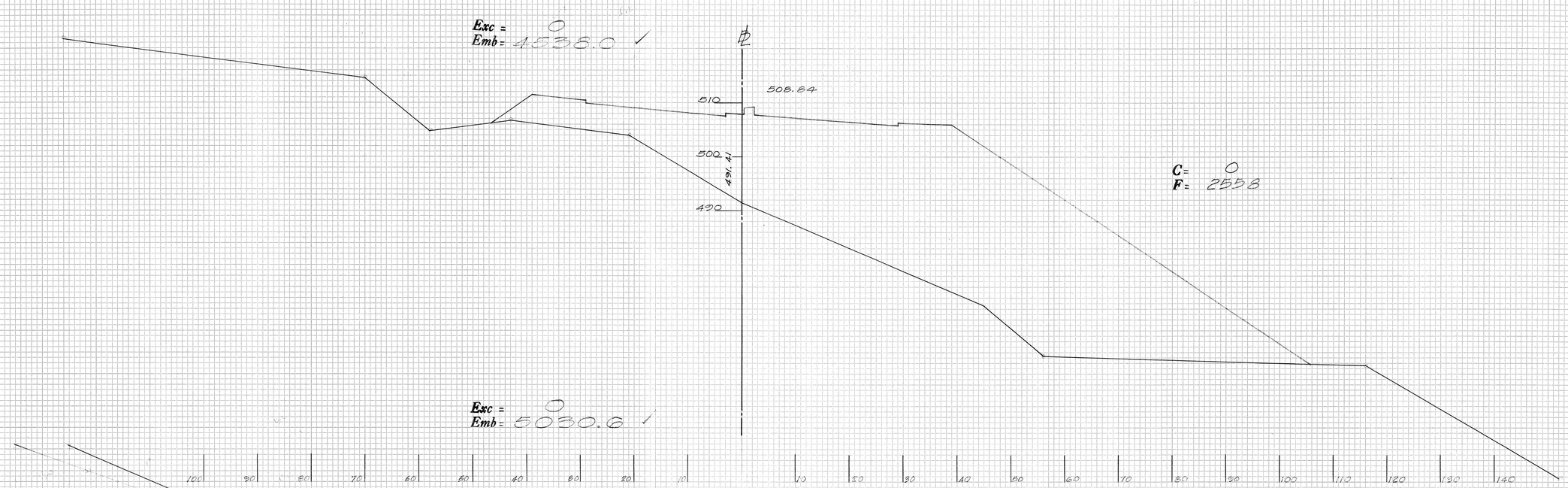
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3

(41)

5488.63

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	64	87



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. 28334

54SS.64

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	65	87

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

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

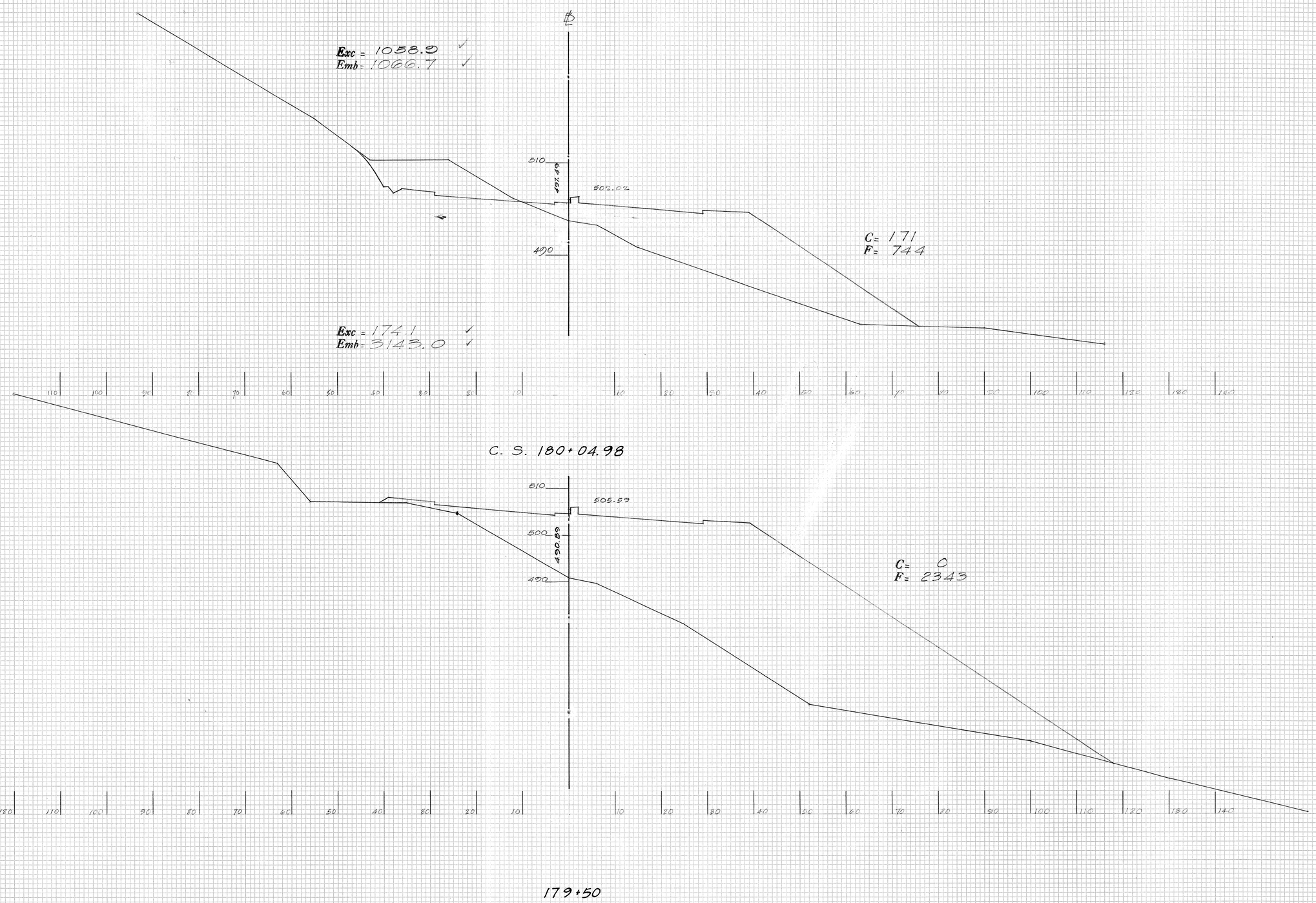


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 38384

(43)

54SS.65

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
HAWAII	HAW	S216(8)	1951	66	87

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 = 4165.5 ✓
Emb = 77.5 ✓

505.94

510

500

490

494.22

C = 1397
F = 62

180 110 100 90 80 70 60 50 40 30 20 10 | 10 20 30 40 50 60 70 80 90 100 110 120 130 140

181 + 24.98

Exc = 2421.1 ✓
Emb = 308.9 ✓

507.58

510

500

490

498.12

C = 782
F = 216

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

180 + 64.98

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

K & E CO. No. 345-3

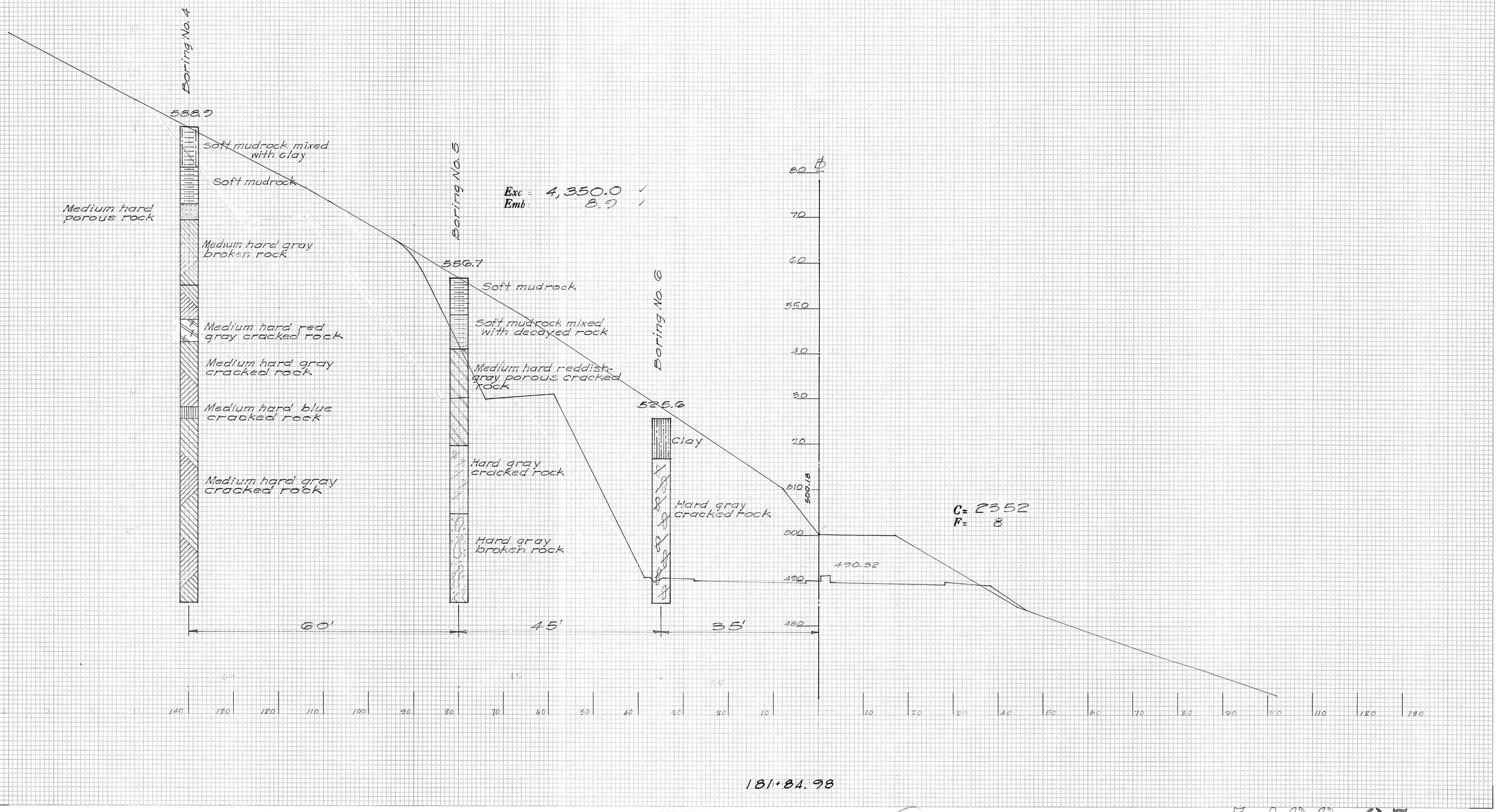
(44)

5 HSS. 66

FED ROAD DIST NO.	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S216(3)	1951	67	87

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



181+84.98

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

K & E CO. No. 345-3

(43)

5 45S.67

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	68	87

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

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

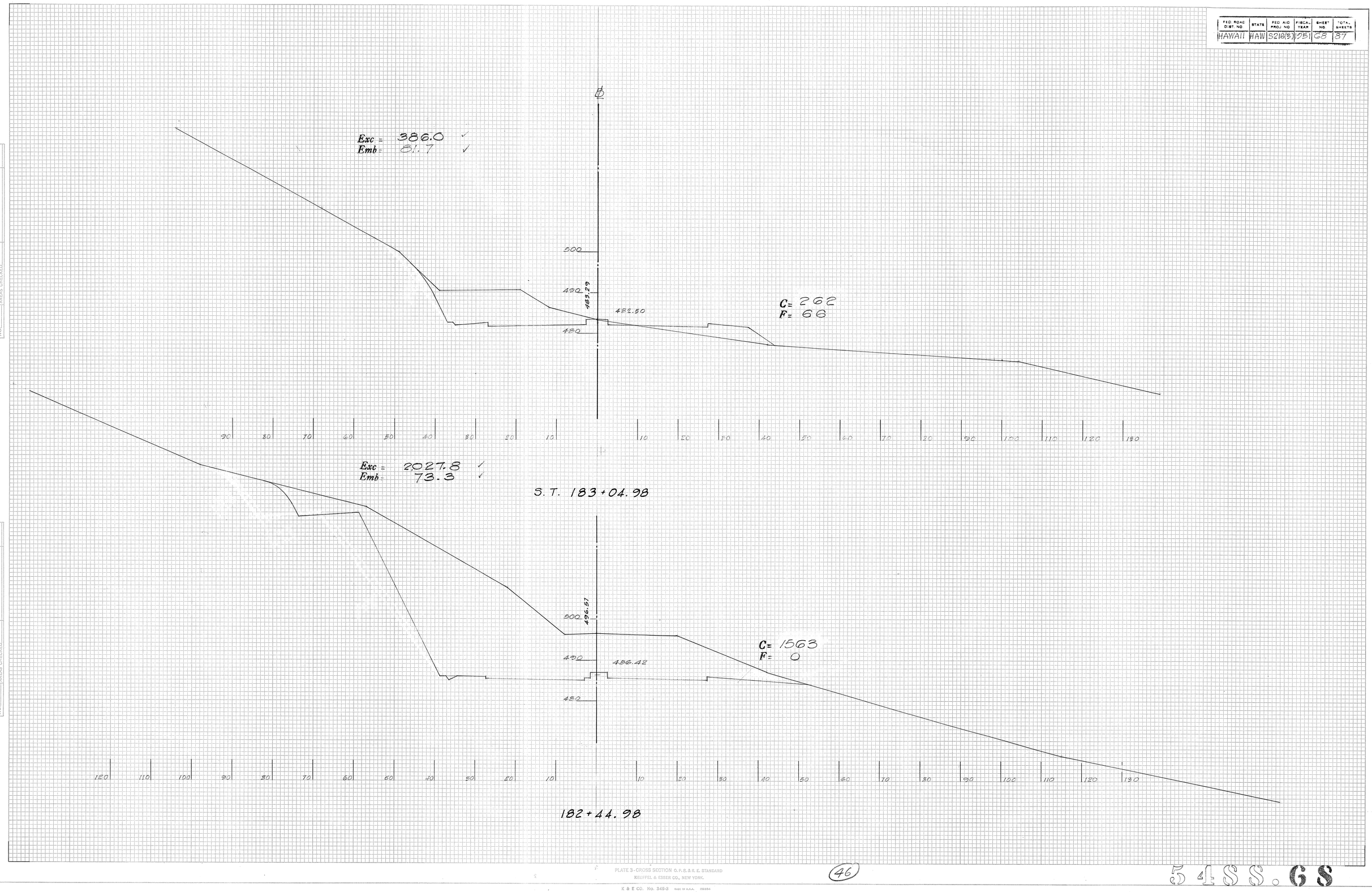


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 29384

5455.65

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	69	87



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. 28334

54SS.69

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
HAWAII	HAW	S216(3)	1951	70	87

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

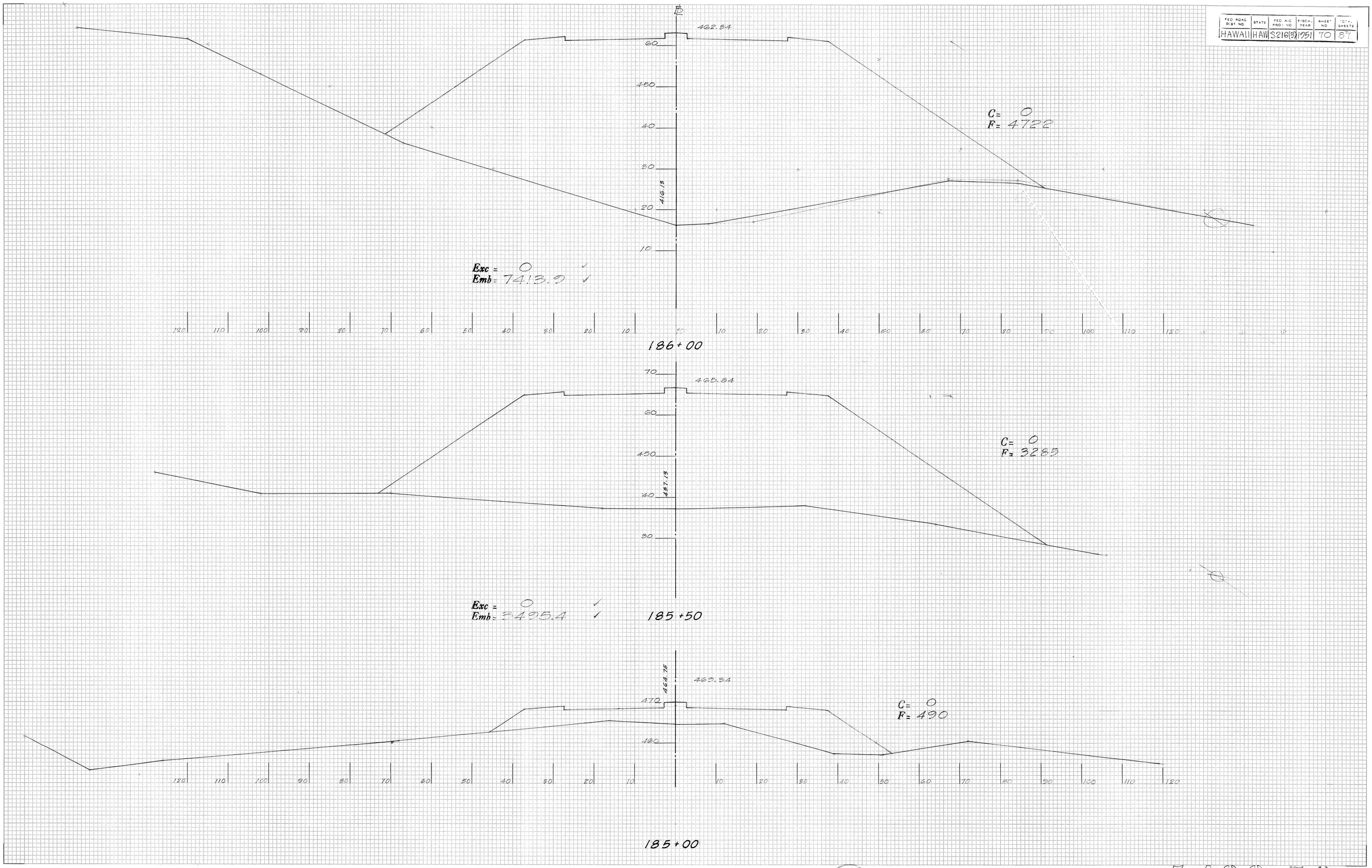


PLATE 3 - CROSS SECTION C. P. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

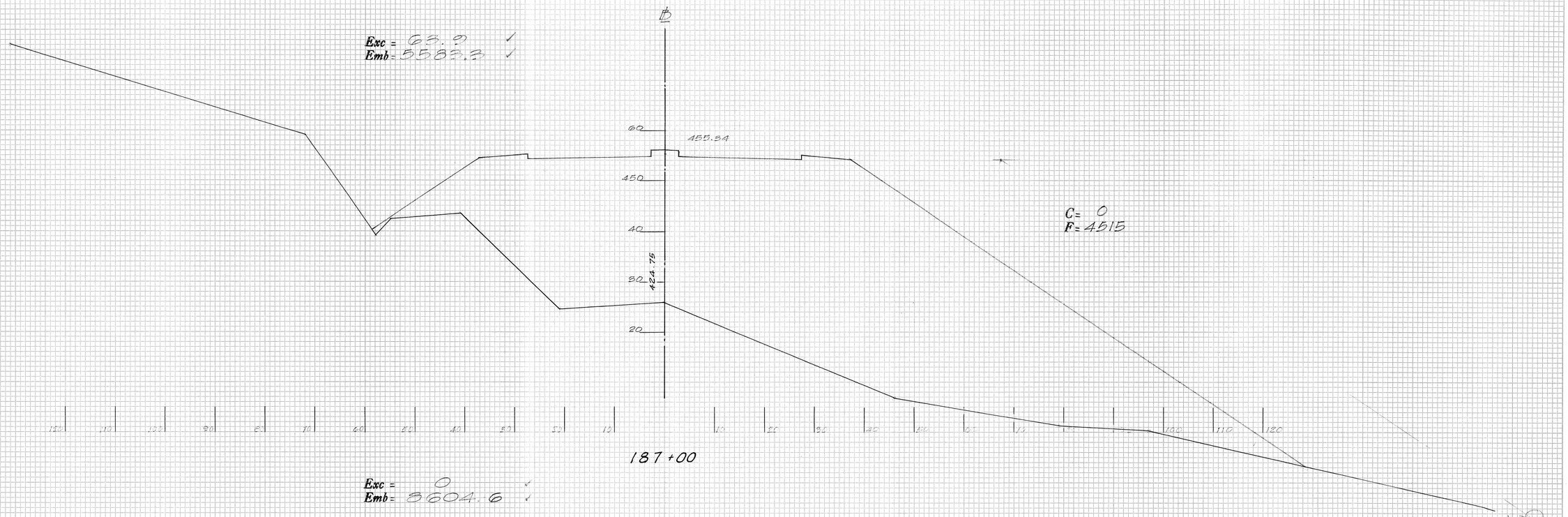
K & E CO. No. 345-3

(48)

5488.70

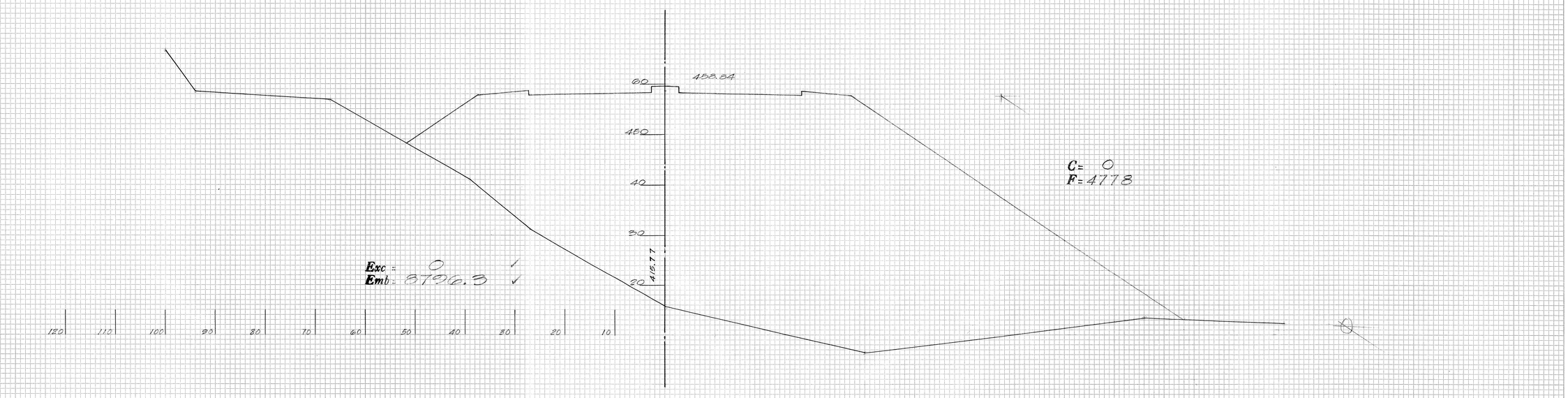
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	71	87

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



187+00

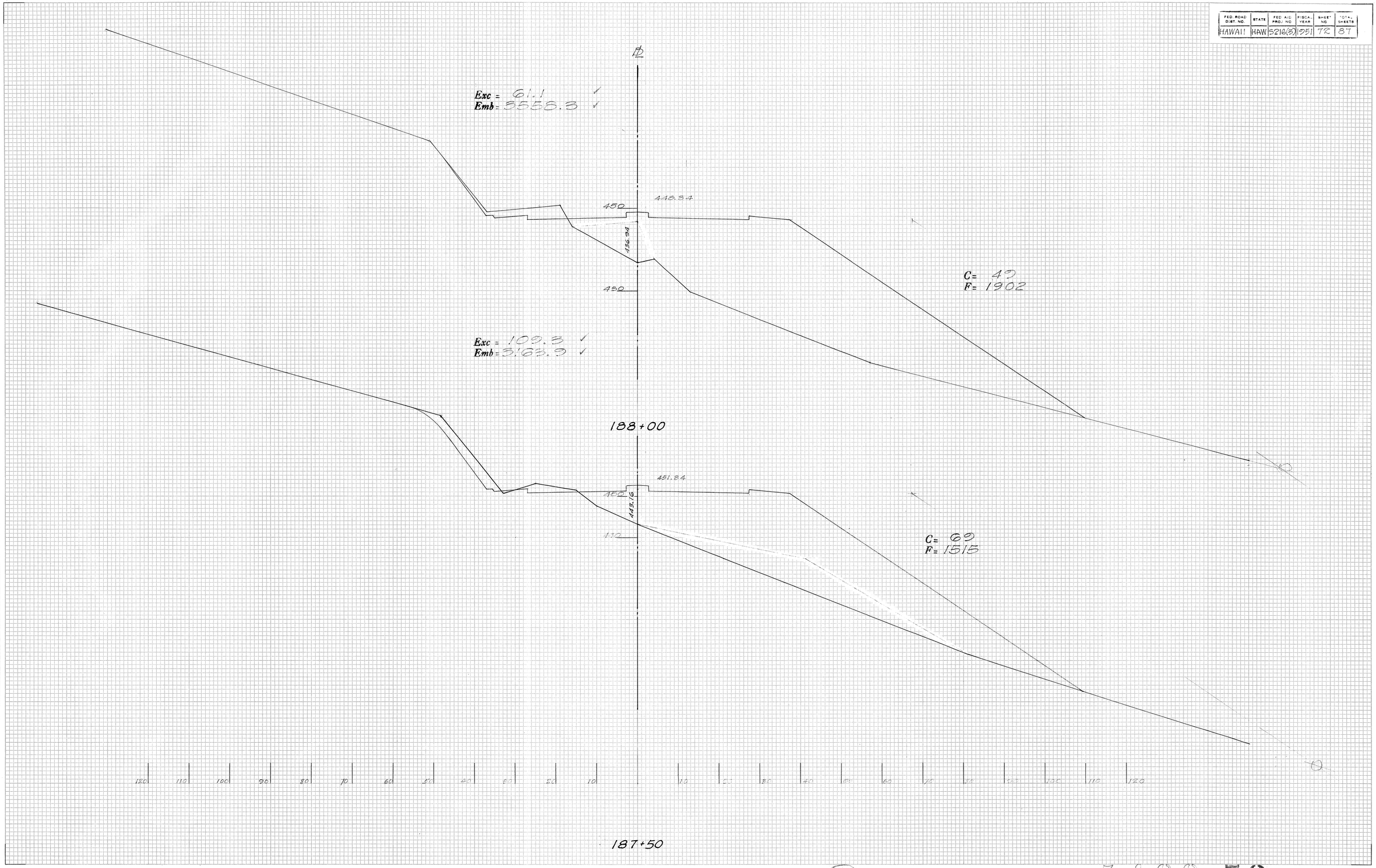
Exc = 0 ✓
Emb = 3604.6 ✓



186+50

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	72	87



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. 23234

(50)

54SS.72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	73	87

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

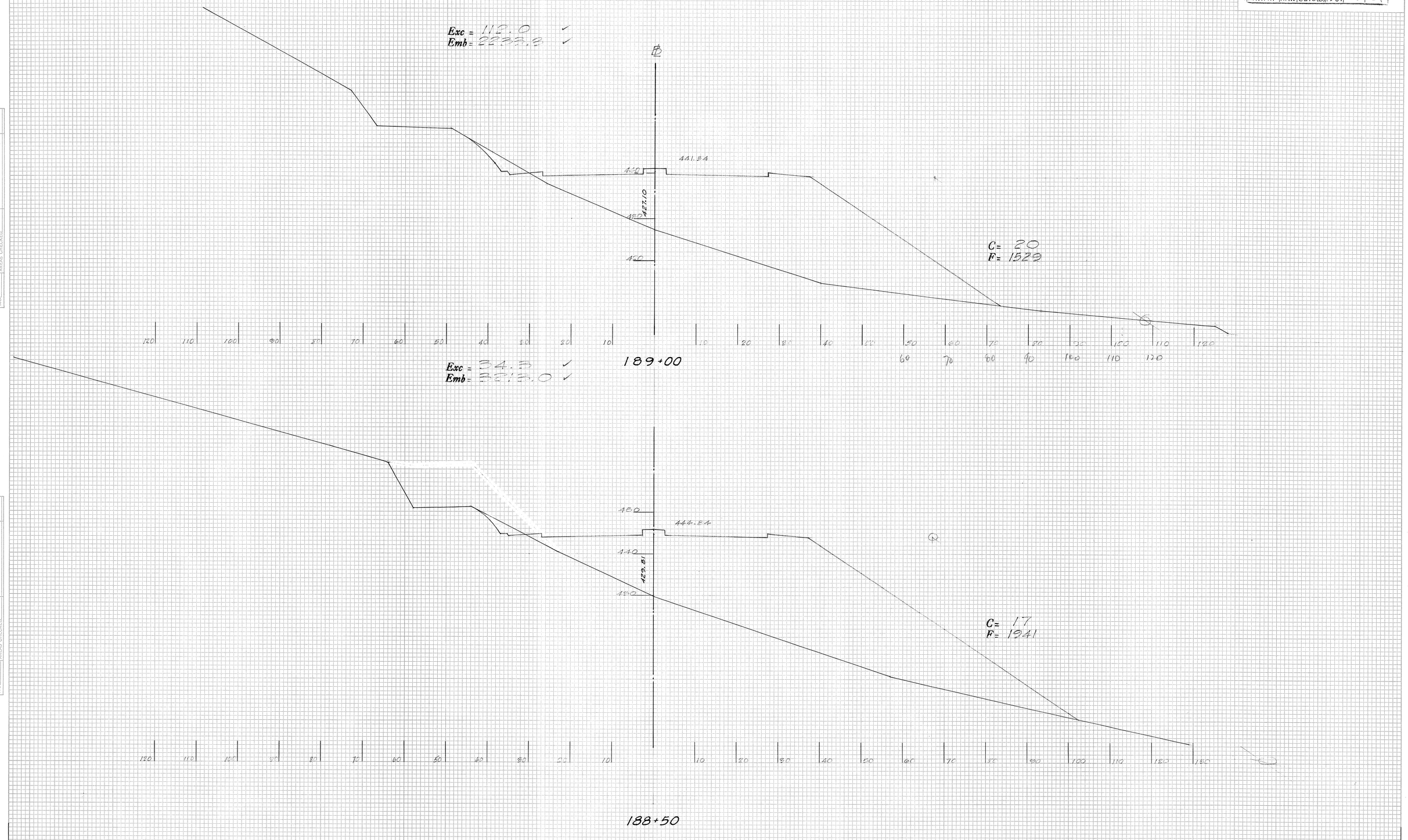


PLATE 3-CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 80864

(51)

54SS.73

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	74	87

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

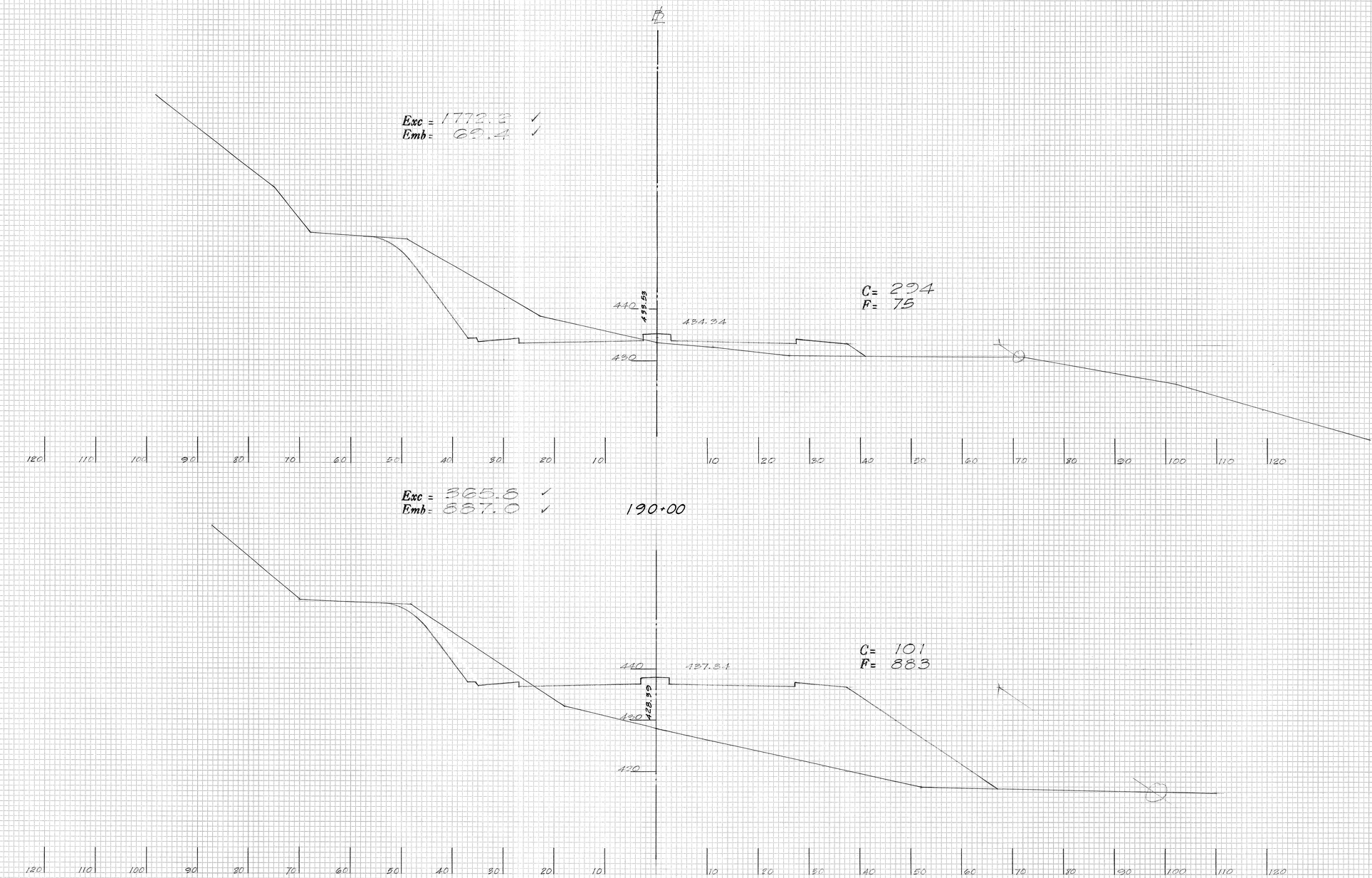


PLATE 3 - CROSS SECTION C.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 25834

(52)

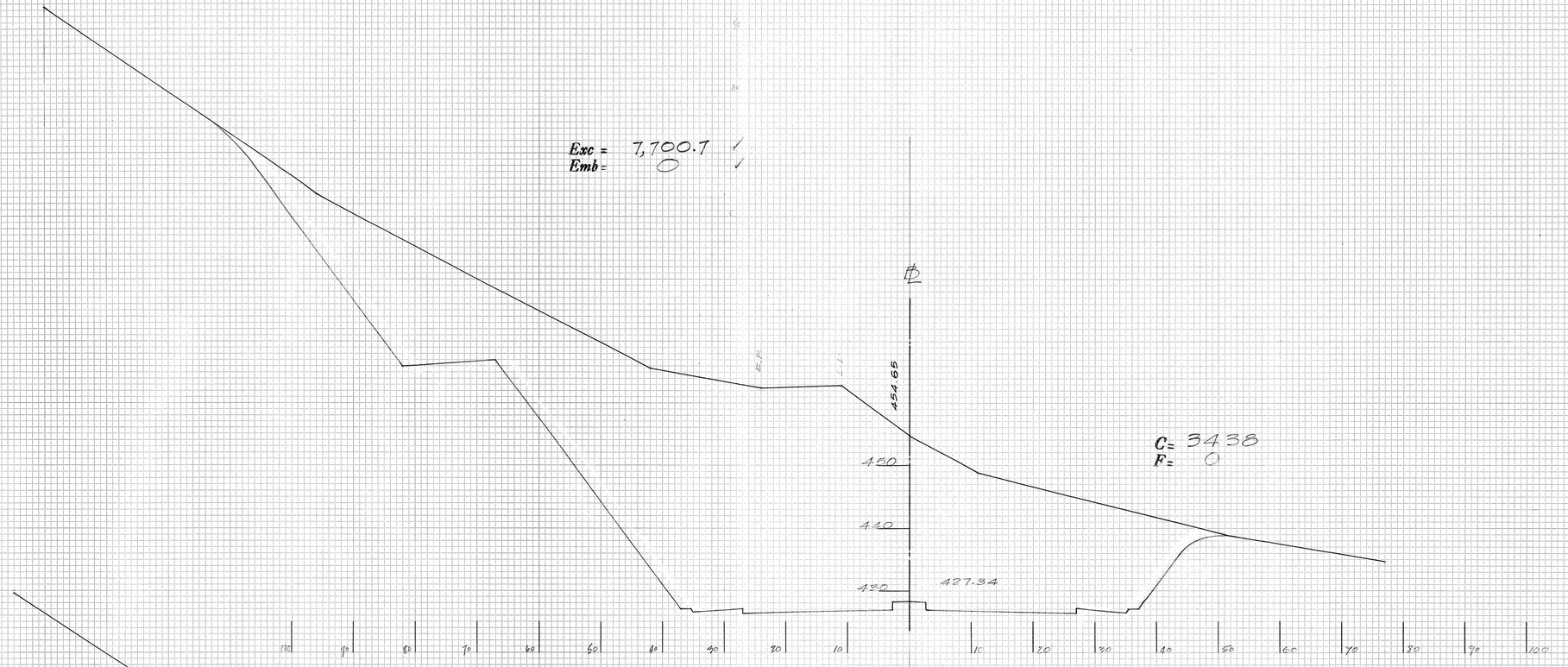
54SS.74

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S2163	051	75	87

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

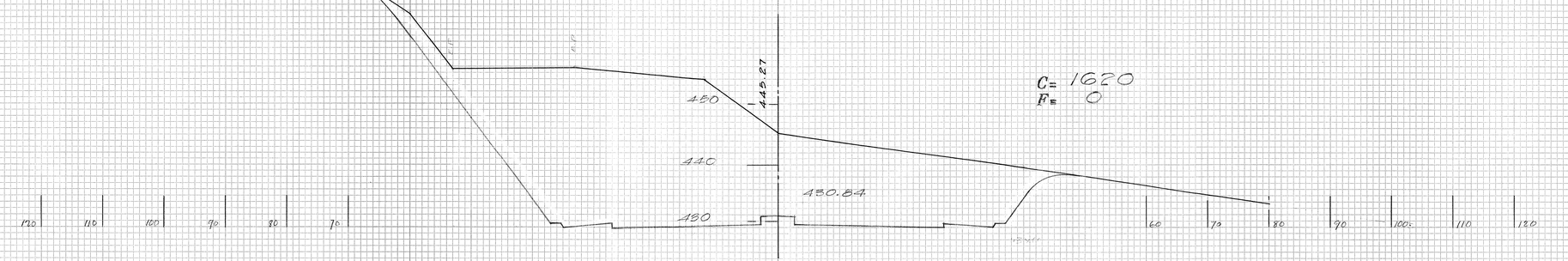
ORIGINAL SURVEY — DATE / BY / SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / AREAS CHECKED / NO.

Exc = 7,700.7 ✓
Emb = 0 ✓



191+00

Exc = 4283.3 ✓
Emb = 0 ✓



190+50

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. 83934

(53)

5488.75

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	76	87

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

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

Exc = 11,266.4 ✓
Emb = 0 ✓

℄

458.01

C=4879
F= 0

423.84

70
60
50
40
30
20

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

191+50

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

K & E CO. No. 345-3

(54)

54 SS. 76

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	77	87

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 = 17,770.8 ✓
Emb = ✓

℄

80
70
60
50
40
30
20

470.82
470.34

C = 7289
F = 0

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

192+00

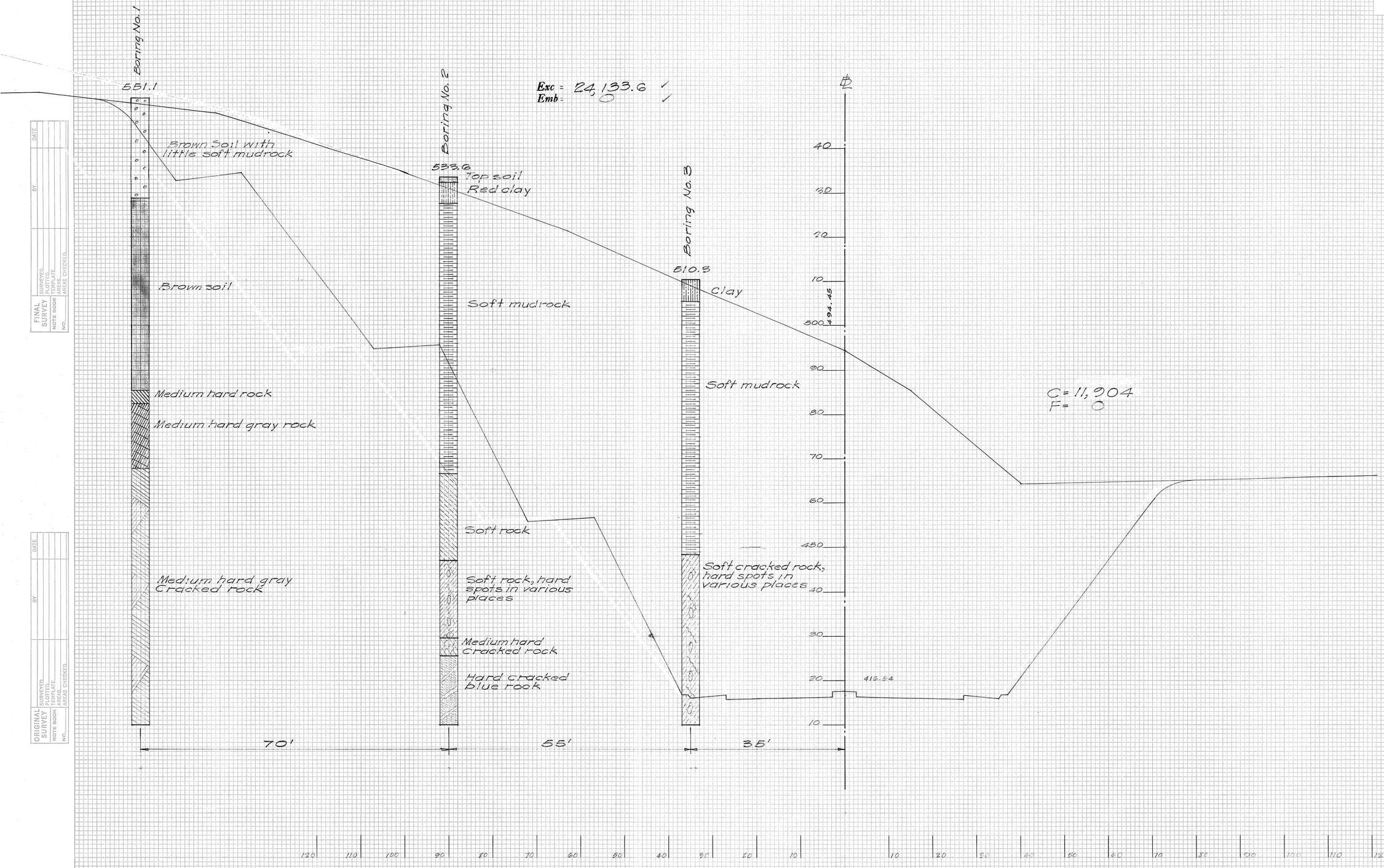
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3

(55)

5488.77

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S216(3)	1951	78	87



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. 25934

(56)

5488.78

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	79	87

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

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

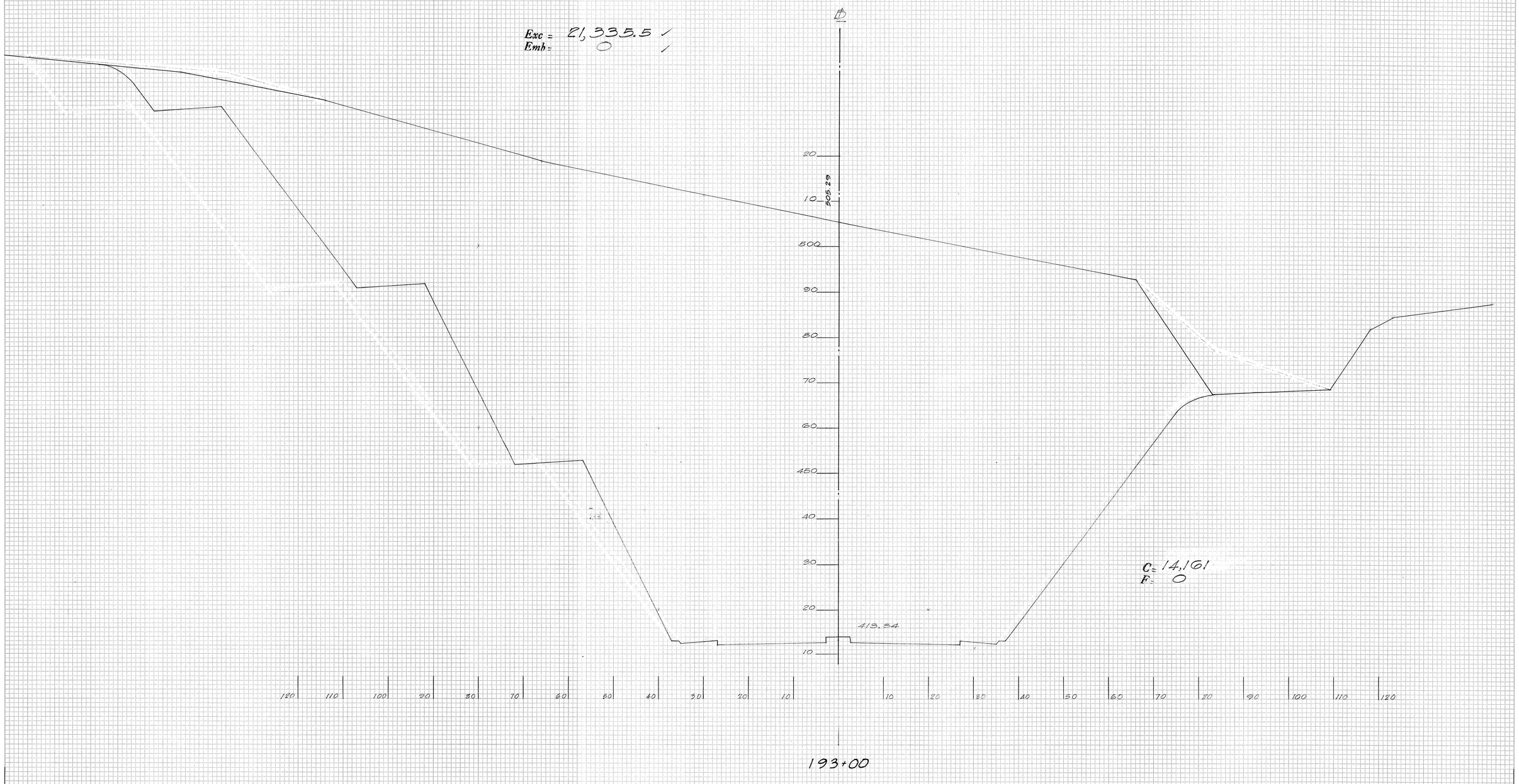


PLATE 3 - CROSS SECTION O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 88334

(57)

54SS.79

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	80	87

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

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



193+50

PLATE 3 - CROSS SECTION C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 20334

(58)

54SS.80

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	81	87

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

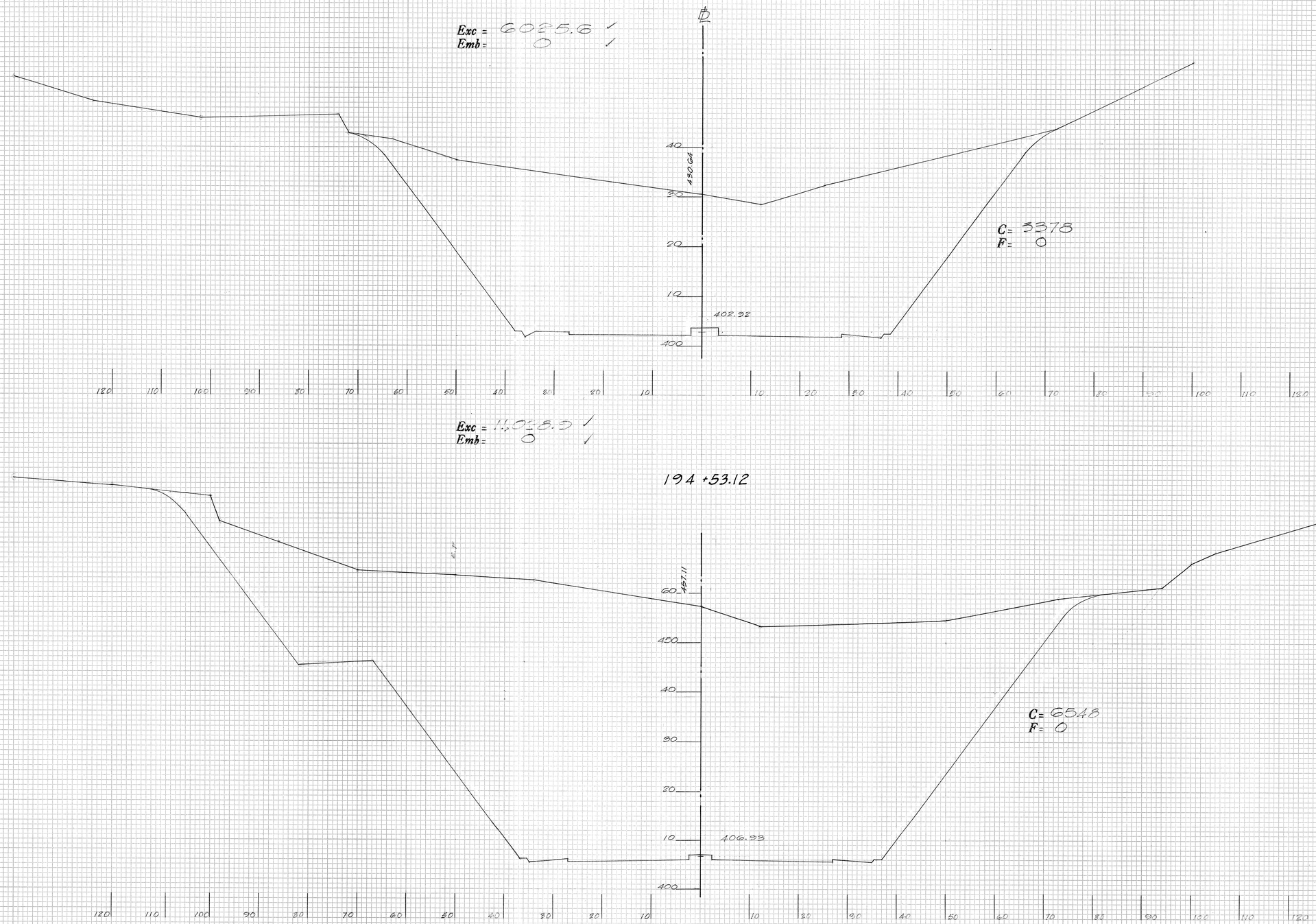
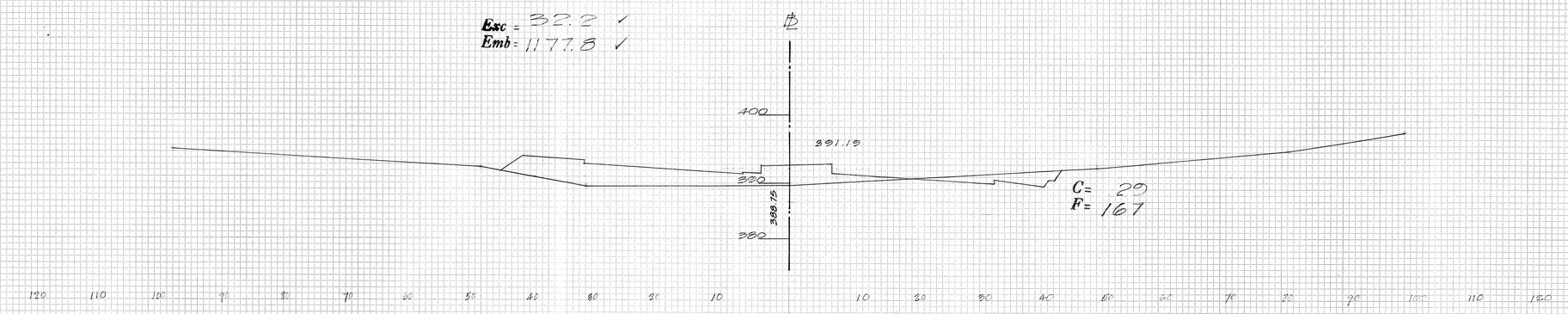


PLATE 3 - CROSS SECTION C.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 33334

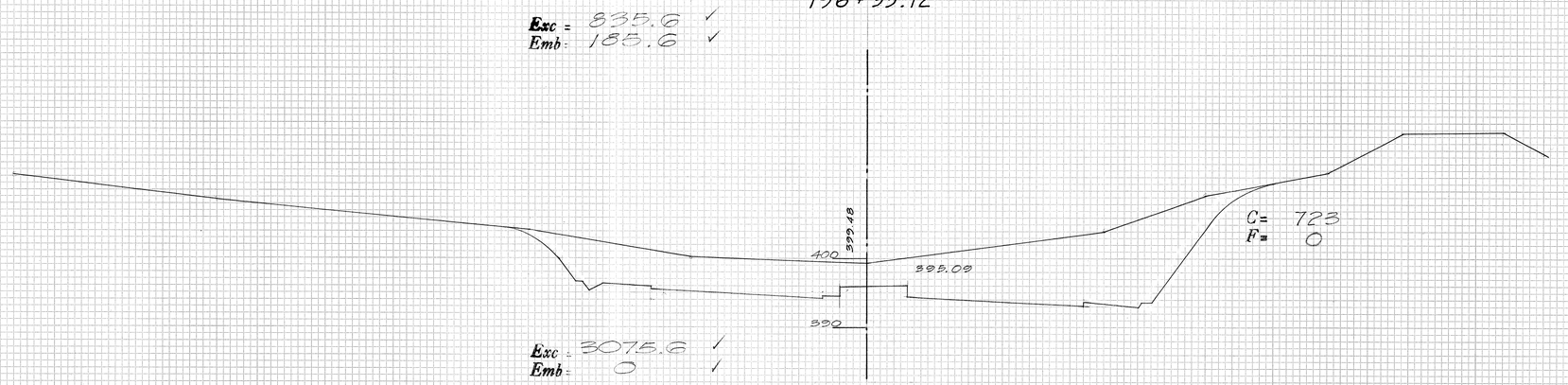
(59)

54SS.S1

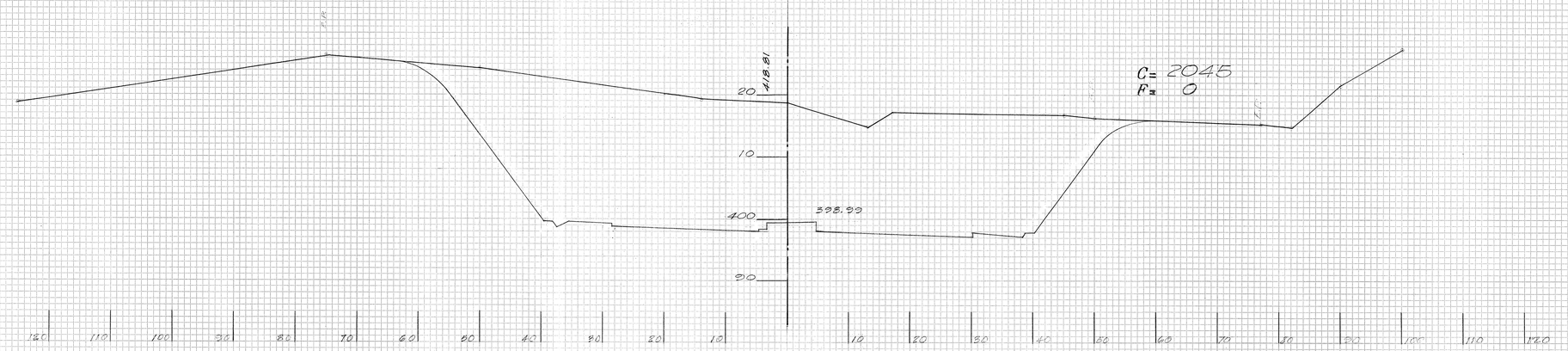
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	82	87



196 + 33.12



195 + 73.12



195 + 13.12

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

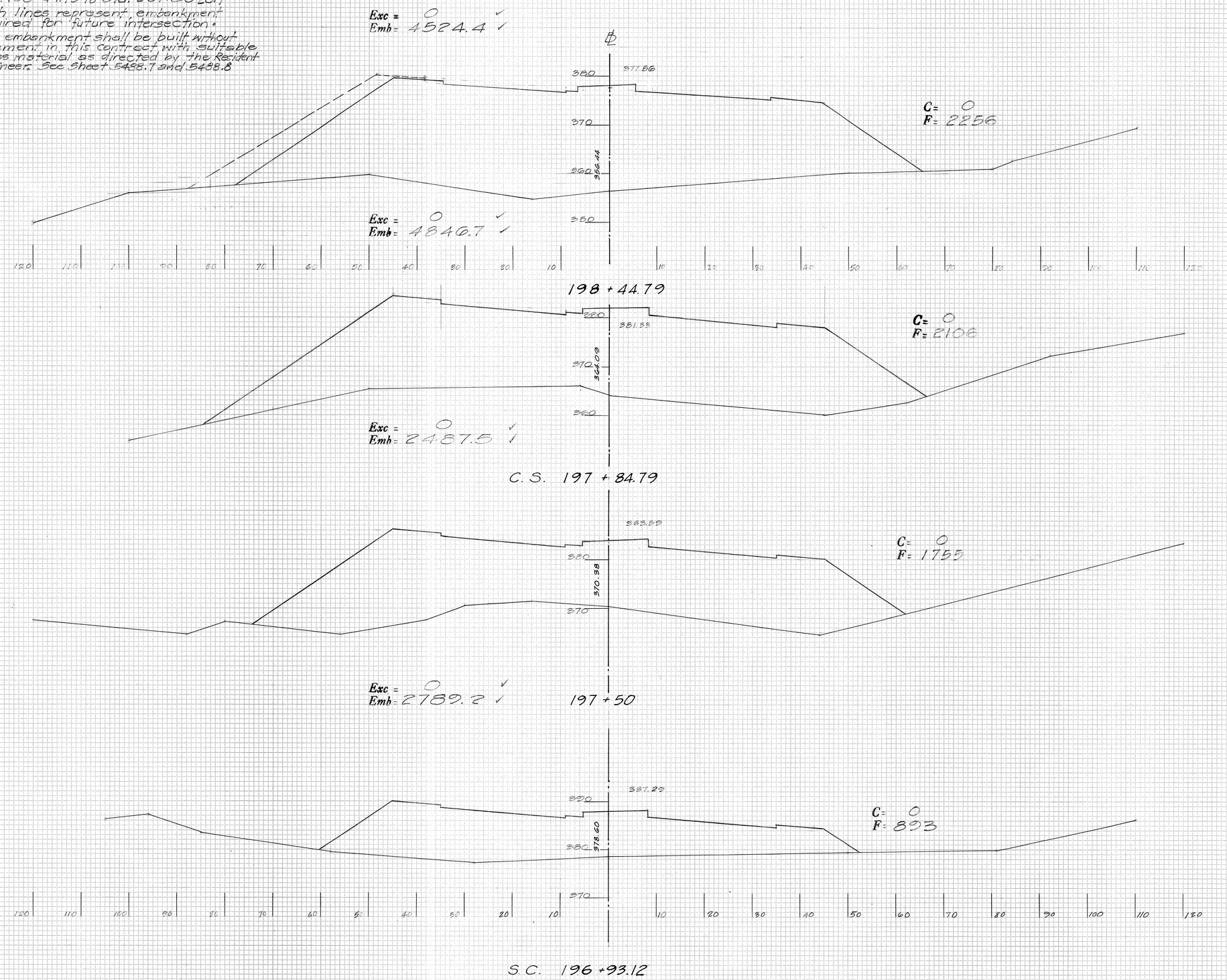
PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO., No. 345-3 MADE IN U.S.A. 28384

(60)

5488.82

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	83	87

NOTE! Sta. 198+44.79 to Sta. 201+50 Left
Dash lines represent embankment required for future intersection.
This embankment shall be built without pavement in this contract with suitable excess material as directed by the Resident Engineer. See Sheet 5488.7 and 5488.8



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

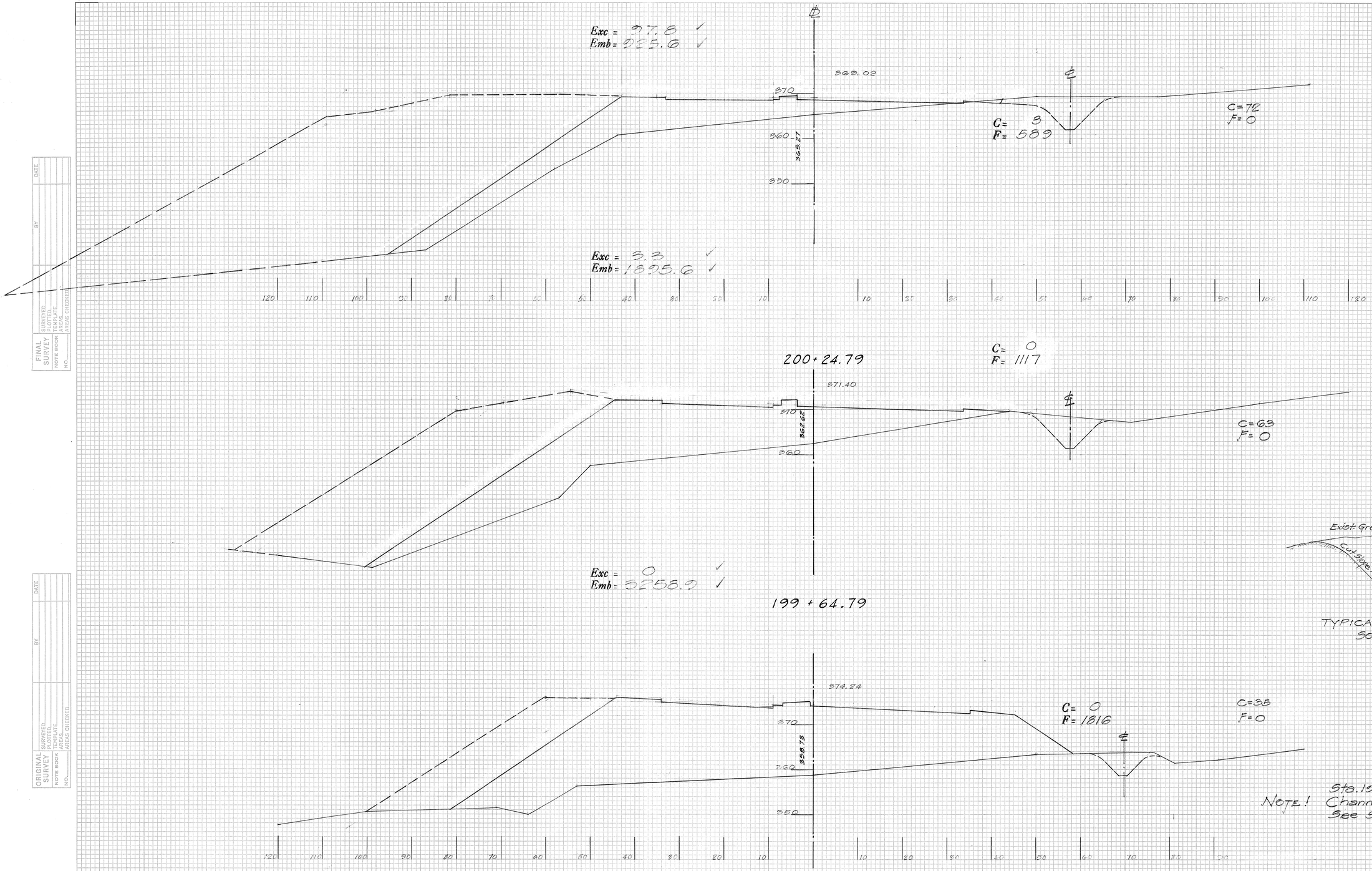
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

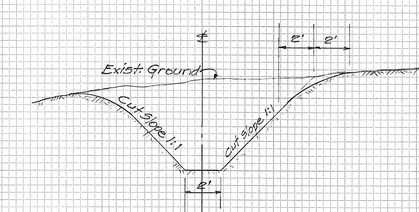
PLATE 3 - CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3

(61)

5488.83

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(5)	1951	84	87





TYPICAL CHANNEL SECTION
Scale 1/4" = 1'-0"

NOTE! Sta. 198+44.79 to Sta. 201+50 Right Channel as shown for drainage. See Sheet 5488.7

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

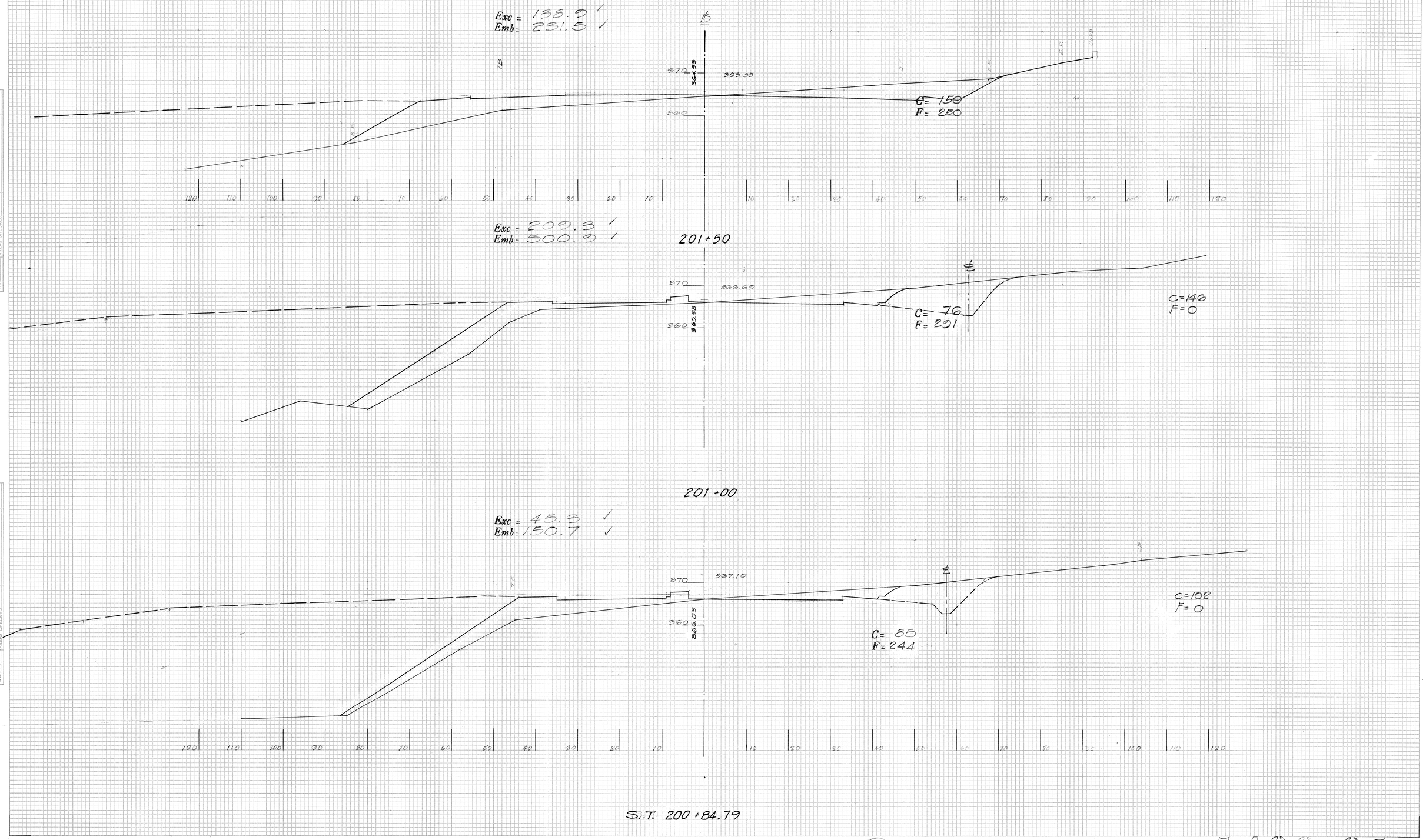
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

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. 23334

(62)

5488.84

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S216(3)	1951	85	87



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

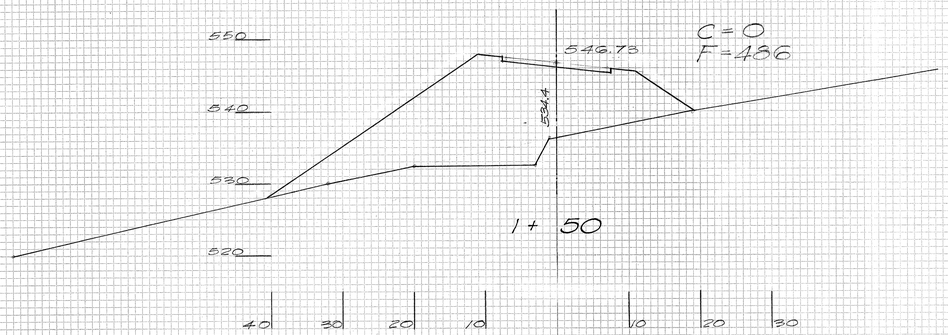
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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. 28334

(63)

5488.85

FED. ROAD DIST. NO.	STATE	FED. NO. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	32:B(3)	1951	86	87



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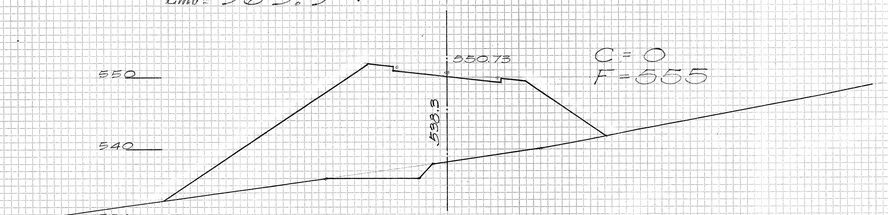
Emb = 963.9 ✓

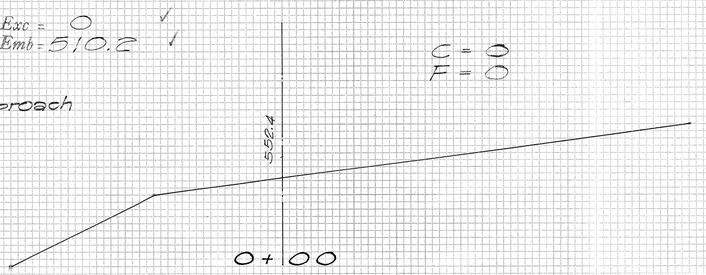


Exc = 0 ✓
Emb = 1024.1 ✓



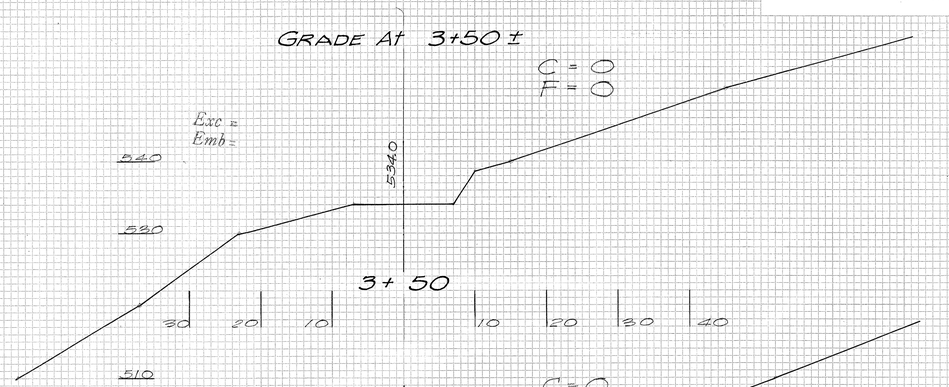
Exc = 0 ✓
Emb = 510.2 ✓

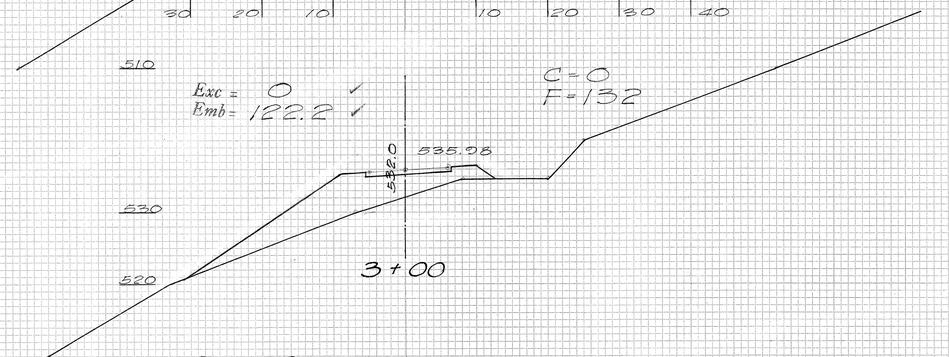
NOTE !
Fill slopes on this approach are drawn at 1½:1.

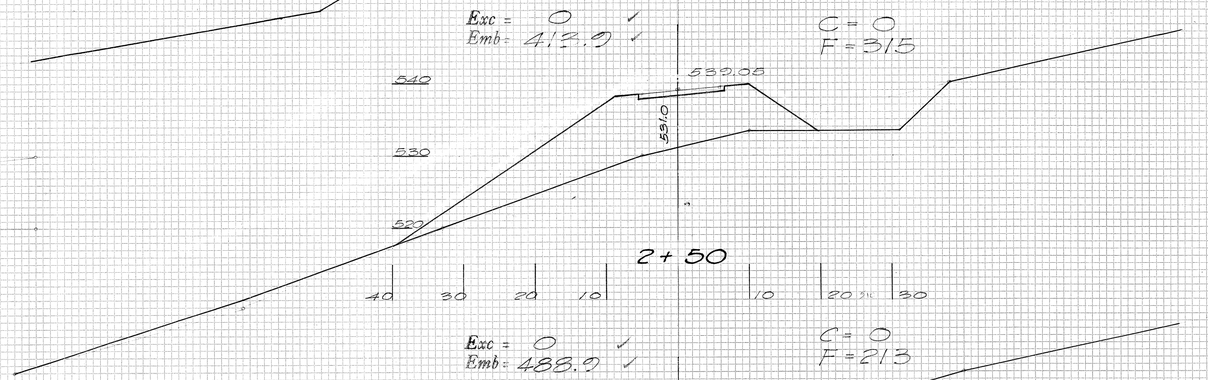


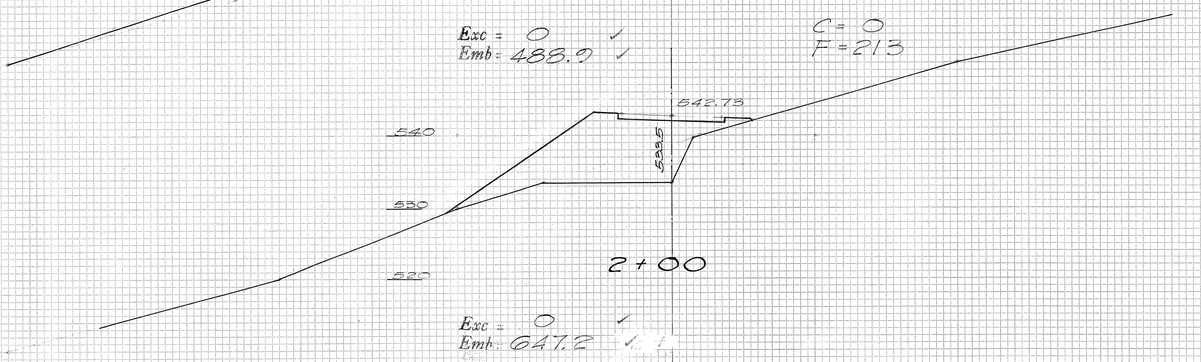
APPROACH AT ℄ P.O.T. 172+00
TO EXIST. SEMINARY ROAD

GRADE AT 3+50 ±

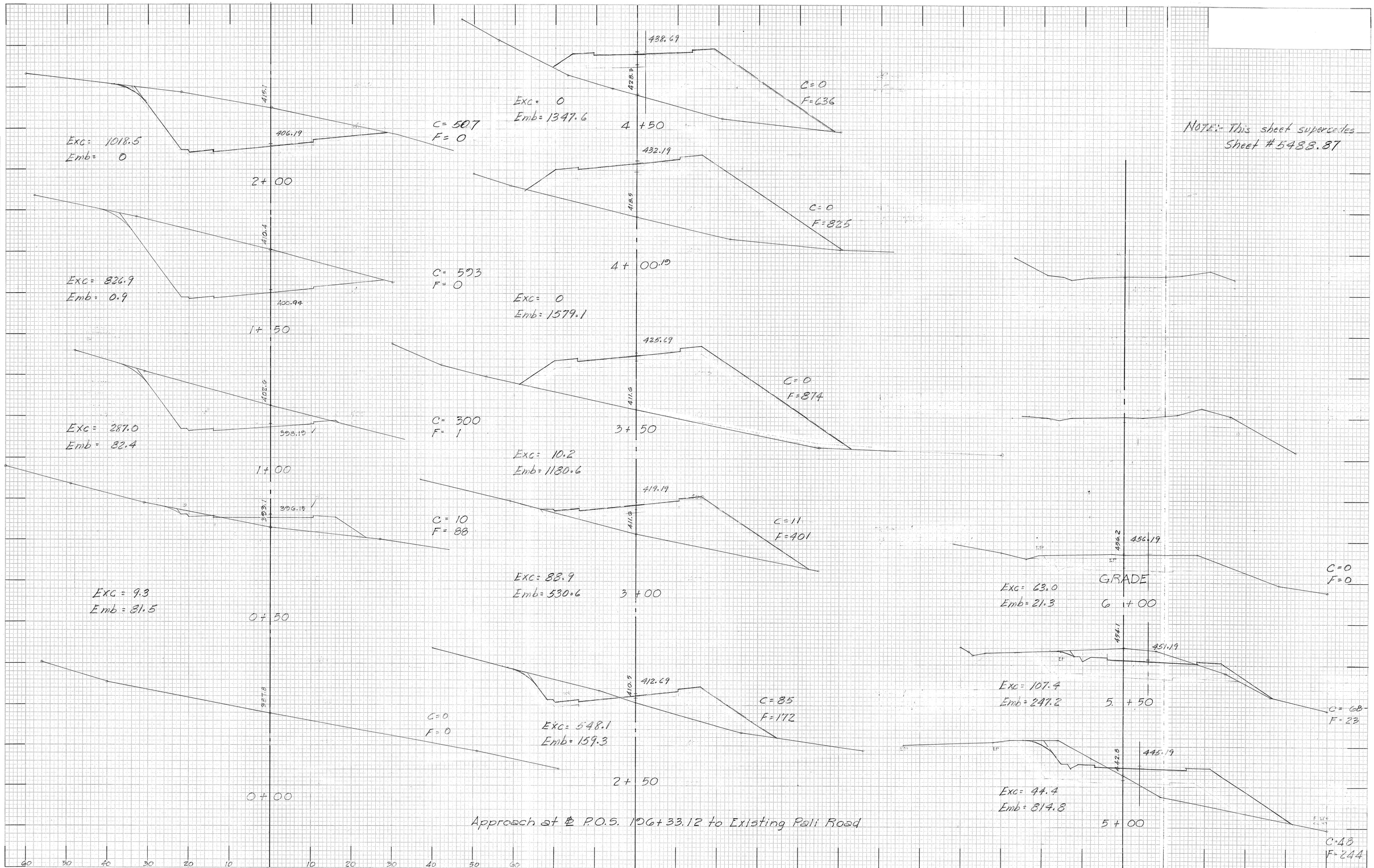








Exc = 0 ✓
Emb = 647.2 ✓

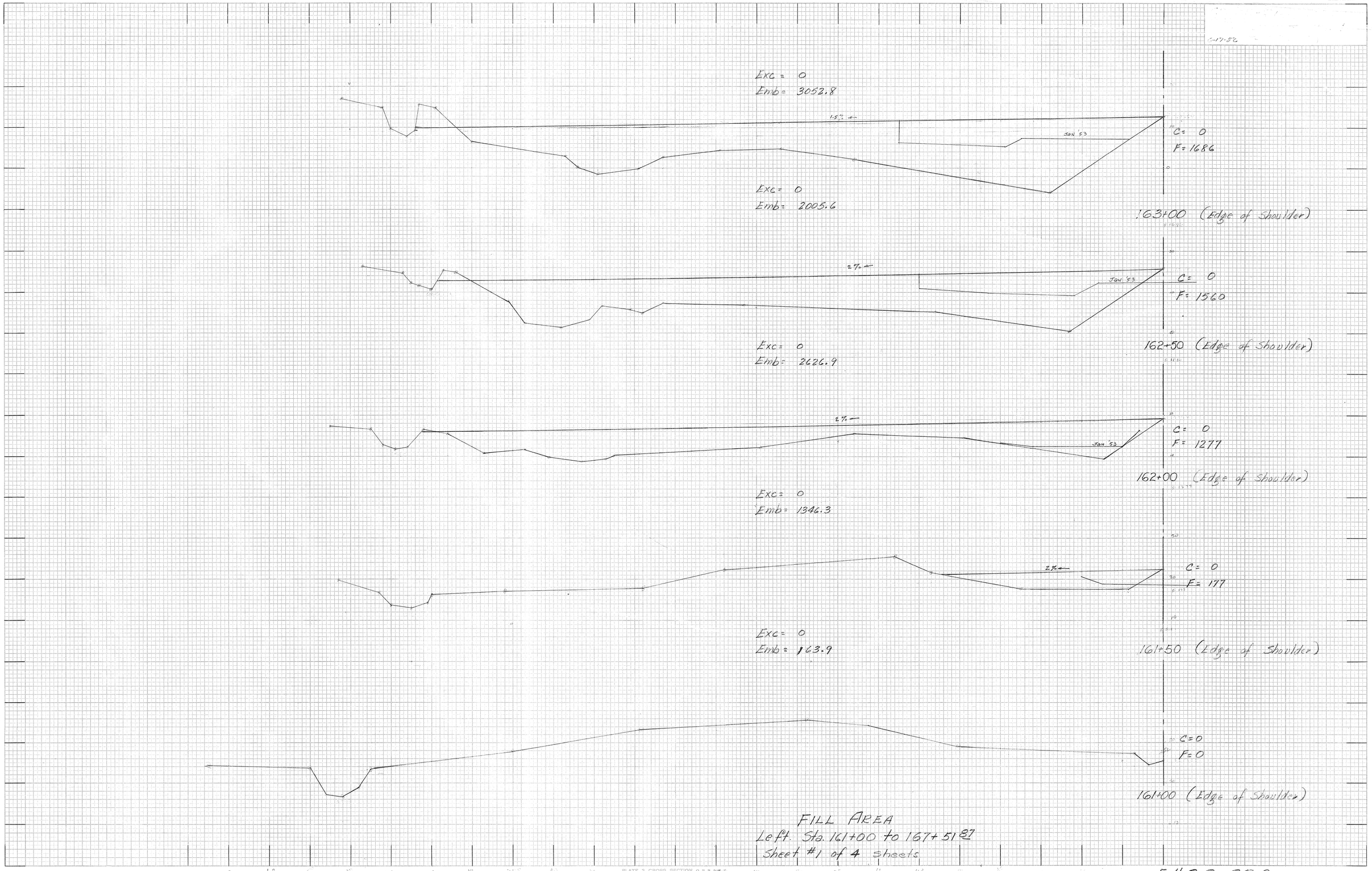


FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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

PLATE 3 CROSS SECTION D. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

5488.87A



Exc = 0
Emb = 3052.8
1.5%
JAN '53
C = 0
F = 1686
Exc = 0
Emb = 2005.6
163+00 (Edge of Shoulder)
2%
JAN '53
C = 0
F = 1560
Exc = 0
Emb = 2626.9
162+50 (Edge of Shoulder)
2%
JAN '53
C = 0
F = 1277
162+00 (Edge of Shoulder)
Exc = 0
Emb = 1346.3
2%
C = 0
F = 177
Exc = 0
Emb = 163.9
161+50 (Edge of Shoulder)
C = 0
F = 0
161+00 (Edge of Shoulder)
FILL AREA
Left. Sta. 161+00 to 167+51.87
Sheet #1 of 4 sheets

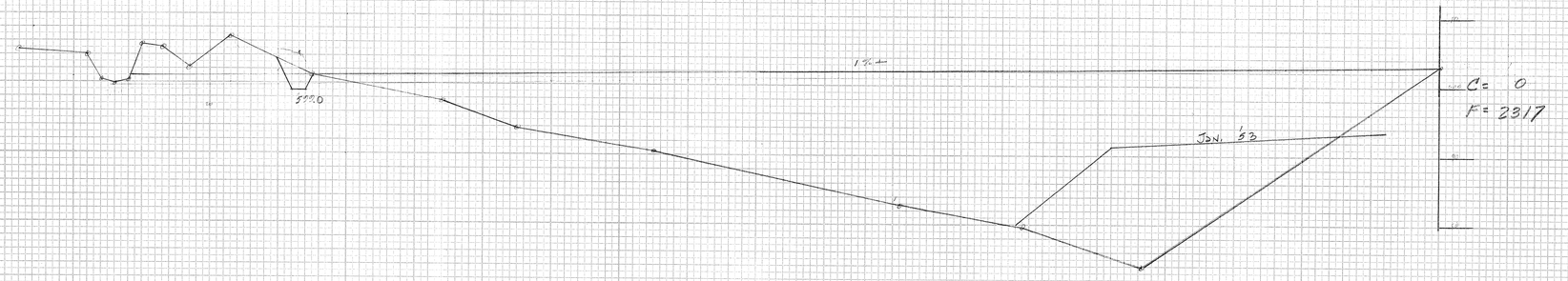
5488.87 B

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

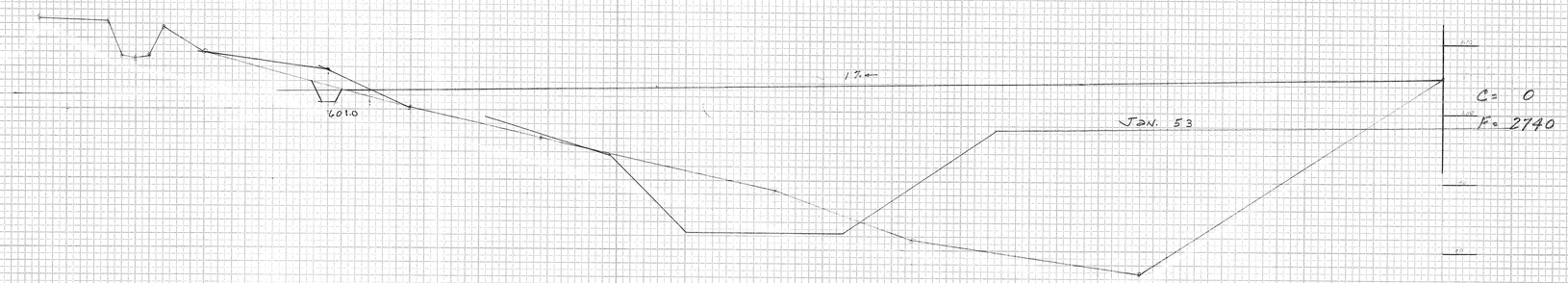
6-17-53

Exc = 0
Emb = 4091.7



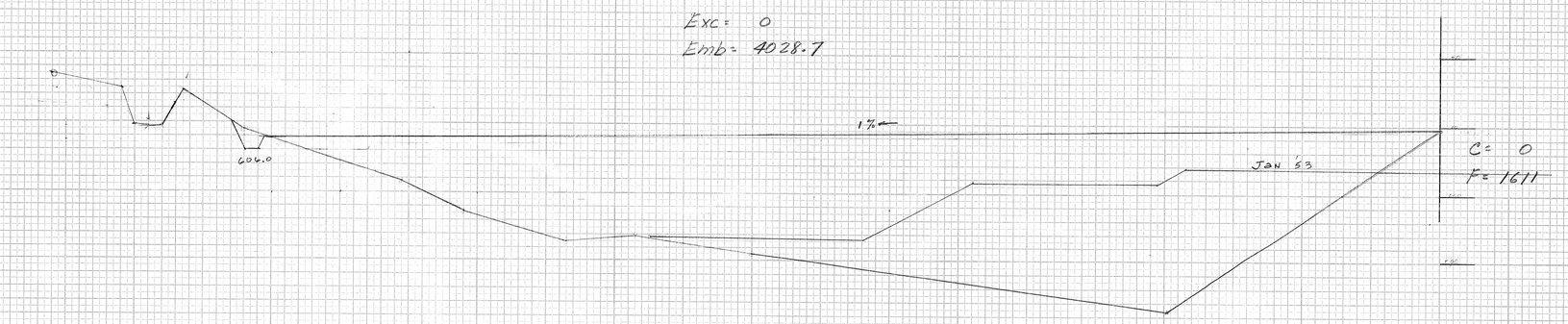
164+50 (Edge of shoulder)

Exc = 0
Emb = 4682.4



164+00 (Edge of shoulder)

Exc = 0
Emb = 4028.7

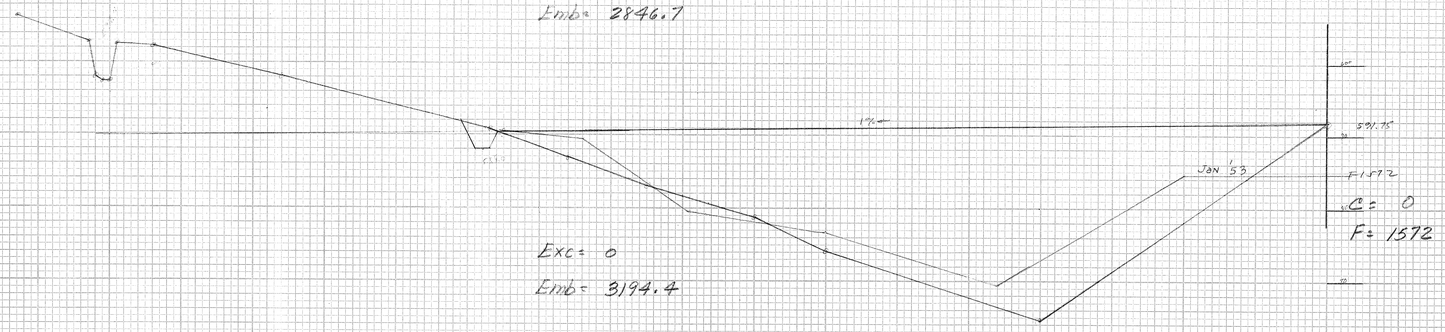


163+50 (Edge of Shoulder)

FILL AREA
Left Sta. 161+00 To 167+51.87
Sheet 2 of 4 Sheets

Exc = 0

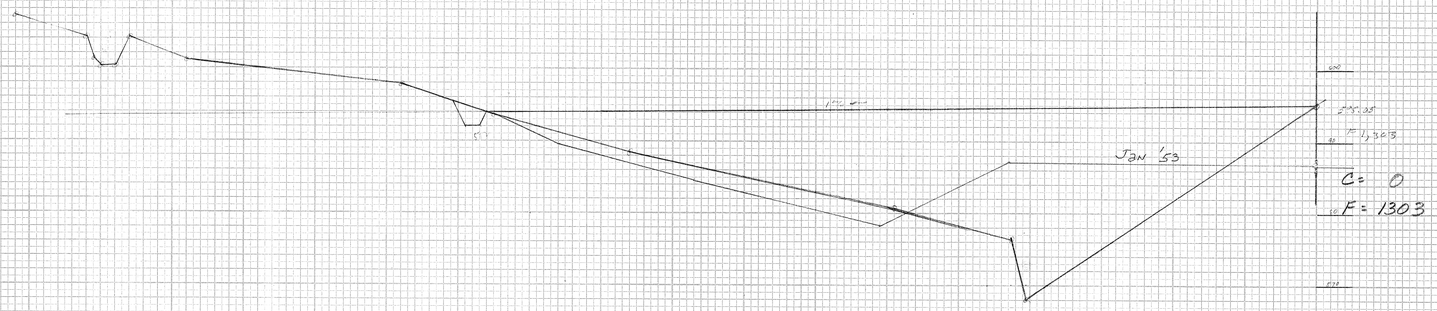
Emb = 2846.7



Exc = 0

Emb = 3194.4

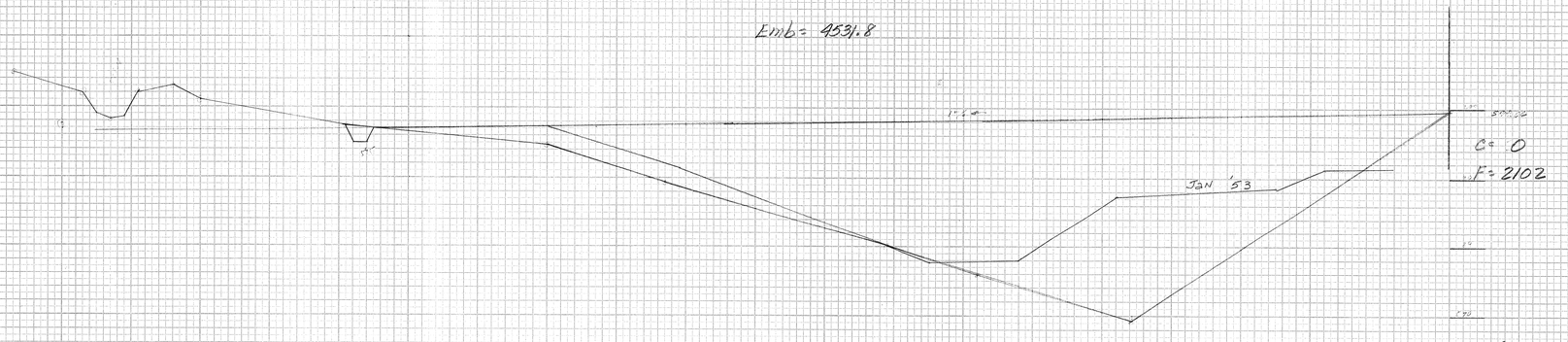
166+31.87 (Edge of Shoulder)



165+71.87 (Edge of Shoulder)

Exc = 0

Emb = 4531.8



FILL AREA

Left Sta. 161+00 to Sta. 167+51.87

Sheet 3 of 4 Sheets

165+00 (Edge of Shoulder)

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

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

PLATE 3 CROSS SECTION C. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U. S. A.
CHARLES BRUNING COMPANY

5488.87D

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

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

C = 0
F = 0

168+11.87

Exc = 0
Emb = 213.3

C = 0
F = 192

167+51.87 (Edge of Shoulder)

Exc = 0
Emb = 1313.3

C = 0
F = 990

166+91.87 (Edge of Shoulder)

FILL AREA
Left Sta. 161+00 to Sta. 167+51.87
Sheet 4 of 4 Sheets

PLATO 3 CROSS SECTION C. P. P. & E.
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(69)

5488.87E