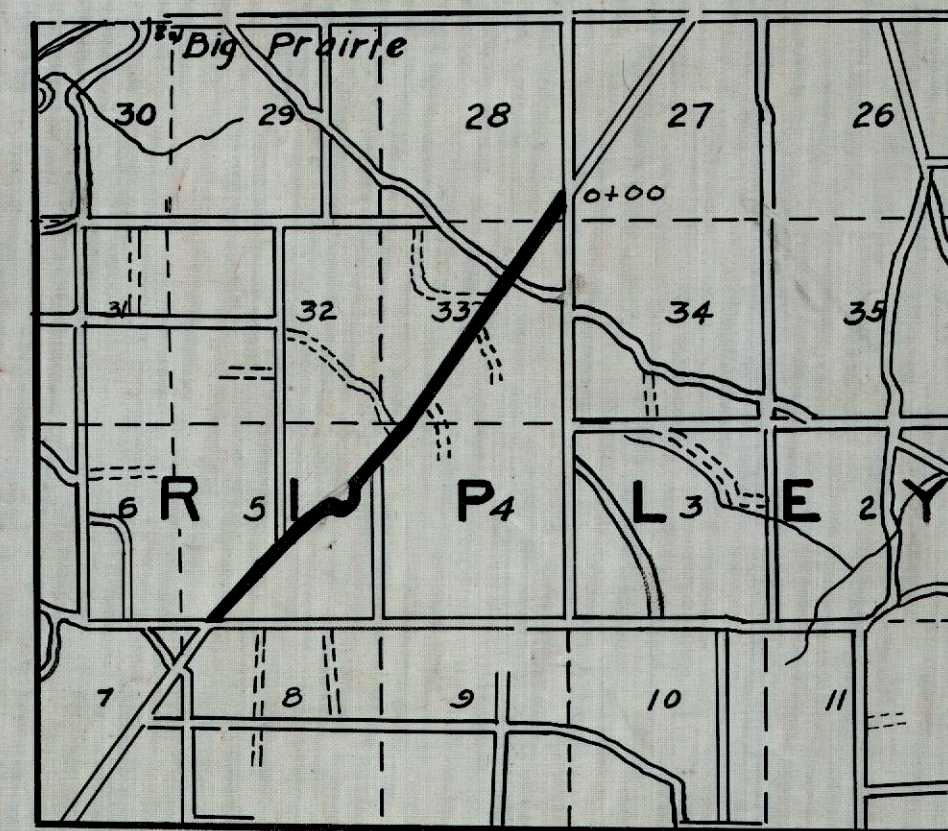


HOLMES COUNTY

DIVISION OF CONSTRUCTION
NEWARK-WOOSTER
SECTION-B ROAD NO. 3.
RIPLEY TOWNSHIP

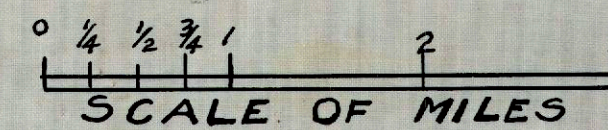


INDEX OF SHEETS

Title and Standard Sections	Sheets	
Plans and Profile	"	2-6
Cross Sections	"	7-19
Summary of Quantities	"	25
Culverts and Bridges	"	20-24

The Standard Specifications of the State of Ohio, Division of Highways, in force on August 25, 1925 will govern this improvement unless otherwise shown.

LOCATION PLAN



PORTION TO BE IMPROVED

I hereby approve the plans and declare that the making of this improvement will not require the closing to traffic of the Highway.

Approved Mar. 21-1927

Karl Snyder
County Surveyor

We, the Commissioners of Holmes County, hereby approve these plans and certify that the Right-of-Way 60 feet wide is available for the construction, maintenance and repair of the above Highway.

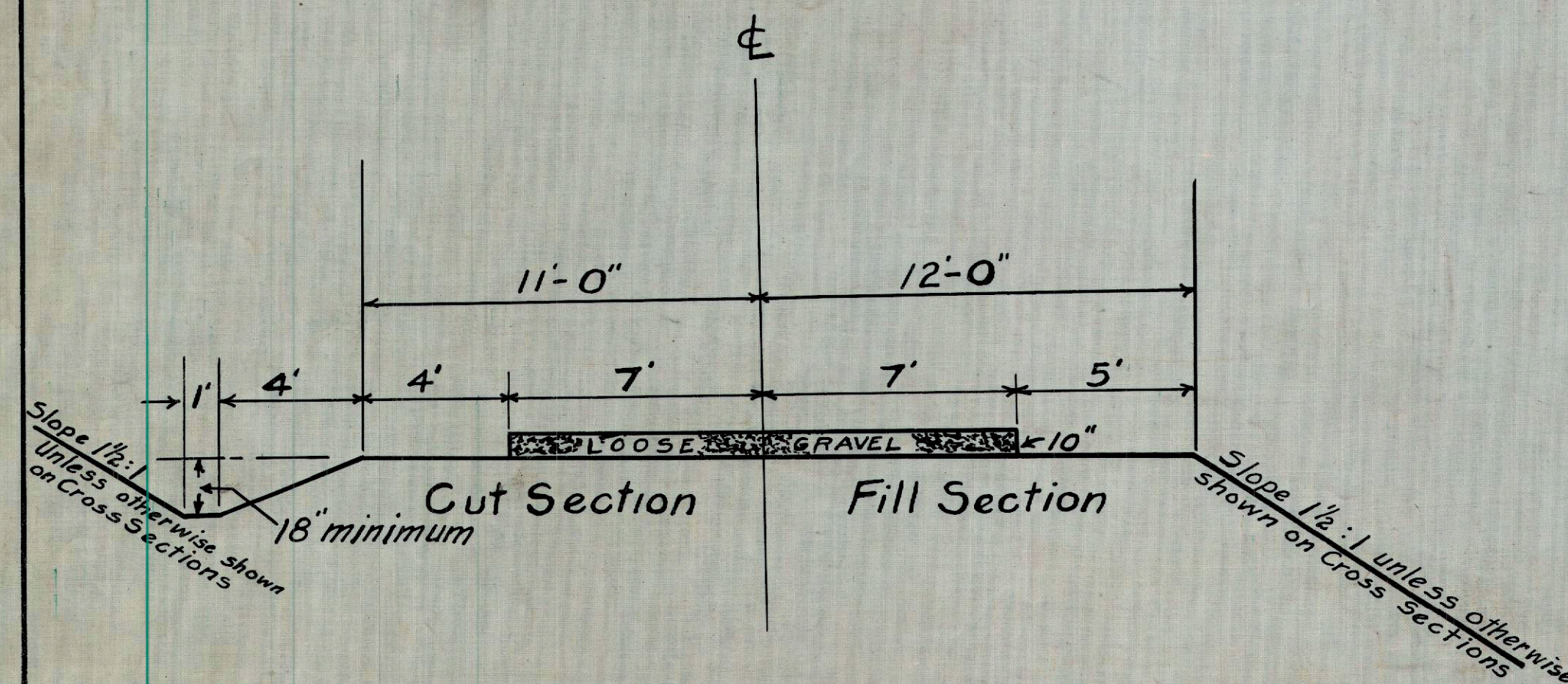
Approved Mar. 21-1927,

N. H. Allison.

J. A. Mufflet
G. W. Hanna
County Commissioners.

SCALES

Plan	1" = 100'
Profile (Vertical)	1" = 100'
Profile (Horizontal)	1" = 10'
Cross Sections	1" = 5'



TYPICAL CROSS SECTION UNLESS

OTHERWISE SHOWN ON CROSS SECTION SHEETS

Gravel shall be spread uniformly to thickness shown by staking forms on the sides and using a strike-off or by using an adjustable spreader box. The contractor shall keep the placed gravel dragged until all the gravel has been placed.

Specifications for Gravel

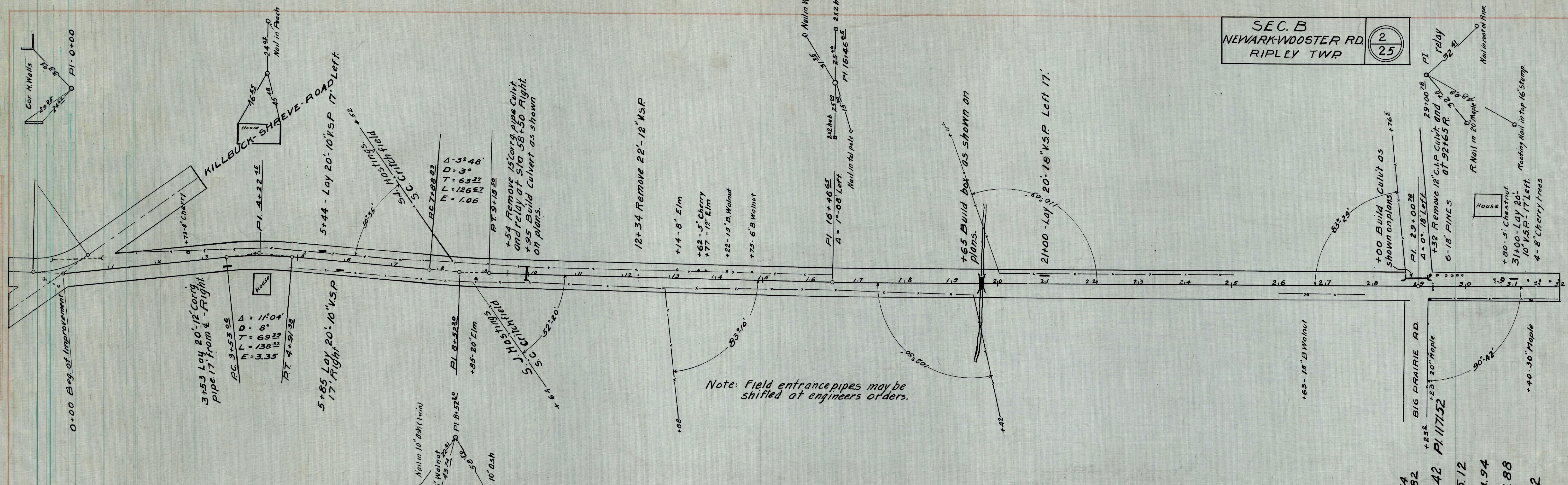
The gravel shall consist of hard durable stone. The particles shall be of such a size that all will pass a 1 3/4" circular opening. No free lumps of dirt or clay shall be present.

Grading

Passing a 1/2" screen not less than 95%
Retained on a 1/4" screen not less than 75-85%
Of the coarse material (material over 1/4" in size) at least 50% and not more than 80% shall be retained on a 3/4" screen.
All material passing a 1/4" screen shall not contain more than 8% of clay or dirt.

SEC. B
NEWARK-WOOSTER RD
RIPLEY TWP

2
25



Note: Field entrance pipes may be shifted at engineers orders.

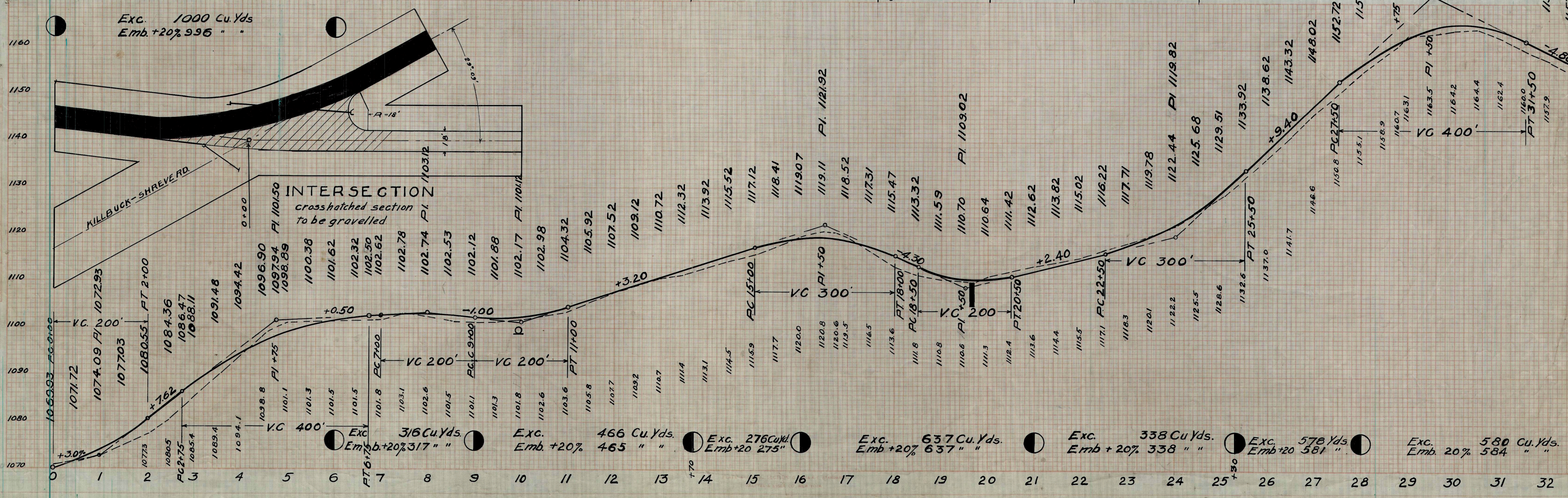
BM. 1074.02
on SE. Cor. Hwall.
Left
0+90

BM. 1105.56
Spike in root of Apple
Left
7+12

BM. 1110.59
Spike in root of Elm.
Right
12+85

BM. 1112.00
Nail in root of Walnut
Right
18+50

BM. 1121.21
Nail in root of Walnut
Left
23+25



INTERSECTION
crosshatched section
to be gravelled

Exc. 316 Cu. Yds.
Emb. +20% 317 " "

Exc. 466 Cu. Yds.
Emb. +20% 465 " "

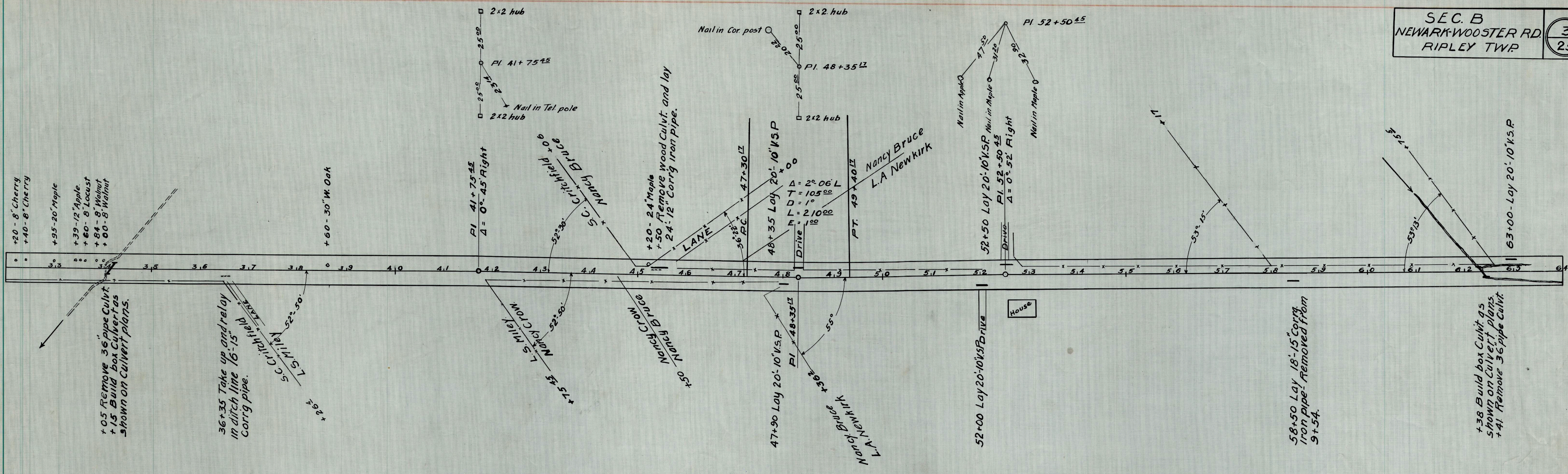
Exc. 276 Cu. Yds.
Emb. +20 275 " "

Exc. 637 Cu. Yds.
Emb. +20% 637 " "

Exc. 338 Cu. Yds.
Emb. +20% 338 " "

Exc. 578 Yds.
Emb. +20 581 " "

Exc. 580 Cu. Yds.
Emb. 20% 584 " "



BM 1151.06
Spike in root of Walnut
Right 34+60

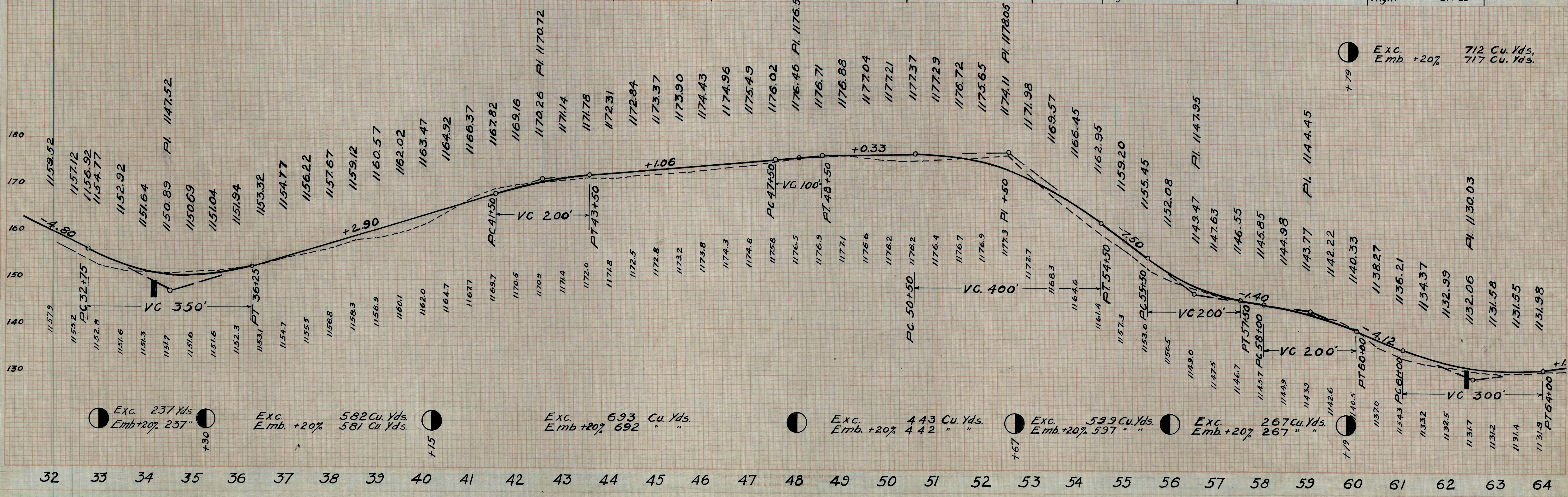
BM 1173.18
Nail in root W. Oak
Lt 45+30

BM 1174.65
Spike in root of Apple
Left 51+20

BM 1159.63
Spike in 18" Cherry
Right 55+60

BM 1132.93
Spike in root W. Cherry
Right 61+85

Exc. 712 Cu. Yds.
Emb. +20% 717 Cu. Yds.



Exc. 237 Yds.
Emb. +20% 237"

Exc. 582 Cu. Yds.
Emb. +20% 581 Cu. Yds.

Exc. 693 Cu. Yds.
Emb. +20% 692 "

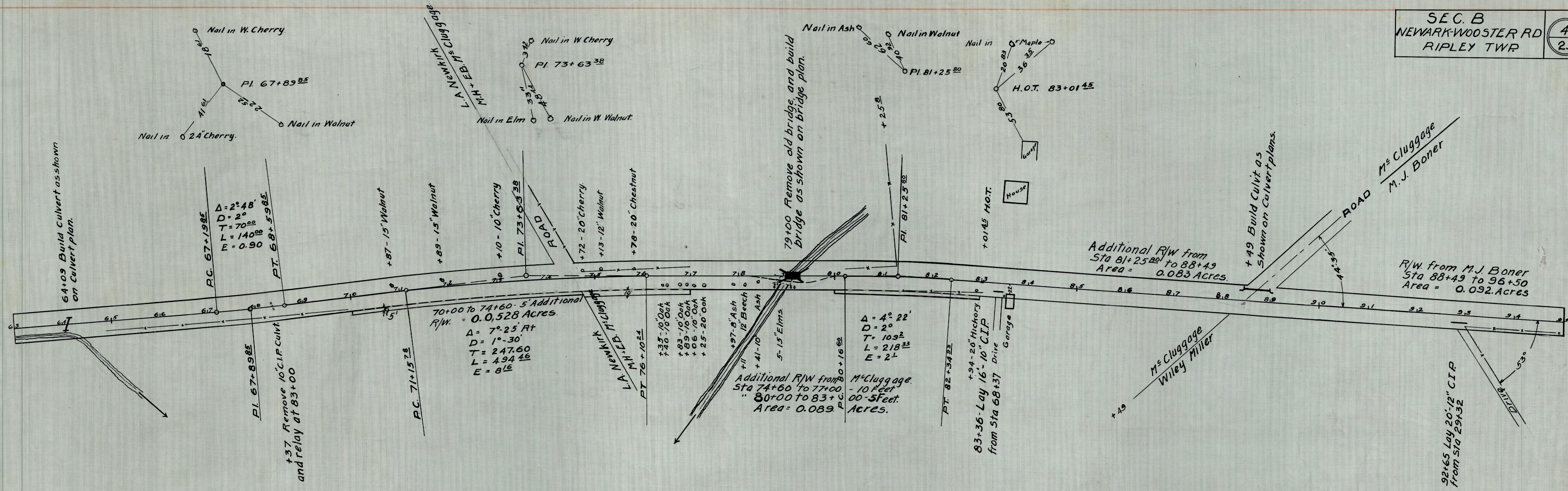
Exc. 443 Cu. Yds.
Emb. +20% 442 "

Exc. 599 Cu. Yds.
Emb. +20% 597 "

Exc. 267 Cu. Yds.
Emb. +20% 267 "

FINAL SURVEY DATE
BY: []
CHECKED: []
APPROVED: []

ORIGINAL SURVEY DATE
BY: []
CHECKED: []
APPROVED: []



BM 1140.88
2 Spikes in root W Cherry
Right 67+55

BM 1148.34
+ on stone
75' Left 70+20

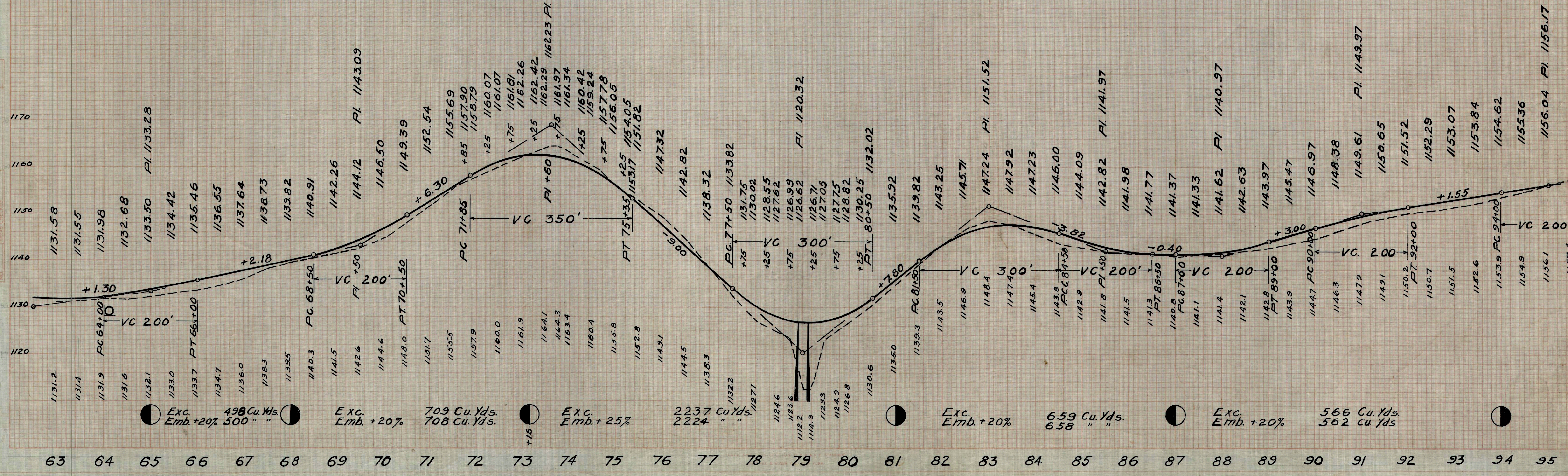
BM 1164.47
Spike in root W Cherry
Lt 73+70

BM 1158.19
Spike in root R Oak
Rt 75+80

BM 1122.48
Spike in root of Beech
Right 77+20

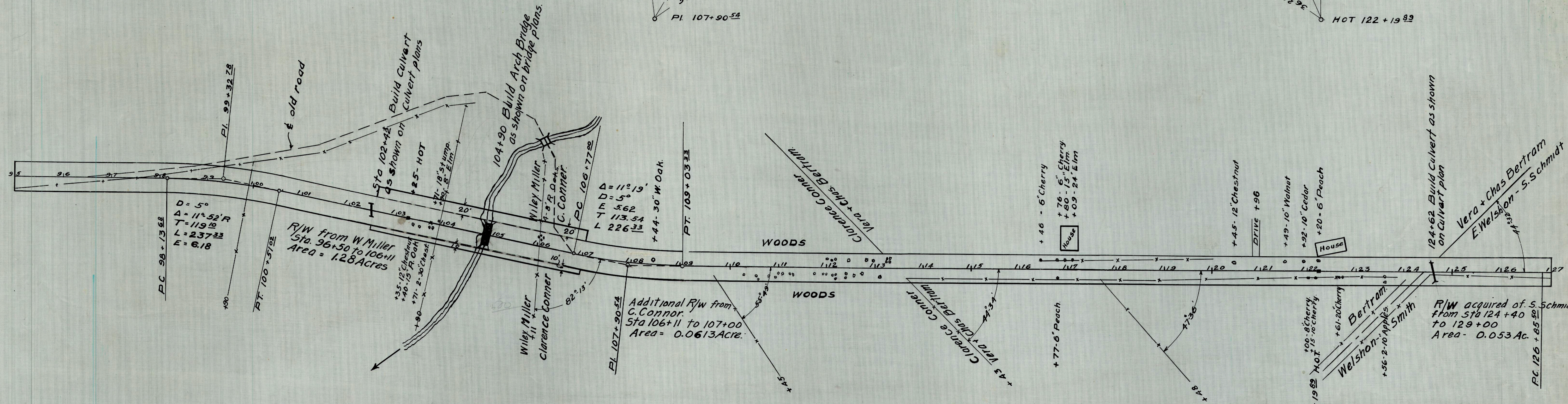
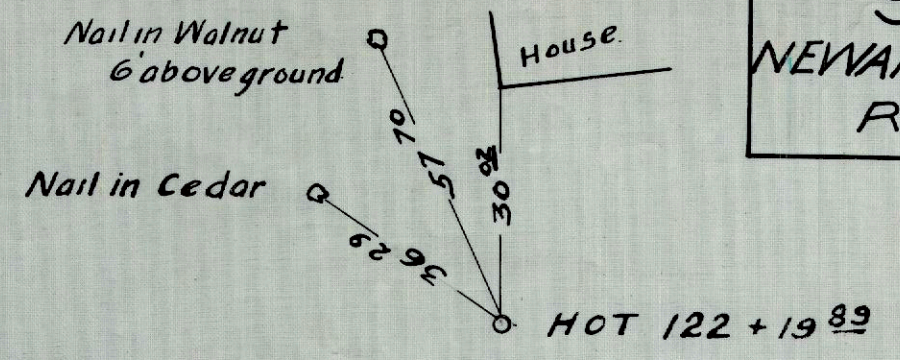
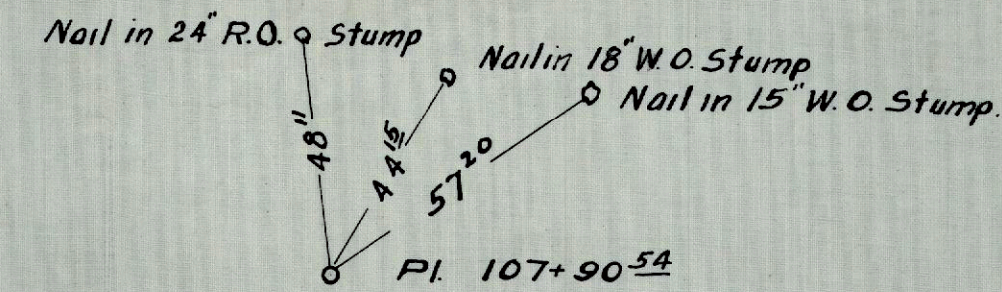
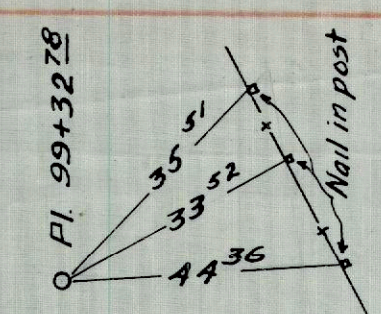
BM 1149.48
Spike in root of Maple
Lt 83+34

BM 1141.36
Spike in root Red Oak
Right 88+00



FINAL SURVEY NOTE BOOK NO. 103 CHECKED

ORIGINAL DRAWING SURVEY PLOTTED DATE



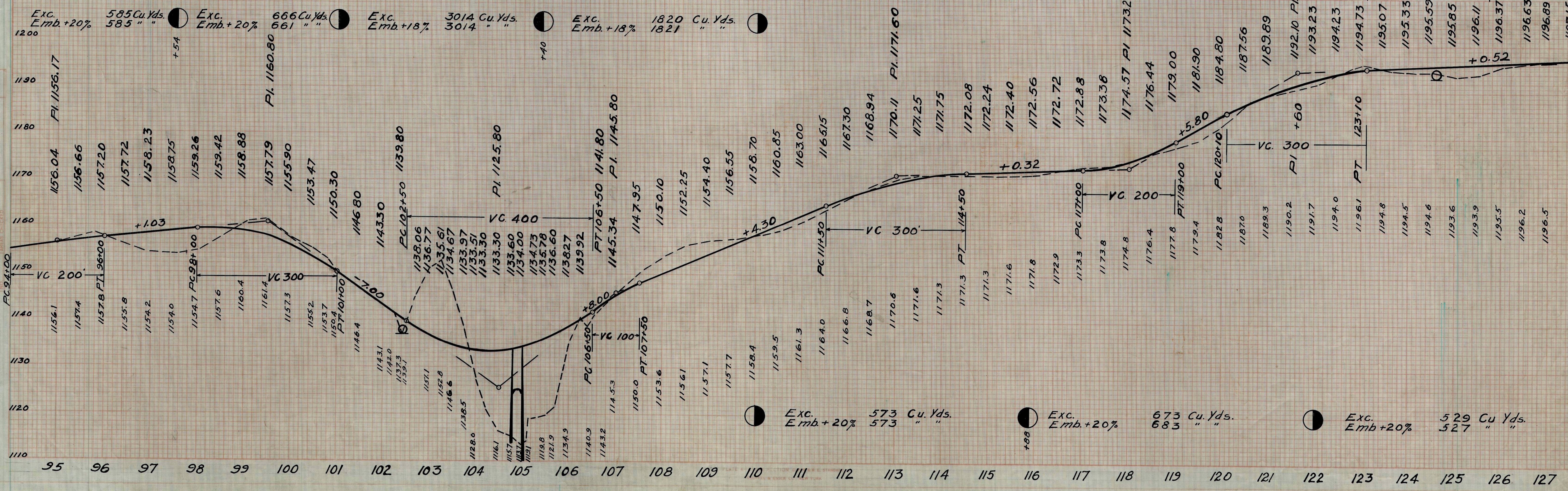
BM. 1153.54
Spike in root of Apple
400' Right 97+00

BM 1143.12
FR Spike in W Oak
200' Left 102+00

BM 1121.88
2 Spikes in root 18' tree
40' Right 105+60

BM 1173.79
2 Spikes in 20' Chestnut
Rt. 113+25

BM 1192.57
2 Spikes in root of Elm
Left 124+20

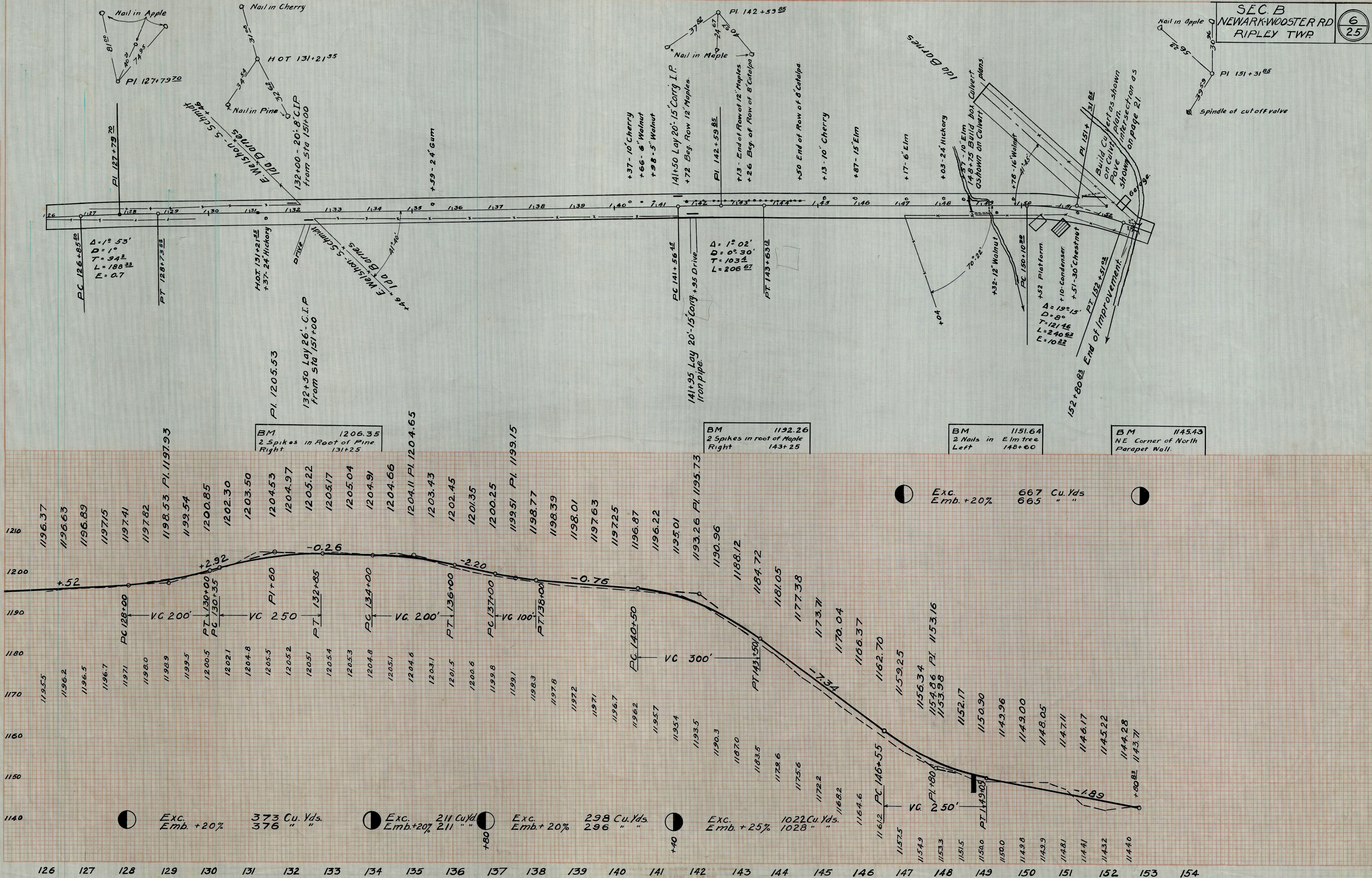


FINAL SURVEY DRAWING
DATE: _____
BY: _____
CHECKED BY: _____
DATE: _____

ORIGINAL SURVEY FACED
DATE: _____
BY: _____
CHECKED BY: _____
DATE: _____

FINAL SURVEY PLOTTED TEMPLATE NOTE BOOK NO. DATE BY

ORIGINAL SURVEY PLOTTED TEMPLATE NOTE BOOK NO. DATE BY

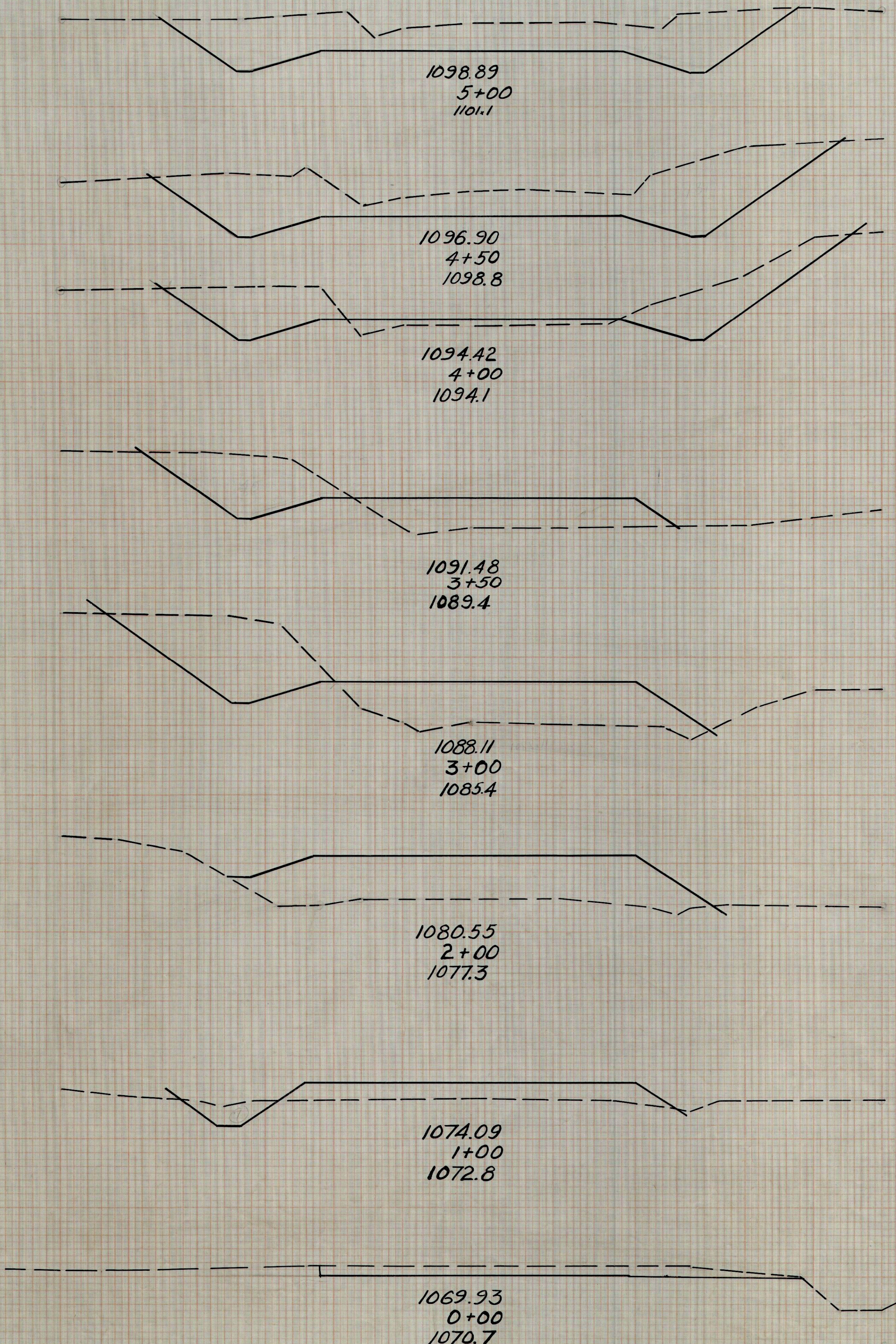


FINAL SURVEY PLOTTED
 NO. 1000000000

ORIGINAL SURVEY PLOTTED
 NO. 1000000000

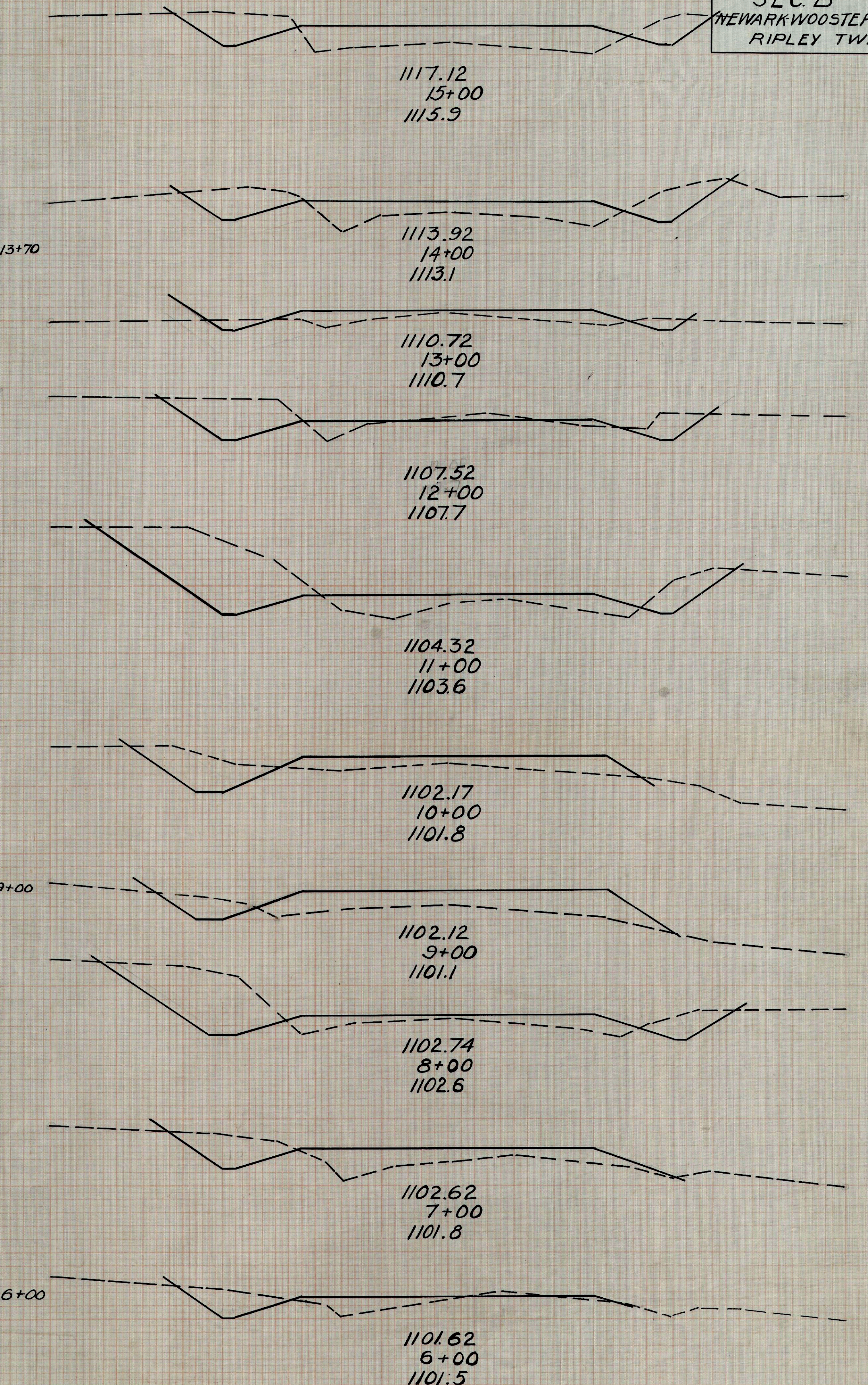
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
108 0		222 0	
131 0		189 9	
73 10		105 51	
40 45		93 107	
60 71		111 324	
0 104		13 256	
7 34		63 63	
27 0			

Exc. Emb. 1000 Cu Yds. 830 " "



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
22 40		94 130	
29 30		57 83	
2 15		52 39	
26 6		169 57	
65 25		157 98	
20 28		52 135	
8 45		107 120	
50 20		120 87	
15 27		89 57	
13 11		204 20	

Exc. Emb. 466 Cu. Yds. 387 " "

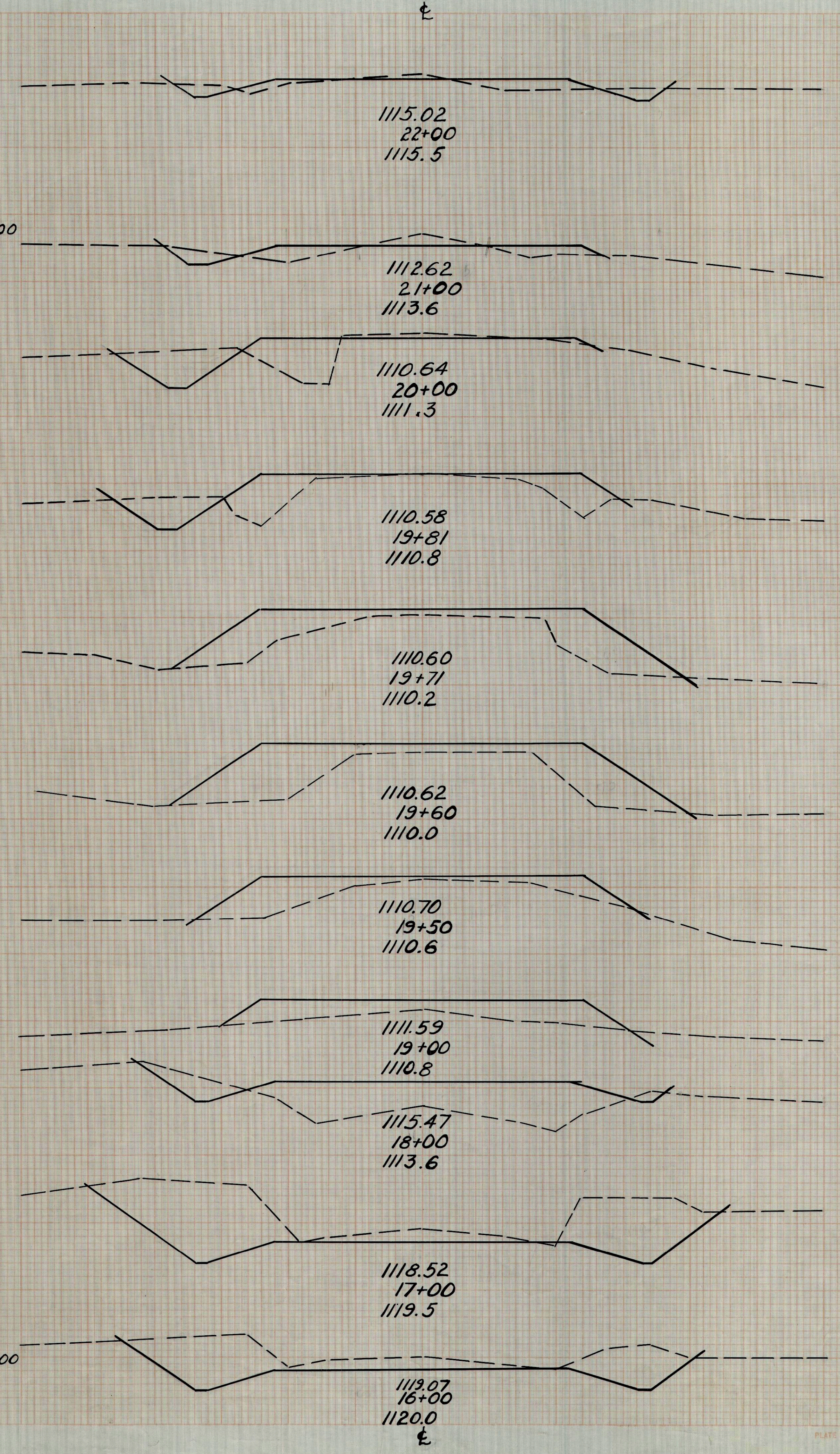


SEC. B
 NEWARK WOODSTER RD
 RIPLEY TWP
 7/25

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 ROUTE BOOK
 NO.

End Area	Cu. Yds.
Cut	Fill
8	11
	30
	43
8	12
	54
	57
21	19
	12
	18
12	31
	2
	17
0	60
	0
	28
0	75
	0
	21
0	38
	0
	72
0	40
	15
	196
8	66
	224
	122
113	0
	330
	0
65	0
	161
	74

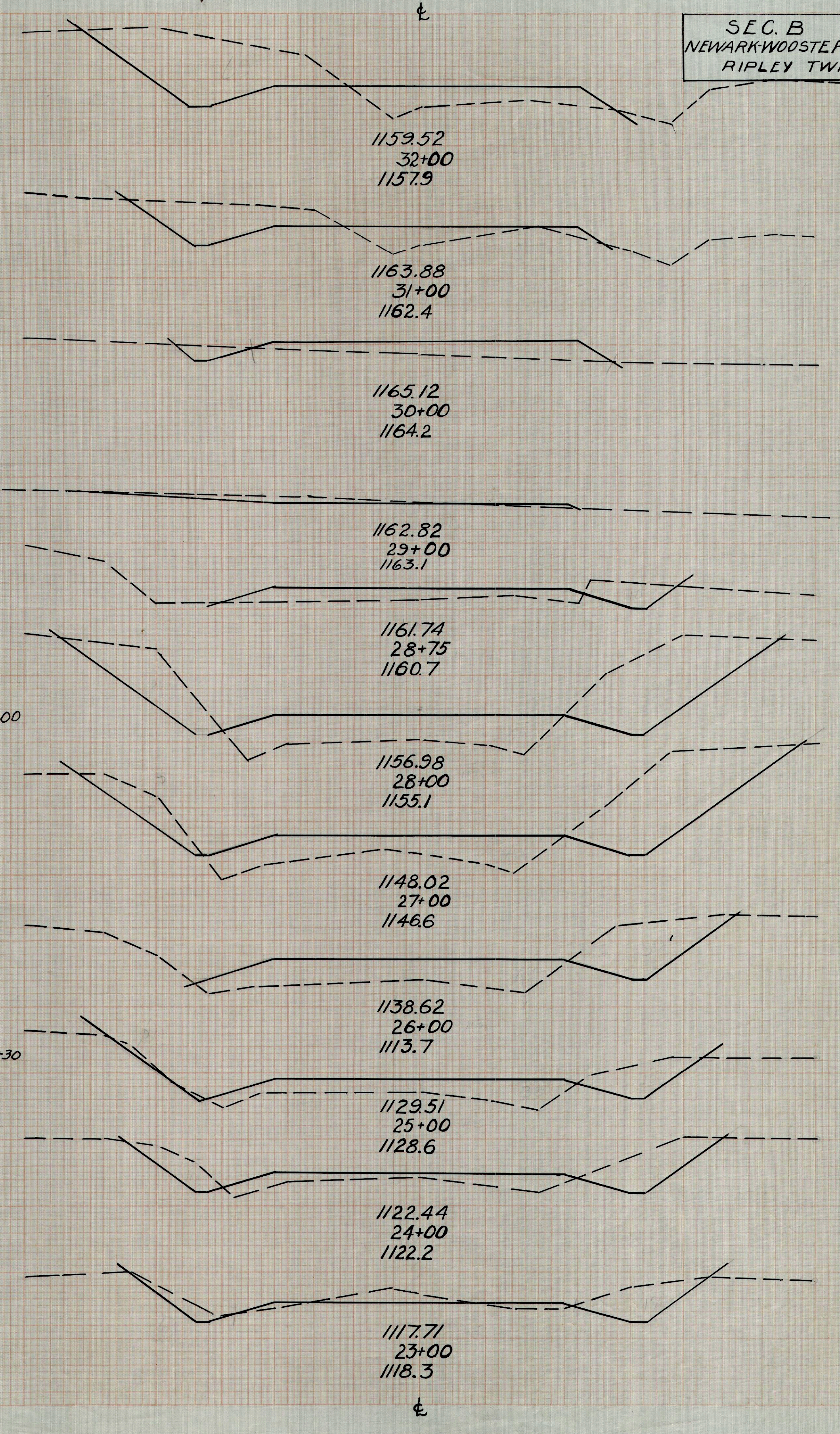
Excavation 637 Cu. Yds.
Embankment 531 "



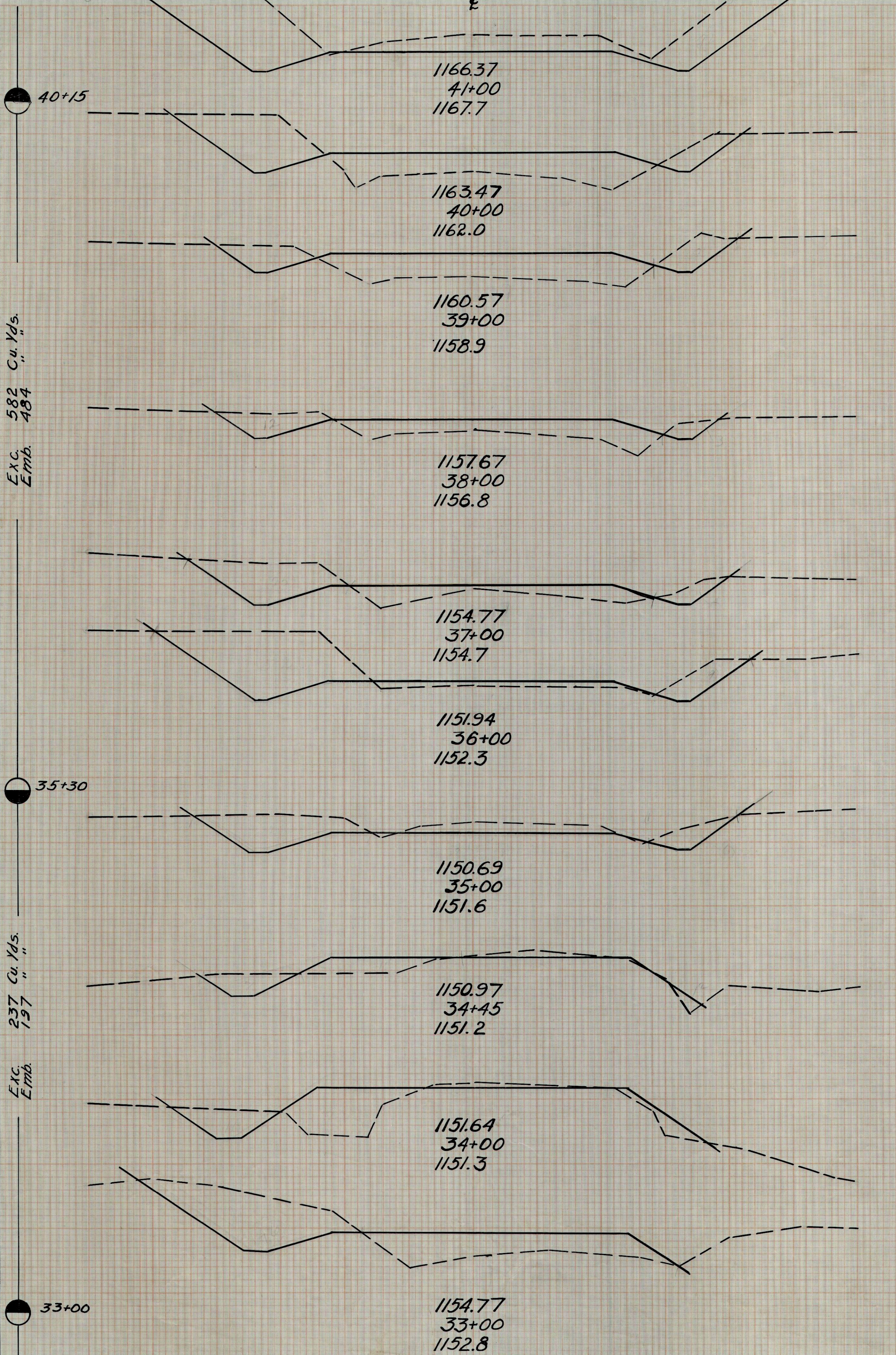
SEC. B
 NEWARK-WOOSTER RD
 RIPLEY TWP
 8
25

End Area	Cu. Yds.
Cut	Fill
60	28
	163
	87
28	19
	57
	87
3	28
	20
	52
8	0
	8
	13
10	28
	136
	118
88	55
	311
	191
80	48
	204
	180
30	49
	93
	161
20	38
	93
	113
30	23
	113
	50
31	4
	338
	282
	72
	28

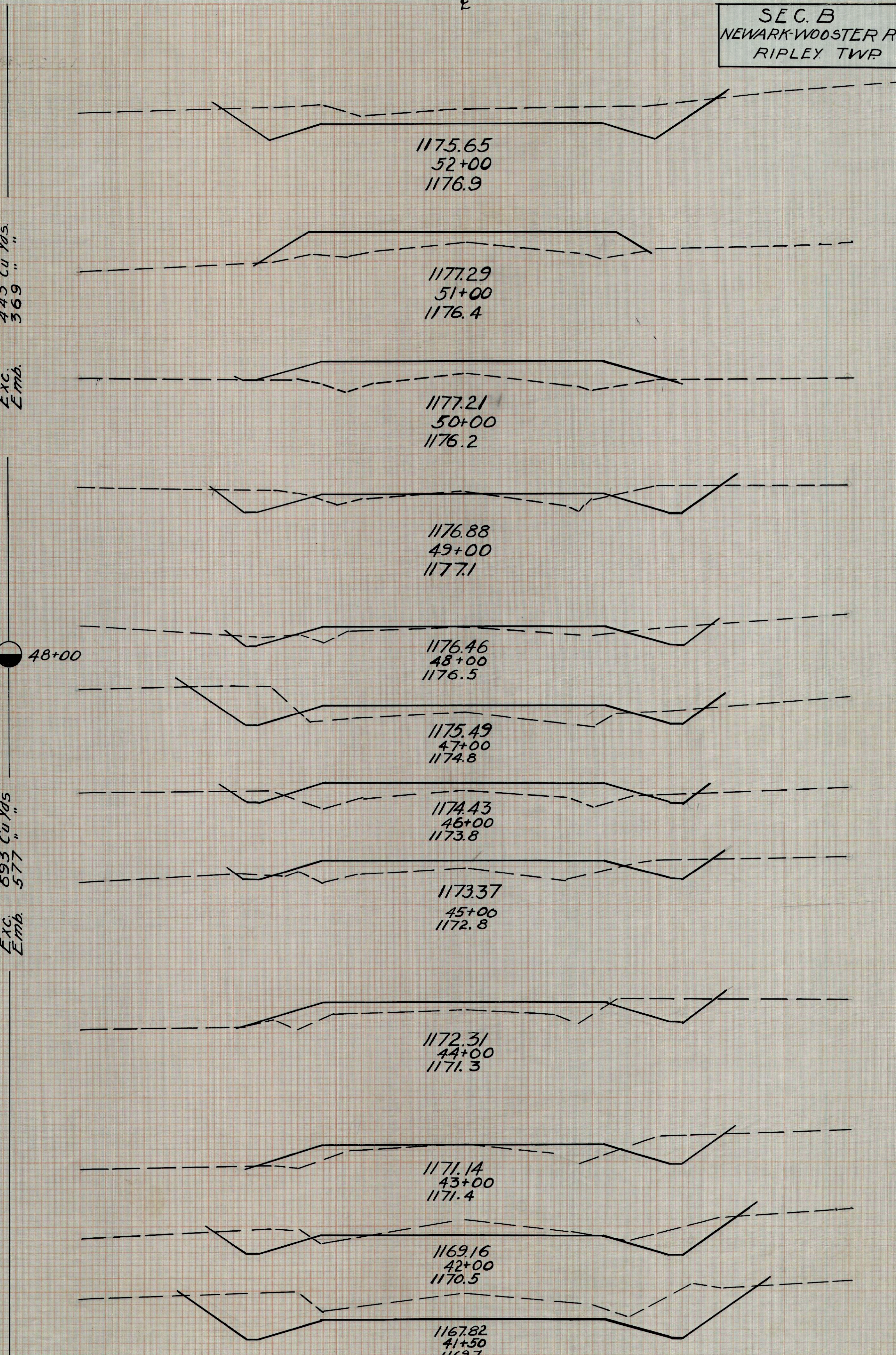
580 Cu. Yds.
487
 Exc. Emb.
 578 Cu. Yds.
484
 Exc. Emb.
 338 Cu. Yds.
282



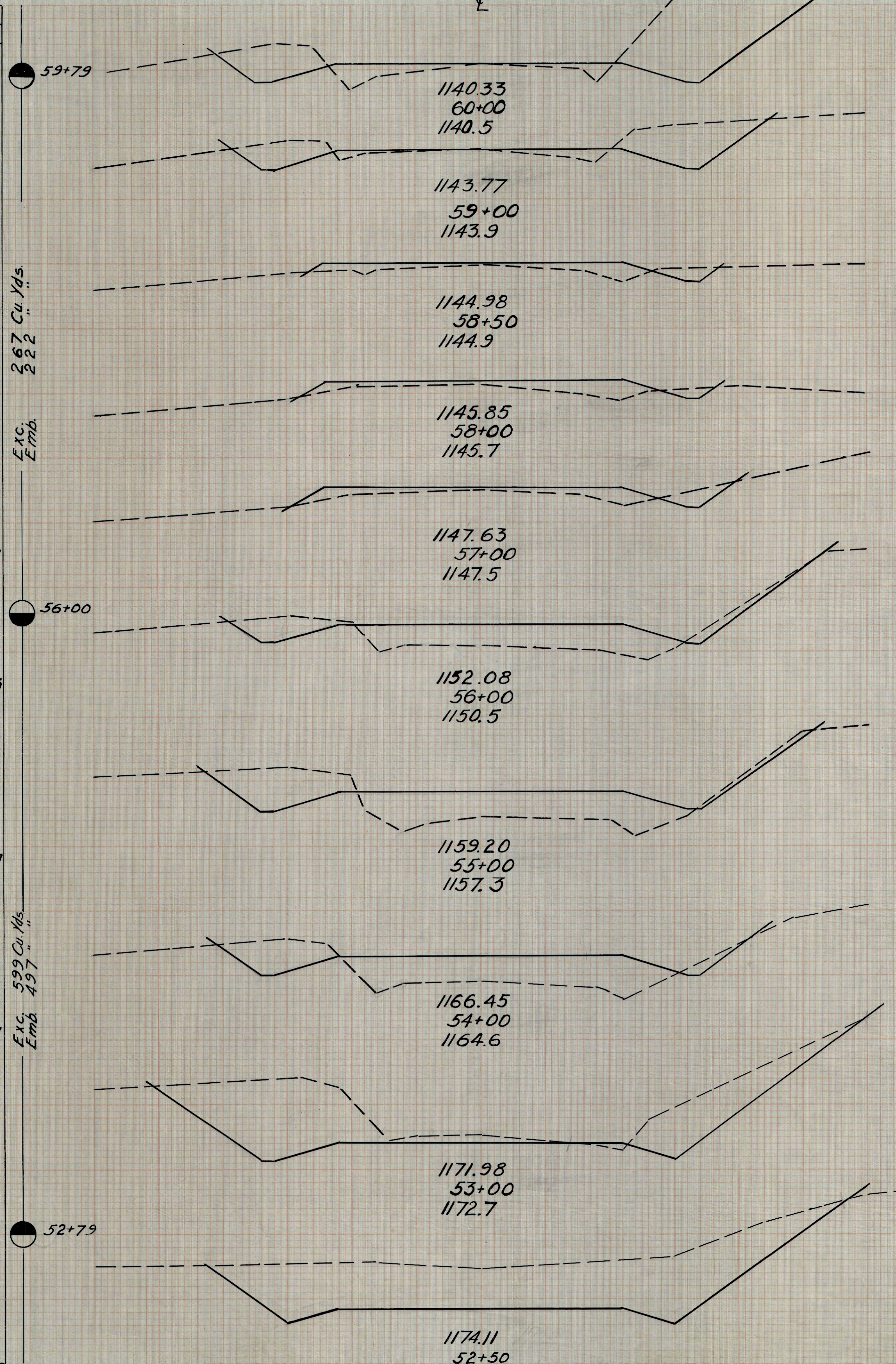
End Area	Cu. Yds.
Cut/Fill	Cut/Fill
92 0	
	243 89
39 48	
	106 180
18 49	
	61 144
15 29	
	82 85
29 17	
	167 48
61 9	
	185 19
39 1	
	51 13
11 12	
	20 38
13 34	
	109 141
46 42	
	196 130



End Area	Cu. Yds.
Cut/Fill	Cut/Fill
45 0	
	83 74
0 40	
	0 156
0 44	
	37 100
20 10	
	50 39
7 11	
	46 72
18 28	
	39 104
3 28	
	17 104
6 28	
	26 100
8 26	
	33 82
10 18	
	72 37
29 2	
	98 2
77 0	
	157 0



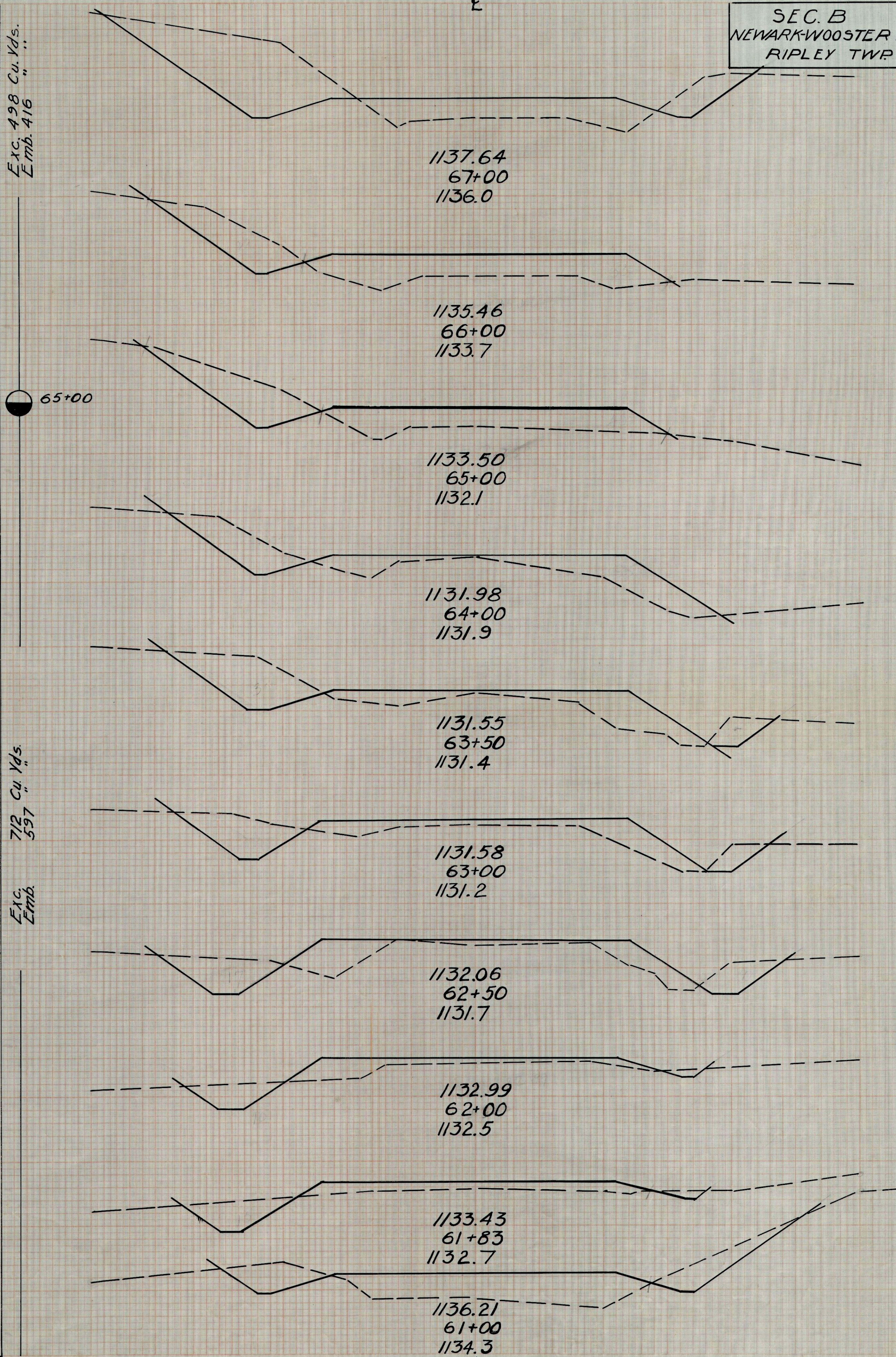
End Area	Cu. Yds.
Cut	Fill
113	12
274	35
35	7
35	18
3	12
5	25
2	15
11	52
4	13
41	107
18	45
85	183
28	54
93	207
22	58
254	107
115	0
257	0
162	0
192	0



Exc. Emb.
267 Cu. Yds.
222

Exc. Emb.
599 Cu. Yds.
497

End Area	Cu. Yds.
Cut	Fill
219	85
76	35
183	161
23	52
96	170
29	40
87	139
18	35
51	65
37	35
57	49
25	18
47	47
26	33
34	51
11	22
7	15
17	25
65	109
25	46
256	107



Exc. Emb.
712 Cu. Yds.
557

SEC. B
NEWARK-WOOSTER RD.
RIPLEY TWP

10
25

FINAL SURVEY
 SURVEY
 NO. 1000
 DATE 1/15/25
 BY [Signature]
 CHECKED [Signature]

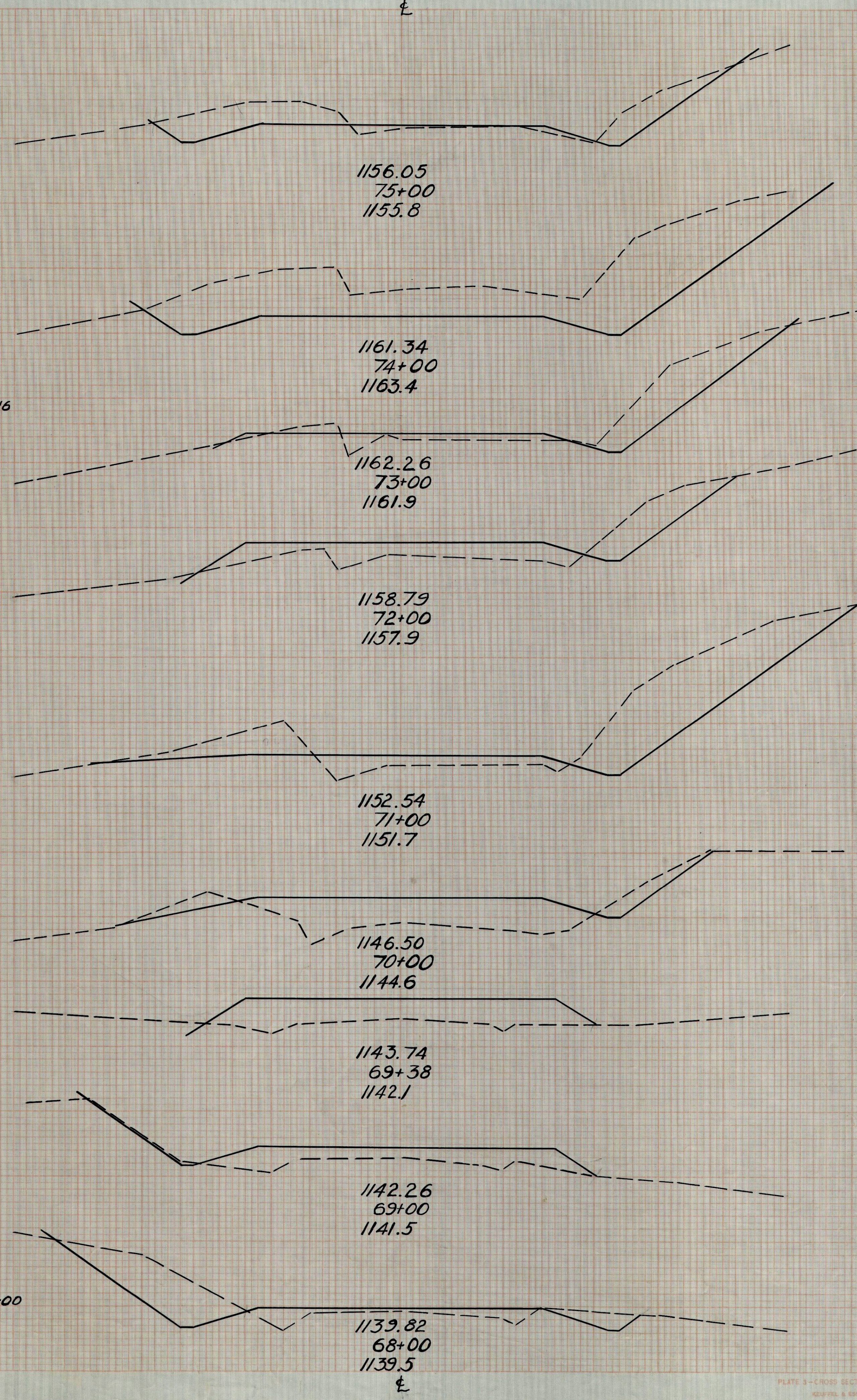
ORIGINAL SURVEY
 SURVEY
 NO. 1000
 DATE 1/15/25
 BY [Signature]
 CHECKED [Signature]

End Area	Cu Yds
Cut	Fill
42.3	
380.6	
163.0	
372.22	
38.12	
113.83	
23.33	
228.91	
100.16	
213.37	
15.58	
17.128	
0.53	
0.62	
0.35	
78.85	
42.11	

709 Cu. Yds
 590
 Exc. Emb.

73+16

68+00

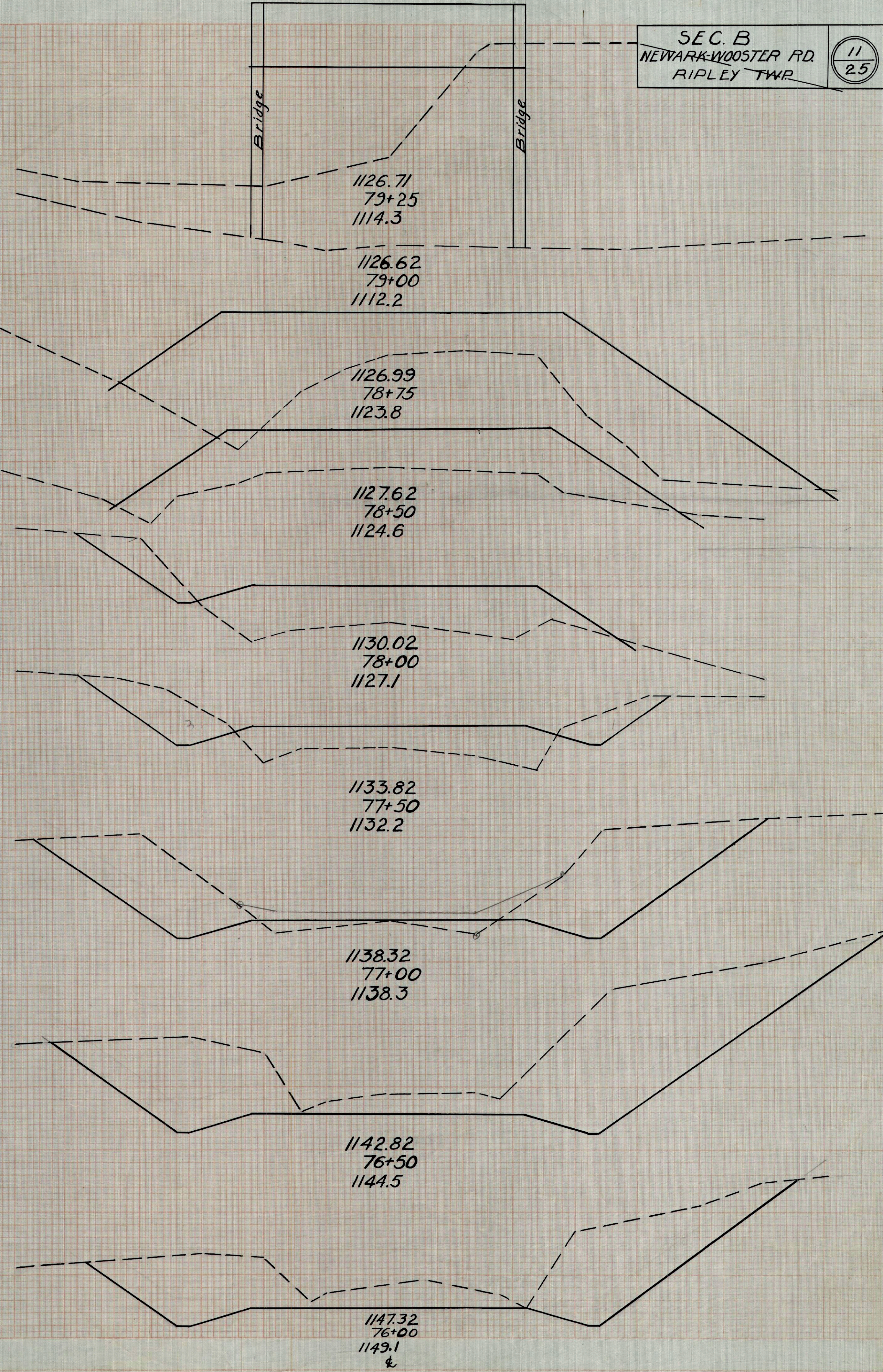


End Area	Cu Yds
Cut	Fill
0.208	
0.285	
0.266	
0.290	
0.198	
0.138	
15.220	
16.100	
55.144	
43.55	
183.62	
155.12	
407.11	
285.0	
435.0	
185.0	
420.6	

2237 Cu. Yds
 1779
 Exc. Emb.

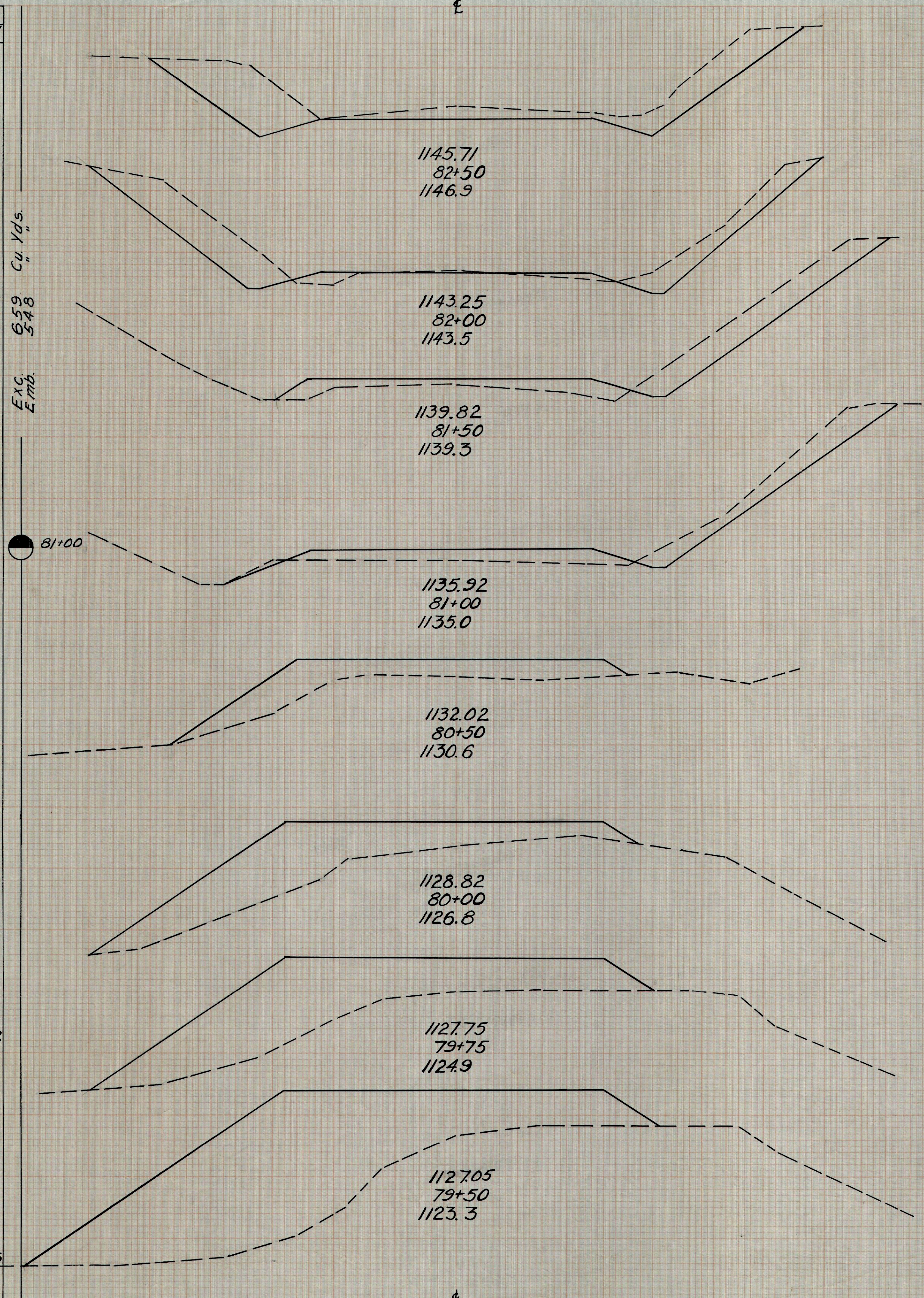
Bridge

Exc. Emb.



SEC. B
 NEWARK-WOOSTER RD.
 RIPLEY TWP. 11/25

End Area	Cu. Yds.
Cut	Fill
85 0	
144 5	
70 5	
105 28	
43 25	
69 51	
32 30	
30 91	
0 68	
0 179	
0 125	
0 131	
0 158	
0 212	
0 300	
0 235	



1145.71
82+50
1146.9

1143.25
82+00
1143.5

1139.82
81+50
1139.3

1135.92
81+00
1135.0

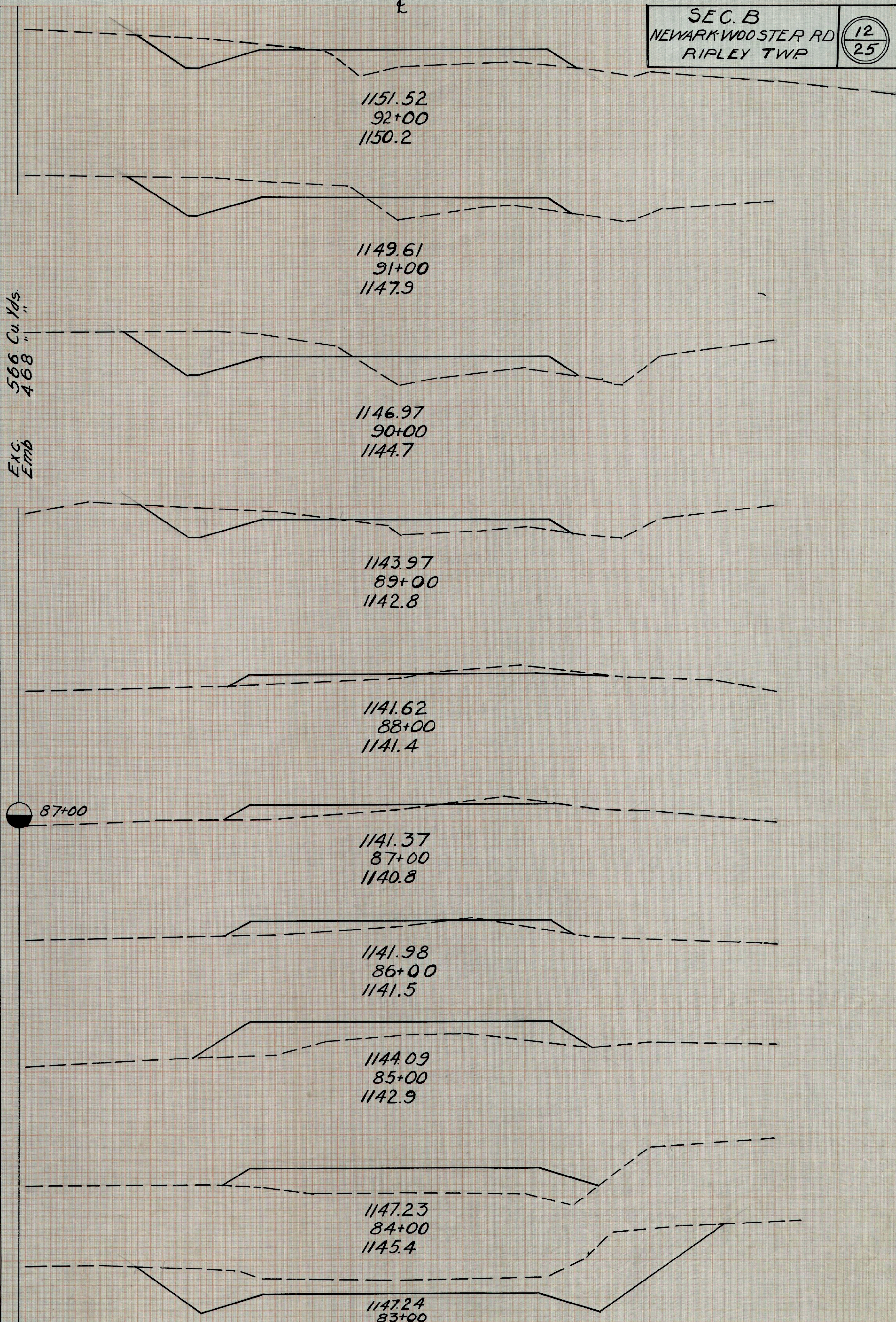
1132.02
80+50
1130.6

1128.82
80+00
1126.8

1127.75
79+75
1124.9

1127.05
79+50
1123.3

End Area	Cu. Yds.
Cut	Fill
16 23	
85 70	
30 15	
120 74	
35 25	
98 74	
18 15	
44 46	
6 10	
19 46	
4 15	
7 61	
0 18	
0 122	
0 48	
0 185	
0 52	
170 96	
92 0	
164 0	



1151.52
92+00
1150.2

1149.61
91+00
1147.9

1146.97
90+00
1144.7

1143.97
89+00
1142.8

1141.62
88+00
1141.4

1141.37
87+00
1140.8

1141.98
86+00
1141.5

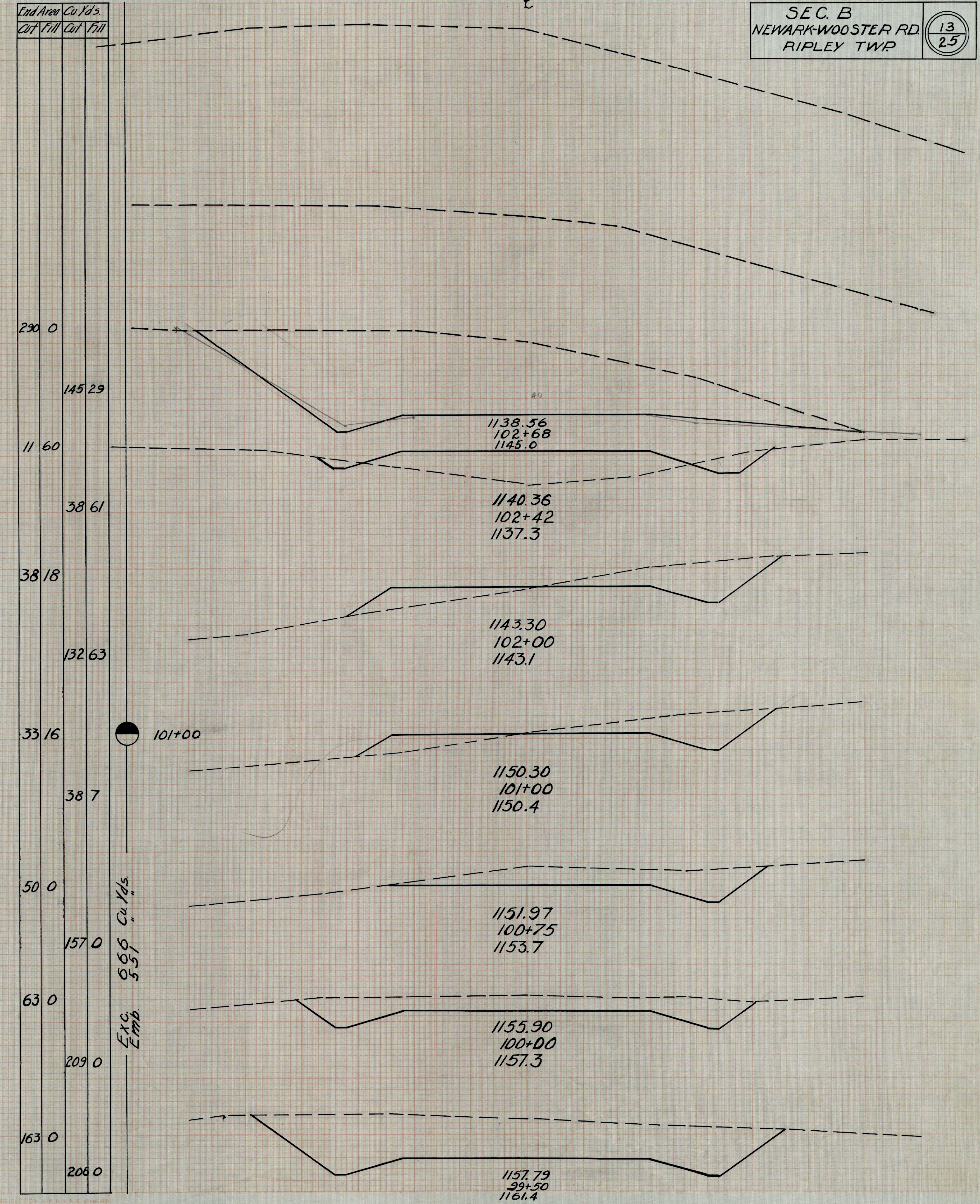
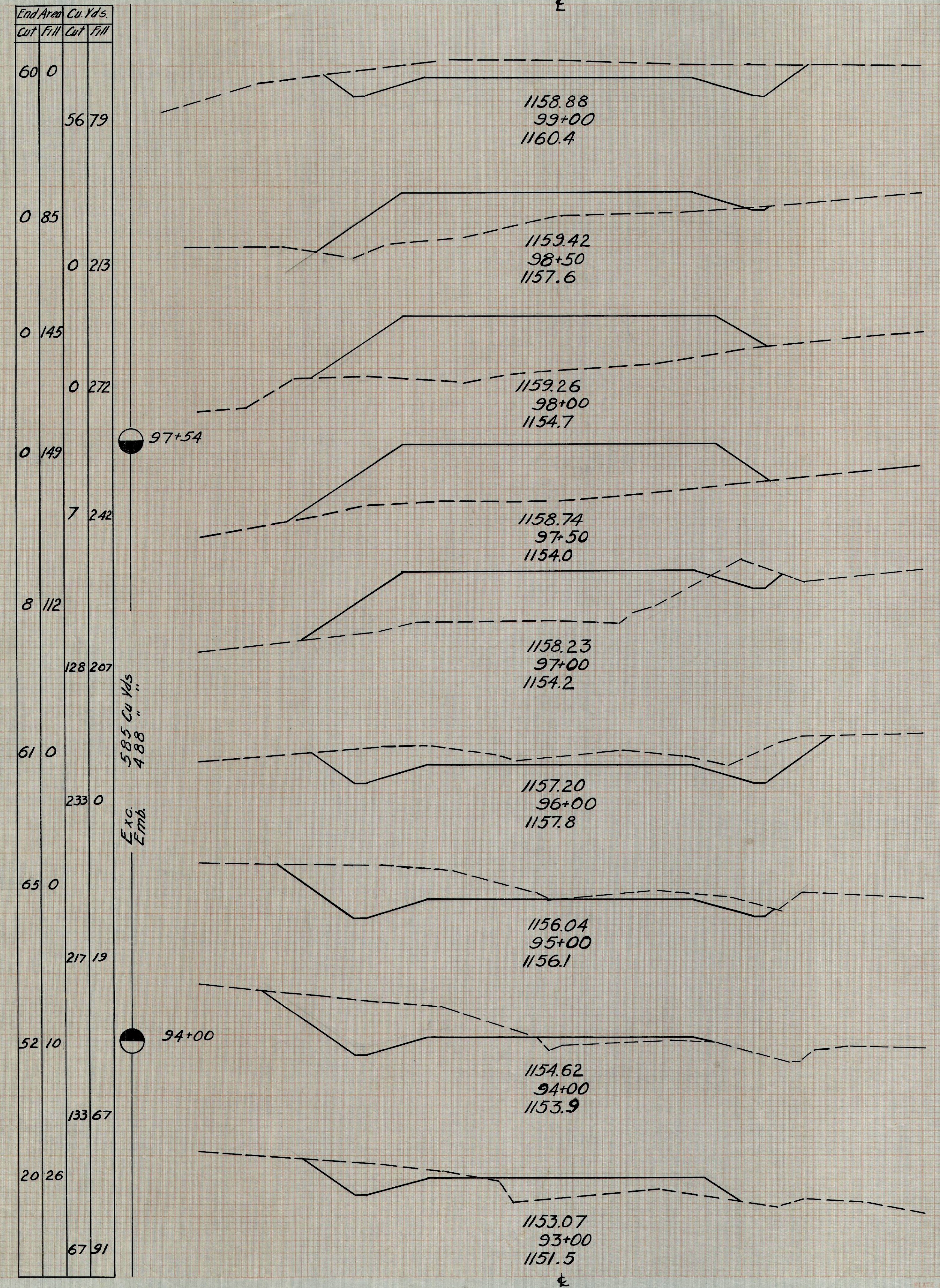
1144.09
85+00
1142.9

1147.23
84+00
1145.4

1147.24
83+00
1148.4

SEC. B
NEWARK-WOOSTER RD
RIPLEY TWP

12
25

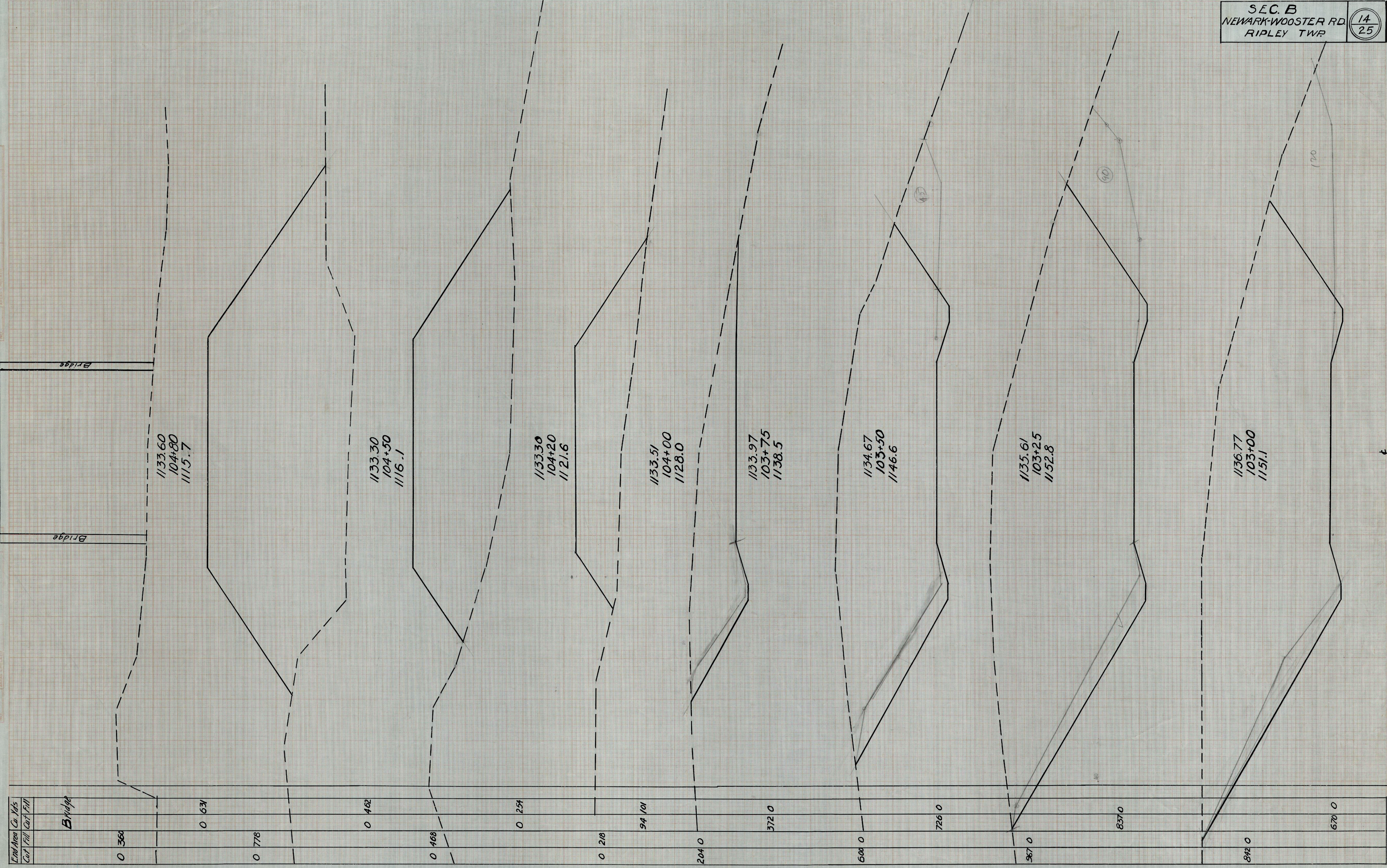


FINAL SURVEYED SURVEY PLAN NOTE BOOK

ORIGINAL SURVEYED SURVEY PLAN NOTE BOOK

FINAL SURVEY PLOTTED
 NOTE BOOK NO. _____
 DATE _____

ORIGINAL SURVEY PLOTTED
 NOTE BOOK NO. _____
 DATE _____



End Area Cu Yds	Cut/Fill	Cut/Fill
0 360		
0 778		
0 468		
0 218		
94 101		
204 0		
372 0		
600 0		
726 0		
967 0		
837 0		
842 0		
670 0		

Bridge

Bridge

1133.60
104+80
1115.7

1133.30
104+50
1116.1

1133.30
104+20
1121.6

1133.51
104+00
1128.0

1133.97
103+75
1138.5

1134.67
103+50
1146.6

1135.61
103+25
1152.8

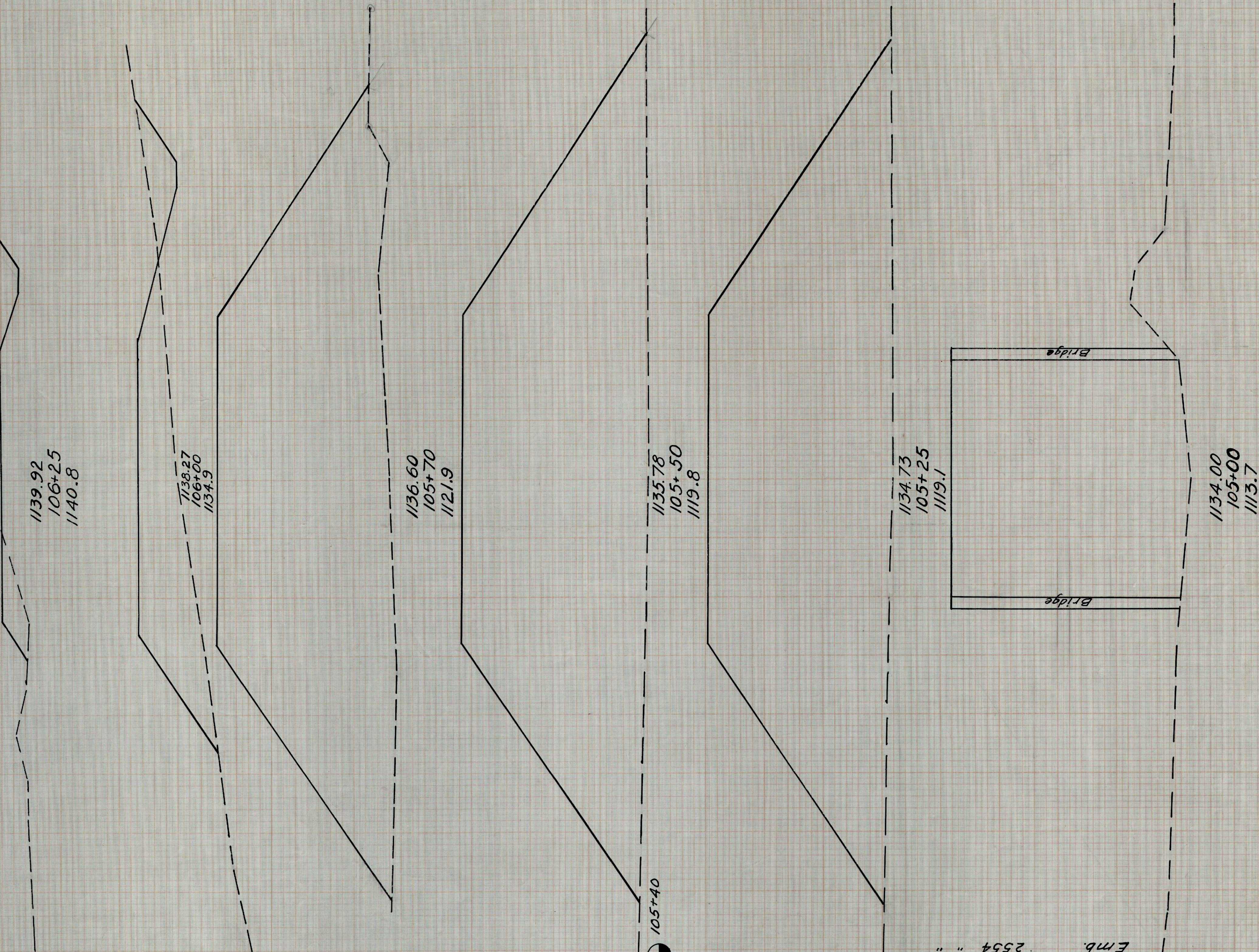
1136.77
103+00
1151.1

Bridge

Emb./New	Co. Yds	Cut	Fill	Cut	Fill
0	125	15	67	65	
0	20	125	11	470	
0	720		0	562	
0	735				105+40
0	780				0 730
0					Exc. Emb. 3014 Cu Yds. 2554
0					0 548
0					
0					Bridge

ORIGINAL SURVEY
 DATE
 BY
 NO.
 CHECKED

FINAL SURVEY
 DATE
 BY
 NO.
 CHECKED



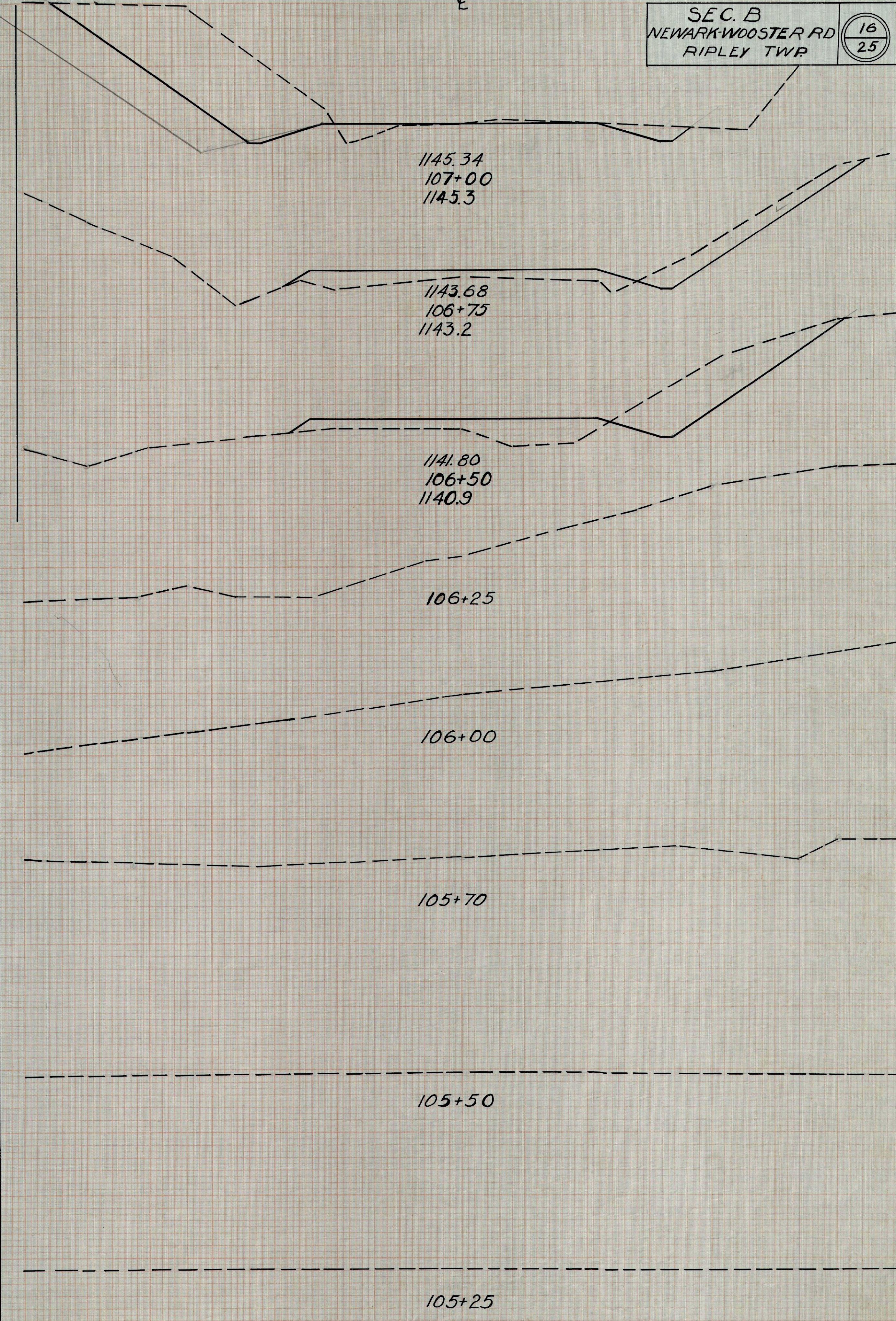
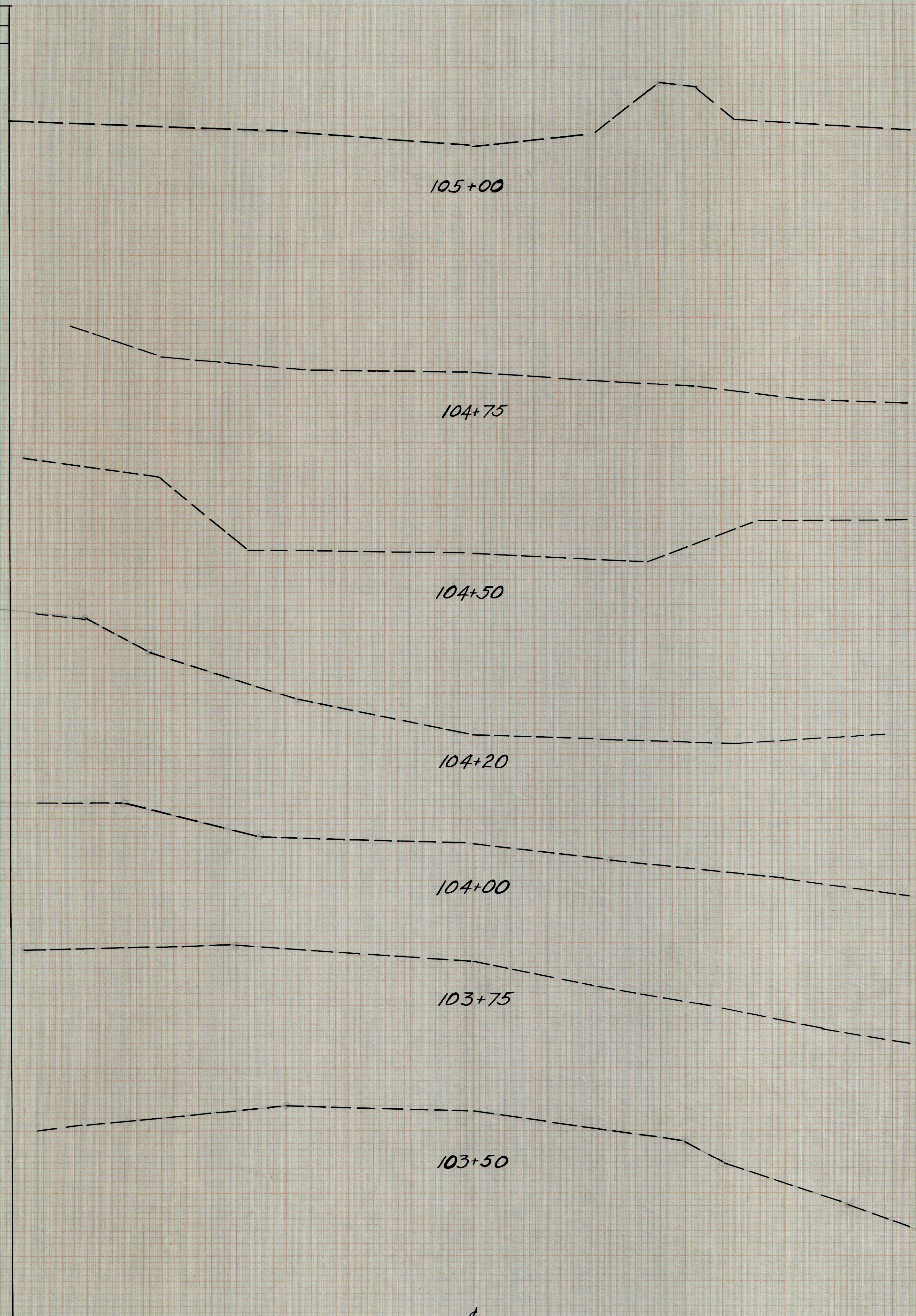
FINISHED SURVEY PLOTTED
 NOTE BOOK NO. _____
 DATE _____
 CHECKED BY _____

ORIGINAL SURVEY PLOTTED
 NOTE BOOK NO. _____
 DATE _____
 CHECKED BY _____

SEC. B
 NEWARK-WOOSTER RD
 RIPLEY TWP

16
 25

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
112.5			
	63.15		
24.27			
	33.27		
48.32			
	80.22		



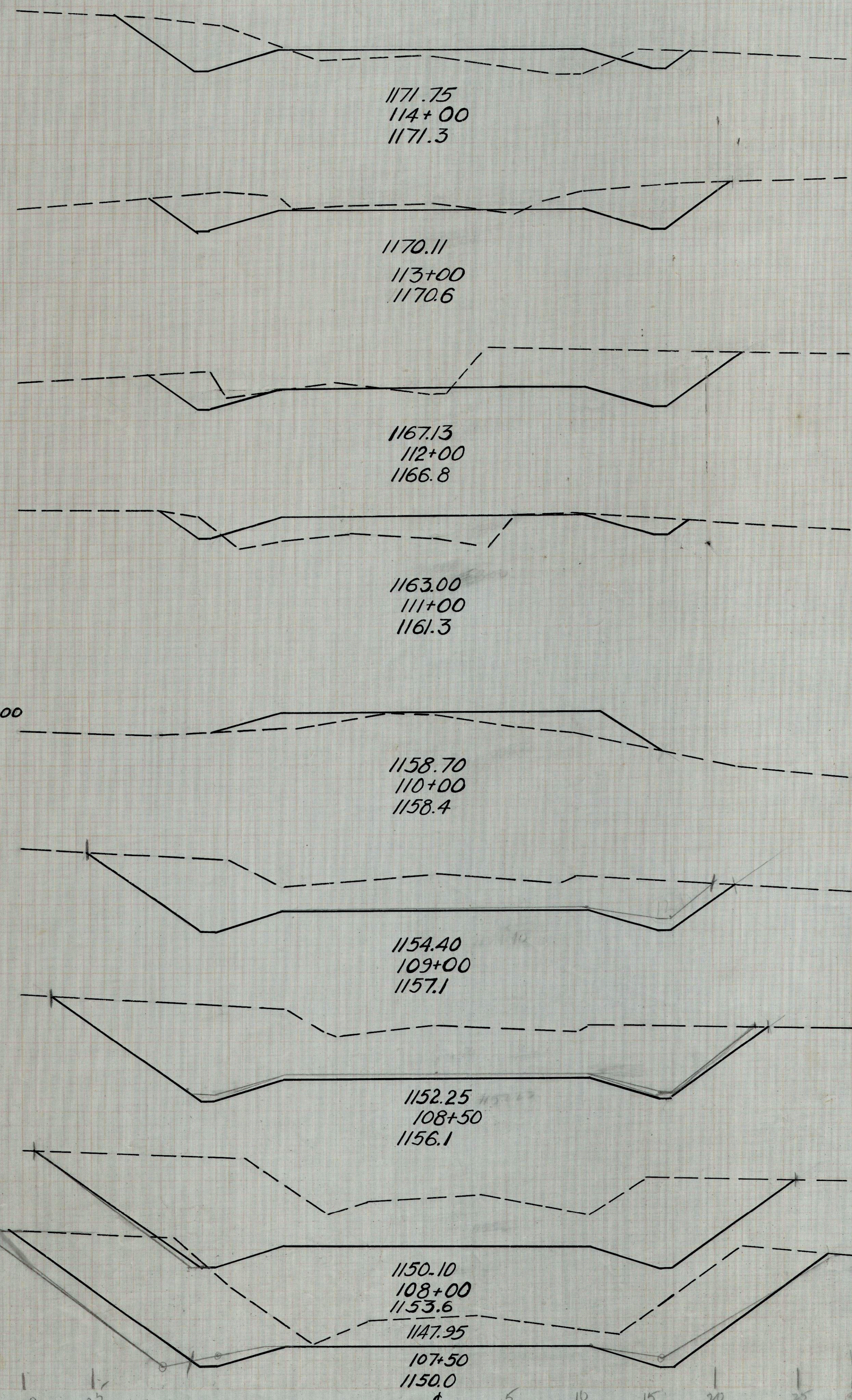
1145.34
 107+00
 1145.3

1143.68
 106+75
 1143.2

1141.80
 106+50
 1140.9

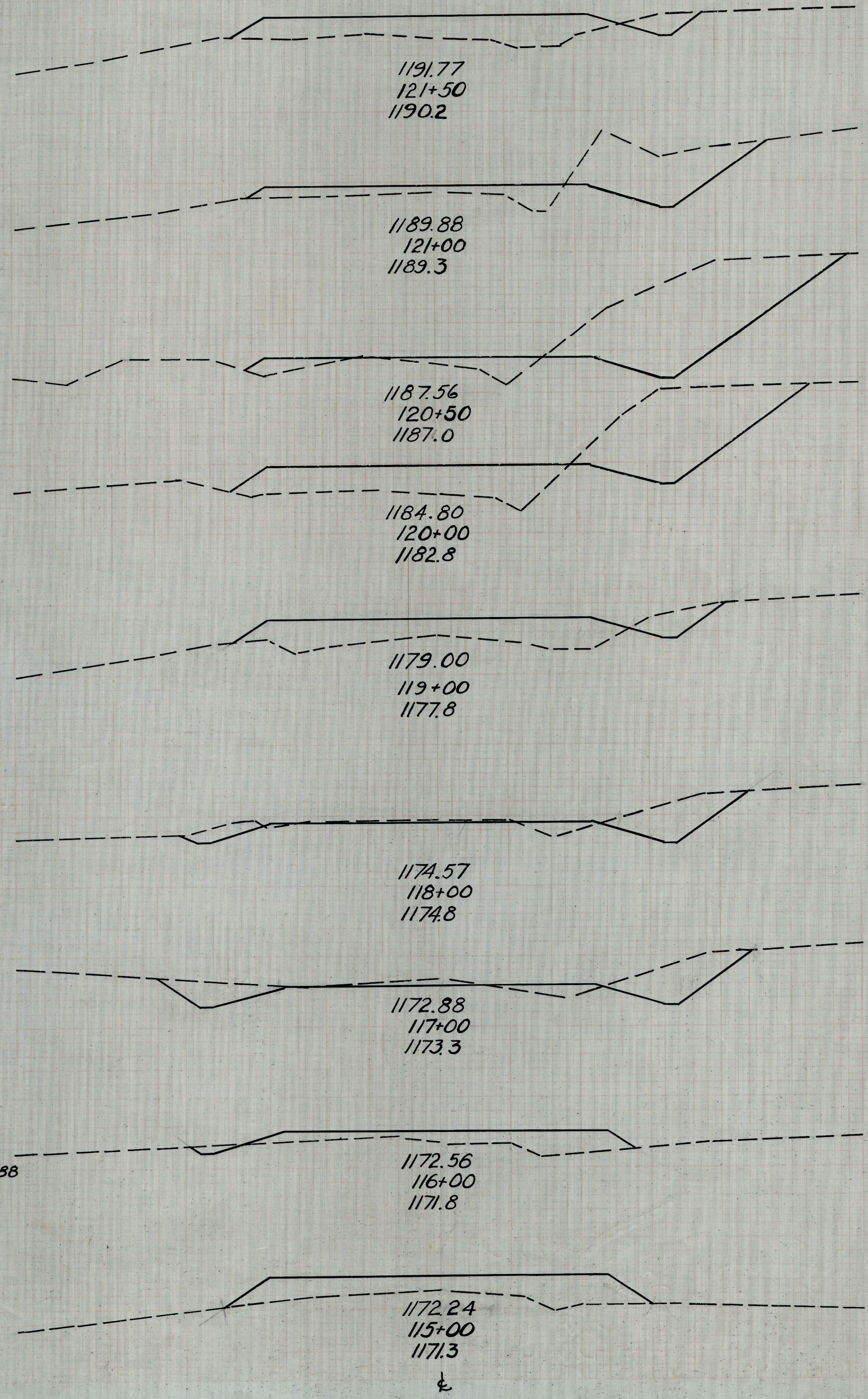
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
29	25		
		146	46
50	0		
		215	4
66	2		
		139	63
9	32		
		17	111
0	28		
		228	52
123	0		
		299	0
200	0		
		391	0
222	0		
		375	0
183	0		
		273	5

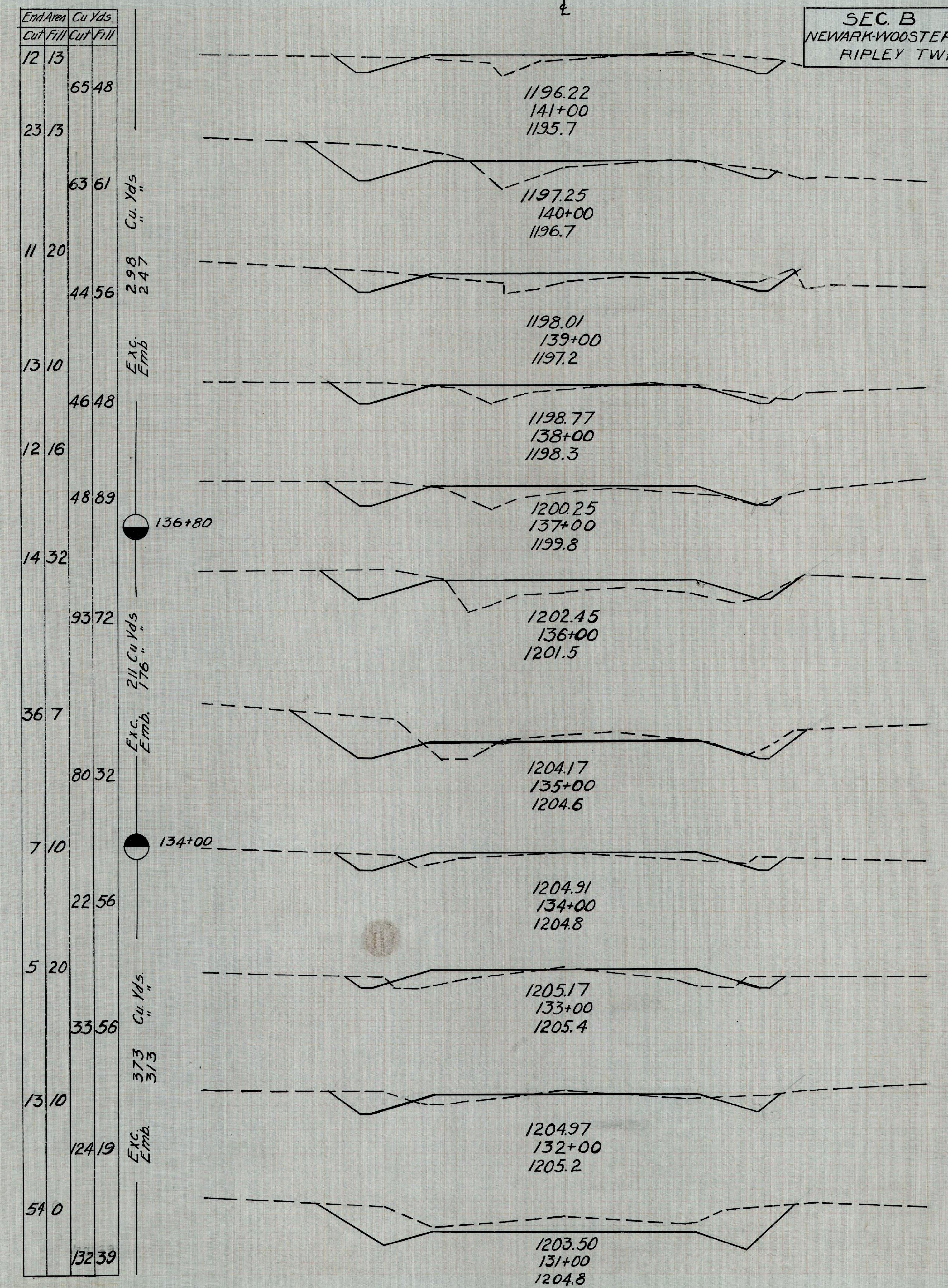
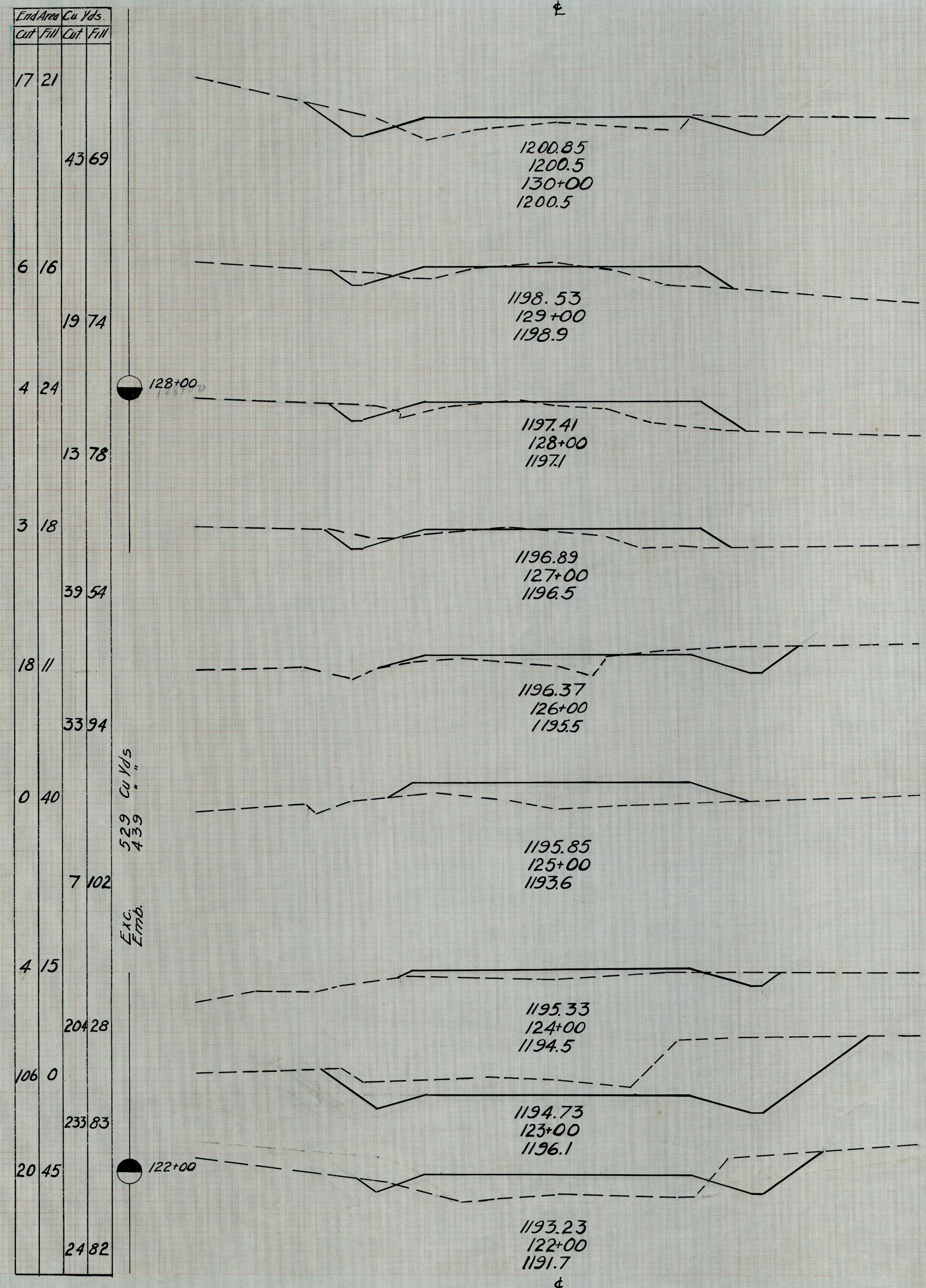
573 Cu Yds
477 " "
Exc. Emb
1820 Cu Yds.
1543 " "
Exc. Emb



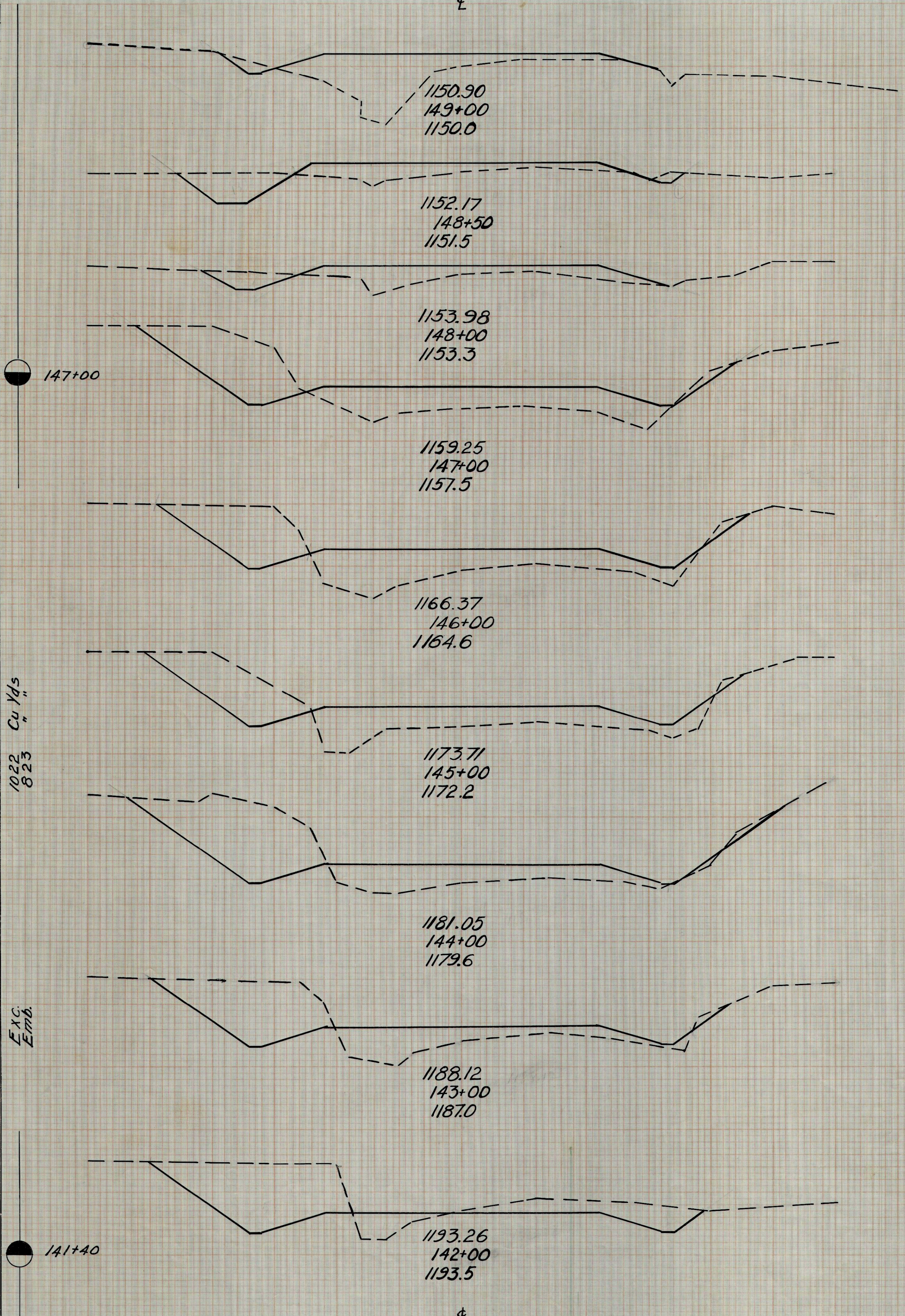
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
6	44		
		41	57
38	18		
		114	30
85	14		
		137	54
63	44		
		130	65
7	45		
		62	89
26	3		
		106	13
31	4		
		59	63
1	30		
		2	139
0	45		
		54	30

573 Cu Yds
569 " "
Exc. Emb

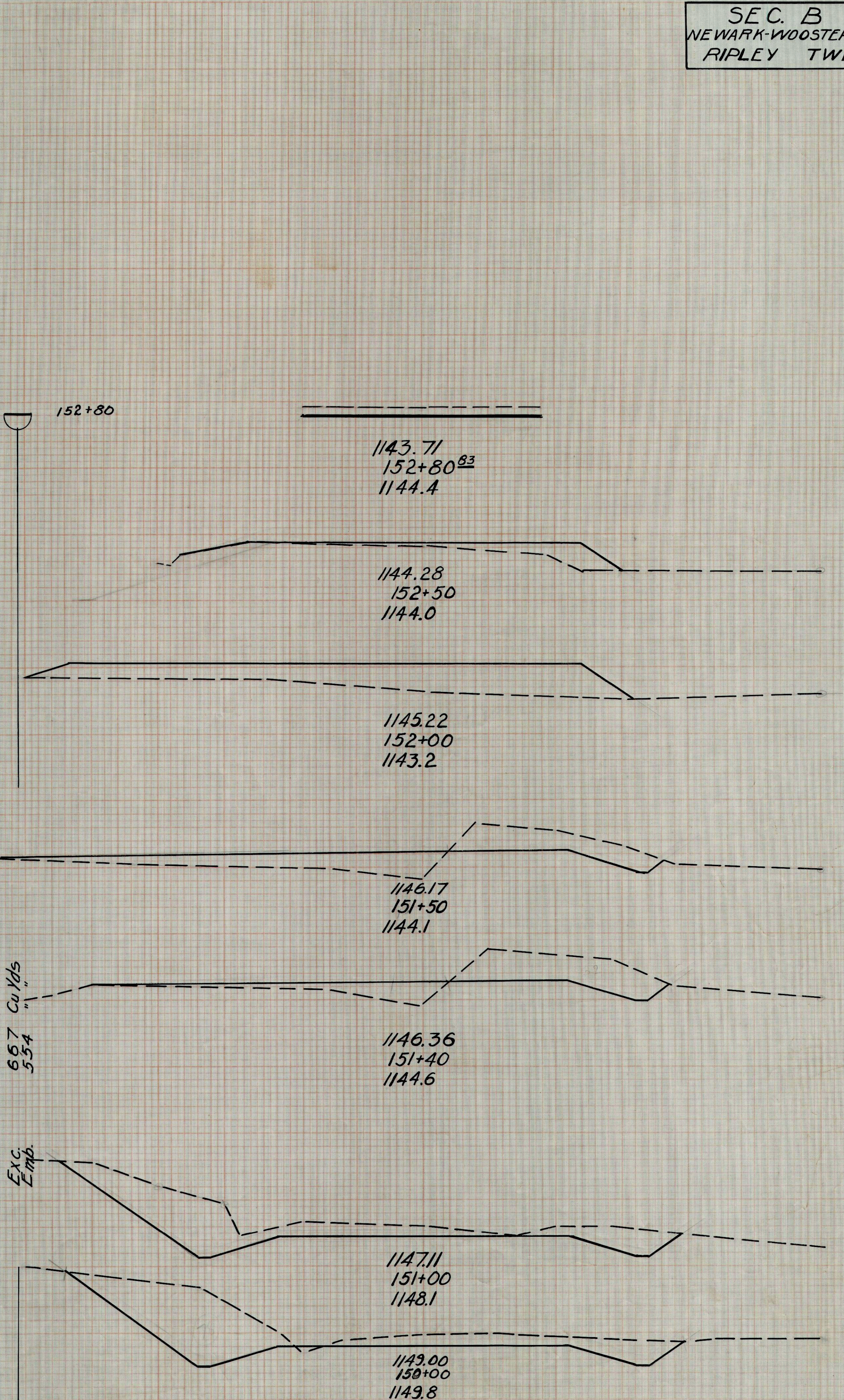




End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
3	48		
		16	66
14	23		
		19	47
7	28		
		93	144
43	50		
		156	200
41	58		
		143	206
36	53		
		182	167
62	37		
		200	137
46	37		
		237	87
82	10		
		174	43



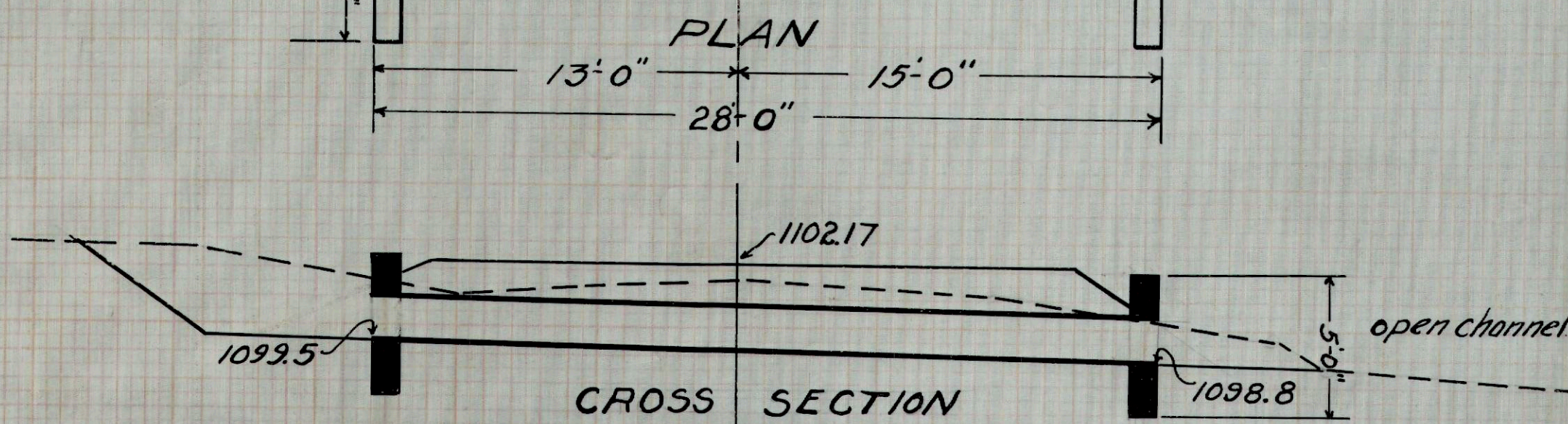
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		15	0
		8	9
		0	17
		0	81
		0	70
		22	98
		24	36
		10	9
		32	15
		66	7
		76	11
		70	0
		27	0
		78	0
		150	89



Original Survey Book No. 1022
Final Survey Book No. 1022

Original Survey Book No. 1022
Final Survey Book No. 1022

Steel
 8'A bars 1/2" φ 4'-6"
 8'B " 1/2" φ 5'-0"

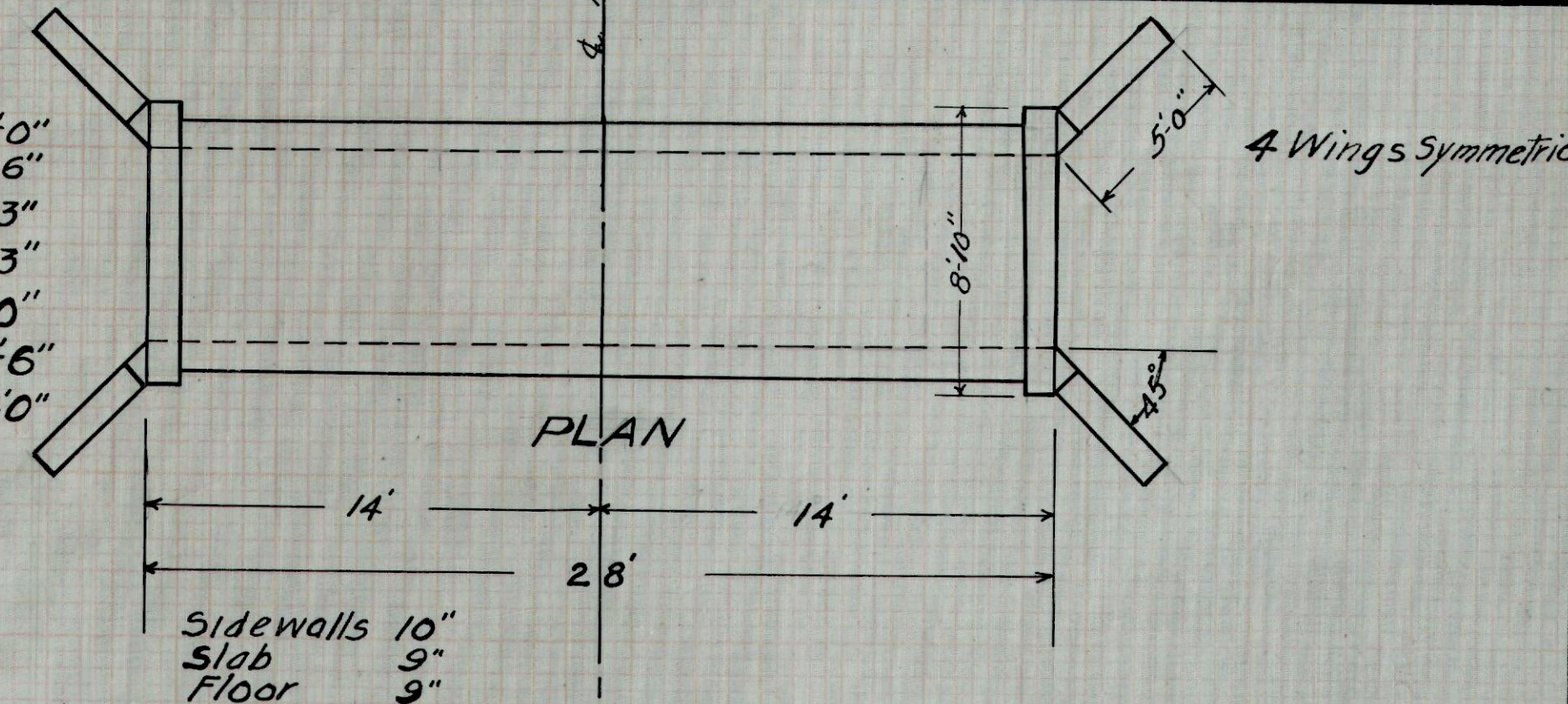


BRIDGE DATA
 Type - Std. C.I.P. Culvert
 Size - 18" x 28"
 Work Req'd - New Culvert

EST. QUANTITIES
 Exc. and refill 7 Cu Yds.
 Concrete 1:2:3 1.9 Cu Yds.
 Reinf. Steel 51 lbs.
 18" Cast Iron Pipe 28 Lin. feet.

Sta. 9+95

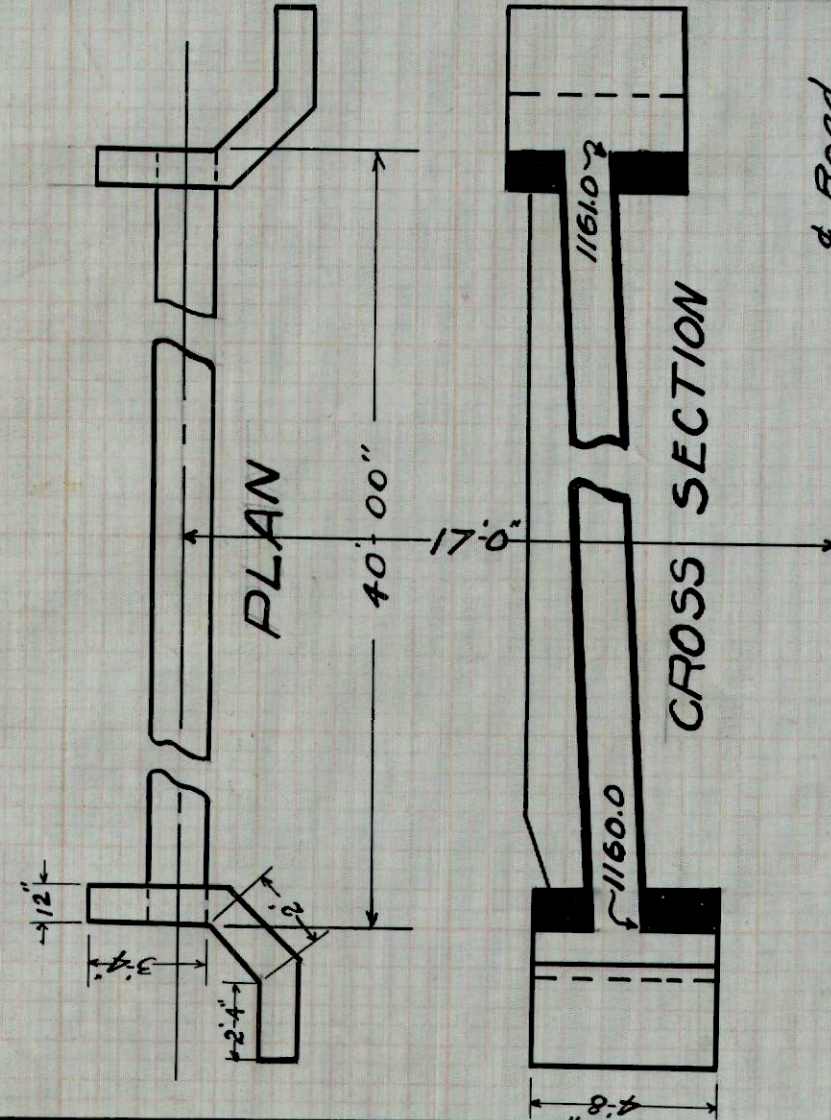
STEEL
 4'A bars 1/2" φ 6'-0"
 4'B " 1/2" φ 8'-6"
 46C_T " 5/8" φ 7'-3"
 38C_B " 1/2" φ 7'-3"
 56D " 1/2" φ 5'-0"
 12E " 1/2" φ 27'-6"
 8E " 1/2" φ 37'-0"



BRIDGE DATA
 Type - Std box Culvert (except as shown)
 Size - 6' x 4' x 28'
 Work Req'd - Build box Culvert
 Remove old stone box.

EST. QUANTITIES
 Exc. and refill 14 Cu Yds.
 Concrete 1:2:3 26.6 Cu Yds.
 Reinf. Steel 1453 lbs.

Sta. 19+65



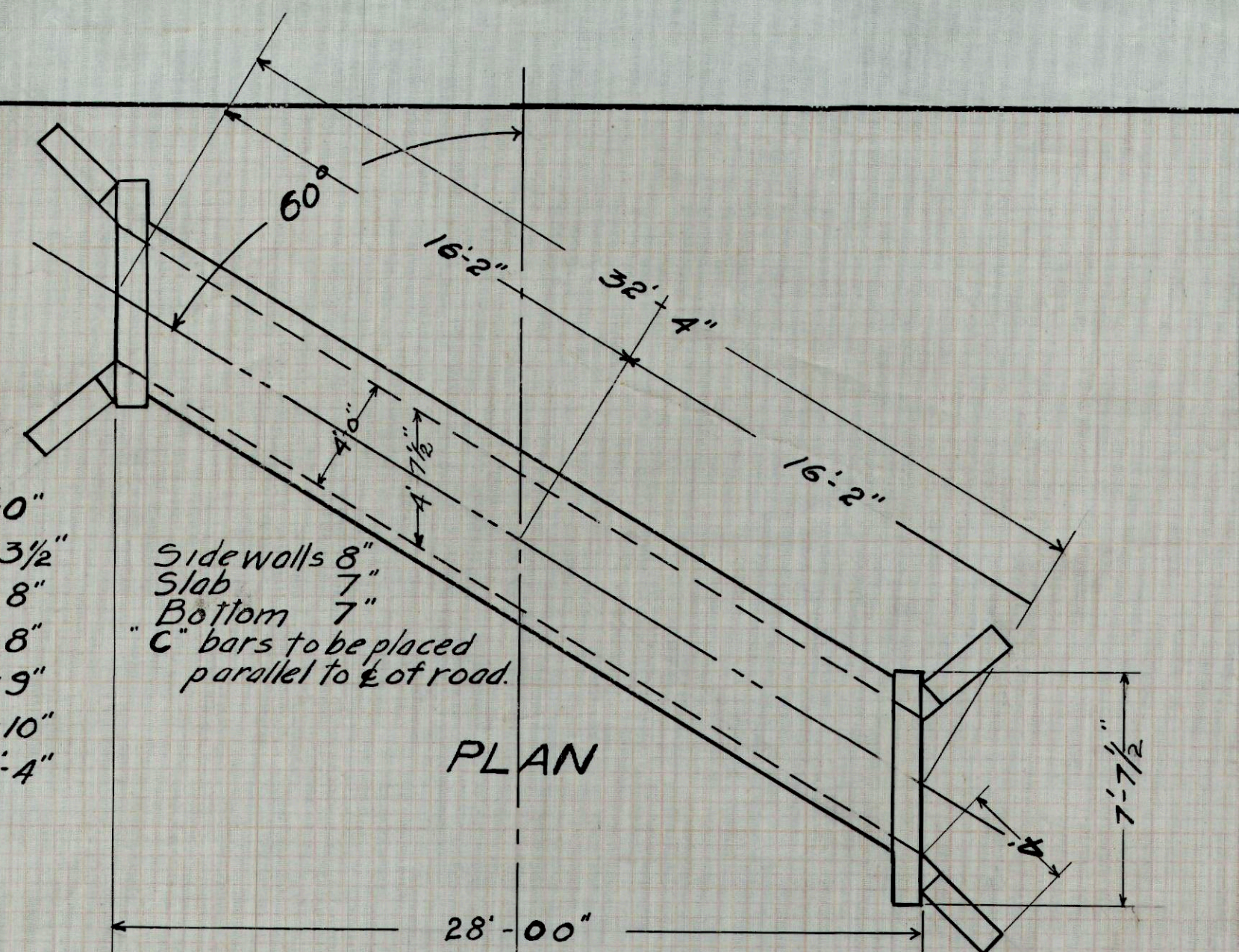
BRIDGE DATA
 Type - Std. Side Road
 Cast Iron Pipe Culvert.
 Size - 14" x 40"
 Work Req'd - New Culvert

EST. QUANTITIES
 Exc. and refill 8 Cu Yds.
 Concrete 1:2:3 2.9 Cu Yds.
 Reinf. Steel 66 lbs.
 14" C.I.P. 40 Lin. Ft.

STEEL
 2-A bars 1/2" φ 7'-6"
 2-B " 1/2" φ 8'-6"
 16-C " 1/2" φ 4'-2"

Sta. 29+00

STEEL
 4'A bars 1/2" φ 5'-0"
 4'B bars 1/2" φ 7'-3 1/2"
 64C_T " 1/2" φ 5'-8"
 48C_B " 1/2" φ 5'-8"
 64'D " 1/2" φ 3'-9"
 8'E " 1/2" φ 31'-10"
 6'E " 1/2" φ 39'-4"

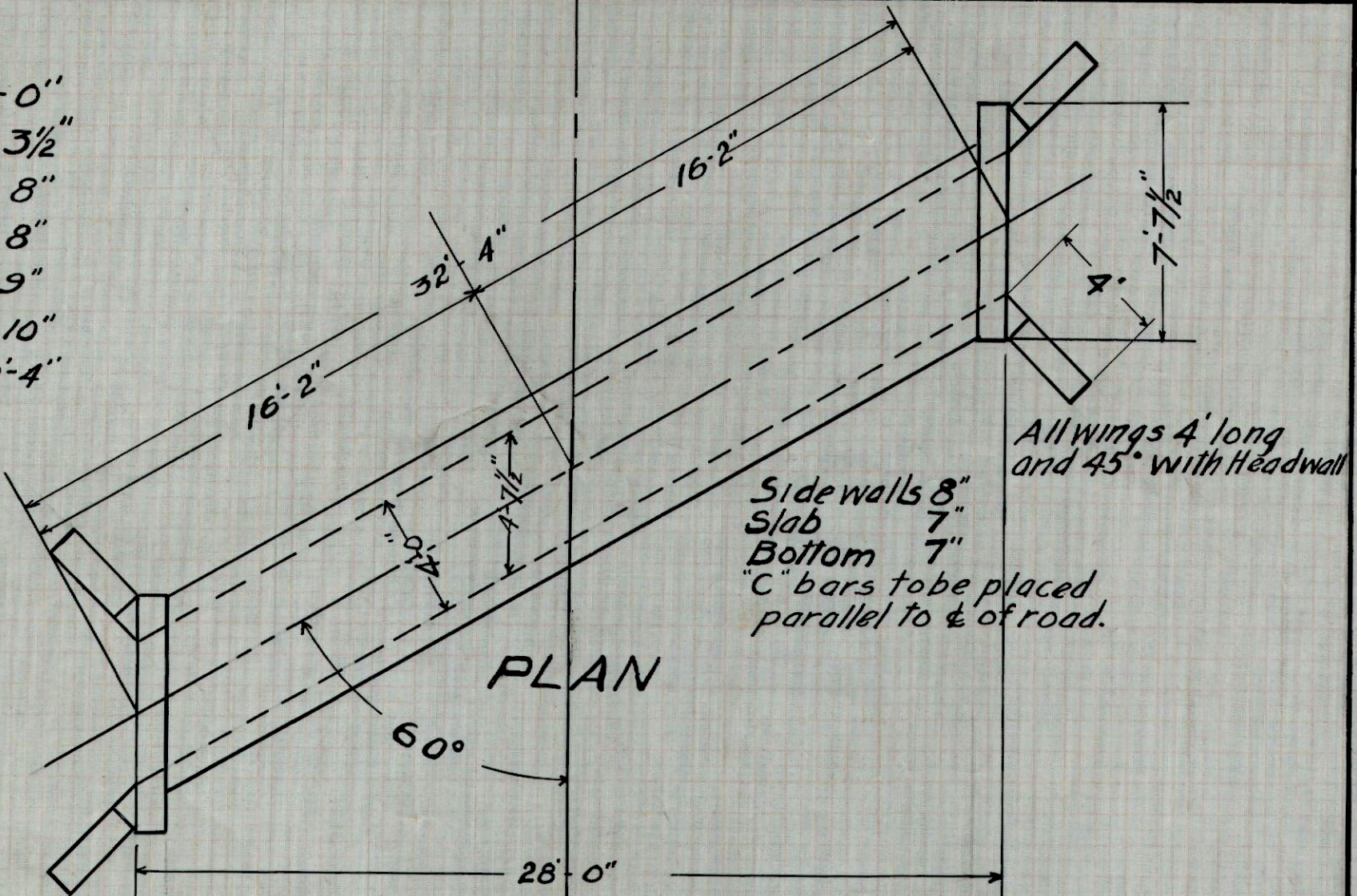


BRIDGE DATA
 Type - Std box Culvert (except as shown)
 Size 4' x 3' x 32'-4"
 Work Req'd - Build box culvert.
 Remove old Culvert.

EST. QUANTITIES
 Excavation + refill 50 Cu Yds.
 Concrete 1:2:3 18.4 Cu Yds.
 Reinf. Steel 1193 lbs.

Sta. 34+15

STEEL
 4'A bars 1/2" φ 5'-0"
 4'B " 1/2" φ 7'-3 1/2"
 64C_T " 1/2" φ 5'-8"
 48C_B " 1/2" φ 5'-8"
 64'D " 1/2" φ 3'-9"
 8'E " 1/2" φ 31'-10"
 6'E " 1/2" φ 39'-4"

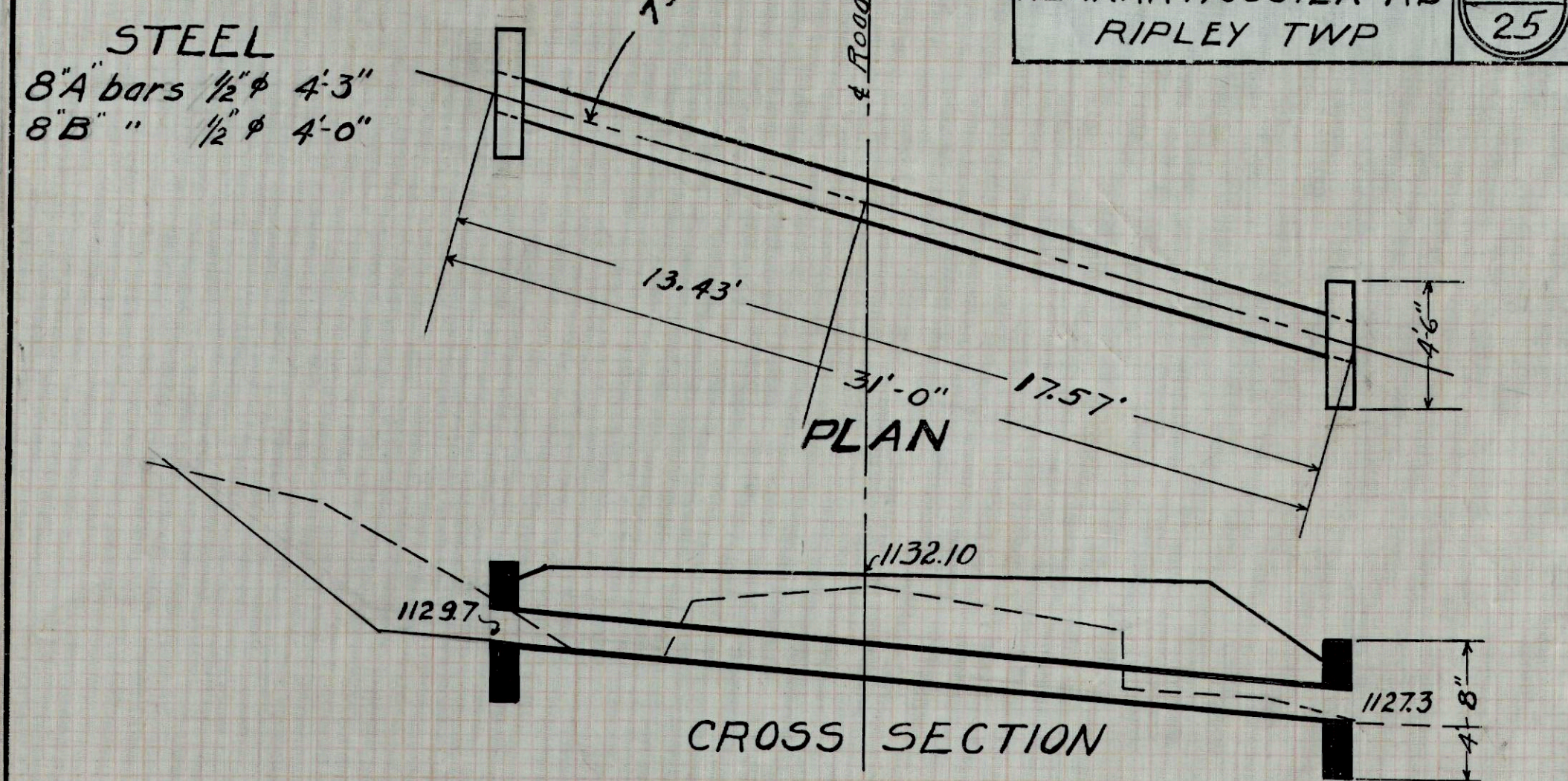


BRIDGE DATA
 Type - Std box Culvert (except as shown).
 Size 4' x 3' x 32'-4"
 Work Req'd - Build new Culvert.

EST. QUANTITIES
 Exc. and refill 26 Cu Yds.
 Concrete 1:2:3 18.4 Cu Yds.
 Reinf. Steel 1193 lbs.

Sta. 62+38

SEC. B
 NEWARK-WOOSTER RD
 RIPLEY TWP



BRIDGE DATA
 Type - Std. C.I.P. Culvert
 Size - 14" x 31'-0"
 Work Req'd - Build new Culvert
 Remove old box.

EST. QUANTITIES
 Exc. and refill 5 Cu Yds.
 Reinf. Steel 43 lbs.
 14" Cast Iron Pipe 31 Lin. Ft.
 Concrete 1:2:3 1.5 Cu Yds.

Sta. 64+09

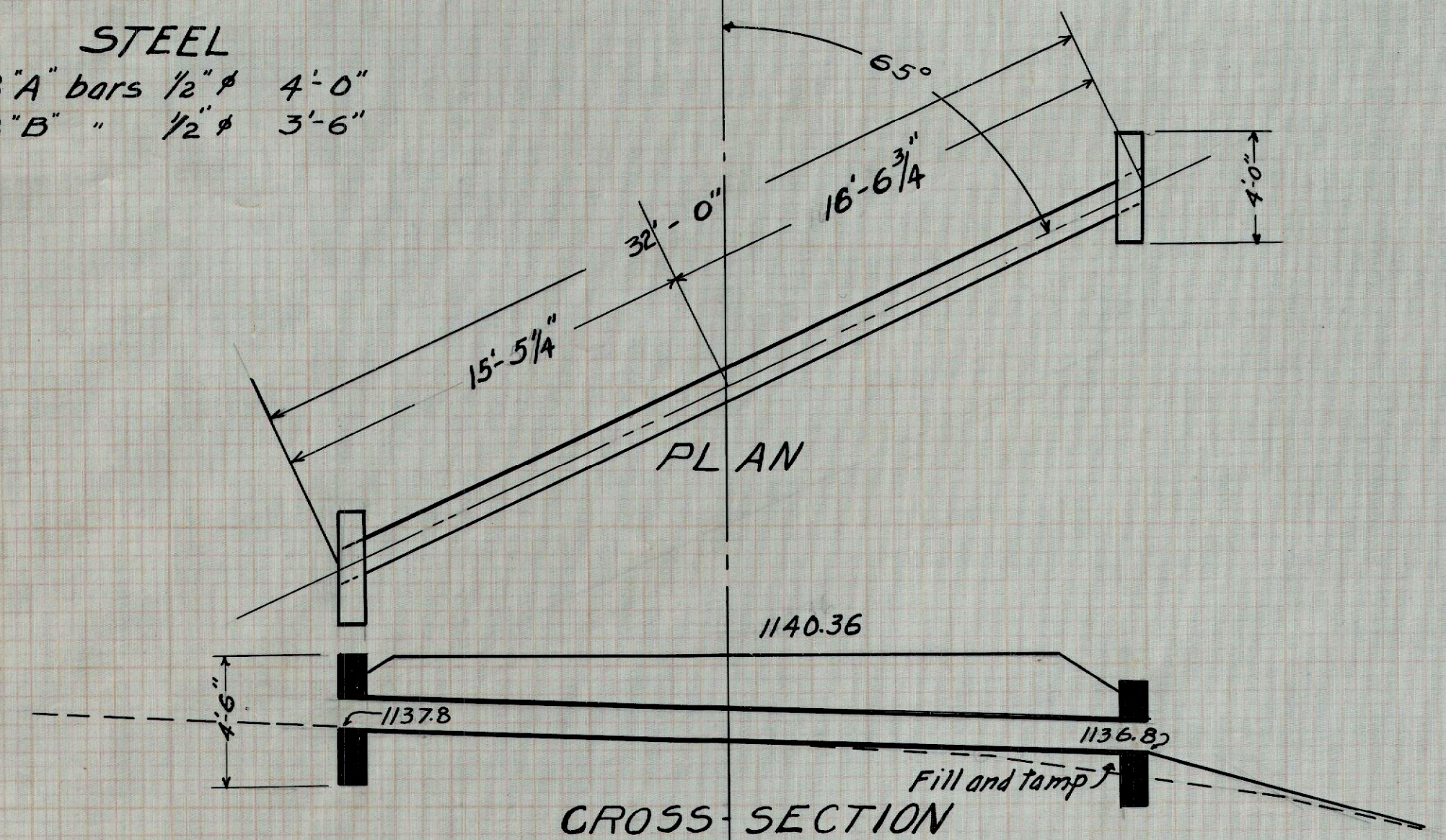
EST. QUANTITIES
 Exc. and refill 12 Cu Yds.
 Concrete 1:2:3 29 Cu Yds.
 Reinf. Steel 66 lbs.
 14" Cast Iron Pipe 40 Lin. Ft.

STEEL
 2-A bars 1/2" φ 7'-6" long
 2-B " 1/2" φ 8'-6" "
 16-C " 1/2" φ 4'-2" "

BRIDGE DATA
 Type - Std. side road pipe Culvert
 Size - 14" x 40"
 Work Req'd - New Culvert.

Sta. 88+49

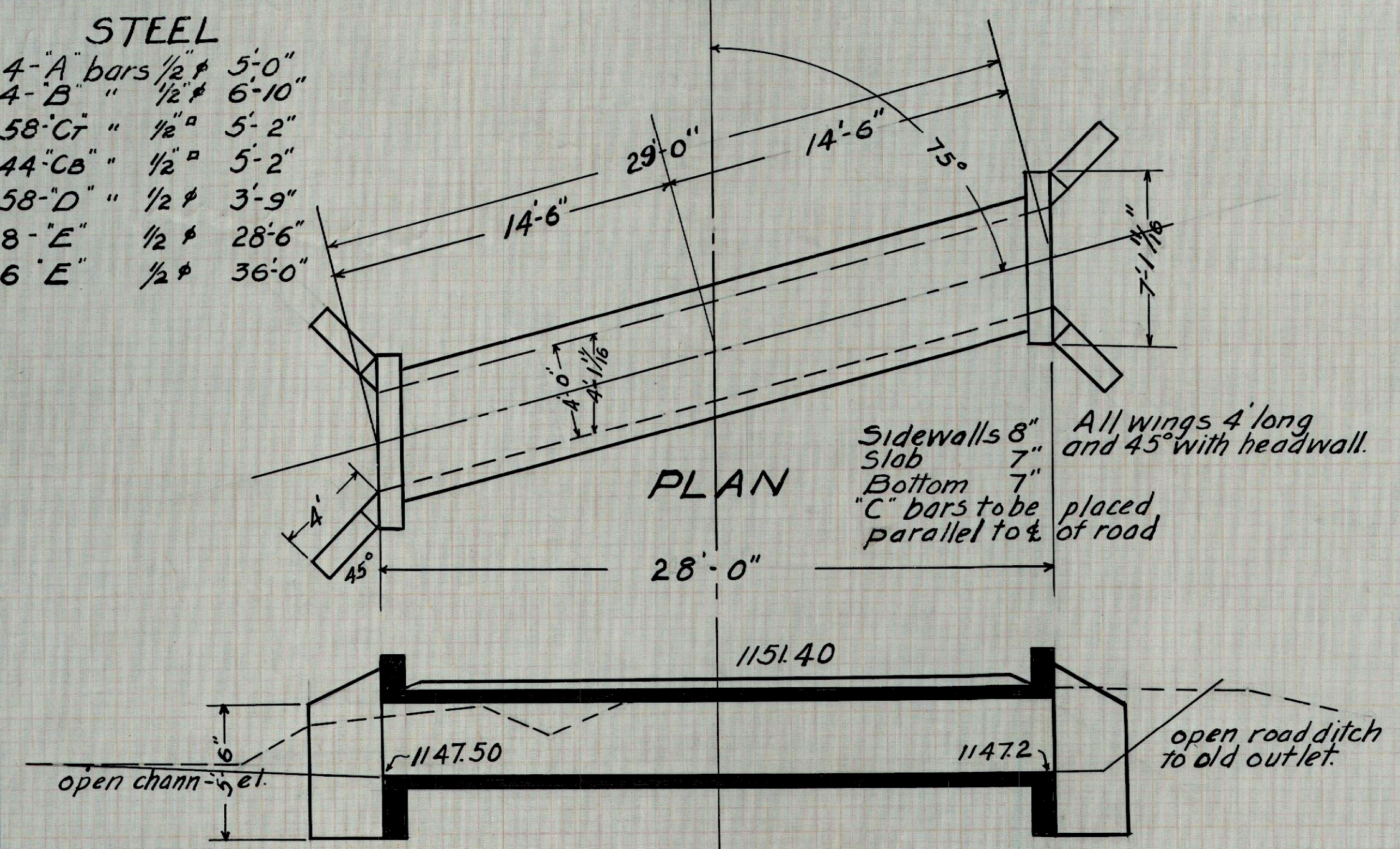
STEEL
8"A bars 1/2" 4'-0"
8"B " 1/2" 3'-6"



BRIDGE DATA
Type: Std. C.I.P. Culvert
Size: 12" x 32"
Work Req'd: New Culvert

ESTIMATE QUANTITIES
Exc. and refill 2 Cu Yds.
Concrete 1:2:3 1.3 Cu Yds.
Reinf. Steel 40 lbs.
12 Cast Iron Pipe 32 Lin Ft.
STA. 102+42

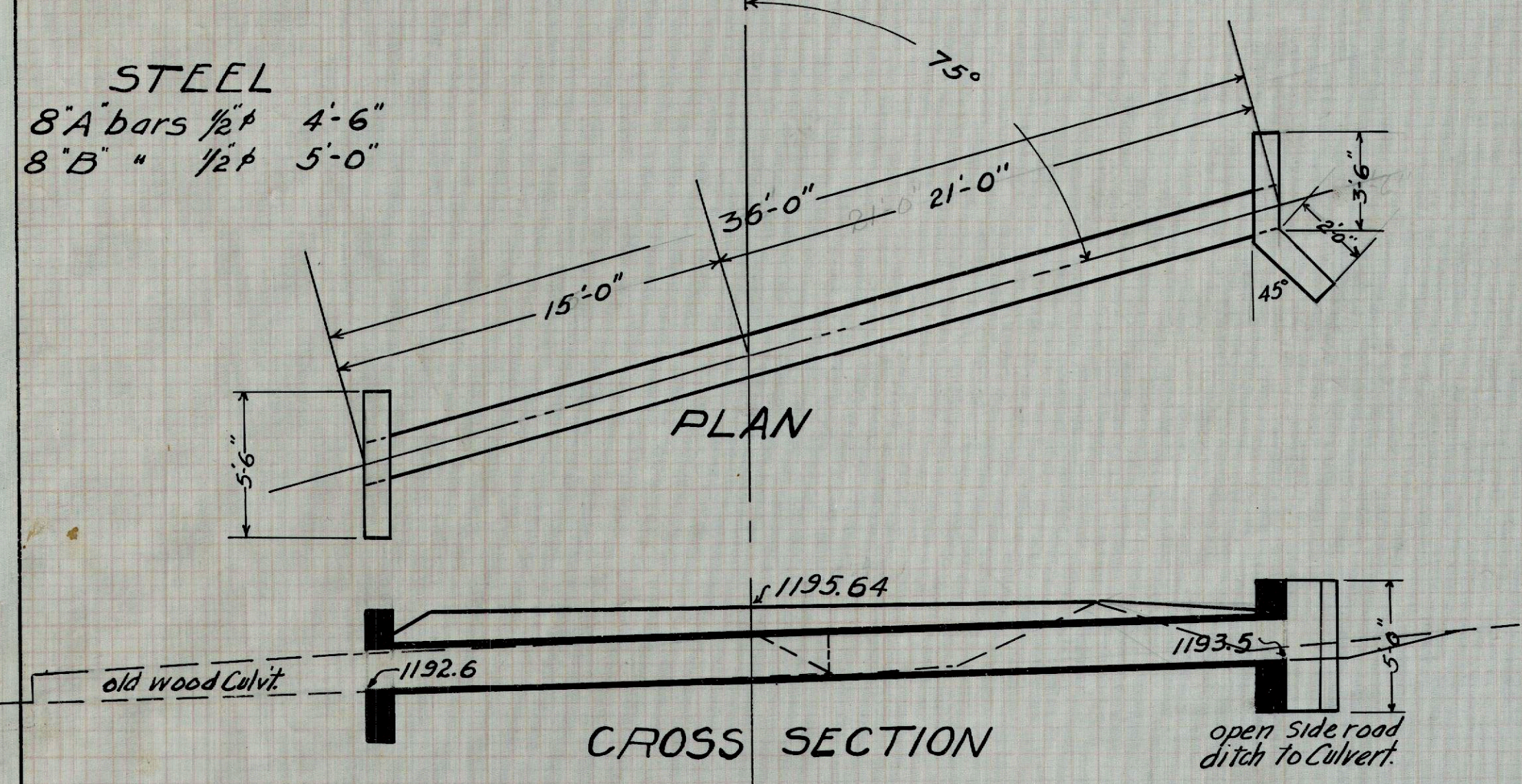
STEEL
4-A bars 1/2" 5'-0"
4-B " 1/2" 6'-10"
58-Cr " 1/2" 5'-2"
44-CB " 1/2" 5'-2"
58-D " 1/2" 3'-9"
8-E " 1/2" 28'-6"
6-E " 1/2" 36'-0"



BRIDGE DATA
Type: Std box Culvert (except as shown)
Size: 4' x 3' x 29'-0"
Work Req'd: Build new Culvert.

EST. QUANTITIES
Exc. and refill 31. Cu Yds.
Concrete 1:2:3 17.3 Cu Yds.
Reinf. Steel 931#
STA 148+75

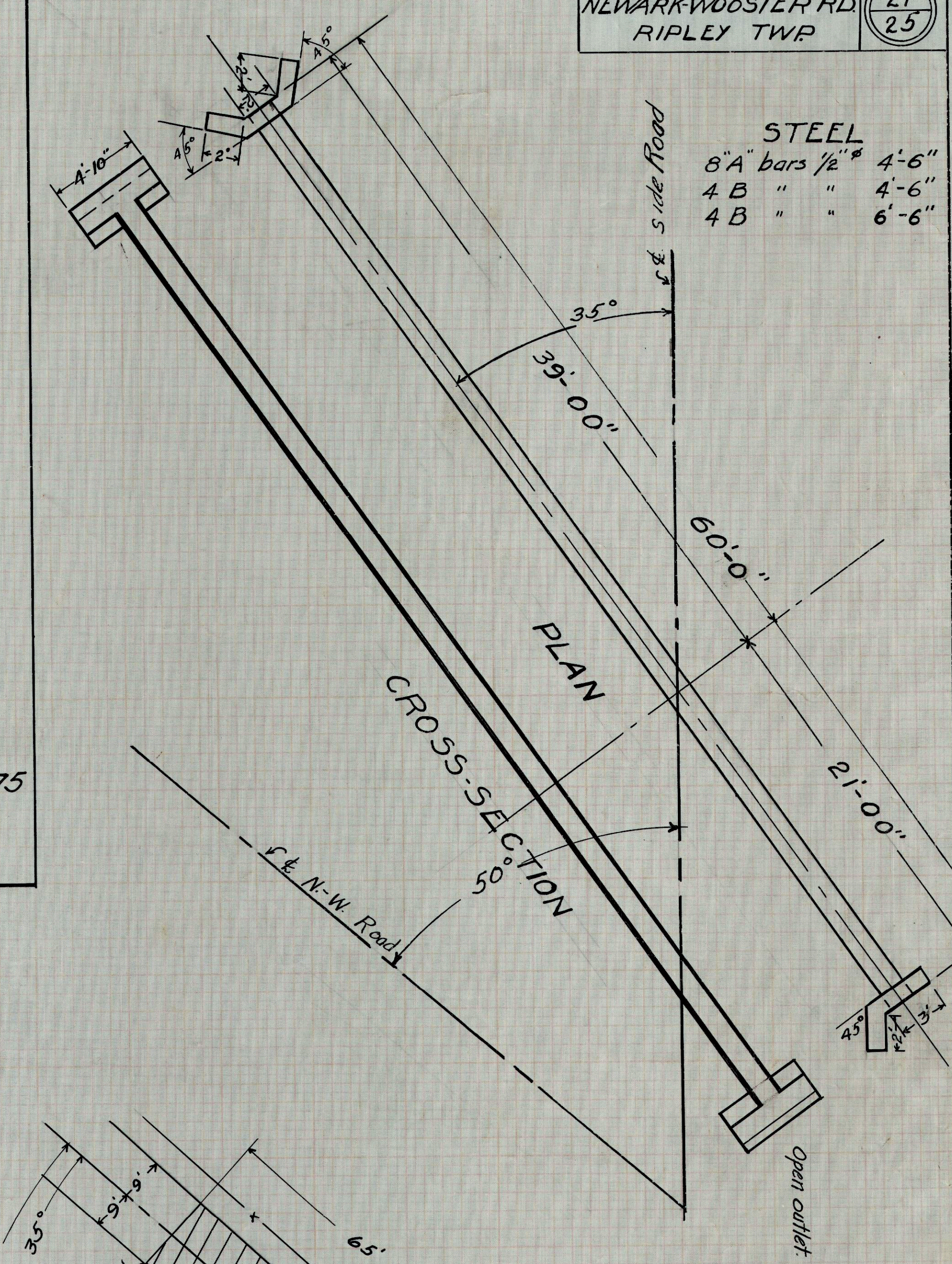
STEEL
8"A bars 1/2" 4'-6"
8"B " 1/2" 5'-0"



BRIDGE DATA
Type: Std. C.I.P. Culvert
Size: 18" x 36"
Work Req'd: Build new Culvert.
Remove Wood Culvert.

EST. QUANTITIES
Exc. and refill 5 Cu Yds.
Concrete 1:2:3 2.0 Cu Yds.
Reinf. steel 51 lbs.
18" Cast Iron Pipe 36 Lin Ft.
STA. 124+62

STEEL
8"A bars 1/2" 4'-6"
4 B " " 4'-6"
4 B " " 6'-6"



Intersection to be graveled as shown.

Bridge Data
Type: Std C.I.P. Culvert (except as shown).
Size: 16" x 60"
Work Req'd: Build new Culvert.
Remove 8" pipe.

Estimate Quantities
Excavation and refill 20 Cu. Yds.
Concrete 1:2:3 2 Cu. Yds.
Reinf. Steel 54 lbs.
16" Cast Iron Pipe 60 Lin Ft.

Culvert subject to change to meet existing conditions

Sta 151+00

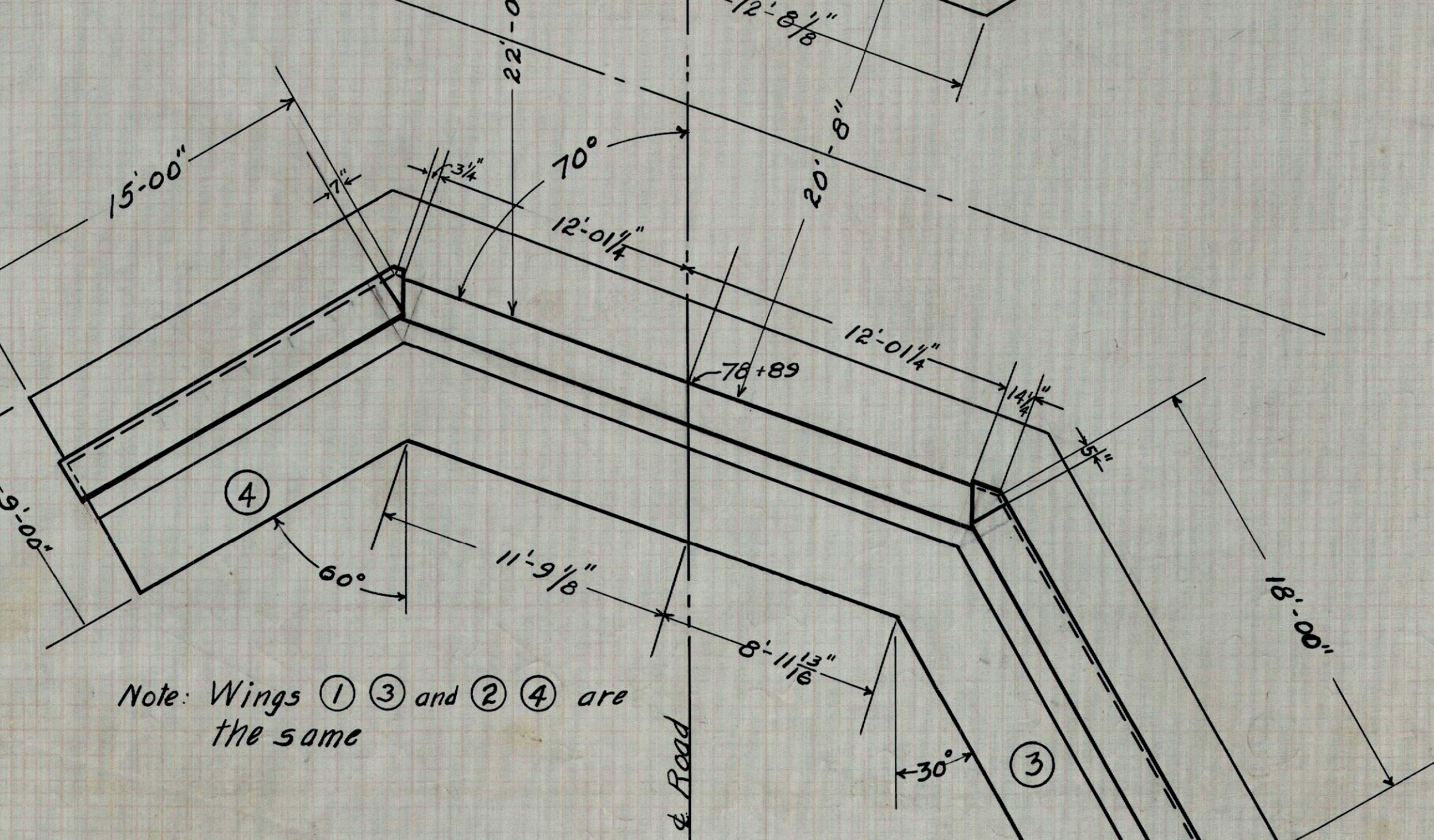
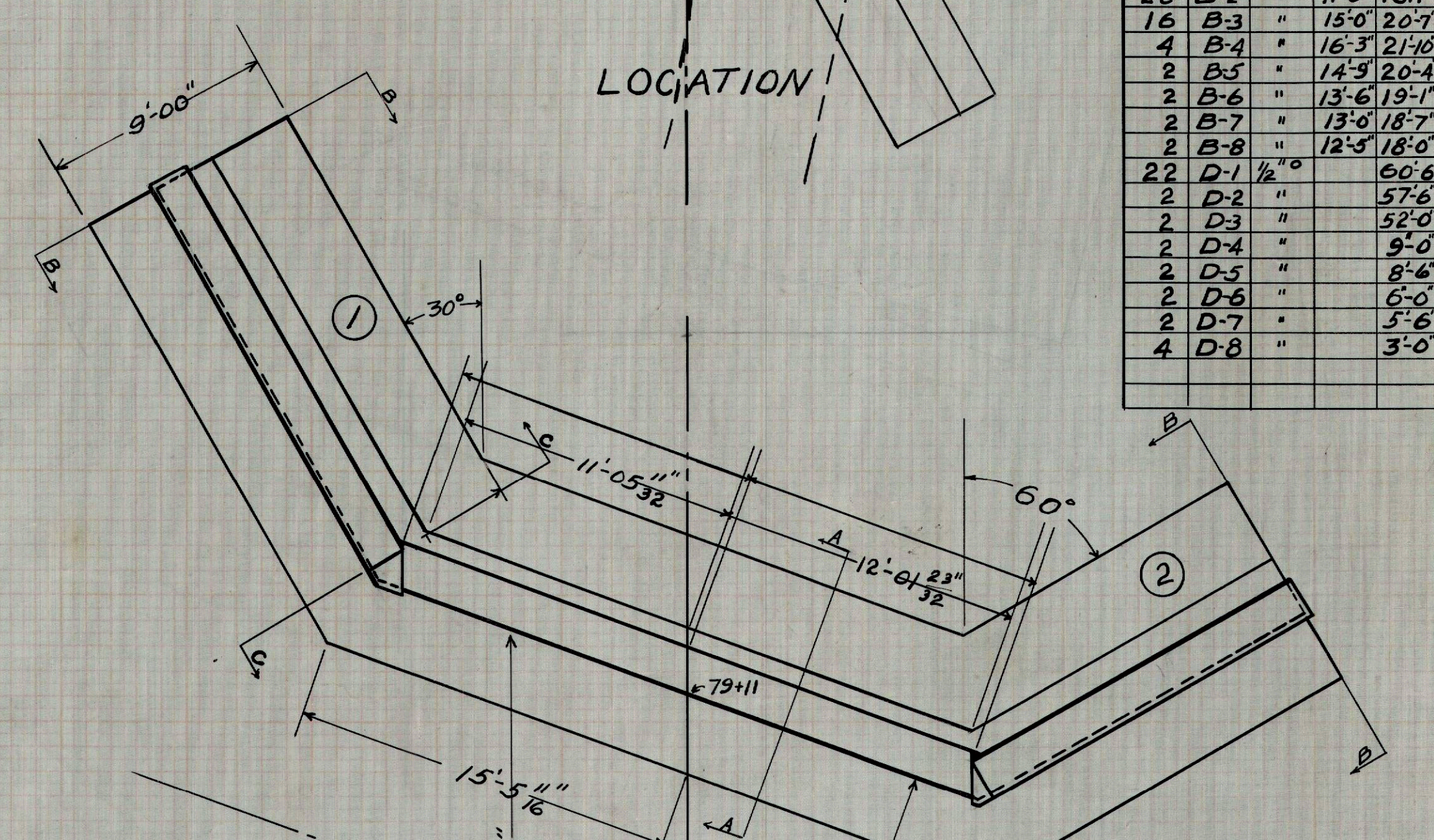
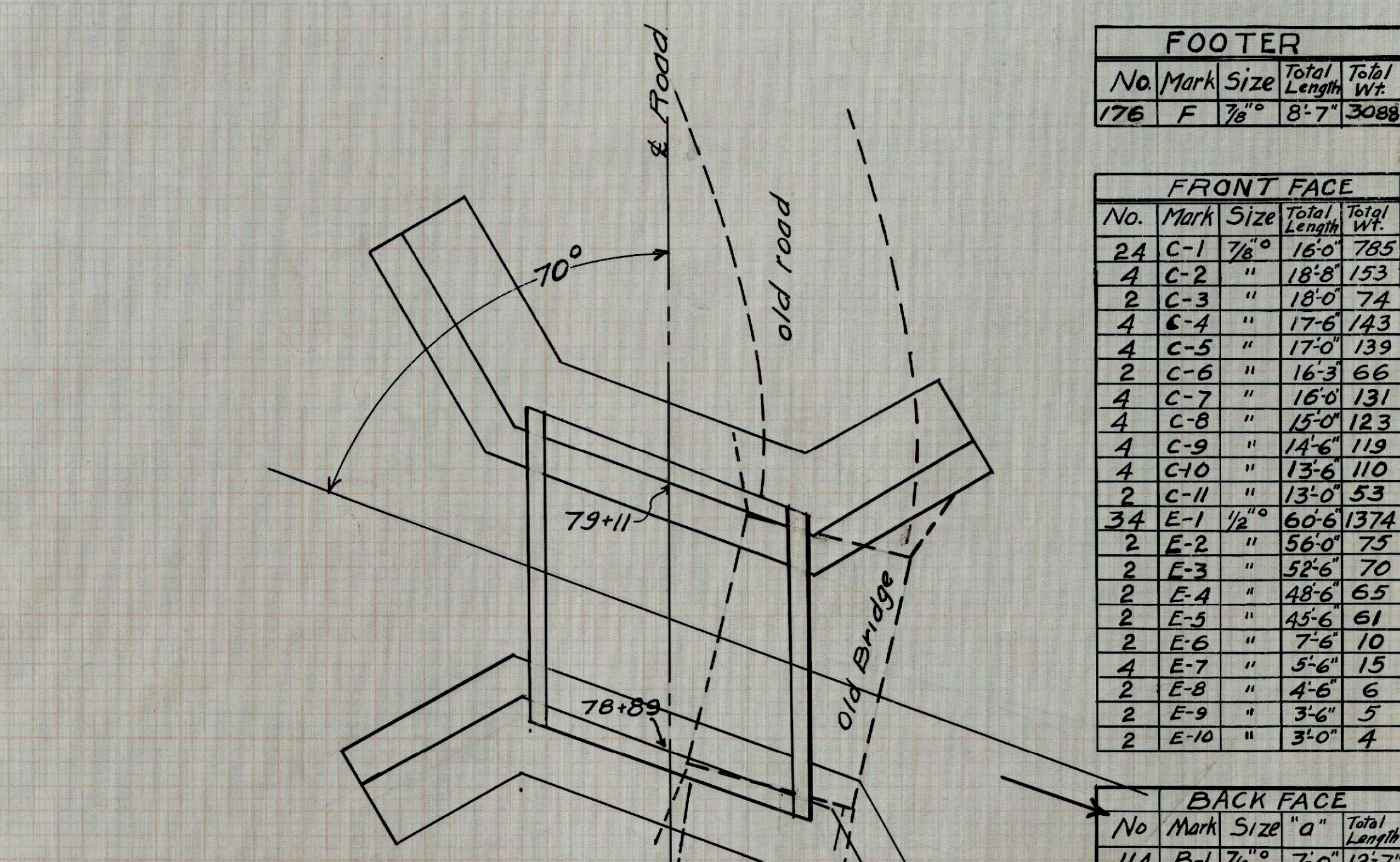
FOOTER				
No.	Mark	Size	Total Length	Total Wt.
176	F	7/8"	8'-7"	3088

FRONT FACE				
No.	Mark	Size	Total Length	Total Wt.
24	C-1	7/8"	16'-0"	785
4	C-2	"	18'-8"	153
2	C-3	"	18'-0"	74
4	C-4	"	17'-6"	143
4	C-5	"	17'-0"	139
2	C-6	"	16'-3"	66
4	C-7	"	16'-0"	131
4	C-8	"	15'-0"	123
4	C-9	"	14'-6"	119
4	C-10	"	13'-6"	110
2	C-11	"	13'-0"	53
34	E-1	1/2"	60'-6"	1374
2	E-2	"	56'-0"	75
2	E-3	"	52'-6"	70
2	E-4	"	48'-6"	65
2	E-5	"	45'-6"	61
2	E-6	"	7'-6"	10
4	E-7	"	5'-6"	15
2	E-8	"	4'-6"	6
2	E-9	"	3'-6"	5
2	E-10	"	3'-0"	4

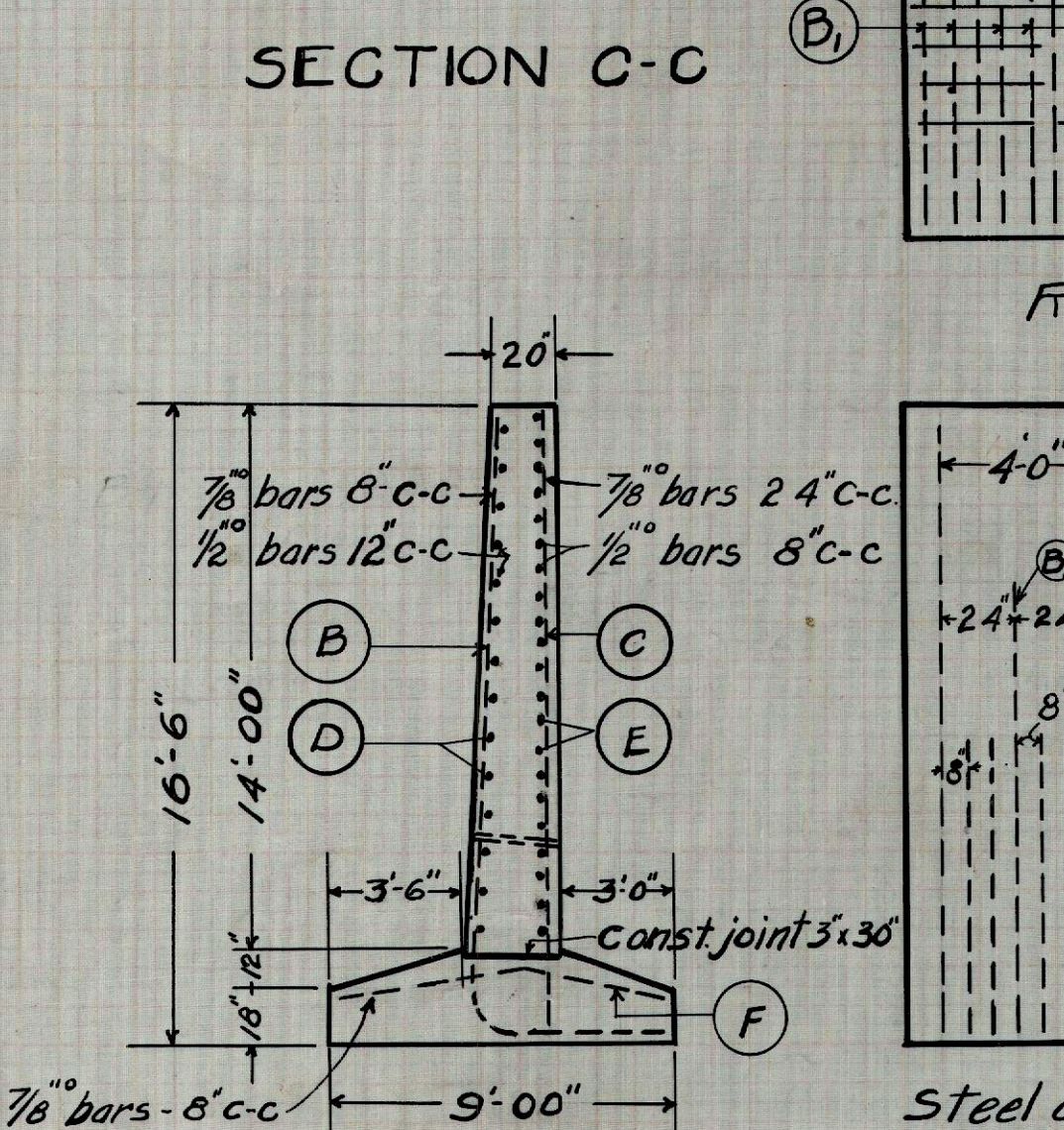
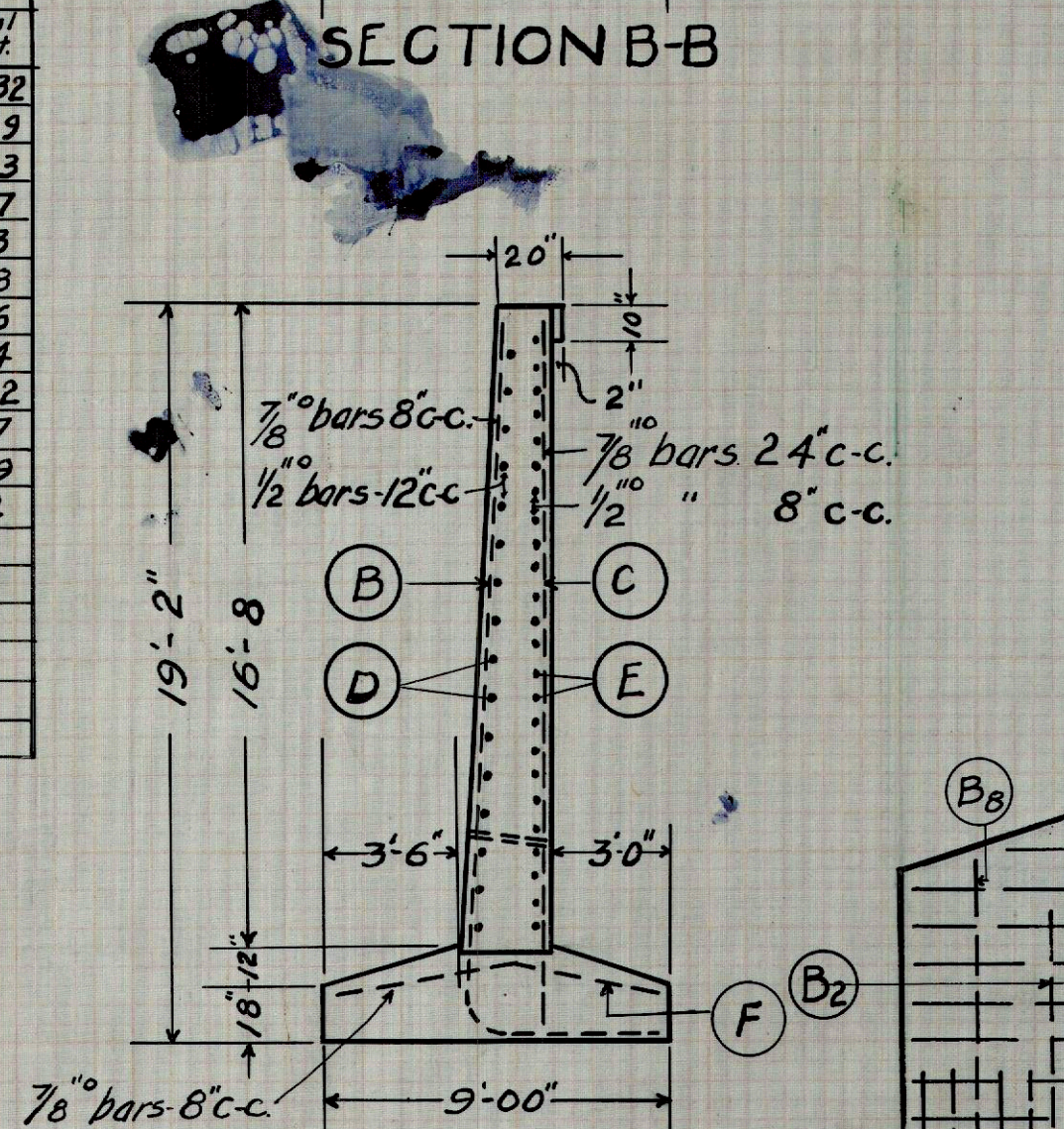
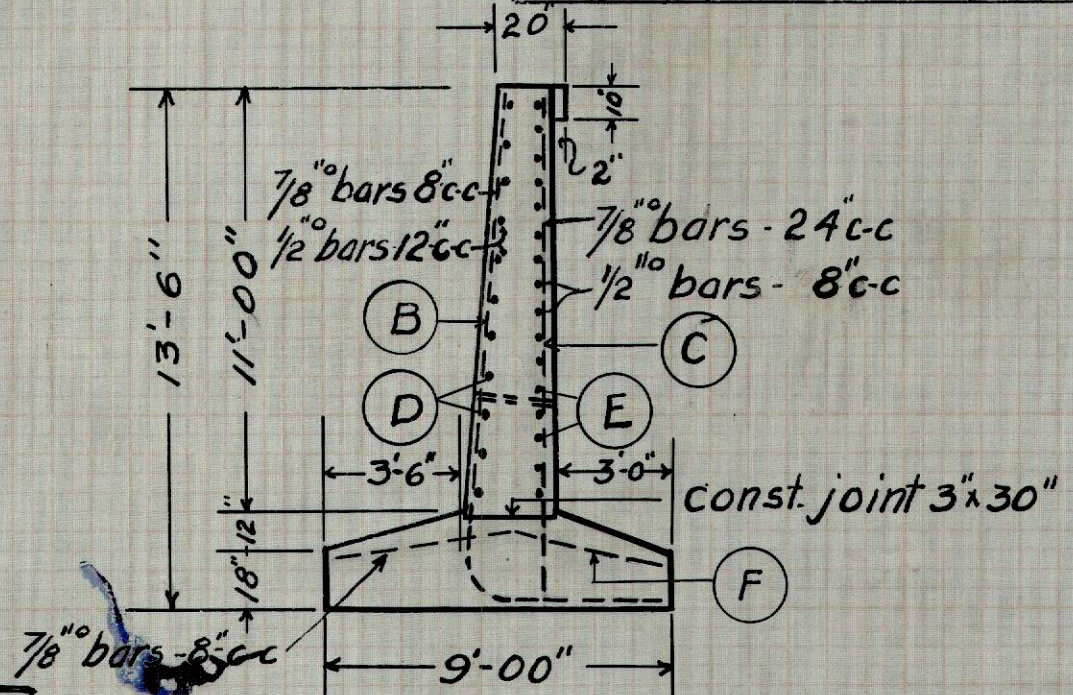
BACK FACE				
No.	Mark	Size	Total Length	Total Wt.
114	B-1	7/8"	7'-0"	2932
28	B-2	"	11'-0"	949
16	B-3	"	15'-0"	673
4	B-4	"	16'-3"	177
2	B-5	"	14'-3"	83
2	B-6	"	13'-6"	78
2	B-7	"	13'-0"	76
2	B-8	"	12'-3"	74
22	D-1	1/2"	60'-6"	822
2	D-2	"	57'-6"	77
2	D-3	"	52'-0"	69
2	D-4	"	9'-0"	12
2	D-5	"	8'-6"	11
2	D-6	"	6'-0"	8
2	D-7	"	5'-6"	7
4	D-8	"	3'-0"	8

Horizontal Bars E-1-2-3-4-5 and D-1-2-3 to be lapped 18" and Laps to be staggered

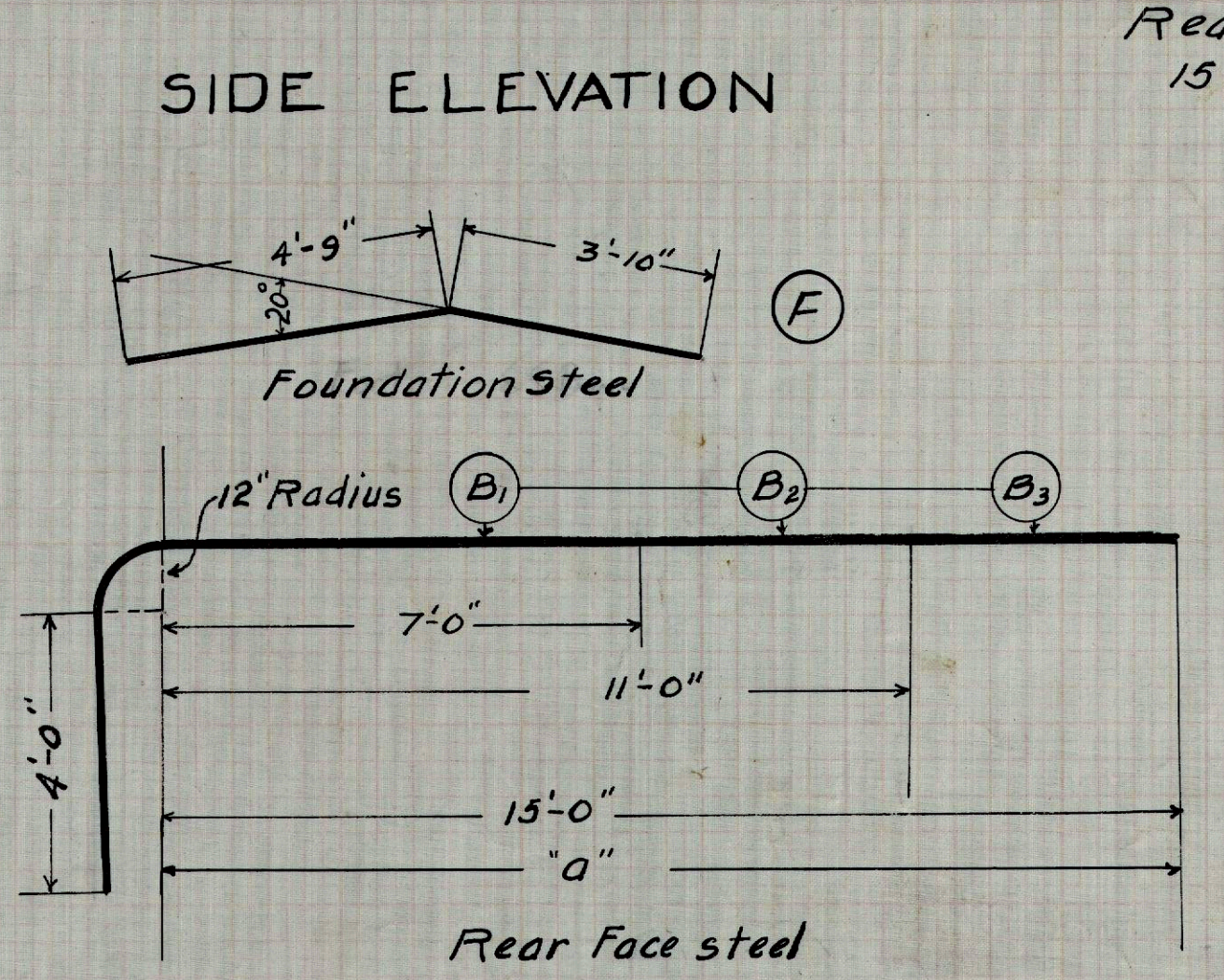
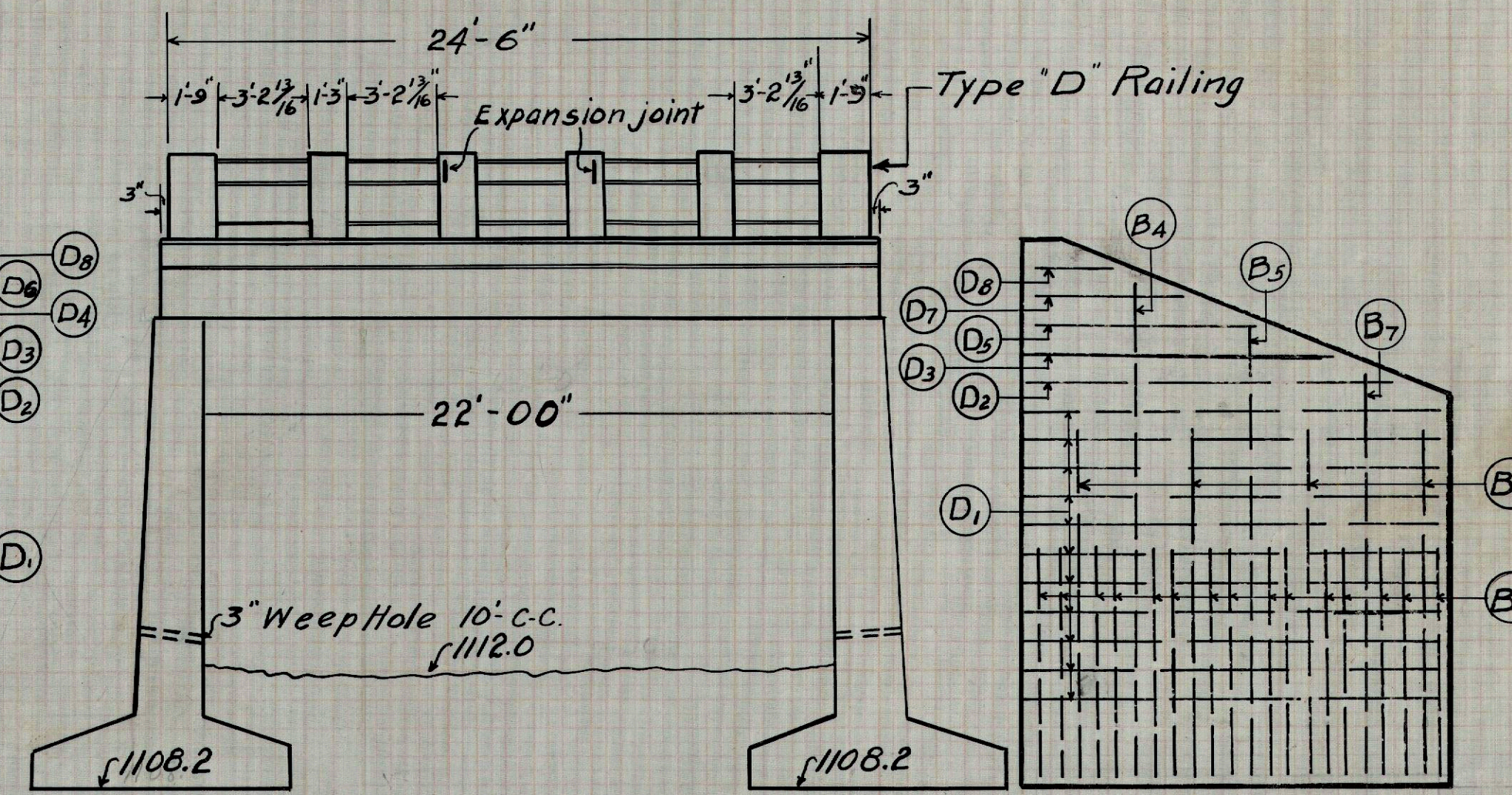
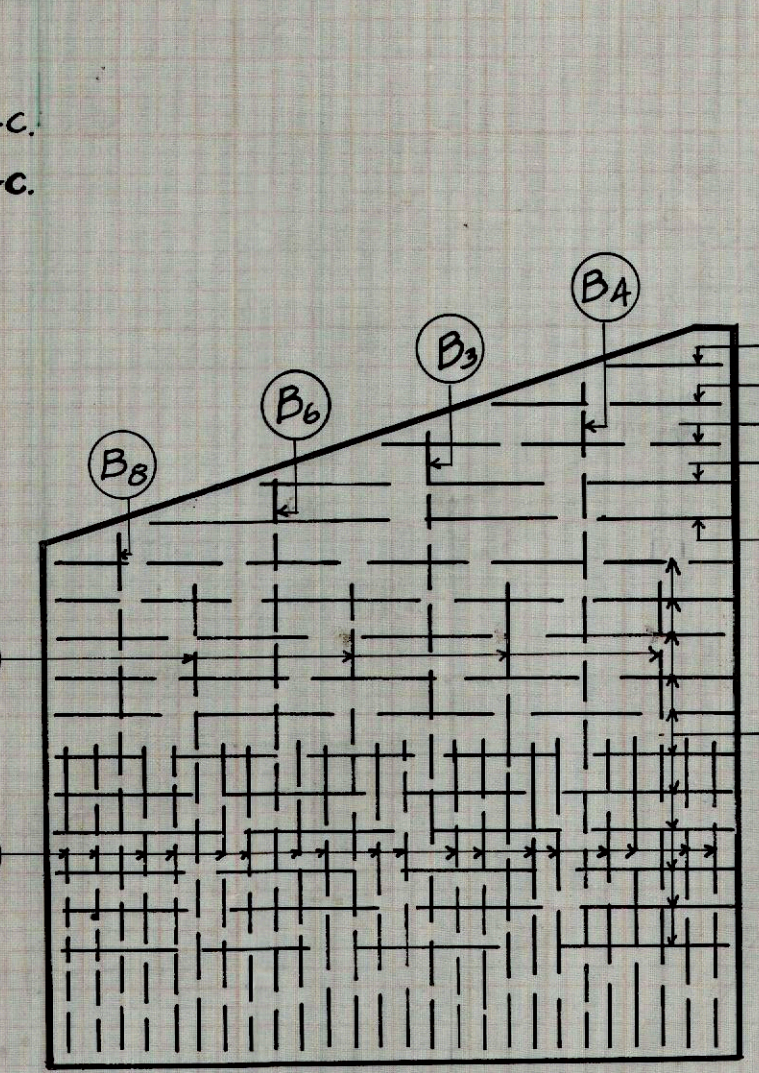
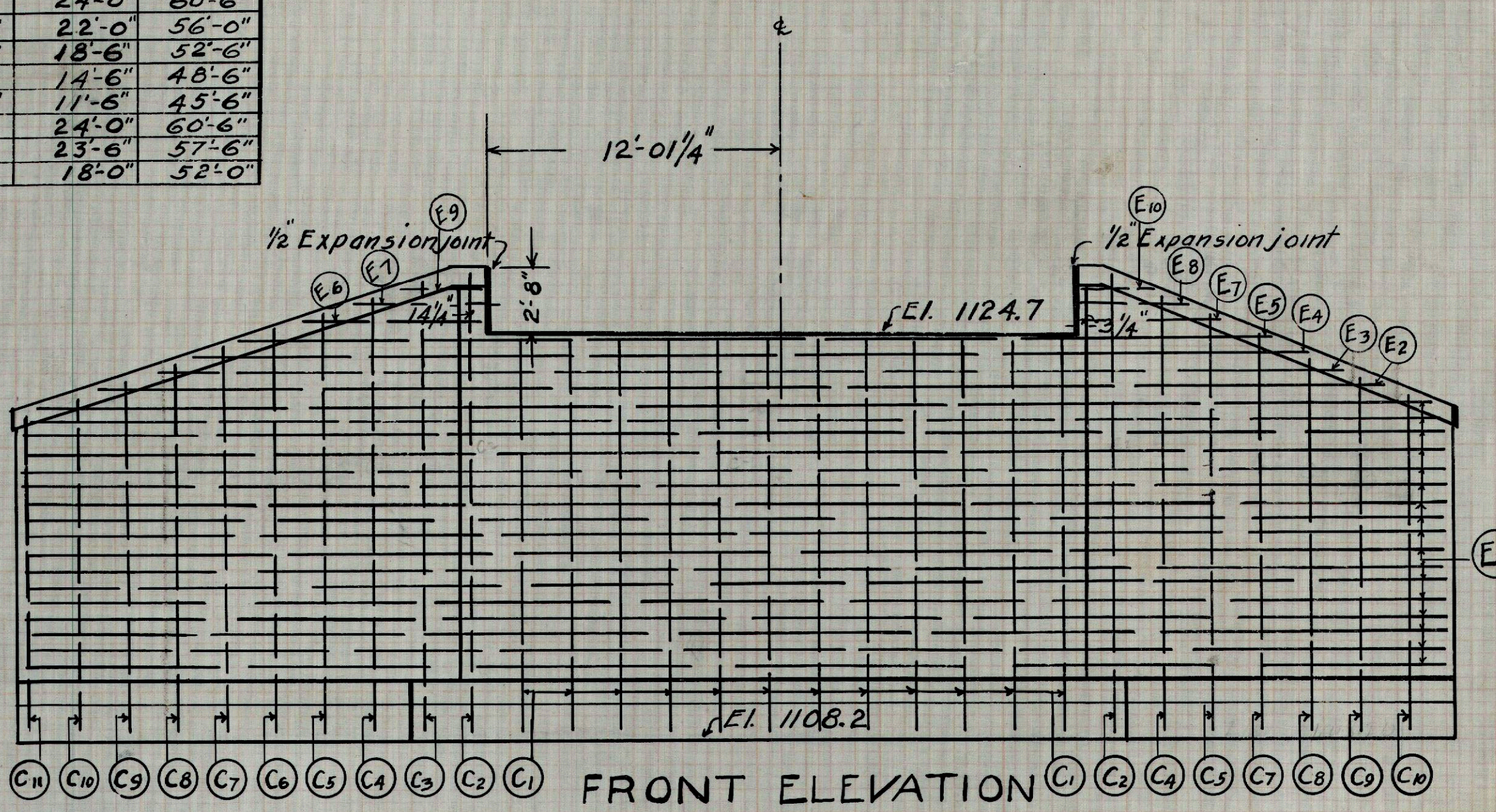
Bar	Lengths		Total Len
E-1	16'-0"	20'-6"	60'-6"
E-2	16'-0"	18'-0"	52'-0"
E-3	16'-0"	18'-0"	52'-0"
E-4	16'-0"	18'-0"	52'-0"
E-5	16'-0"	18'-0"	52'-0"
D-1	16'-0"	20'-6"	60'-6"
D-2	16'-0"	18'-0"	52'-0"
D-3	16'-0"	18'-0"	52'-0"



Note: Wings ① ③ and ② ④ are the same

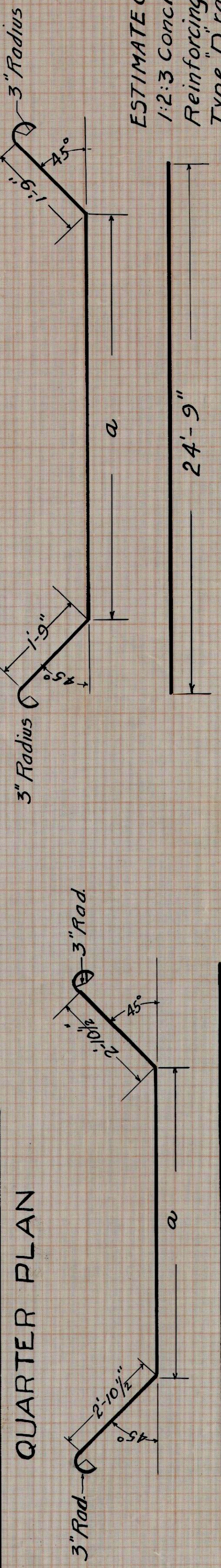
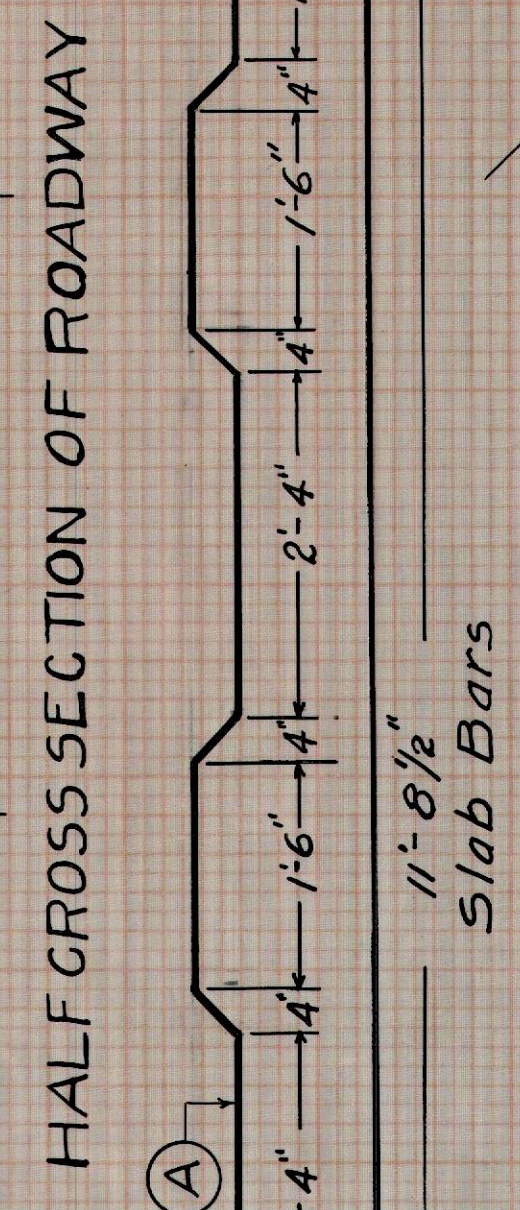
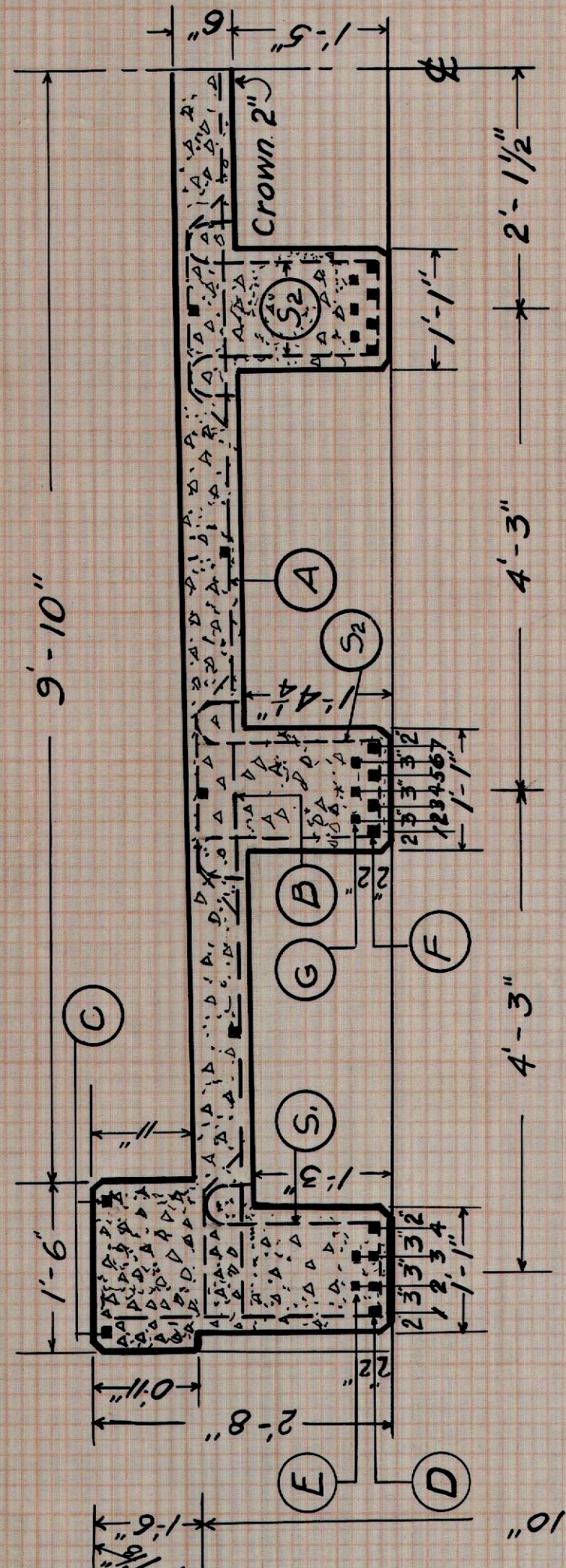
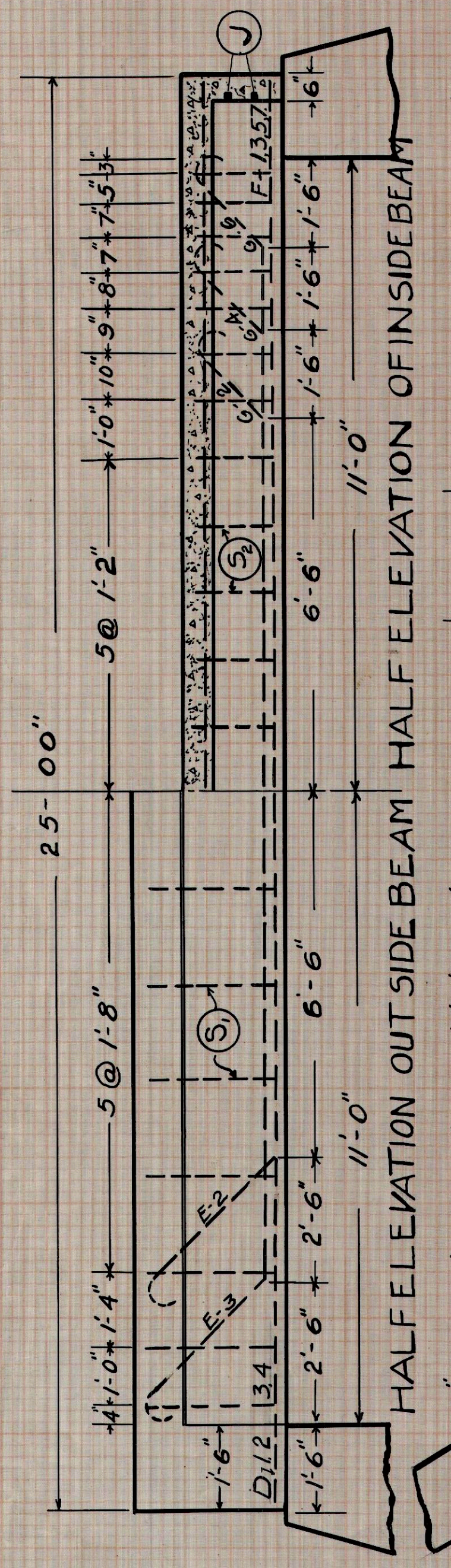
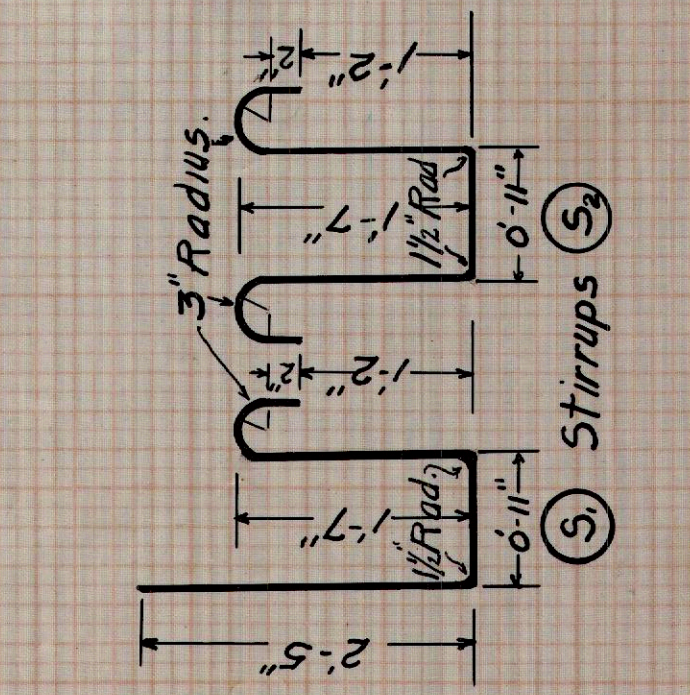


Note: All steel in sub-structure to be 3\"/>



ESTIMATE QUANTITIES
1-2 1/2:4 Concrete 198.5 CuYds.
Rein. Steel 12725-lbs
Excavation and backfill
Wet 190 CuYds.
Dry 225 \"

SUB-STRUCTURE
Sta. 79+00



ESTIMATE QUANTITIES
1:2:3 Concrete 21 1/2 Cu Yds.
Reinforcing steel 4346 lbs
Type "D" railing 49 Lin. ft.
Expansion joint 16 Sq. ft.
Spacers, and chairs

SUPER-STRUCTURE
Sta. 79+00

Note: All reinforcing to be deformed bars.

Outside beam bars

No.	Mark	Size	"a"	Length	Perft.	Wgt.
2	D-1	3/4"	24'-9"	24'-9"	94	94
2	D-2	"	24'-9"	24'-9"	94	94
2	D-3	"	24'-9"	24'-9"	94	94
2	D-4	"	24'-9"	24'-9"	94	94
2	E-2	"	13'-0"	20'-4"	78	78
2	E-3	"	17'-0"	24'-4"	93	93
30	S-1	3/8"		5'-7 1/2"	181	181

Inside beam bars

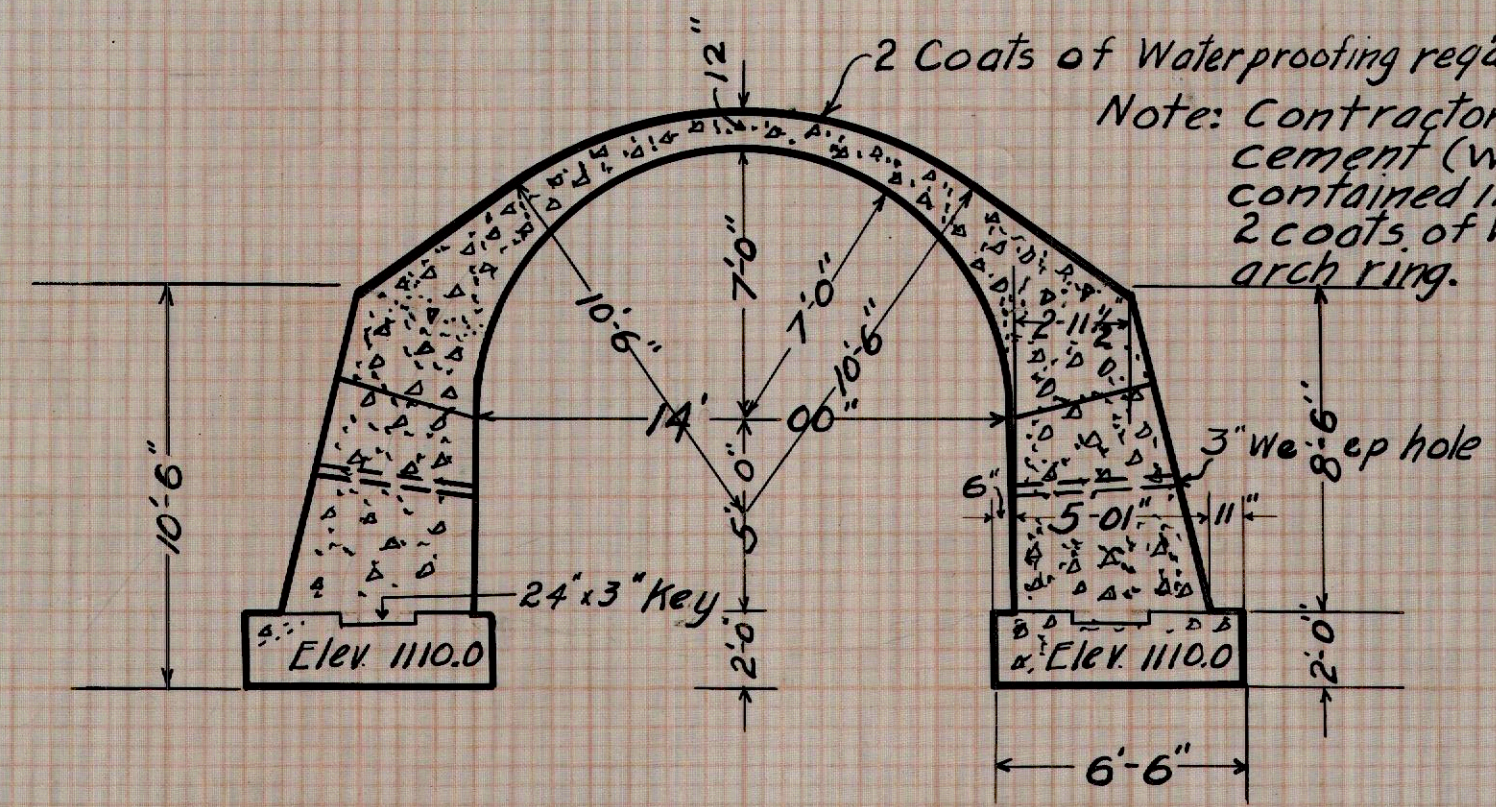
No.	Mark	Size	"a"	Length	Perft.	Wgt.
4	F-1	7/8"	24'-9"	24'-9"	258	258
4	F-3	"	24'-9"	24'-9"	258	258
4	F-5	"	24'-9"	24'-9"	258	258
4	G-2	"	13'-0"	18'-1"	188	188
4	G-4	"	15'-0"	21'-1"	220	220
4	G-6	"	19'-0"	24'-1"	251	251
100	S-2	3/8"		5'-6"	283	283

Slab

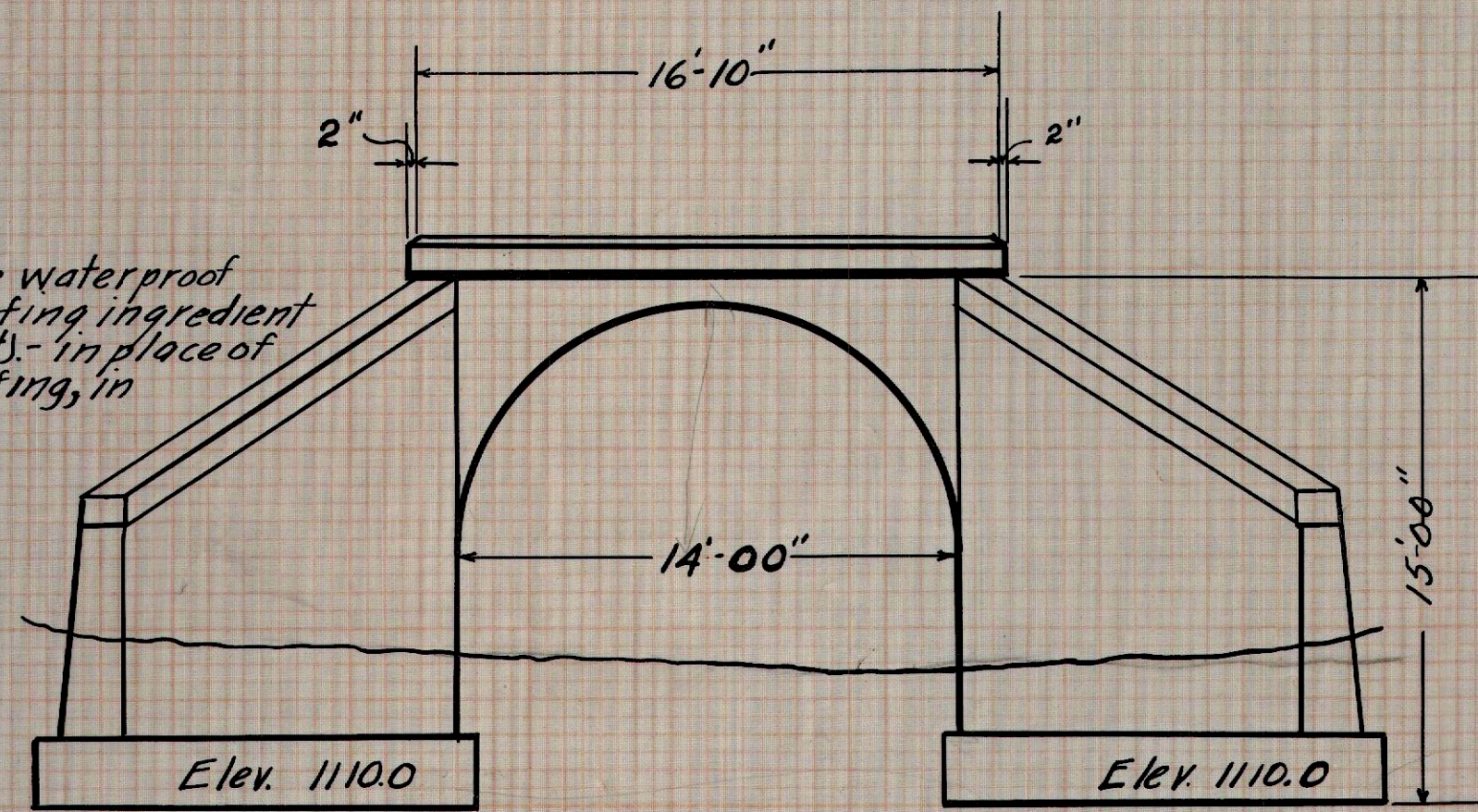
No.	Mark	Size	"a"	Length	Perft.	Wgt.
28	A	1/2"	24'-4"	579	579	579
27	B	1/2"	23'-5"	537	537	537
13	C	3/8"	24'-6"	153	153	153
4	J	1/2"		235	80	80

Railing Steel

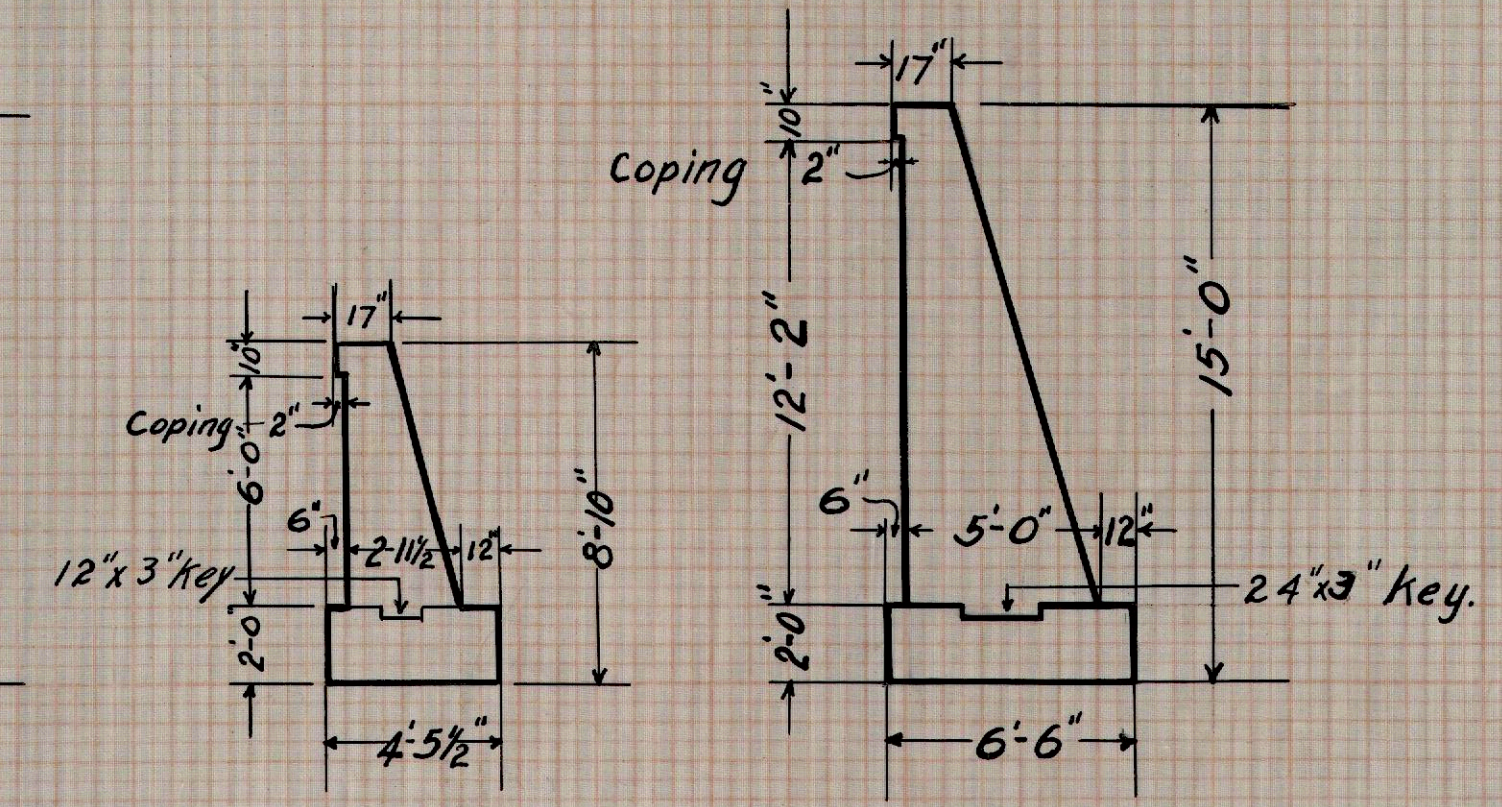
No.	Mark	Size	Perft.	Wgt.
48	Y	1/2"	4'-0"	163
12	X	"	9'-5"	97
12	X	"	9'-5"	97
12	X	"	5'-8"	58



SECTION ON & OF ROAD

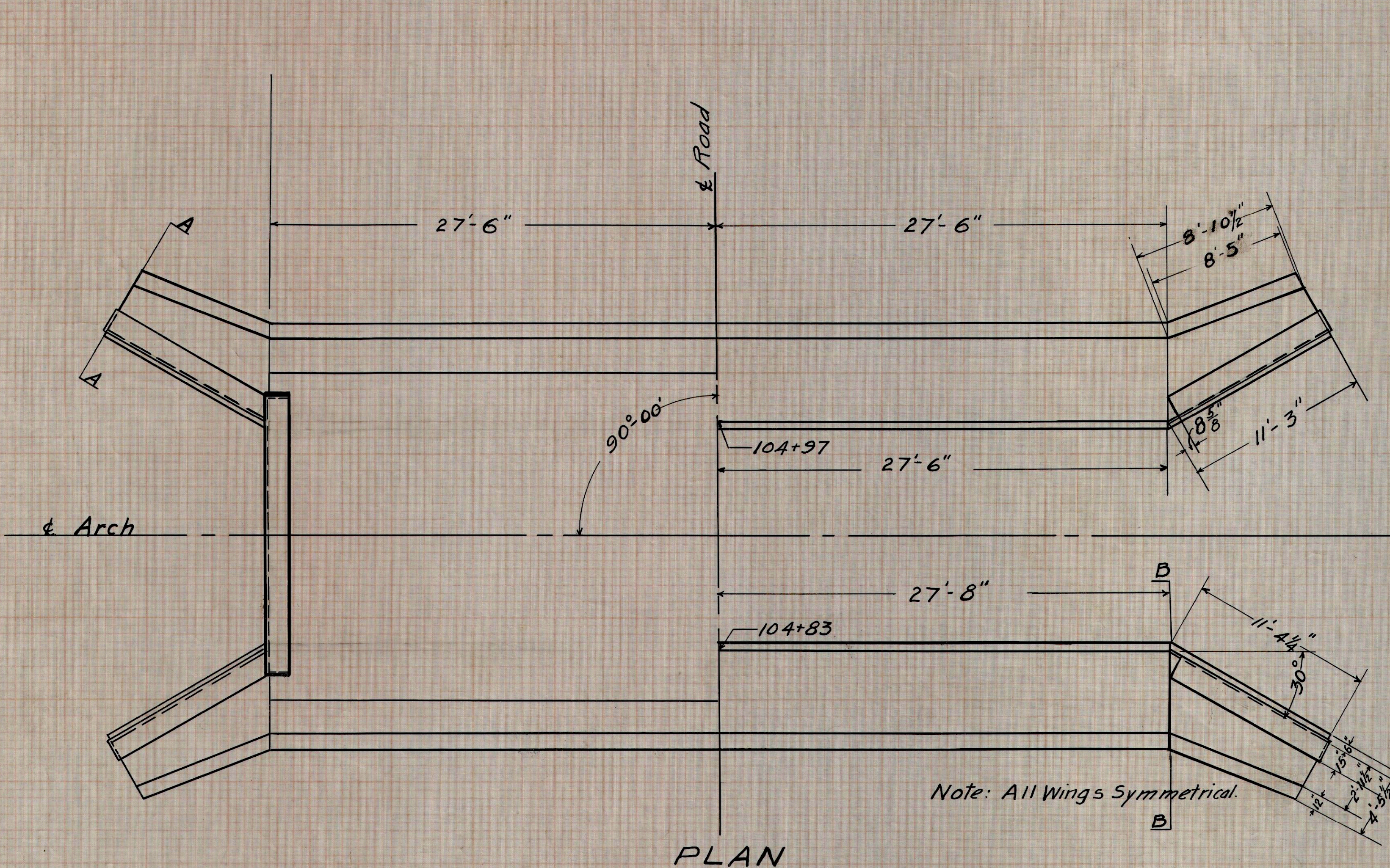


END ELEVATION

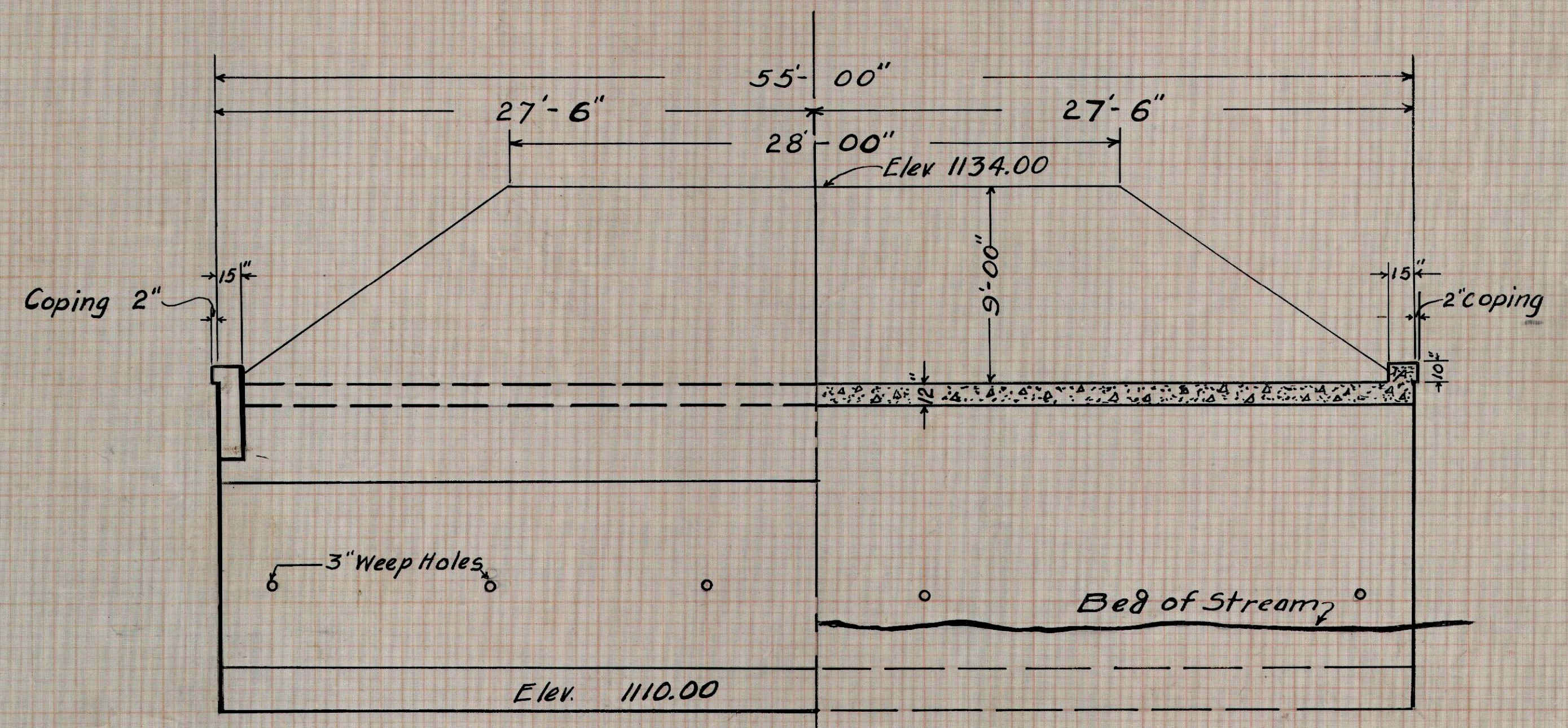


SECTION A-A

B-B



PLAN



ELEVATION

SECTION ON & OF ARCH

Note: All Wings Symmetrical.

ESTIMATE QUANTITIES	
1:2 1/2:4 Concrete	308 Cu.Yds.
Excavation	
Wet	180 Cu.Yds
Dry	160 " "
Fill over Arch	
Borrow	548 Cu.Yds.

CONCRETE ARCH
Sta. 104+90

SUMMARY OF QUANTITIES

ITEM	ROADWAY	QUANTITY
R-1	EXCAVATION	22 829 Cu. Yds.
R-1	Clearing and Grubbing Right of Way	One Sum
R-3	Finishing Shoulders, Slopes and Ditches (Both Sides)	15 281 Lin. Ft.
S-7	Vitrified Sewer Pipe for driveways 10"	Material Section 6-7 160 " "
S-7	" " " " " 18"	" " 6-7 20 " "
S-9	Corrugated Iron Pipe " " 12"	" " 6-4(b-3) 44 " "
S-9	" " " " " 15"	" " 6-4 " 40 " "
S-8	8" to 15" Pipe relaid " "	116 " "

PAVEMENT

T-2	Gravel for Pavement - Traffic bound	24 313 Sq. Yds.
T-2	Gravel for Approaches	30 Cu. Yds.

CULVERT

R-4	Excavation and Refill	Wet 370 Dry 565
S-1	Concrete 1:2:3 Mix	Material Sec. 2-1 + Sec 3-1 or 2 116.7 Cu. Yds.
S-1	" 1:2½:4 "	" " " " " 506.5 " "
S-4	Reinforcing steel	" " 7-1 22,212-lbs
S-8	Sectional Cast Iron Pipe 12"	" " 6-1 32 Lin. Ft.
S-8	" " " " " 14"	" " 6-1 111 " "
S-8	" " " " " 16"	" " 6-1 60 " "
S-8	" " " " " 18"	" " 6-1 64 " "
S-8	12" to 36" Pipe to be taken up	64 " "
S-1	TYPE "D" BRIDGE RAIL	49 " "
S-4	One sum metal bar spacers, chairs etc.	One Sum
M-10	Expansion joint	" "10-1 16 Sq. Ft.
M-10	Waterproofing	" "10-2 One Sum
I-14	Removing old structure and building temporary bridge	One Sum
R-2	Borrow	548 Cu. Yds.