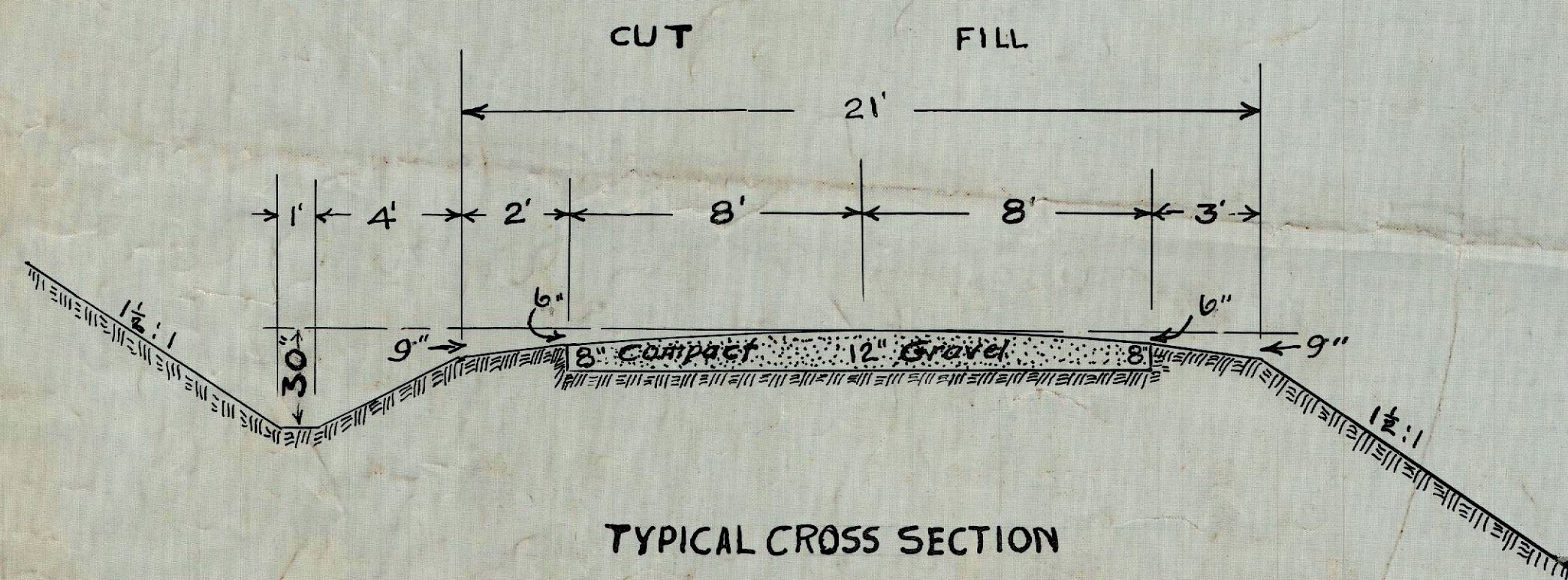


HOLMES COUNTY HIGHWAY

SEC.-B-MILLERSBURG-CHARM ROAD

COUNTY ROAD No 76. RESOLUTION UNDER SEC.6910 G.C.

BERLIN AND MECHANIC TOWNSHIPS



I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic. Defours will also be provided as shown

Approved _____
Date _____ COUNTY SURVEYOR

We the commissioners of Holmes county hereby approve these plans and certify that the right of way is available for the construction of this improvement

Date _____ 1923 Commissioners of Holmes Co., O.

SUMMARY OF QUANTITIES

ROADWAY

Borrow Fill C.Y.	Item R-1	330
Excavation unclassified C.Y.	" R-1	12937
Gravel pavement 12" center 8" sides compacted Sq. Yd.	" T-2	14317
Gravel pavement 12" center 12" sides compacted Sq. Yd.	" T-2	2415
Gravel pavement 9" center 9" sides loose Sq. Yd.	" T-2	345
Lin. Ft. finishing slopes and ditches	" R-7	9411
Clearing and grubbing and Removing Stone Building	" R-1	
Lin. Ft. removing culvert pipe 8" to 24"	" R-1	92
Loose gravel for approaches C.Y.	" T-2	75
Lin. Ft. Guard rail Type E	" R-4 material 8.2	2280
Lin. Ft. 6" V.S.P. Underdrain	" R-3 " " 6.7	56
Lin. Ft. Pipe Relaid for Private Driveways 8" to 24"	" S-7	162

CULVERTS AND BRIDGES UNDER 20'

For Quantities of Brgds under 16' subtract Quantities for Brgd Sta. 97+05 from these Quantities

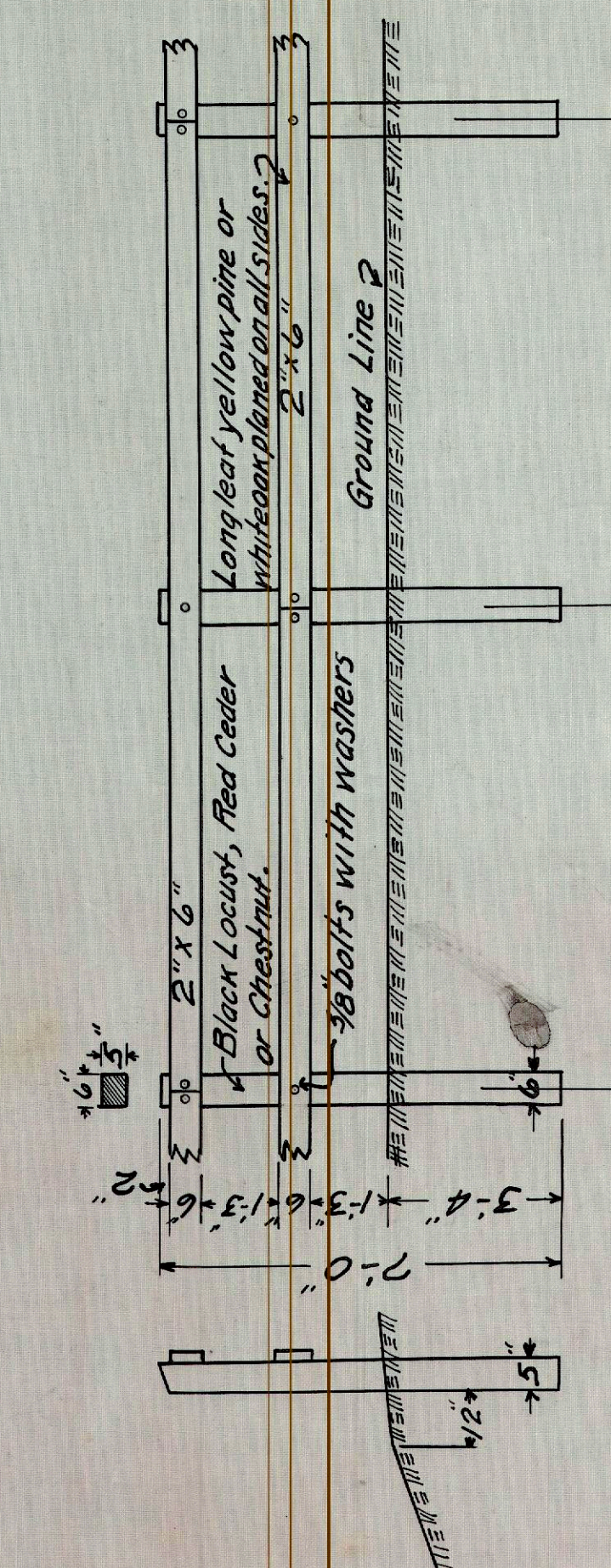
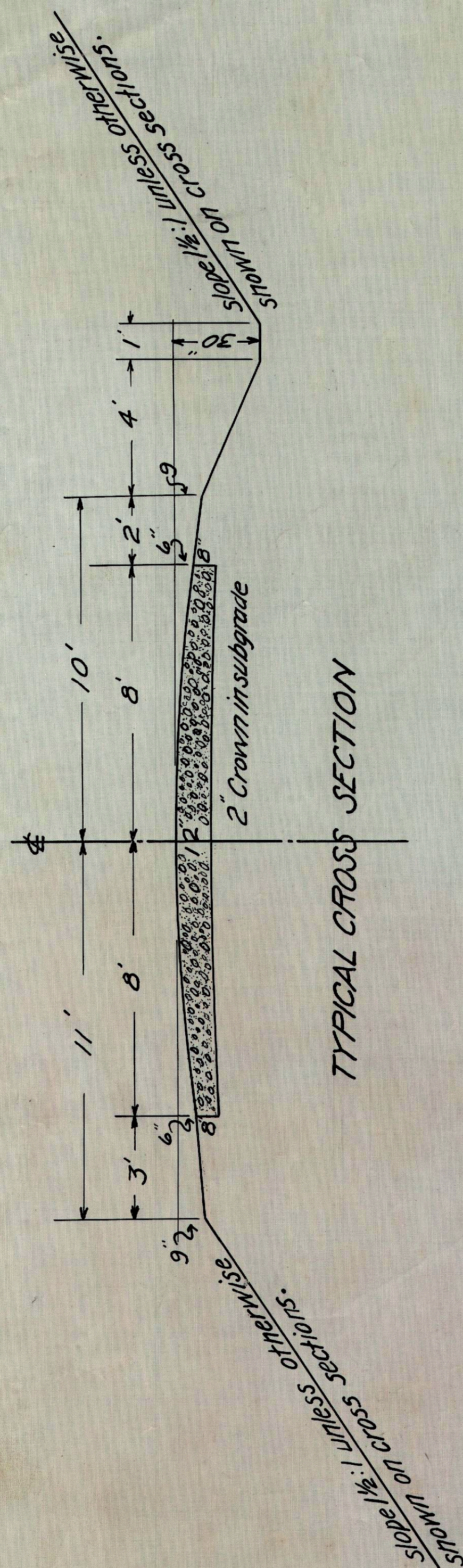
Excavation C.Y.	Item R-1	336
Channel excavation C.Y.	" R-1	53
1-3-5 Concrete C.Y.	" S-1 material 2.1 + 3.11	20.5
1-2 1/2-4 Concrete C.Y.	" S-1 " 2.1 + 3.11	41.1
1-2-4 Concrete C.Y.	" S-1 " 2.1 + 3.11	18.7
1-2-3 Concrete C.Y.	" S-1 " 2.1 + 3.11	70.1
Lin. Ft. Type G concrete bridge railing	" S-1 " 2.1 + 3.11	728
Reinforcing steel Lb.	" S-2 " 7.1	5612
Lin. Ft. 18" V.S.P.	" S-6 " 6.7	2
Lin. Ft. 12" Sectional C.I.P.	" S-7 " 6.1	132
Lin. Ft. 16" Sectional C.I.P.	" S-7 " 6.1	36
Lin. Ft. 18" Sectional C.I.P.	" S-7 " 6.1	32
Lin. Ft. 20" Sectional C.I.P.	" S-7 " 6.1	80
Lin. Ft. C.I.P. relaid 10" to 16"	" S-7	94
Lin. Ft. C.I.P. removed	" R-1	118
Removing old structure Sta. 97+05		
Bar chairs, ties & spacers	" S-1	

BRIDGES OVER 20'

For Total Quantities of Bridges over 16' Add Quantities of Brgd Sta. 97+05 to these Quantities

Dry excavation C.Y.	R-1	266	Tarred felt expansion (1/4") Sq. Ft.	60
Wet excavation C.Y.	R-1	180	Tarred felt expansion (1") Sq. Ft.	8.5
Channel excavation C.Y.	R-1	147	Double sleeve expansion joints Complete	5
Rock excavation C.Y.	R-1	16	Tarred paper 3 ply Sq. Ft.	182
Removing 2 old structures		2	3" V.S.P. Drains Sec. 6.7	8
2 Temporary bridges		2	Bar chairs, bar ties & bar spacers	
1-3-5 Concrete C.Y.	S-1 - 2.1 + 3.1	80.8	6" V.S.P. Drain Ft. Sec. 6.7	2
1-2 1/2-4 Concrete C.Y.	S-1 2.1 + 3.1	188.6		
1-2-3 Concrete C.Y.	S-1 2.1 + 3.1	139.4		
Lin. Ft. type G concrete bridge railing	2.1 + 3.1	209.12		
Reinforcing steel Lb.	S-2 - 7.1	29308		

Note - The aggregates for Concrete Structures over 16' shall be Grade A. Washed Sand Sec 2.1 and Grade A crushed lime stone Sec. 3.1.

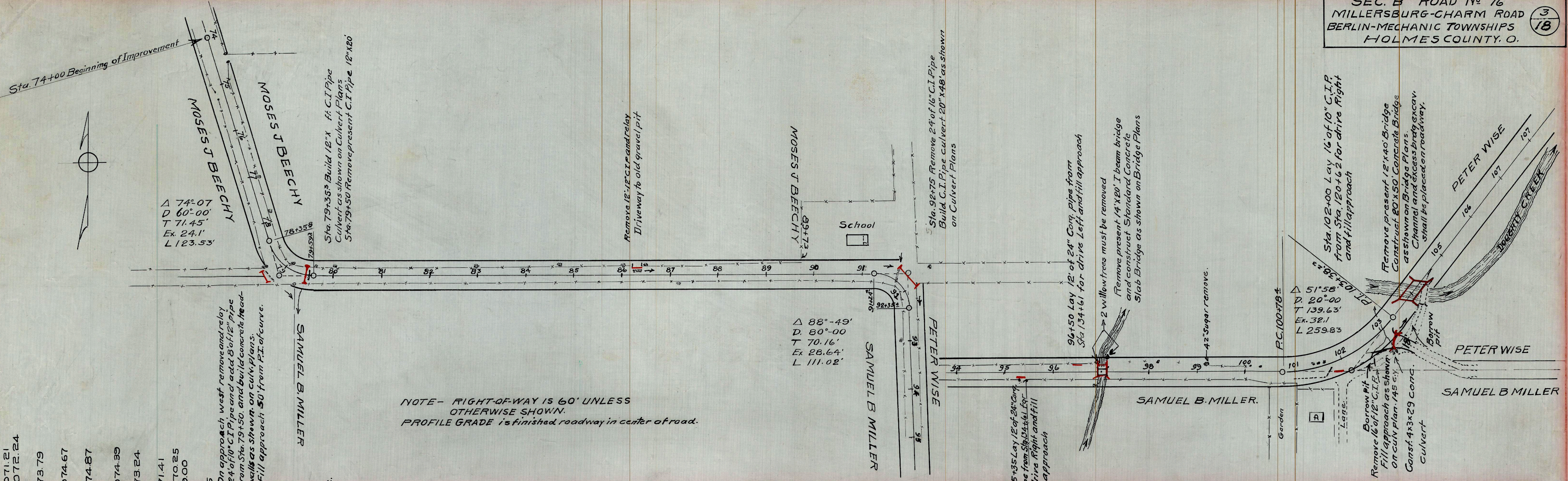


All surfaces in contact to be painted before assembling, and all exposed surfaces to have two (2) coats of white lead and linseed oil paint. Posts to be set vertically in line parallel to grade line. Rails to be secured to posts without splitting. In order to secure proper alignment and grade, bolt holes shall be bored and the top of posts trimmed after the posts are set and the rails nailed to them. Posts shall be treated with catbolium from a point one foot above the ground line to a point 1 foot below the ground line.

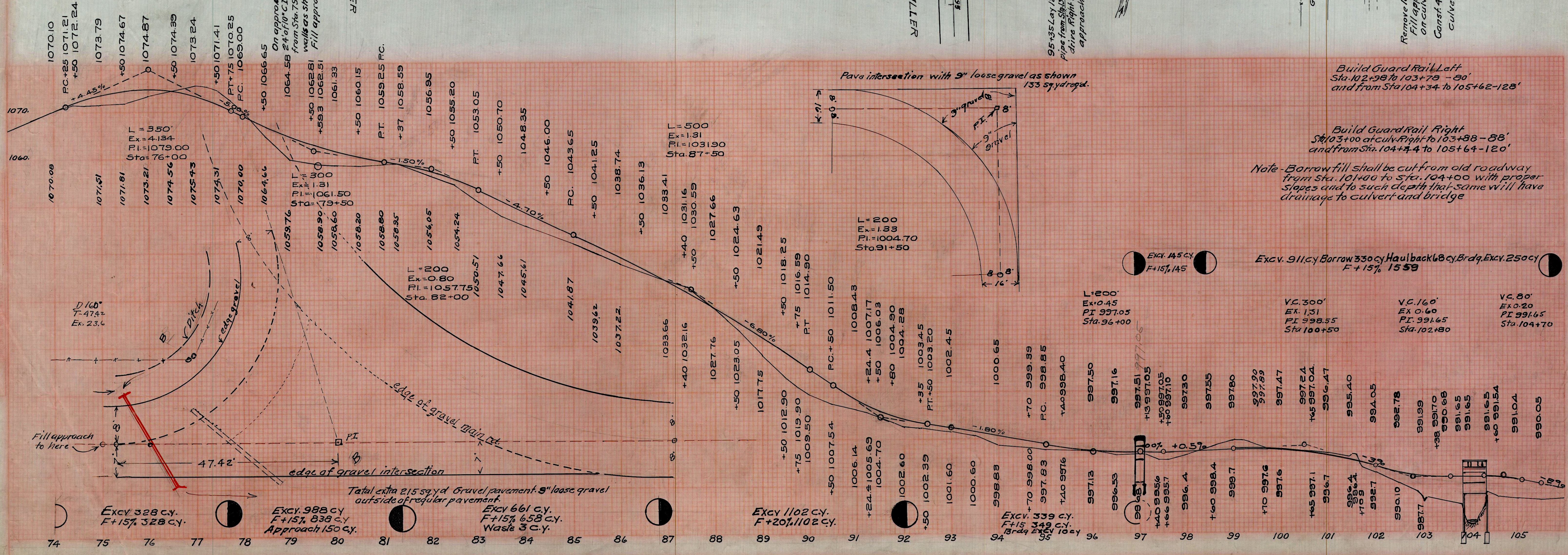
BILL OF MATERIALS FOR TWO PANELS

2 Wood Rails	2 1/2
2 Posts	5 1/2
6 Carriage Bolts	3/8
6 Washers	3/8
6 Nails	40 d

TYPE E GUARD RAIL
STATE HIGHWAY DEPARTMENT

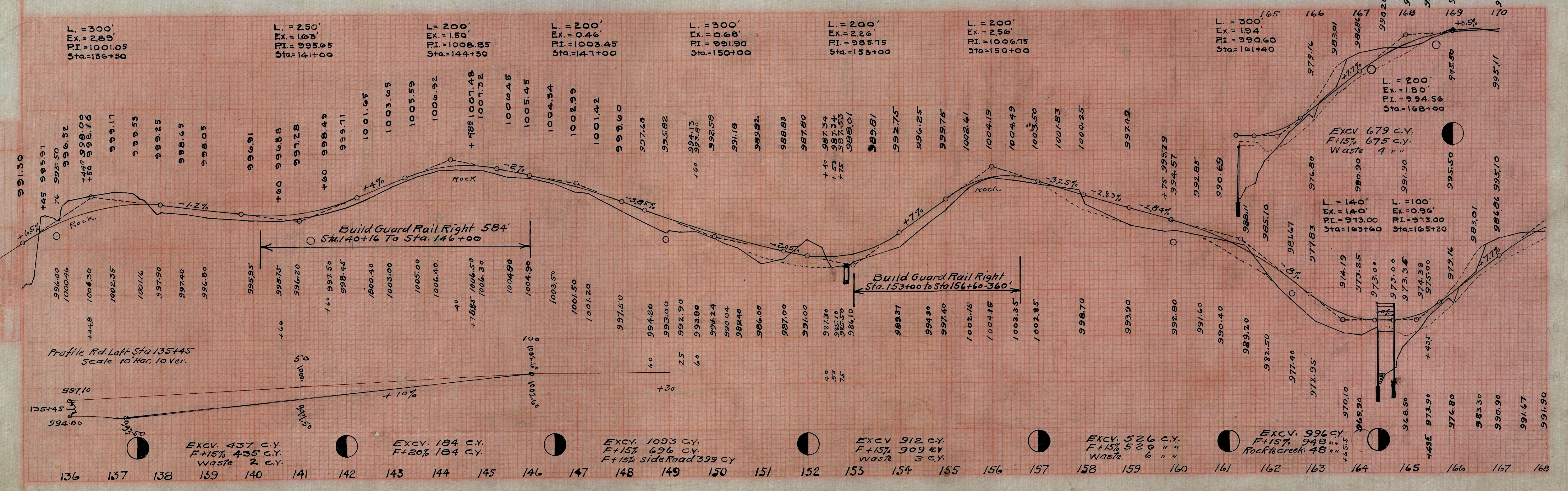
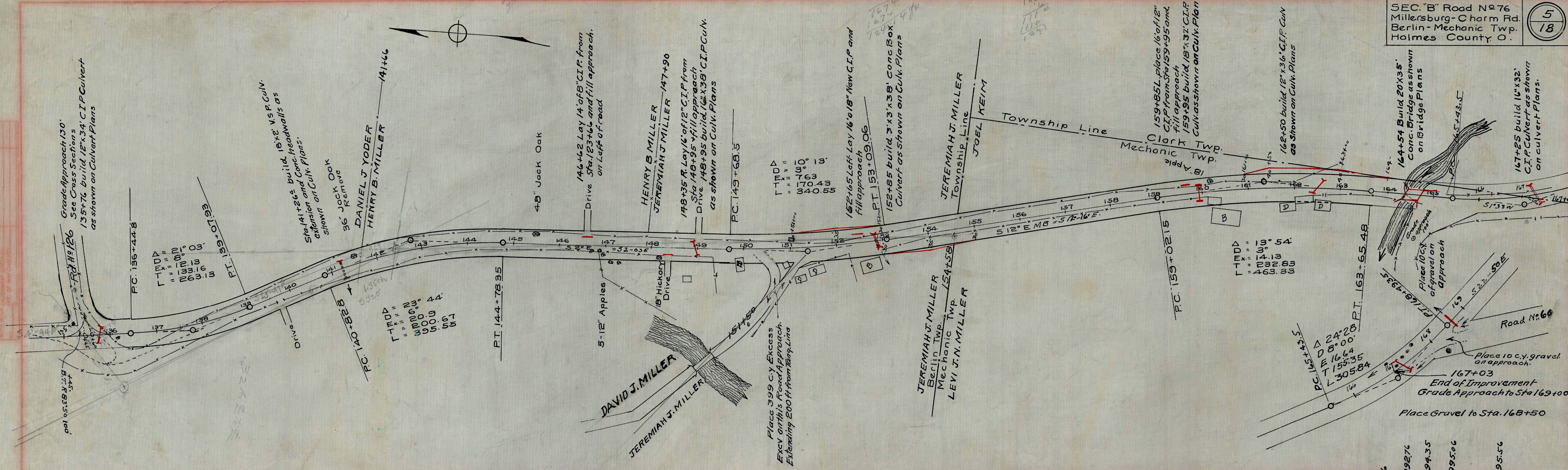


NOTE - RIGHT-OF-WAY IS 60' UNLESS OTHERWISE SHOWN.
PROFILE GRADE is finished roadway in center of road.



Note - Borrow fill shall be cut from old roadway from Sta. 101+00 to Sta. 104+00 with proper slopes and to such depth that same will have drainage to culvert and bridge

Total extra 215 sq. yd. Gravel pavement. 9" loose gravel outside of regular pavement.



Profile Rd. Left Sta 135+45
 Scale 10 Hor. 10 Ver.

EXCV. 437 C.Y.
 F+15% 435 C.Y.
 Waste 2 C.Y.

EXCV. 184 C.Y.
 F+20% 184 C.Y.

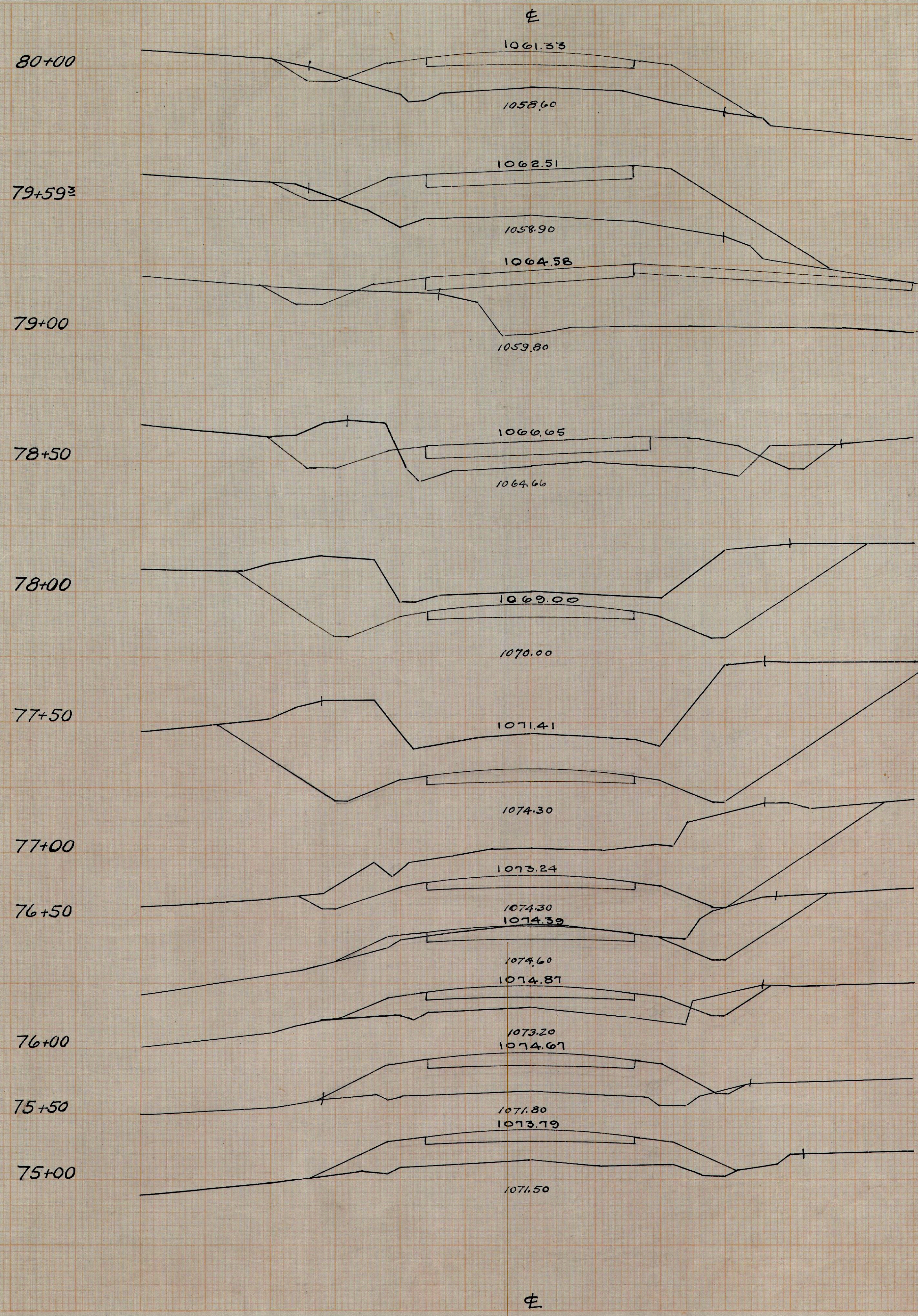
EXCV. 1093 C.Y.
 F+15% 696 C.Y.
 F+15% side Road 399 C.Y.

EXCV. 912 C.Y.
 F+15% 909 C.Y.
 Waste 3 C.Y.

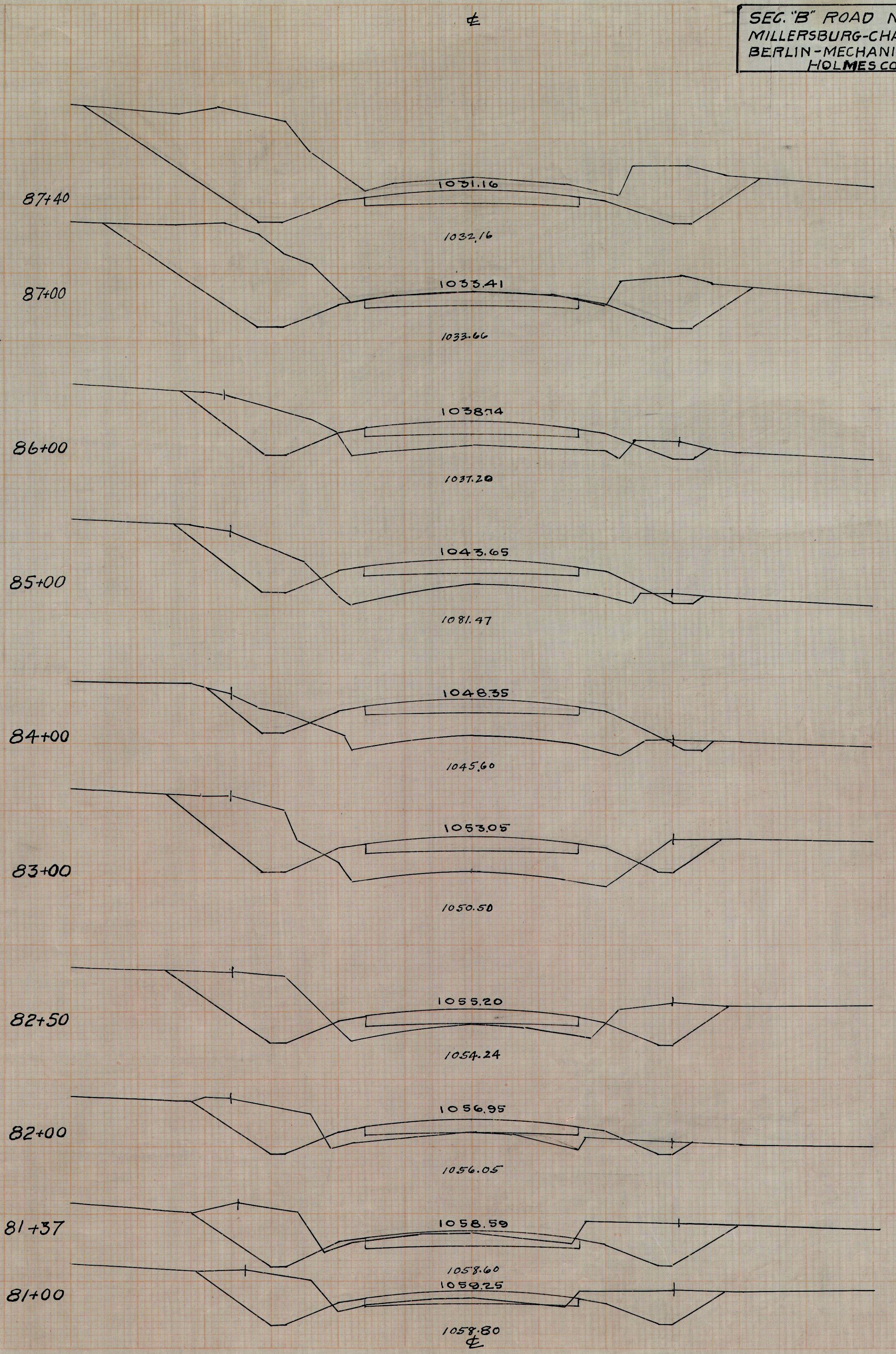
EXCV. 526 C.Y.
 F+15% 520 C.Y.
 Waste 6 C.Y.

EXCV. 996 C.Y.
 F+15% 948 C.Y.
 Rock to creek, 48 C.Y.

End area		Cu. Yds	
cut	Fill	cut	Fill
4	62		
		6	151
Approach		150	
"	"	20	
3	105		
		7	315
4	135		
		30	188
28	35		
		156	46
140	0		
		361	0
250	0		
		361	0
140	0		
		167	8
41	5		
		44	40
7	30		
		7	98
1	58		
		0	118
0	48		
		0	64

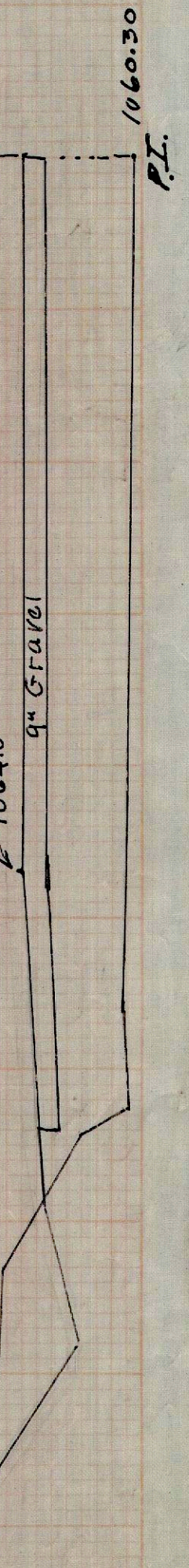


End area		Cu. Yds	
cut	Fill	cut	Fill
146	0		
		189	0
107	2		
		248	53
27	24		
		94	122
24	33		
		61	183
9	53		
		87	205
38	43		
		80	60
48	12		
		67	24
24	10		
		98	11
60	0		
		70	3
43	1		
		87	141

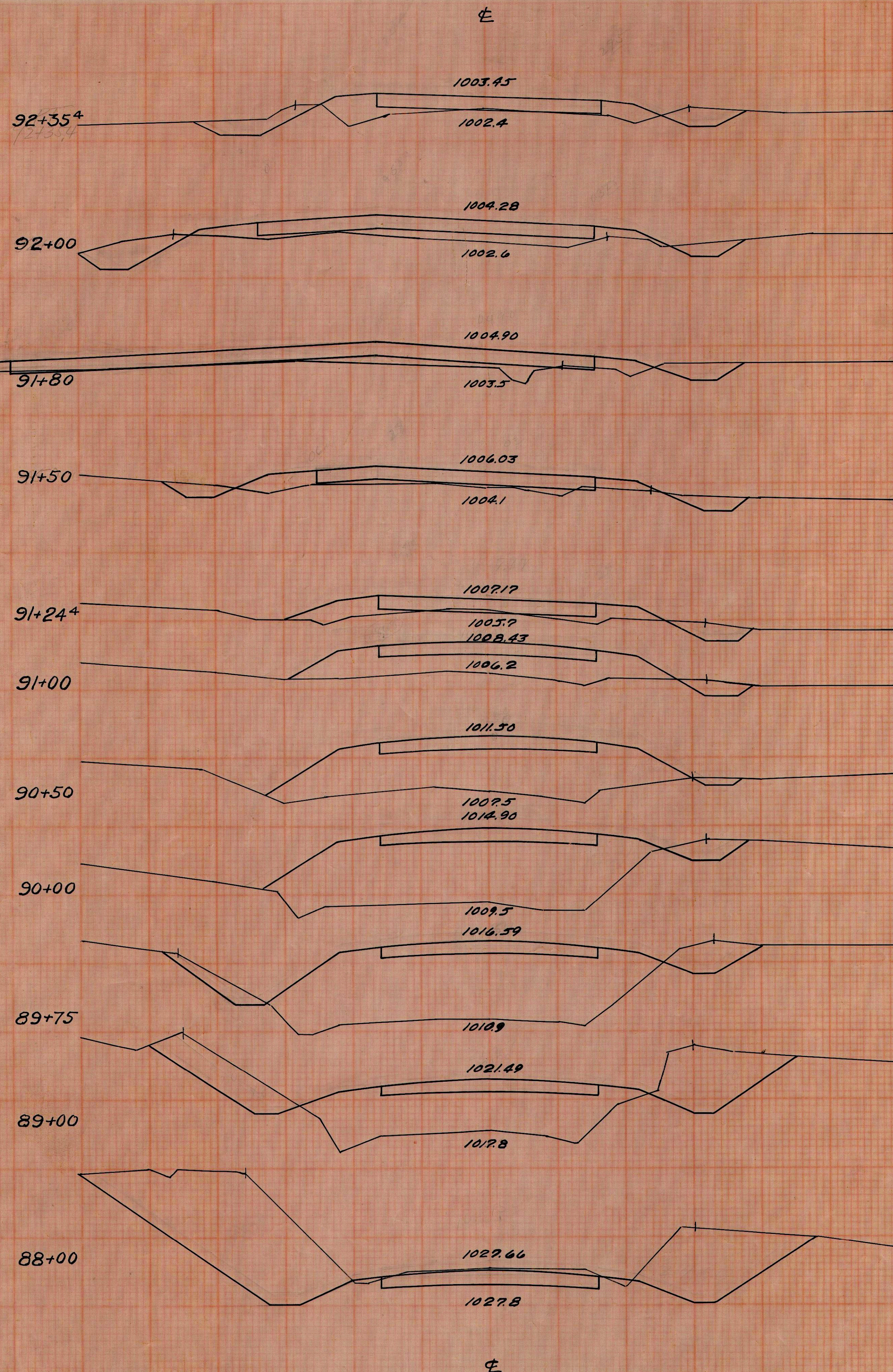


SEC. 'B' ROAD No 76
MILLERSBURG-CHARM Rd.
BERLIN-MECHANIC Tps.
HOLMES COUNTY.

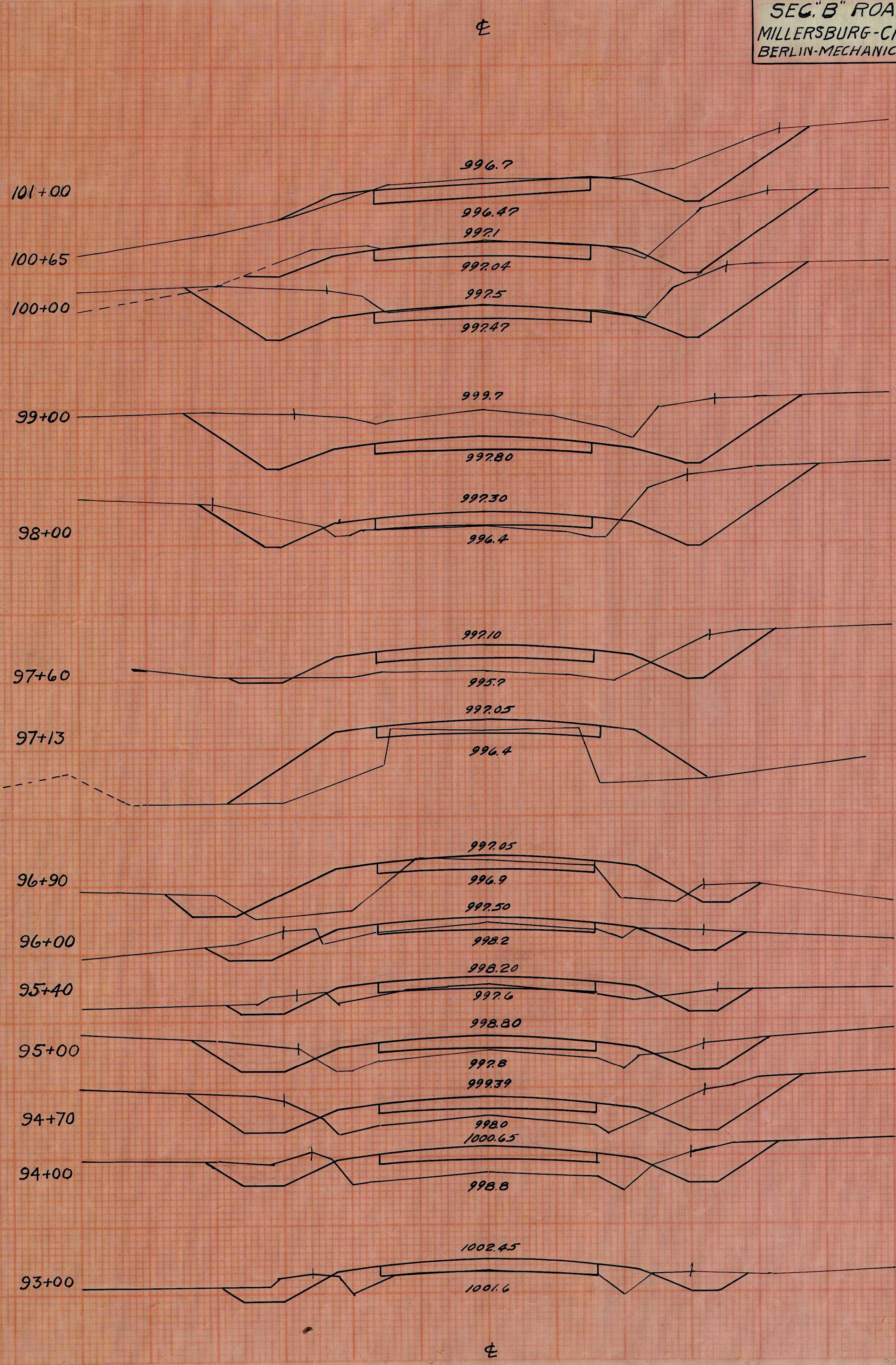
Sec. B.B. Right turn of road Sta 79+00



End Area		Cu. Yd.	
Cut	Fill	Cut	Fill
10	13		
		15	32
14	19		
		8	13
5	12		
		4	21
4	15		
		4	18
4	15		
		4	40
3	55		
		6	154
2	84		
		6	227
5	18		
		9	133
13	125		
		87	326
50	71		
		385	165
148	3		
		326	5

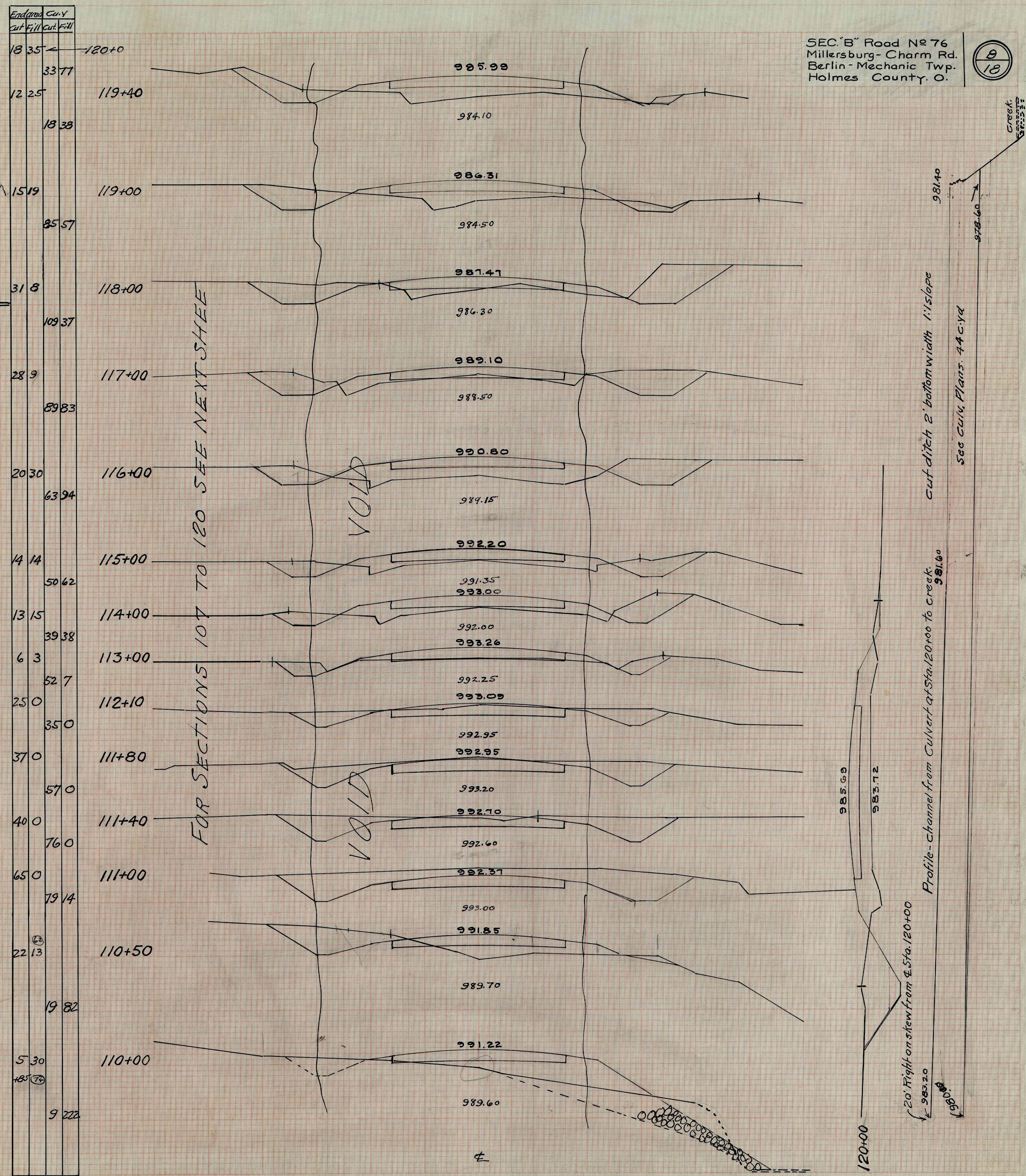
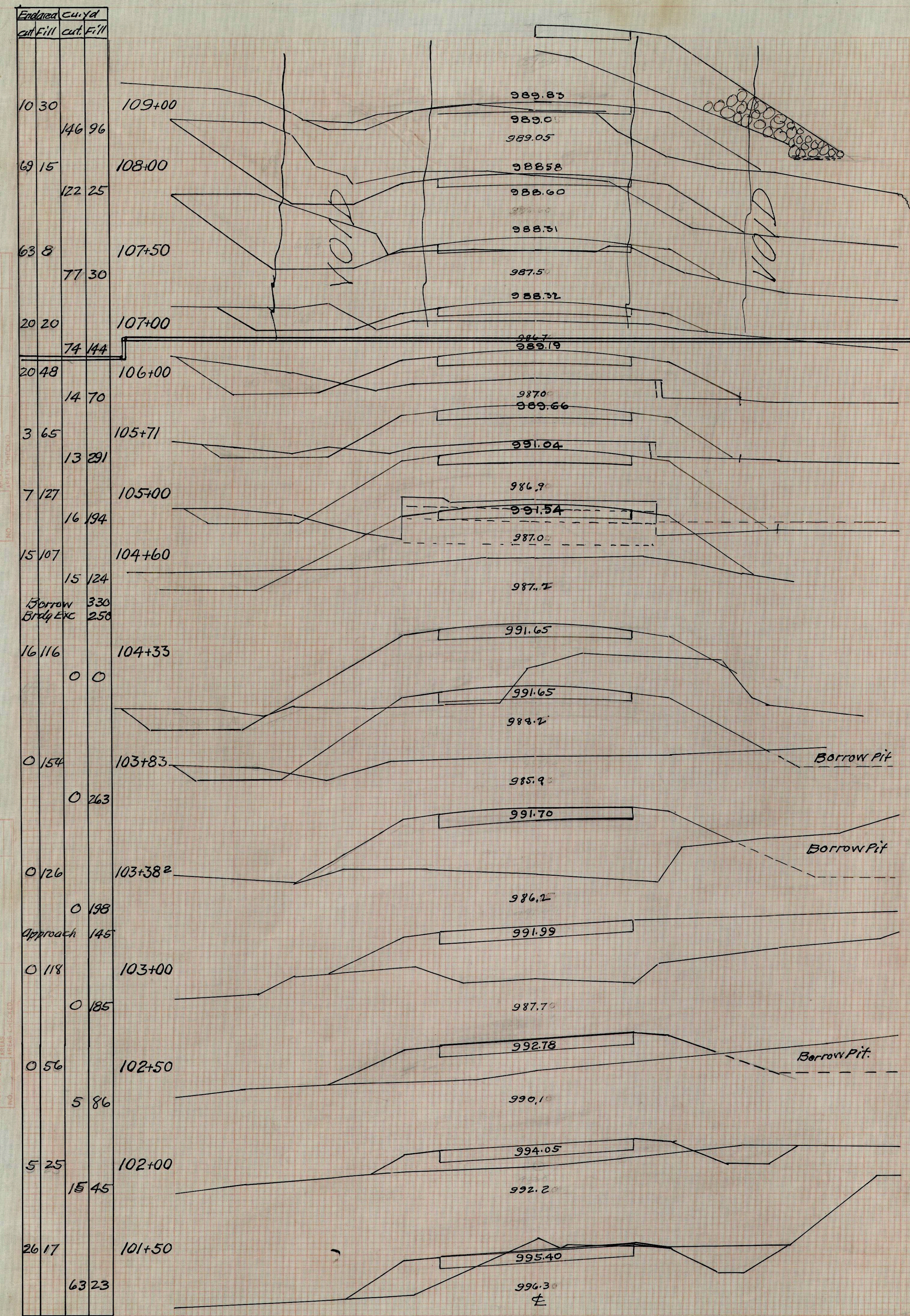


End Area		Cu. Yd.	
Cut	Fill	Cut	Fill
42	4	69	5
64	0	163	0
72	0		
		339	0
111	0		
		297	9
55	4		
		52	29
15	30		
		9	167
0	52		
		0	0
8	32		
		48	70
21	5		
		37	10
13	8		
		24	22
21	18		
		32	25
36	21		
		82	77
27	30		
		73	83
12	9		
		28	30



SEC. "B" ROAD No 76
 MILLERSBURG-CHARM Rd.
 BERLIN-MECHANIC Tp. HOLMES Co.

7/18



FOR SECTIONS 107 TO 120 SEE NEXT SHEET

Cut ditch 2' bottom width 1:1 slope

See CUV. Plans. 44 c. yd

Profile - Channel from Culvert at Sta. 120+00 to creek

20' Right on skew from 2.5 Sta. 120+00

Creek

FINAL SURVEY PLOTTED FROM ORIGINAL SURVEY NOTES & FIELD BOOKS

ORIGINAL SURVEY PLOTTED FROM ORIGINAL SURVEY NOTES & FIELD BOOKS

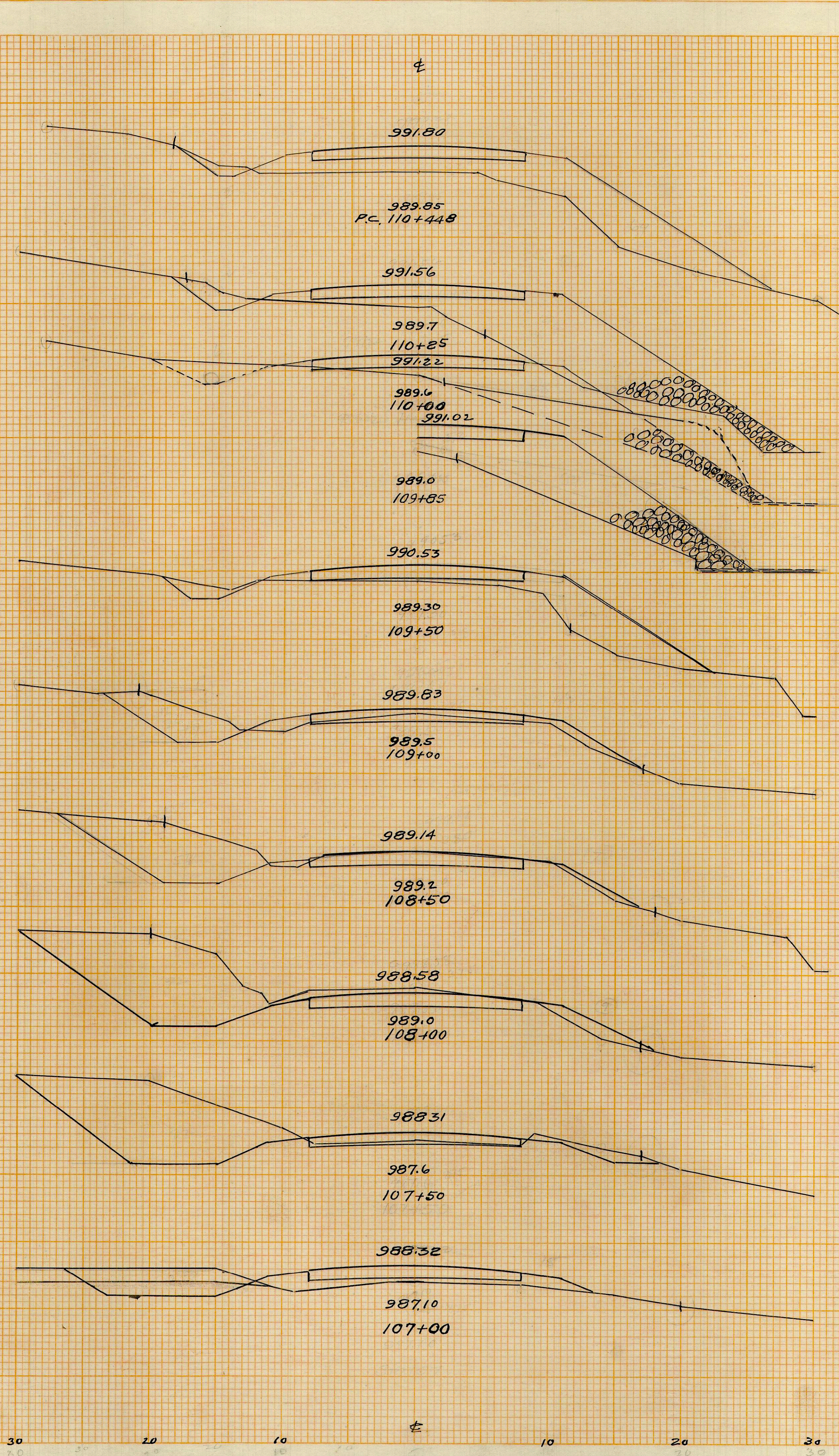
SEC. B Road No 76
 Millersburg - Charm Rd
 Berlin - Mechanic Twp.
 Holmes County O

9
18

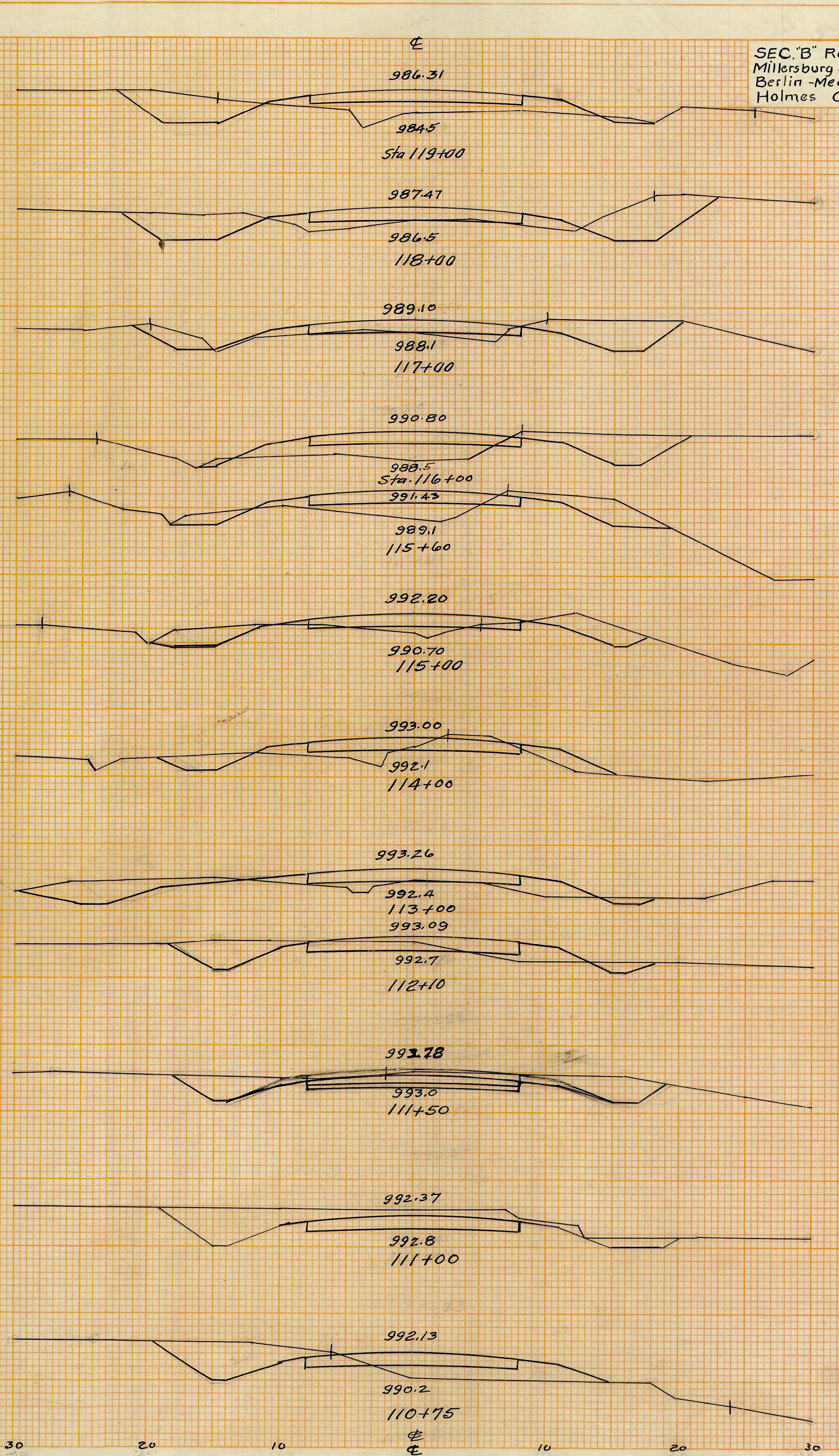
FINAL SURVEY SURVEYED, PLOTTED, AND CHECKED BY DATE

ORIGINAL SURVEY SURVEYED, PLOTTED, AND CHECKED BY DATE

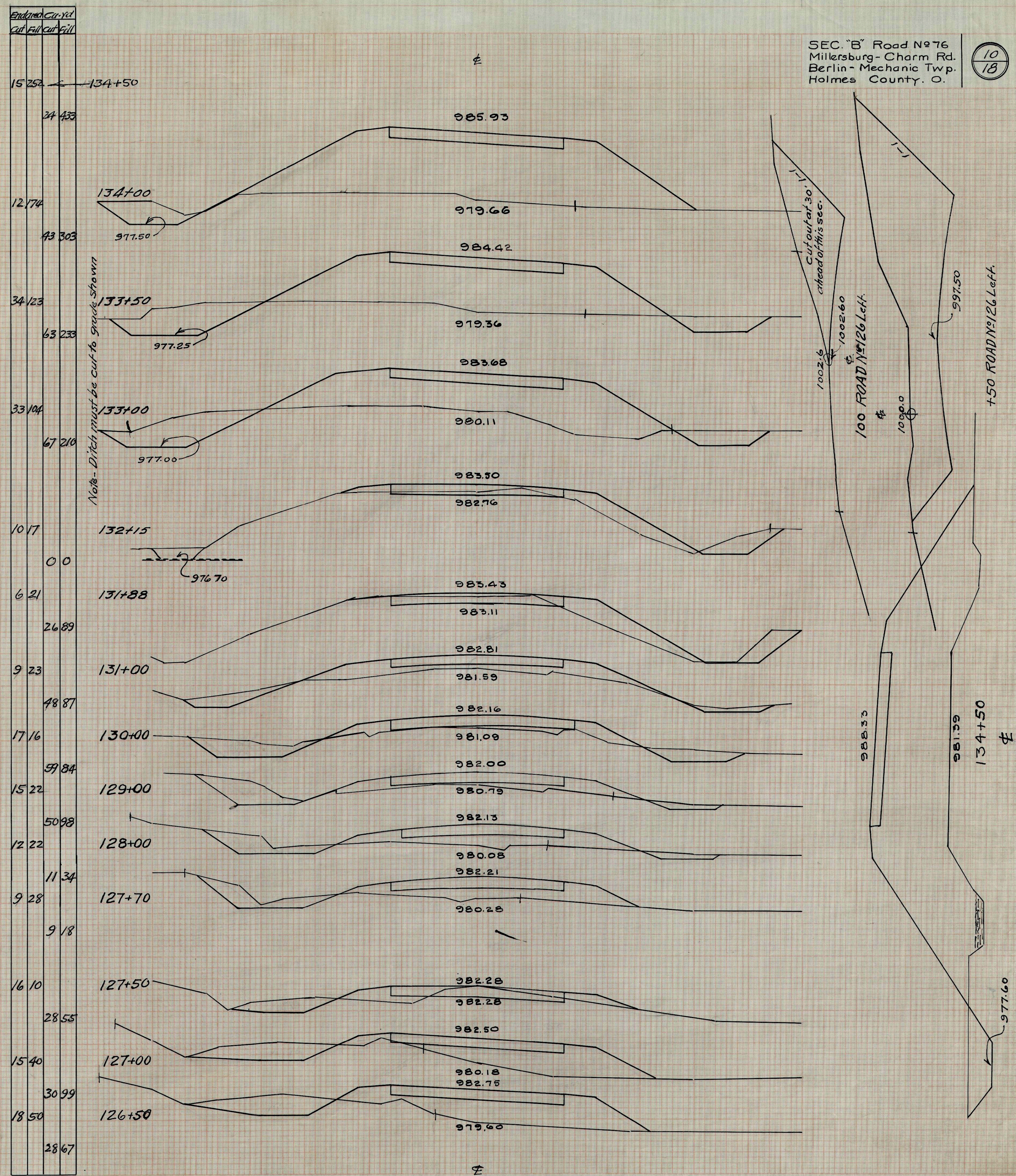
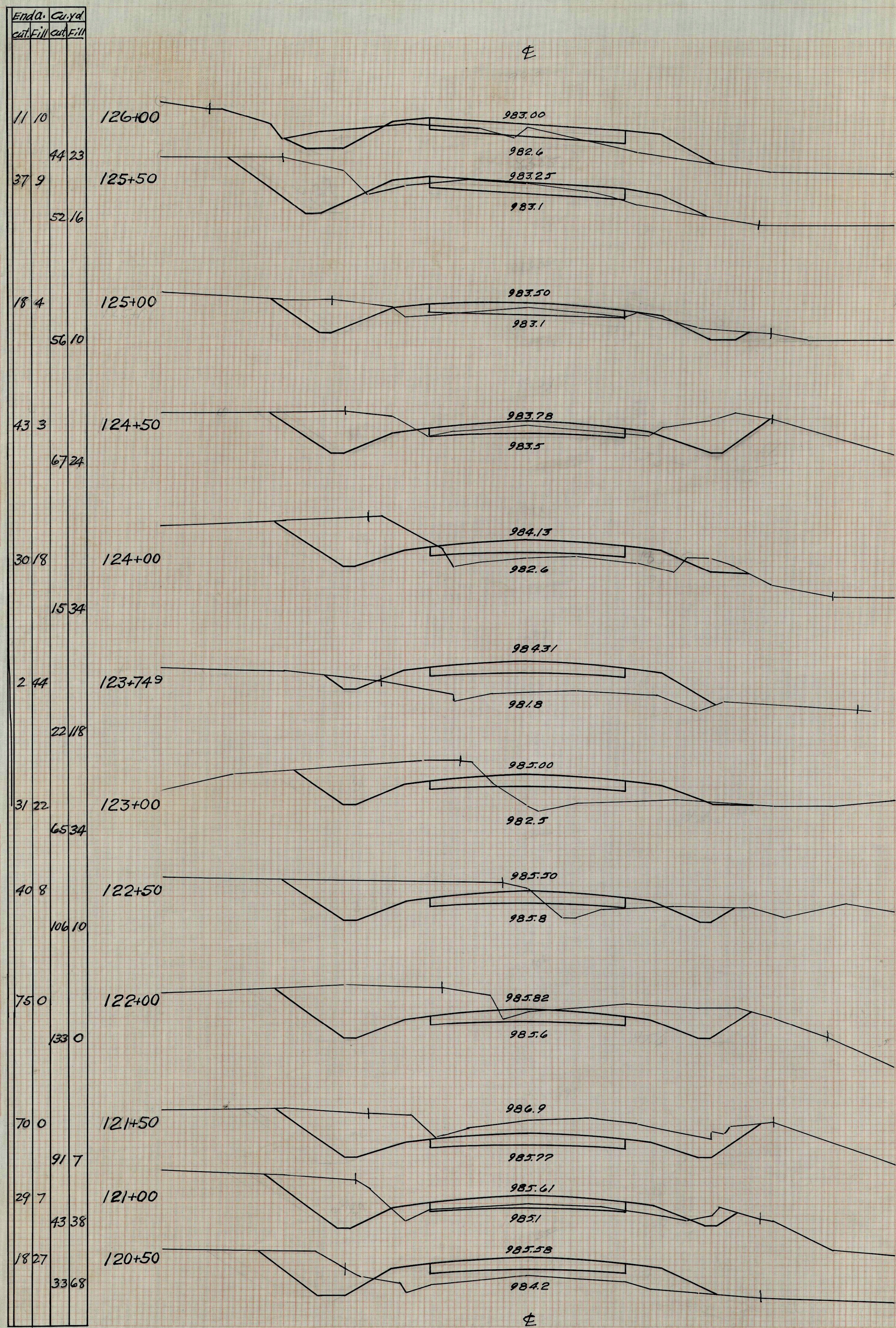
End Area	cu. yd.	End Area	cu. yd.
cut	Fill	cut	Fill
3 69		16 21	
4 73		91 77	
	20%	33 15	
4 96		102 49	
4 69		22 8	
6 28		74 64	
2 39		18 22	
0 86		26 30	
2 95		18 13	
4 40		37 23	
26 56		16 5	
24 11		54 43	
70 20		13 15	
52 7		26 60	
133 18		15%	
92 9		9 13	
161 12		22 37	
82 0		20 6	
98 20		57 10	
25 18		32 0	
83 140		76 0	
	15%	50 0	
		33 11	
		24 18	
		15 58	
		20%	



End Area	cu. yd.	End Area	cu. yd.
cut	Fill	cut	Fill
16 21		16 5	
91 77		54 43	
33 15		13 15	
102 49		26 60	
22 8		15%	
74 64		9 13	
18 22		22 37	
26 30		20 6	
18 13		57 10	
37 23		32 0	
16 5		76 0	
54 43		50 0	
13 15		33 11	
26 60		24 18	
15%		15 58	
9 13		20%	
22 37			
20 6			
57 10			
32 0			
76 0			
50 0			
33 11			
24 18			
15 58			
20%			



End Area	cu. yd.	End Area	cu. yd.
cut	Fill	cut	Fill
16 21		16 5	
91 77		54 43	
33 15		13 15	
102 49		26 60	
22 8		15%	
74 64		9 13	
18 22		22 37	
26 30		20 6	
18 13		57 10	
37 23		32 0	
16 5		76 0	
54 43		50 0	
13 15		33 11	
26 60		24 18	
15%		15 58	
9 13		20%	
22 37			
20 6			
57 10			
32 0			
76 0			
50 0			
33 11			
24 18			
15 58			
20%			

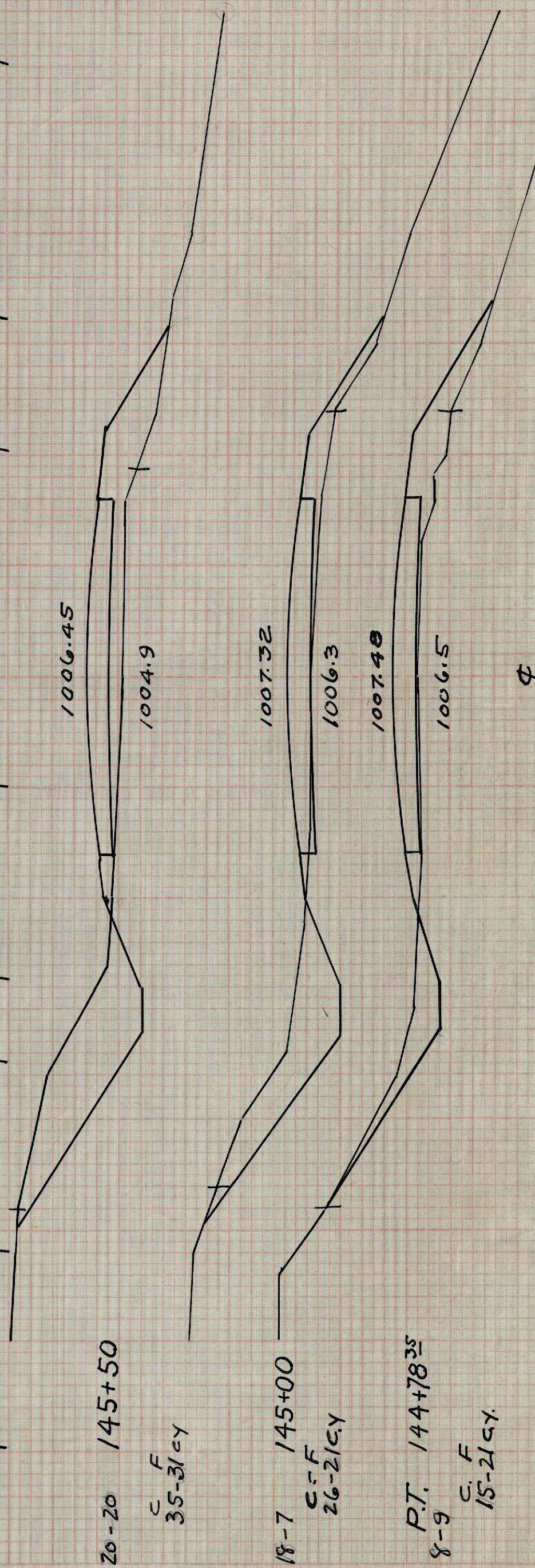
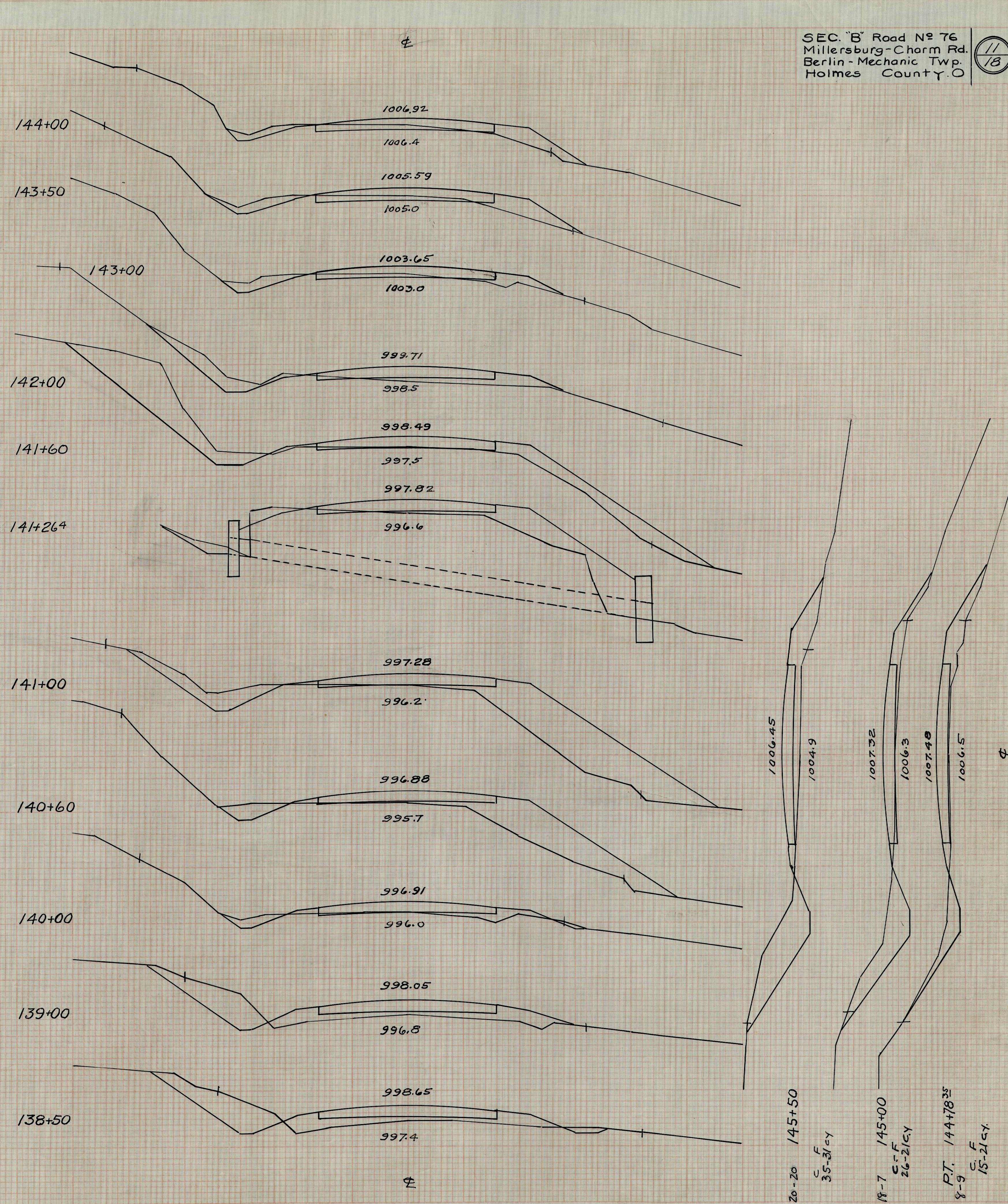
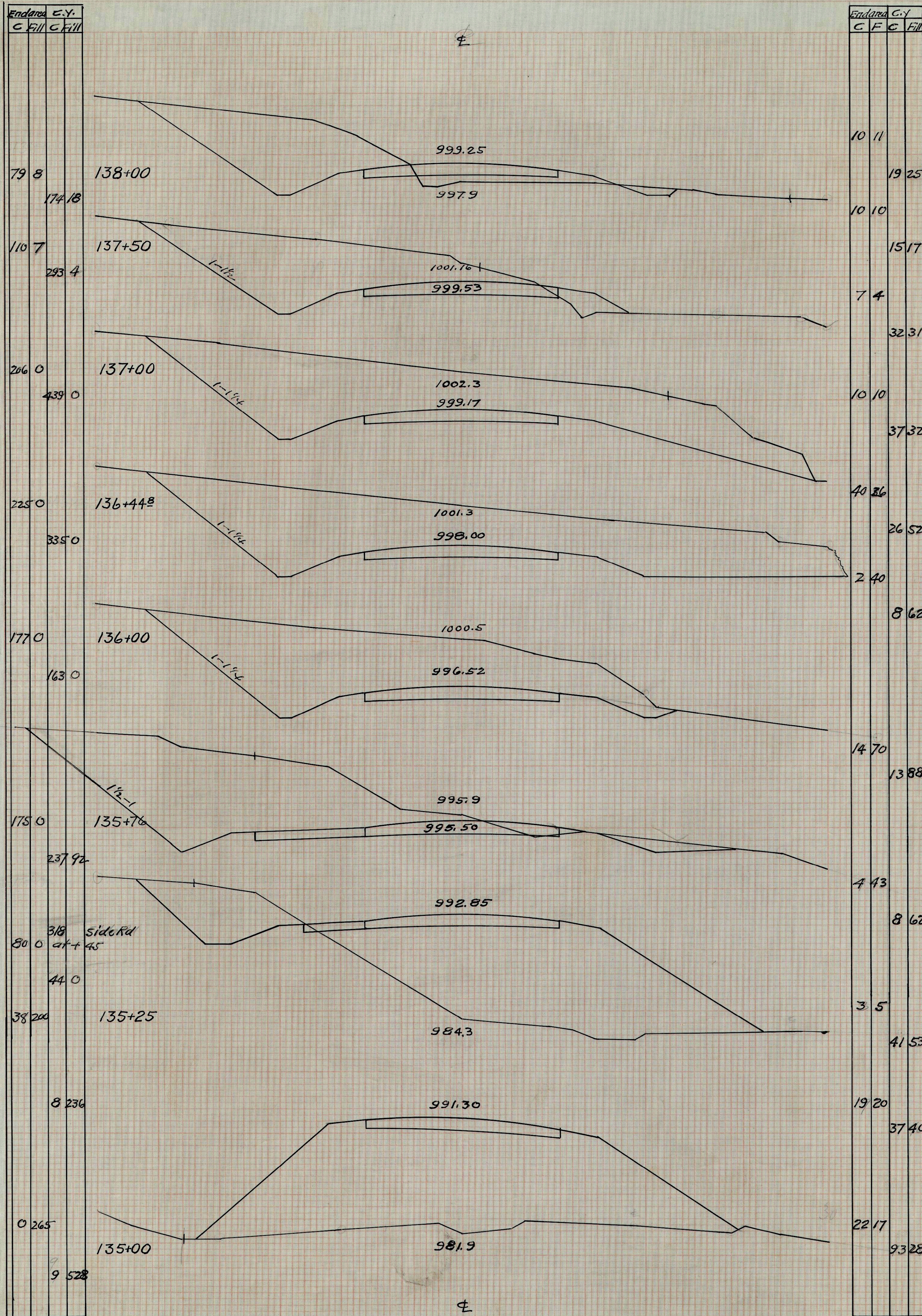


DATE
BY
FINAL SURVEY
NOTE BOOK
CHECKED

DATE
BY
ORIGINAL SURVEY
NOTE BOOK
CHECKED

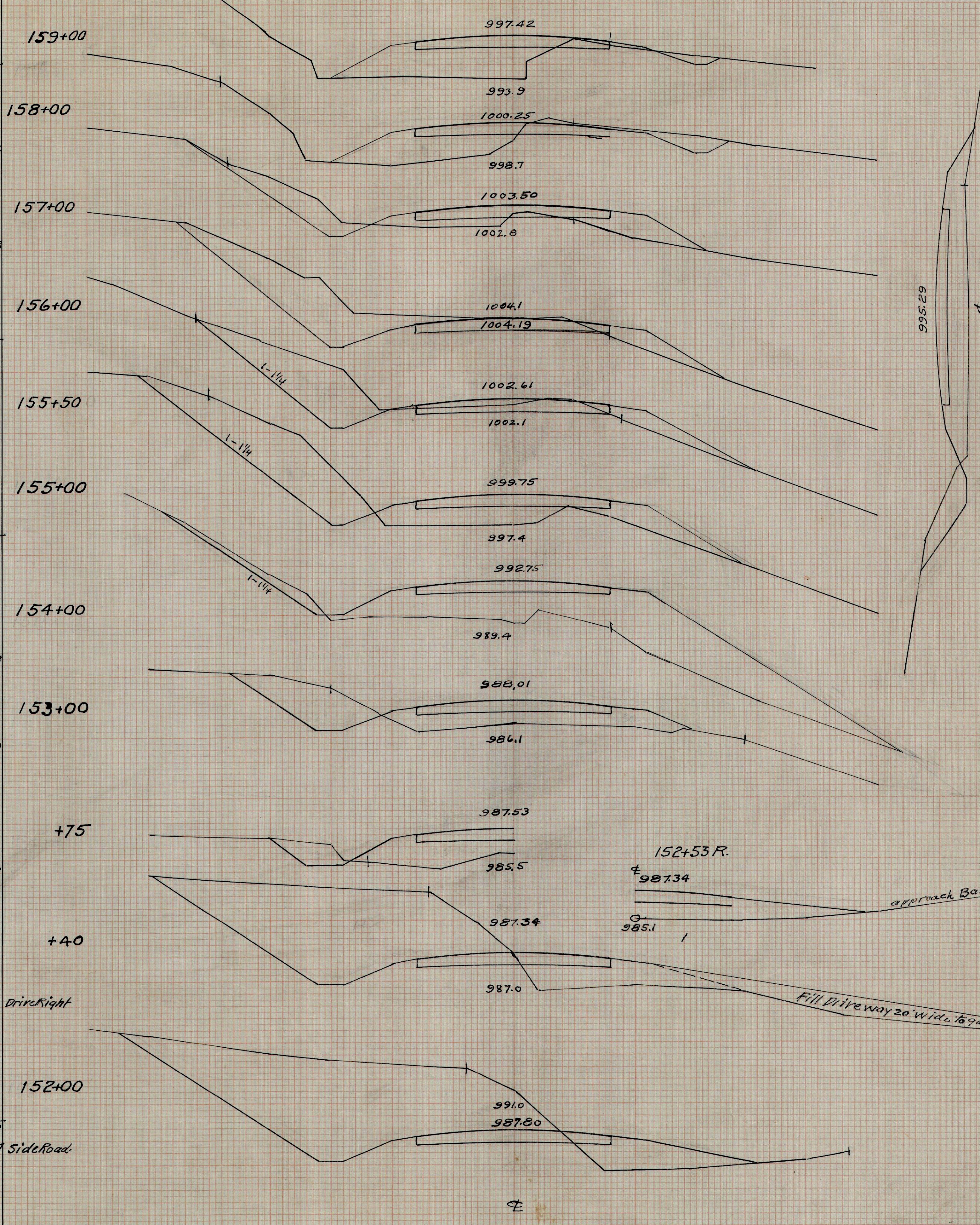
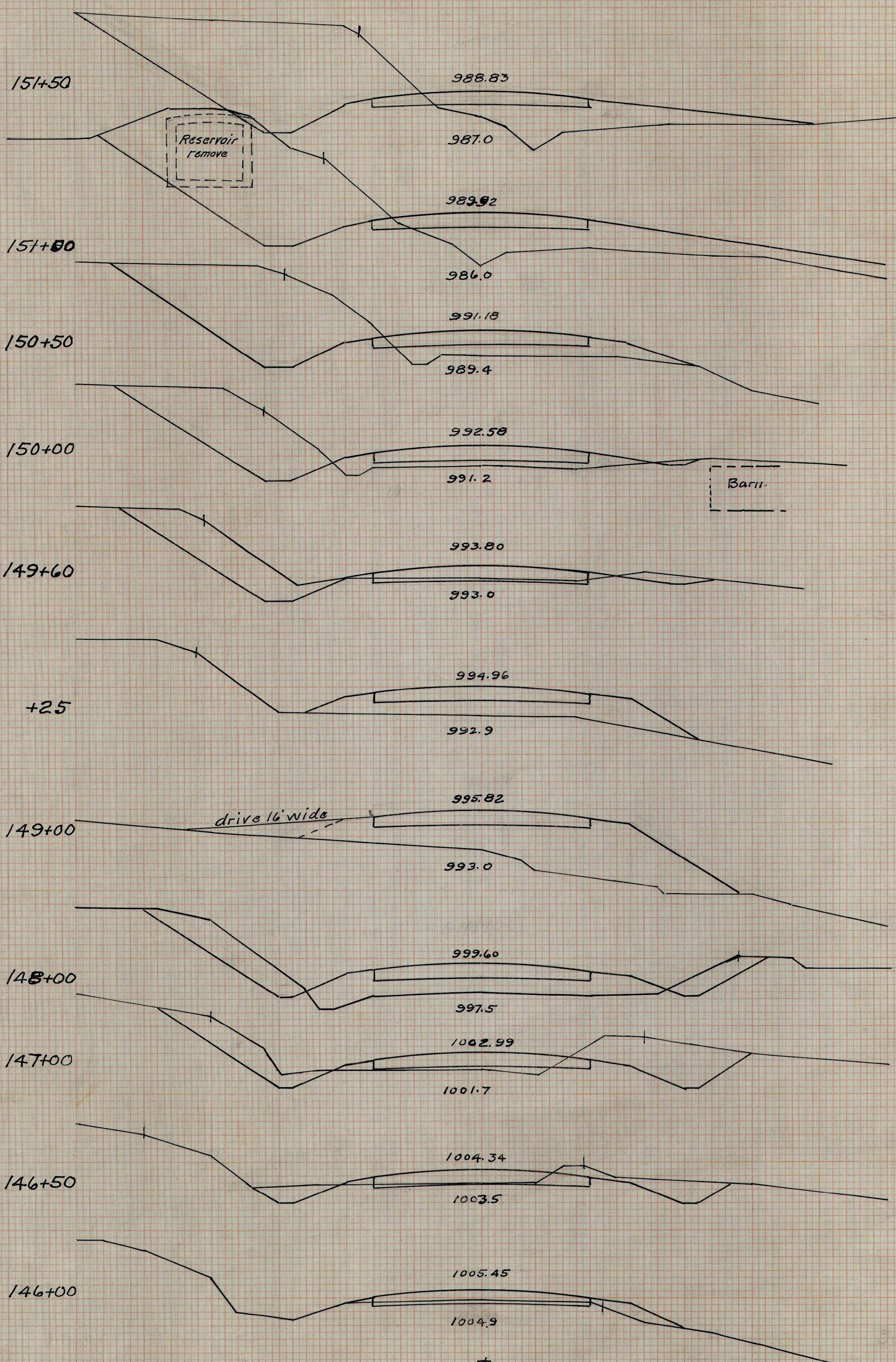
FINAL SURVEY NOTE BOOK (MPLS. CHECKED)

ORIGINAL SURVEY NOTE BOOK (MPLS. CHECKED)



Enclosure		Cu. Yds.	
cut	Fill	cut	Fill
11836			
2380			
11337			
18060			
8119			
12035			
5013			
6313			
352			
2228			
037			
062			
079			
37250			
2838			
12694			
406			
549			
191			
207			
45			
2229			

Enclosure		Cu. Yds.	
cut	Fill	cut	Fill
1143			
22128			
535			
32132			
1227			
59102			
2021			
15643			
6413			
10425			
4910			
10451			
6438			
133328			
8115			
61308			
2530			
1530			
723			
9838			
14326			
24139			
20			
18325			
27865			
397			

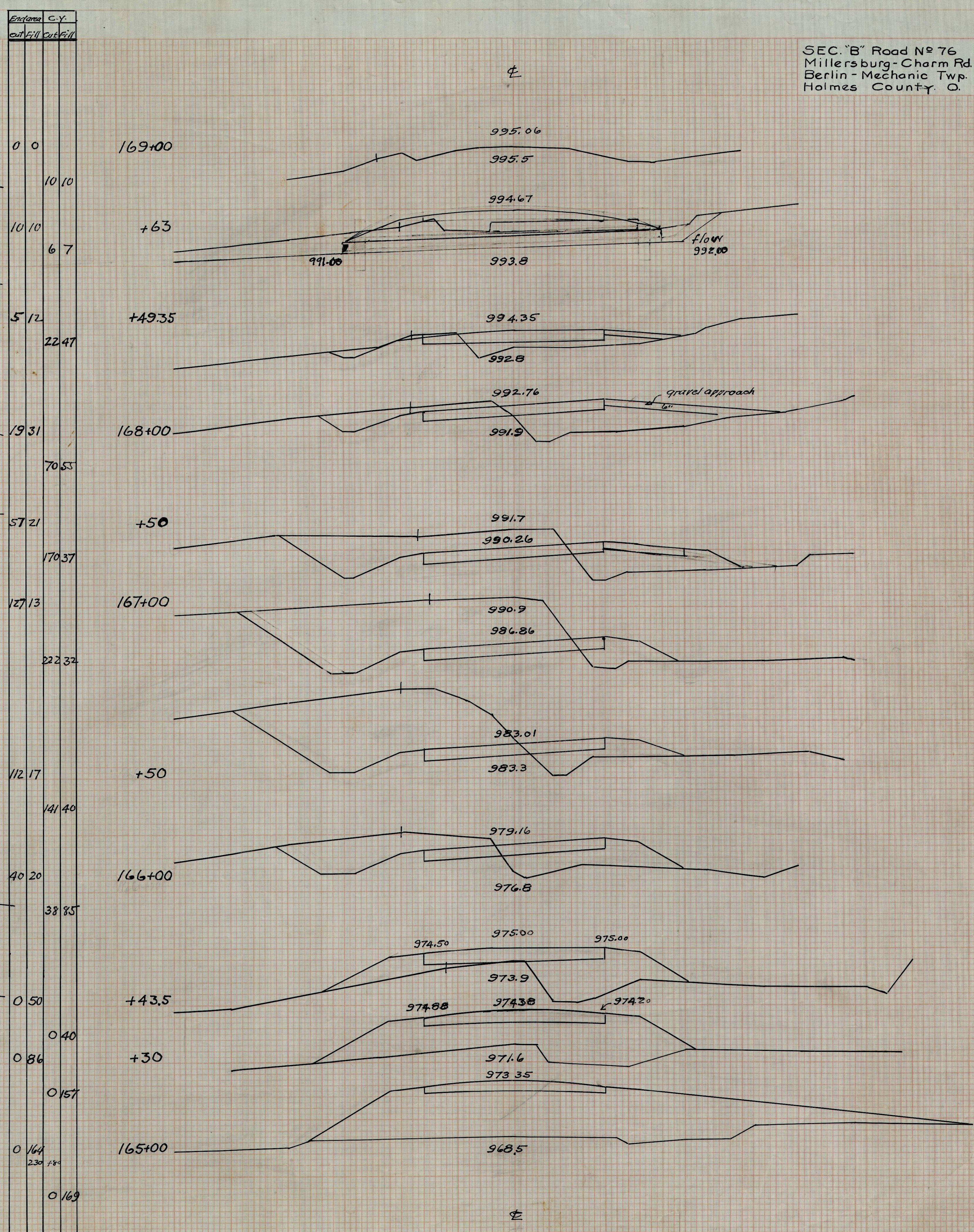
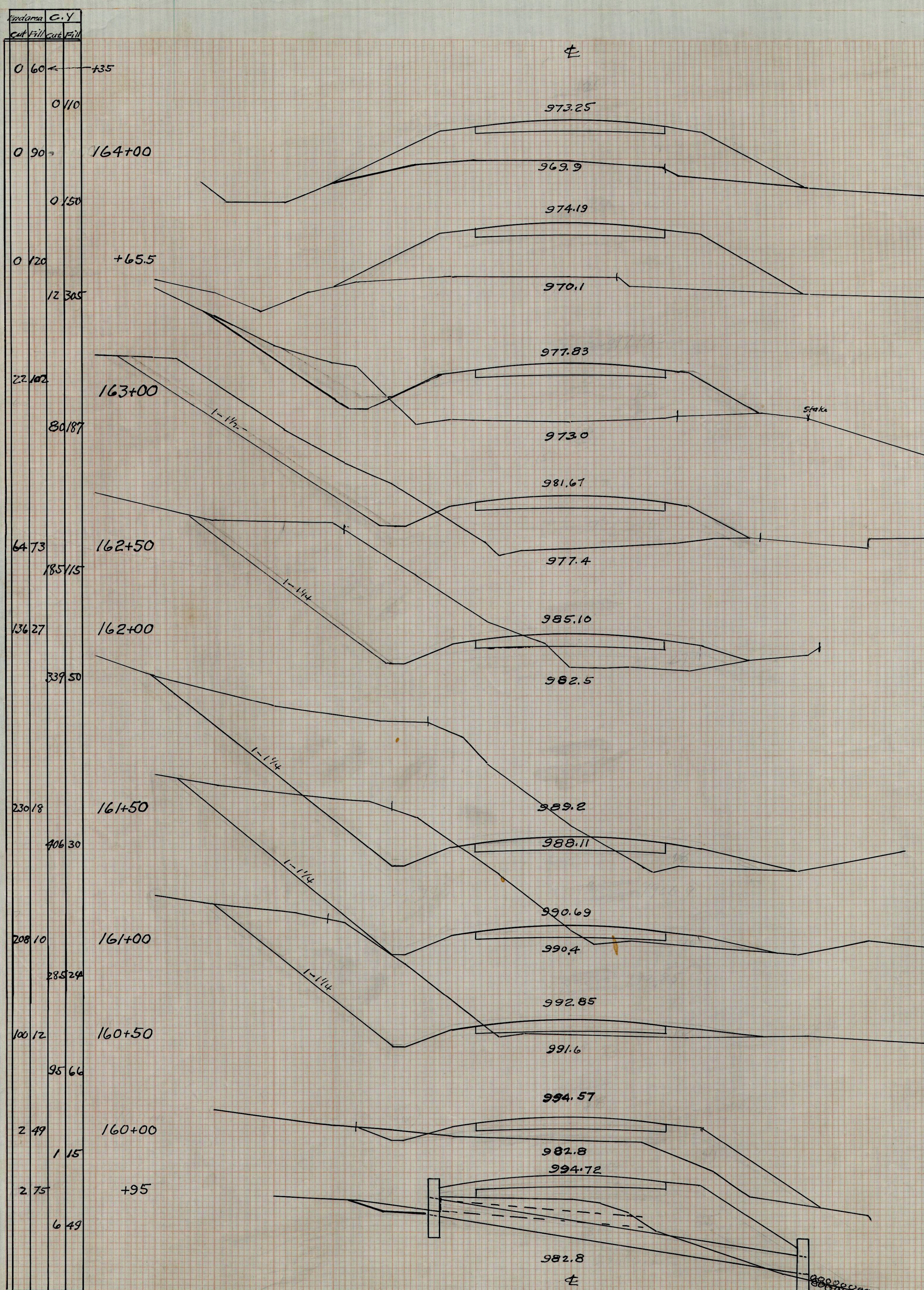


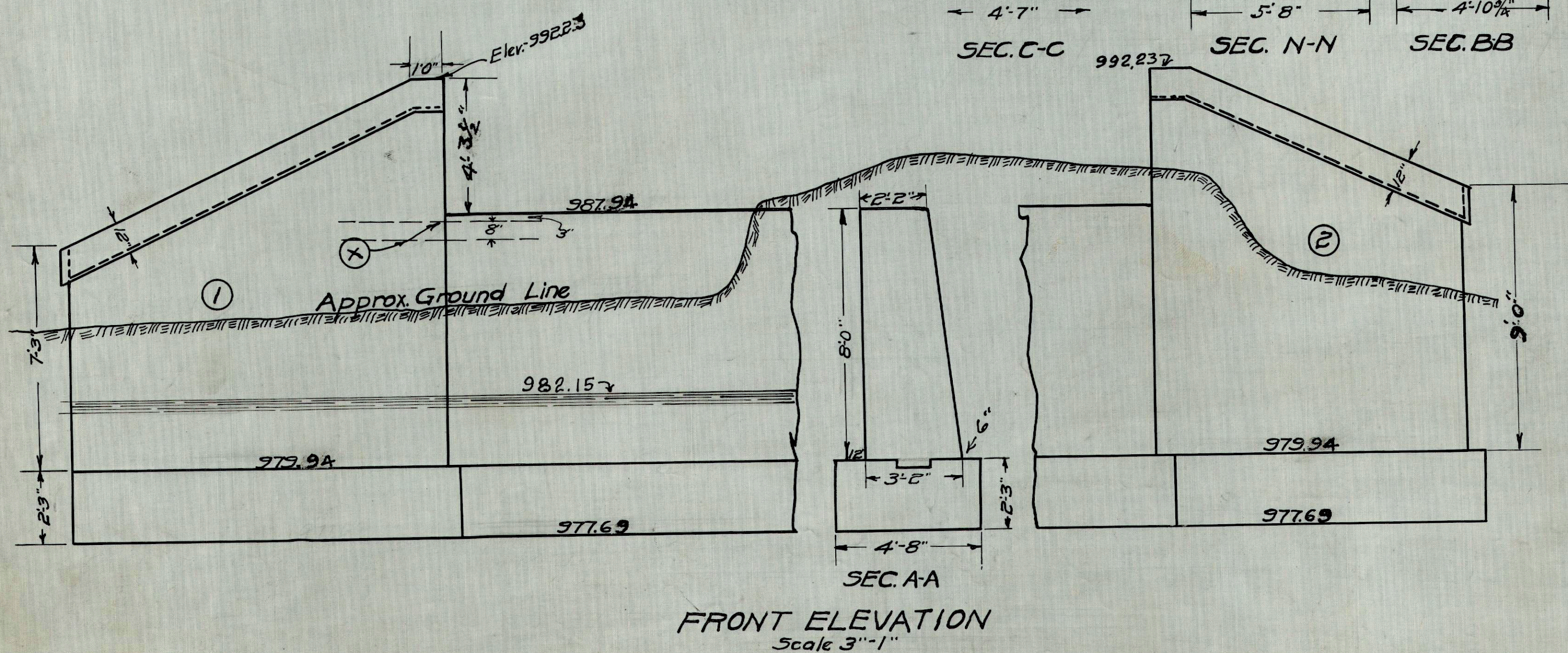
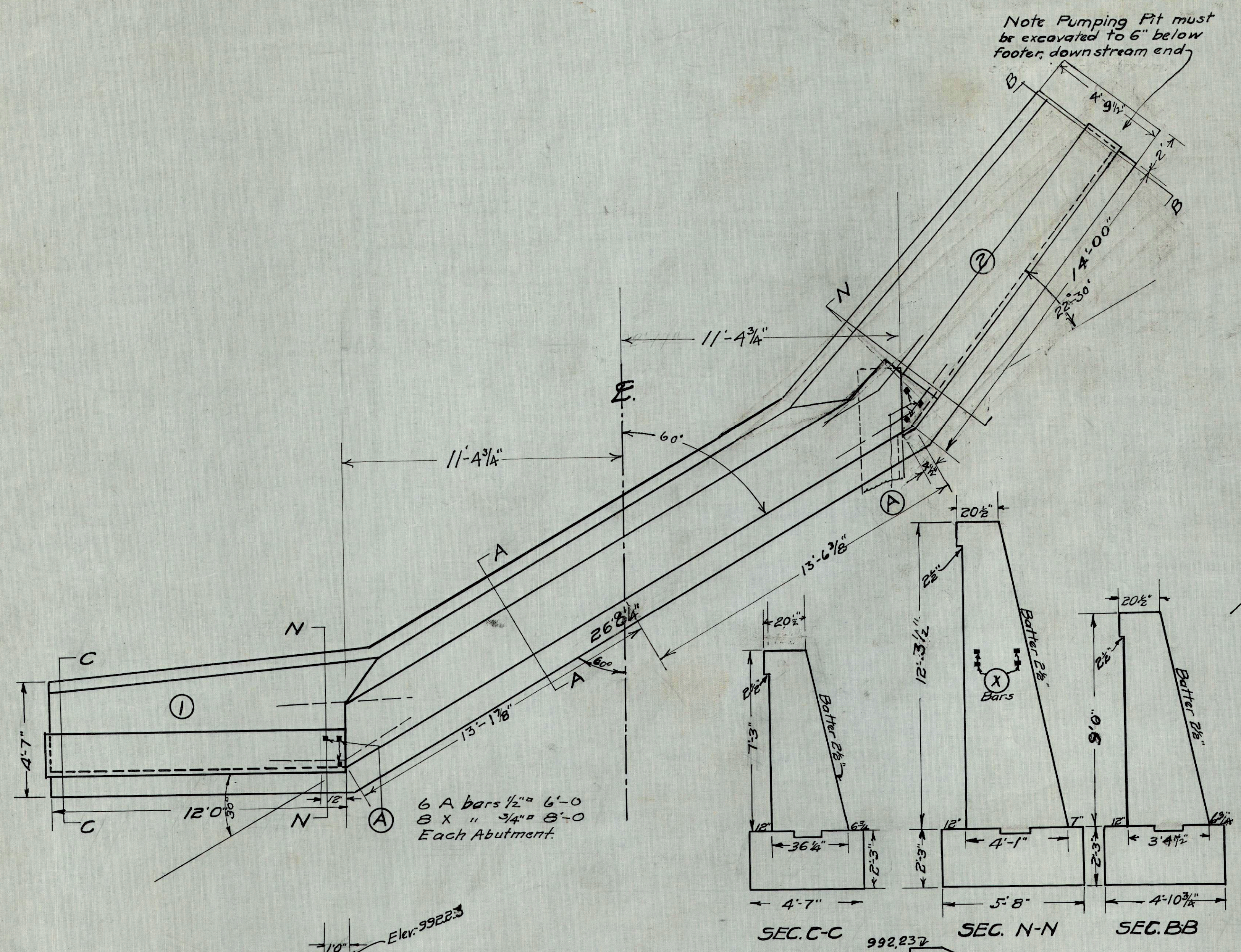
FINAL SURVEY NOTE BOOK NO. 11836

ORIGINAL SURVEY NOTE BOOK NO. 11836

DATE
 BY
 CHECKED
 FINAL SURVEY
 SCHEDULED
 BOUGHT
 TEMPLATE
 NOTE BOOK
 AREA
 CHECKED
 NO.

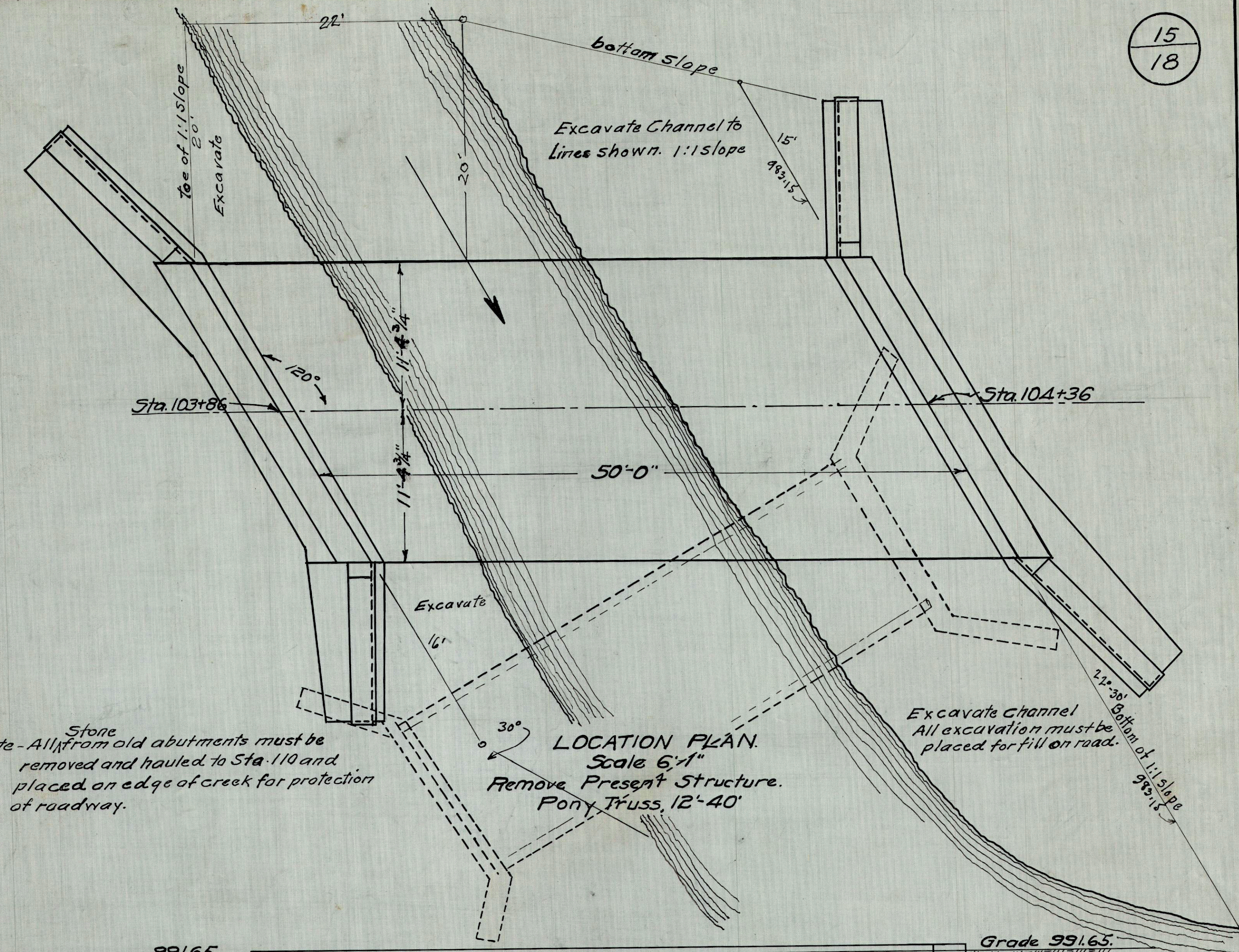
DATE
 BY
 CHECKED
 ORIGINAL SURVEY
 SCHEDULED
 BOUGHT
 TEMPLATE
 NOTE BOOK
 AREA
 CHECKED
 NO.





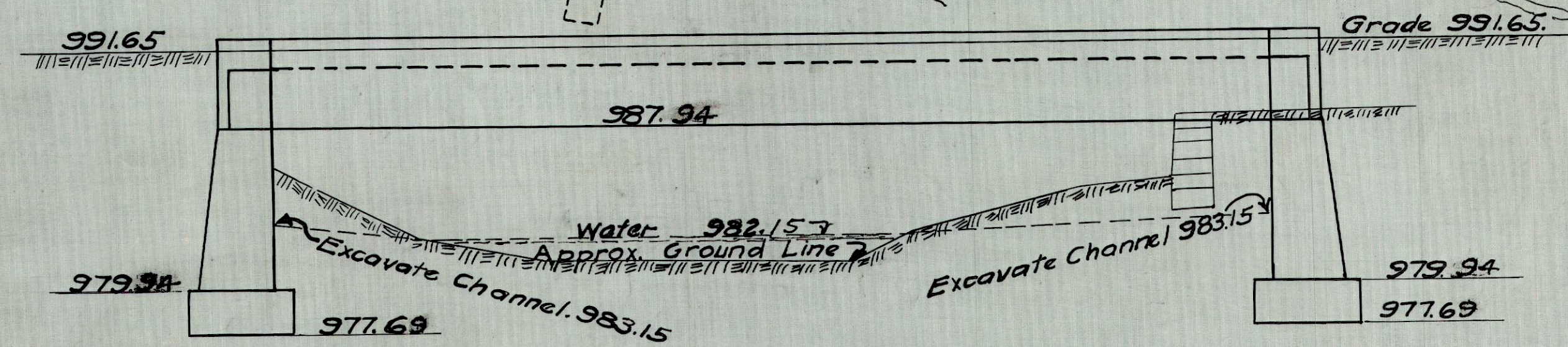
FRONT ELEVATION
Scale 3"=1"

Note Pumping Pit must be excavated to 6" below footer, downstream end



Note - All stone from old abutments must be removed and hauled to Sta. 110 and placed on edge of creek for protection of roadway.

LOCATION PLAN
Scale 6"=1"
Remove Present Structure.
Pony Truss, 12'-40"



Note: Abutments are symmetrical. On North Abutment place Wing No. 2 on left; Wing No. 1 on right. All workmanship and material must conform to State Standard Specifications.

Conc. aggregates required Sec 2.1 + 3-1 of specifications

QUANTITIES

Excavation - Dry	104 cu. yd.
Excavation - Wet	115 cu. yd.
Concrete 1-3-5 mix	41.6 " "
Concrete 1-2 1/2-4 mix	94.6 " "
Steel	306 #
Removal Present Structure	
Channel Excavation	147 cu. yd.

PLAN OF SUB-STRUCTURE CONCRETE BEAM BRIDGE MILLERSBURG-CHARM ROAD No. 76 Station 104+11. SEC. "B"

