

63

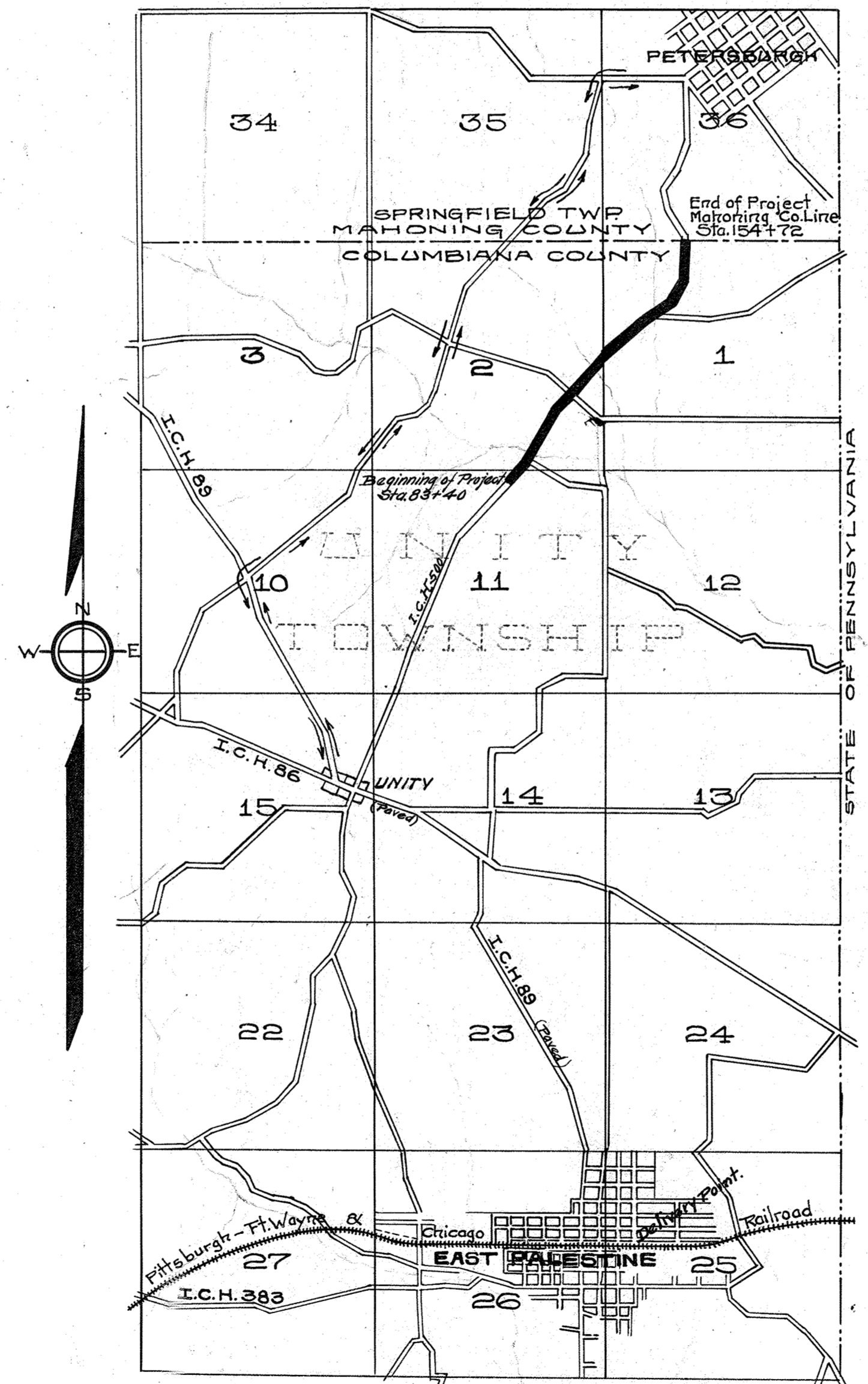
STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
BUREAU OF CONSTRUCTION
PETERSBURGH - UNITY ROAD
I.C.H. No. 500 SEC. "B" PET. No. 4264
COLUMBIANA COUNTY
UNITY TOWNSHIP NOV. 1923

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CONVENTIONAL SIGNS

County Line ————
Township Line ————
Section Line ← West ———— East →
Property Line ————
Center Line ————
Fence Line — * * * * *
Telephone Poles • • • • •



The Standard Specifications of the State of Ohio Division of Highways in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as shown on the plans and estimates.

Approved Date 2-9 1924 Charles C. Wick Resident Engineer.
Approved Date 3/13 1924 W.C. Sawcett Division Engineer.
Approved Date 3/19 1924 G.F. Schaefer State Highway Engineer.
Approved Date 3/19 1924 La Boulay Director of Highways & Public Works.

CONSTRUCTION BUREAU
NOV 15 1924
GROUND PHOTOLAB

We the Commissioners of Columbiana 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.

John J. ...
Patrick ...
Conrad Berg

Date, 2-9-1924 County Commissioners.

LOCATION PLAN
SCALE OF MILES

0 1/4 1/2 3/4 1 2

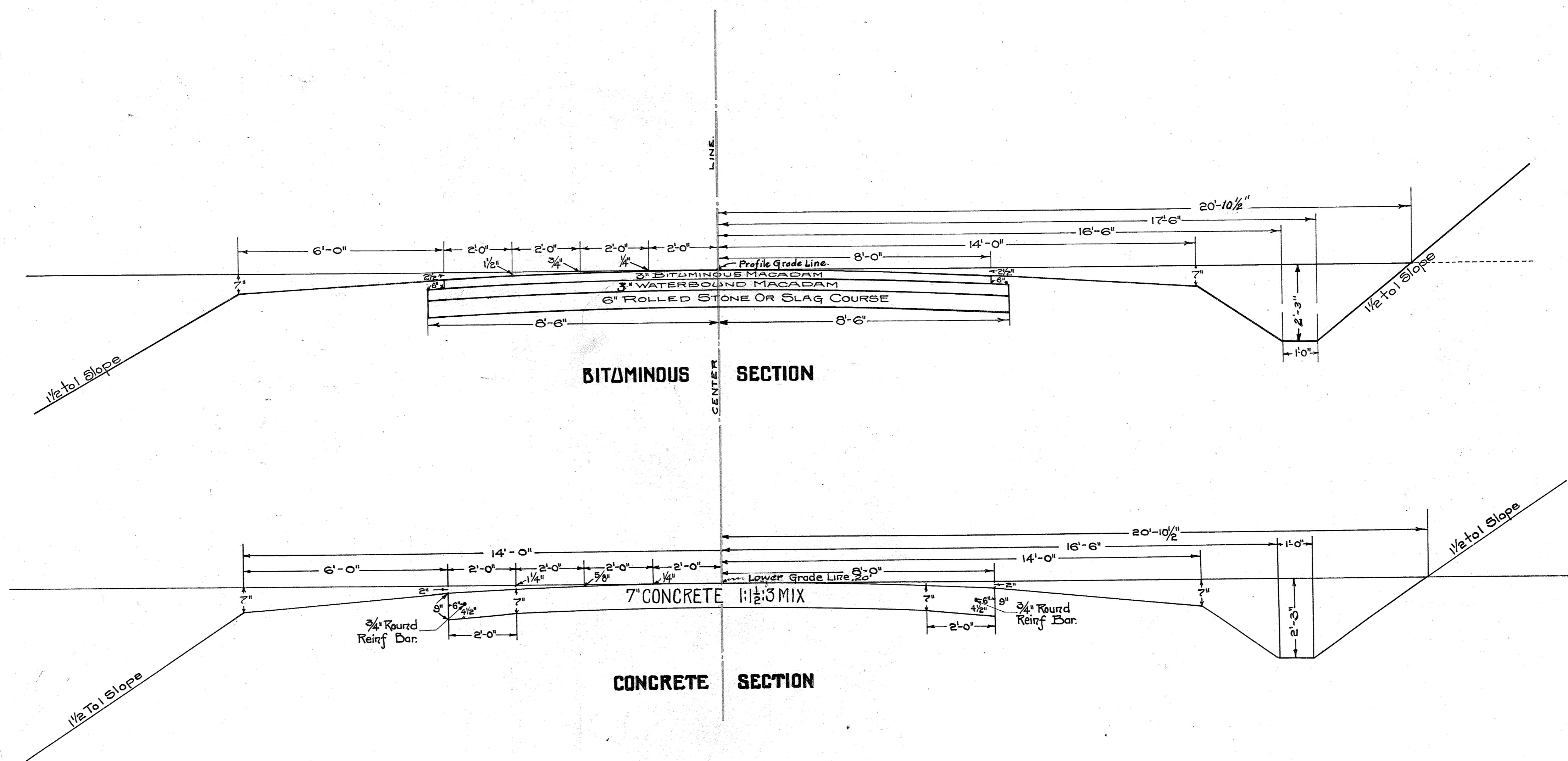
Plan = 1" = 100'
Profile (Vertical) 1" = 10'
Profile (Horizontal) 1" = 100'
Cross Sections 1" = 10'

Portion to be improved
Detours shown thus

50
763
Columbiana - 500 - B
1924

TYPICAL SECTIONS

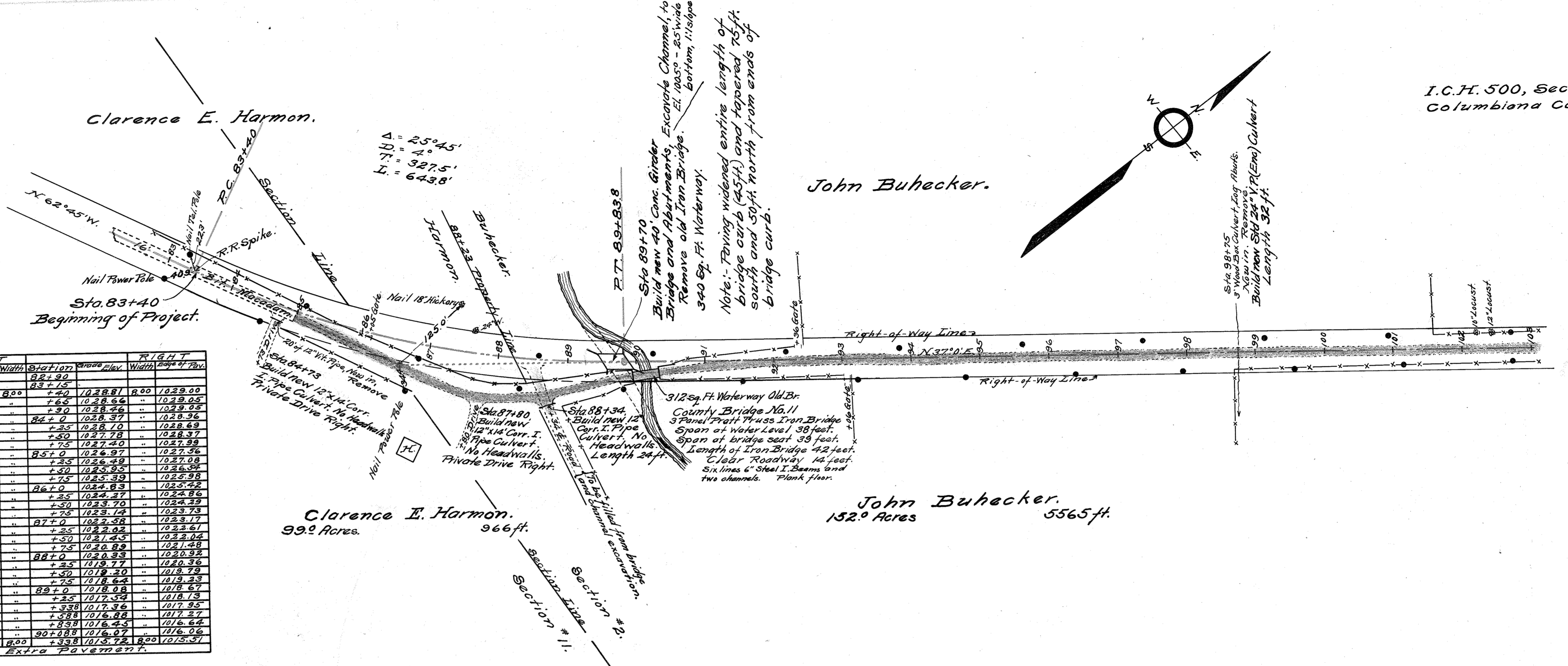
SCALE 1 IN = 2 FT.



DATE: 1-1923
E. L. Phelps
NO. 123

DATE: 1-1923
E. L. Phelps
NO. 123

LEFT	STATION	GRADE	RIGHT
1028.60	825	1028.87	1029.00
1028.45	+50	1028.66	1028.95
1028.25	+50	1028.46	1028.85
1028.16	+50	1028.37	1028.76
1027.89	+50	1028.10	1028.49
1027.97	+50	1027.78	1028.17
1027.79	+50	1027.40	1027.79
1026.76	+50	1026.97	1027.56
1026.28	+50	1026.49	1027.08
1025.76	+50	1025.95	1026.56
1025.18	+50	1025.39	1025.98
1024.62	+50	1024.83	1025.42
1024.06	+50	1024.27	1024.86
1023.49	+50	1023.70	1024.29
1022.93	+50	1023.14	1023.73
1022.37	+50	1022.58	1023.17
1021.81	+50	1022.02	1022.61
1021.24	+50	1021.46	1022.04
1020.68	+50	1020.90	1021.48
1020.12	+50	1020.34	1020.92
1019.56	+50	1019.78	1020.36
1018.99	+50	1019.22	1019.79
1018.43	+50	1018.66	1019.23
1017.87	+50	1018.10	1018.67
1017.31	+50	1017.54	1018.11
1016.75	+50	1016.98	1017.55
1016.19	+50	1016.42	1016.99
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1013.39	+50	1013.62	1014.19
1012.83	+50	1013.06	1013.63
1012.27	+50	1012.50	1013.07
1011.71	+50	1011.94	1012.51
1011.15	+50	1011.38	1011.95
1010.59	+50	1010.82	1011.39
1010.03	+50	1010.26	1010.83
1009.47	+50	1009.70	1010.27
1008.91	+50	1009.14	1009.71
1008.35	+50	1008.58	1009.15
1007.79	+50	1008.02	1008.59
1007.23	+50	1007.46	1008.03
1006.67	+50	1006.90	1007.47
1006.11	+50	1006.34	1006.91
1005.55	+50	1005.78	1006.35
1005.00	+50	1005.22	1005.79
1004.44	+50	1004.66	1005.23
1003.88	+50	1004.10	1004.67
1003.32	+50	1003.54	1004.11
1002.76	+50	1002.98	1003.55
1002.20	+50	1002.42	1002.99
1001.64	+50	1001.86	1002.43
1001.08	+50	1001.30	1001.87
1000.52	+50	1000.74	1001.31
1000.00	+50	1000.20	1000.75
999.44	+50	999.64	1000.19
998.88	+50	999.08	999.63
998.32	+50	998.52	999.07
997.76	+50	997.96	998.51
997.20	+50	997.40	997.95
996.64	+50	996.84	997.39
996.08	+50	996.28	996.83
995.52	+50	995.72	996.27
995.00	+50	995.20	995.71
994.44	+50	994.64	995.15
993.88	+50	994.08	994.59
993.32	+50	993.52	994.03
992.76	+50	992.96	993.47
992.20	+50	992.40	992.91
991.64	+50	991.84	992.35
991.08	+50	991.28	991.79
990.52	+50	990.72	991.23
990.00	+50	990.20	990.67
989.44	+50	989.64	990.11
988.88	+50	989.08	989.55
988.32	+50	988.52	988.99
987.76	+50	987.96	988.43
987.20	+50	987.40	987.87
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986.08	+50	986.28	986.75
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980.00	+50	980.20	980.59
979.44	+50	979.64	979.03
978.88	+50	978.48	978.47
978.32	+50	977.92	977.91
977.76	+50	977.36	977.35
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976.64	+50	976.24	976.23
976.08	+50	975.68	975.67
975.52	+50	975.12	975.11
975.00	+50	974.56	974.55
974.44	+50	974.00	974.00
973.88	+50	973.44	973.44
973.32	+50	972.88	972.88
972.76	+50	972.32	972.32
972.20	+50	971.76	971.76
971.64	+50	971.20	971.20
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970.52	+50	970.08	970.08
970.00	+50	969.52	969.52



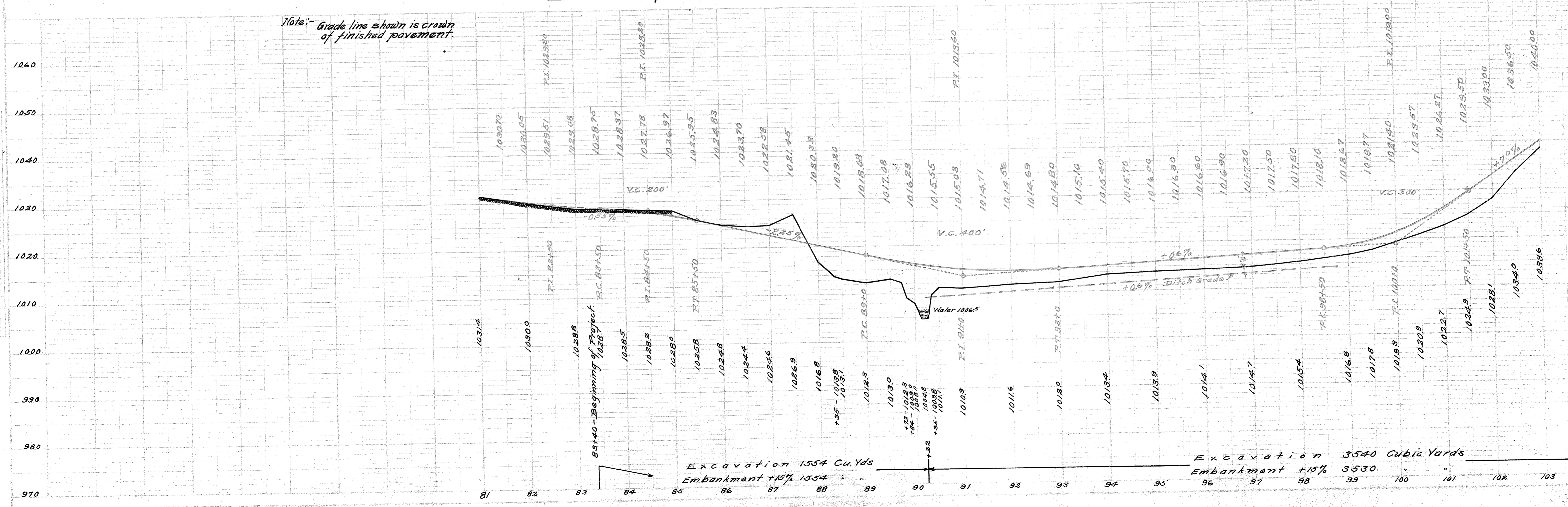
B.M. Sta. 85+10
RR Spike W. Chy. Sta. 40'
Rt. Elev. 1031.97

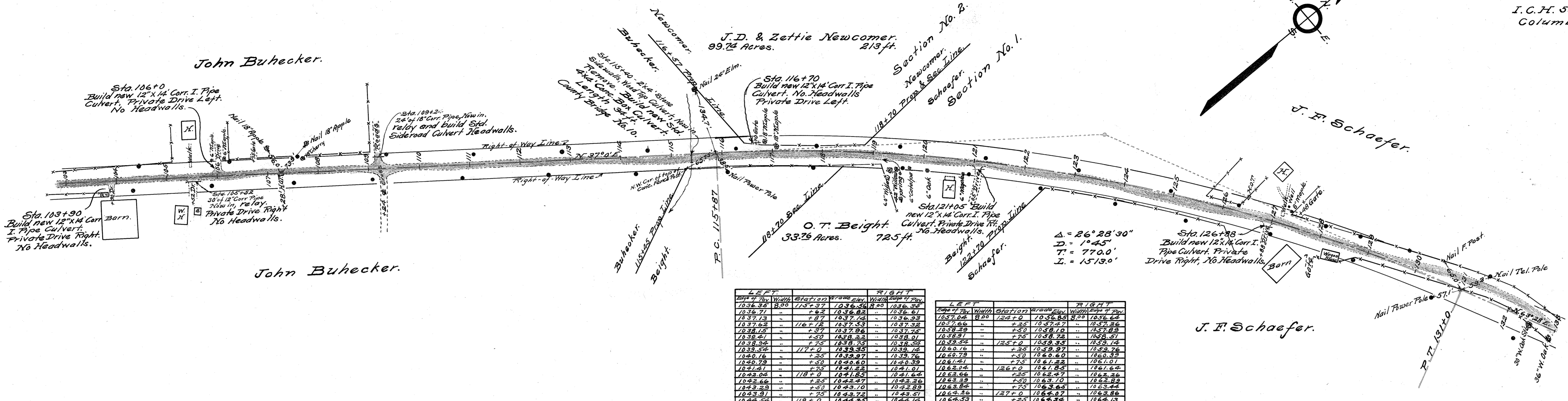
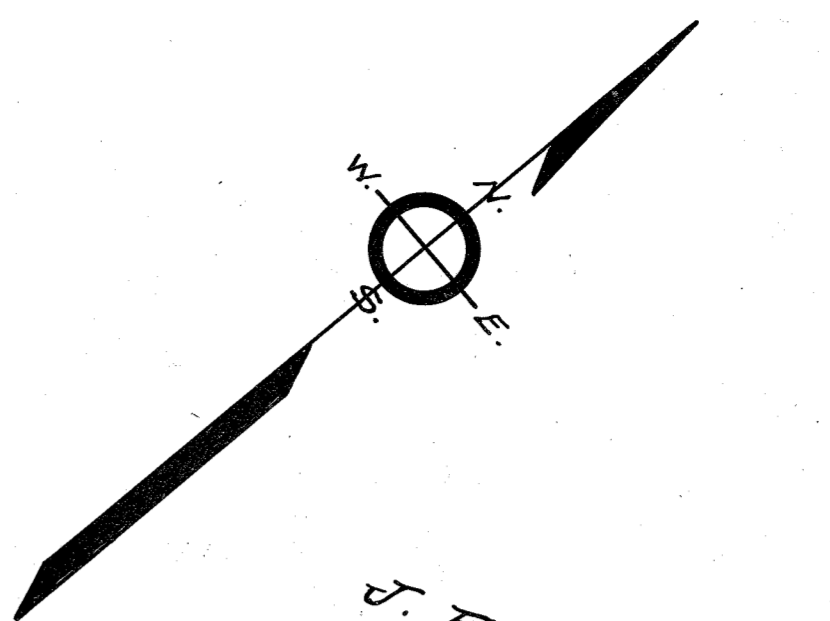
B.M. Sta. 87+50
RR Spike root Hickory Lift
Elev. 1024.54

B.M. Sta. 88+75
Top Conc. Post 5' Rt.
Elev. 1019.57

B.M. Sta. 98+70
Top Conc. Post 20' Rt.
Elev. 1018.93

Note: Grade line shown is crown of finished pavement.





LEFT	Station	Right	Station	Right
1034.36	103+00	1036.50	103+20	1036.50
1036.71	103+20	1038.85	103+40	1038.85
1039.23	103+40	1041.37	103+60	1041.37
1041.89	103+60	1044.00	103+80	1044.00
1044.51	103+80	1046.72	104+00	1046.72
1047.34	104+00	1049.54	104+20	1049.54
1050.27	104+20	1052.46	104+40	1052.46
1053.30	104+40	1055.38	104+60	1055.38
1056.42	104+60	1058.30	104+80	1058.30
1059.54	104+80	1061.22	105+00	1061.22
1062.66	105+00	1064.14	105+20	1064.14
1065.78	105+20	1067.06	105+40	1067.06
1068.90	105+40	1069.98	105+60	1069.98
1072.02	105+60	1072.90	105+80	1072.90
1075.14	105+80	1075.82	106+00	1075.82
1078.26	106+00	1078.74	106+20	1078.74
1081.38	106+20	1081.62	106+40	1081.62
1084.50	106+40	1084.86	106+60	1084.86
1087.62	106+60	1088.22	106+80	1088.22
1090.74	106+80	1091.58	107+00	1091.58
1093.86	107+00	1094.94	107+20	1094.94
1096.98	107+20	1098.30	107+40	1098.30
1100.10	107+40	1101.66	107+60	1101.66
1103.22	107+60	1105.02	107+80	1105.02
1106.34	107+80	1108.38	108+00	1108.38
1109.46	108+00	1111.74	108+20	1111.74
1112.58	108+20	1115.10	108+40	1115.10
1115.70	108+40	1118.46	108+60	1118.46
1118.82	108+60	1121.82	108+80	1121.82
1121.94	108+80	1125.18	109+00	1125.18
1125.06	109+00	1128.54	109+20	1128.54
1128.18	109+20	1131.90	109+40	1131.90
1131.30	109+40	1135.26	109+60	1135.26
1134.42	109+60	1138.62	109+80	1138.62
1137.54	109+80	1141.98	110+00	1141.98
1140.66	110+00	1145.34	110+20	1145.34
1143.78	110+20	1148.70	110+40	1148.70
1146.90	110+40	1152.06	110+60	1152.06
1150.02	110+60	1155.42	110+80	1155.42
1153.14	110+80	1158.78	111+00	1158.78
1156.26	111+00	1162.14	111+20	1162.14
1159.38	111+20	1165.50	111+40	1165.50
1162.50	111+40	1168.86	111+60	1168.86
1165.62	111+60	1172.22	111+80	1172.22
1168.74	111+80	1175.58	112+00	1175.58
1171.86	112+00	1178.94	112+20	1178.94
1174.98	112+20	1182.30	112+40	1182.30
1178.10	112+40	1185.66	112+60	1185.66
1181.22	112+60	1189.02	112+80	1189.02
1184.34	112+80	1192.38	113+00	1192.38
1187.46	113+00	1195.74		

B.M. Sta. 103+90
Top of 12" x 14" Barn
Elev. 1049.92

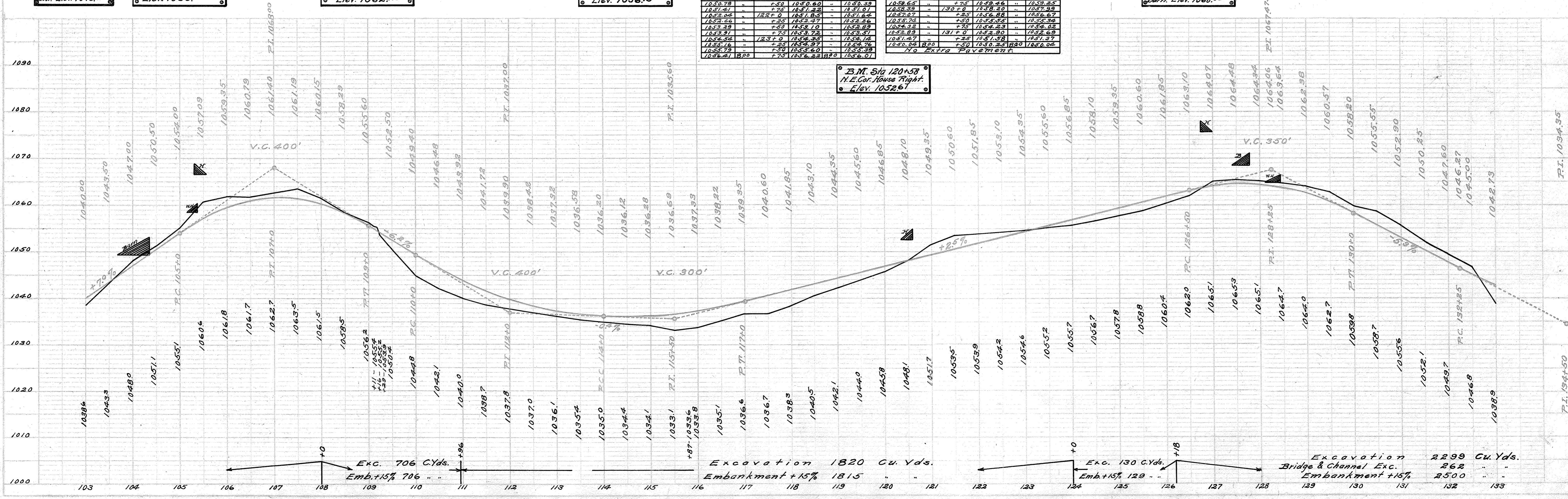
B.M. Sta. 105+65
N.E. Cor. House Left
Elev. 1066.55

B.M. Sta. 109+0
Top Conc. Post 30' R.
Elev. 1062.74

B.M. Sta. 115+30
Top Conc. Post 28' R.
Elev. 1036.19

B.M. Sta. 127+50
Top 1st Course Stone S.W. Cor.
Barn. Elev. 1068.38

B.M. Sta. 120+58
N.E. Cor. House Right
Elev. 1052.67

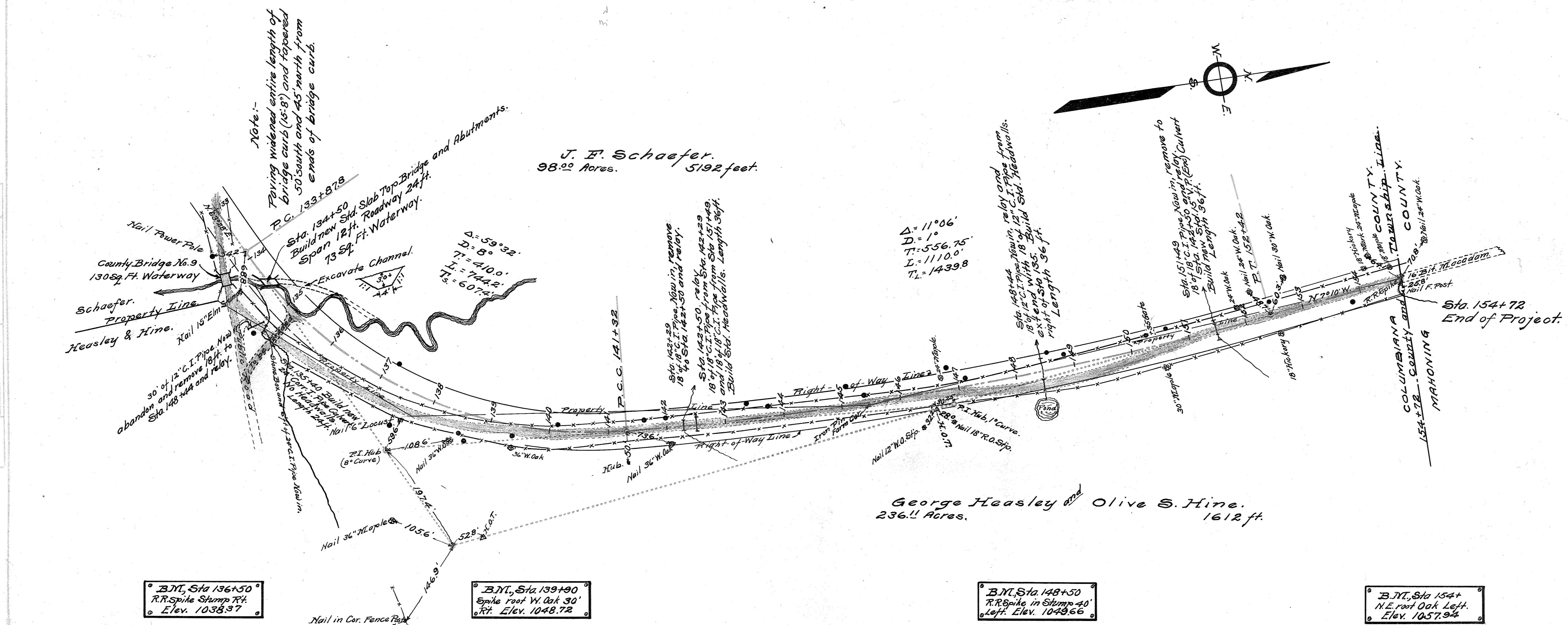


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BY: _____
CHECKED: _____
DATE: _____
NO. 123

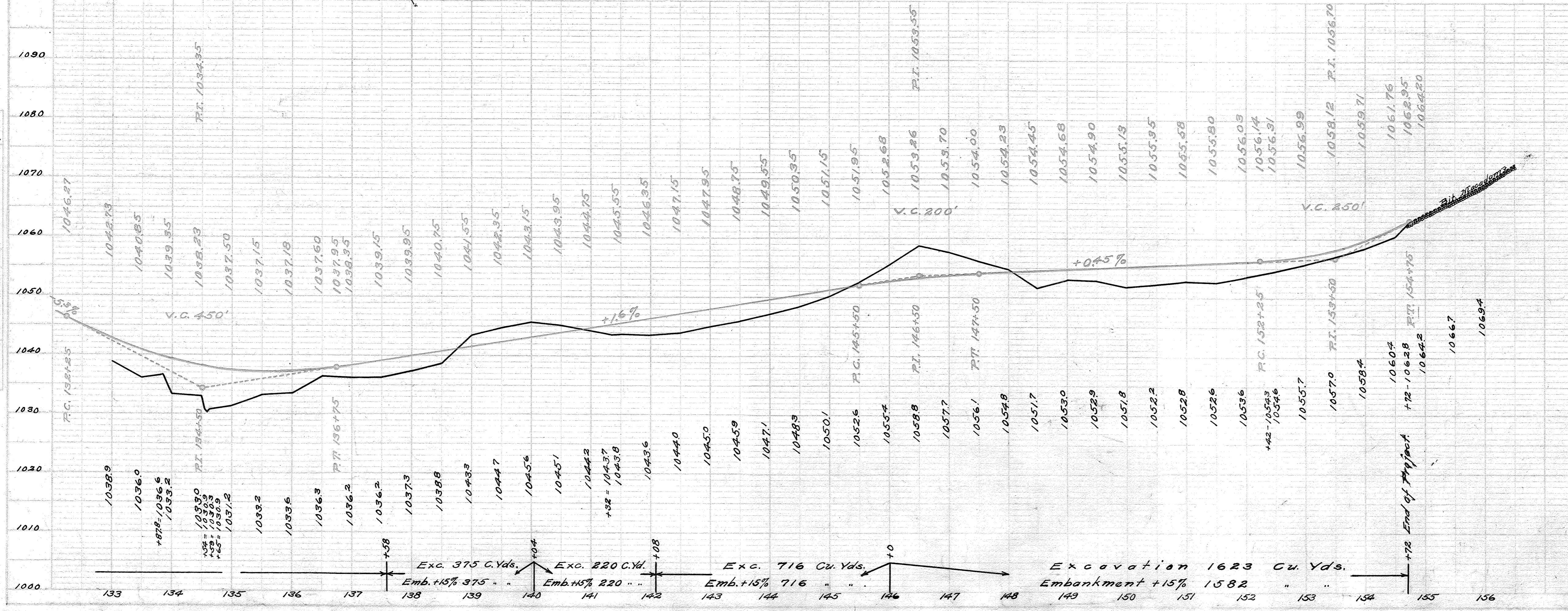
DATE: _____
BY: _____
CHECKED: _____
DATE: _____
NO. 123

PLAN
NO. 123

PROFILE
NO. 123



LEFT	Width	Right	Width
1041.06	18.00	1041.06	18.00
1040.18	18.60	1040.18	18.60
1039.30	19.20	1039.30	19.20
1038.42	19.80	1038.42	19.80
1037.54	20.40	1037.54	20.40
1036.66	21.00	1036.66	21.00
1035.78	21.60	1035.78	21.60
1034.90	22.20	1034.90	22.20
1034.02	22.80	1034.02	22.80
1033.14	23.40	1033.14	23.40
1032.26	24.00	1032.26	24.00
1031.38	24.60	1031.38	24.60
1030.50	25.20	1030.50	25.20
1029.62	25.80	1029.62	25.80
1028.74	26.40	1028.74	26.40
1027.86	27.00	1027.86	27.00
1026.98	27.60	1026.98	27.60
1026.10	28.20	1026.10	28.20
1025.22	28.80	1025.22	28.80
1024.34	29.40	1024.34	29.40
1023.46	30.00	1023.46	30.00
1022.58	30.60	1022.58	30.60
1021.70	31.20	1021.70	31.20
1020.82	31.80	1020.82	31.80
1019.94	32.40	1019.94	32.40
1019.06	33.00	1019.06	33.00
1018.18	33.60	1018.18	33.60
1017.30	34.20	1017.30	34.20
1016.42	34.80	1016.42	34.80
1015.54	35.40	1015.54	35.40
1014.66	36.00	1014.66	36.00
1013.78	36.60	1013.78	36.60
1012.90	37.20	1012.90	37.20
1012.02	37.80	1012.02	37.80
1011.14	38.40	1011.14	38.40
1010.26	39.00	1010.26	39.00
1009.38	39.60	1009.38	39.60
1008.50	40.20	1008.50	40.20
1007.62	40.80	1007.62	40.80
1006.74	41.40	1006.74	41.40
1005.86	42.00	1005.86	42.00
1004.98	42.60	1004.98	42.60
1004.10	43.20	1004.10	43.20
1003.22	43.80	1003.22	43.80
1002.34	44.40	1002.34	44.40
1001.46	45.00	1001.46	45.00
1000.58	45.60	1000.58	45.60
1000.00	46.00	1000.00	46.00



B.M. Sta 136+50
R.R. Spike Stump Pt.
Elev. 1038.37

B.M. Sta 139+90
Spike root W. Oak 30'
Rt. Elev. 1048.72

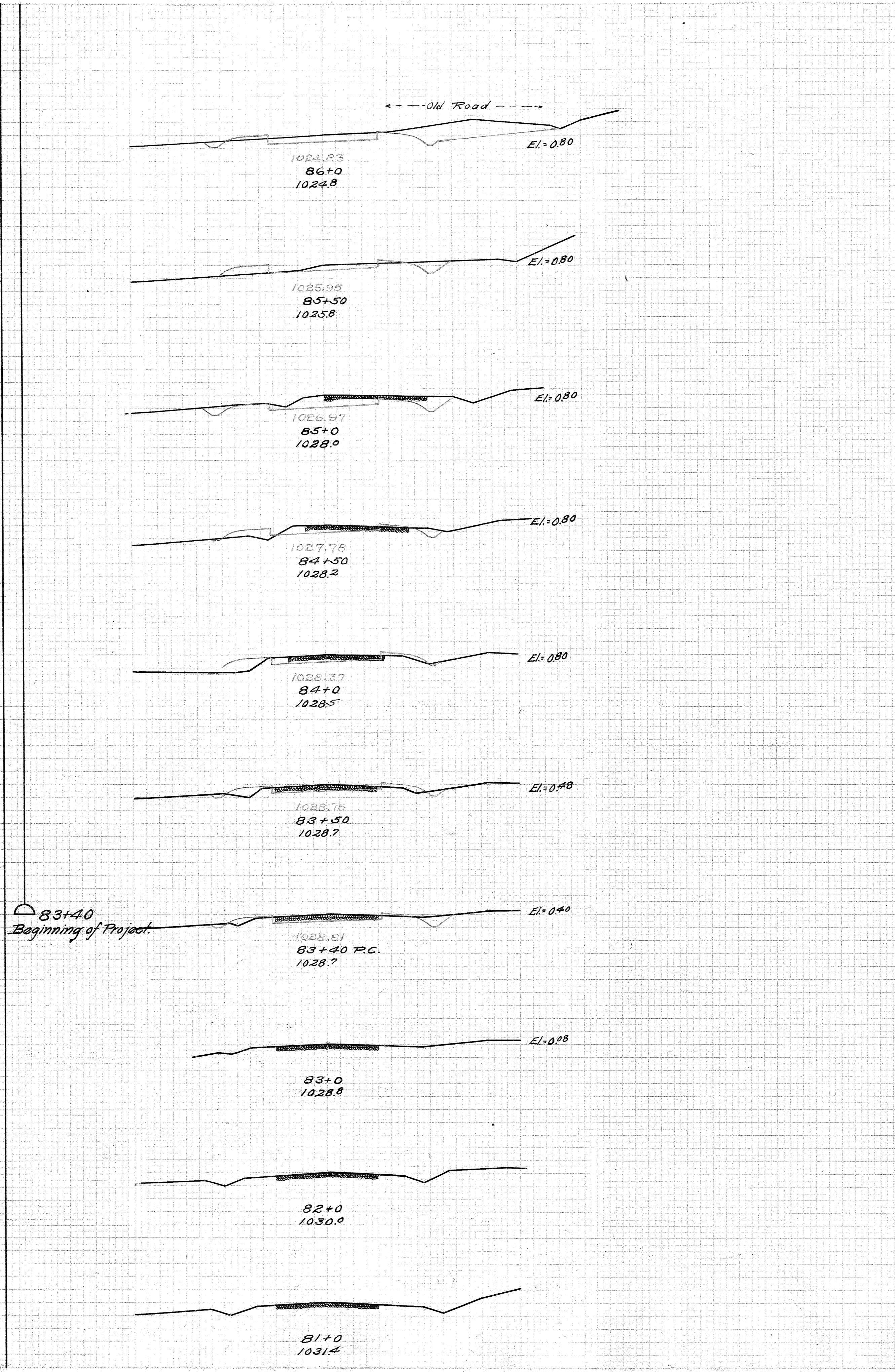
B.M. Sta 148+50
R.R. Spike in Stump 40'
Left Elev. 1048.66

B.M. Sta 154+
N.E. root Oak Left.
Elev. 1057.94

FINAL SURVEYED PLOTTED
NOTE BOOK AREA
AREAS CHECKED

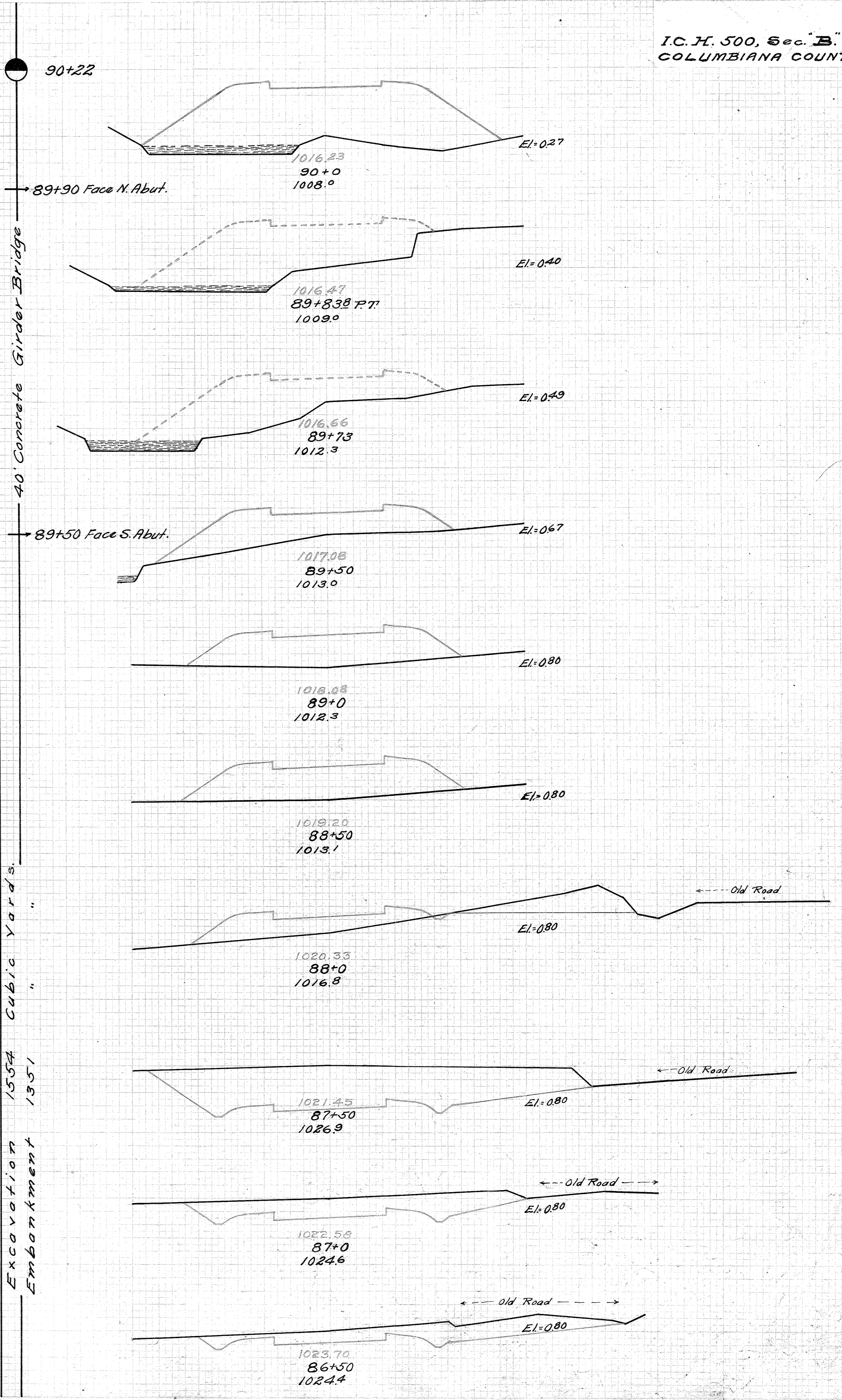
ORIGINAL SURVEY PLOTTED
NOTE BOOK AREA
123

CUT	FILL
END AREA VOL.	END AREA VOL.
186	3
67	3
75	9
14	7
51	6
41	0
53	6
16	7
30	17
16	11
31	18
18	8
7	2
22	3



83+40
Beginning of Project.

CUT	FILL
END AREA VOL.	END AREA VOL.
1	166
	426
	260
	393
	130
	167
	310
	168
	315
0	173
22	240
58	87
385	35
358	
461	
140	
253	
134	0



40 Concrete Girder Bridge

Excavation 1554
Embankment 1551

89+90 Face N. Abut.

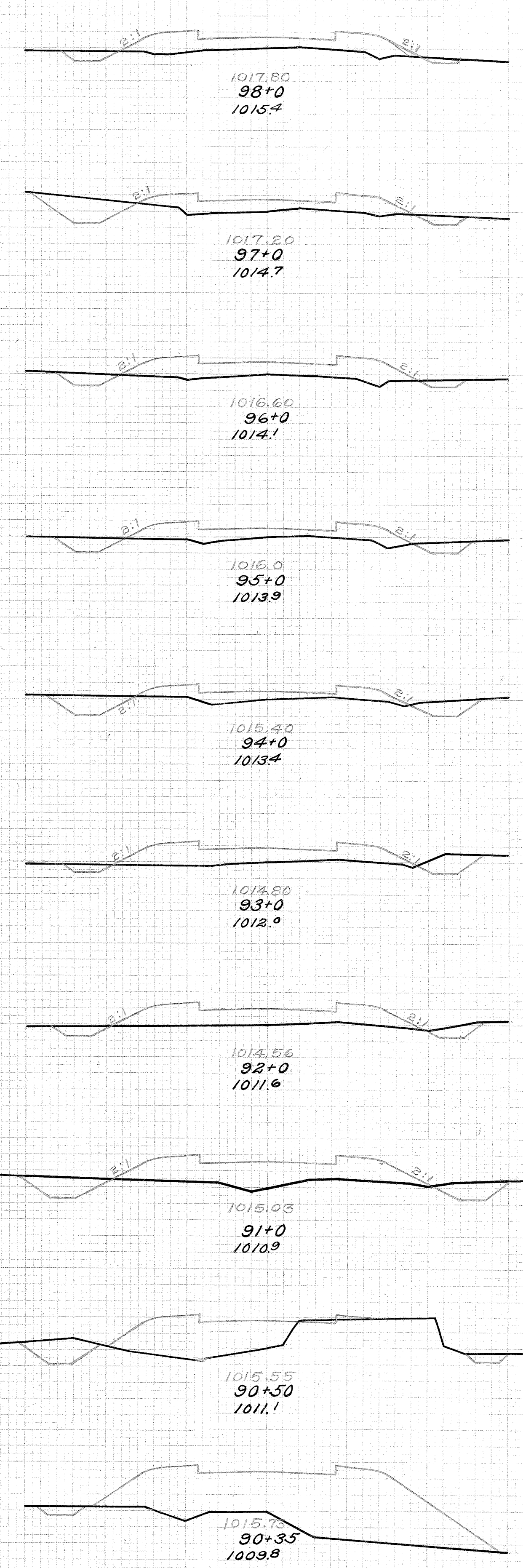
89+50 Face S. Abut.

40 Concrete Girder Bridge

Excavation 1554
Embankment 1551

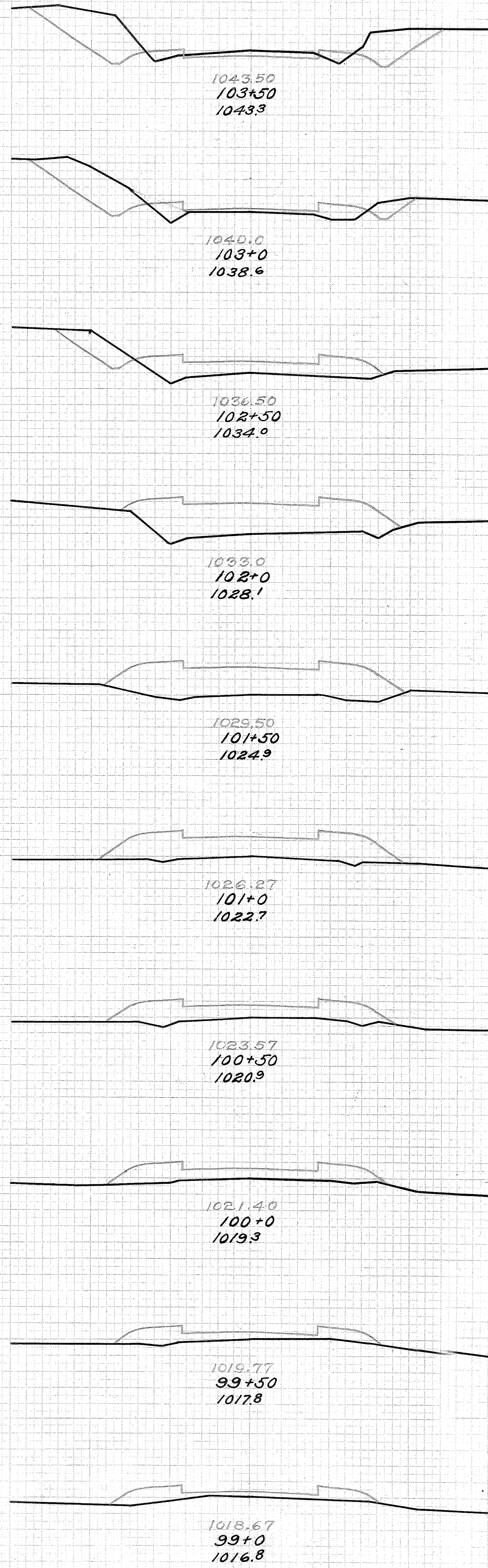
FINAL SURVEY SHEET
 SURVEY SYSTEM
 DATE
 BY
 ORIGINAL SURVEY SHEET
 SURVEY SYSTEM
 DATE
 BY
 NOTE BOOK
 AREA
 VOL.

CUT		FILL	
END AREA	VOL.	END AREA	VOL.
22	154		
8	56		
65	182		
27	42		
72	193		
12	62		
54	196		
17	44		
80	141		
26	32		
76	176		
15	63		
54	237		
14	65		
81	283		
30	88		
47	163		
21	88		
7	98		
4	264		



CUT		FILL	
END AREA	VOL.	END AREA	VOL.
194	6		
83	7		
123	24		
50	19		
64	68		
19	55		
18	166		
0	124		
	228		
	123		
	197		
	90		
	143		
	65		
	105		
	49		
	82		
	40		
	62		
	27		

Excavation 3540 Cubic Yards
 Embankment 3070 Cubic Yards



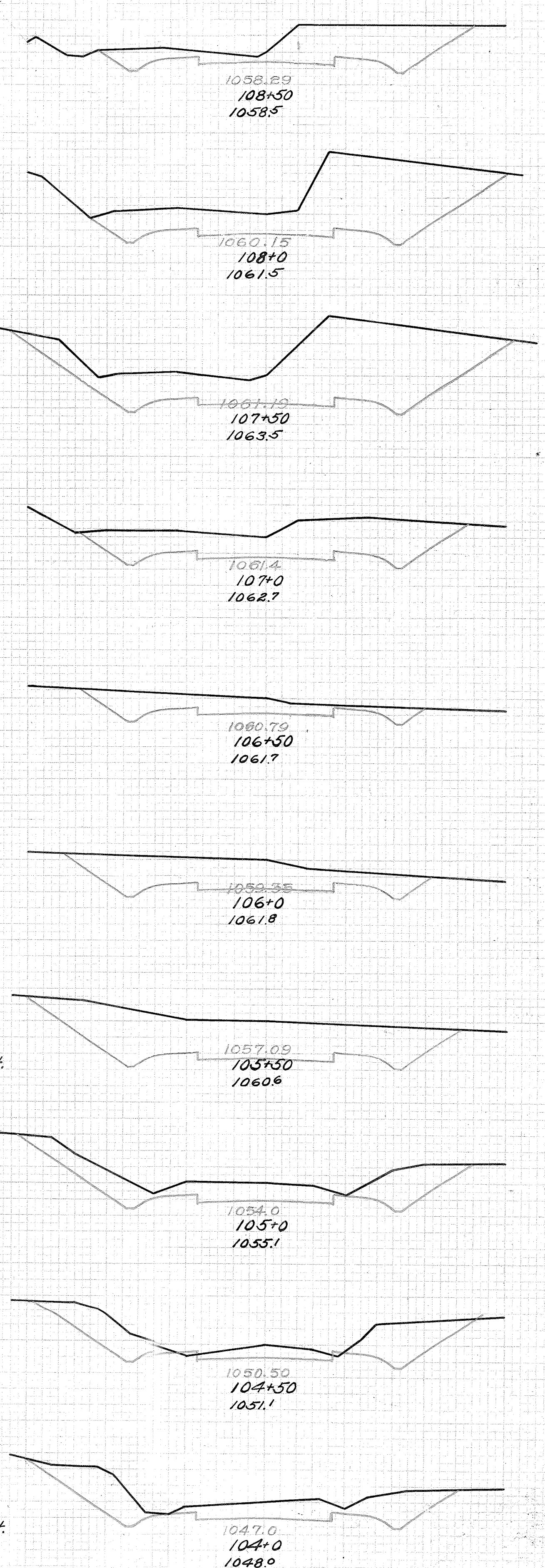
CUT		FILL	
END AREA	VOL.	END AREA	VOL.
252			
131			
358			
255			
540			
329			
458			
165			
220			
73			
191			
19			
134			
333			
225			
21			
330			
132			
228			
114			
223			
127			
19			

108+0

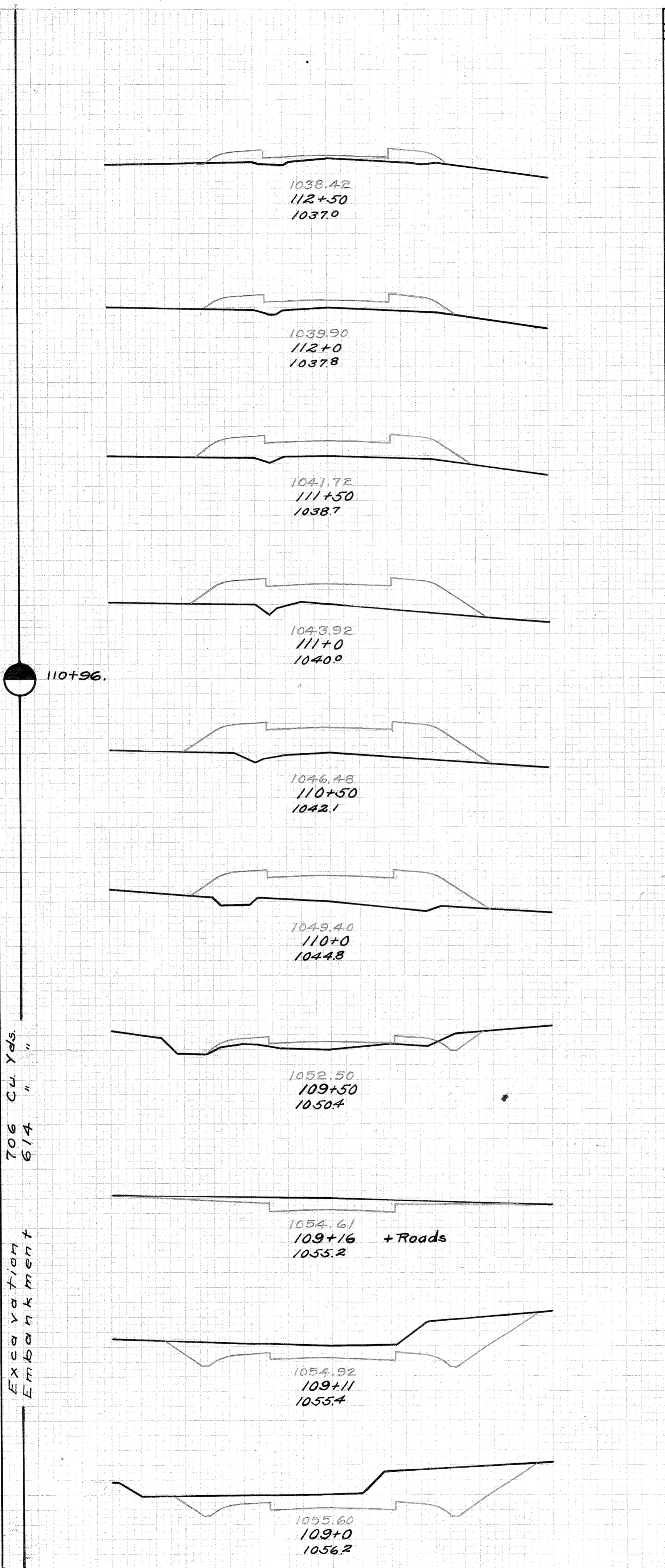
Drive Left

Drive Right

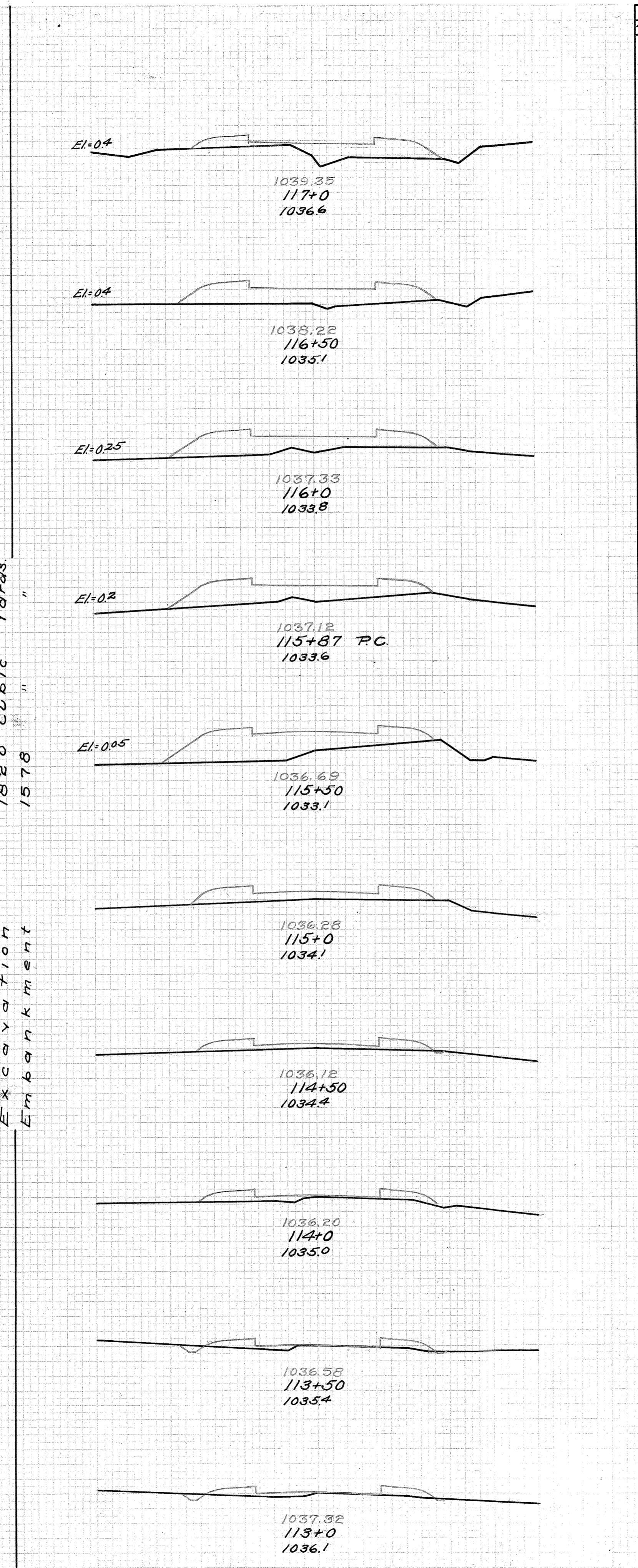
Drive Right



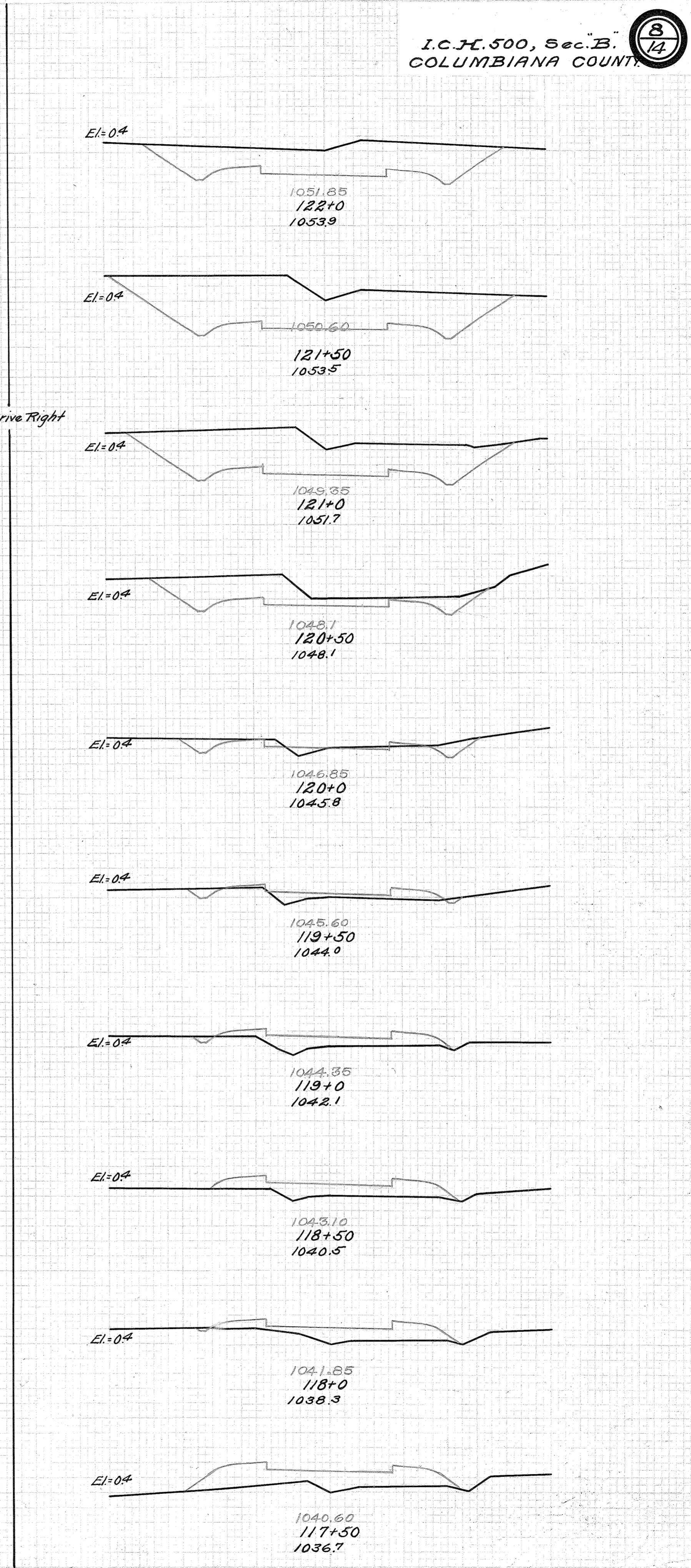
STATION	CUT		FILL	
	END AREA	VOL.	END AREA	VOL.
0	2	41		
		29		
		68		
		45		
		112		
		76		
		175		
		113		
	20			
	232			
	212			
		138		
		250		
		132		
	2	142		
7		22		
		24		
		10		
31				
		15		
129				
		55		
141				



STATION	CUT		FILL	
	END AREA	VOL.	END AREA	VOL.
				116
				55
				115
				69
				133
				75
				36
				74
				116
				95
				128
				44
				62
				23
				39
				19
				30
				13
				26
				15



STATION	CUT		FILL	
	END AREA	VOL.	END AREA	VOL.
				260
				159
				397
				270
				448
				17
				214
				283
				92
				0
				98
				2
				14
				4
				17
				20
				4
				18
				6
				50
				2
				36
				2
				76
				0
				46
				1
				81
				1
				41
				103
				71



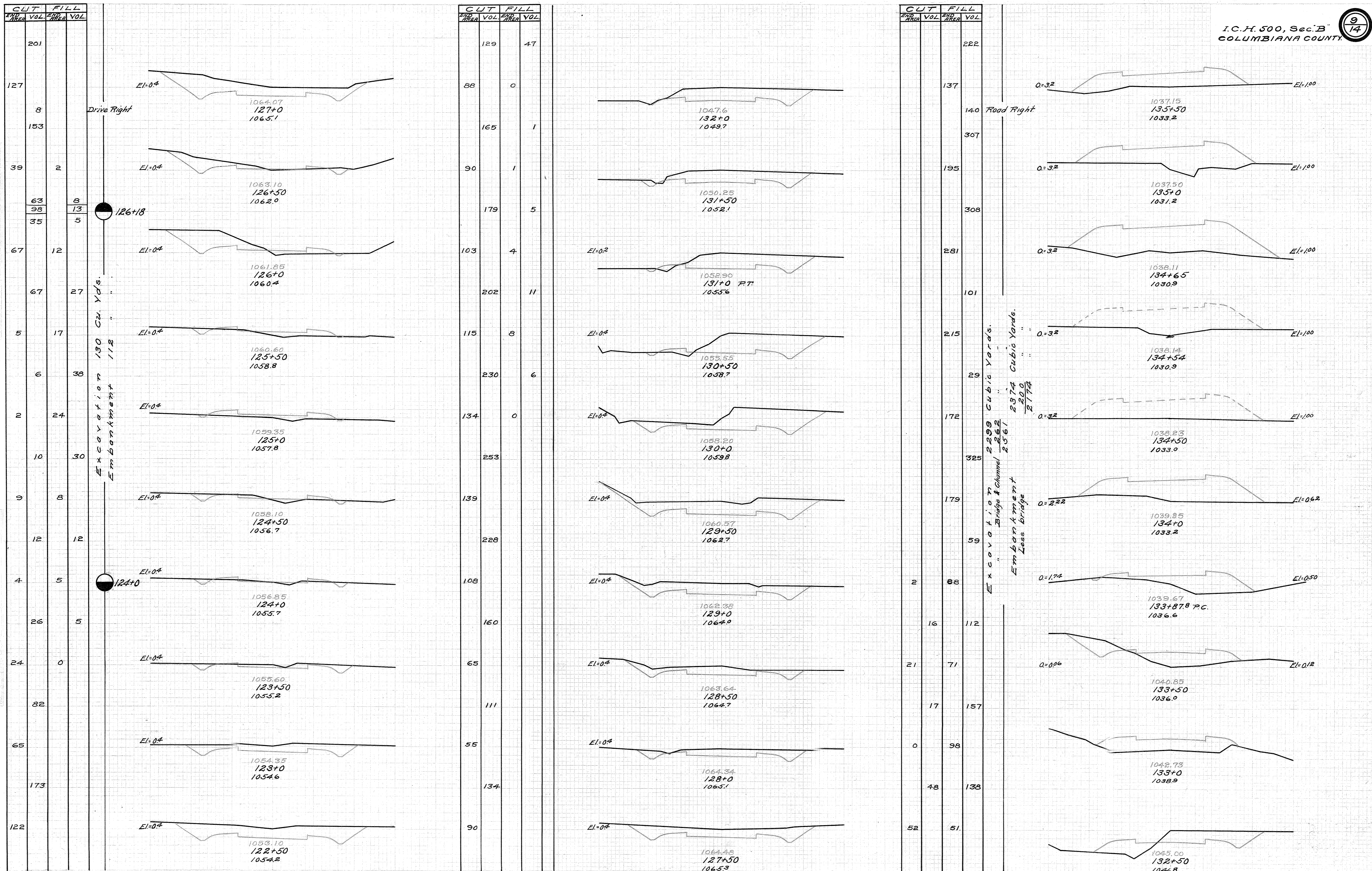
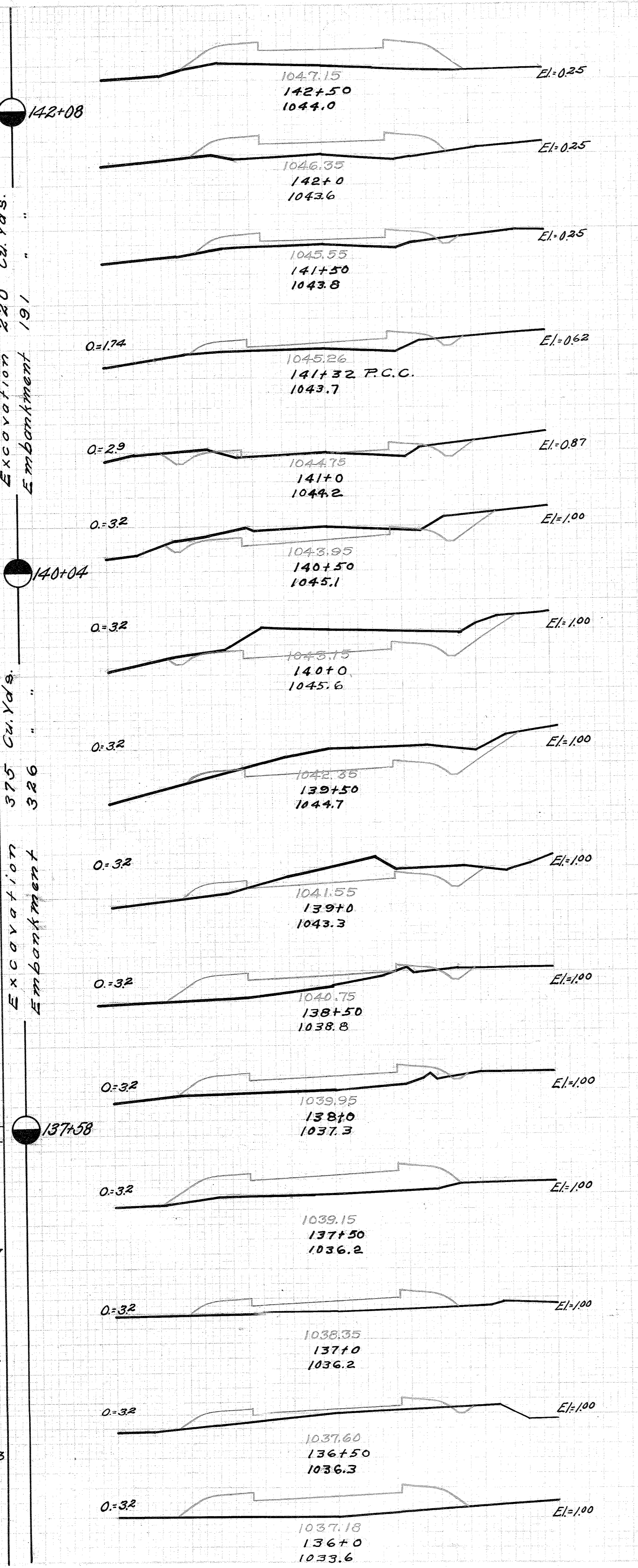
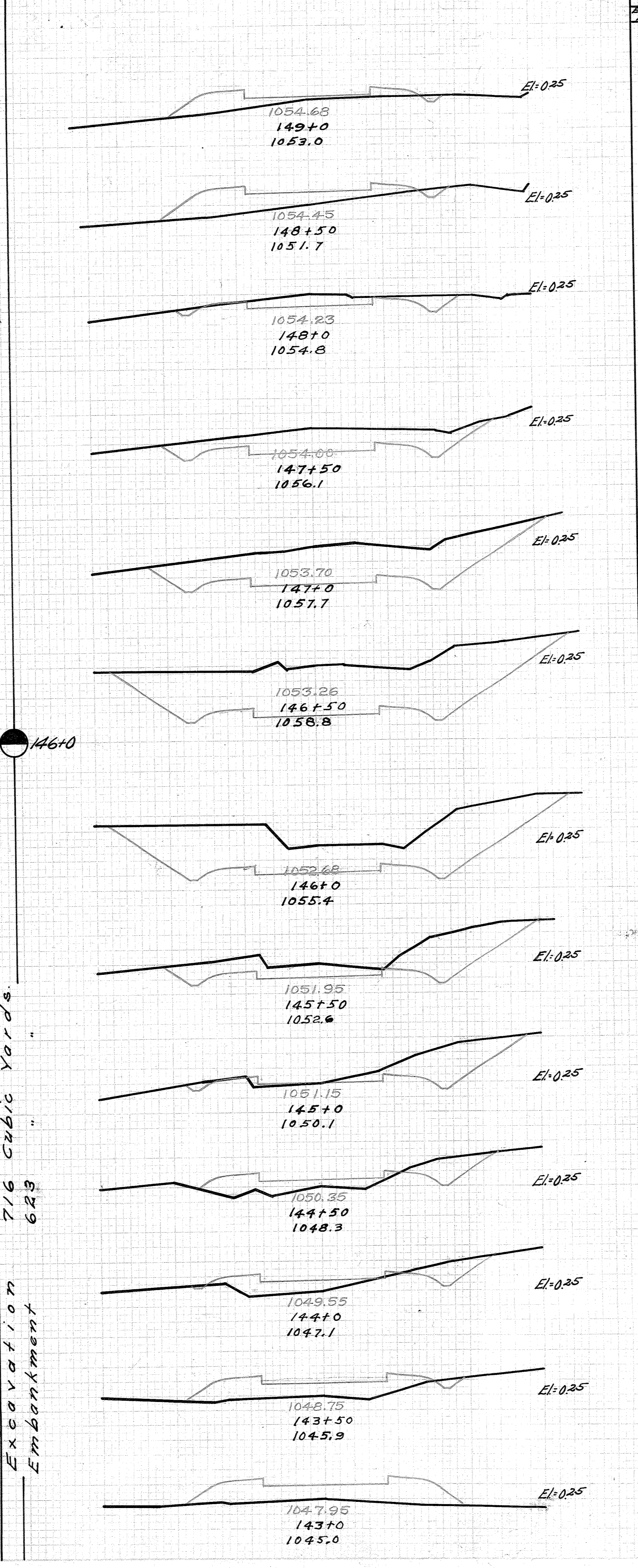


PLATE 3 CROSS SECTION

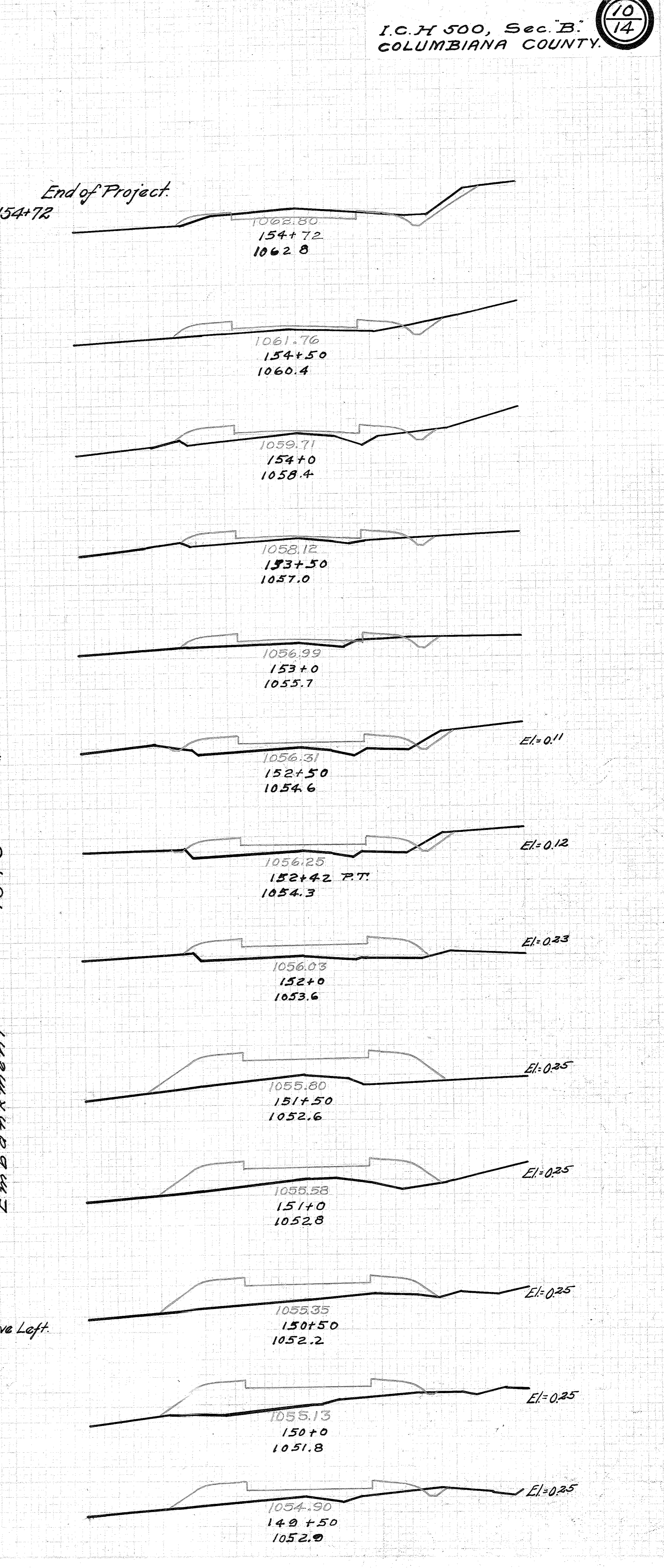
CUT		FILL	
END AREA	VOL.	END AREA	VOL.
89	158		
126			
151			
25			
74			
104			
39			
26			
38			
28			
9			
12			
9			
65			
58			
143			
155			
72			
109			
181			
87			
127			
50			
50			
4			
56			
117			
70			
131			
157			
26			
100			
147			
59			
92			
41			
133			
103			



CUT		FILL	
END AREA	VOL.	END AREA	VOL.
4	86		
2	46		
6	106		
4	69		
37	64		
36	0		
132			
106			
298			
216			
520			
345			
580			
586			
6			
288			
380			
123			
178			
70			
88			
25			
42			
20			
21			
3			
1			
0			

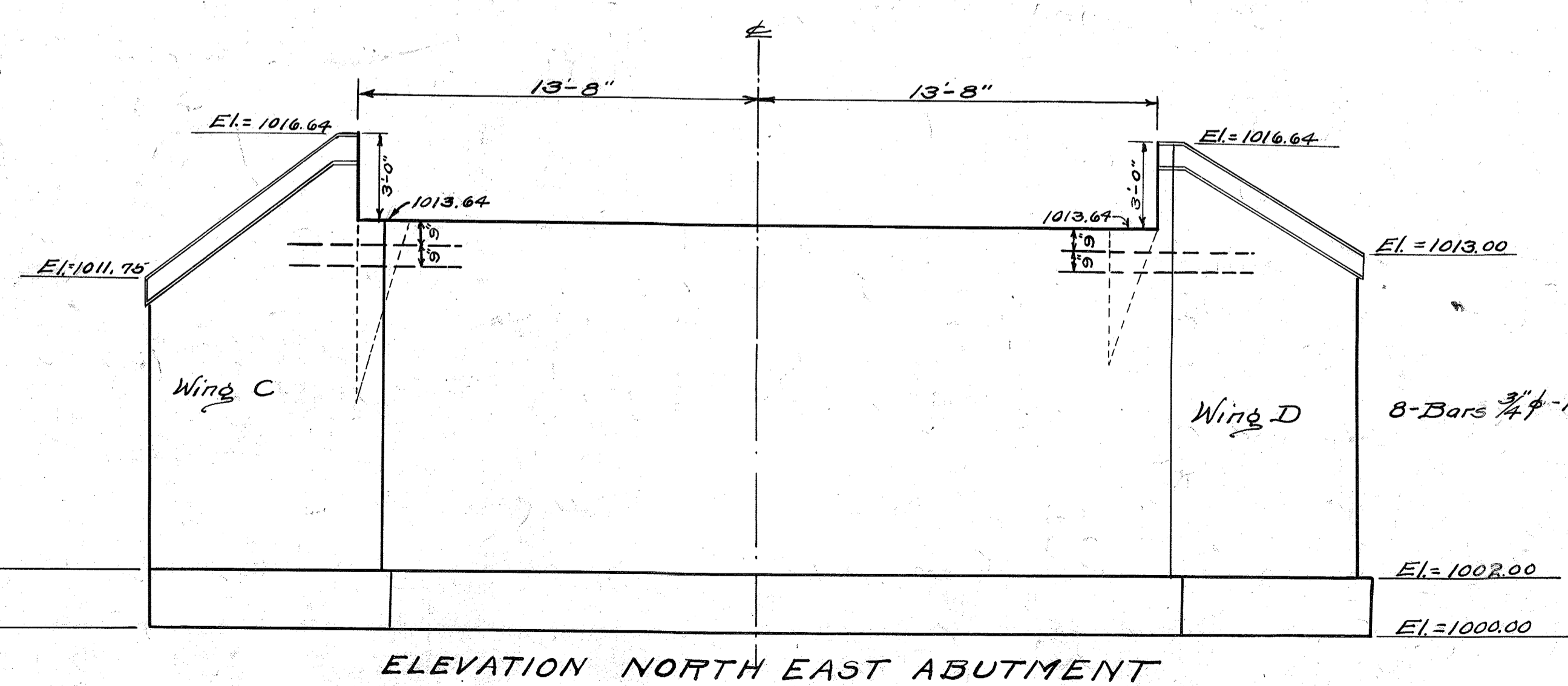
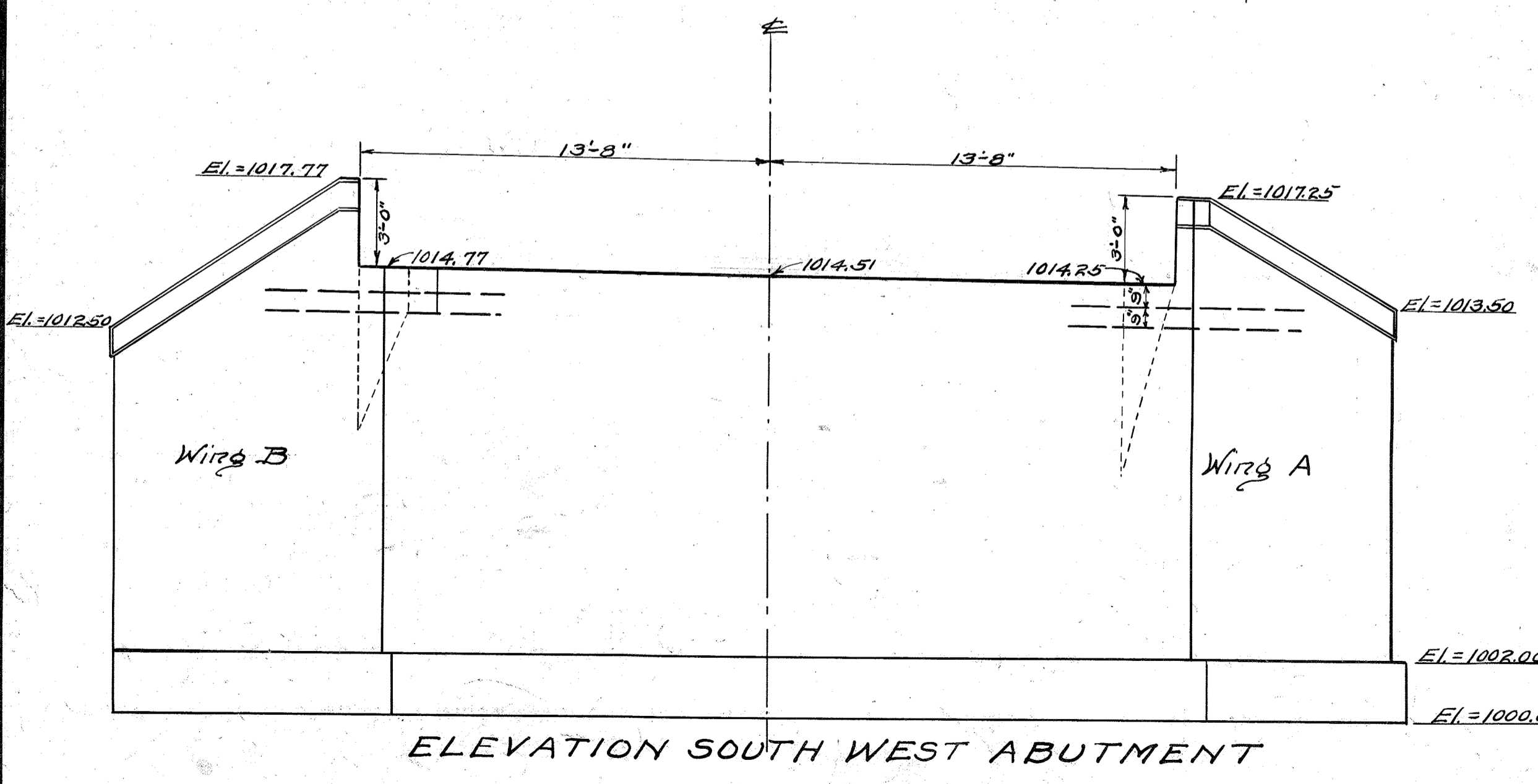
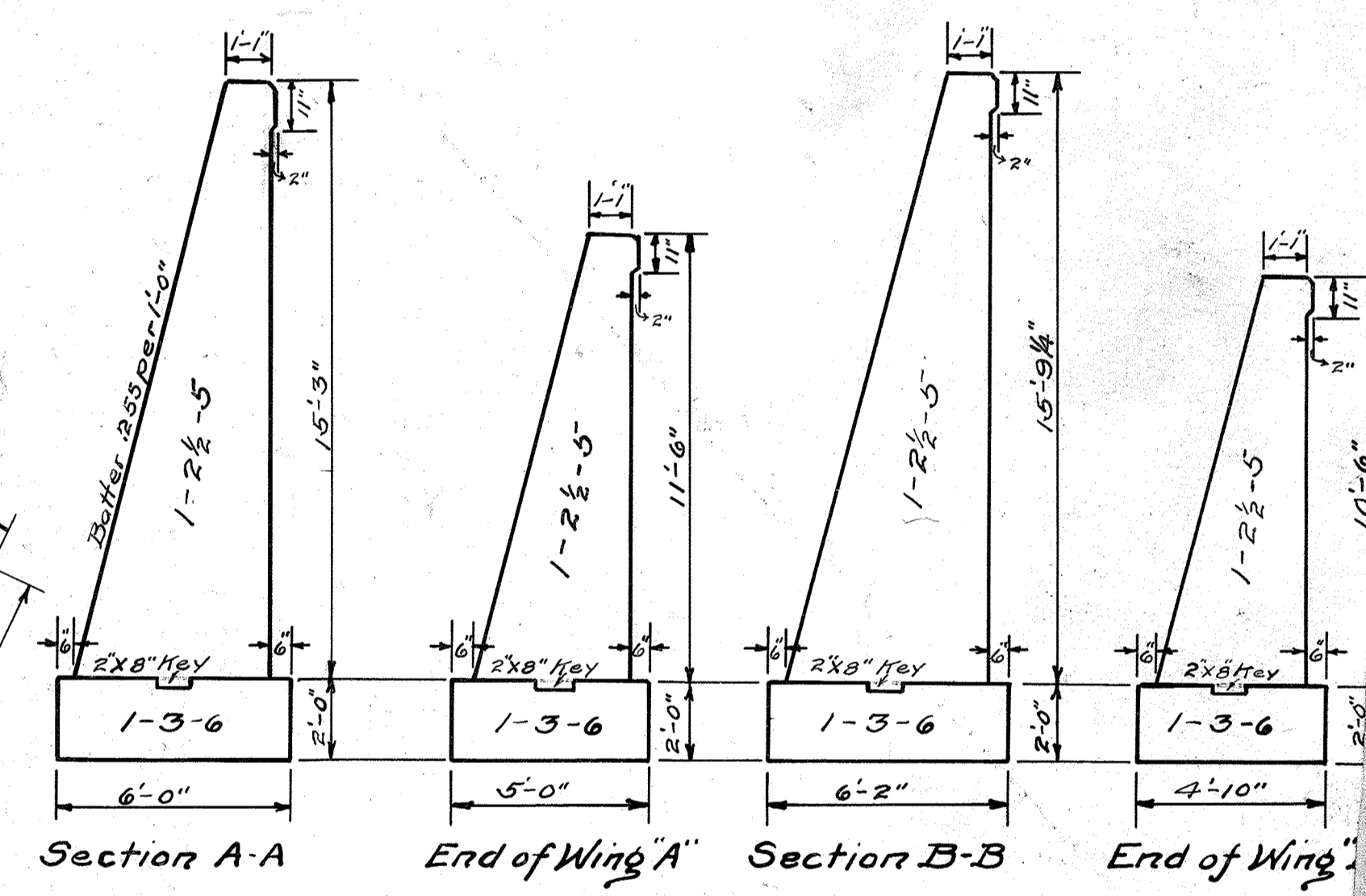
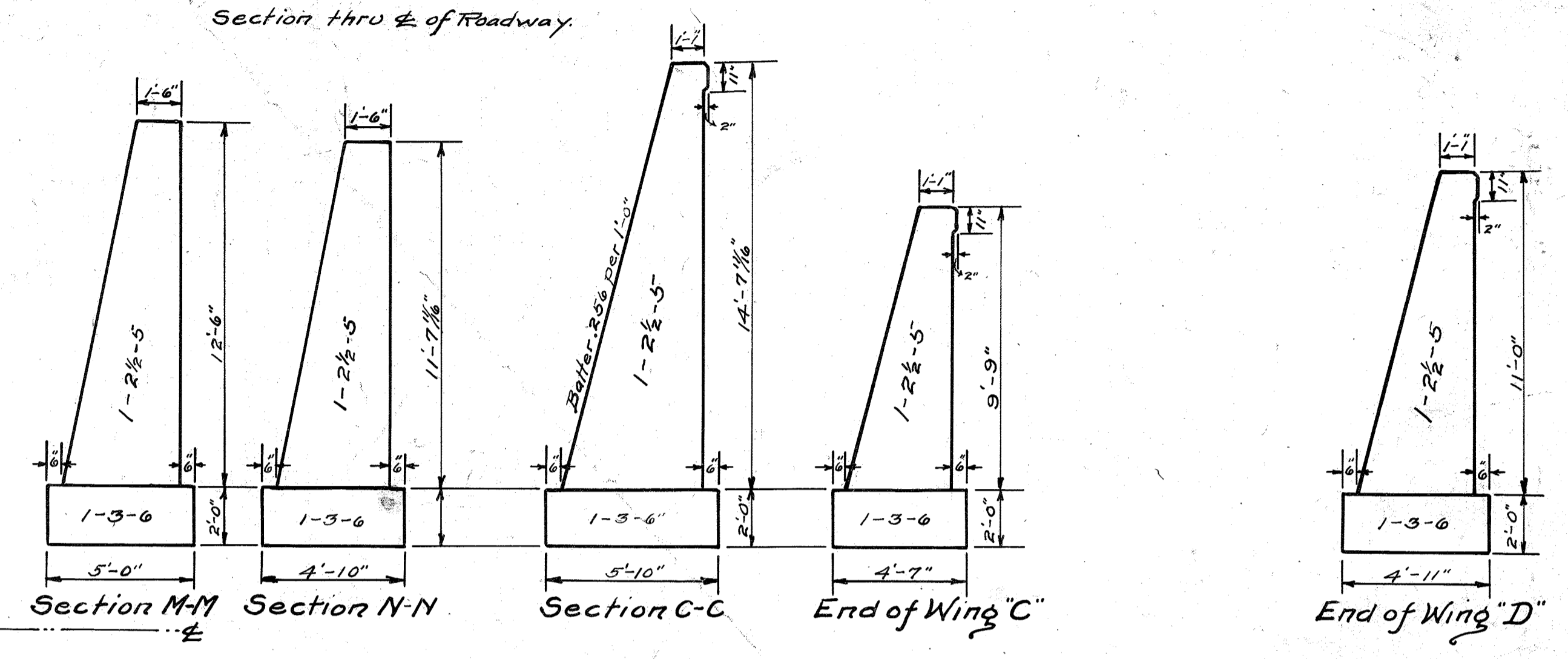
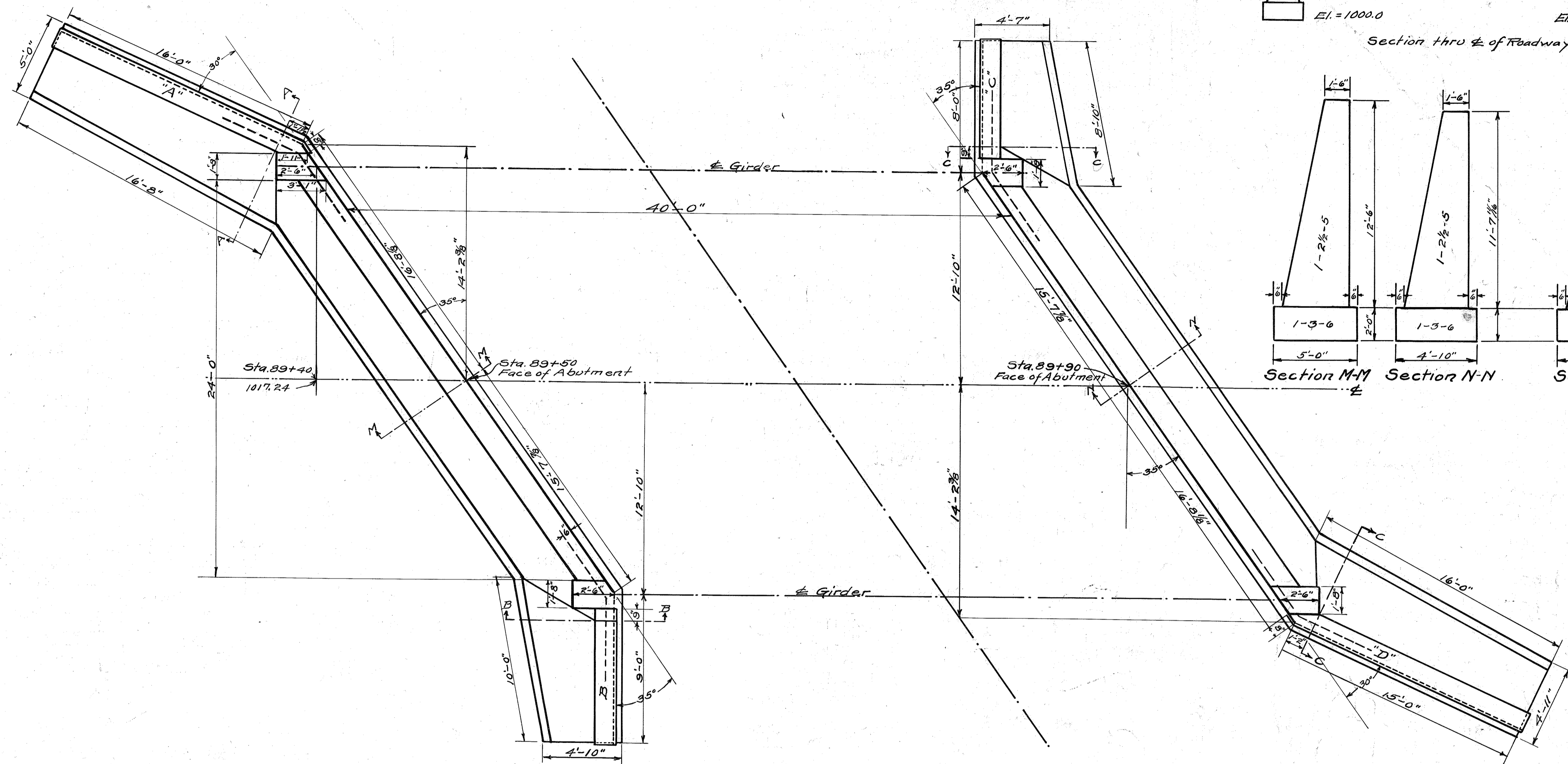
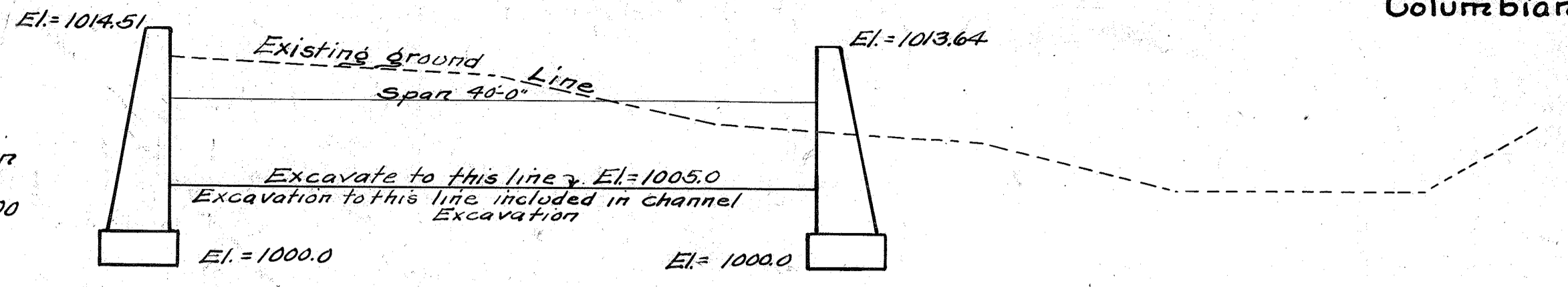


CUT		FILL	
END AREA	VOL.	END AREA	VOL.
25	4		
12	11		
5	23		
7	50		
3	31		
6	48		
3	21		
7	37		
5	19		
8	57		
4	43		
1	13		
5	48		
3	82		
58			
160			
114			
185			
86			
156			
82			
154			
0			
85			
2			
122			
2			
47			



FINAL
SURVEY
DRAWING
NOT FOR
CONSTRUCTION
UNLESS
SPECIFICALLY
NOTED
DATE: 11/14/13
BY: [Signature]

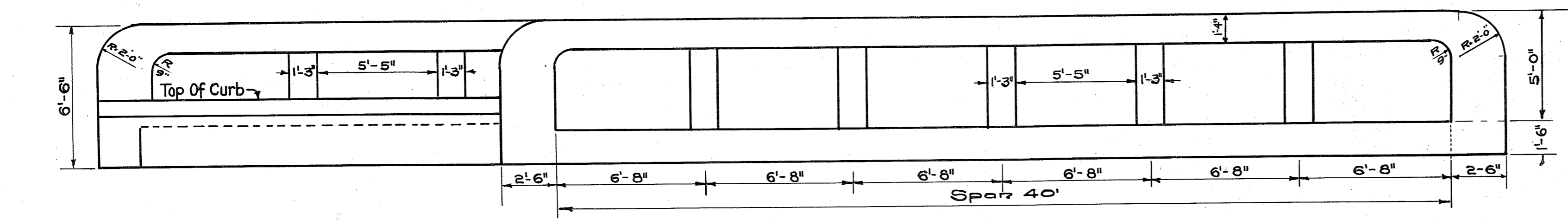
Note:-
Wet excavation
figured below
elevation 1005.00



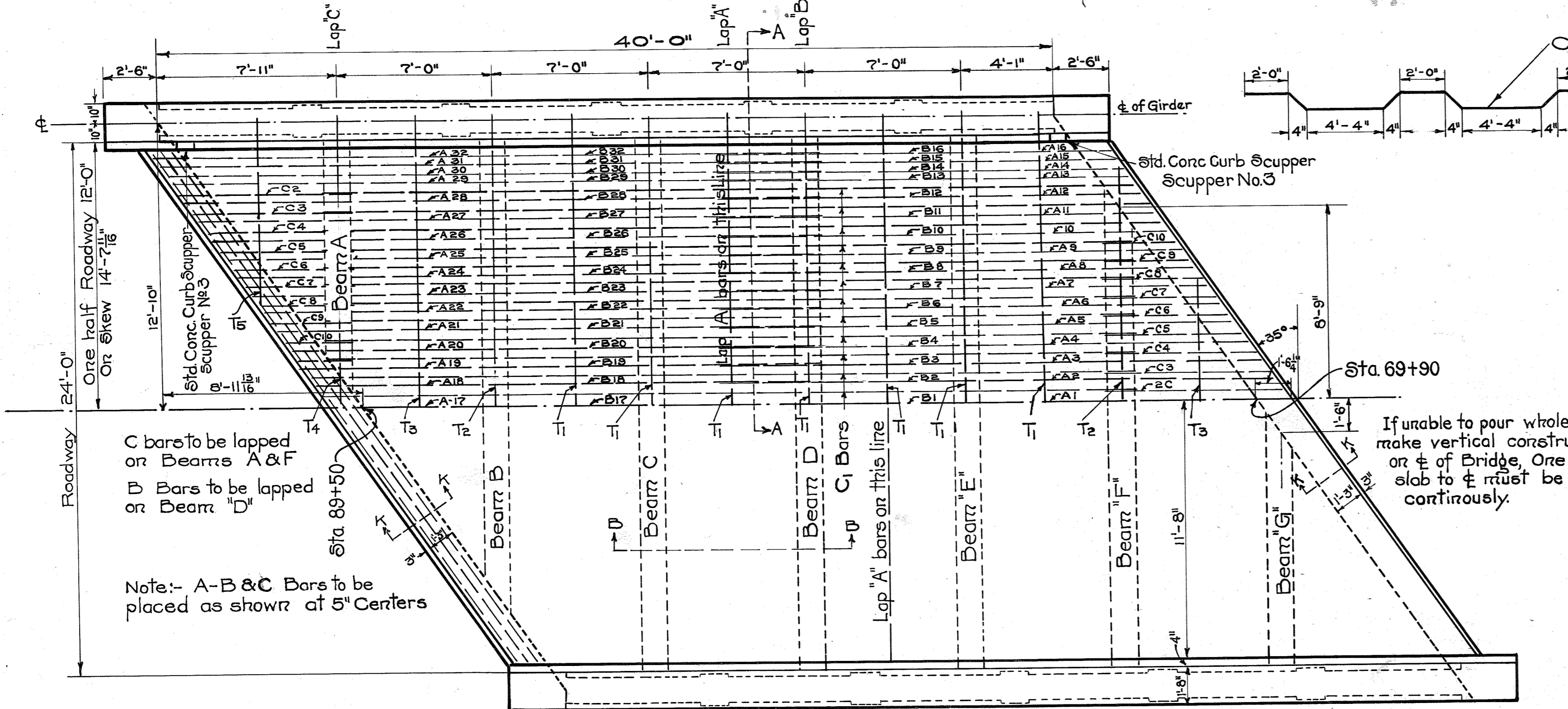
Wet Excavation	150 Cu. Yd.
Dry Excavation	140 "
1-2 1/2-5 Concrete	142.1 "
1-3-6 Concrete	41.9 "
Reinforcing Steel	120 Lbs

County Bridge No. 11.

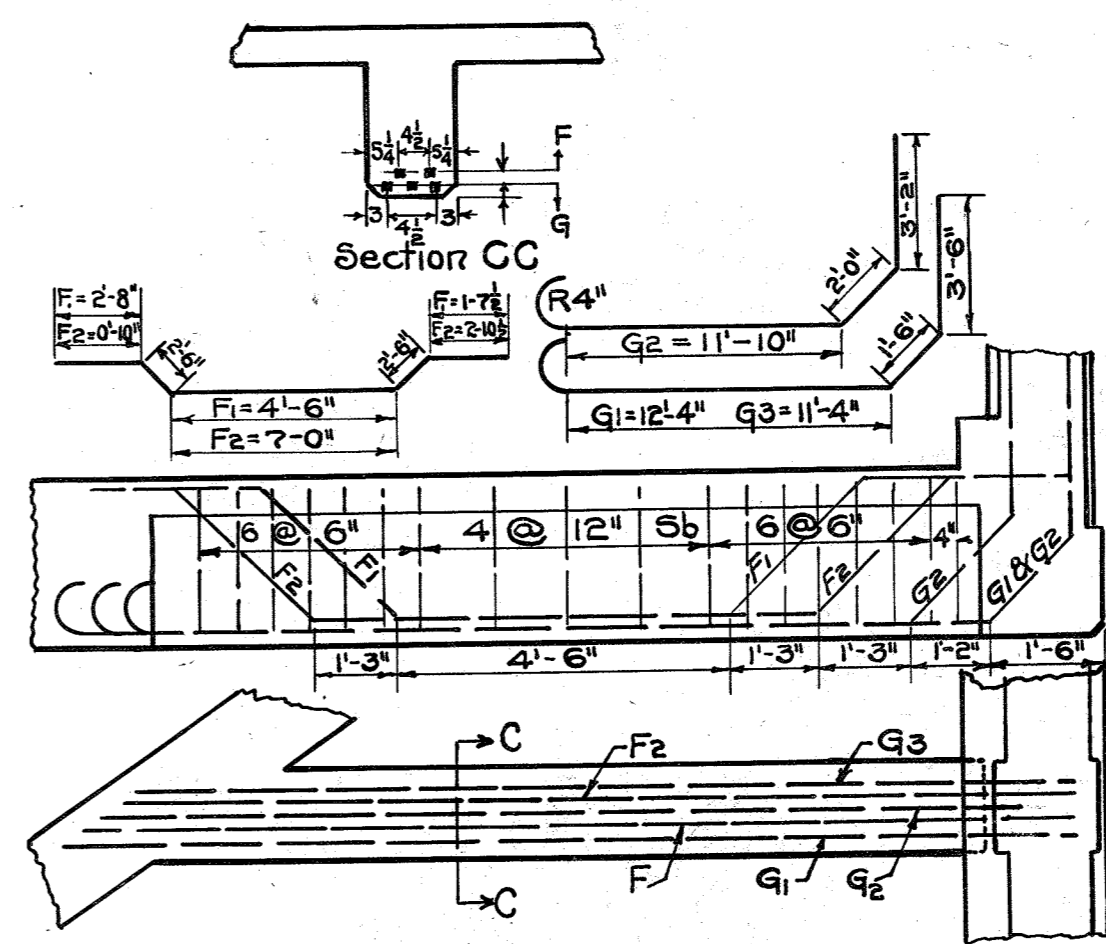
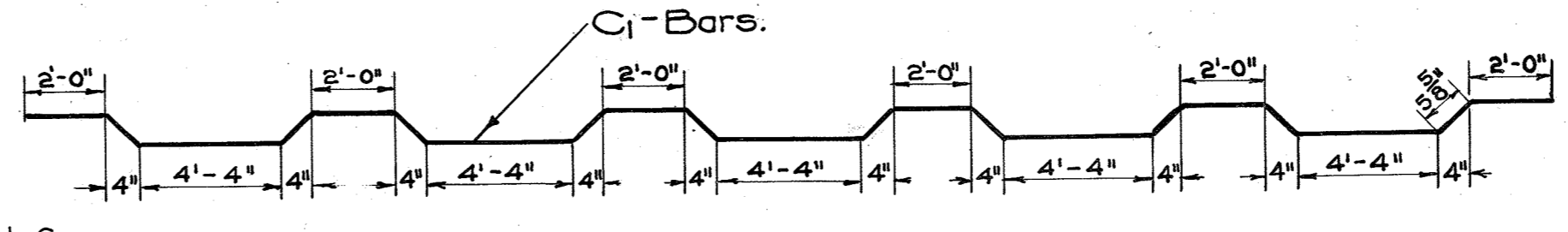
PLAN OF SUBSTRUCTURE
FOR
CONCRETE GIRDER BRIDGE
SPAN 40 FT. ROADWAY 24 FT.
Petersburg-Unity Road I.C.H. 500 Sec. B
Station 89+70
STATE OF OHIO
DEPT. HIGHWAYS & PUBLIC WORKS
DIVISION OF HIGHWAYS
FEB. 1924 BUREAU OF BRIDGES



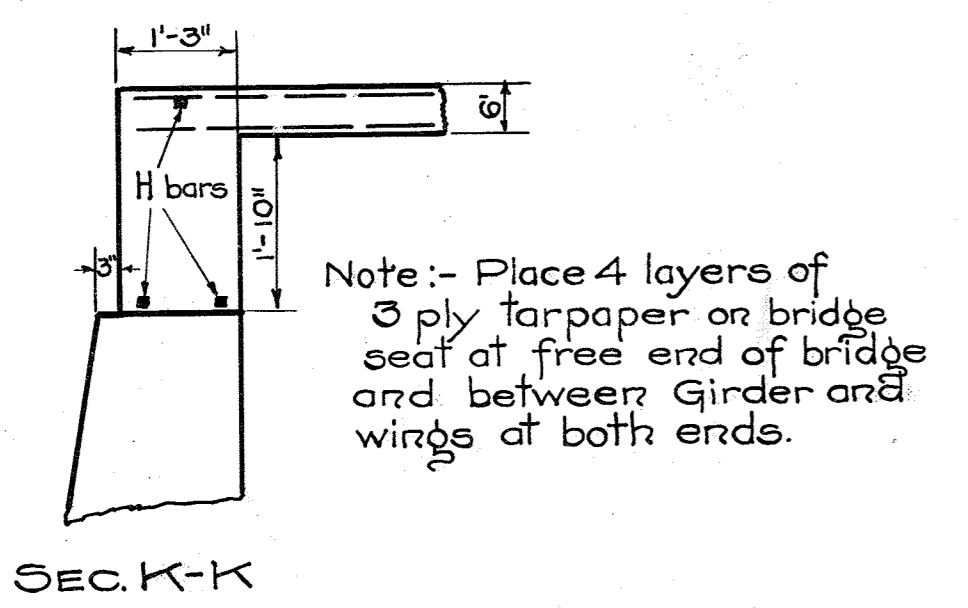
ELEVATION



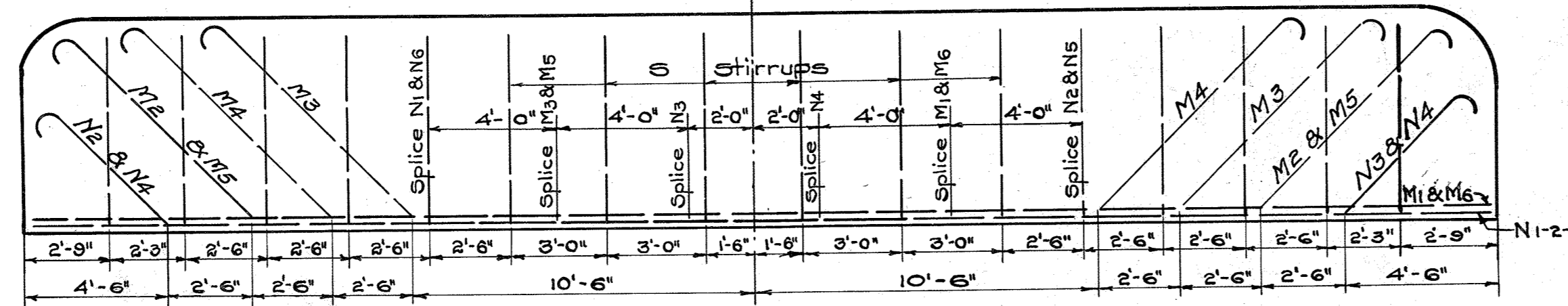
PLAN



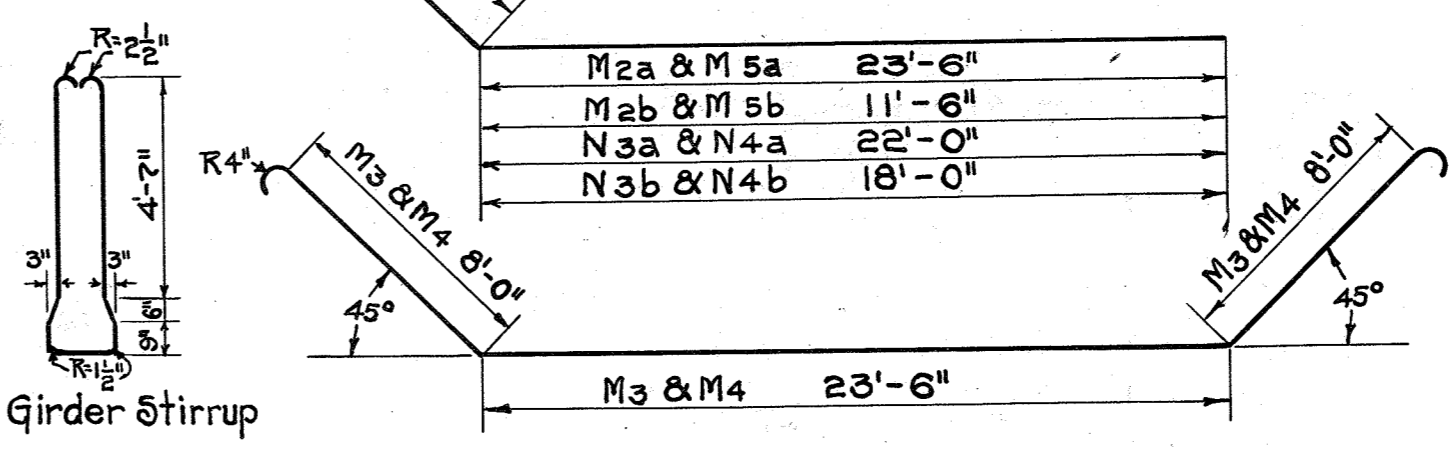
DETAIL OF BEAMS A-G



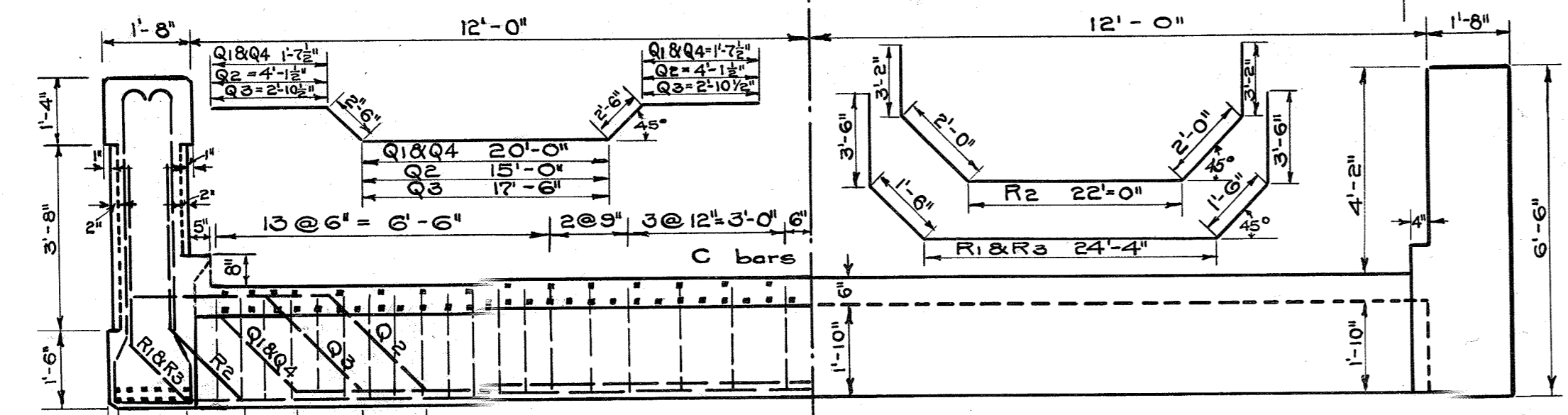
SEC. K-K



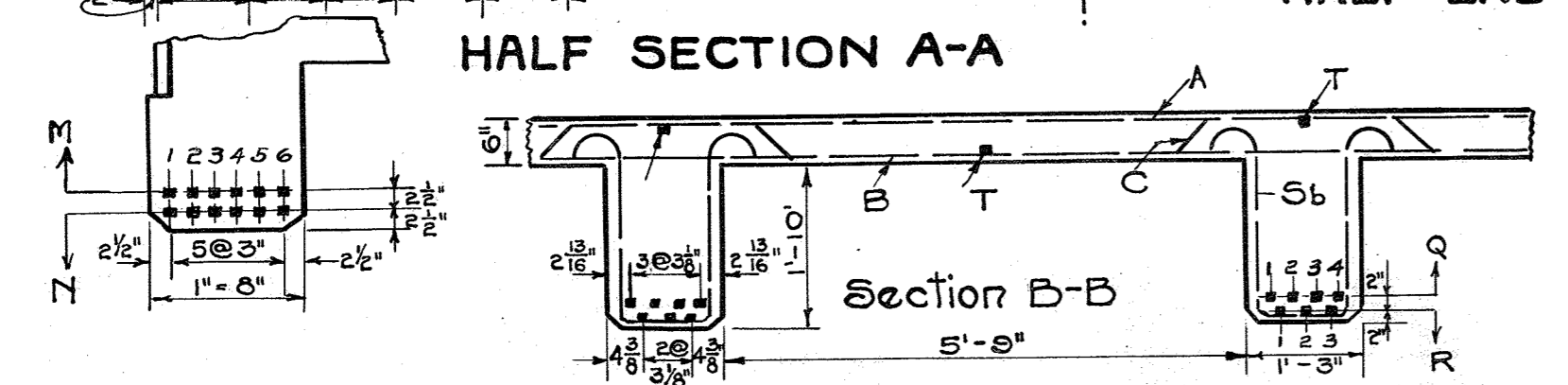
Note: All girder bars which are to be spliced are to be lapped 4'-0"



Girder Stirrup

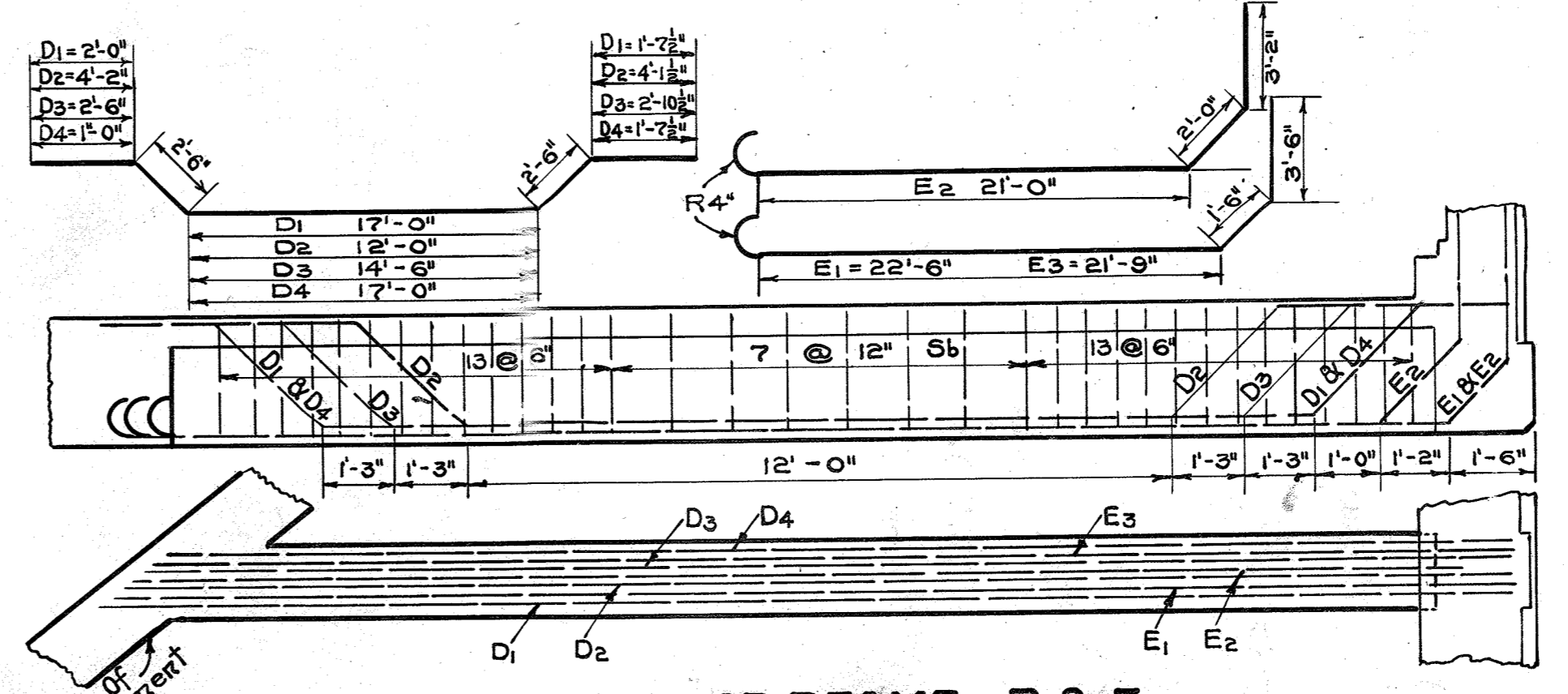


HALF END VIEW



HALF SECTION A-A

Section B-B



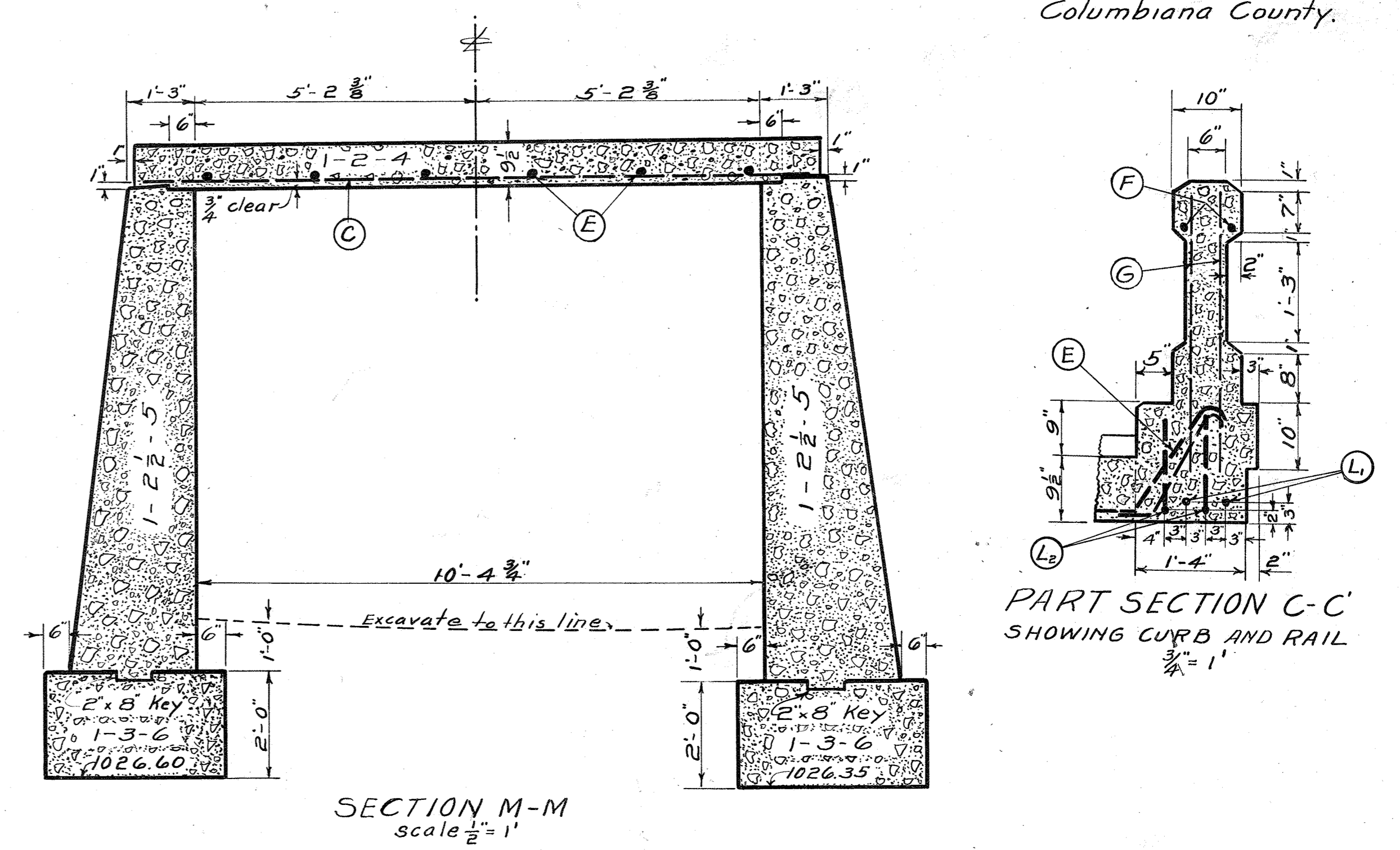
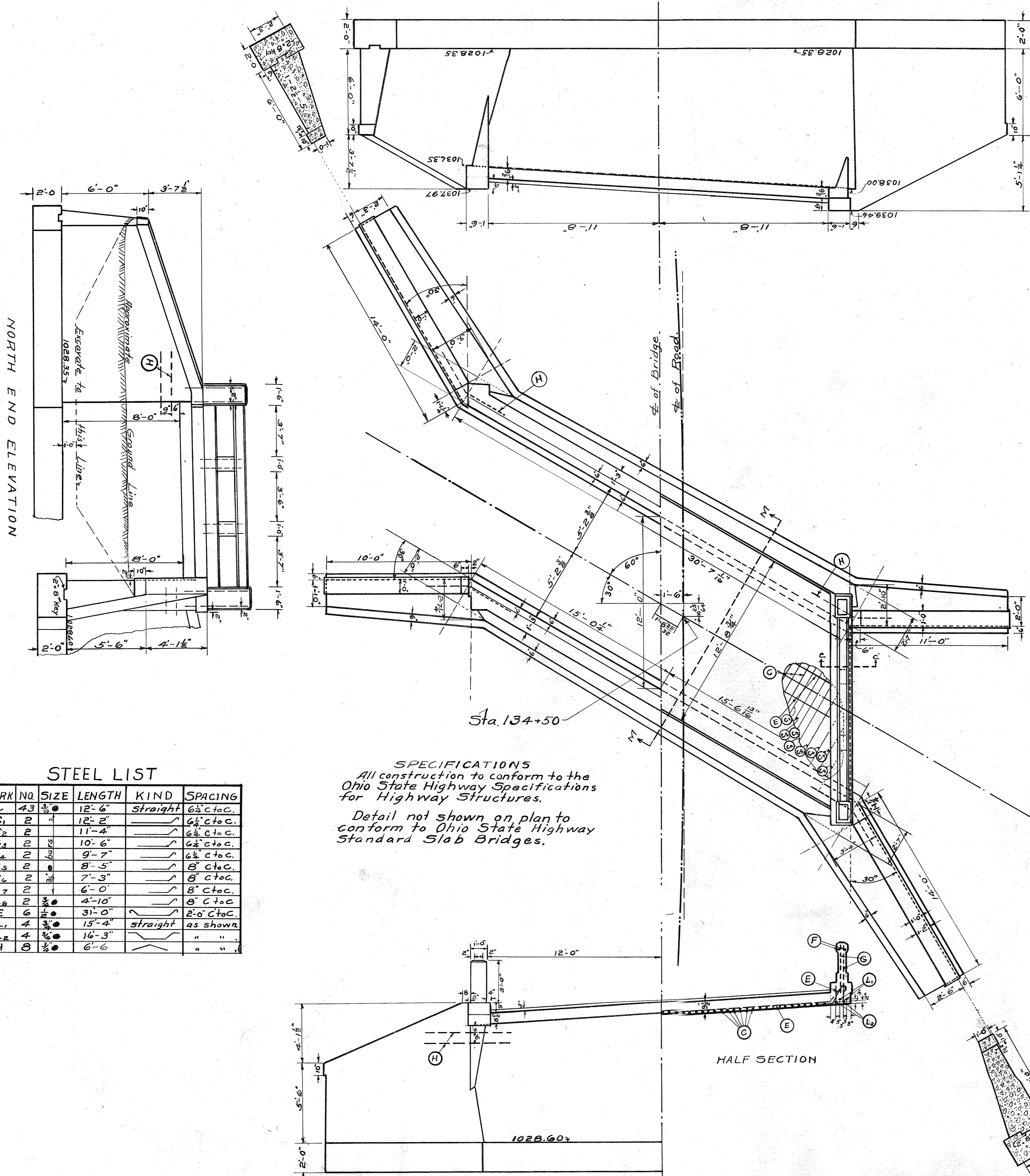
DETAIL OF BEAMS B-F

MARK	SIZE	NUMBER	LENGTH	SHAPE	WEIGHT	MARK	SIZE	NUMBER	LENGTH	SHAPE	WEIGHT
T1	1/2" Ø	7	26'-6"	Str.	121	B27	1/2" Ø	2	27'-3"	Str.	46
T2	"	2	23'-0"	"	31	B28	"	2	28'-5"	"	48
T3	"	2	18'-0"	"	24	B29	"	2	25'-0"	"	49
T4	"	2	13'-0"	"	17	B30	"	2	29'-4"	"	50
T5	"	2	8'-0"	"	11	B31	"	2	29'-7"	"	50
A1	1/2" Ø	1	25'-6"	"	22	B32	"	2	28'-11"	"	51
A2	"	2	25'-0"	"	43	C1	"	24	38'-4"	Bent	782
A3	"	2	24'-5"	"	42	C2	"	4	7'-11"	"	27
A4	"	2	23'-10"	"	41	C3	"	4	7'-4"	"	25
A5	"	2	23'-3"	"	40	C4	"	4	6'-9"	"	23
A6	"	2	22'-8"	"	39	C5	"	4	6'-2"	"	21
A7	"	2	22'-1"	"	38	C6	"	4	5'-7"	"	19
A8	"	2	21'-6"	"	37	C7	"	4	5'-0"	"	17
A9	"	2	20'-11"	"	36	C8	"	4	4'-5"	"	15
A10	"	2	20'-4"	"	35	C9	"	4	3'-10"	"	13
A11	"	2	19'-9"	"	34	C10	"	4	3'-3"	"	11
A12	"	2	19'-2"	"	33	H	"	6	29'-0"	"	116
A13	"	2	18'-7"	"	32	BEAM BARS					
A14	"	2	18'-4"	"	31	Q1	1/2" Ø	3	28'-3"	Bent	365
A15	"	2	18'-0"	"	31	Q2	"	3	28'-3"	"	365
A16	"	2	17'-9"	"	30	Q3	"	3	28'-3"	"	365
A17	"	1	16'-6"	"	16	Q4	"	3	28'-3"	"	365
A18	"	2	19'-1"	"	32	R1	"	3	34'-4"	"	443
A19	"	2	19'-8"	"	34	R2	"	3	32'-4"	"	417
A20	"	2	20'-3"	"	34	R3	"	3	34'-4"	"	443
A21	"	2	20'-10"	"	35	D1	"	2	25'-7 1/2"	"	221
A22	"	2	21'-5"	"	37	D2	"	2	25'-3 1/2"	"	219
A23	"	2	22'-0"	"	37	D3	"	2	24'-10 1/2"	"	214
A24	"	2	22'-7"	"	39	D4	"	2	24'-7 1/2"	"	212
A25	"	2	23'-1"	"	39	E1	"	2	29'-7"	"	255
A26	"	2	23'-3"	"	40	E2	"	2	28'-4"	"	244
A27	"	2	24'-3"	"	41	E3	"	2	28'-10"	"	248
A28	"	2	24'-10"	"	42	F1	1/2" Ø	2	13'-9 1/2"	"	94
A29	"	2	25'-5"	"	43	F2	"	2	15'-8 1/2"	"	107
A30	"	2	25'-8"	"	44	G1	"	2	19'-4"	"	131
A31	"	2	26'-0"	"	44	G2	"	2	19'-0"	"	129
A32	"	2	26'-4"	"	45	G3	"	2	18'-4"	"	125
B1	1/2" Ø	1	22'-0"	"	19	Sb	1/2" Ø	2	18'-2"	"	697
B2	"	2	21'-5"	"	37	GIRDER BARS					
B3	"	2	20'-10"	"	35	M1 a	1/2" Ø	2	18'-3"	Str.	124
B4	"	2	20'-3"	"	34	M1 b	"	2	30'-3"	"	206
B5	"	2	19'-8"	"	33	M2 a	"	2	32'-0"	Bent	218
B6	"	2	19'-1"	"	32	M2 b	"	2	20'-0"	"	136
B7	"	2	18'-6"	"	31	M3	"	2	41'-7"	"	283
B8	"	2	17'-11"	"	30	M4	"	2	41'-7"	"	283
B9	"	2	17'-4"	"	29	M5 a	"	2	32'-0"	"	218
B10	"	2	16'-9"	"	28	M5 b	"	2	20'-0"	"	136
B11	"	2	16'-2"	"	28	M6 a	"	2	18'-3"	Str.	124
B12	"	2	15'-7"	"	27	M6 b	"	2	30'-3"	"	206
B13	"	2	15'-0"	"	26	N1 a	"	2	14'-3"	"	97
B14	"	2	14'-9"	"	25	N1 b	"	2	24'-3"	"	233
B15	"	2	14'-5"	"	25	N2 a	"	2	14'-3"	"	97
B16	"	2	14'-2"	"	24	N2 b	"	2	34'-3"	"	233
B17	"	1	22'-0"	"	19	N3 a	"	2	27'-10"	Bent	189
B18	"	2	22'-7"	"	36	N3 b	"	2	23'-10"	"	162
B19	"	2	23'-2"	"	39	N4 a	"	2	27'-10"	"	189
B20	"	2	23'-9"	"	40	N4 b	"	2	23'-10"	"	162
B21	"	2	24'-4"	"	41	N5 a	"	2	14'-3"	Str.	97
B22	"	2	24'-11"	"	42	N5 b	"	2	34'-3"	"	233
B23	"	2	25'-6"	"	43	N6 a	"	2	14'-3"	"	97
B24	"	2	25'-8"	"	44	N6 b	"	2	34'-3"	"	233
B25	"	2	26'-8"	"	45	S1	1/2" Ø	32	14'-7"	Bent	397
Total Weight 13800											

ESTIMATED QUANTITIES
 1-2-4 Concrete 69.10 Cu. Yds.
 Reinforcing Steel 13824 Lbs.
 3" Wearing Surface (1/2-3 Cor.) 111.6 Sq. Yds.
 Surface Finish 1170 Sq. Ft.

CONCRETE GIRDER BRIDGE
 SPAN 40 FT. ROADWAY 24 FT. SKEW 35°
 OVER NORTH FORK OF LITTLE BEAVER CREEK
 PETERSBURGH-UNITY ROAD I.C.H. 500 SEC. "B"
 STA. 89+70
 STATE OF OHIO
 DEPT. OF HIGHWAYS AND PUBLIC WORKS
 DIVISION OF HIGHWAYS
 FEBRUARY 1924 BUREAU OF BRIDGES

Designed By G.R.S.

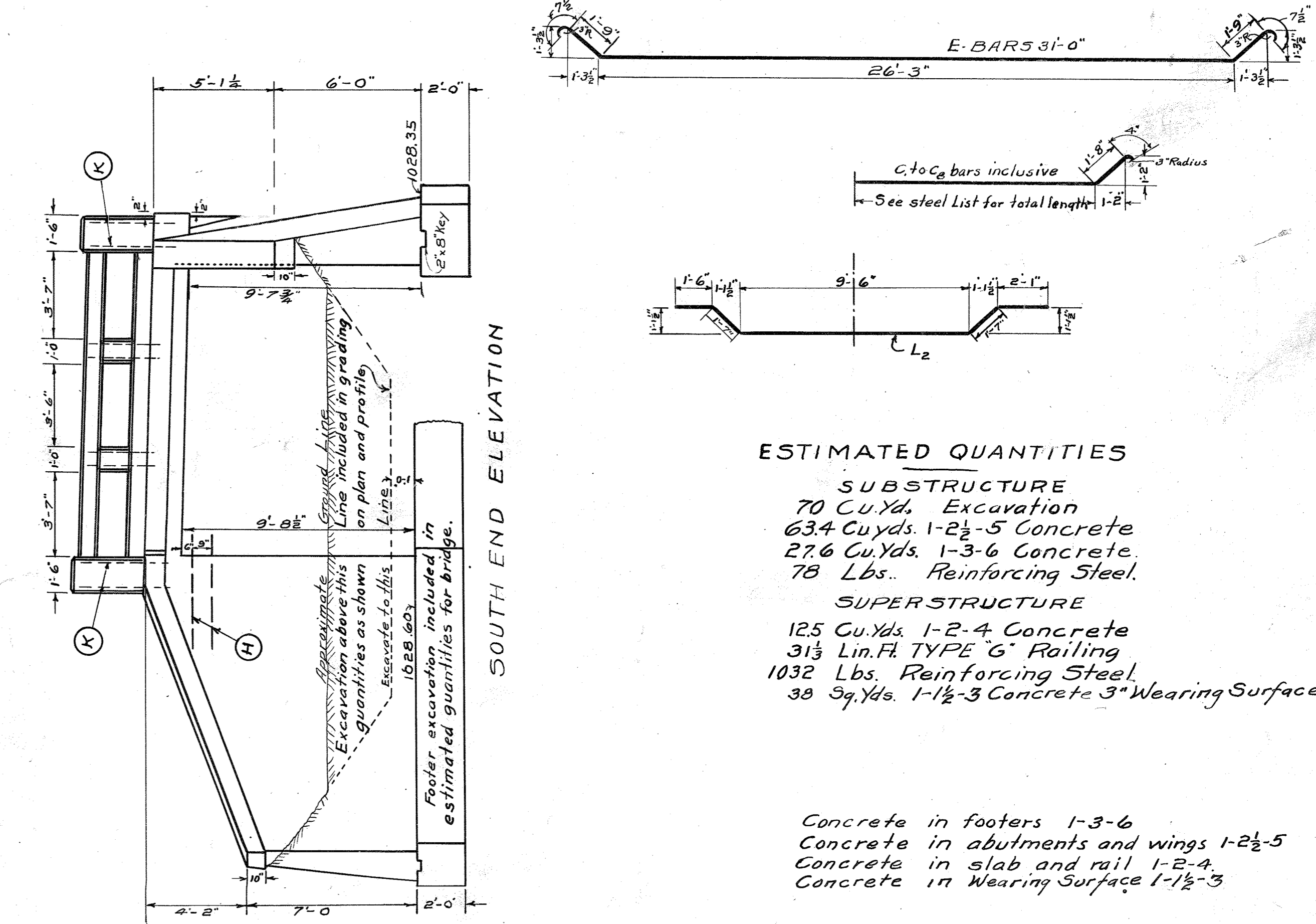


PART SECTION C-C
SHOWING CURB AND RAIL
Scale 1/4" = 1'

STEEL LIST

MARK	NO.	SIZE	LENGTH	KIND	SPACING
C	43	3/8"	12'-6"	straight	6 1/2" cto c.
C1	2	1/2"	12'-2"		6 1/2" cto c.
C2	2	1/2"	11'-4"		6 1/2" cto c.
C3	2	1/2"	10'-6"		6 1/2" cto c.
C4	2	1/2"	9'-7"		6 1/2" cto c.
C5	2	1/2"	8'-5"		8" cto c.
C6	2	1/2"	7'-3"		8" cto c.
C7	2	1/2"	6'-0"		8" cto c.
C8	2	1/2"	4'-10"		8" cto c.
E	6	1/2"	31'-0"		2'-0" cto c.
L1	4	1/2"	15'-4"	straight	as shown
L2	4	1/2"	16'-3"	"	"
H	8	1/2"	6'-6"	"	"

SPECIFICATIONS
All construction to conform to the Ohio State Highway Specifications for Highway Structures.
Detail not shown on plan to conform to Ohio State Highway Standard Slab Bridges.



ESTIMATED QUANTITIES
SUBSTRUCTURE
70 Cu.Yd. Excavation
63.4 Cu.Yds. 1-2 1/2-5 Concrete
27.6 Cu.Yds. 1-3-6 Concrete
78 Lbs. Reinforcing Steel.
SUPERSTRUCTURE
12.5 Cu.Yds. 1-2-4 Concrete
31 1/2 Lin.Ft. TYPE 'G' Railing
1032 Lbs. Reinforcing Steel
38 Sq.Yds. 1-1/2-3 Concrete 3" Wearing Surface.

Concrete in footers 1-3-6
Concrete in abutments and wings 1-2 1/2-5
Concrete in slab and rail 1-2-4
Concrete in Wearing Surface 1-1/2-3

CONCRETE SLAB BRIDGE
- COUNTY BRIDGE NO. 9 -
- STA. 134 + 50 -
SPAN 12 FT ROADWAY 24 FT.
Scale 1/4" = 1'

Drainage Area - 1.7 Sq. mi.

SUMMARY OF QUANTITIES

STATION	TYPE	SIZE	LENGTH	EXC. PAV. TYP.	CHANNEL EXC. CU.YDS.	CONCRETE			REIN. STEEL LBS.	V.I.T. PIPE				C.I. PIPE		Cor. I.P. Pipe 12" LIN. FT.	Cor. I.P. Pipe 24" LIN. FT.	Conc. 1-1/2" Surface Finish Sq. Yds.	Rubbed	REMARKS	
						1-2-4 CU.YDS.	1-2-5 CU.YDS.	1-3-6 CU.YDS.		12" LIN. FT.	15" LIN. FT.	24" LIN. FT.	12" LIN. FT.	18" LIN. FT.							
STRUCTURES 20' SPAN AND UNDER																					
88+34	Side Road	12"	24'	3																Build New 12" Cor. I.P. Culvert. No Head Walls.	
98+75	V.P. Enc.	24"	32'	9		3.5		6.2	105				32							Build New Std. V.P. Encased Culvert. Remove Old H. Walls.	
109+20	Side Road	18"	24'	7		3.3			55											Relay Cor. I.P. & Build Std. Sideroad Cul. Head walls.	
115+40	Conc. Box	4'x4'	34'	23		23.1			1005											Build New Std. 4'x4' Conc. Box Cul. Remove Present Cul.	
134+50	Slab Top	24" Rd. W.	12' Span	70		12.5	63.4	276	1110	31 1/3										Build New Standard Slab Bridge	
135+40	Side Road	24"	24'	6																Build New 24" Cor. I.P. Cul. No Headwalls.	
142+50	C.I. Pipe	18"	36'	5	2	1.9			50											Relay 18" Cor. I.P. From Sta. 148+25 and 18" of 18" C.I.P. From Sta. 151+49. Build Std. H. Walls.	
148+44	C.I. Pipe	12"	36'	4	7	1.3			40					36						Relay 18" of 12" C.I.P. and extend with 18" of 12" C.I.P. From right of sta. 155+00. Build Std. H. Walls.	
151+49	V.P. Enc.	15"	36'	3		2.3		4.4	70				36							Build New Std. V.P. Enc. Culvert Remove Pres. Pipe	
TOTAL OF QUANTITIES				130	9	47.9	63.4	38.2	2435	31 1/3			36	32	36	36	24	24	24		
STRUCTURES OVER 20'																					
89+70	Con. Girder	24" Rd. W.	40' span	140	150	69.1	142.1	41.9	13944											Build New Std. 40' Con. Girder Br. (Remove Old Bridge)	
TOTAL OF QUANTITIES				140	150	69.1	142.1	41.9	13944												111.6 1170
STRUCTURES FOR PRIVATE DRIVES																					
84+73	Cor. I. Pipe	12"		2																Private Drive Rt. No Headwalls	
87+80	" " "	12"		2																" " " " "	
103+90	" " "	12"		2																" " " " "	
105+52	" " "	12"		5																Relay 30' of 12" Cor. I.P. Private Dr. Rt. No. H. W.	
106+00	" " "	12"		2																Private Drive Lft. No Headwalls	
116+70	" " "	12"		2																" " " " "	
121+05	" " "	12"		2																" " Rt. " "	
126+88	" " "	12"		2																" " " " "	
TOTAL OF QUANTITIES				19																	30 98

CONCRETE SECTION ESTIMATED QUANTITIES
 Length = 7132 Lin. Ft. = 1.351 Miles.
 Excavation = 13245 Cu. Yds.
 Berms and Ditches 7072 Lin. Ft.
 Plain Concrete 16ft. wide 12911 Sq. Yds.

Note:- Excavation determined from macadam section.
 For Concrete Section lower grade line 20' 880 Sq. Ft. per section leaving excavation (unclassified)
 Length of cut 2350 ft. same as for Type 'A'
 $2350 \times \frac{38}{27} = 3283$ CU. Yds.
 $13245 - 3283 = 9962$ CU. Yds.

BITUMINOUS MACADAM ESTIMATED QUANTITIES
 Length = 7132 Lin. ft. = 1.351 Miles.
 Berms and Ditches 7072 Lin. Ft.
 3" Bit. Mac. Top Course 16' wide = 12911 Sq. Yds.
 3" W. B. Mac. 2nd Course 17' wide = 13697 Sq. Yds.
 6" Base Course Stone or Slag 17' wide 13697 Sq. Yds.
 Excavation 13245 Cu. Yds.