

FED AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	533B	1928

1  
19

Rec 3/9/28  
" 3/2/28

S.H.(I.C.H)343. SEC. E-1  
HOLMES COUNTY

STATE OF OHIO

DEPARTMENT - OF - HIGHWAYS  
COSHOCOTON - MILLERSBURG ROAD

S.H.(I.C.H) NO. 343

SEC. E-1

PET. NO. 6093

HOLMES

COUNTY

MECHANIC TOWNSHIP

DEC. 1927

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 plan and estimates.

Approved: Karl Snyder  
Date, 3-5-28 Resident District Deputy Director

Approved: Walter G. Smith  
Date, 3-6-28 Resident Division Deputy Director

Approved: Robert A. Reigatta  
Date, 3/6/28 Chief Engineer  
Bureau of Construction

Approved: \_\_\_\_\_  
Date, \_\_\_\_\_ Chief Engineer  
Bureau of Maintenance

Approved: J. R. Burkey  
Date, 3/13/28 Chief Engineer  
Bureau of Bridges

Approved: Harry J. Kirk  
Date, 3-8-28 Chief Highway Engineer.

Approved: G. F. Bluminger  
Date, 3/8/28 Director of Highways

Recommended for Approval: \_\_\_\_\_  
Date, \_\_\_\_\_ District Engineer  
Bureau of Public Roads

Recommended for Approval: \_\_\_\_\_  
Date, \_\_\_\_\_ Chief Engineer  
Bureau of Public Roads

Approved: \_\_\_\_\_  
Date, \_\_\_\_\_ Chief of Bureau

CONVENTIONAL SIGNS

State Line	-----
County Line	-----
Township Line	-----
Section Line	-----
Property Line not fenced	-----
Center Line	-----
City or Village Line	-----
Fence	-----
Telephone or Telegraph	T T T T
Steam Railroad	-----
Electric Line	-----
Guard Rail	-----
Drain Pipe - new	-----
Drain Pipe - old	-----

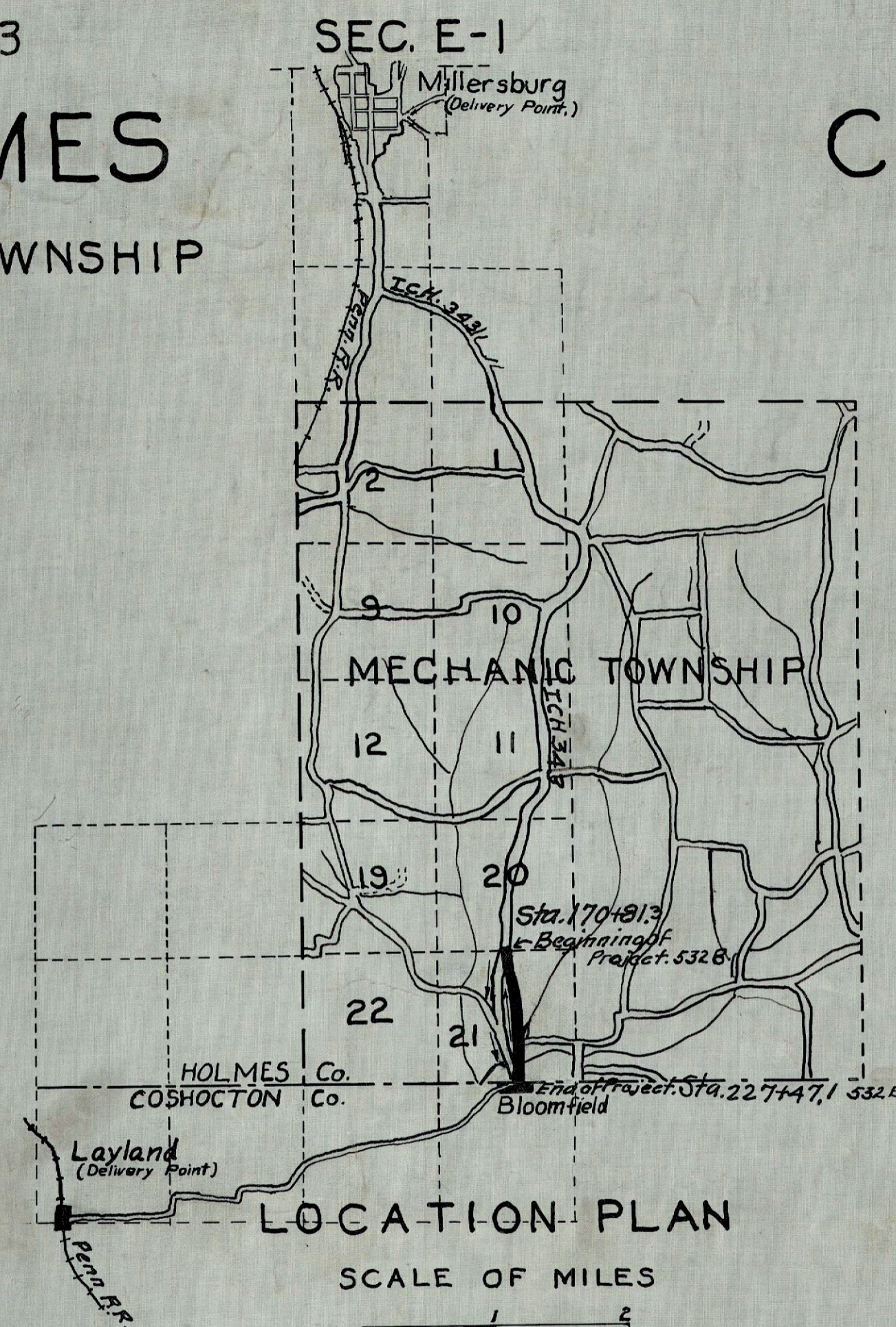
We, the Commissioners of Holmes County, hereby approve these plans and certify that the right-of-way 60 feet wide is available for the construction, maintenance and repair of the above highway.

J. A. Mullet

H. H. Allison

E. W. Hanna

Date, 3-7-1928 County Commissioners.



PORTION TO BE IMPROVED  
DETOURS SHOWN THUS  
LENGTH OF IMPROVEMENT 5670.6 FT.  
1.074 MILES

SCALES

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

INDEX

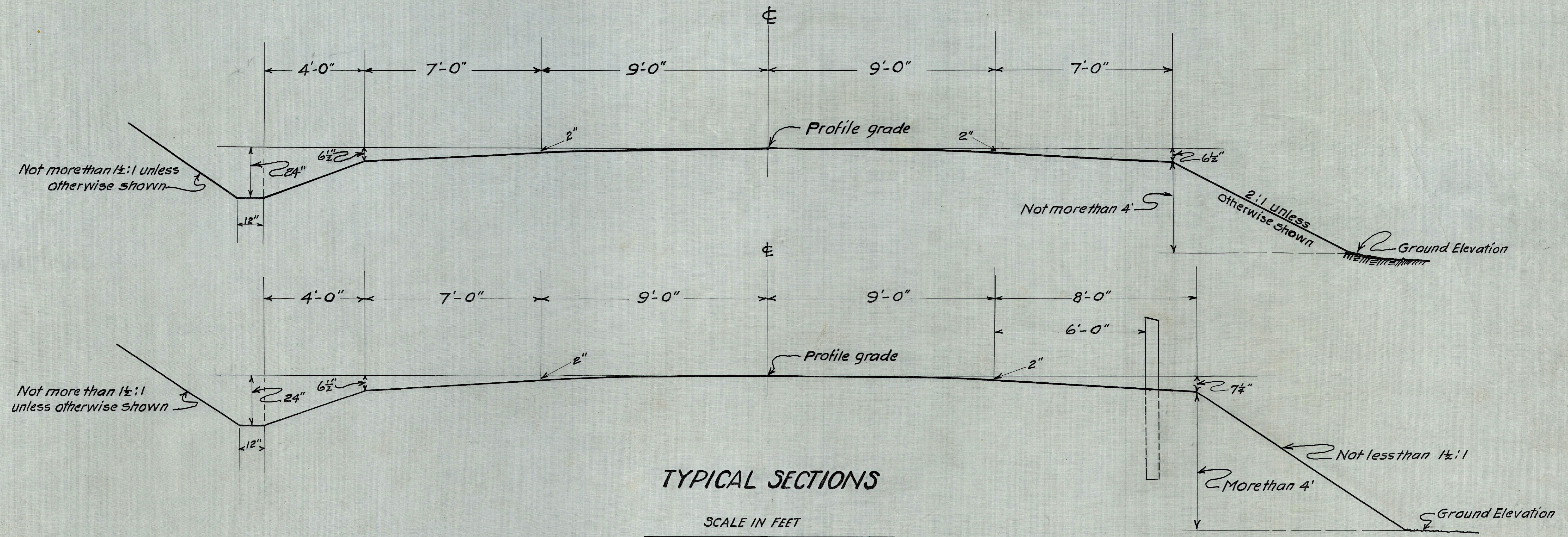
Title Page	p. 1
Typical Cross Section	p. 2
Plans and Profile	p. 3-4
Cross Sections	p. 4-13
Structural Plans	p. 14-18
Summary Sheet	p. 19

SUPPLEMENTAL PRINTS OF STRUCTURAL STANDARDS

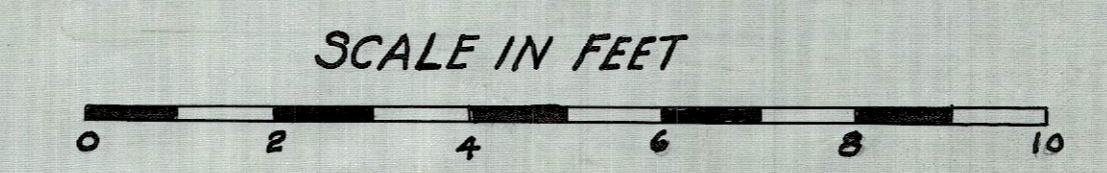
Drawing Number	300
"	106 Const.
"	RR-A
"	SB 2430
"	Sc 115-24-2



TYPE - GRADING<sup>3/4</sup> DRAINAGE STRUCTURES



TYPICAL SECTIONS

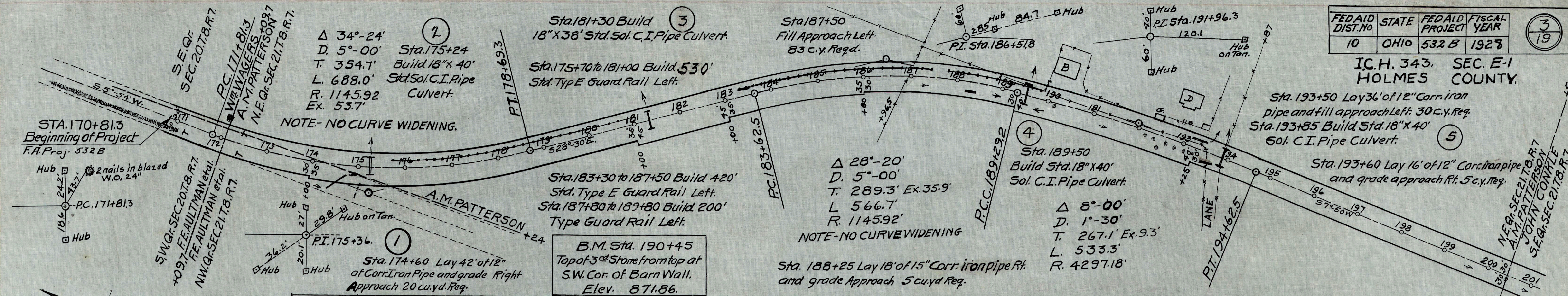


Note Pavement on all curves will be superelevated  
see tables on alignment sheets



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IC.H. 343. SEC. E-1  
HOLMES COUNTY.



LEFT	0.054	RIGHT
Edge of Pav.	Width Station Grade Elev.	Width Edge of Pav.
942.14	9' 170+81.3 942.31	9' 942.14
940.93	9' 171+00 941.10	9' 941.05
939.30	9' 171+25 939.47	9' 939.58
937.71	9' 171+50 937.88	9' 938.15
936.18	9' 171+75 936.35	9' 936.78
935.87	9' 171+81.3 936.04	9' 936.52
934.69	9' 172+00 934.86	9' 935.47
933.26	9' 172+25 933.43	9' 934.19
932.90	9' 172+50 933.07	9' 933.87
931.87	9' 172+75 932.04	9' 932.84
930.52	9' 173+00 930.69	9' 931.49
929.23	9' 173+25 929.40	9' 930.20
927.99	9' 173+50 928.16	9' 928.96
926.82	9' 173+75 926.99	9' 927.79
925.68	9' 174+00 925.85	9' 926.65
924.59	9' 174+25 924.76	9' 925.56
923.55	9' 174+50 923.72	9' 924.52
922.56	9' 174+75 922.73	9' 923.53
921.62	9' 175+00 921.79	9' 922.59
920.73	9' 175+25 920.90	9' 921.70
919.87	9' 175+50 920.04	9' 920.84

LEFT	0.054	RIGHT
Edge of Pav.	Width Station Grade Elev.	Width Edge of Pav.
919.08	9' 175+50 919.25	9' 920.05
918.30	9' 175+75 918.47	9' 919.27
917.53	9' 176+00 917.70	9' 918.50
916.75	9' 176+25 916.92	9' 917.72
915.98	9' 176+50 916.15	9' 916.95
915.20	9' 176+75 915.37	9' 916.17
914.43	9' 177+00 914.60	9' 915.40
913.66	9' 177+25 913.83	9' 914.63
912.92	9' 177+50 913.09	9' 913.89
912.19	9' 177+75 912.36	9' 913.16
911.48	9' 178+00 911.65	9' 912.45
910.75	9' 178+25 910.95	9' 911.71
910.12	9' 178+50 910.29	9' 910.90
909.47	9' 178+75 909.64	9' 910.32
908.83	9' 179+00 909.00	9' 909.68
908.20	9' 179+25 908.37	9' 909.05
907.58	9' 179+50 907.75	9' 908.43
907.10	9' 179+69.3 907.27	9' 907.10

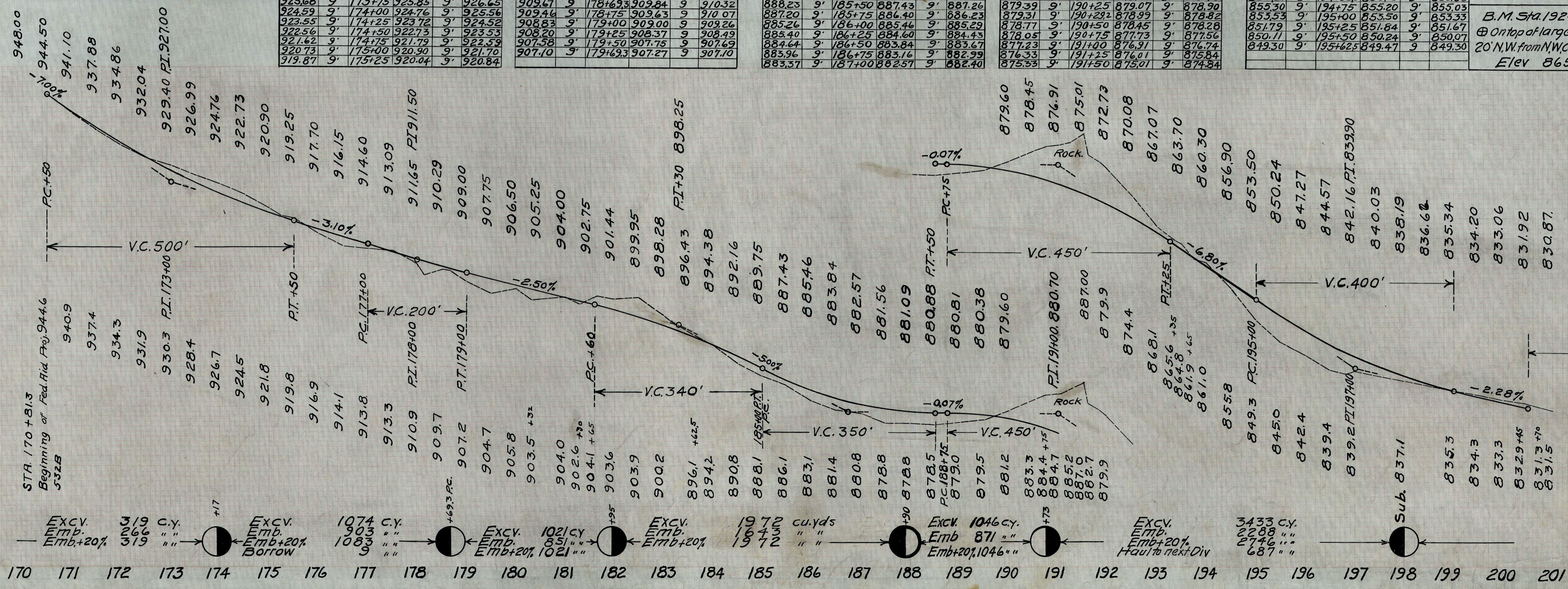
LEFT	0.054	RIGHT
Edge of Pav.	Width Station Grade Elev.	Width Edge of Pav.
899.39	9' 182+62.5 899.56	9' 899.39
898.94	9' 182+75 899.03	9' 898.86
898.35	9' 183+00 898.28	9' 898.11
897.60	9' 183+25 897.36	9' 897.19
896.82	9' 183+50 896.43	9' 896.26
896.41	9' 183+62.5 895.94	9' 895.77
895.99	9' 183+75 895.43	9' 895.26
895.10	9' 184+00 894.38	9' 894.21
894.64	9' 184+12.5 893.84	9' 893.67
894.10	9' 184+25 893.30	9' 893.13
892.96	9' 184+50 892.16	9' 891.99
891.78	9' 184+75 890.98	9' 890.81
890.55	9' 185+00 889.75	9' 889.58
889.34	9' 185+25 888.54	9' 888.37
888.23	9' 185+50 887.43	9' 887.26
887.20	9' 185+75 886.40	9' 886.23
885.26	9' 186+00 885.46	9' 885.29
885.40	9' 186+25 884.60	9' 884.43
884.64	9' 186+50 883.84	9' 883.67
883.96	9' 186+75 883.16	9' 882.99
883.37	9' 187+00 882.57	9' 882.40

LEFT	0.054+0.027	RIGHT
Edge of Pav.	Width Station Grade Elev.	Width Edge of Pav.
882.86	9' 187+25 882.06	9' 881.89
882.46	9' 187+50 881.66	9' 881.49
881.13	9' 187+75 881.33	9' 881.16
881.89	9' 188+00 881.09	9' 880.92
881.73	9' 188+25 880.93	9' 880.76
881.68	9' 188+50 880.88	9' 880.71
881.66	9' 188+75 880.86	9' 880.69
881.65	9' 188+92 880.85	9' 880.68
881.44	9' 189+00 880.81	9' 880.64
881.13	9' 189+25 880.63	9' 880.46
881.07	9' 189+50 880.60	9' 880.43
880.72	9' 189+75 880.38	9' 880.21
880.36	9' 189+92 880.04	9' 879.87
879.92	9' 190+00 879.60	9' 879.43
879.39	9' 190+25 879.07	9' 878.90
879.31	9' 190+29.2 878.99	9' 878.82
878.77	9' 190+50 878.45	9' 878.28
878.05	9' 190+75 877.73	9' 877.56
877.23	9' 191+00 876.91	9' 876.74
876.33	9' 191+25 876.01	9' 875.84
875.33	9' 191+50 875.01	9' 874.84

LEFT	0.027	RIGHT
Edge of Pav.	Width Station Grade Elev.	Width Edge of Pav.
874.24	9' 191+75 873.92	9' 873.75
873.05	9' 192+00 872.73	9' 872.56
872.77	9' 192+25 871.45	9' 871.28
870.40	9' 192+50 870.08	9' 869.91
868.93	9' 192+75 868.61	9' 868.44
867.39	9' 193+00 867.07	9' 866.90
865.72	9' 193+25 865.40	9' 865.23
864.02	9' 193+50 863.70	9' 863.53
862.32	9' 193+75 862.00	9' 861.83
860.62	9' 194+00 860.30	9' 860.13
859.77	9' 194+25 859.45	9' 859.28
858.88	9' 194+50 858.60	9' 858.43
857.10	9' 194+75 856.90	9' 856.73
856.21	9' 194+92 856.05	9' 855.88
855.30	9' 194+95 855.20	9' 855.03
853.53	9' 195+00 853.50	9' 853.33
851.79	9' 195+25 851.84	9' 851.67
850.11	9' 195+50 850.24	9' 850.07
849.30	9' 195+62.5 849.47	9' 849.30

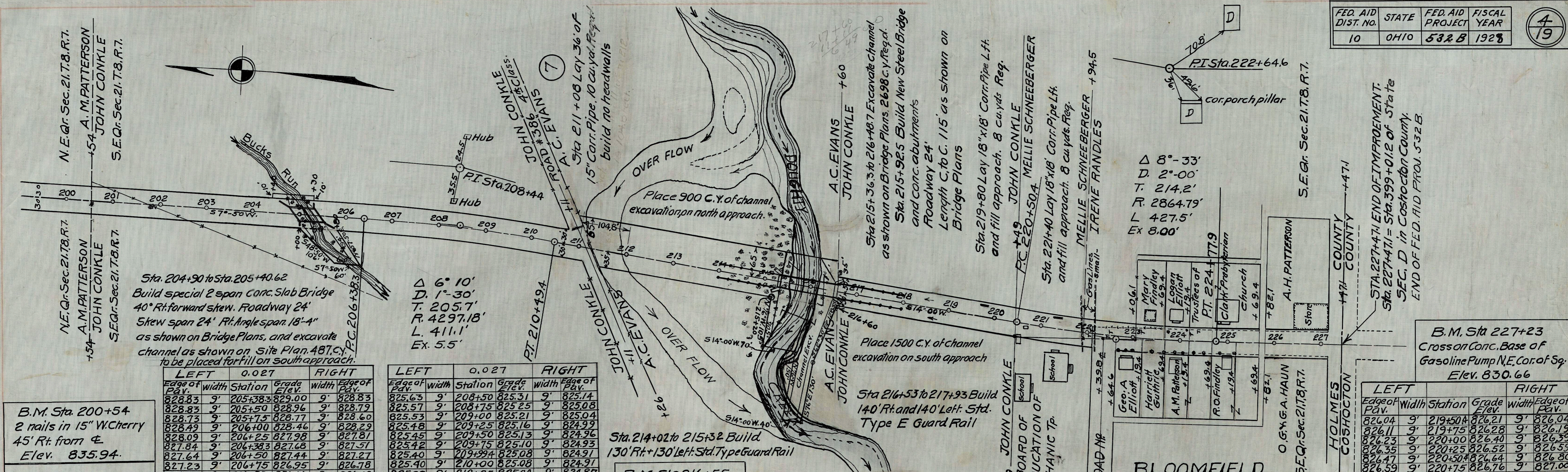
B.M. Sta. 172+07  
2 bolts in blazed W.Oak  
38' Left from centerline  
Elev. 931.40

B.M. Sta. 192+50  
On top of large Rock  
20' N.W. from N.W. Cor. of House  
Elev. 865.95



Station	Excavation	Embankment	Notes
170	319	319	
171	266	319	
172	266	319	
173	1074	903	
174	1083	903	
175	1021	851	
176	1021	851	
177	1972	1672	
178	1972	1672	
179	1046	871	
180	1046	871	
181	1046	871	
182	1046	871	
183	1046	871	
184	1046	871	
185	1046	871	
186	1046	871	
187	1046	871	
188	1046	871	
189	1046	871	
190	1046	871	
191	1046	871	
192	1046	871	
193	1046	871	
194	1046	871	
195	1046	871	
196	1046	871	
197	1046	871	
198	1046	871	
199	1046	871	
200	1046	871	
201	1046	871	





**B.M. Sta. 200+54**  
2 nails in 15" W. Cherry  
45' Rt. from  $\pm$   
Elev. 835.94.

**B.M. Sta. 204+20**  
2 nails in 24" Sycamore  
60ft. Left from  $\pm$   
Elev. 824.49

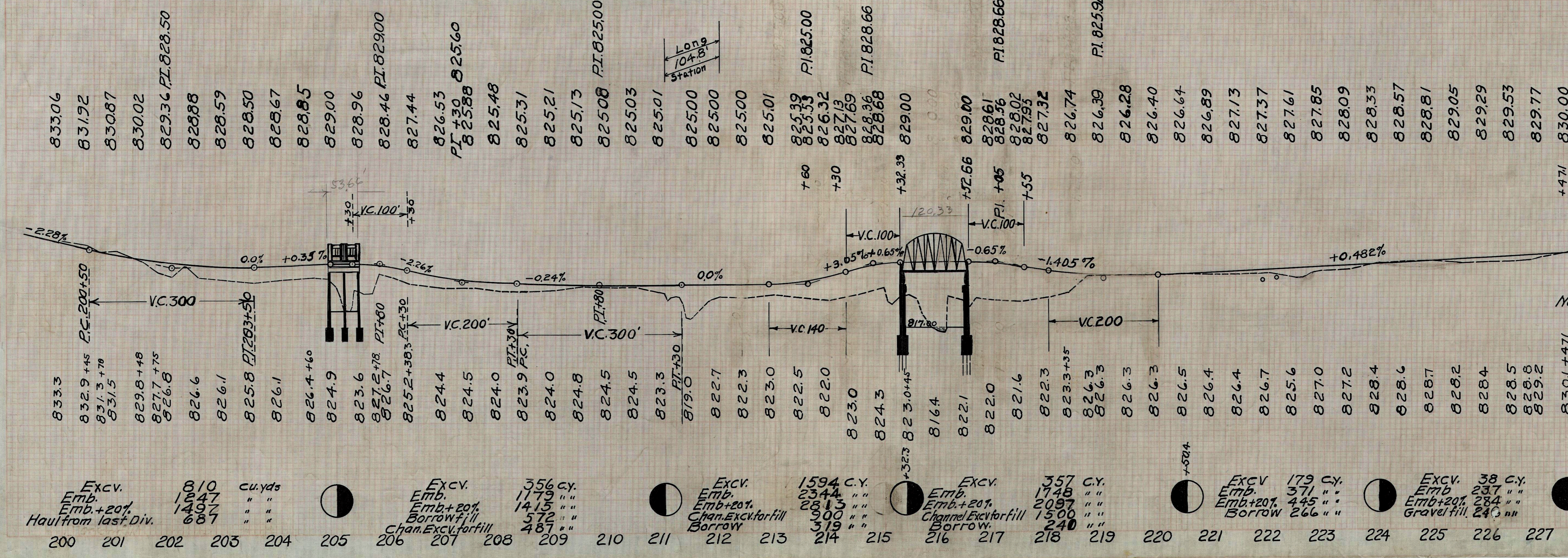
LEFT		0.027		RIGHT	
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.
828.83	9'	205+38.3	829.00	9'	828.83
828.83	9'	205+50	828.96	9'	828.79
828.73	9'	205+75	828.77	9'	828.60
828.49	9'	206+100	828.46	9'	828.29
828.09	9'	206+25	827.98	9'	827.81
827.84	9'	206+38.3	827.68	9'	827.57
827.64	9'	206+50	827.44	9'	827.27
827.23	9'	206+75	826.95	9'	826.78
826.98	9'	206+88.3	826.66	9'	826.49
826.85	9'	207+100	826.53	9'	826.36
826.49	9'	207+25	826.17	9'	826.00
826.20	9'	207+50	825.88	9'	825.71
825.96	9'	207+75	825.64	9'	825.47
825.80	9'	208+00	825.48	9'	825.31
825.69	9'	208+25	825.37	9'	825.20

LEFT		0.027		RIGHT	
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.
825.63	9'	208+50	825.31	9'	825.14
825.57	9'	208+75	825.25	9'	825.08
825.53	9'	209+00	825.21	9'	825.04
825.48	9'	209+25	825.16	9'	824.99
825.45	9'	209+50	825.13	9'	824.96
825.42	9'	209+75	825.10	9'	824.93
825.40	9'	209+99.4	825.08	9'	824.91
825.40	9'	210+00	825.08	9'	824.91
825.28	9'	210+25	825.04	9'	824.87
825.19	9'	210+49.4	825.03	9'	824.86
825.10	9'	210+75	825.02	9'	824.85
825.00	9'	211+00	825.00	9'	824.84
824.91	9'	211+25	825.00	9'	824.83
824.83	9'	211+49.4	825.00	9'	824.83

**B.M. Sta. 216+55**  
2 nails in 36" Elm  
50' Left from  $\pm$   
Elev. 825.45

**B.M. Sta. 221+30**  
Top N.E. Cor. of Conc. Landing at E.  
Entrance of School Bldg, Elev. 828.70

LEFT		0.027		RIGHT	
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.
826.04	9'	219+50.4	826.21	9'	826.04
826.11	9'	219+75	826.28	9'	826.19
826.23	9'	220+00	826.40	9'	826.39
826.35	9'	220+25	826.52	9'	826.59
826.47	9'	220+50.4	826.64	9'	826.80
826.59	9'	220+75	826.76	9'	827.00
826.72	9'	221+00	826.89	9'	827.21
826.84	9'	221+25	827.01	9'	827.33
826.96	9'	221+50	827.13	9'	827.45
827.08	9'	221+75	827.25	9'	827.57
827.20	9'	222+00	827.37	9'	827.69
827.32	9'	222+25	827.49	9'	827.81
827.44	9'	222+50	827.61	9'	827.93
827.51	9'	222+75	827.73	9'	828.05
827.68	9'	223+00	827.85	9'	828.17
827.80	9'	223+25	827.97	9'	828.29
827.92	9'	223+50	828.09	9'	828.41
828.04	9'	223+75	828.21	9'	828.53
828.16	9'	224+00	828.33	9'	828.65
828.27	9'	224+25	828.46	9'	828.76
828.40	9'	224+50	828.57	9'	828.88
828.54	9'	224+75	828.71	9'	828.87
828.64	9'	225+00	828.81	9'	828.89
828.76	9'	225+25	828.93	9'	828.93
828.88	9'	225+50	829.05	9'	828.97
829.01	9'	225+75	829.18	9'	829.01



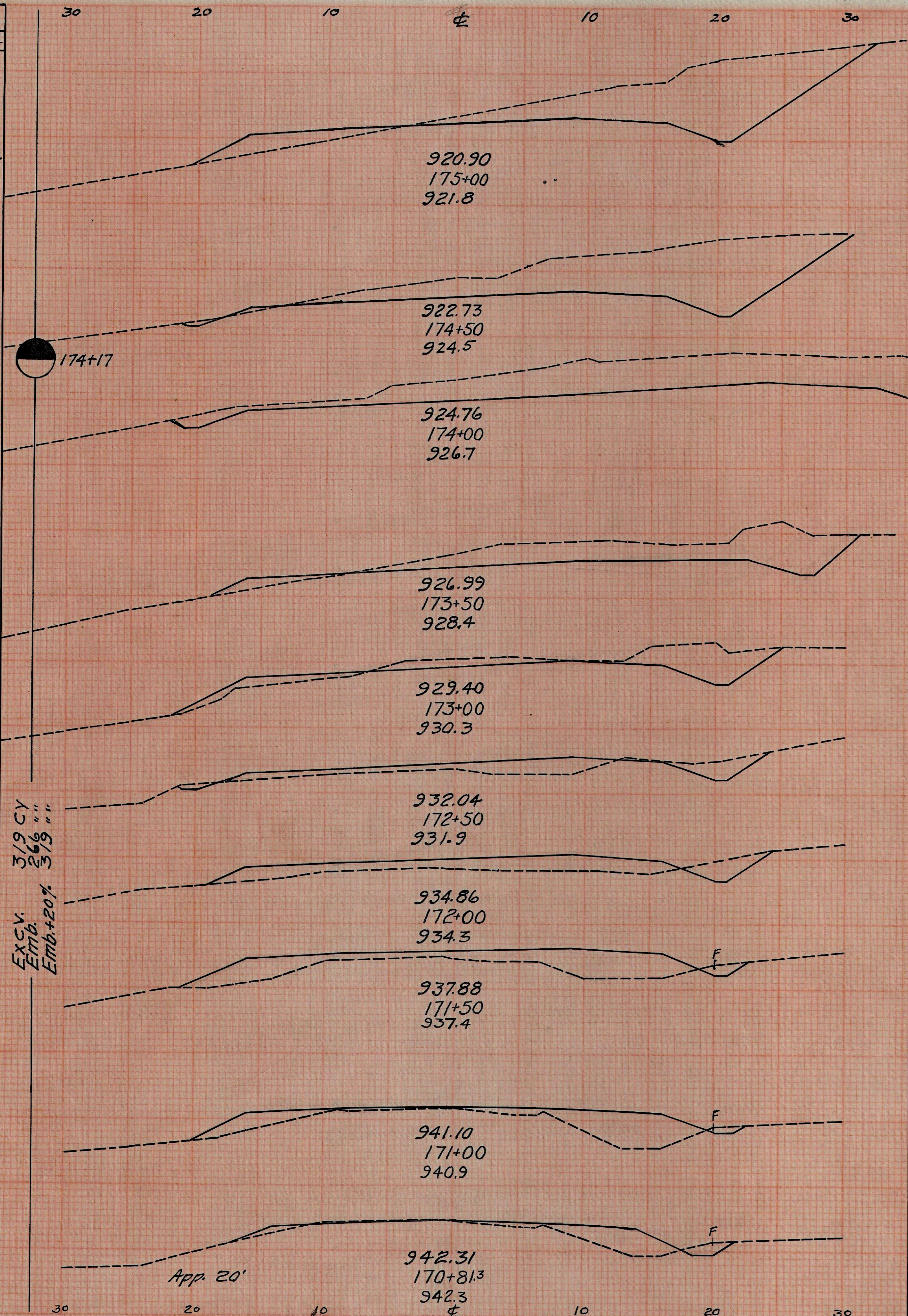
Station	Excav. cu. yds.	Emb. cu. yds.	Excav. cu. yds.	Emb. cu. yds.	Excav. cu. yds.	Emb. cu. yds.	Excav. cu. yds.	Emb. cu. yds.
200								
201								
202								
203								
204								
205								
206								
207								
208								
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222								
223								
224								
225								
226								
227								

Note - Elev. 830.00 = Elev. 830.50 on SEC. "D"

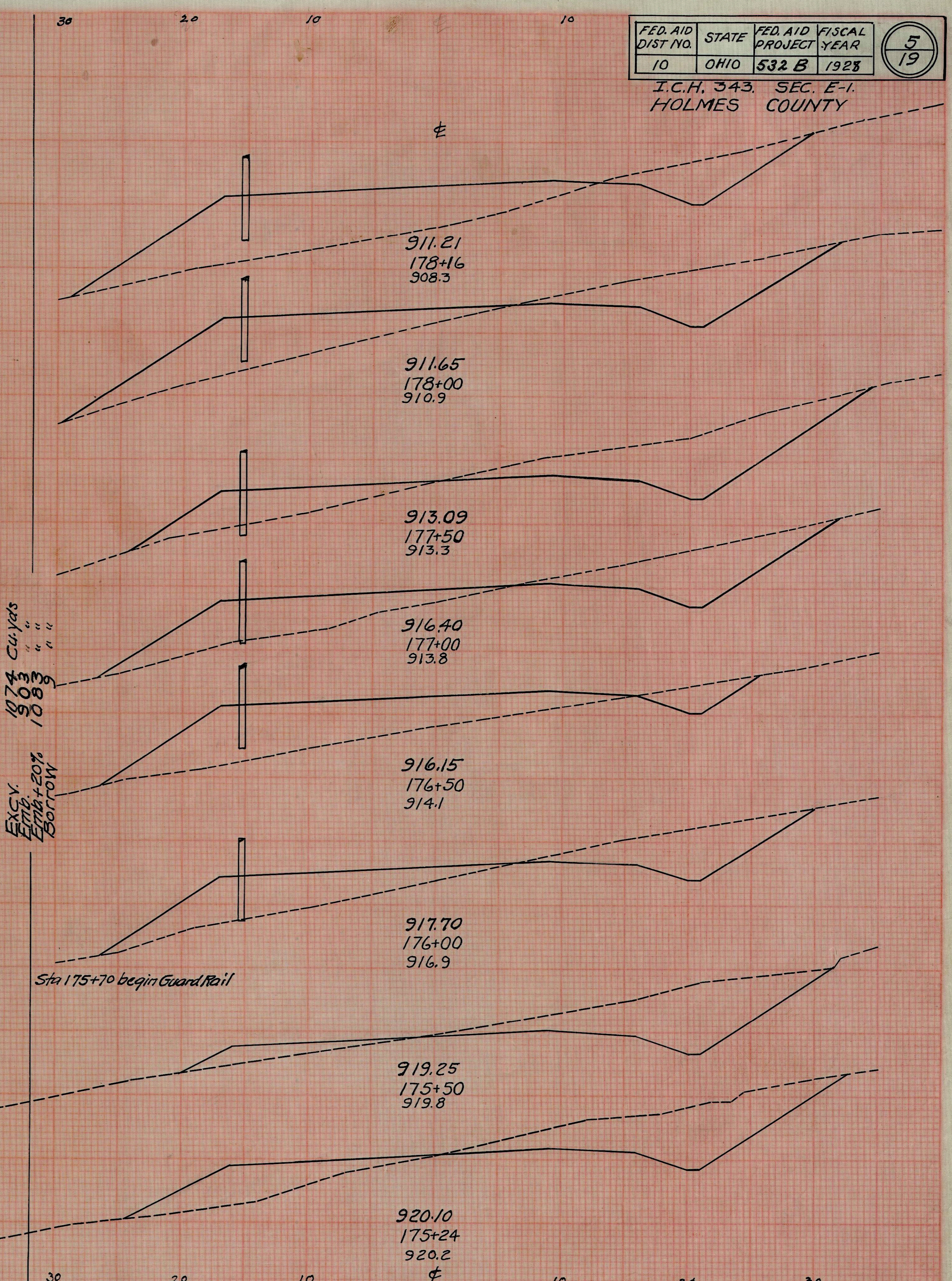
End of Fed. Aid Proj. 532 B  
S.T.H. 227 + 47.1



END AREAS		CU.YDS.	
CUT	FILL	CUT	FILL
87	14	173	15
Appx	20	121	17
100	2	(176)	2
90	0	55	2
		134	4
55	5	74	13
25	9	30	26
7	19	12	46
6	31	7	72
2	48	3	79
1	35	2	18
2	16	2	6



END AREAS		CU.YDS.	
CUT	FILL	CUT	FILL
28	130	53	79
		122	108
79	38	122	94
53	63	60	156
12	105	53	160
45	68	110	77
74	15	74	15
70	26	71	40
71	40	70	24



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5  
19

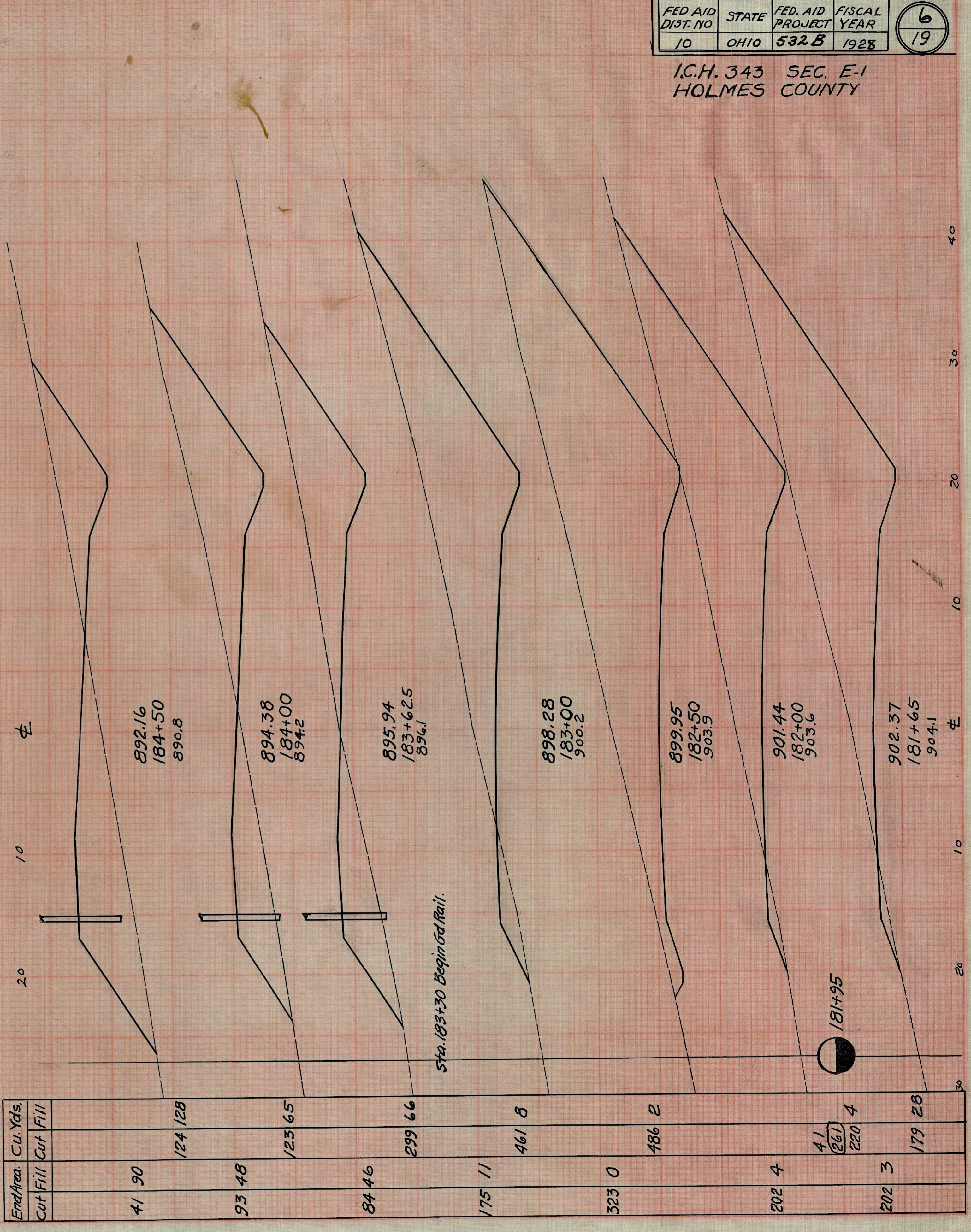
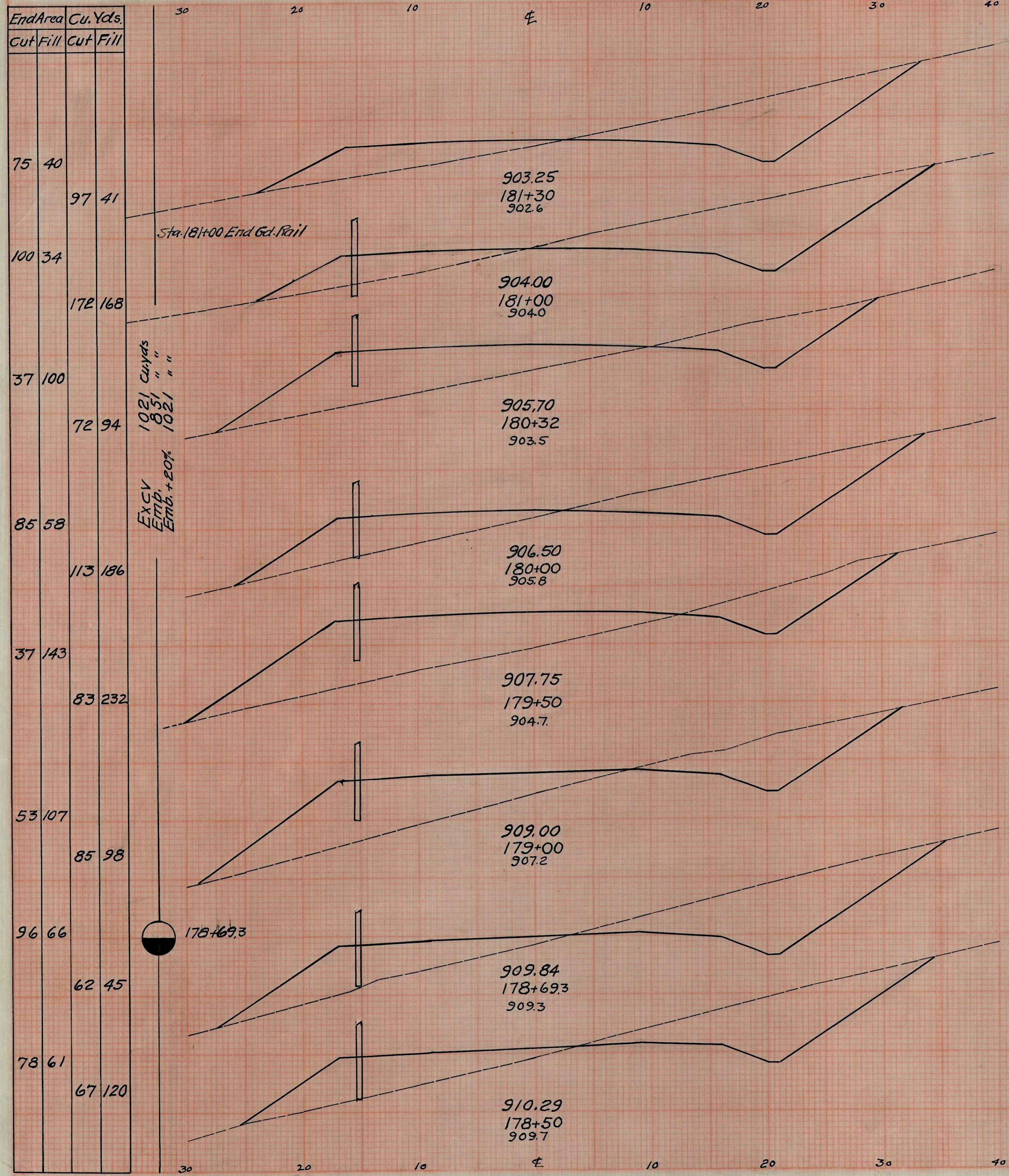
ORIGINAL SURVEY  
DATE MADE  
BY

ORIGINAL SURVEY  
DATE MADE  
BY



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End Area	Cu. Yds.
Cut	Fill
75	40
100	34
37	100
85	58
37	143
53	107
96	66
78	61

End Area	Cu. Yds.
Cut	Fill
41	90
93	48
84	46
175	11
323	0
202	4
202	3

Exc. Cu. Yds  
 Emb. +20%  
 1021  
 851  
 1021

ORIGINAL  
 SUPPLEMENT  
 AMENDMENT  
 REVISION  
 DATE

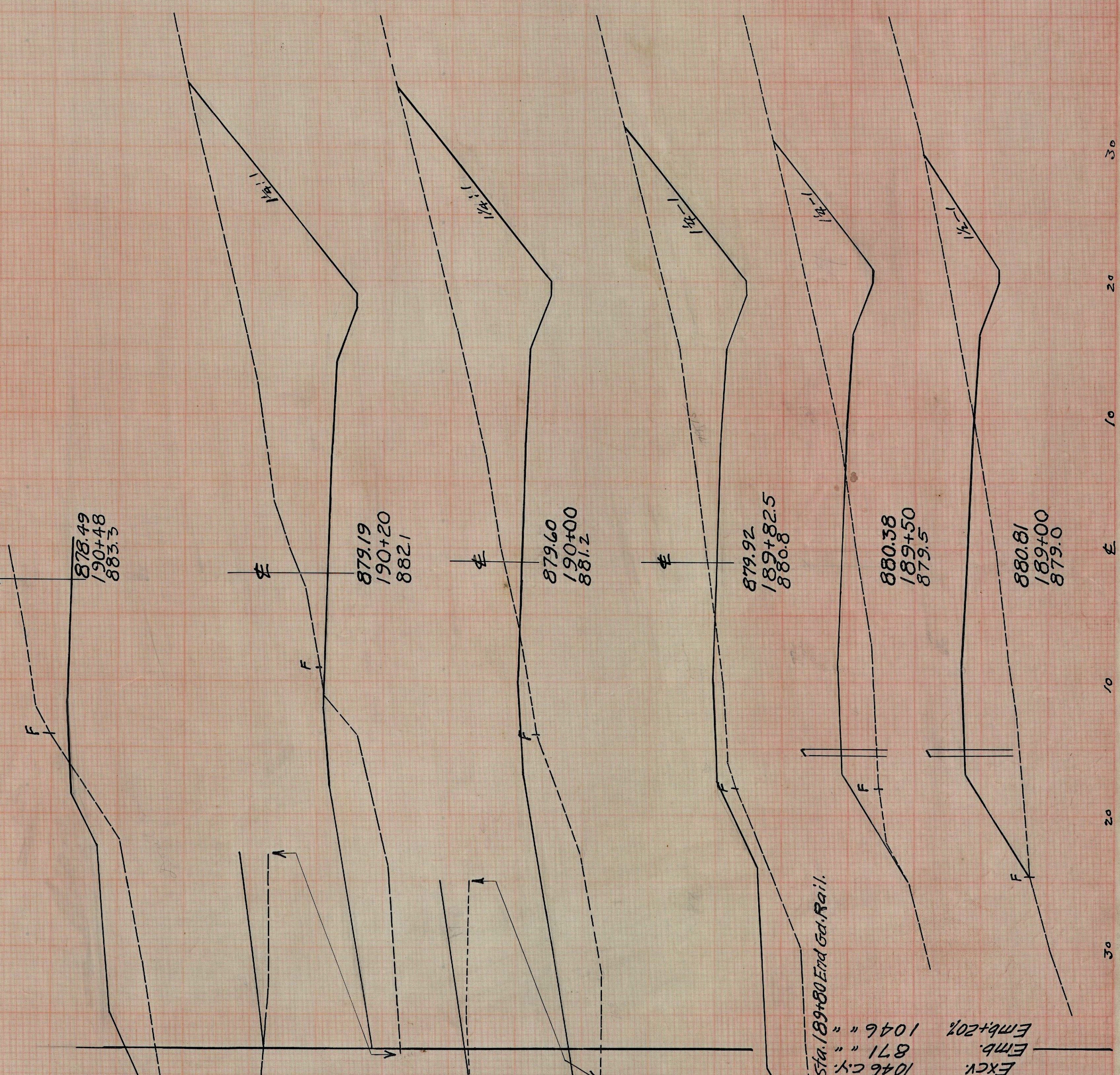
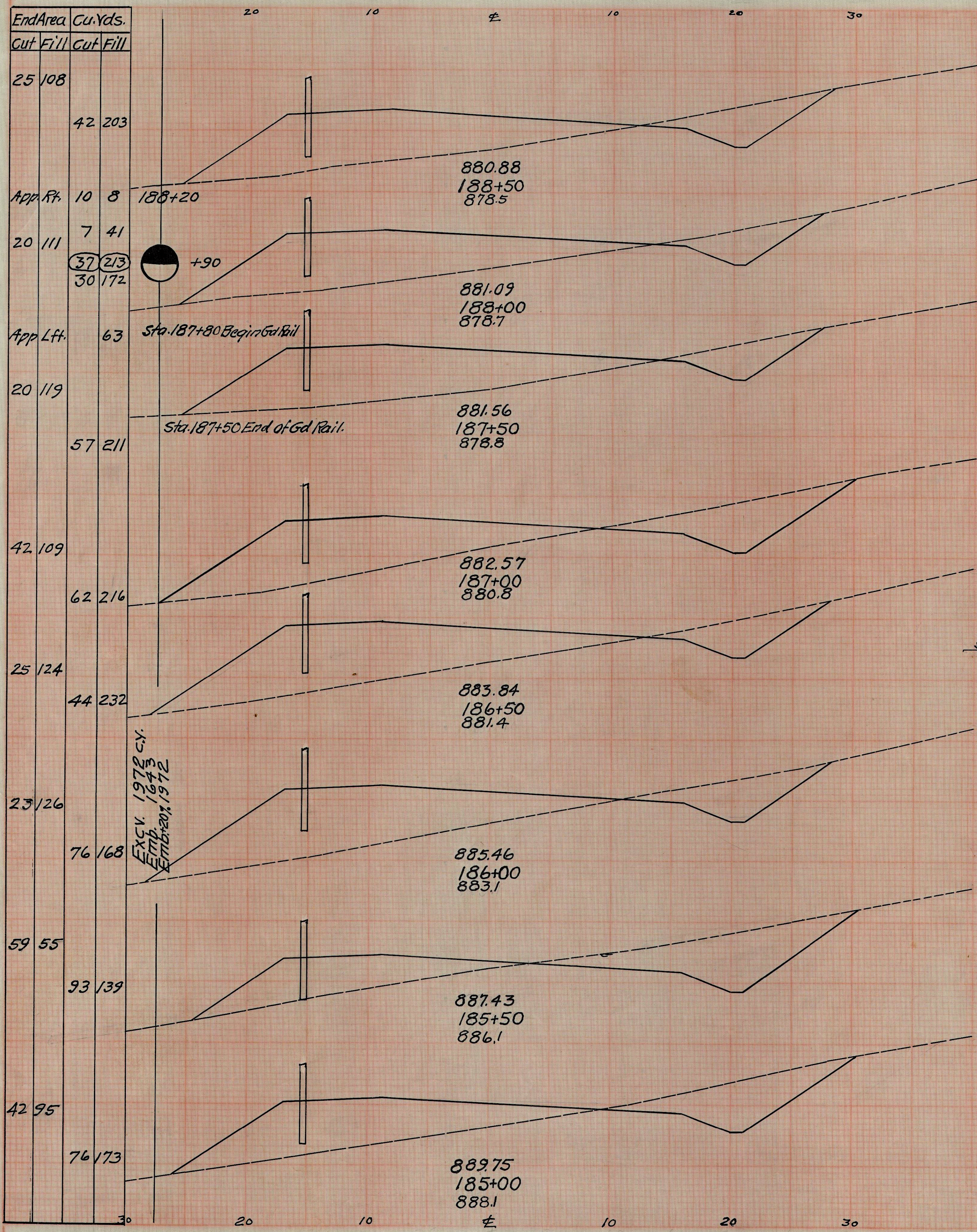
ORIGINAL  
 SUPPLEMENT  
 AMENDMENT  
 REVISION  
 DATE



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7  
19

I.C.H. 343 SEC. E-1  
HOLMES COUNTY



End Area	Cu. Yds.	Cut	Fill
0	50		
73			
193	90		
126	69		
146	96		
78	52		
96	65		
93	72		
59	54		
88	129		
36	85		
58	179		

ORIGINAL SURVEY MAP

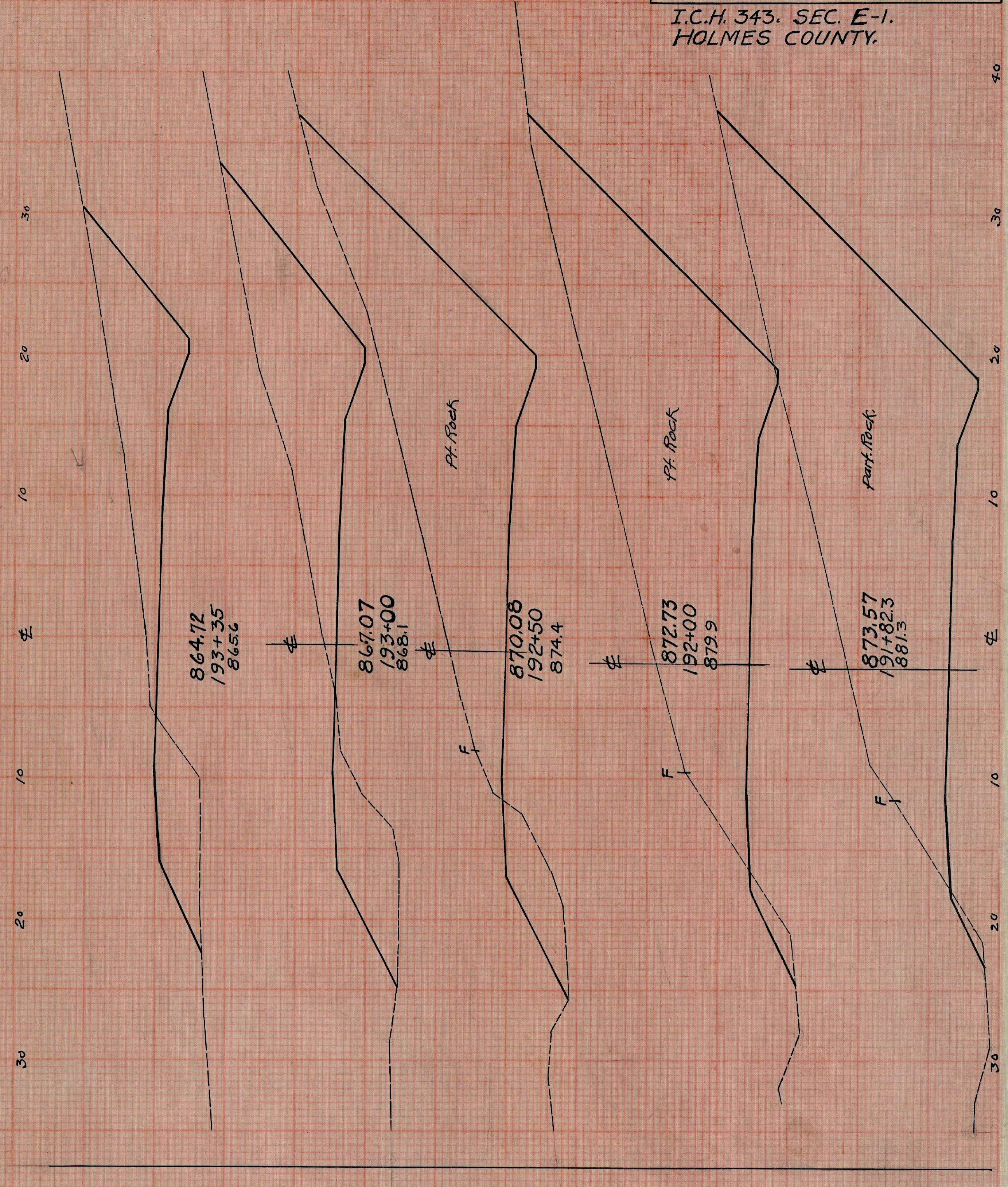
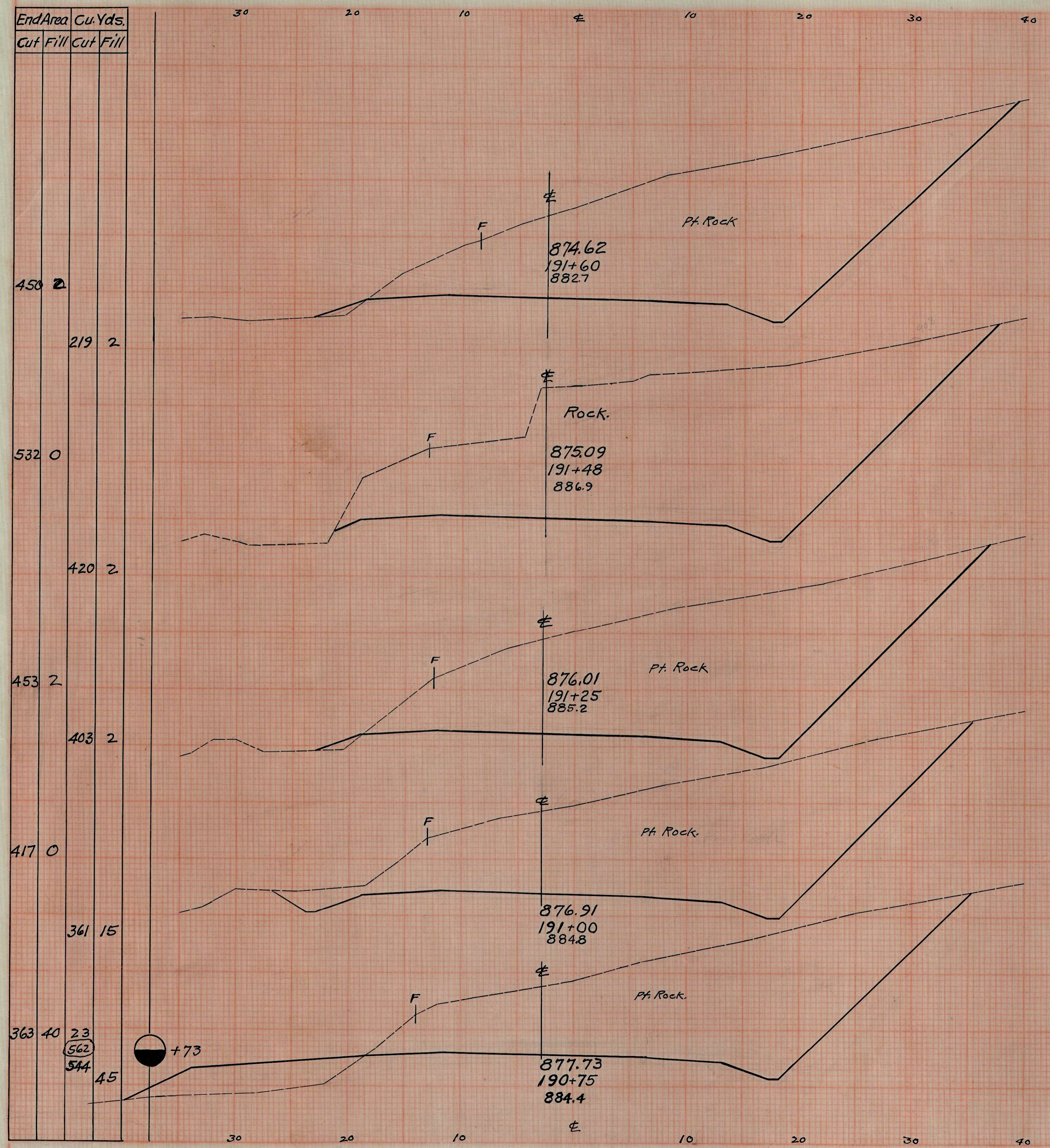
ORIGINAL SURVEY MAP



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8  
19

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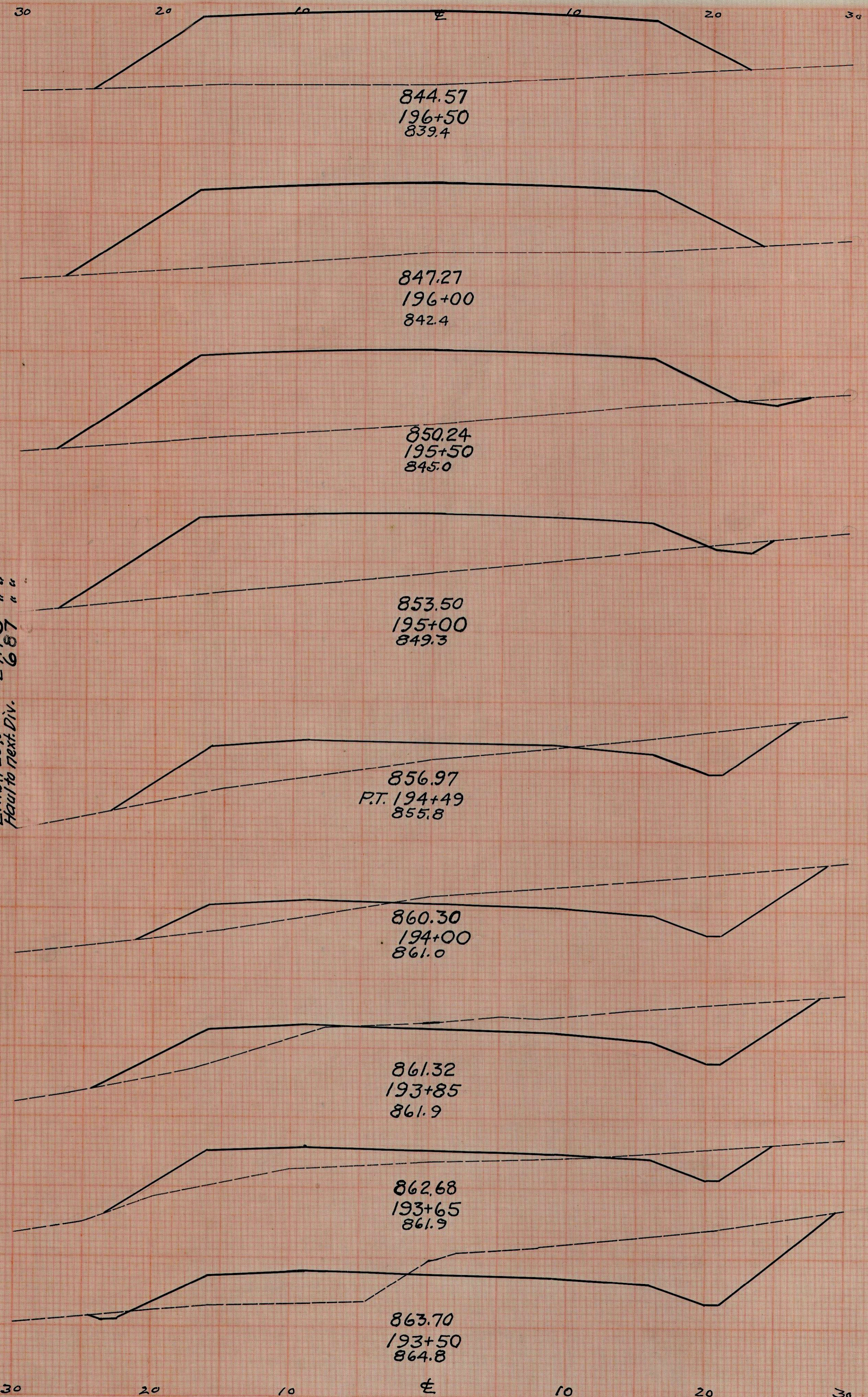
End Area	Cu. Yds.	
Cut	Fill	Fill
APR L4	30	
94	33	144
128	45	367
269	28	605
384	9	260
408	3	355



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
0	192		
		0	375
0	215		
		1	396
1	212		
		3	354
2	169		
		24	230
23	56		
		74	69
59	20		
		31	14
53	31		
		26	26
App. Rt.	5 9		
11	38		
		26	22
84	42		
		49	21

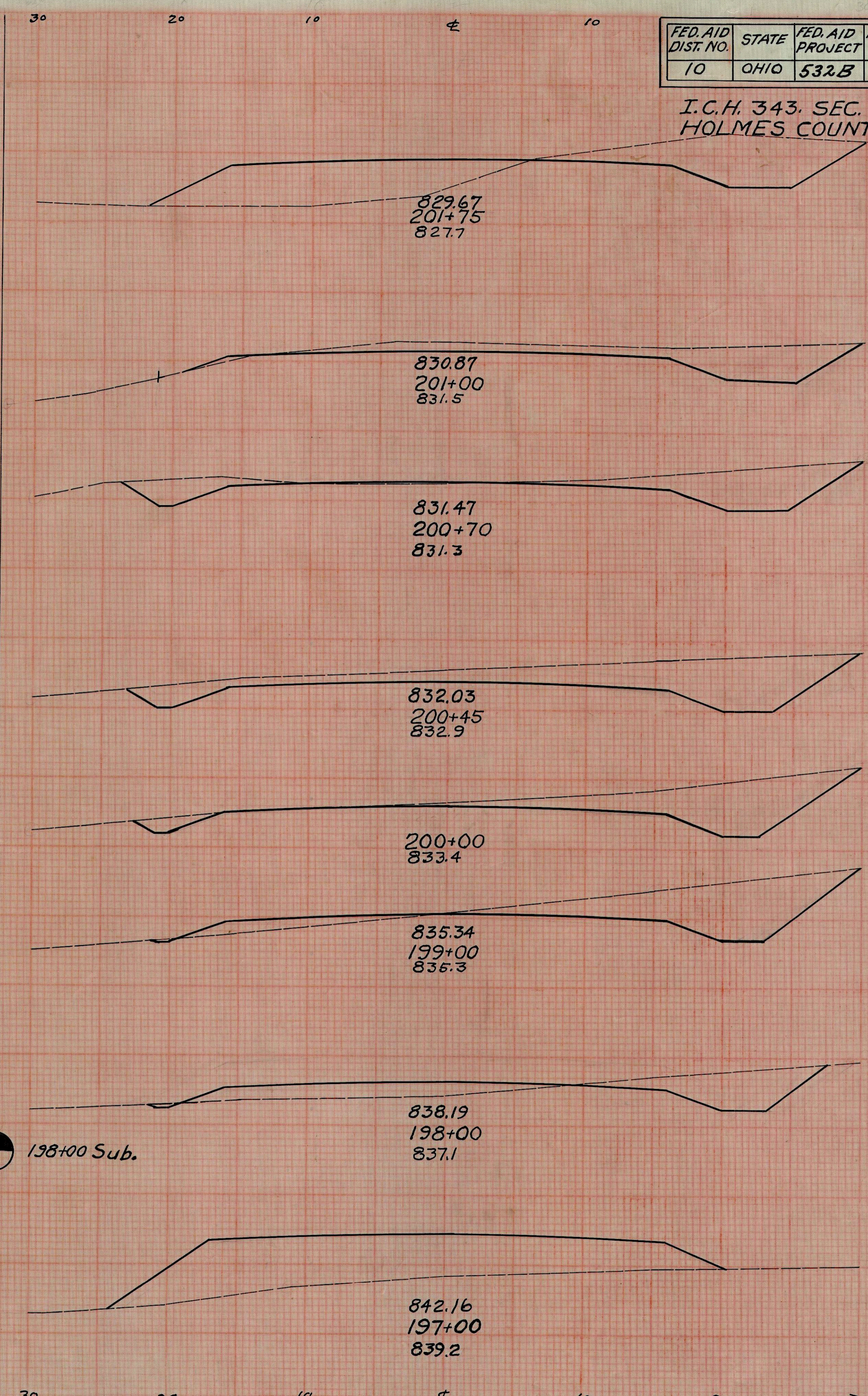
Exc. V.  
Emb. 20%  
Haul to next Div.

3433 C.Y.  
2288 " "  
2746 " "  
687 " "



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
		50	64
			121 91
		37	2
		47	2
		47	2
		58	2
		78	0
		109	0
		53	0
		204	24
		57	13
		148	70
		27	25
		37	274
		0	123
		0	286

198+00 Sub.



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532.B	1928

9  
19

I.C.H. 343. SEC. E-1.  
HOLMES COUNTY.

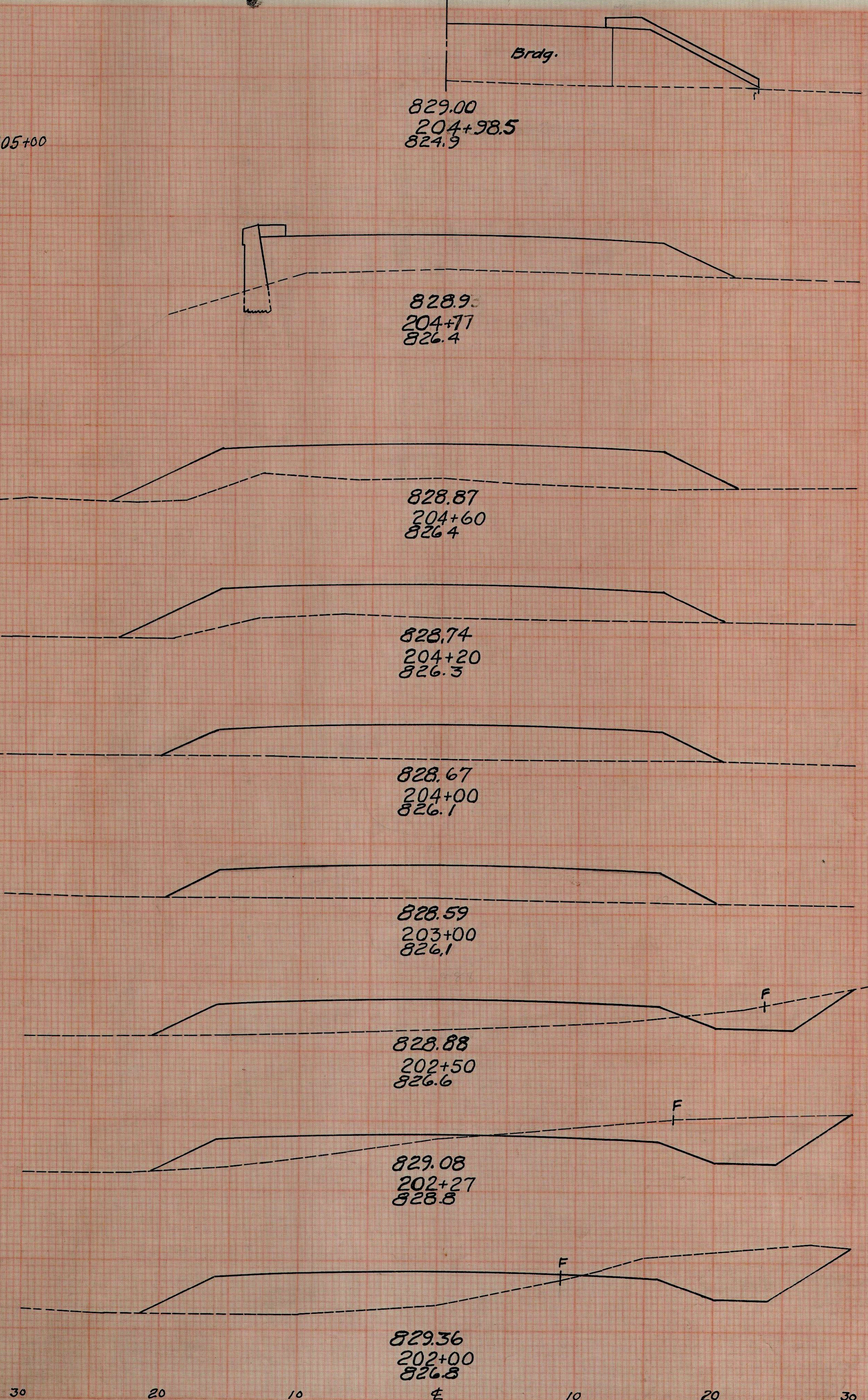


End Area		Cu. yds	
Cut	Fill	Cut	Fill
0	50		
0	53		
0	83		
0	59		
0	104		
0	291		
0	92		
0	65		
0	83		
0	298		
0	78		
15	136		
16	69		
26	42		
44	30		
41	51		
39	71		
41	63		

Sta. 205+00

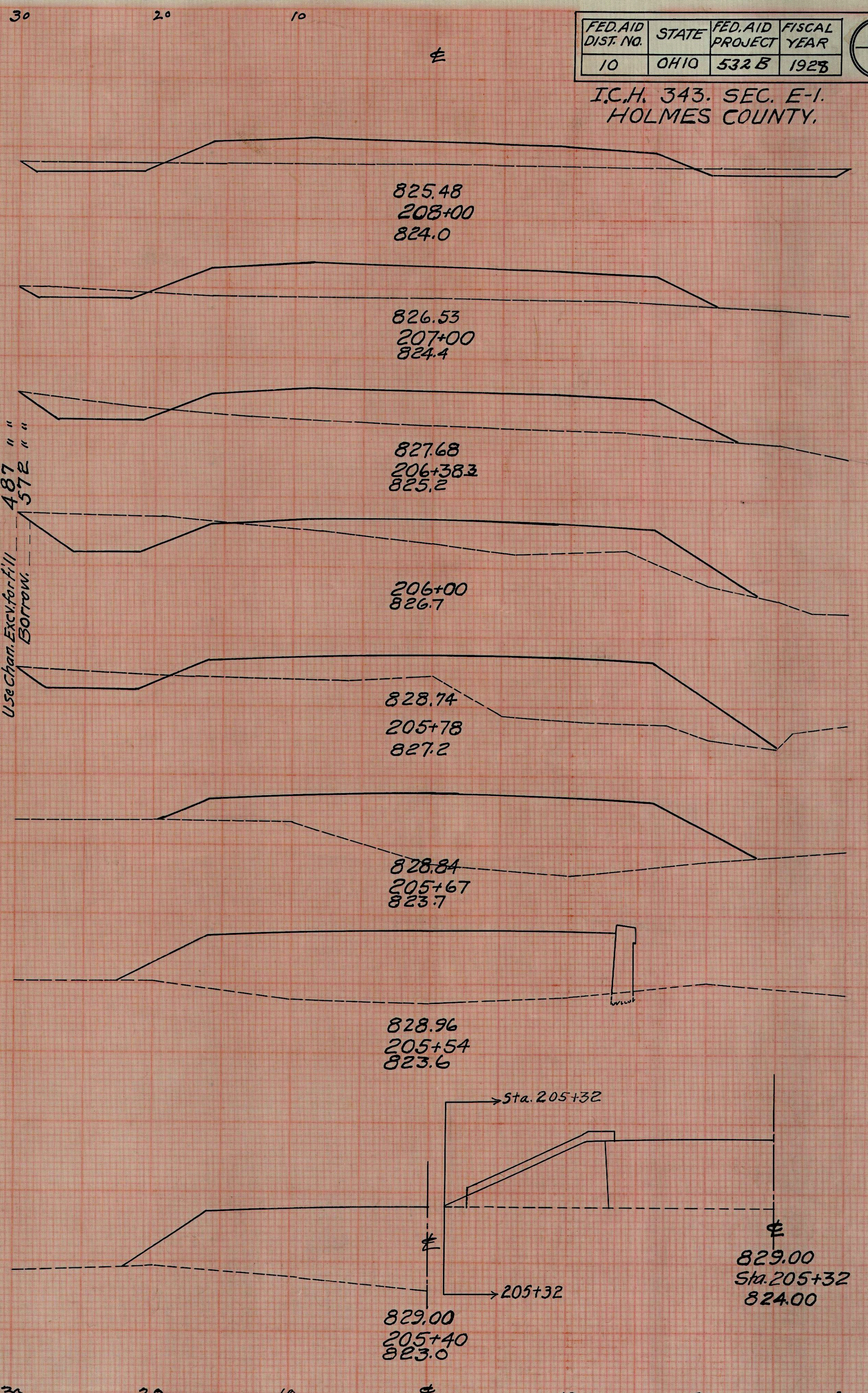
Excav.  
Emb.  
Emb. + 20%  
Haul from last Div

810 Cu. yd.  
1247  
1437  
1687



End Area		Cu. yds	
Cut	Fill	Cut	Fill
11	54		
30	241		
5	76		
20	182		
12	82		
26	99		
25	58		
15	72		
10	120		
4	57		
0	160		
0	154		
0	65		
0	96		
0	19		
0	35		

356 C.Y.  
179 " "  
145 " "  
487 " "  
572 " "  
Excav.  
Emb. + 20%  
Use Chan. Exc. for fill  
Borrow



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532 B	1928

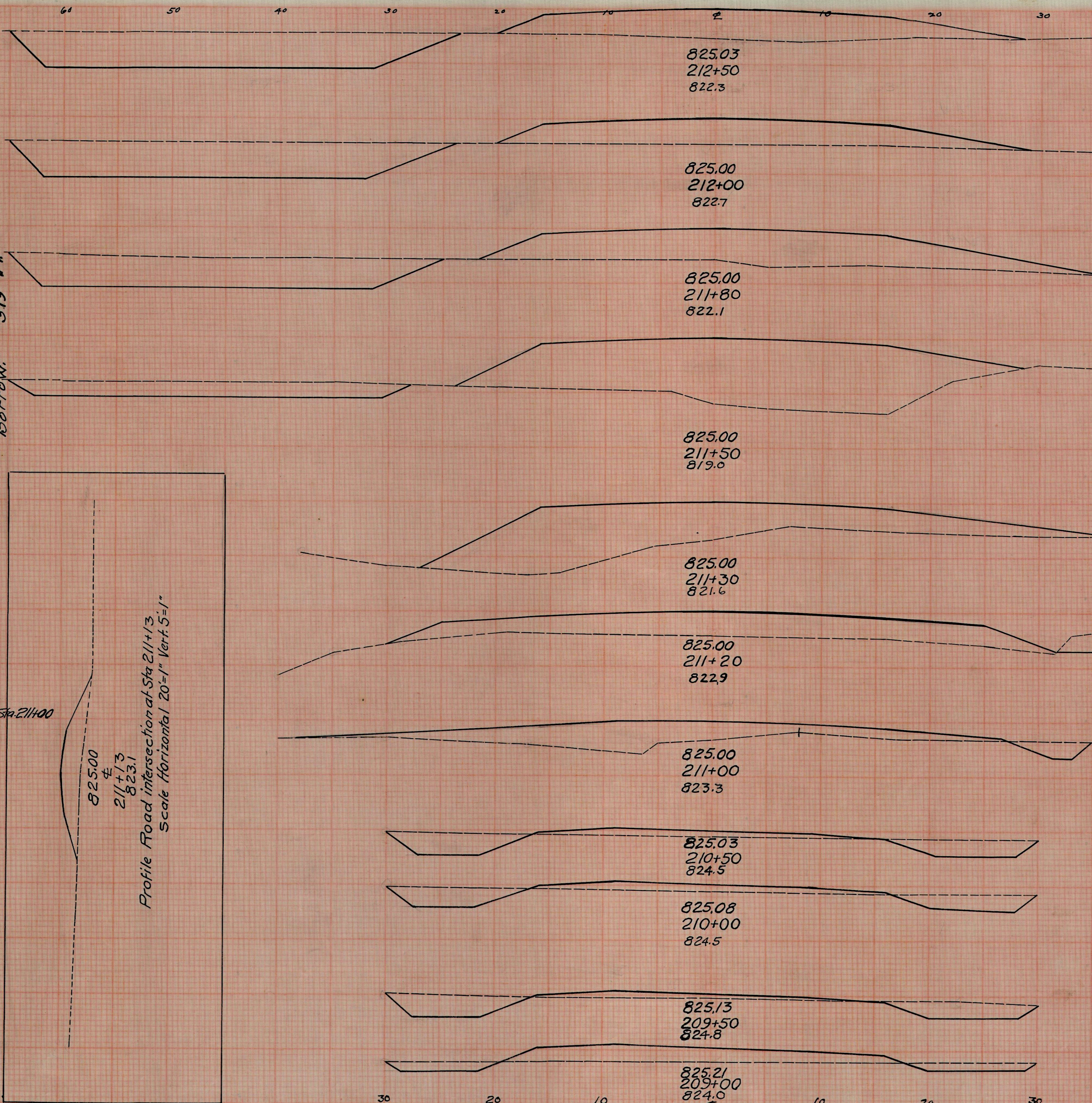
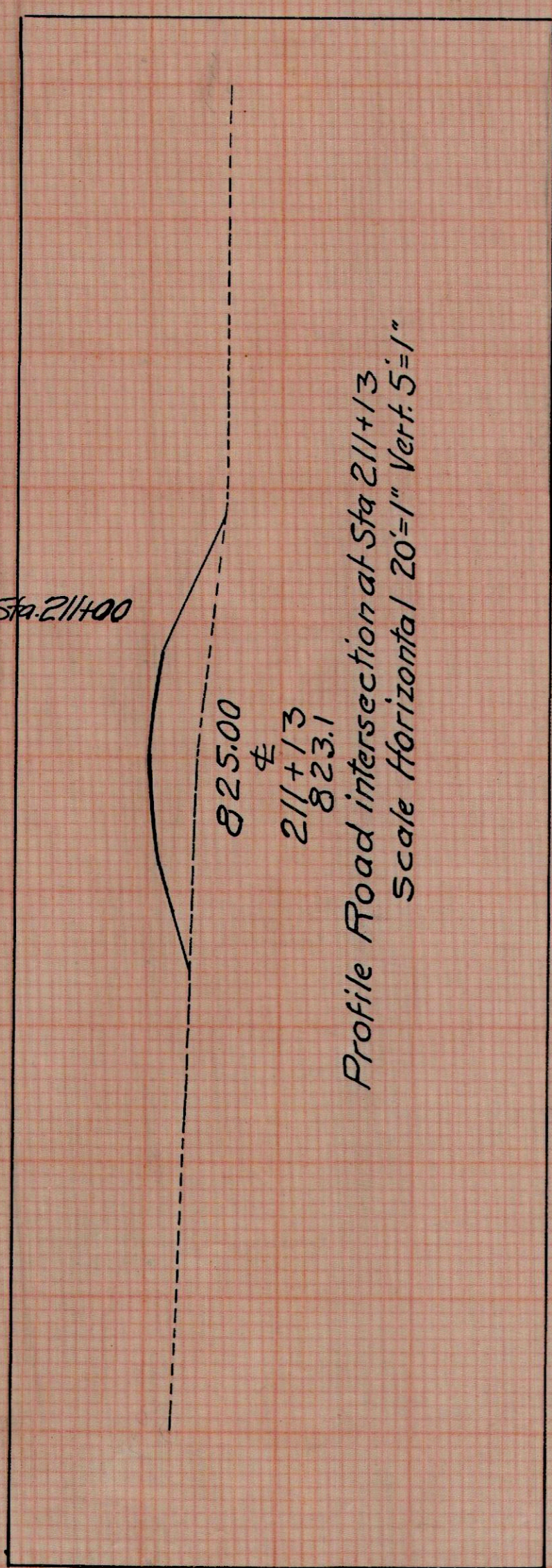
I.C.H. 343. SEC. E-1.  
HOLMES COUNTY.

10/19



End Area	Cu. Yds.	Cut	Fill
116	92		
		211	162
112	83		
		100	98
95	125		
		78	194
45	223		
		17	148
0	175		
		2	52
6	105		
		4	69
App. Lth.		10	8
		6	79
		37	87
37	15		
		64	32
32	20		
		64	28
37	10		
		48	46
15	40		
		48	174

Exc. V. Emb. Champt. Bottom.



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532 B	1925

11  
19

I.C.H. 343. SEC. E-1. HOLMES COUNTY.

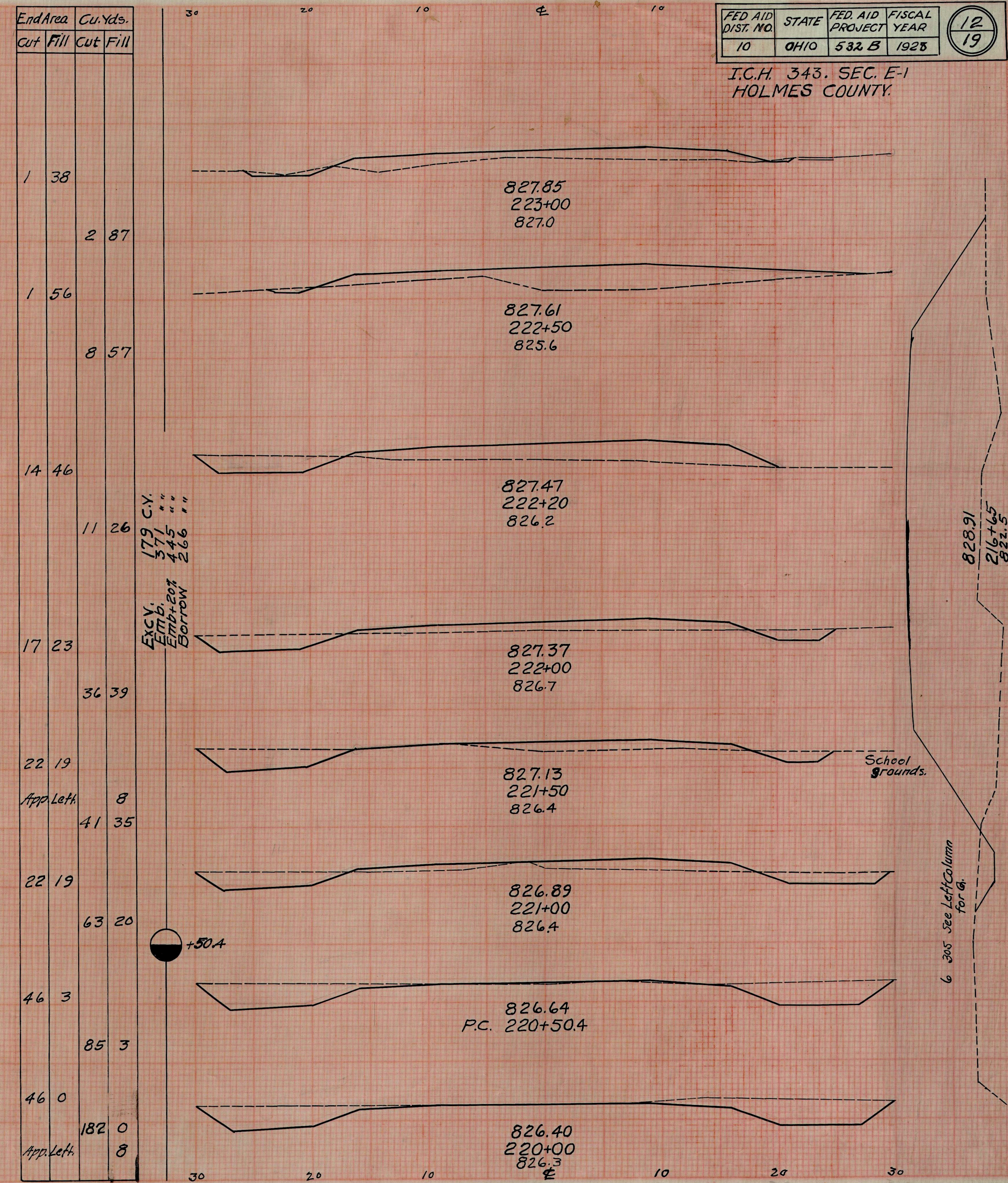
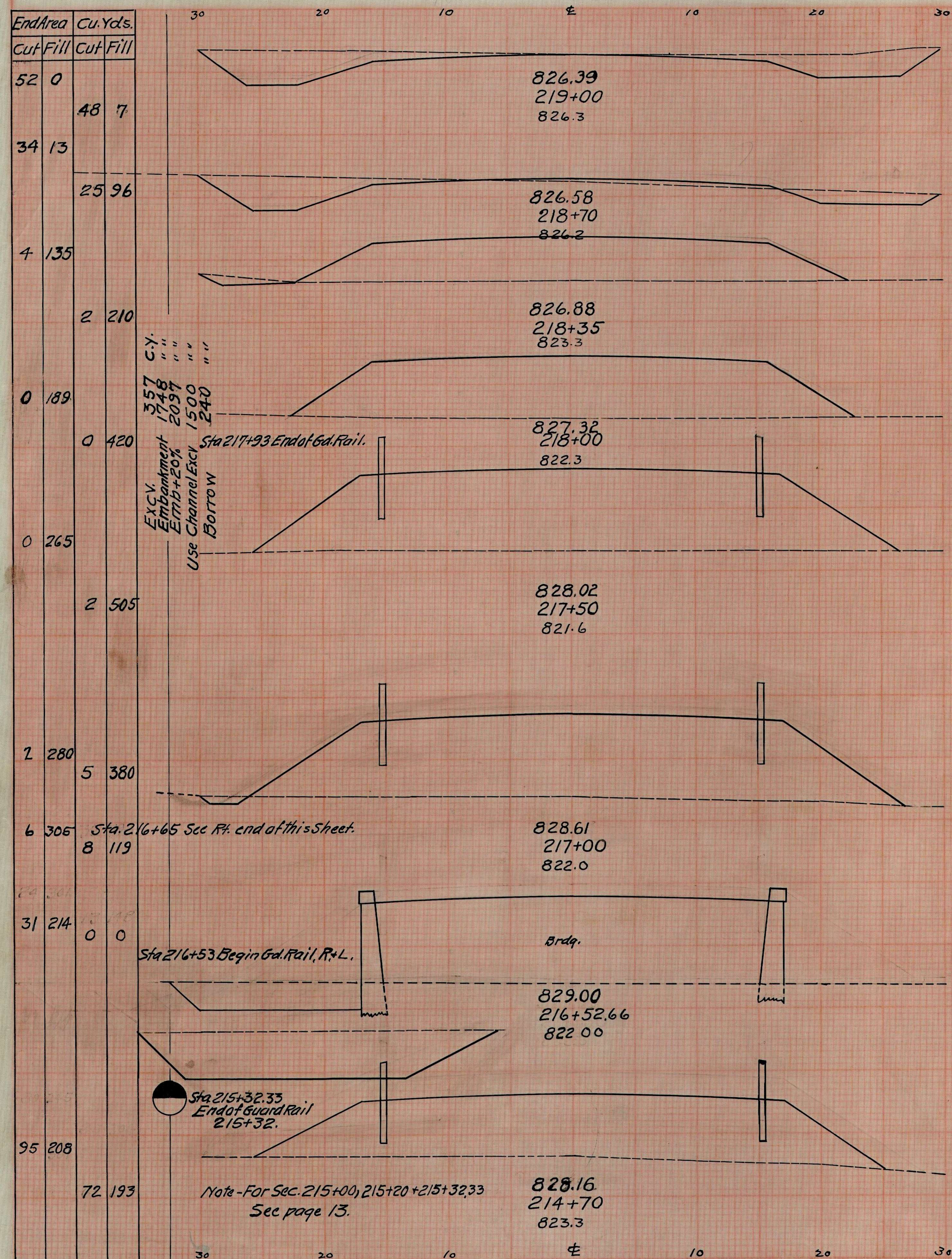
End Area	Cu. Yds.	Cut	Fill
102	212		
		205	343
119	158		
		217	256
115	118		
		219	180
122	76		
		220	156



FED AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532 B	1925

12  
19

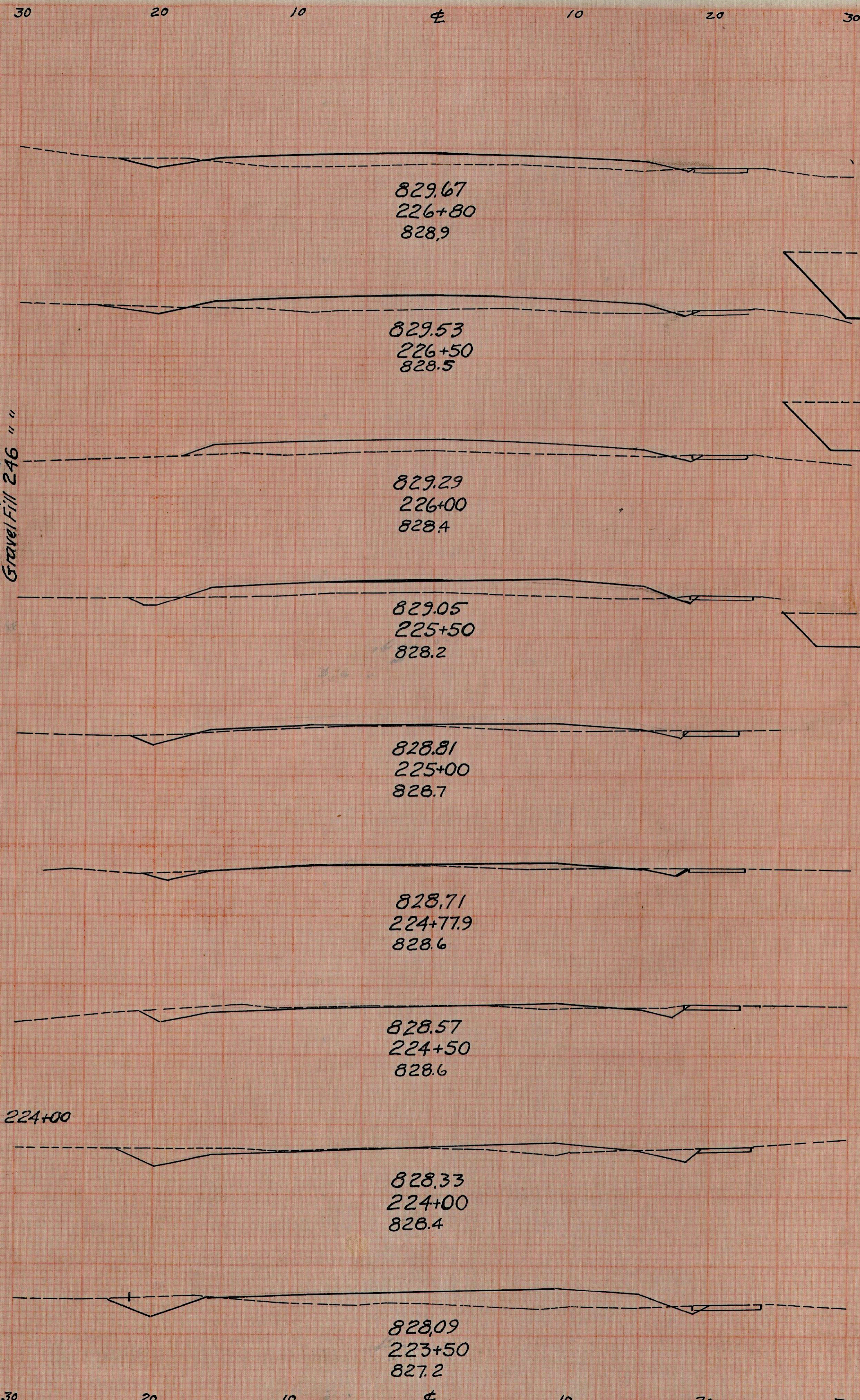
I.C.H. 343. SEC. E-1  
HOLMES COUNTY.





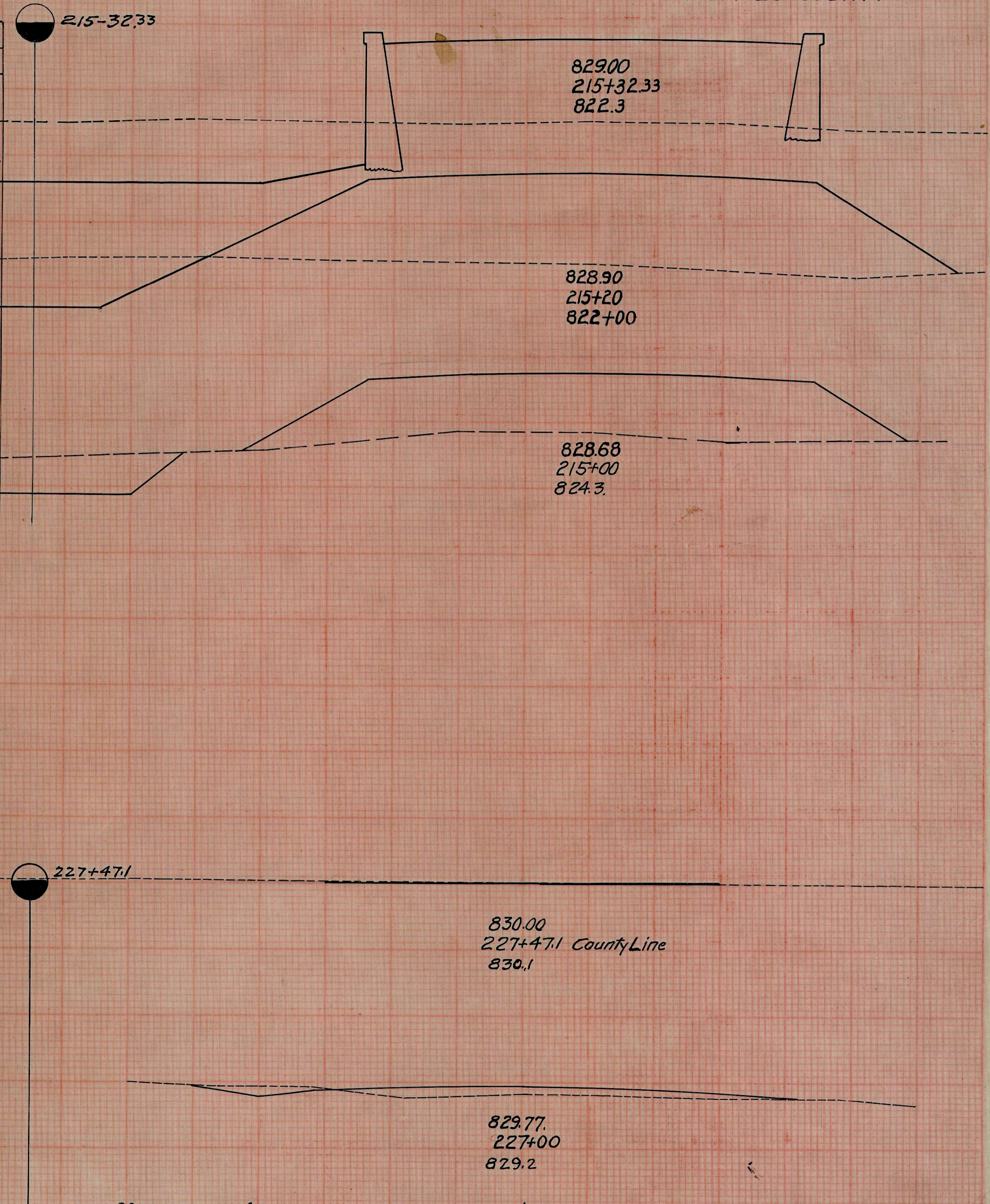
End Area		Cu. Yds	
Cut	Fill	Cut	Fill
1	27		
2	32		
2	30		
3	55		
1	29		
3	58		
2	34		
2	41		
2	10		
2	6		
2	5		
6	5		
7	2		
14	8		
8	7		
12	35		
5	31		
6	64		

38 C.Y.  
 Emb. 237 "  
 Emb. 284 "  
 Gravel Fill 246 "



End Area		Cu. Yds	
Cut	Fill	Cut	Fill
204	193	71	115
108	309	70	148
81	193	98	222

End Area		Cu. Yds	
Cut	Fill	Cut	Fill
2	0	4	15
4	17	2	17



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532 B	1928

13  
19

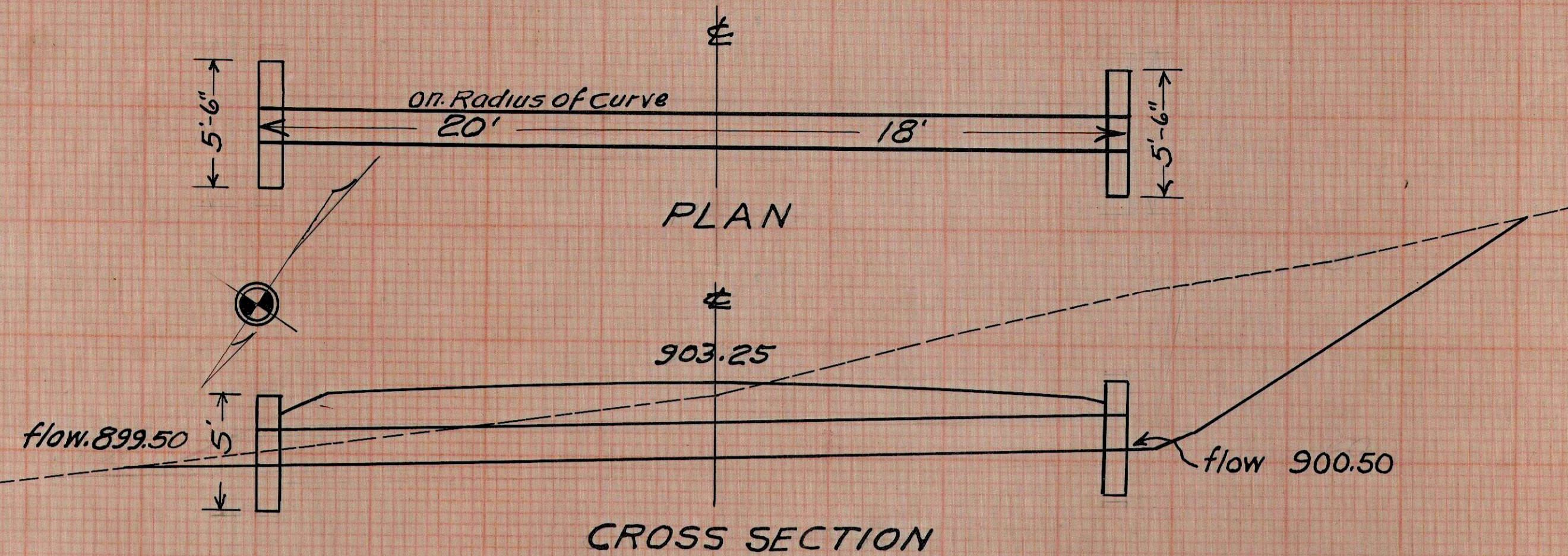
I.C.H. 343 SEC. E-1  
HOLMES COUNTY.



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	532B	1928

14  
19

I.C.H. 343, SEC. E-1.  
HOLMES COUNTY.



**CULVERT DATA**

Type Std. Sol. C.I.P. Dr. No. 300  
Size 18" x 38'  
Work Req. Build New Culvert.

**ESTIMATED QUANTITIES**

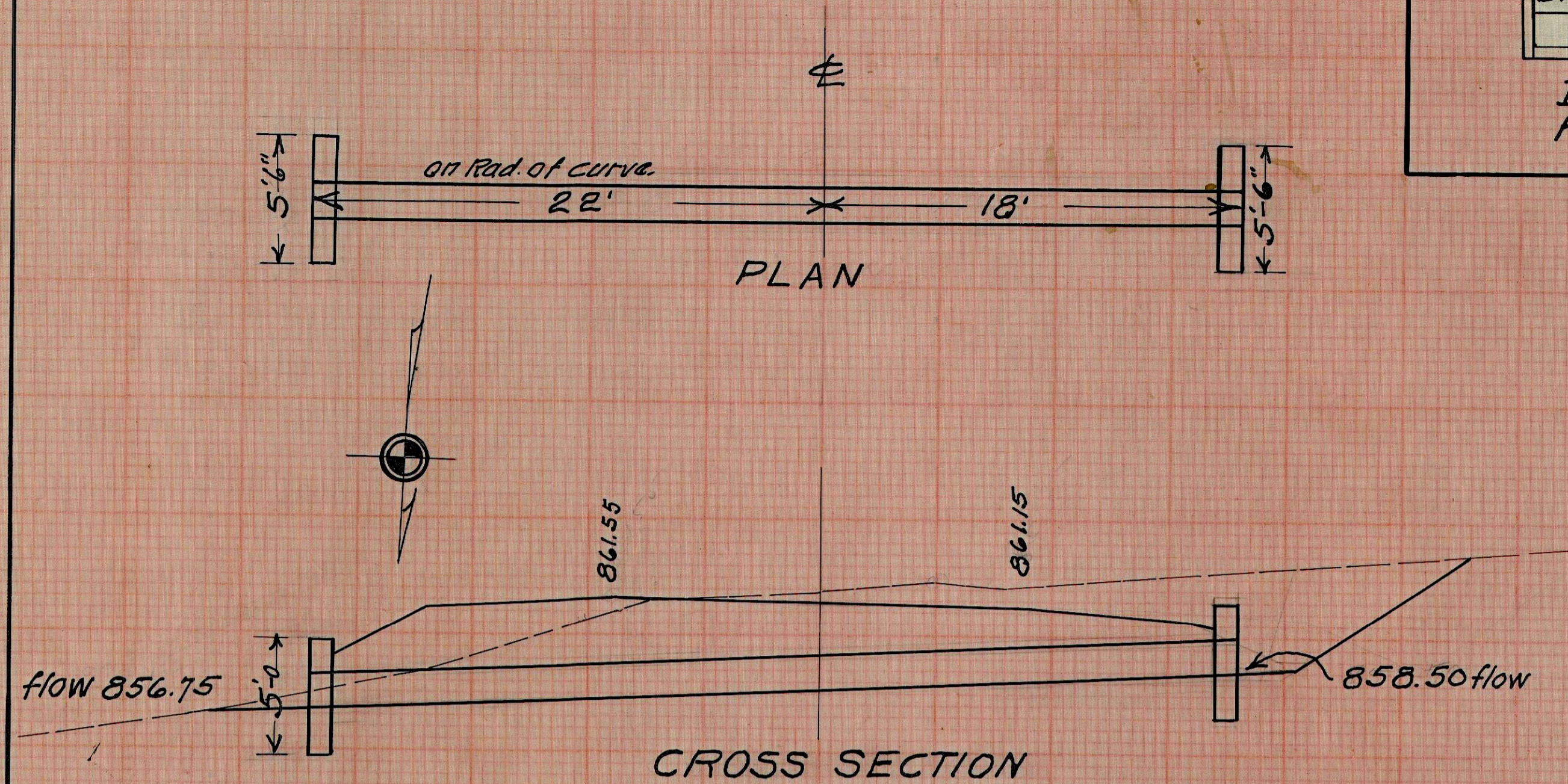
Excav. 14 Cu. yds  
Conc. 1-5 1/2 1.9 " "  
Reinf. Steel 50 lbs.  
18" Sol. C.I.P. 38 lin. ft.

Drawn by W.L. Reidenbach  
Date Dec. 6. 1927

Checked by W.G.S.  
Date 3-6-28 Div. Engr.

3

Sta. 181+30.



**CULVERT DATA**

Type Std. Sol. C.I.P. Dr. No. 300  
Size 18" x 40'  
Work Req. Build new Culvert

**ESTIMATED QUANTITIES**

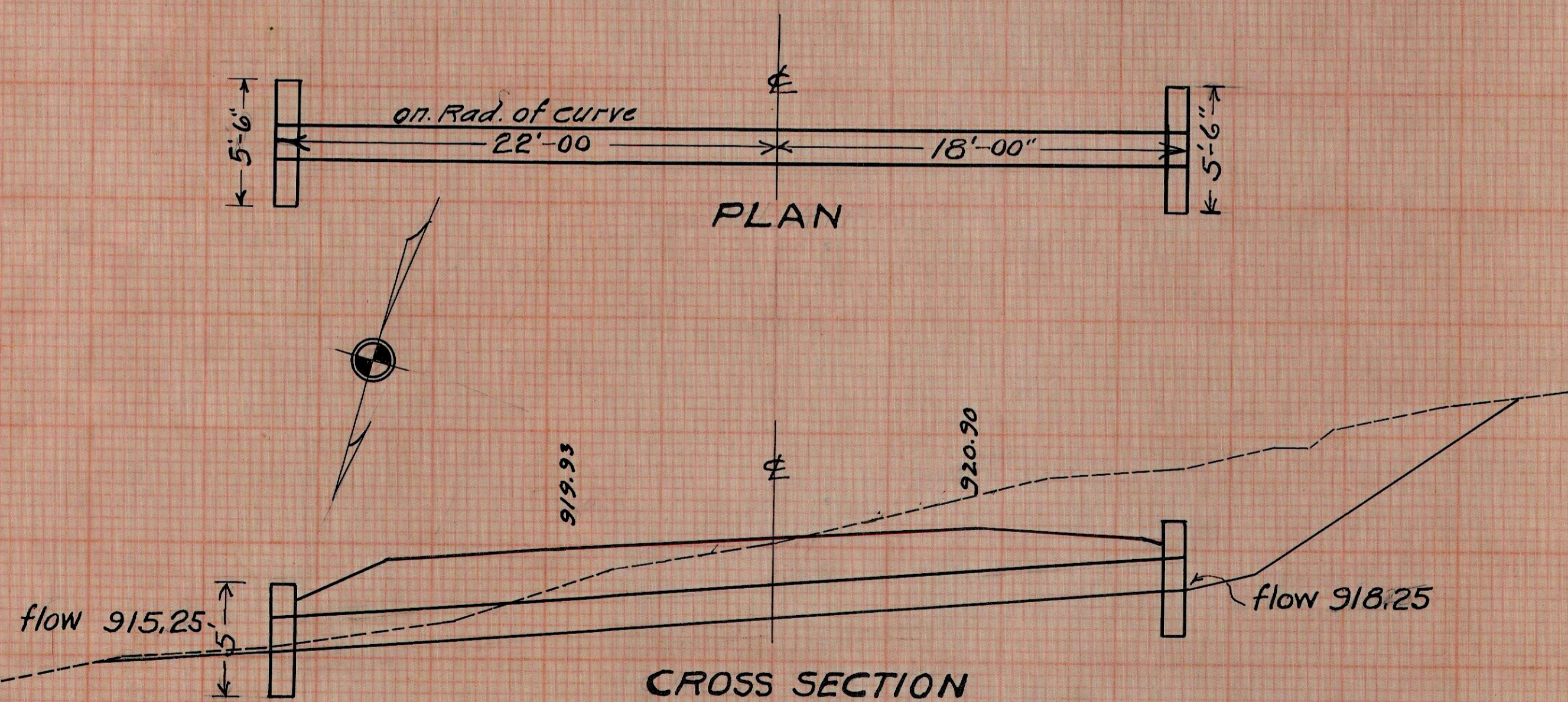
Excav. 20 Cu. yds  
Conc. 1: 5 1/2 1.9 " "  
Reinf. Steel 50 lbs.  
18" Sol. C.I.P. 40 lin. ft.

Drawn by W.L. Reidenbach  
Date Dec. 7. 1927

Checked by W.G.S.  
Date 3-6-29 Div. Engr.

5

Sta. 193+85



**CULVERT DATA**

Type Std. Sol. C.I.P. Dr. No. 300  
Size 18" x 40'  
Work Req. Build New Culvert.

**ESTIMATED QUANTITIES**

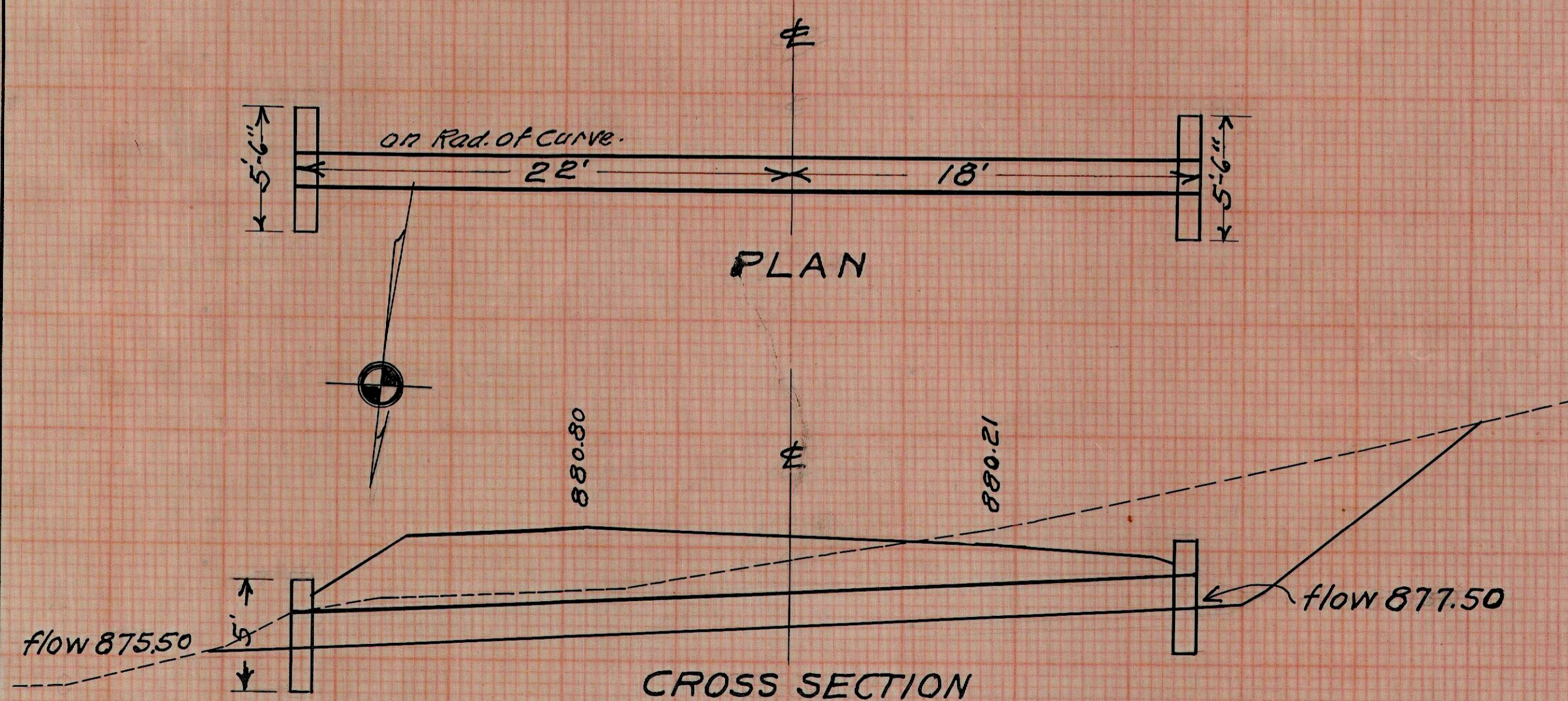
Excav. 17 Cu. yds  
Conc. 1: 5 1/2 1.9 " "  
Reinf. Steel 50 lbs.  
18" Sol. C.I.P. 40 lin. ft.

Drawn by W.L. Reidenbach  
Date Dec 6. 1927.

Checked by W.G.S.  
Date 3-6-28 Div. Engr.

2

Sta. 175+24



**CULVERT DATA**

Type Std. Sol. C.I.P. Dr. No. 300.  
Size 18" x 40'  
Work Req. Build New Culvert.

**ESTIMATED QUANTITIES**

Excav. 18 Cu. yds  
Conc. 1: 5 1/2 1.9 " "  
Reinf. Steel 50 lbs.  
18" Sol. C.I.P. 40 lin. ft.

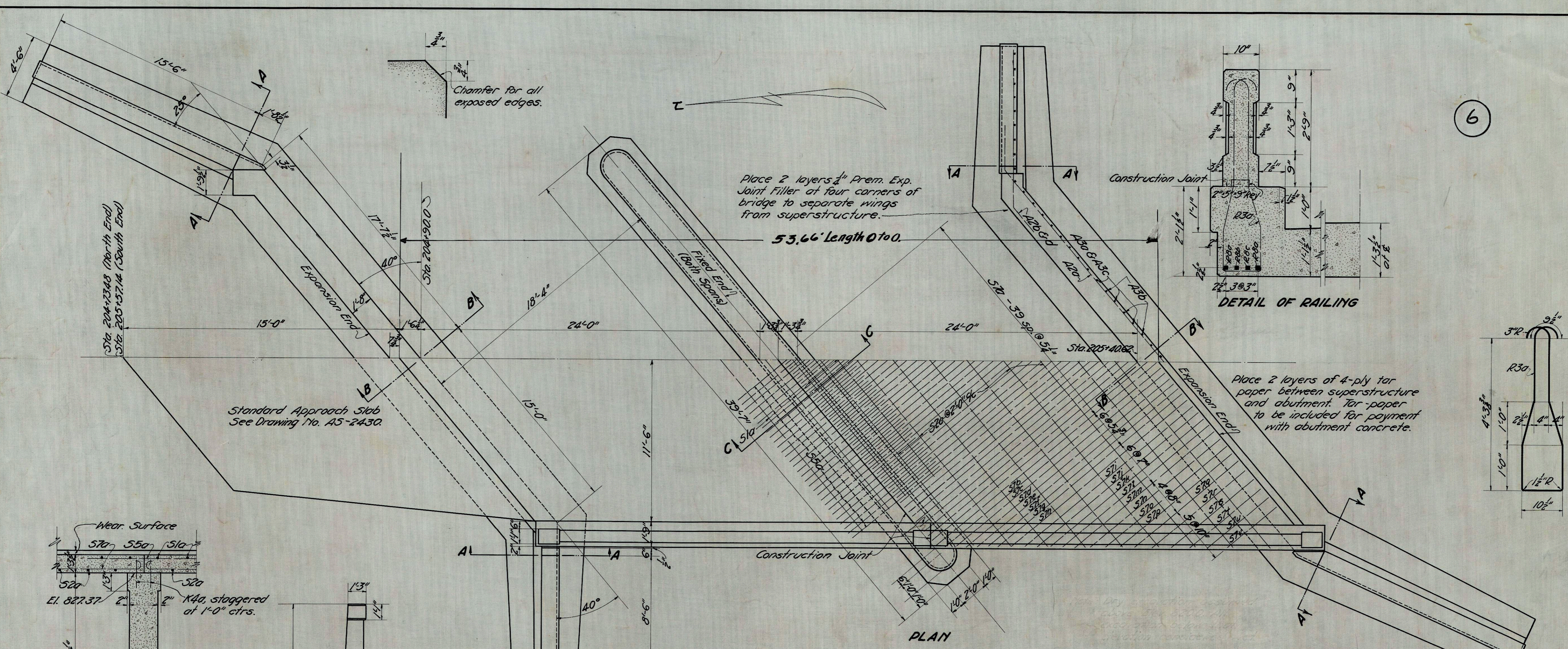
Drawn by W.L. Reidenbach  
Date Dec. 7. 1927

Checked by W.G.S.  
Date 3-6-28 Div. Engr.

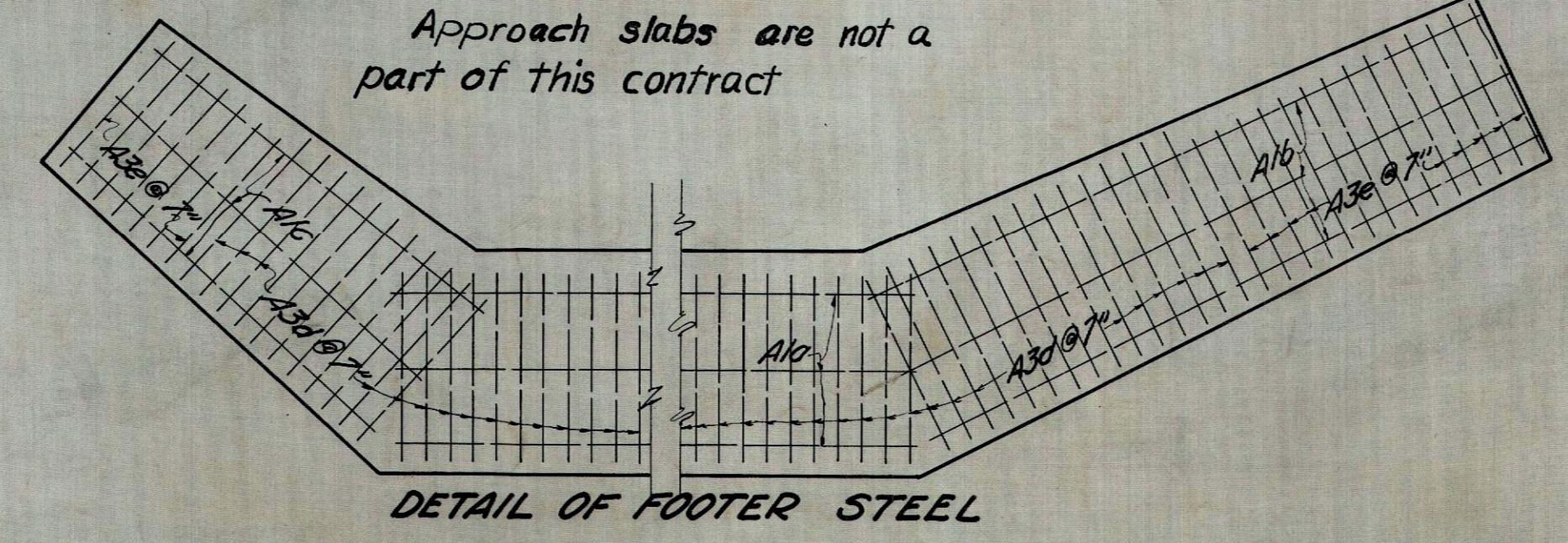
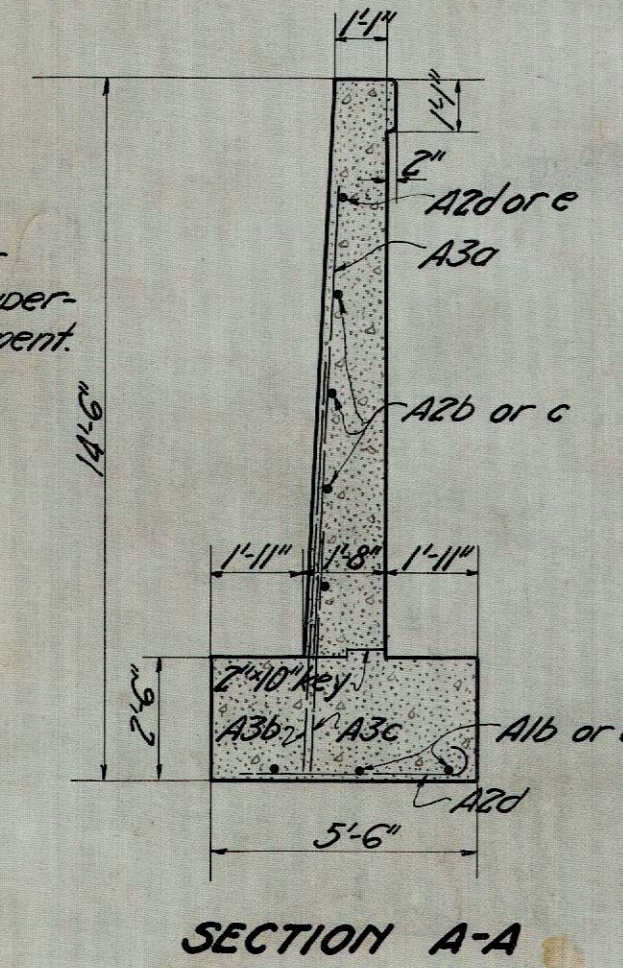
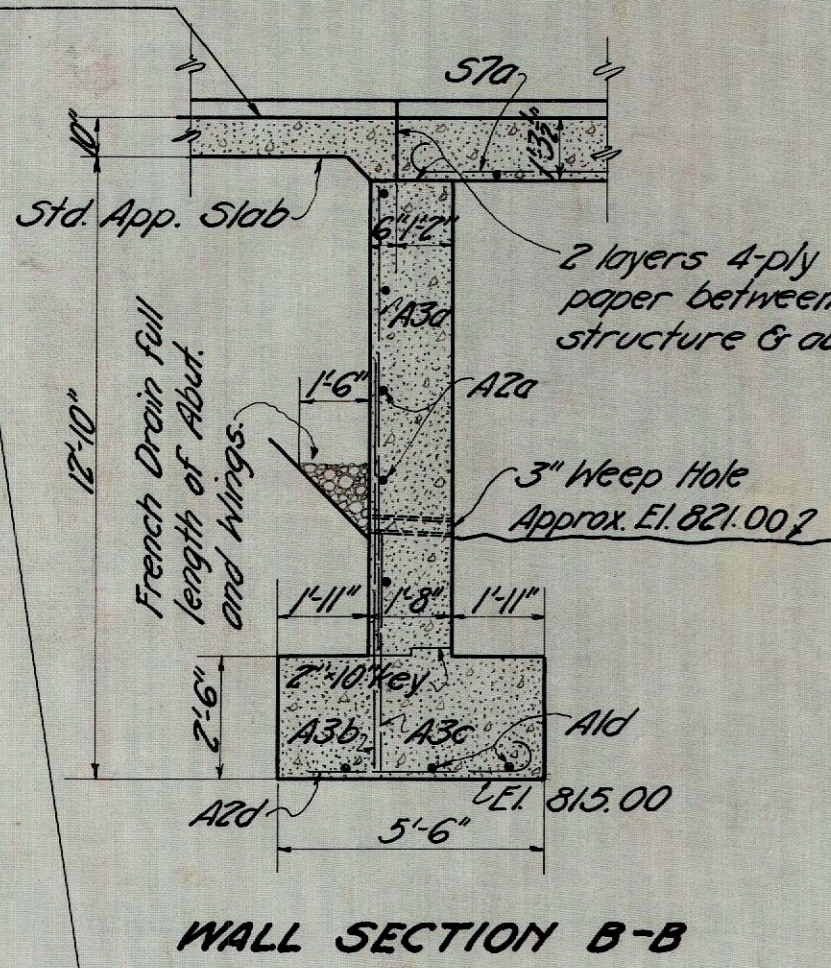
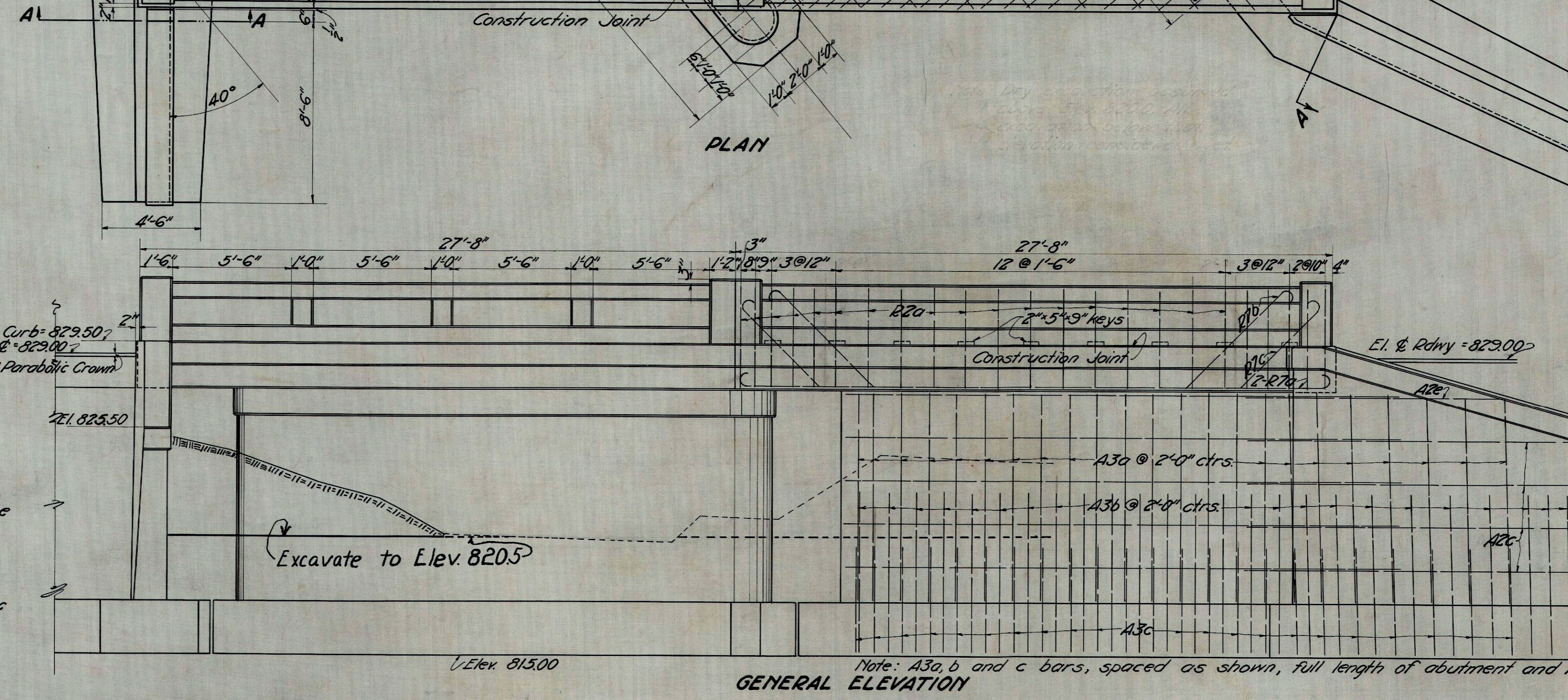
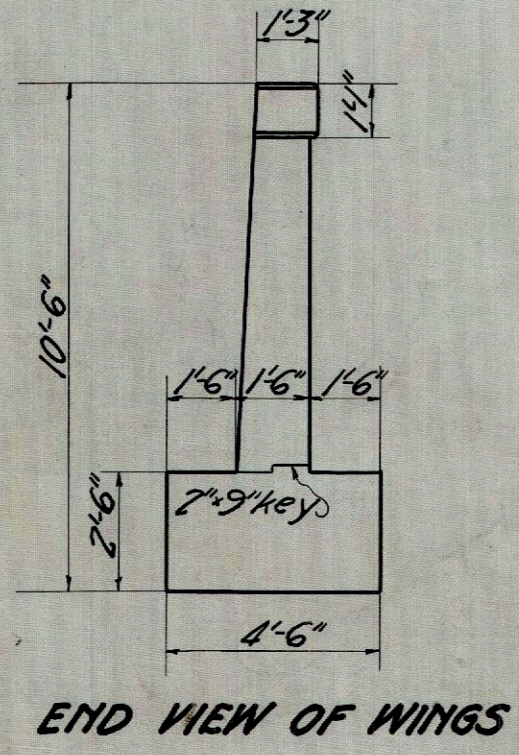
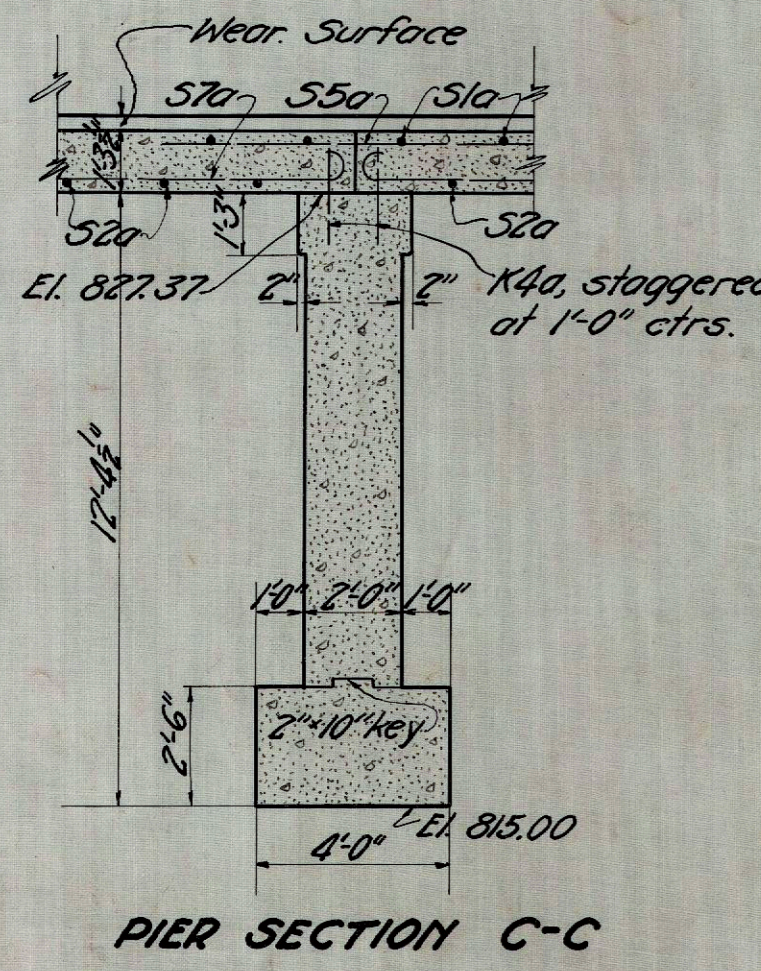
4

Sta. 189+50



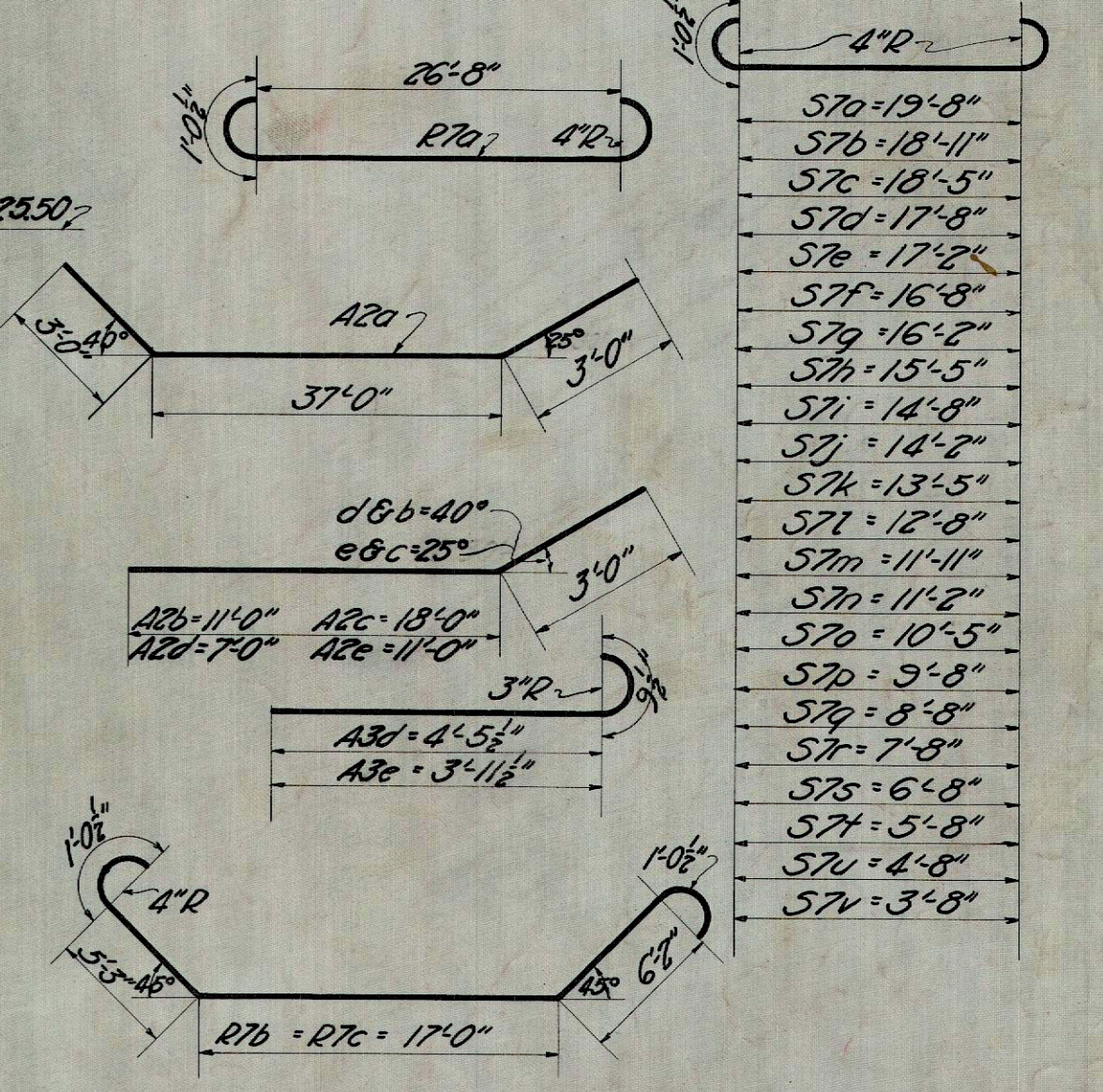


STEEL LIST					
Mark	Size	No.	Shape	Length	Weight
S7a	1" φ	80	Bent	21'-9"	46.46
S7b	"	4	"	21'-0"	22.4
S7c	"	4	"	20'-6"	21.9
S7d	"	4	"	19'-9"	21.1
S7e	"	4	"	19'-3"	20.6
S7f	"	4	"	18'-9"	20.0
S7g	"	4	"	18'-3"	19.5
S7h	"	4	"	17'-6"	18.7
S7i	"	4	"	16'-9"	17.9
S7j	"	4	"	16'-3"	17.4
S7k	"	4	"	15'-6"	16.6
S7l	"	4	"	14'-9"	15.8
S7m	"	4	"	14'-0"	15.0
S7n	"	4	"	13'-3"	14.2
S7o	"	4	"	12'-6"	13.4
S7p	"	4	"	11'-9"	12.6
S7q	"	4	"	10'-9"	11.5
S7r	"	4	"	9'-9"	10.4
S7s	"	4	"	8'-9"	9.4
S7t	"	4	"	7'-9"	8.3
S7u	"	4	"	6'-9"	7.2
S7v	"	4	"	5'-9"	6.2
S5a	3/4" φ	61	Straight	8'-0"	73.3
S2a	1/2" φ	18	Straight	34'-3"	4.12
S1a	3/8" φ	4	Straight	26'-3"	4.0
A3a	1/2" φ	50	Straight	9'-6"	40.4
A3b	"	68	"	7'-0"	40.5
A3c	"	50	"	5'-0"	21.3
A2a	1/2" φ	10	Bent	43'-0"	28.7
A2b	"	8	"	14'-0"	7.5
A2c	"	3	"	21'-0"	1.3
A3d	1/2" φ	168	"	5'-3"	75.0
A3e	1/2" φ	42	"	4'-9"	17.0
A2d	1/2" φ	2	"	10'-0"	1.3
A1a	3/8" φ	6	Straight	34'-6"	7.8
A1b	"	6	"	16'-6"	3.7
A1c	"	6	"	10'-0"	2.3
A2e	1/2" φ	2	Bent	14'-0"	1.9
A4a	3/8" φ	34	Straight	2'-0"	7.1
R7a	1" φ	8	Bent	28'-9"	61.4
R7b	"	4	"	30'-6"	32.6
R7c	"	4	"	30'-6"	32.6
R2a	1/2" φ	92	Bent	11'-0"	67.4
TOTAL					13,630.8



**ESTIMATED QUANTITIES**

Channel Excavation	487 Cu. Yds.
Excavation (Unclassified)	575 Cu. Yds.
1:5 1/2 Concrete (Superstructure)	71.2 Cu. Yds.
Footers	71.8 Cu. Yds.
1:6 1/2 Concrete Walls	26.2 Cu. Yds.
Reinforcing Steel	136.30 Lbs.
Railing (Type RR-6)	110.7 Lin. Ft.
1/4" Prem. Exp. Joint Filler	34 Sq. Ft.
Wearing Surface on Bridge	137.1 Sq. Yds.
Reinf. Conc. Approach Slabs (10" Thick)	71.4 Sq. Yds.
Wearing Surface on Approach Slabs in case of Brick or Bituminous Type	71.4 Sq. Yds.



**APPROACH SLAB NOTE:** In case of brick or bituminous wearing surface, the same shall be placed over the approach slab. In case of concrete, approach slab shall be raised and its top made flush with wearing surface course on bridge.

Approach slabs are not a part of this contract

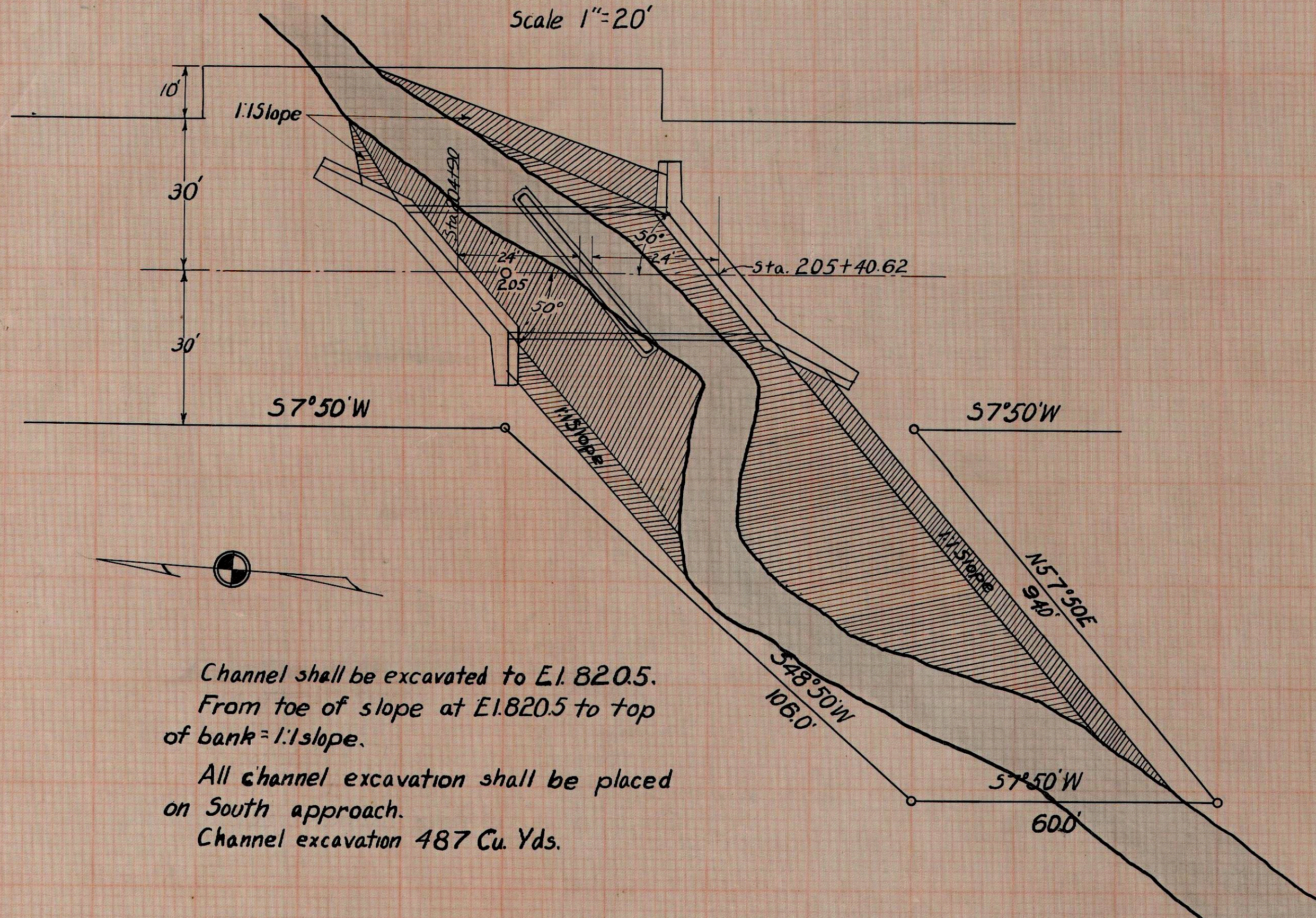
**TWIN-SPAN SLAB BRIDGE OVER BUCKS RUN HOLMES - 343 - E-1**  
 Drawn & Traced by C. Smith Checked & Reviewed by V.A. Coris W.H.E. 2-17-28



204+60 +80 205+00 +20 +40 +60

**SITE PLAN  
CONCRETE BRIDGE**

Station 204+90-205+40.6  
Showing Channel Excavation  
Scale 1"=20'



Channel shall be excavated to E1.820.5.  
From toe of slope at E1.820.5 to top  
of bank = 1:1 slope.  
All channel excavation shall be placed  
on South approach.  
Channel excavation 487 Cu. Yds.

215+20 +40 +60 +80 216+00 +20 +40 +60

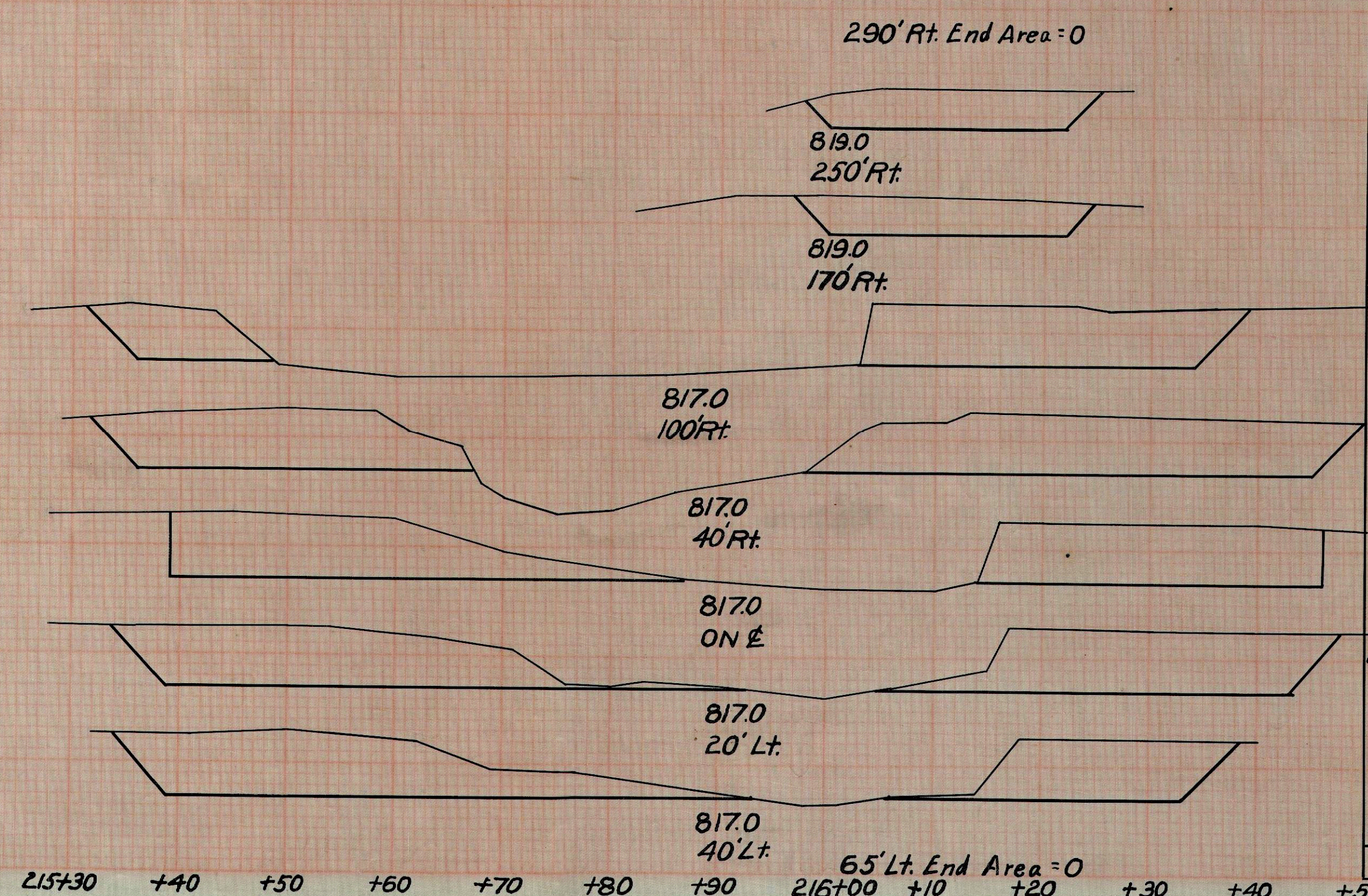
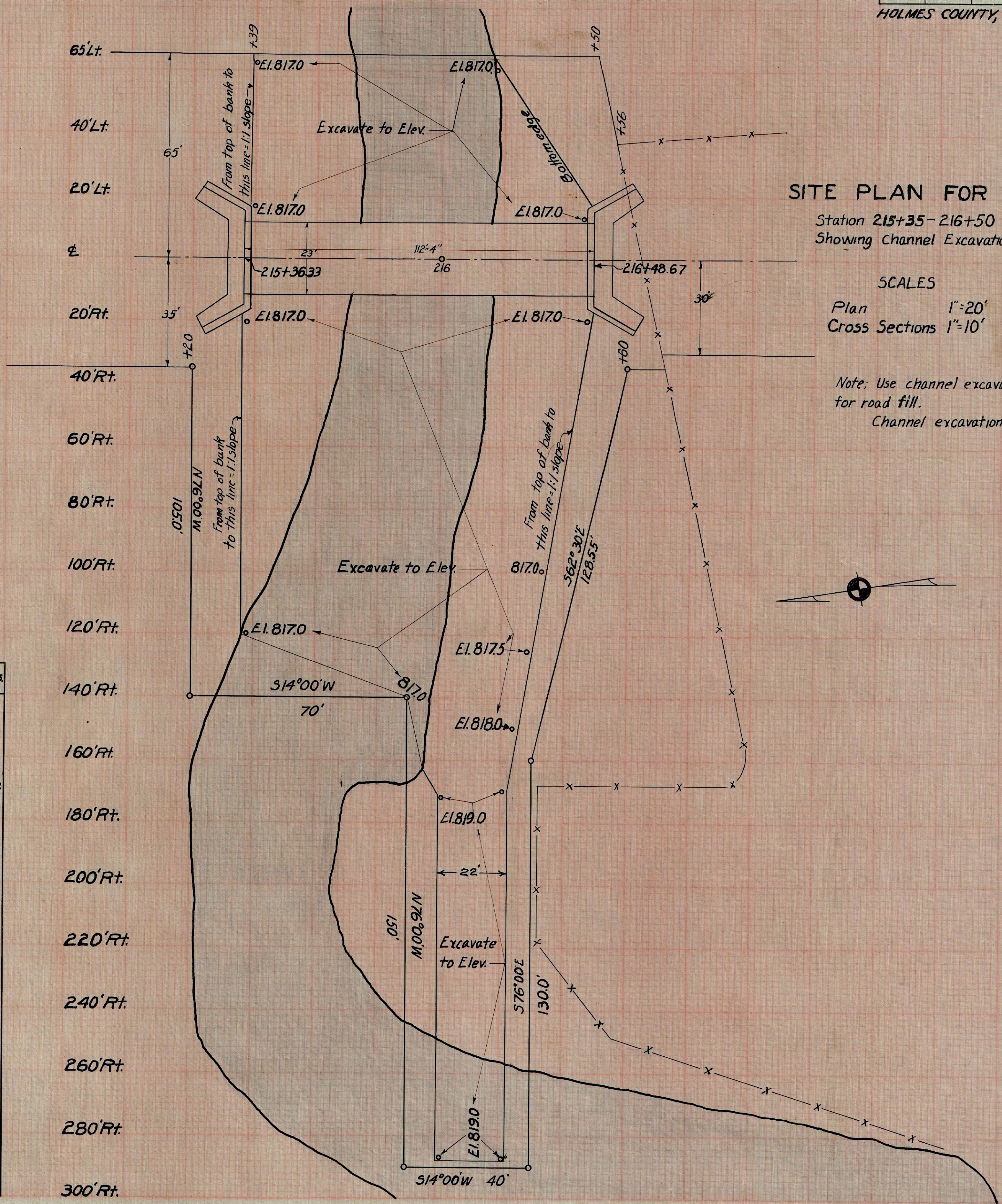
FED. AID DIST. NO.	STATE	FED. ROAD PROJECT	FISCAL YEAR	16 19
10	OHIO	5328	1928	

HOLMES COUNTY, I.C.H. 343, SEC. E-1

**SITE PLAN FOR BRIDGE**  
Station 215+35-216+50  
Showing Channel Excavation

SCALES  
Plan 1"=20'  
Cross Sections 1"=10'

Note: Use channel excavation  
for road fill.  
Channel excavation 2698 Cu. Yds.

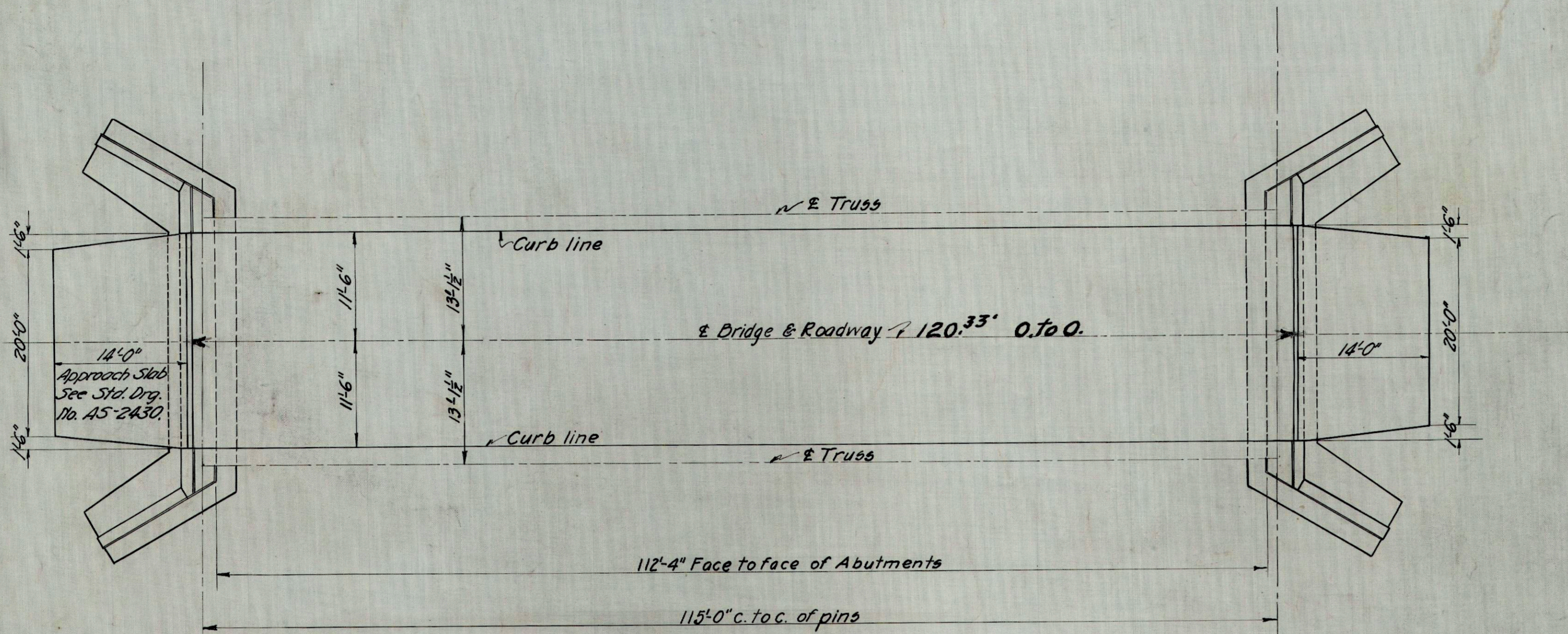


Location	End Area	Cu. Yds. Cut.
290'Rt.	0	
250'Rt.	80	59
170'Rt.	84	243
100'Rt.	243	424
40'Rt.	415	732
ON E	343	561
20'Lt.	379	267
40'Lt.	325	261
65'Lt.	0	151
<b>Total</b>		<b>2698</b>

215+30 +40 +50 +60 +70 +80 +90 216+00 +10 +20 +30 +40 +50



APPROACH SLAB NOTE: In case of Brick or Bituminous Wearing Surface, the same shall be placed over the approach slab. In case of concrete, approach slab shall be raised and its top made flush with wearing surface course on bridge.

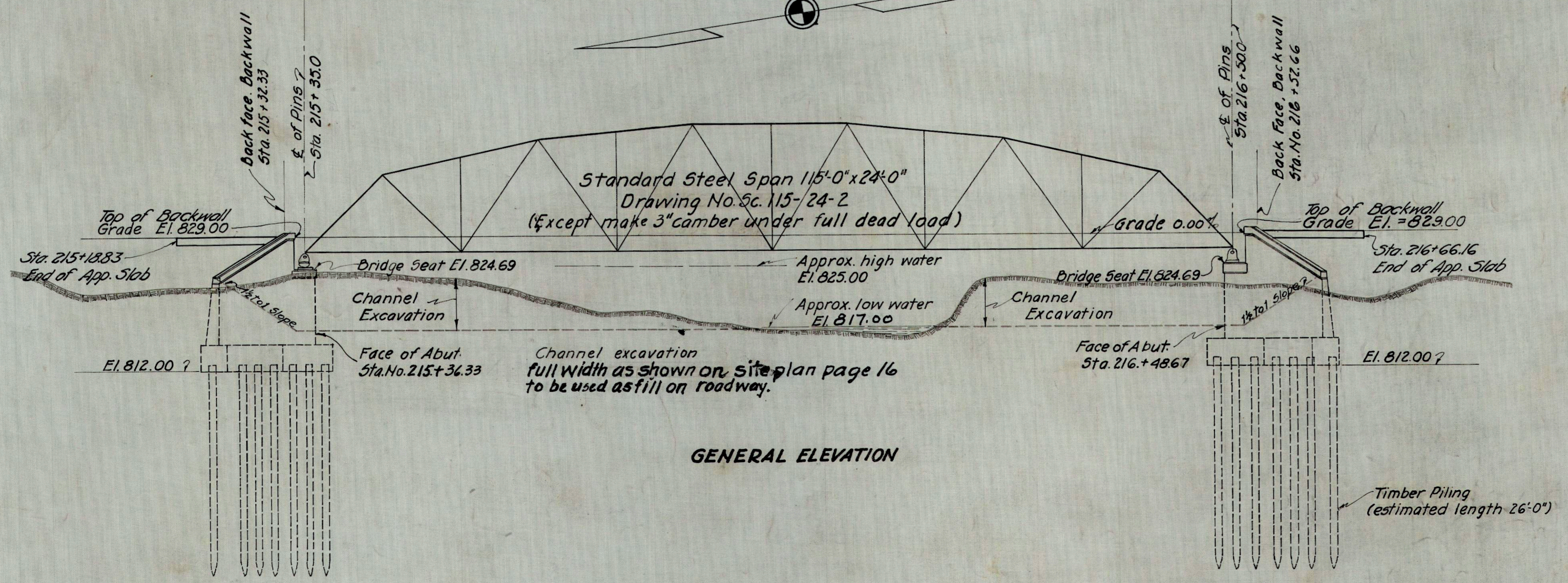


Note - Approach slabs are not a part of this contract

**TOTAL ESTIMATED QUANTITIES**

<b>SUBSTRUCTURE</b>	
Structure Excavation (Unclassified)	415 Cu.Yds.
Channel Excavation	2698 Cu.Yds.
Concrete 1:6½ Mix in footings	108 Cu.Yds.
Concrete 1:6½ Mix in walls	146 Cu.Yds.
Reinforcing Steel	1365 Lbs.
Timber Piling	2912 Lin.Ft.
<b>SUPERSTRUCTURE</b>	
Structural Steel	167,000 Lbs.
Reinforcing Steel	10,700 Lbs.
Concrete 1:5 Mix	57.5 Cu.Yds.
Wearing Surface on Bridge <del>Concrete</del>	287 Sq.Yds.
Reinf. conc. Approach Slabs - 9½" thick	67 Sq.Yds.
Wearing Surface on Approach Slabs in case of Brick or Bituminous Type	67 Sq.Yds.

Not a part of this Contract.

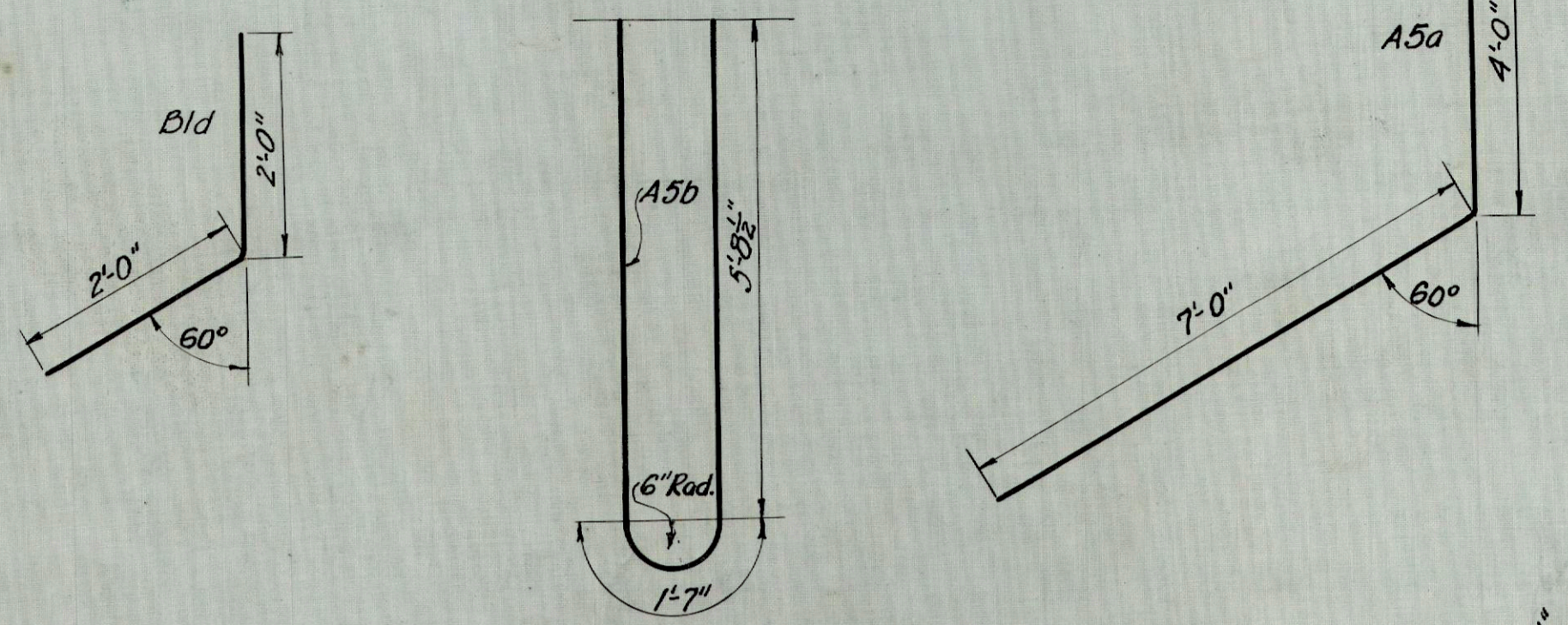


**PLAN & ELEVATION**  
 BRIDGE OVER DOUGHTY CREEK  
 JAN. 1928 HOLMES CO. SH (I.C.H.) 343 SEC. E-1

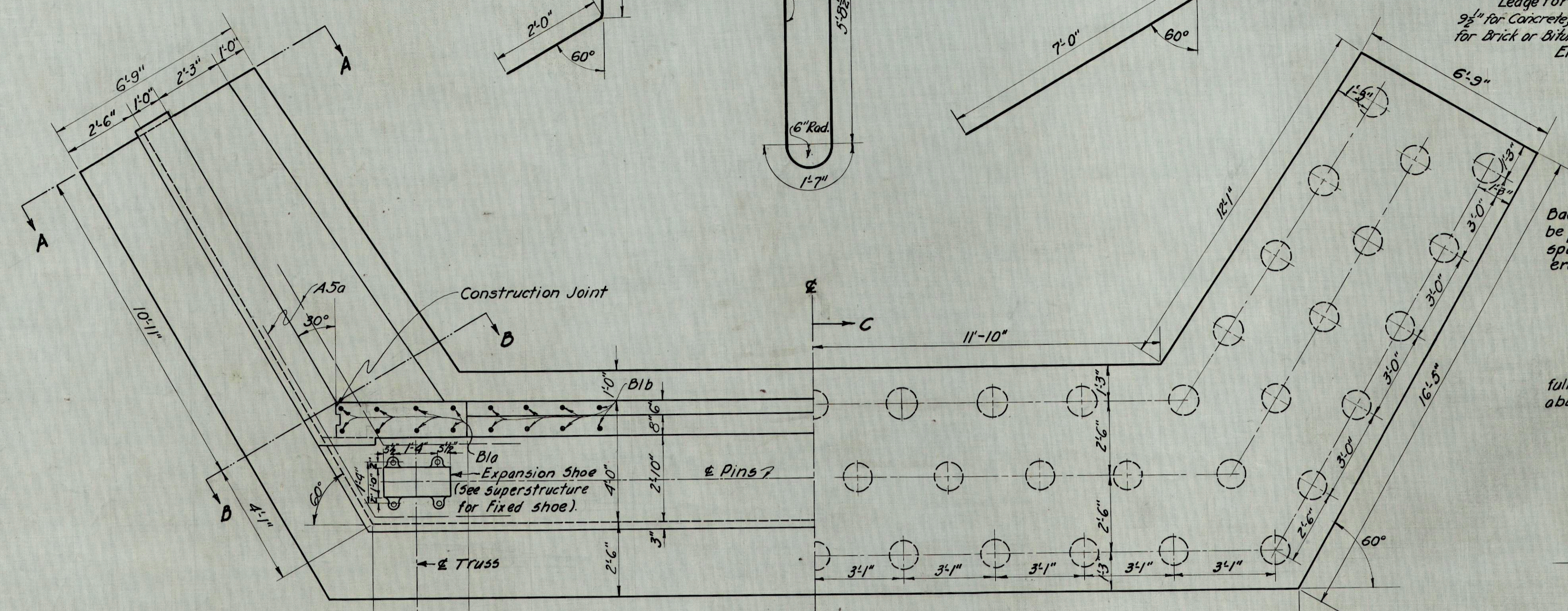
Designed M.X.W.	Drawn H.E.L.	Traced H.E.L.	Checked J.J.H.	Reviewed W.H.R. 2-11-28
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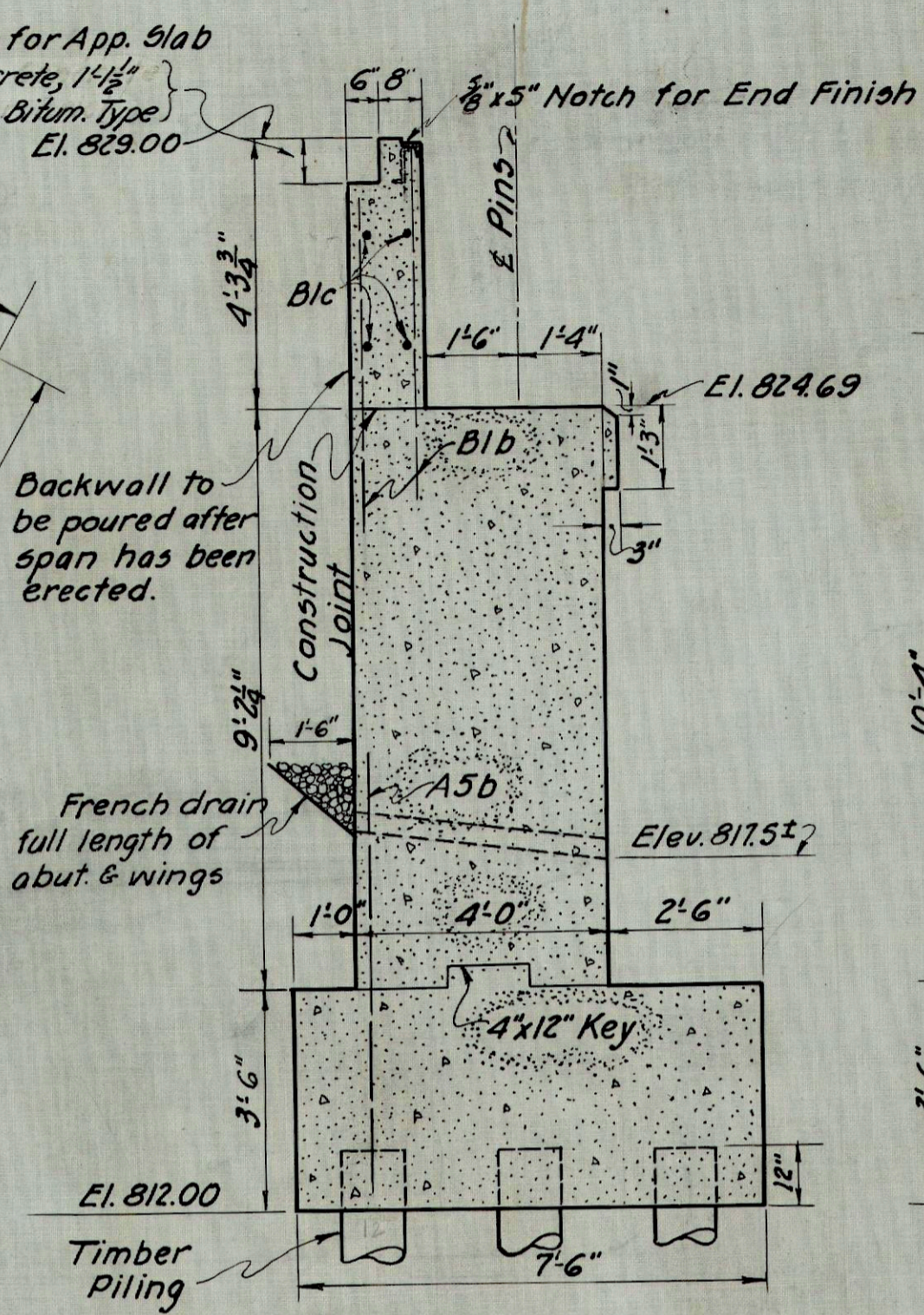
BENDING DIAGRAMS



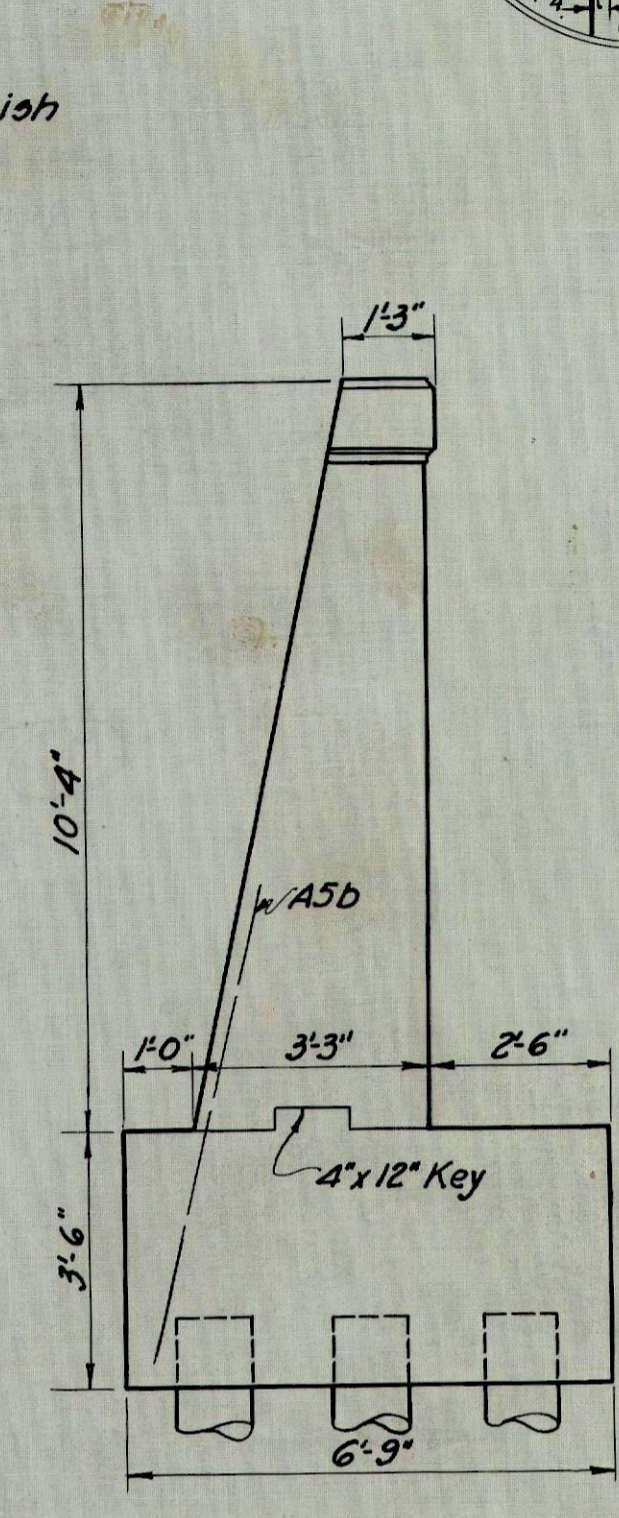
Chamfer for all exposed edges except as otherwise shown.



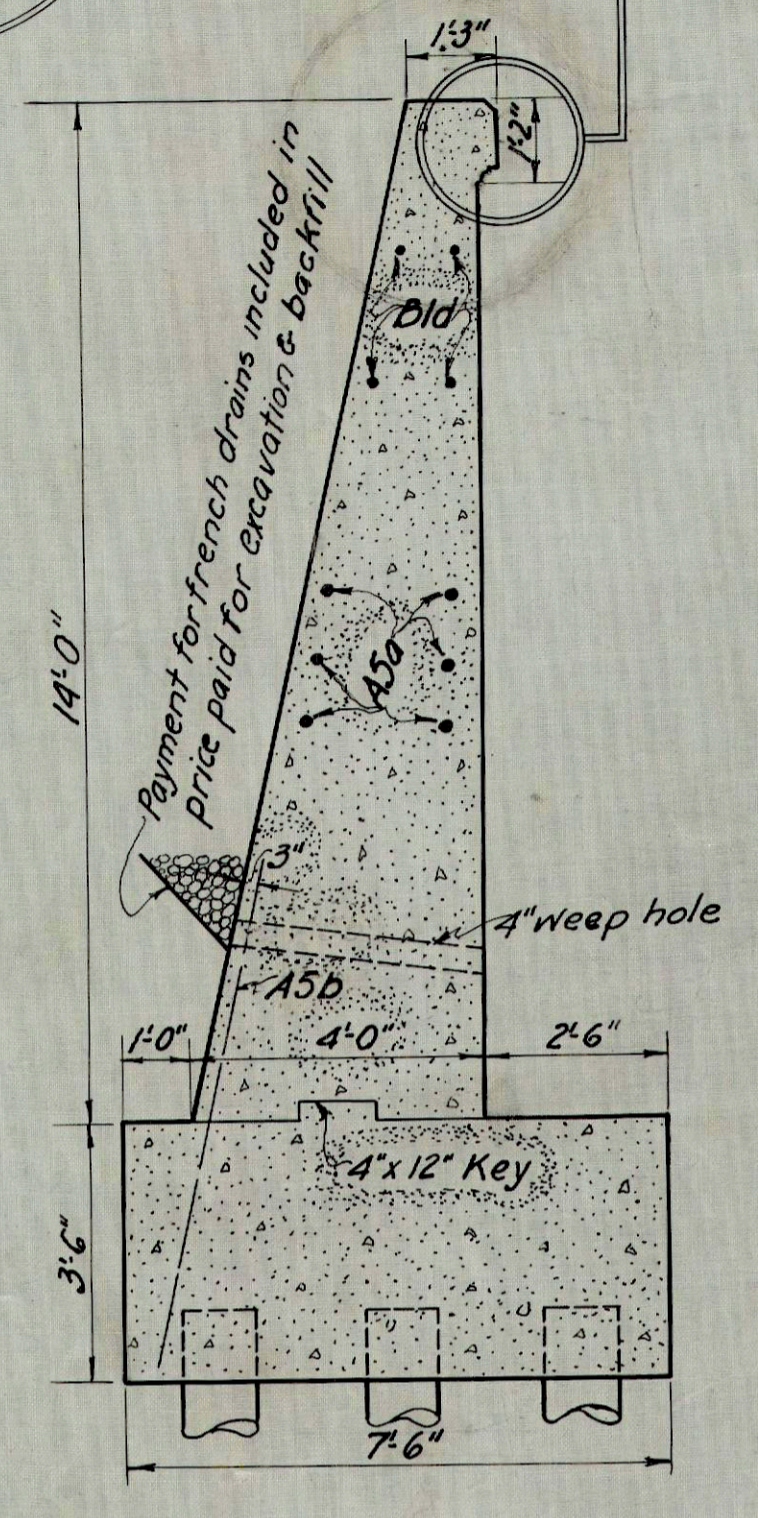
**Construction Joint Note:**  
No horizontal construction joints will be permitted in Abutment wall or wings except in backwall as shown. A vertical construction joint on  $\epsilon$  will be permitted if necessary. If this  $\epsilon$  joint is made it shall be sealed with Type A Waterproofing.



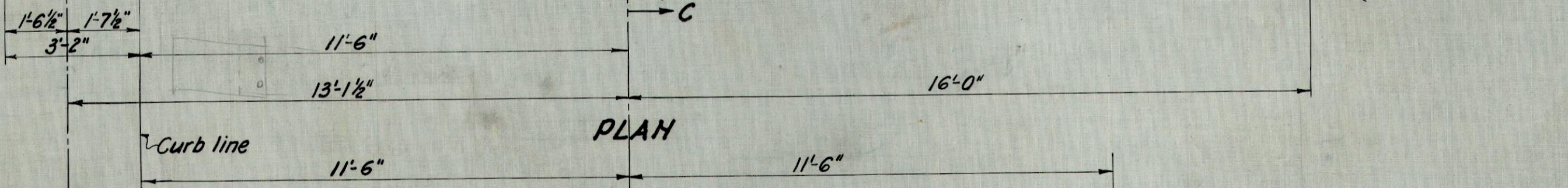
SECTION C-C



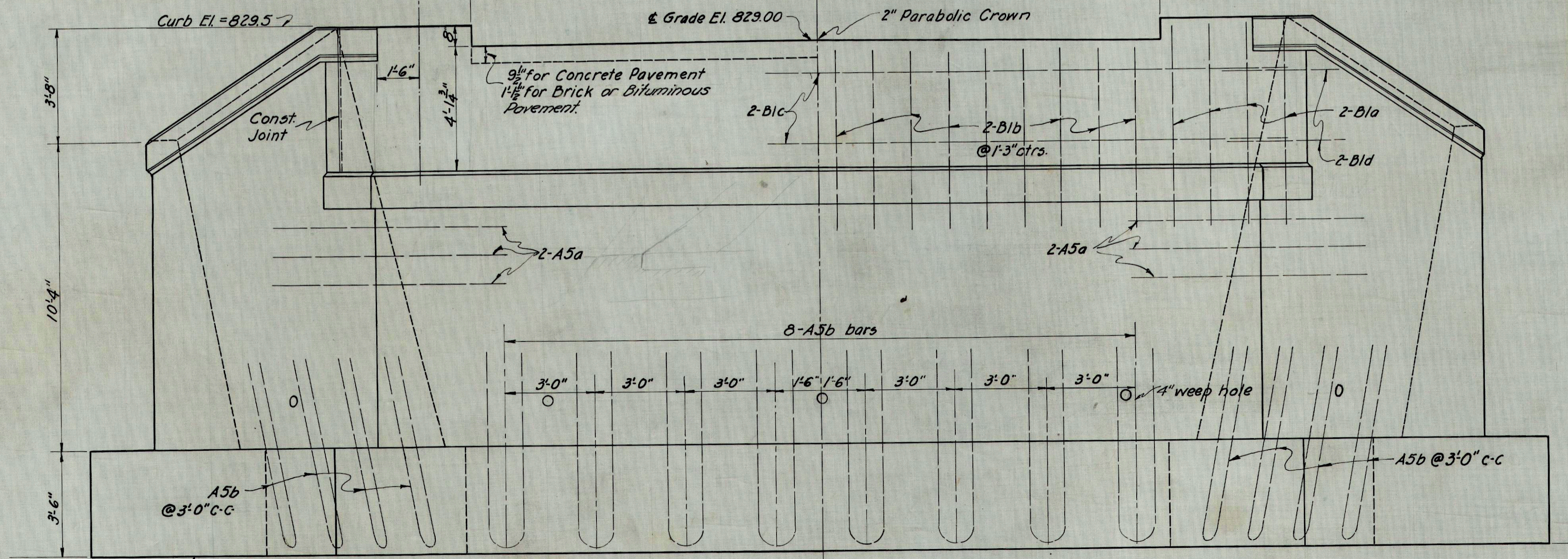
END VIEW A-A



SECTION B-B



PLAN



ELEVATION

**STEEL LIST (2 ABUTTS.)**

Mark	Size	Shape	No.	Length	Weight
A5a	3/4" $\phi$	Bent	24	11'-0"	396
A5b	3/4" $\phi$	Bent	32	13'-0"	625
B1a	3/4" $\phi$	Straight	32	6'-3"	75
B1b	3/4" $\phi$	Straight	72	5'-6"	149
B1c	3/4" $\phi$	Straight	8	32'-0"	96
B1d	3/4" $\phi$	Bent	16	4'-0"	24
				Total	1365

Note: All concrete in abutments to be 1:6 1/2 mix.

**ESTIMATED QUANTITIES**

**TWO ABUTMENTS**

STRUCTURE EXCAVATION-UNCLASSIFIED	415 CU.YD.
CHANNEL EXCAVATION	2698 CU.YD.
CONCRETE-1 1/2 IN FOOTINGS	108 CU.YD.
CONCRETE-1 1/2 IN WALLS	146 CU.YD.
REINFORCING STEEL	1365 LB.
TIMBER PILING	2912 LIN. FT.

Note: Construction specifications in force on date of contract shall govern.

**ABUTMENT DETAILS**  
BRIDGE OVER DOUGHTY CREEK  
JAN. 1928 HOLMES-343-E-1

Designed	Drawn	Traced	Checked	Reviewed
M.X.W.	H.E.L.	H.E.L.	J.J.H.	W.H.R. 2-19-28



# SUMMARY OF QUANTITIES

NO	STATION	TYPE	SIZE	LENGTH	EXCAV. CU. YDS.	EXCAV. CHANNEL CU. YDS.	CONCRETE			REINF. STEEL LBS.	CORR. IRON PIPE			SOL. C.I.P. 18" LIN. FT.	STRUCTURAL STEEL LBS.	TIMBER PILING LIN. FT.	Exp JT. FILLER sq. ft.		WEARING SURF. sq. yd.	Type RR-G CONC. RAILING LIN. FT.		
							1-5 1/2 CU. YDS.	1-6 1/2 CU. YDS.	1-5 CU. YDS.		12" LIN. FT.	15" LIN. FT.	18" LIN. FT.				1/4"	1/2"				
<b>STRUCTURES 20' AND UNDER</b>																						
1.	174+60	Corr. Iron Pipe	12"	42'						42												Lay 12" x 42' Corr. Iron Pipe Rt. - No headwalls
2.	175+24	Sol. Cast Iron Pipe	18"	40'	17				50				40									Build new Std. Cast iron pipe Culvert.
3.	181+30	Sol. Cast Iron Pipe	18"	38'	14				50				38									Build new Std. Cast iron pipe Culvert.
4.	189+50	Sol. Cast Iron Pipe	18"	40'	18				50				40									Build new Std. Cast iron pipe Culvert
5.	193+85	Sol. Cast Iron Pipe	18"	40'	20				50				40									Build new Std. Cast iron pipe Culvert.
7.	211+08	Corr. Iron Pipe	15"	36'									36									Lay 15" x 36' Corr. Iron pipe left. No headwalls.
<b>TOTALS</b>					69			7.6		200		42	36	158								
<b>STRUCTURES OVER 20 FEET</b>																						
6.	205+15.3	Conc. Slabs	24' Rdy.	2 @ 18'-4"	575	487	71.2	168		13630						34		137.1	110.7			Build new Conc. Twin span-Slab Bridge 24' Rdwy. 2 spans @ 18'-4" 40° R. for Slaw.
8.	215+92.5	Std. Steel Span	24' "	115' C to C	415	2698		254	57.5	12065			167000	2912				287				Build new Std. Steel Bdg. 24' Rdwy. 115' C to C.
<b>TOTALS.</b>					990	3185	71.2	422	57.5	25695			167000	2912	34	424.1	110.7					
<b>STRUCTURES FOR PRIVATE DRIVES</b>																						
1.	188+25	Corr. Iron Pipe	15"	18'									18									Lay 15" x 18' Corr. iron pipe Rt.
2.	193+50	" " "	12"	36'						36												Lay 12" x 36" " " " Left.
3.	193+60	" " "	12"	16'						16												Lay 12" x 16' " " " Rt.
4.	219+80	" " "	18"	18'									18									Lay 18" x 18' " " " Left.
5.	221+40	" " "	18"	18'									18									Lay 18" x 18' " " " Left.
<b>TOTALS</b>										52	18	36										

## ROADWAY QUANTITIES

EXCAVATION	12199 C.Y.
BORROW	1406 " "
GRAVEL BORROW	246 " "
GUARD RAIL TYPE "E"	1690 Lin. Ft.
FINISHING SHOULDERS + DITCHES BOTH SIDES	5497 " "

From Station	To Station	Side of Road	Lin Ft.
175+70	181+00	Lft	530
183+30	187+50	Lft.	420
187+80	189+80	Lft.	200
214+02	215+32	Lft.	130
214+02	215+32	Rt.	130
216+53	217+93	Lft	140
216+53	217+93	Rt.	140
<b>TOTAL</b>			<b>1690</b>

From Station	To Station	CUBIC YARDS					CHANNEL EXCAVATION USED FOR ROADWAY	FILL C.Y.
		Excav.	Emb.	Emb+20%	Borrow	Gravel/Borrow		
170+81.3	174+17	319	266	319				
174+17	178+69.3	1074	903	1083	9			
187+80	189+80							
214+02	215+32							
214+02	215+32							
216+53	217+93							
216+53	217+93							
178+69.3	181+95	1021	851	1021				
181+95	187+90	1972	1643	1972				
187+90	190+73	1046	871	1046				
190+73	205+00	4243	3535	4243				
205+00	211+00	356	1179	1415	572		487	
211+00	215+32.3	1594	2344	2813	319		900	
215+32.3	220+50.4	357	1748	2097	240		1500	
220+50.4	224+00	179	371	445	266			
224+00	227+47.1	38	237	284		246		
<b>TOTALS</b>		<b>12199</b>	<b>13948</b>	<b>16738</b>	<b>1406</b>	<b>246</b>	<b>2887</b>	