

#9032

#8032

Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

1
34

I.C.H. No. 53, Sec. E.
Wood County

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
BUREAU OF CONSTRUCTION
TOLEDO-GRAND RAPIDS ROAD
I.C.H. No. 53. SECTION E. PET. No. 4416.
WOOD COUNTY
MIDDLETON and PERRYSBURG TOWNSHIPS

JAN. 1923.

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Handwritten notes:
Wood County 1923
Pet. No. 4416
1/21/23
Council about work
quitting 7:30

Handwritten note:
1/21/23
Council about work
quitting 7:30

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: L.L. Stinebaugh
Date, Jan 22-23 Resident Engineer

Approved: M.J. Shanahan 4/7/24
Date, Jan 22-23 Division Engineer

Approved: H. J. Adlberger 4/9/24
Date, 4/7/23 State Highway Engineer

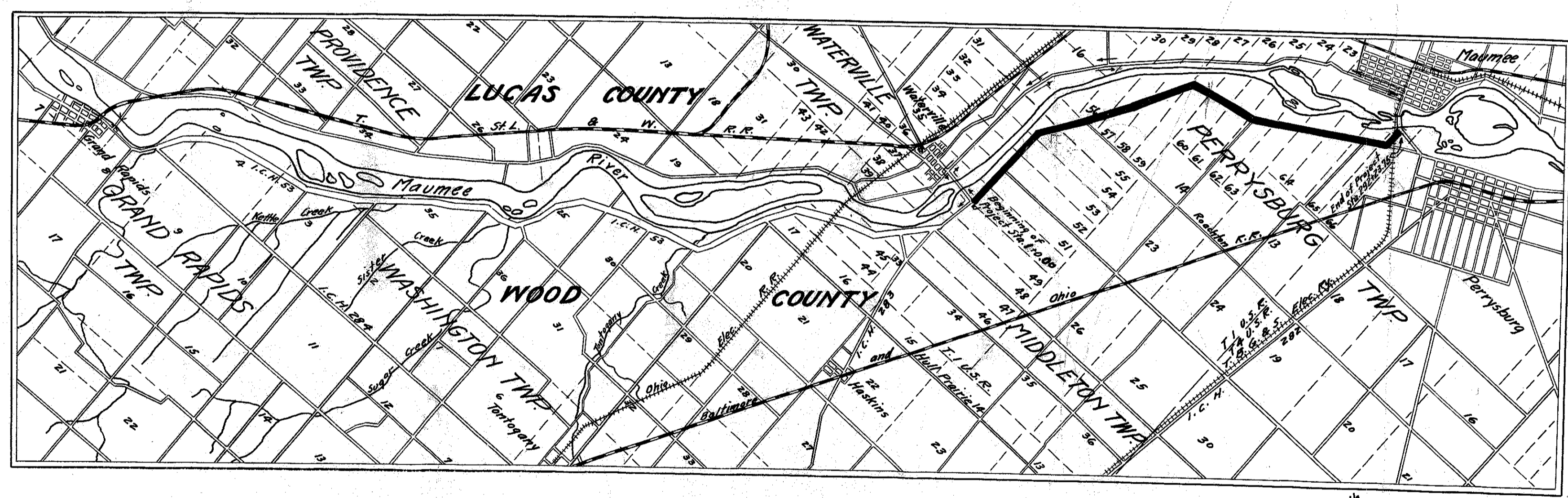
Approved: Lem C. Herrick LaBoulay 4/9/24
Date, 6/7/23 Director of Highways and Public Works

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 TTTTTTTT
 - Steam Railroad _____
 - Electric Line _____



LOCATION PLAN

SCALE OF MILES
0 1/4 1/2 3/4 1 2 3

PORTION TO BE IMPROVED DETOURS SHOWN THUS

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

We the Commissioners of Wood 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.

L. P. Eggleston
Ed. Leathers
D. J. Pettys

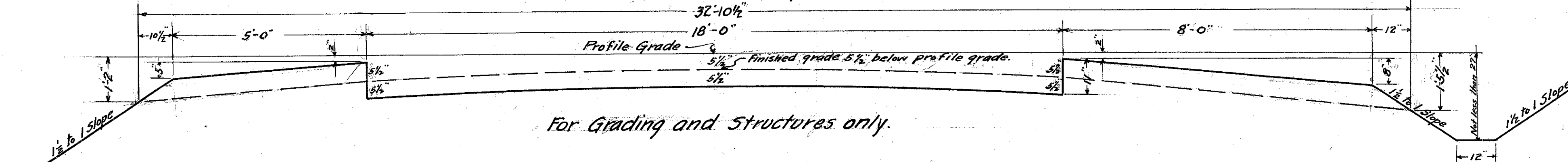
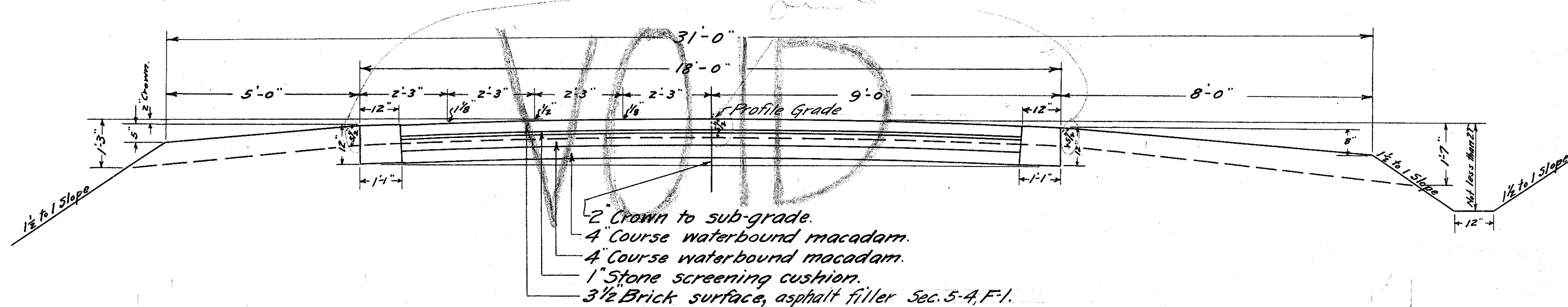
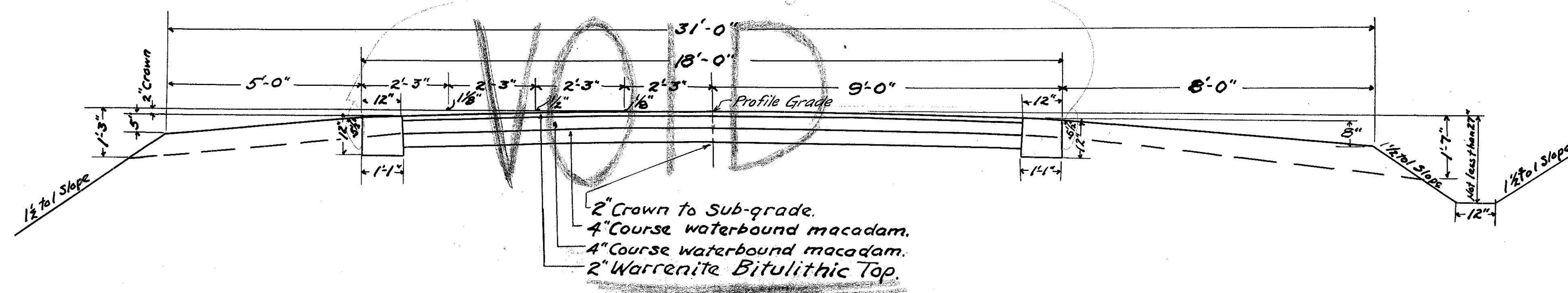
Date January 22-1923 County Commissioners.

CONSTRUCTION BUREAU
JUL 28 1955
GROUND PHOTOLAB

Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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Wood County.



For Grading and Structures only.

NOTES

Rough grading will be completed to the cross-section indicated by dash line. Pavement trench will be excavated and shoulders built immediately preceding placing of pavement.

Original plan for road 11" deep, for road 12 1/2" in depth raise finished grade line .07.

Excavation quantities calculated from cross-section for road 11" deep. Excavation for road 12 1/2" deep will be greater as follows: Sec. E, 17350 lin. ft. in cut or 90 cu. ft. extra per lin. ft. = 578 cu. yds.

Original calculation of earthwork was made using a 11" templet, giving a total excavation of 28115 cu. yds., which includes 2633 cu. yds. borrow.

An inspection of the cross-sections shows that there is 17000 lin. ft. of cut and 12200 lin. ft. of fill under the pavement.

Adjustment of Excavation
On the Brick Type with a 12 1/2" templet there will be 0.084 cu. yds. extra cut per lin. ft. over 17000 lin. ft., or 1428 cu. yds. On fill of 12200 lin. ft. the excavation will be reduced by 0.084 cu. yds. plus 15% per lin. ft. or 1178 cu. yds. For the total excavation we then have 28115 + 1428 - 1178 = 28365 cu. yds. from which, if borrow of 2633 cu. yds. is subtracted, there is a balance of 25732 cu. yds.

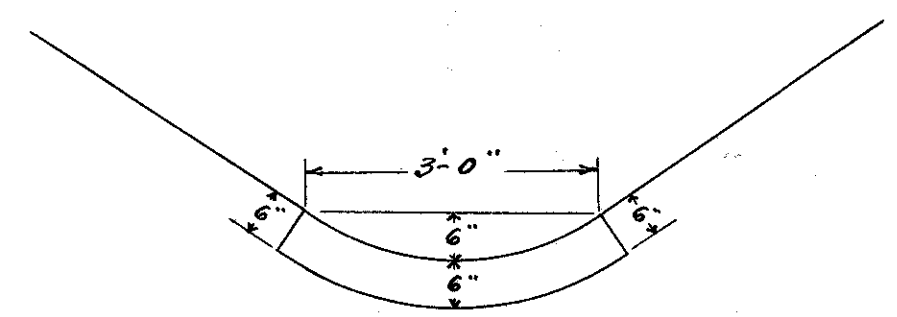
On the Bitulithic Type with a 10" templet there will be no change in excavation over cut sections, because what is not taken off the center will have to be borrowed from the side ditches to balance. On 12200 lin. ft. fill the excavation will be increased by 0.05 cu. yds. plus 15% per lin. ft. or 702 cu. yds. The total is therefore 28115 + 702 = 28817 cu. yds. from which, if borrow of 2633 cu. yds. is subtracted, there is a balance of 26184 cu. yds.

Computations

Road begins Sta. 1+00 and ends Sta. 292+23.75 which after deducting 213.6 ft. for short station (181 to 184 = 86.4 ft.) gives a total length of 28910.15 ft. Area of pavement 16 ft. wide over the above length is 51390 sq. yds. Adding 947 sq. yds. for extra pavement on curves, etc. we have the total area of top course for all types 52343 sq. yds.

Width of base is taken as 1" narrower than top which gives a total area of 51129 sq. yds. Deducting 42 sq. yds. for bridge Sta. 176 and adding 947 sq. yds. for curve widening, etc., we have the area for base, 52034 sq. yds.

The length of curb is equal to twice the length of the road, 28910.15 ft. minus 22 1/2" for bridge Sta. 176 (2 x 28887.65) or 57775 lin. ft.



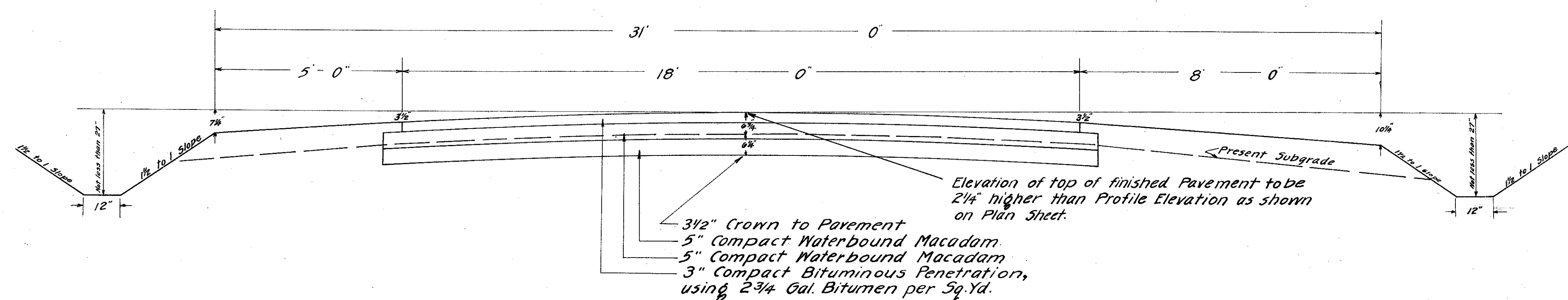
Section for Standard Concrete Gutter as called for in these plans.

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR
10	OHIO	371	1923-24

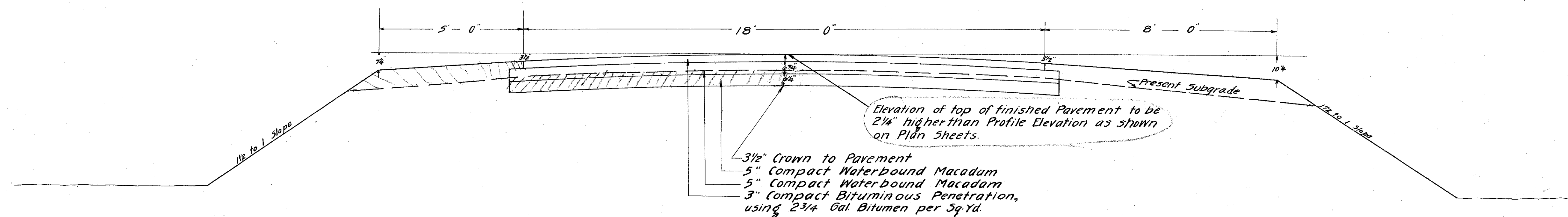
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I. C. H. No. 53, Sec. E.
WOOD COUNTY.

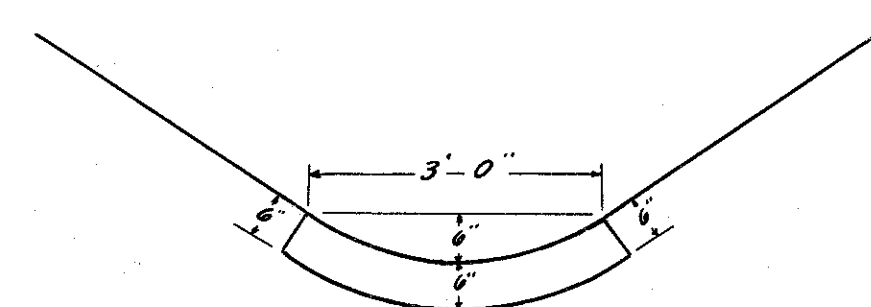
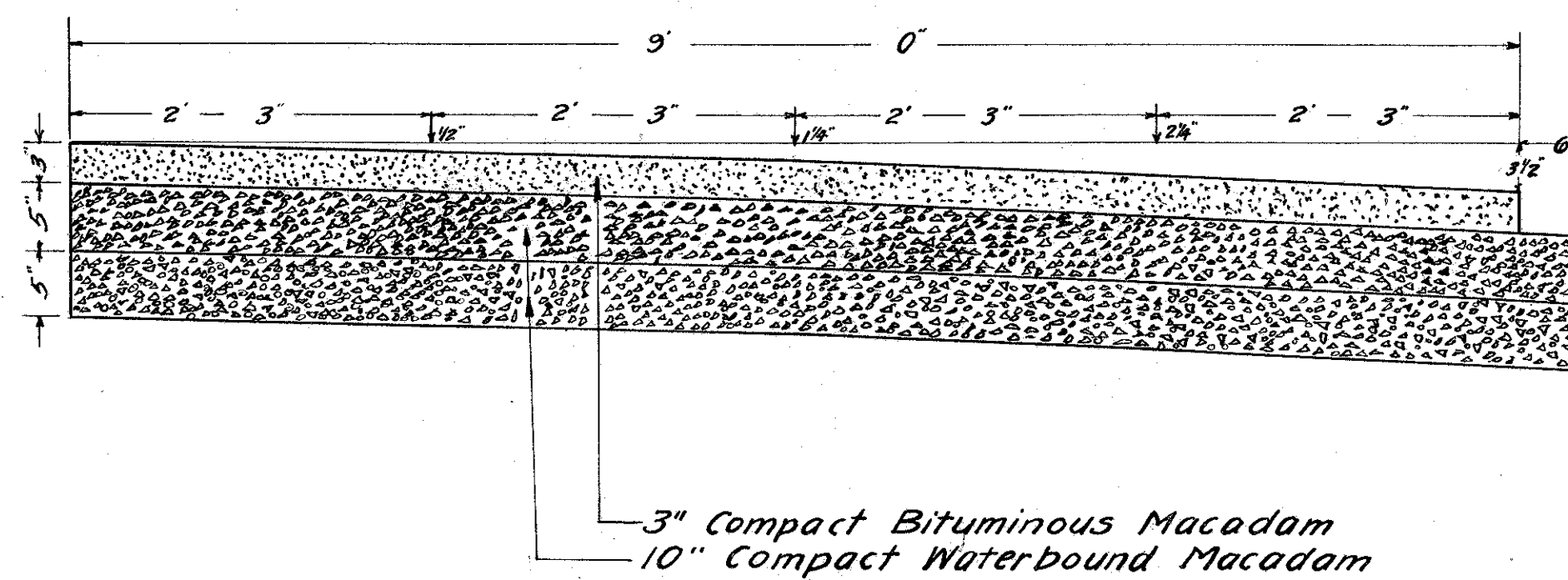
TYPICAL CROSS SECTION IN CUT



TYPICAL CROSS SECTION IN FILL



HALF CROSS SECTION OF PAVEMENT

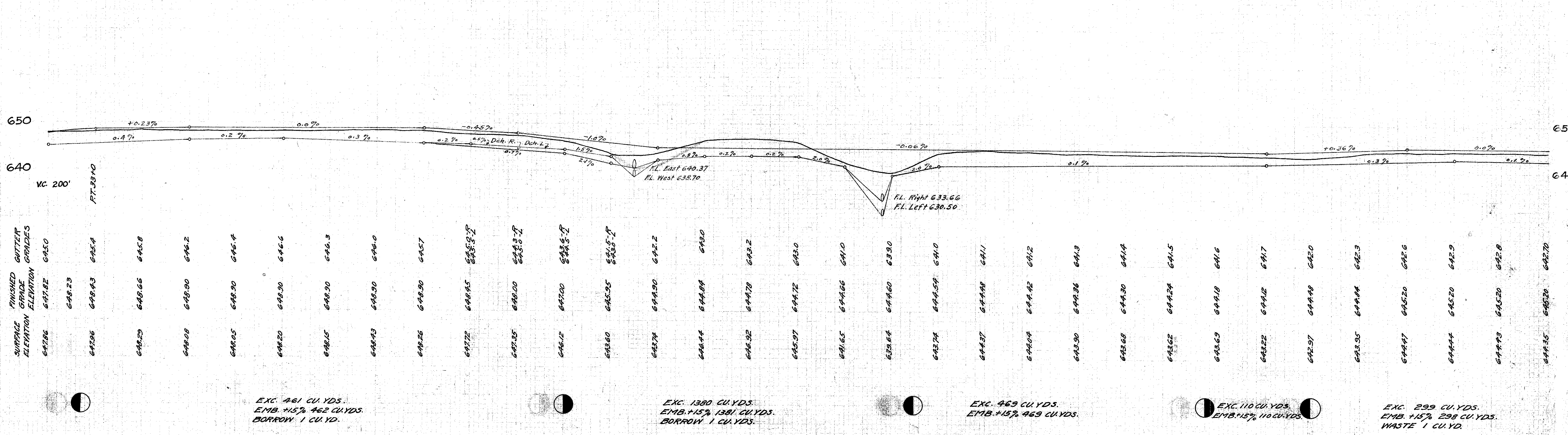
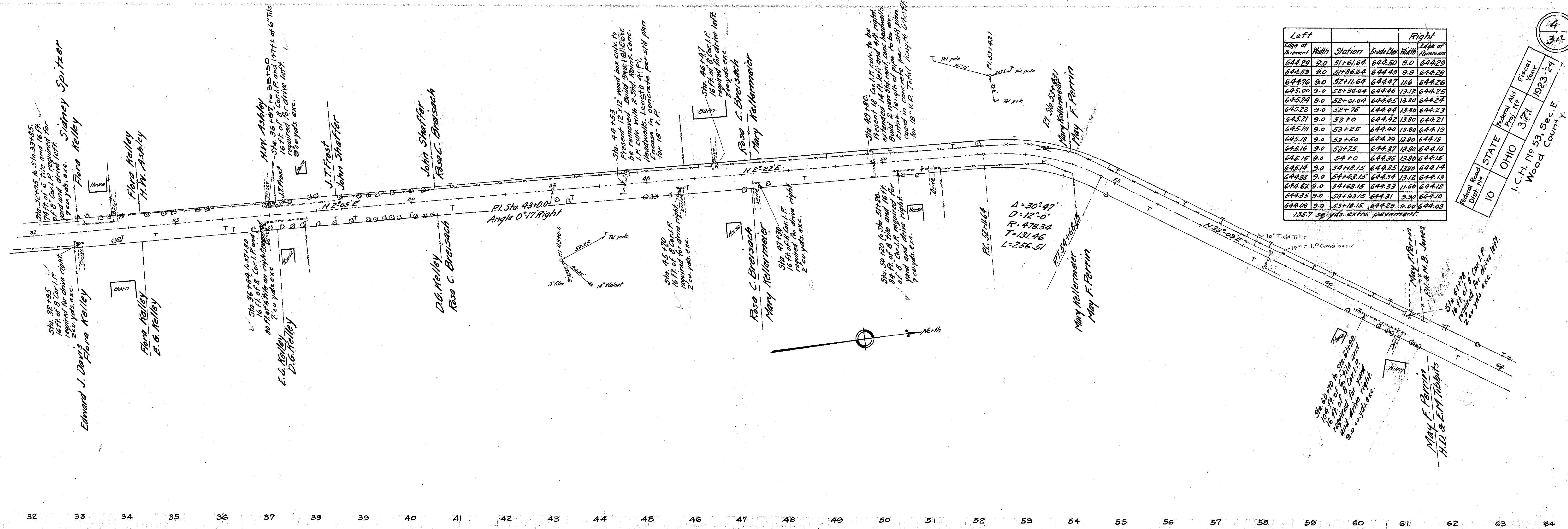


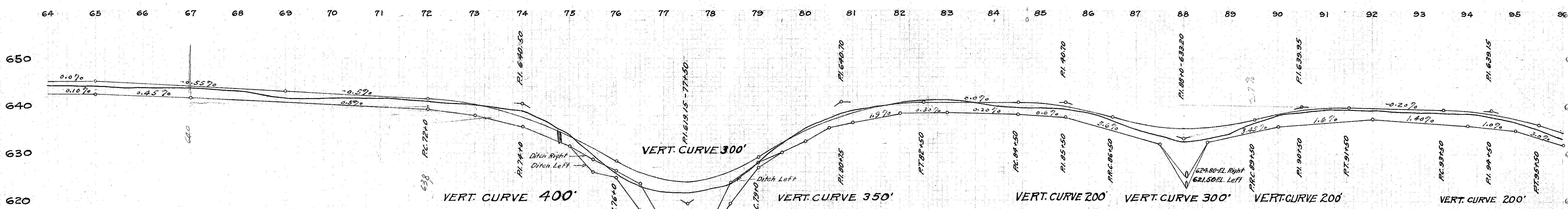
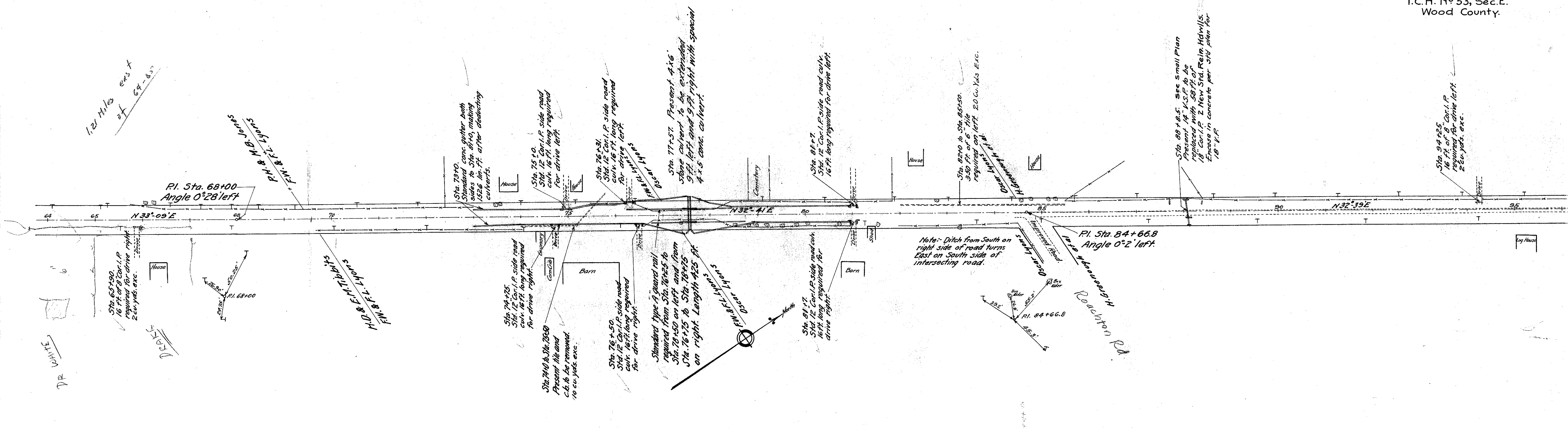
Section for Standard Concrete Gutter as called for in these plans. Concrete to be of 1-2-4 mixture.

Left		Right			
Edge of Pavement	Width	Station	Grade Elev.	Width	Edge of Pavement
644.29	9.0	51+61.64	644.50	9.0	644.29
644.53	9.0	51+86.64	644.49	9.9	644.28
644.76	9.0	52+11.64	644.47	11.6	644.26
645.00	9.0	52+36.64	644.46	13.12	644.25
645.24	9.0	52+61.64	644.45	13.80	644.24
645.21	9.0	52+78	644.44	13.80	644.23
645.19	9.0	53+25	644.40	13.80	644.19
645.18	9.0	53+50	644.39	13.80	644.18
645.16	9.0	53+75	644.39	13.80	644.16
645.15	9.0	54+0	644.36	13.80	644.15
645.14	9.0	54+18.15	644.35	13.80	644.14
644.89	9.0	54+43.15	644.34	13.12	644.13
644.62	9.0	54+68.15	644.33	11.60	644.12
644.35	9.0	54+93.15	644.31	9.90	644.10
644.08	9.0	55+18.15	644.29	9.00	644.08
135.7 sq. yds. extra pavement.					

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SURFACE ELEVATION	FINISHED GRADE ELEVATION	DITCH GRADES
644.35	645.20	642.70
644.13	645.20	642.60
643.92	644.65	642.15
643.80	644.10	641.75
643.05	643.55	641.25
641.62	643.00	640.75
641.60	642.50	640.25
641.66	642.00	639.75
640.89	641.50	639.25
640.08	641.08	638.60
639.99	640.30	638.00
639.95	639.18	636.25
639.70	637.70	635.50
635.88	633.55	633.55
633.70	633.70	631.60
629.66	631.18	628.00% 628.70%
625.68	628.30	625.80% 626.20%
623.04	625.78	618.00% 623.50%
621.50	624.32	610.00% 624.00%
621.64	623.92	
622.26	624.58	625.80% 626.20%
623.85	626.31	623.80% 623.30%
622.96	629.10	628.00% 627.00%
632.09	632.17	630.0
635.34	634.78	632.60
637.34	636.91	635.30
639.03	638.57	636.30
639.75	639.75	
640.55	640.46	638.20
640.70	640.70	
641.23	640.70	638.50
640.04	640.70	638.30
640.70	640.70	
640.51	640.51	637.90
639.95	639.95	637.60
638.59	639.01	636.20
637.70	637.70	634.80
636.43	636.43	633.40
635.65	635.65	632.00
635.34	635.34	
635.50	635.50	632.35
636.13	636.13	633.50
637.25	637.25	
638.42	638.42	632.80
639.23	639.23	
639.67	639.67	636.60
639.75	639.75	
639.65	639.65	637.40
639.45	639.45	
639.45	639.45	636.70
639.35	639.35	
639.02	639.02	636.00
638.64	638.64	
638.45	638.45	635.00
638.15	638.15	
634.65	634.65	632.00

EXC. 112 CU. YDS. EMB. +15% 113 CU. YDS. BORROW 1 CU. YD.
 EXC. 98 CU. YDS. EMB. +15% 98 CU. YDS.
 EXC. 1074 CU. YDS. EMB. +15% 1075 CU. YDS. BORROW 1 CU. YD.
 EXC. 1066 CU. YDS. EMB. +15% 1067 CU. YDS. BORROW 1 CU. YD.
 EXC. 499 CU. YDS. EMB. +15% 501 CU. YDS. BORROW 2 CU. YDS.
 EXC. 352 CU. YDS. EMB. +15% 352 CU. YDS.
 EXC. 305 CU. YDS. EMB. +15% 304 CU. YDS. WASTE & CU. YDS.

I. C. H. No. 53, Sec. E.
Wood County.

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Edge of Pav.	Width	Station	Grade Elev.
637.45	9.00	107+88.3	637.66	9.00	637.45		
637.07	9.00	108+13.3	637.09	9.00	636.88		
636.62	9.00	108+38.3	636.45	9.00	636.24		
636.03	9.00	108+63.3	635.67	9.00	635.46		
635.72	9.00	108+75.0	635.26	9.00	635.05		
634.86	9.00	109+00.0	634.31	9.00	634.10		
633.85	9.00	109+25.0	633.30	9.00	633.09		
632.84	9.00	109+50.0	632.29	9.00	632.08		
632.02	9.00	109+71.2	631.47	9.00	631.26		
630.96	9.00	109+96.2	630.61	9.00	630.40		
630.04	9.00	110+21.2	629.87	9.00	629.66		
628.22	9.00	110+46.2	629.24	9.00	628.03		
627.52	9.00	110+71.2	628.73	9.00	627.52		

No extra pavement

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Edge of Pav.	Width	Station	Grade Elev.
639.78	9.00	116+40.7	639.99	9.00	639.78		
639.79	9.00	116+65.7	640.00	9.00	640.04		
639.79	10.74	116+90.7	640.00	9.00	640.29		
639.79	11.10	117+00.0	640.00	9.00	640.33		
639.79	11.74	117+15.7	640.00	9.00	640.54		
639.79	12.20	117+40.7	640.00	9.00	640.79		
639.79	12.20	117+50.0	640.00	9.00	640.79		
639.79	12.20	117+75.0	640.00	9.00	640.79		
639.58	12.20	118+00.0	639.79	9.00	640.58		
639.50	12.20	118+09.4	639.71	9.00	640.50		
639.21	11.74	118+34.4	639.42	9.00	639.76		
638.80	10.74	118+59.4	639.01	9.00	639.30		
638.30	9.60	118+84.4	638.51	9.00	638.55		
637.92	9.20	119+09.4	638.13	9.00	638.01		
637.69	9.00	119+09.4	637.90	9.00	637.69		

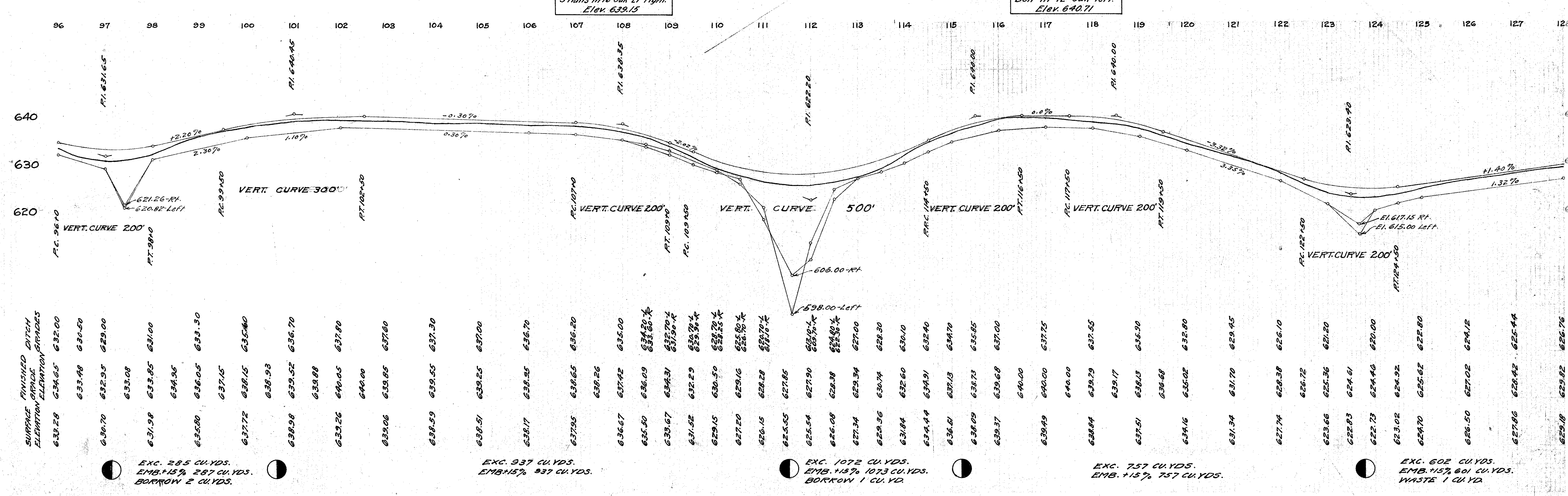
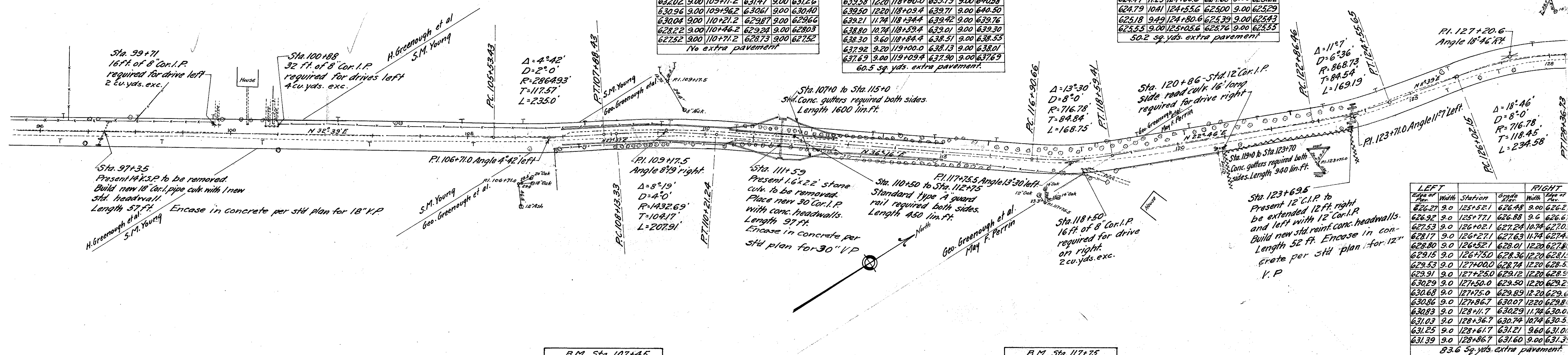
60.5 sq. yds. extra pavement.

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Edge of Pav.	Width	Station	Grade Elev.
626.96	9.00	122+36.5	627.17	9.00	626.96		
626.16	9.49	122+61.5	626.37	9.00	626.41		
625.41	10.41	122+86.5	625.67	9.00	625.91		
625.15	11.11	123+00.0	625.36	9.00	625.90		
624.95	11.23	123+11.3	625.16	9.00	625.95		
624.55	11.60	123+36.5	624.76	9.00	625.55		
624.40	11.60	123+50.0	624.61	9.00	625.40		
624.28	11.60	124+05.6	624.49	9.00	625.28		
624.47	11.23	124+30.6	624.68	9.00	625.22		
624.79	10.41	124+55.6	625.00	9.00	625.29		
625.18	9.49	124+80.6	625.39	9.00	625.43		
625.53	9.00	125+05.6	625.76	9.00	625.55		

50.2 sq. yds. extra pavement

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Edge of Pav.	Width	Station	Grade Elev.
626.27	9.00	125+52.1	626.48	9.00	626.27		
626.92	9.00	125+77.1	626.88	9.6	626.67		
627.53	9.00	126+02.1	627.24	10.74	627.03		
628.17	9.00	126+27.1	627.63	11.74	627.43		
628.80	9.00	126+52.1	628.01	12.20	627.80		
629.15	9.00	126+75.0	628.36	12.20	628.15		
629.53	9.00	127+00.0	628.74	12.20	628.53		
629.91	9.00	127+25.0	629.12	12.20	628.91		
630.29	9.00	127+50.0	629.50	12.20	629.29		
630.68	9.00	127+75.0	629.89	12.20	629.68		
630.86	9.00	127+86.7	630.07	12.20	629.86		
630.83	9.00	128+11.7	630.29	11.74	630.01		
631.03	9.00	128+36.7	630.74	10.74	630.53		
631.25	9.00	128+61.7	631.21	9.60	631.01		
631.39	9.00	128+86.7	631.60	9.00	631.39		

83.6 sq. yds. extra pavement.



EXC. 28.5 CU. YDS.
EMB. +15% 287 CU. YDS.
BORROW 2 CU. YDS.

EXC. 937 CU. YDS.
EMB. +15% 937 CU. YDS.

EXC. 1072 CU. YDS.
EMB. +15% 1073 CU. YDS.
BORROW 1 CU. YD.

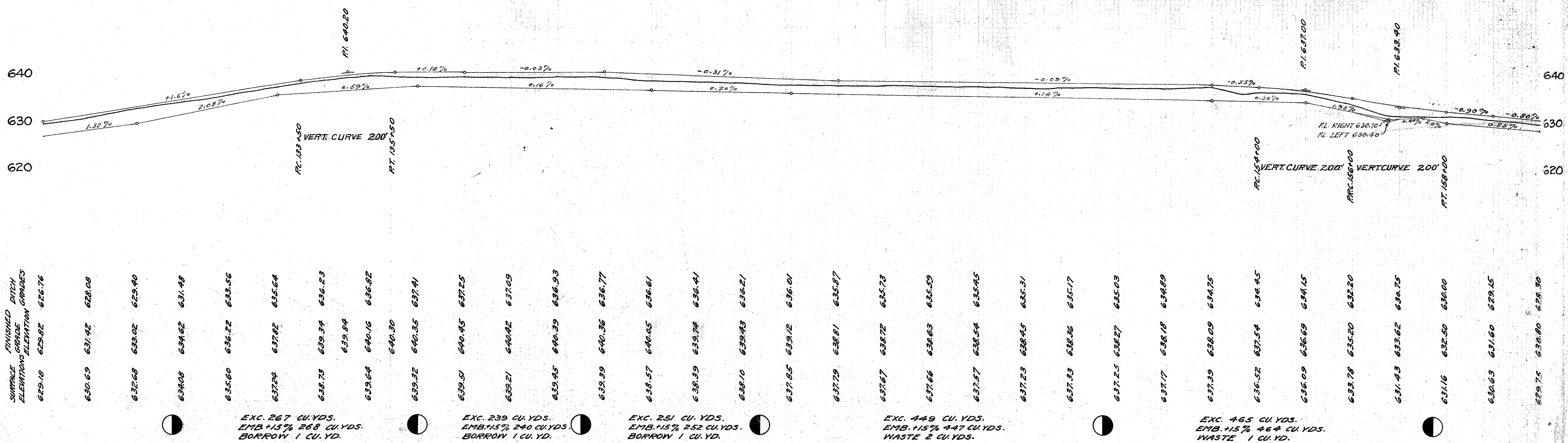
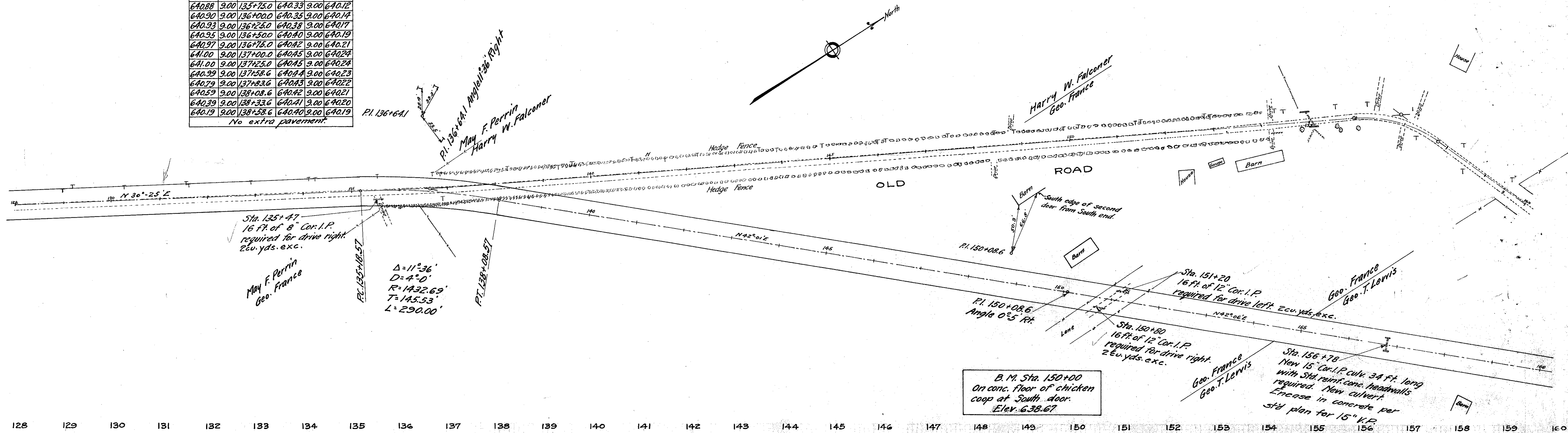
EXC. 757 CU. YDS.
EMB. +15% 757 CU. YDS.

EXC. 602 CU. YDS.
EMB. +15% 601 CU. YDS.
WASTE 1 CU. YD.

I.C.H. No 53, Sec. E.
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LEFT			RIGHT		
Edge of Pav.	Width	Station	Edge of Pav.	Width	Station
639.69	9.00	134+68.6	639.30	9.00	639.69
639.96	9.00	134+93.6	639.98	9.00	639.77
640.37	9.00	135+18.6	640.20	9.00	639.99
640.60	9.00	135+43.6	640.24	9.00	640.03
640.87	9.00	135+68.6	640.32	9.00	640.11
640.88	9.00	135+75.0	640.33	9.00	640.12
640.90	9.00	136+00.0	640.35	9.00	640.14
640.93	9.00	136+25.0	640.38	9.00	640.17
640.95	9.00	136+50.0	640.40	9.00	640.19
640.97	9.00	136+75.0	640.42	9.00	640.21
641.00	9.00	137+00.0	640.45	9.00	640.24
641.00	9.00	137+25.0	640.45	9.00	640.24
640.99	9.00	137+50.0	640.44	9.00	640.23
640.79	9.00	137+83.6	640.43	9.00	640.22
640.59	9.00	138+08.6	640.42	9.00	640.21
640.39	9.00	138+33.6	640.41	9.00	640.20
640.19	9.00	138+58.6	640.40	9.00	640.19

No extra pavement.



Station	Surface Elevation	Finished Ditch Elevation	Excavation	Embankment	Borrow	Waste
629.18	629.82	626.76				
630.69	631.42	628.08				
632.68	633.02	629.40				
634.08	634.62	631.48				
635.60	636.22	633.56				
637.24	637.82	635.64				
638.73	639.34	636.23				
639.64	640.16	636.82				
640.30						
639.32	640.35	637.41				
639.51	640.45	637.25				
639.21	640.42	637.09				
639.45	640.39	636.93				
639.39	640.36	636.77				
638.57	640.25	636.61				
638.39	639.74	636.41				
638.10	639.43	636.21				
637.85	639.12	636.01				
637.79	638.81	635.87				
637.67	638.72	635.73				
637.66	638.63	635.59				
637.57	638.54	635.45				
637.23	638.45	635.31				
637.33	638.36	635.17				
637.25	638.27	635.03				
637.17	638.18	634.89				
637.39	638.09	634.75				
636.52	637.54	634.45				
636.09	636.69	634.15				
633.78	635.20	632.20				
631.43	633.62	630.75				
631.16	632.50	630.00				
630.63	631.60	629.15				
629.75	630.80	628.30				

Excavation and Embankment Summary:

- Exc. 267 CU. YDS. EMB. +15% 268 CU. YDS. BORROW 1 CU. YD.
- Exc. 239 CU. YDS. EMB. +15% 240 CU. YDS. BORROW 1 CU. YD.
- Exc. 251 CU. YDS. EMB. +15% 252 CU. YDS. BORROW 1 CU. YD.
- Exc. 449 CU. YDS. EMB. +15% 447 CU. YDS. WASTE 2 CU. YDS.
- Exc. 465 CU. YDS. EMB. +15% 464 CU. YDS. WASTE 1 CU. YD.

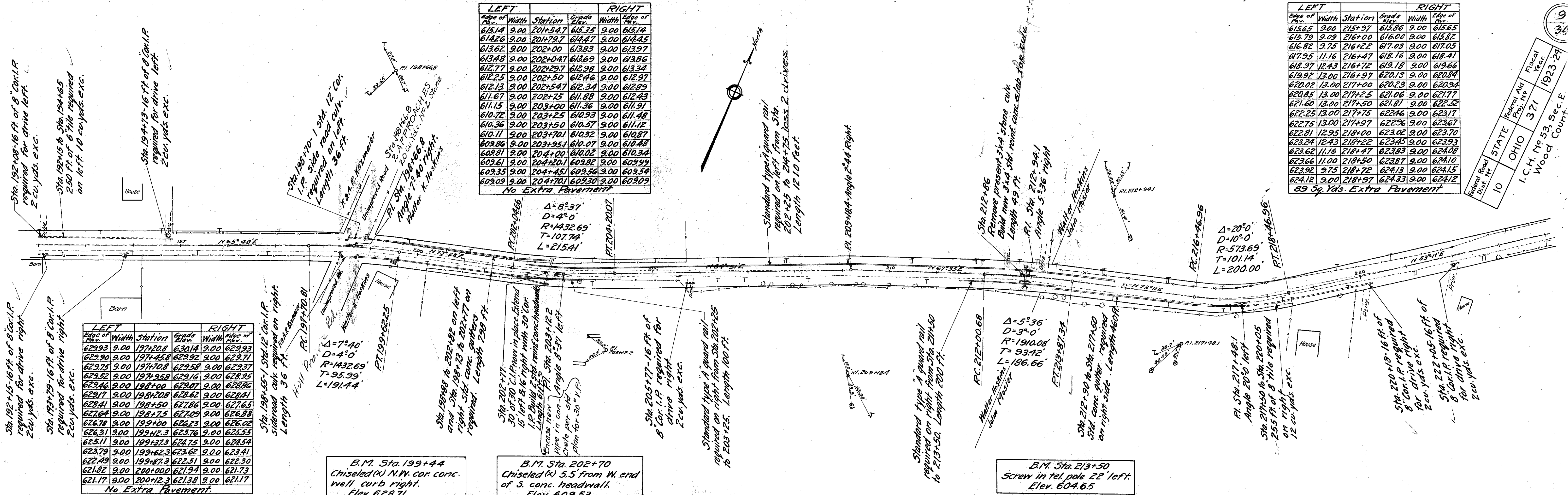
STATE OHIO
 I.C.H. No. 53, Sec. E
 Wood County
 Fiscal Year 1923-24

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.	Station	Grade Elev.
615.14	9.00	201+54.7	615.35	9.00	615.14		
614.26	9.00	201+79.7	614.47	9.00	614.45		
613.62	9.00	202+00	613.83	9.00	613.97		
613.48	9.00	202+04.7	613.69	9.00	613.86		
612.77	9.00	202+29.7	612.98	9.00	613.34		
612.25	9.00	202+50	612.46	9.00	612.97		
612.13	9.00	202+54.7	612.34	9.00	612.89		
611.67	9.00	202+75	611.88	9.00	612.43		
611.15	9.00	203+00	611.36	9.00	611.91		
610.72	9.00	203+25	610.93	9.00	611.48		
610.36	9.00	203+50	610.57	9.00	611.12		
610.11	9.00	203+70.1	610.32	9.00	610.87		
609.86	9.00	203+95.1	610.07	9.00	610.48		
609.81	9.00	204+00	610.02	9.00	610.34		
609.61	9.00	204+20.1	609.82	9.00	609.99		
609.35	9.00	204+45.1	609.56	9.00	609.54		
609.09	9.00	204+70.1	609.30	9.00	609.09		

No Extra Pavement

LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.	Station	Grade Elev.
615.65	9.00	215+97	615.86	9.00	615.65		
615.79	9.00	216+00	616.00	9.00	615.82		
616.82	9.75	216+22	617.03	9.00	617.05		
617.95	11.16	216+47	618.16	9.00	618.41		
618.97	12.43	216+72	619.18	9.00	619.66		
619.92	13.00	216+97	620.13	9.00	620.84		
620.02	13.00	217+00	620.23	9.00	620.94		
620.85	13.00	217+25	621.06	9.00	621.77		
621.60	13.00	217+50	621.81	9.00	622.52		
622.25	13.00	217+75	622.46	9.00	623.17		
622.75	13.00	217+97	622.96	9.00	623.67		
622.81	12.95	218+00	623.02	9.00	623.70		
623.24	12.43	218+22	623.45	9.00	623.93		
623.62	11.16	218+47	623.83	9.00	624.08		
623.66	11.00	218+50	623.87	9.00	624.10		
623.92	9.75	218+72	624.13	9.00	624.15		
624.12	9.00	218+97	624.33	9.00	624.12		

89 Sq. Yds. Extra Pavement



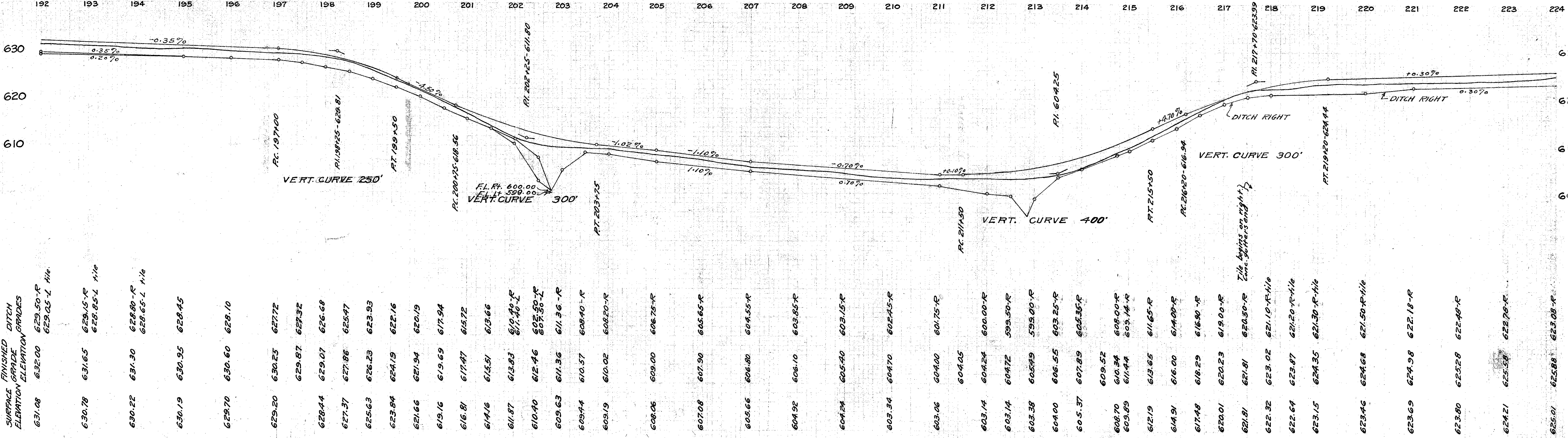
LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade Elev.	Width	Edge of Pav.	Station	Grade Elev.
629.93	9.00	197+20.8	630.14	9.00	629.93		
629.90	9.00	197+45.8	629.92	9.00	629.71		
629.75	9.00	197+70.8	629.58	9.00	629.37		
629.52	9.00	197+95.8	629.16	9.00	628.95		
629.46	9.00	198+00	629.07	9.00	628.86		
629.17	9.00	198+20.8	628.62	9.00	628.41		
628.41	9.00	198+50	627.86	9.00	627.65		
627.64	9.00	198+75	627.09	9.00	626.88		
626.78	9.00	199+00	626.23	9.00	626.02		
626.31	9.00	199+25.3	625.76	9.00	625.55		
625.51	9.00	199+50.3	624.75	9.00	624.54		
623.79	9.00	199+75.3	623.62	9.00	623.41		
622.49	9.00	199+97.3	622.51	9.00	622.30		
621.82	9.00	200+00	621.94	9.00	621.73		
621.17	9.00	200+12.3	621.38	9.00	621.17		

No Extra Pavement.

B.M. Sta. 199+44
 Chiseled (x) N.W. cor. conc. well curb right.
 Elev. 628.71

B.M. Sta. 202+70
 Chiseled (x) S.E. from W. end of S. conc. headwall.
 Elev. 609.53

B.M. Sta. 213+50
 Screw in tel. pole 22' left.
 Elev. 604.65



SURFACE GRADE ELEVATION	DITCH ELEVATION
631.08	629.50-R
630.78	629.05-L
630.22	629.15-R
630.19	628.65-L
629.70	628.10
629.20	627.72
628.44	627.32
627.37	626.68
625.63	625.47
623.84	623.93
621.66	622.16
619.16	620.19
616.81	617.94
614.16	615.72
611.87	613.66
610.40	611.40-F
609.63	610.50-F
609.44	611.36-F
609.19	608.40-F
608.06	608.02-R
607.08	606.75-F
605.66	605.85-F
604.92	604.55-R
604.24	603.85-F
603.34	603.15-F
603.06	602.45-R
603.14	601.75-R
603.14	604.00
603.38	604.05
604.00	604.24
605.37	604.72
608.70	605.49
609.89	599.50-R
612.19	599.00-R
614.91	603.25-F
617.48	606.55
620.01	607.89
621.81	609.52
622.32	610.34
622.64	611.44
623.15	611.44
623.46	613.65
623.69	616.00
623.80	618.29
624.21	620.23
625.01	621.81
625.88	623.02
626.51	623.87
627.08	624.35
627.58	624.68
628.08	624.98
628.58	625.28
629.08	625.58
629.58	625.88
630.08	626.18
630.58	626.48
631.08	626.78

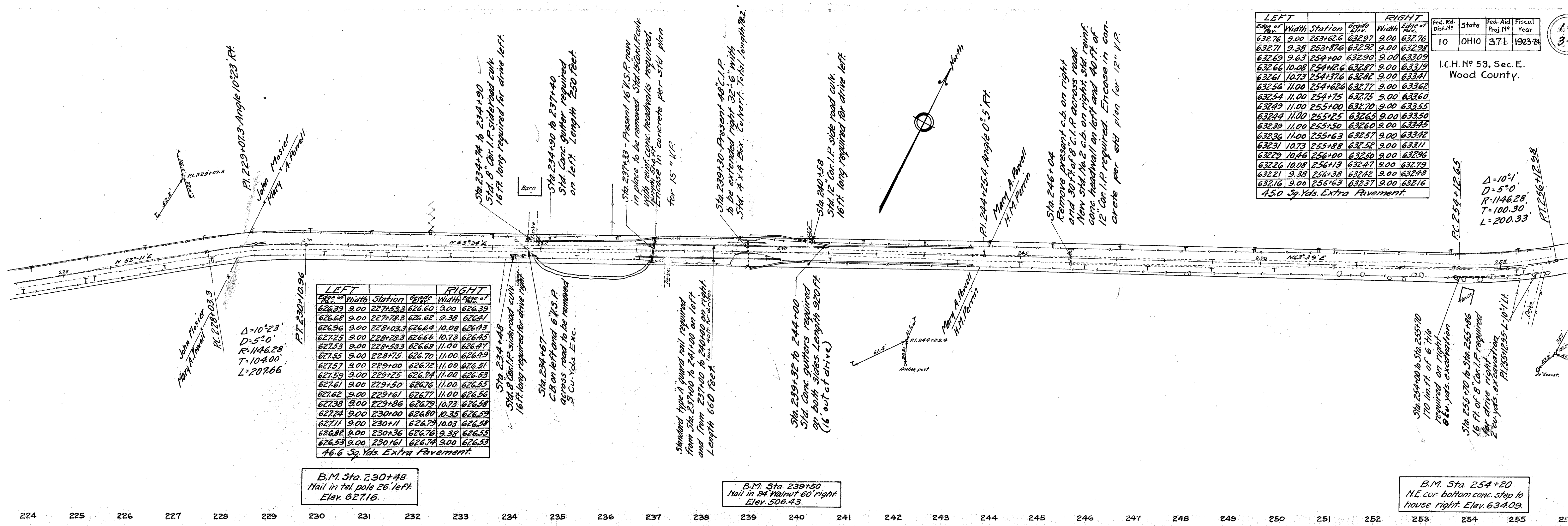
Exc. 169 cu. yds. EMB.+15% 166 cu. yds. WASTE 3 cu. yds.
 Exc. 1134 cu. yds. EMB.+15% 1138 cu. yds. BORROW 4 cu. yds.
 Exc. 250 cu. yds. EMB.+15% 247 cu. yds. WASTE 3 cu. yds.
 Exc. 571 cu. yds. EMB.+15% 568 cu. yds. WASTE 3 cu. yds.
 Exc. 362 cu. yds. EMB.+15% 357 cu. yds. WASTE 5 cu. yds.
 Exc. 281 cu. yds. EMB.+15% 283 cu. yds. BORROW 2 cu. yds.
 Exc. 144 cu. yds. EMB.+15% 142 cu. yds. WASTE 2 cu. yds.

LEFT		RIGHT	
Station	Grade	Station	Grade
632.76	9.00	253+62.6	632.97
632.71	9.38	253+87.6	632.92
632.69	9.63	254+00	632.90
632.66	10.08	254+12.6	632.87
632.61	10.73	254+37.6	632.82
632.56	11.00	254+62.6	632.77
632.54	11.00	254+75	632.75
632.49	11.00	255+00	632.70
632.44	11.00	255+25	632.65
632.39	11.00	255+50	632.60
632.36	11.00	255+63	632.57
632.31	10.73	255+88	632.52
632.29	10.46	256+00	632.50
632.26	10.08	256+13	632.47
632.21	9.38	256+38	632.42
632.16	9.00	256+63	632.37

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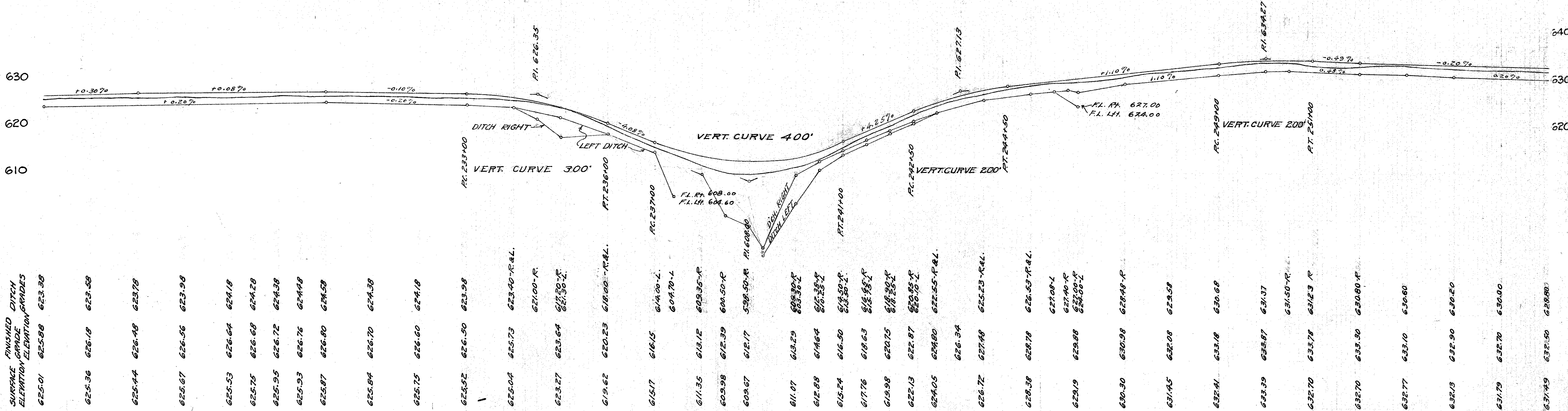


LEFT		RIGHT	
Station	Grade	Station	Grade
626.39	9.00	227+53.3	626.60
626.68	9.00	227+78.3	626.62
626.96	9.00	228+03.3	626.64
627.25	9.00	228+28.3	626.66
627.53	9.00	228+53.3	626.68
627.55	9.00	228+75	626.70
627.57	9.00	229+00	626.72
627.59	9.00	229+25	626.74
627.61	9.00	229+50	626.76
627.62	9.00	229+61	626.77
627.98	9.00	229+86	626.79
627.94	9.00	230+00	626.80
627.71	9.00	230+11	626.79
626.82	9.00	230+36	626.76
626.53	9.00	230+61	626.74

B.M. Sta. 230+48
Nail in tel. pole 26' left
Elev. 627.16.

B.M. Sta. 239+50
Nail in 24' Walnut 60' right
Elev. 506.43.

B.M. Sta. 254+20
N.E. cor. bottom conc. step to
house right. Elev. 634.09.



Station	Surface Elevation	Finished Ditch Elevation
625.01	625.88	623.38
625.36	626.18	623.58
625.44	626.48	623.78
625.67	626.56	623.98
625.53	626.64	624.18
625.75	626.68	624.28
625.95	626.72	624.38
625.93	626.76	624.48
625.87	626.80	624.58
625.84	626.70	624.58
625.75	626.60	624.18
625.52	626.50	623.98
625.04	625.73	623.40-R&L.
623.27	623.64	621.00-R.
619.62	620.23	618.00-R&L.
615.17	616.15	614.00-L.
611.35	613.12	609.35-R.
609.98	612.39	608.50-R.
609.67	612.17	608.50-R.
611.07	613.29	609.35-R.
612.88	614.64	610.35-R.
615.24	616.50	612.50-R.
617.76	618.63	614.95-R.
619.98	620.75	617.90-R.
622.13	622.87	620.85-R.
624.05	624.80	622.55-R&L.
626.72	627.48	625.23-R&L.
628.38	628.78	626.53-R&L.
629.19	629.88	627.40-R.
630.30	630.98	628.48-R.
631.45	632.08	629.58
632.41	633.18	630.68
633.39	633.87	631.37
632.70	633.78	631.23-R.
632.70	633.30	630.80-R.
632.77	633.10	630.60
632.13	632.90	630.20
631.79	632.70	630.00
631.49	632.50	629.80

Exc. 256 cu. yds.
EMB. 15% 254 cu. yds.
WASTE 2 cu. yds.

Exc. 185 cu. yds.
EMB. 15% 185 cu. yds.

Exc. 453 cu. yds.
EMB. 15% 454 cu. yds.
BORROW 1 cu. yd.

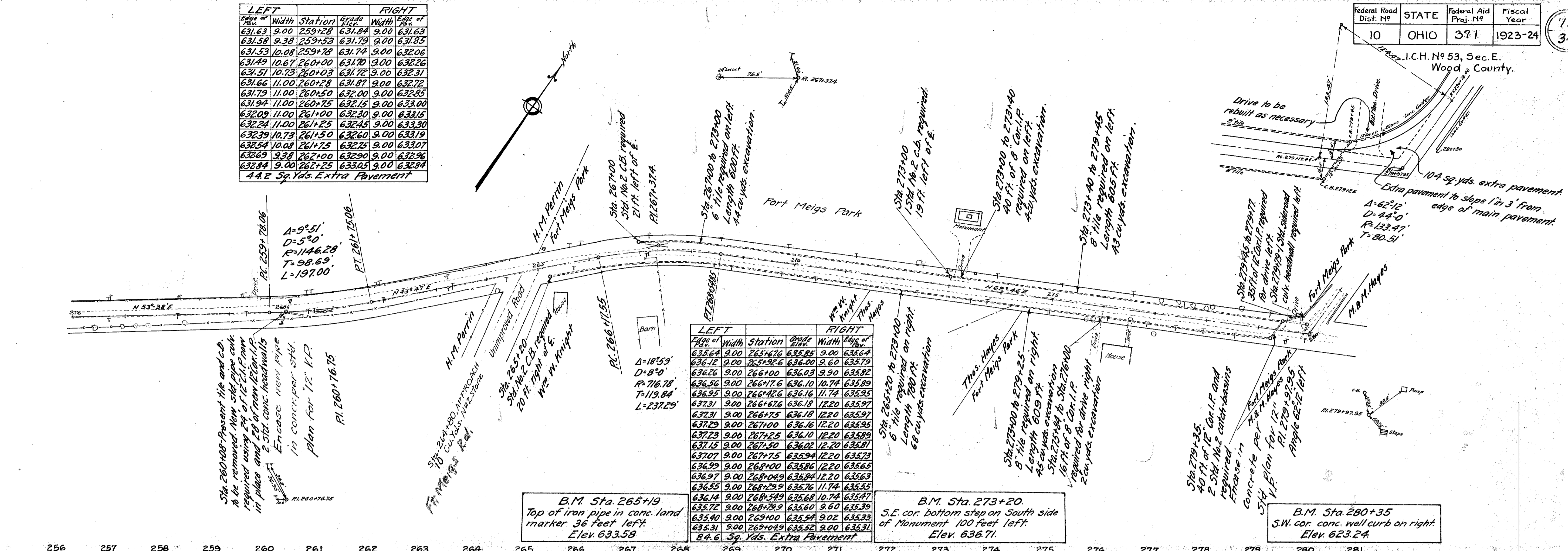
Exc. 1375 cu. yds.
EMB. 15% 1375 cu. yds.

Exc. 919 cu. yds.
EMB. 15% 317 cu. yds.
WASTE 2 cu. yds.

Exc. 215 cu. yds.
EMB. 15% 213 cu. yds.
WASTE 2 cu. yds.

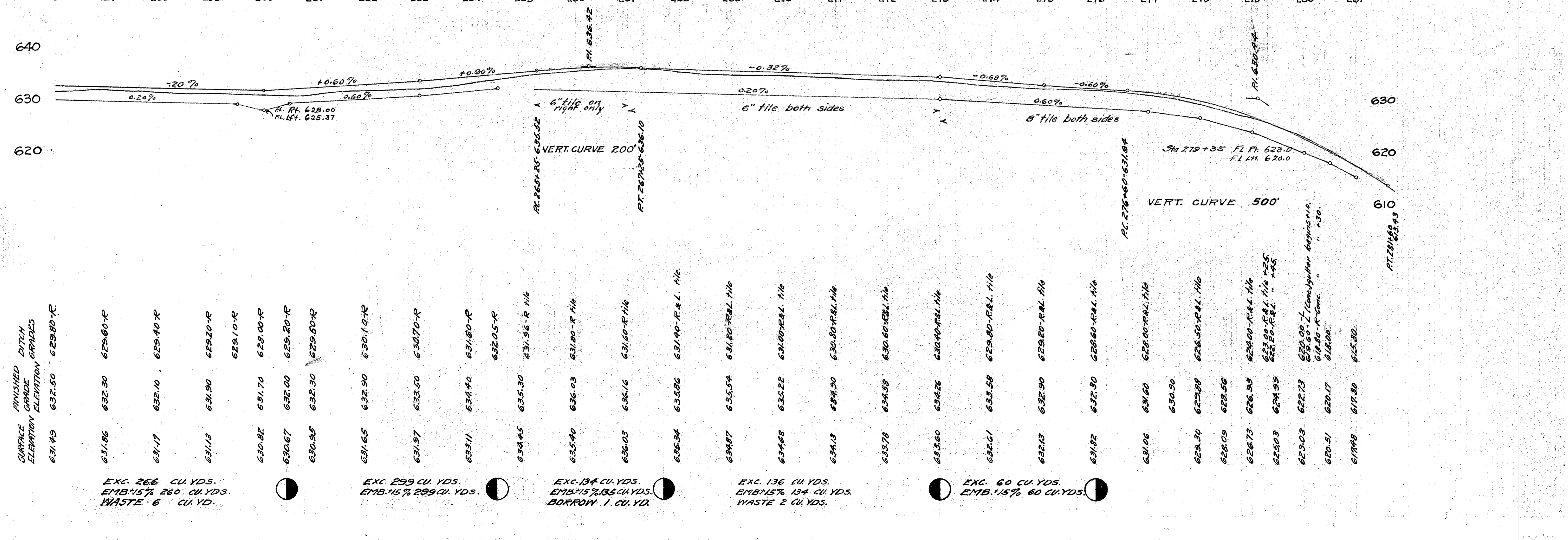
LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade	Edge of Pav.	Width	Station	Grade
631.63	9.00	259+28	631.84	9.00	631.63		
631.58	9.38	259+53	631.79	9.00	631.85		
631.53	10.08	259+78	631.74	9.00	632.06		
631.49	10.67	260+00	631.70	9.00	632.26		
631.51	10.73	260+03	631.72	9.00	632.31		
631.66	11.00	260+28	631.87	9.00	632.72		
631.79	11.00	260+50	632.00	9.00	632.85		
631.94	11.00	260+75	632.15	9.00	633.00		
632.09	11.00	261+00	632.30	9.00	633.15		
632.24	11.00	261+25	632.45	9.00	633.30		
632.39	10.79	261+50	632.60	9.00	633.19		
632.54	10.08	261+75	632.75	9.00	633.07		
632.69	9.38	262+00	632.90	9.00	632.94		
632.84	9.00	262+25	633.05	9.00	632.84		

4.42 Sp. Yds. Extra Pavement



LEFT				RIGHT			
Edge of Pav.	Width	Station	Grade	Width	Edge of Pav.	Station	Grade
635.64	9.00	265+26	635.85	9.00	635.64		
636.12	9.00	265+51	636.00	9.00	635.79		
636.26	9.00	266+00	636.03	9.90	635.82		
636.50	9.00	266+76	636.10	10.74	635.89		
636.95	9.00	266+76	636.16	11.74	635.95		
637.31	9.00	266+76	636.18	12.20	635.97		
637.31	9.00	266+75	636.18	12.20	635.97		
637.29	9.00	267+00	636.16	12.20	635.95		
637.23	9.00	267+25	636.10	12.20	635.89		
637.15	9.00	267+50	636.02	12.20	635.81		
637.07	9.00	267+75	635.94	12.20	635.73		
636.99	9.00	268+00	635.86	12.20	635.65		
636.97	9.00	268+00	635.84	12.20	635.63		
636.55	9.00	268+29	635.76	11.74	635.55		
636.14	9.00	268+59	635.68	10.74	635.47		
635.72	9.00	268+79	635.60	9.60	635.39		
635.40	9.00	269+00	635.54	9.02	635.33		
635.31	9.00	269+09	635.52	9.00	635.31		

8.46 Sp. Yds. Extra Pavement



FINISHED DITCH ELEVATION	DITCH GRADES
631.49	632.50
631.86	629.60-R
631.17	629.40-R
631.13	629.20-R
630.82	628.00-R
630.67	629.20-R
630.95	629.50-R
631.65	630.10-R
631.97	630.70-R
633.11	631.00-R
632.05-R	
631.96-R	
631.03	631.80-R
631.16	631.60-R
631.96-R	
631.90	631.40-R
631.54	631.20-R
632.22	631.00-R
634.50	630.80-R
634.58	630.60-R
634.26	630.40-R
633.58	629.80-R
632.90	629.20-R
632.30	628.60-R
631.60	628.00-R
629.98	626.50-R
628.56	
626.93	624.00-R
624.99	623.00-R
622.73	622.00-R
624.99	621.00-R
622.73	620.00-R
620.17	618.00-R
617.80	615.30

EXC. 266 CU. YDS.
EMB. 15% 260 CU. YDS.
WASTE 6 CU. YD.

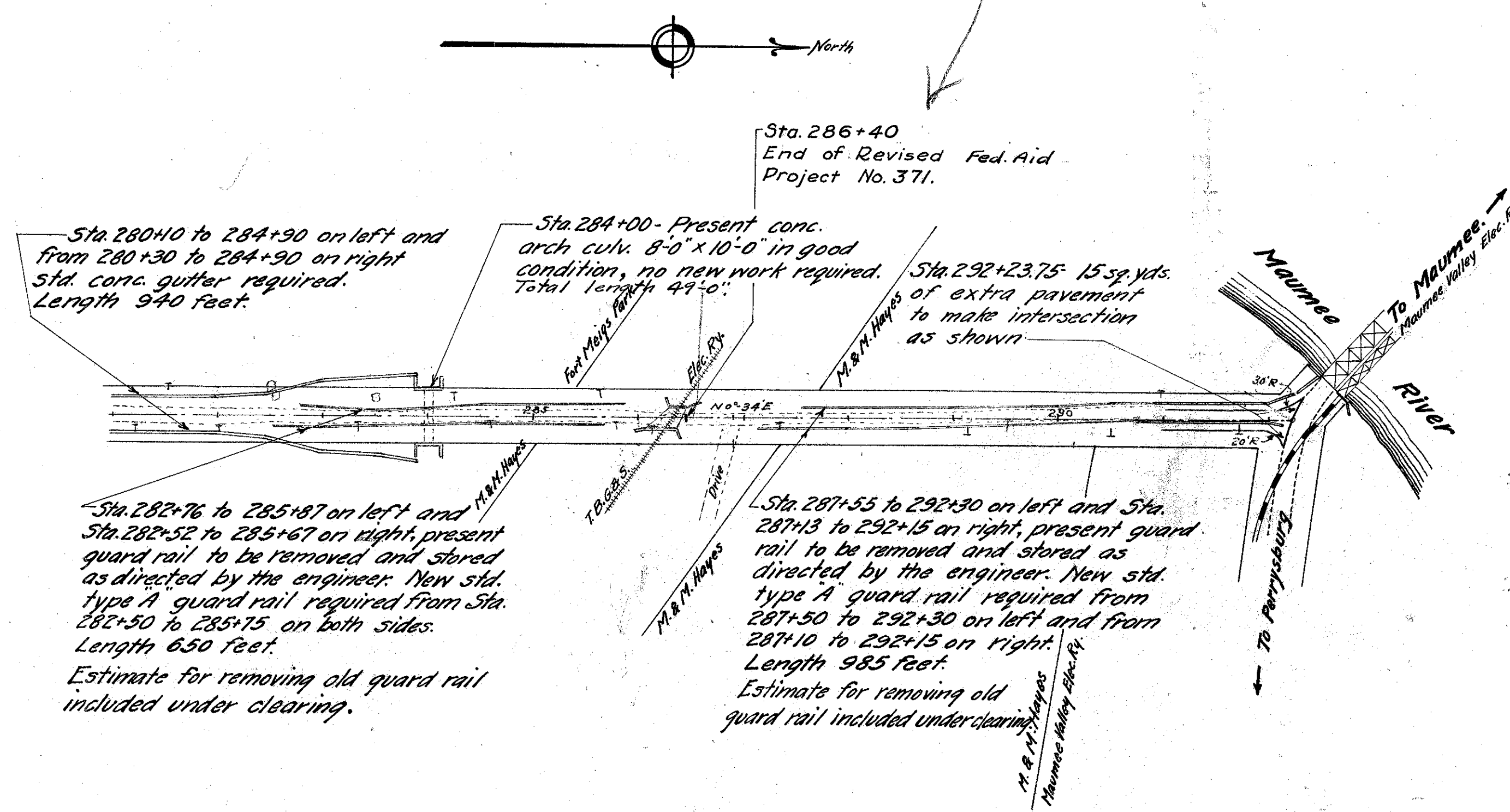
EXC. 299 CU. YDS.
EMB. 15% 299 CU. YDS.

EXC. 134 CU. YDS.
EMB. 15% 135 CU. YDS.
BORROW 1 CU. YD.

EXC. 136 CU. YDS.
EMB. 15% 134 CU. YDS.
WASTE 2 CU. YDS.

EXC. 60 CU. YDS.
EMB. 15% 60 CU. YDS.

H.C.H.
10/14/27



Sta. 280+00 to 284+00 on left and from 280+30 to 284+90 on right. Std. conc. gutter required. Length 940 feet.

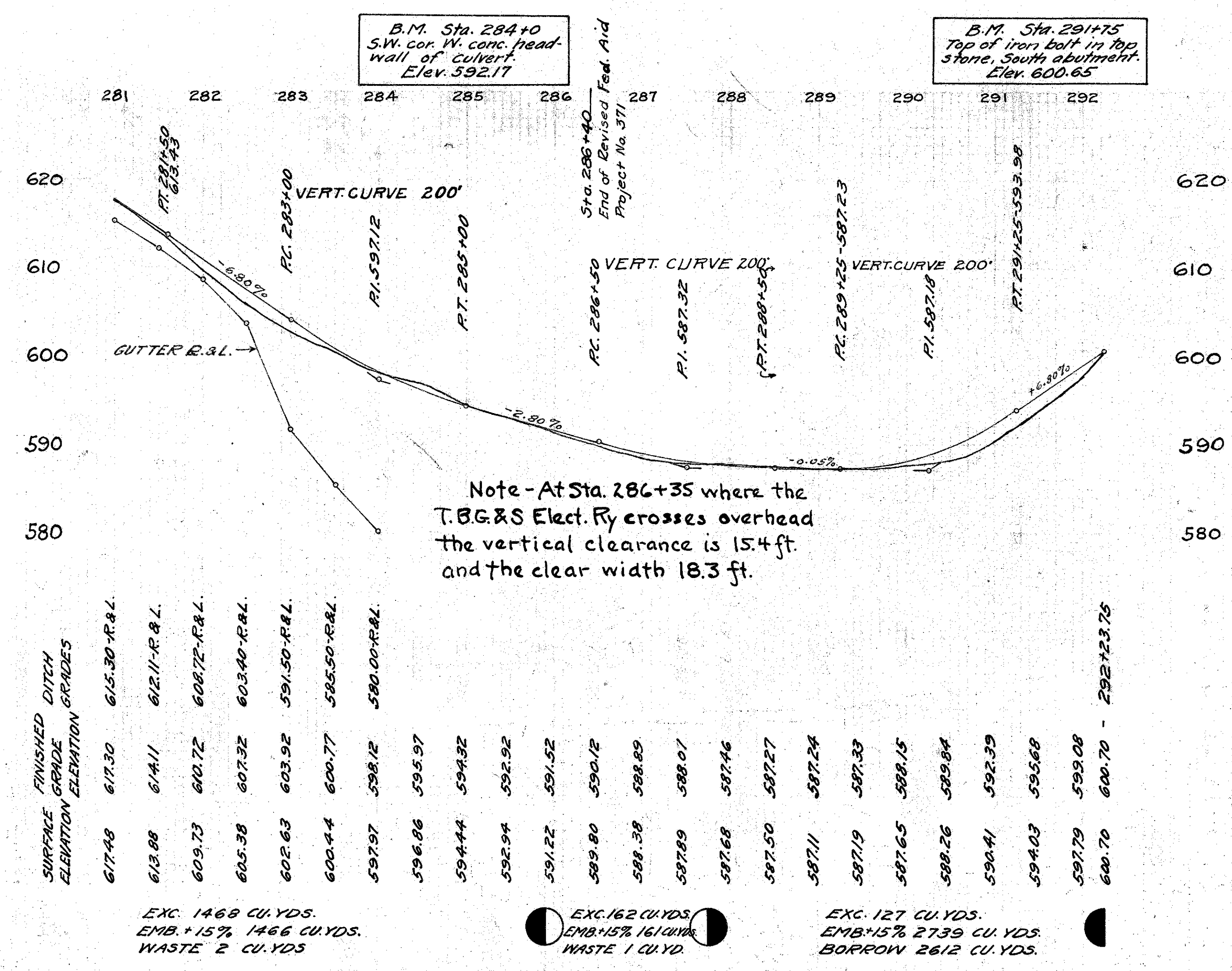
Sta. 284+00 - Present conc. arch culv. 8'-0" x 10'-0" in good condition, no new work required. Total length 49'-0".

Sta. 292+23.75 - 15' wide of extra pavement to make intersection as shown.

Sta. 282+76 to 285+87 on left and Sta. 282+52 to 285+67 on right, present guard rail to be removed and stored as directed by the engineer. New Std. type A guard rail required from Sta. 282+30 to 285+75 on both sides. Length 650 feet. Estimate for removing old guard rail included under clearing.

Sta. 287+55 to 292+30 on left and Sta. 287+13 to 292+15 on right, present guard rail to be removed and stored as directed by the engineer. New Std. type A guard rail required from 287+50 to 292+30 on left and from 287+10 to 292+15 on right. Length 985 feet. Estimate for removing old guard rail included under clearing.

292+23.75
286+90
5+83.75
2+13.60
3+97.35

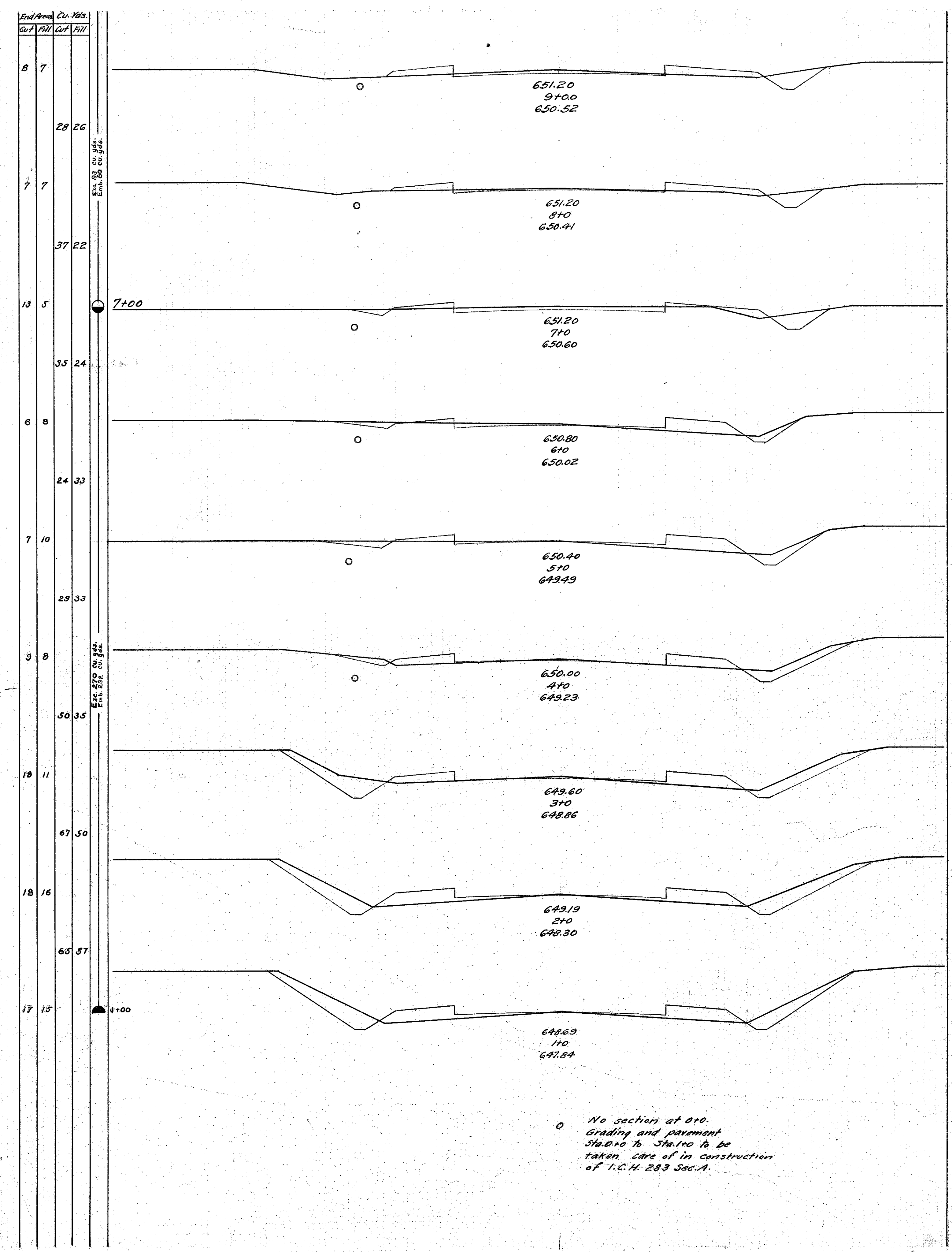


Note - At Sta. 286+35 where the T.B.G. & S. Elect. Ry crosses overhead the vertical clearance is 15.4 ft. and the clear width 18.3 ft.

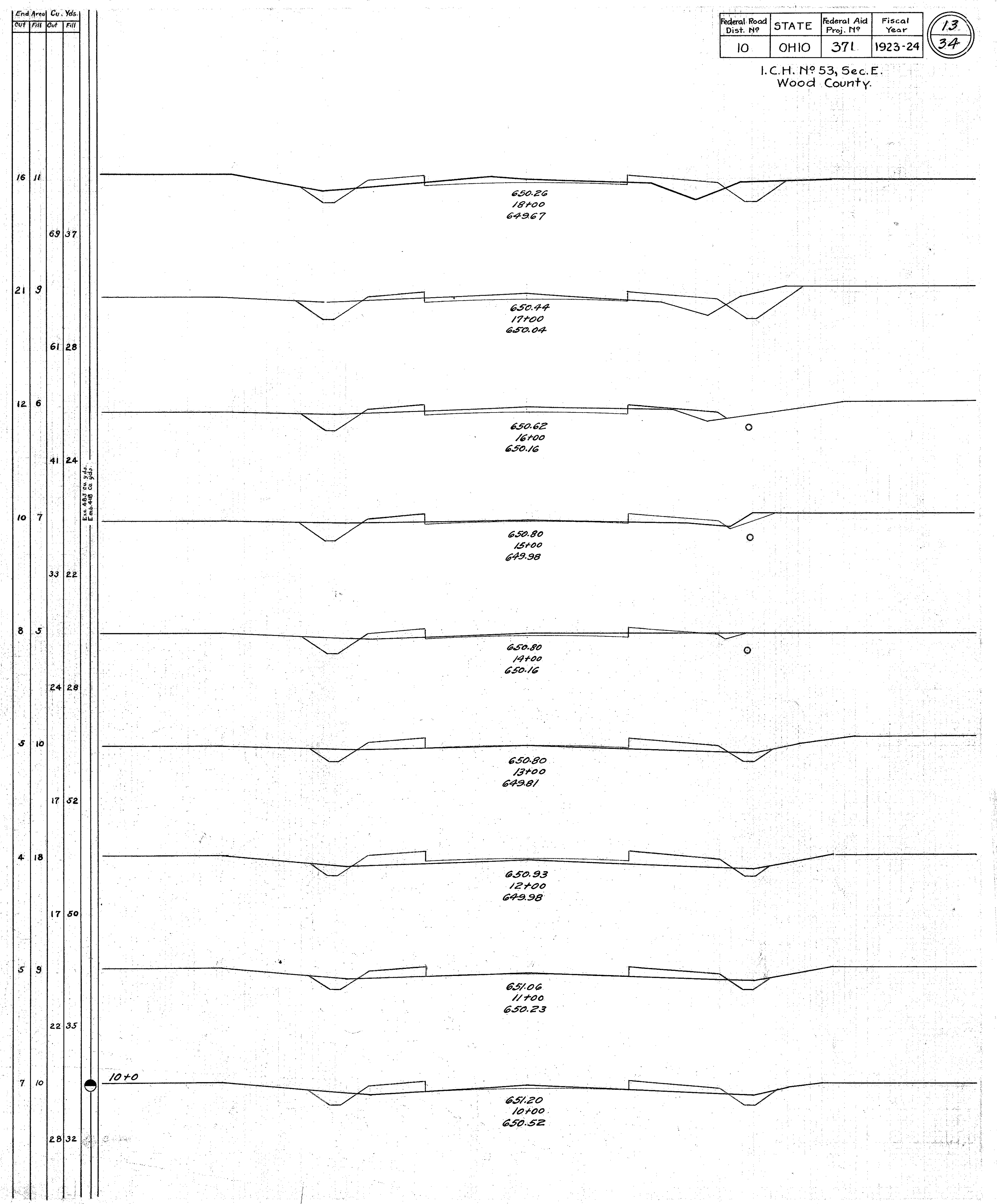
Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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34

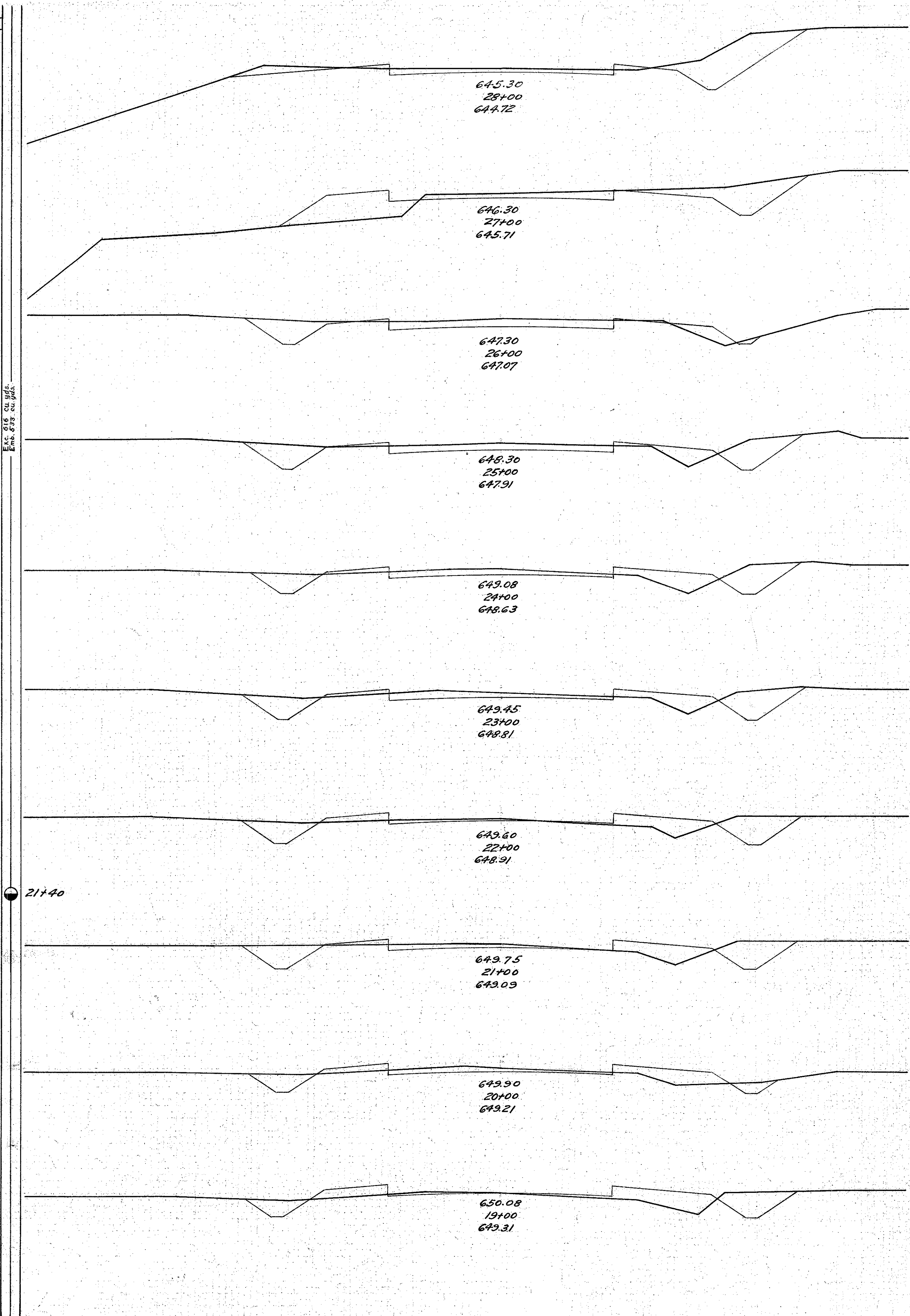
I.C.H. No 53, Sec. E.
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0 No sections at 0+0.
Grading and pavement
Sta. 0+0 to Sta. 1+0 to be
taken care of in construction
of I.C.H. 283 Sec. A.



End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
30	2		
34	37		
21	18		
74	41		
19	4		
80	19		
24	6		
83	35		
21	10		
80	35		
22	9		
76	43		
19	14		
74	43		
21	9		
63	35		
13	10		
50	44		
14	14		
56	46		

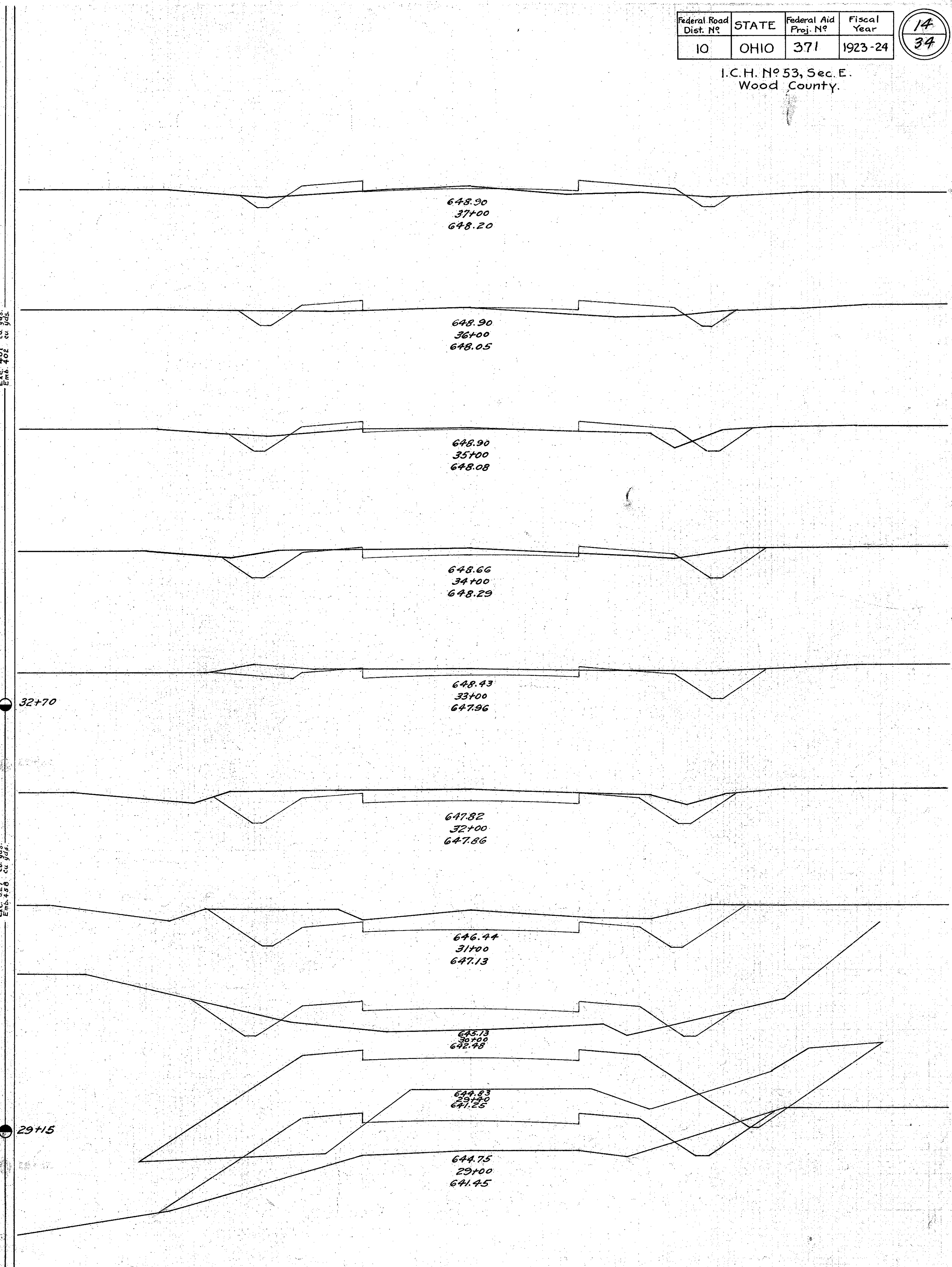


Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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I.C.H. No 53, Sec. E.
Wood County.

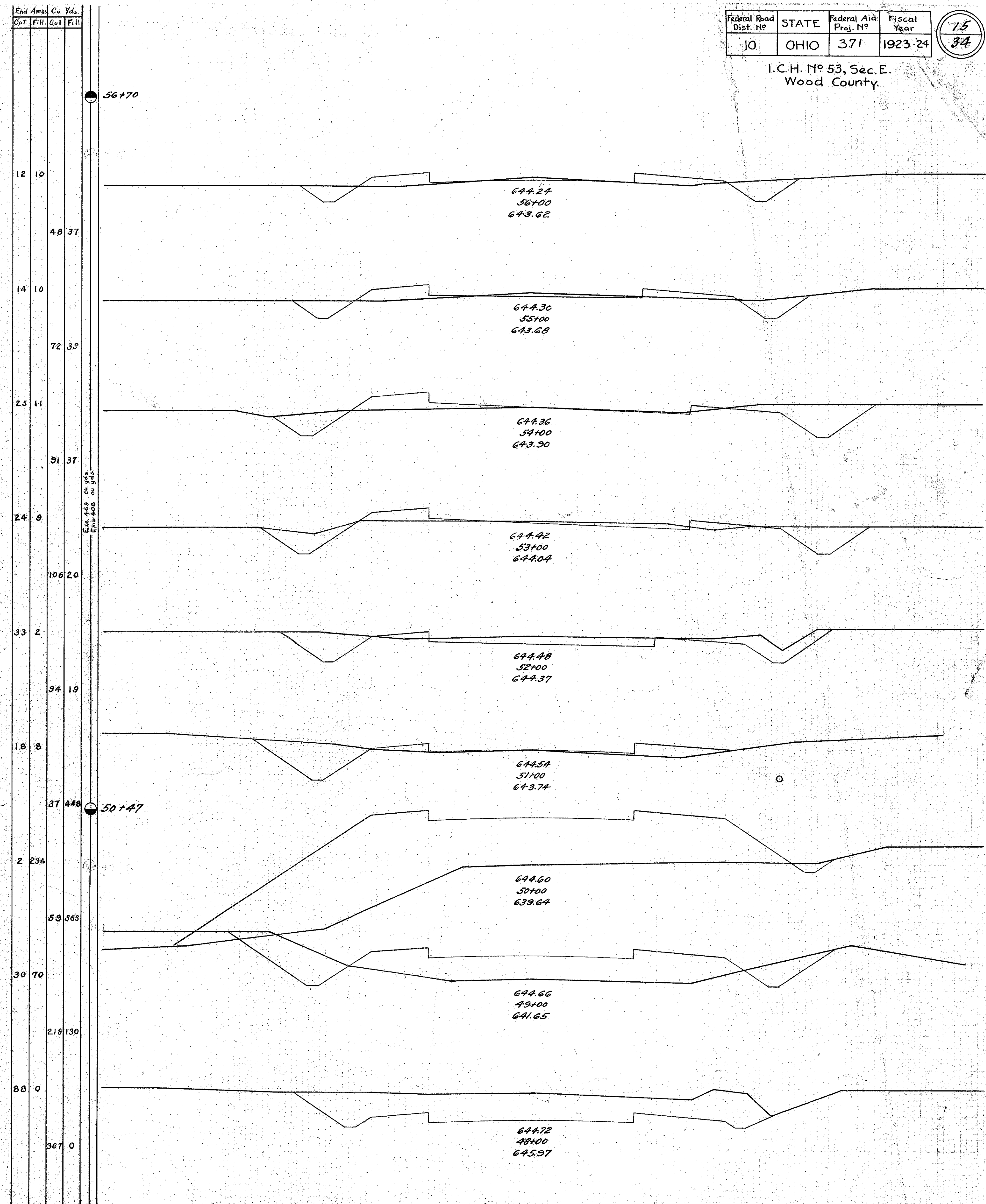
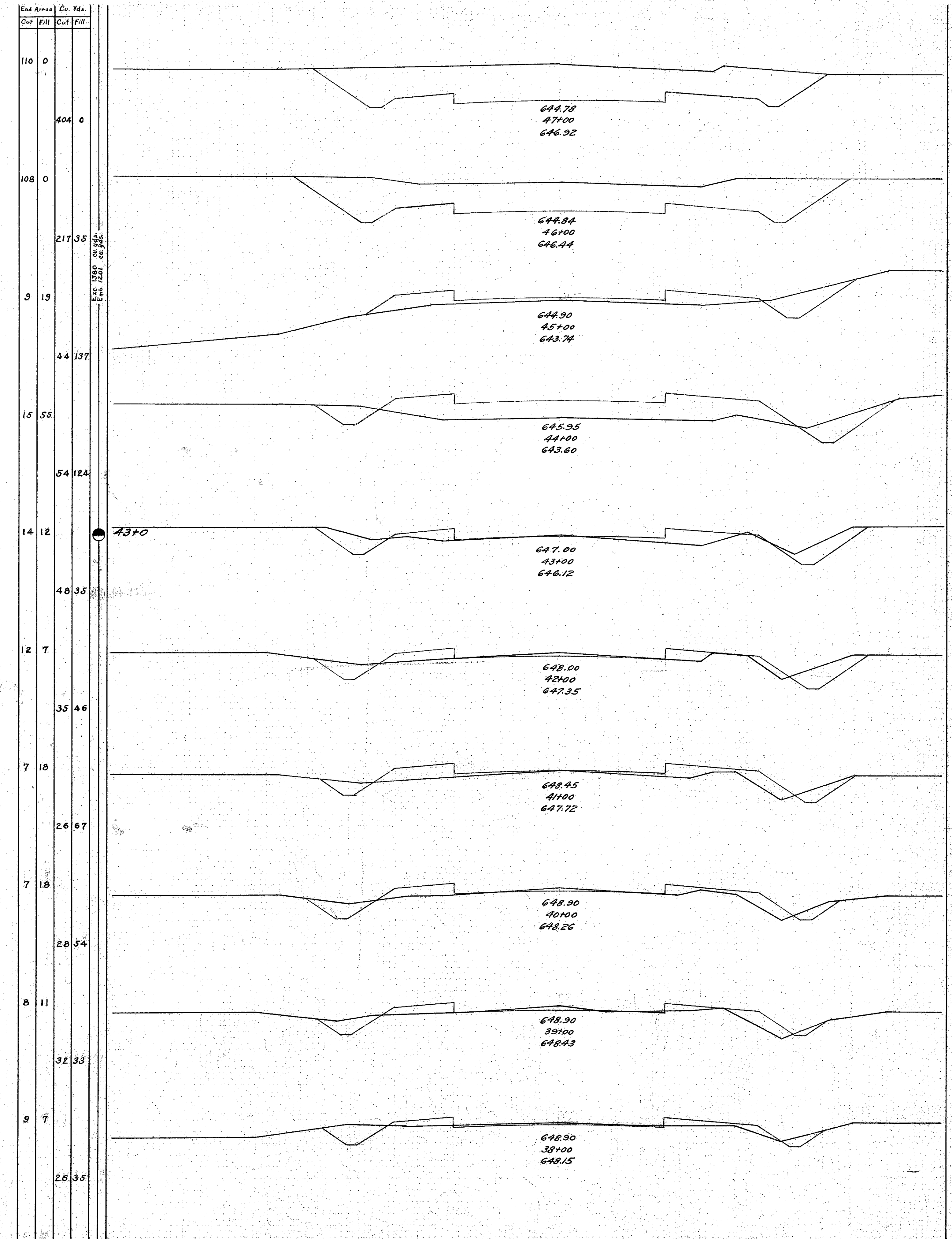
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
5	12		
20	50		
6	15		
32	40		
11	11		
70	26		
27	8		
104	7		
29	1		
135	2		
44	0		
204	0		
66	0		
146	76		
13	41		
59	244		
40	176		
56	217		
9	116		
72	217		



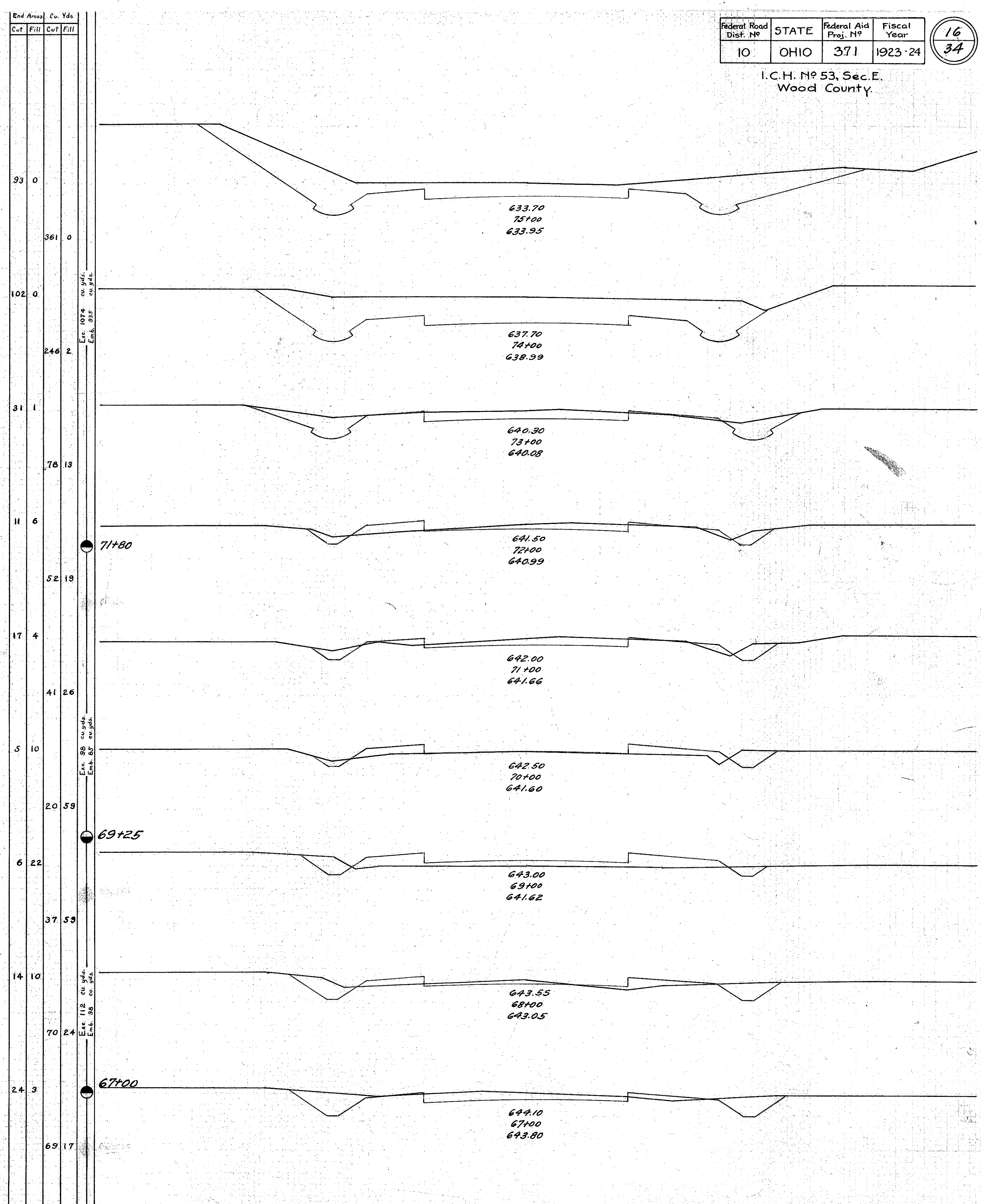
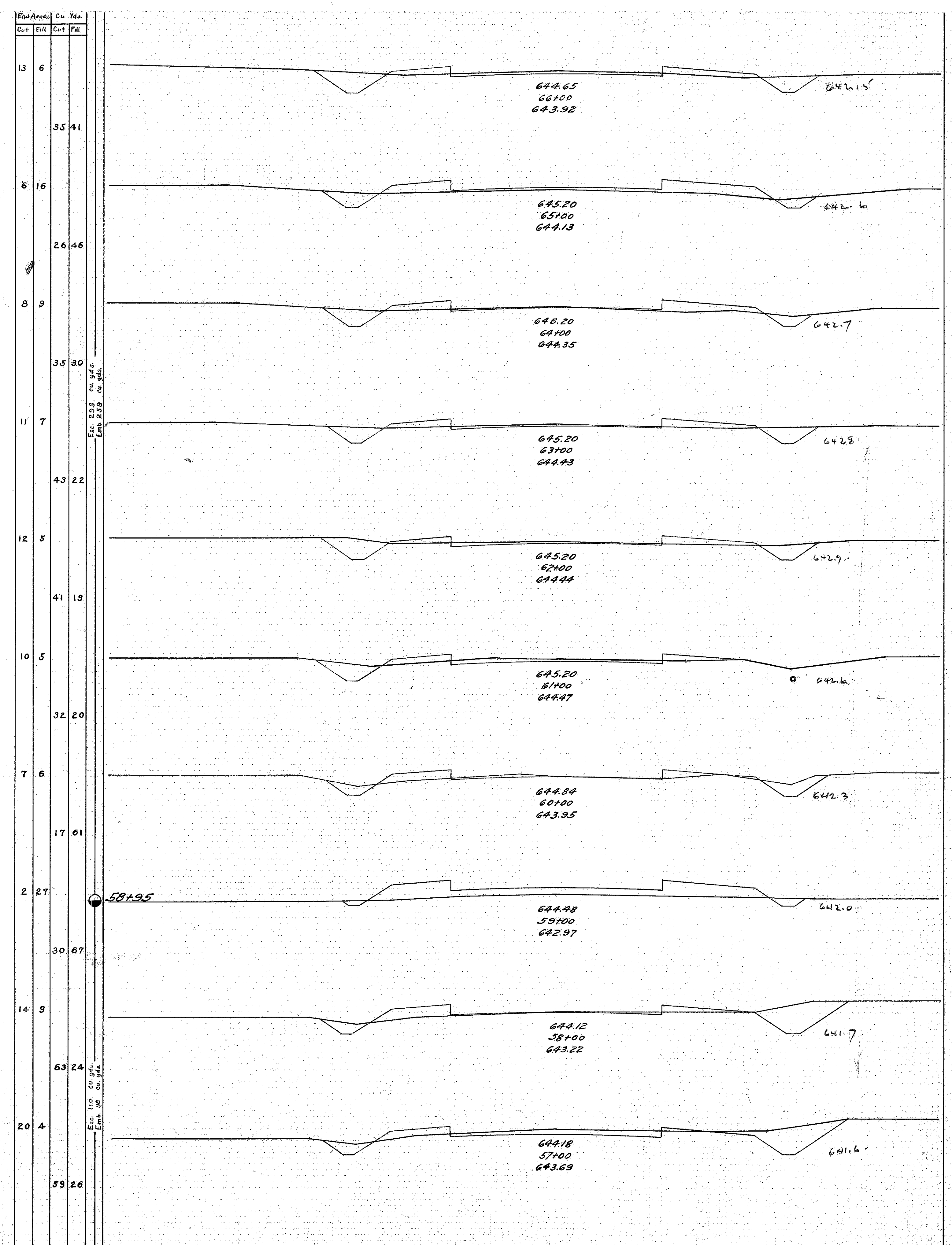
Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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Wood County.



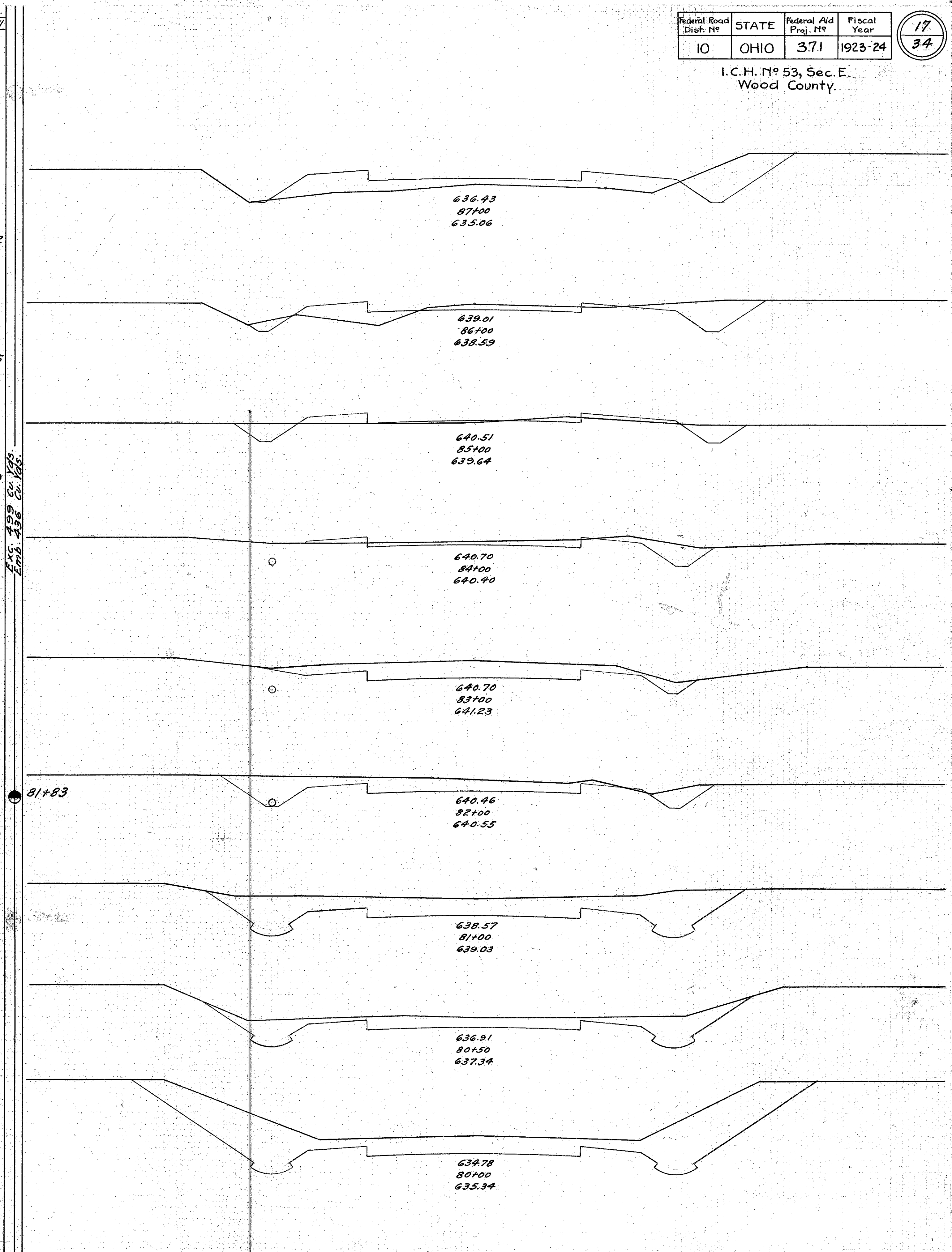
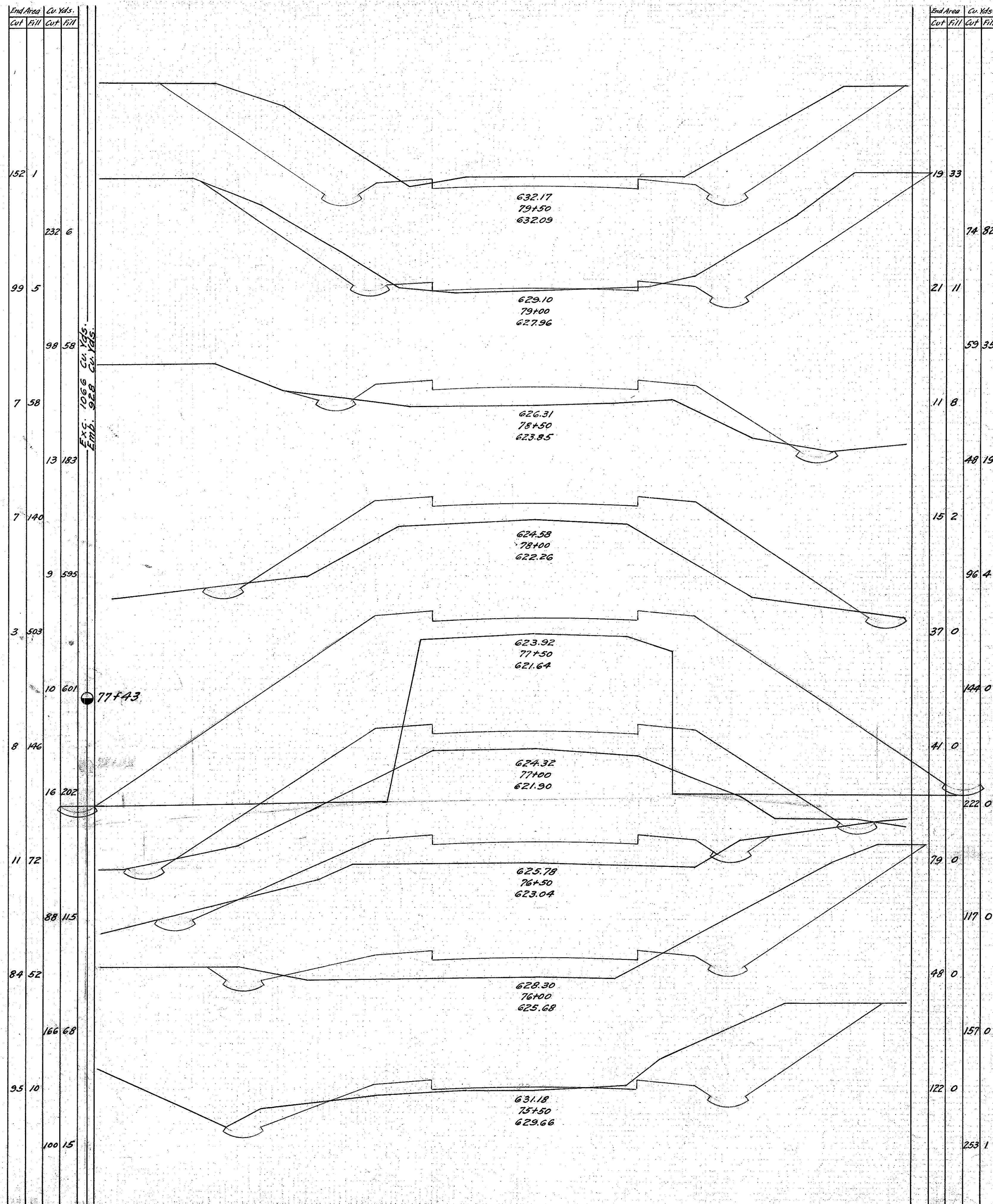
I. C. H. No 53, Sec. E.
Wood County.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	3.71	1923-24

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34

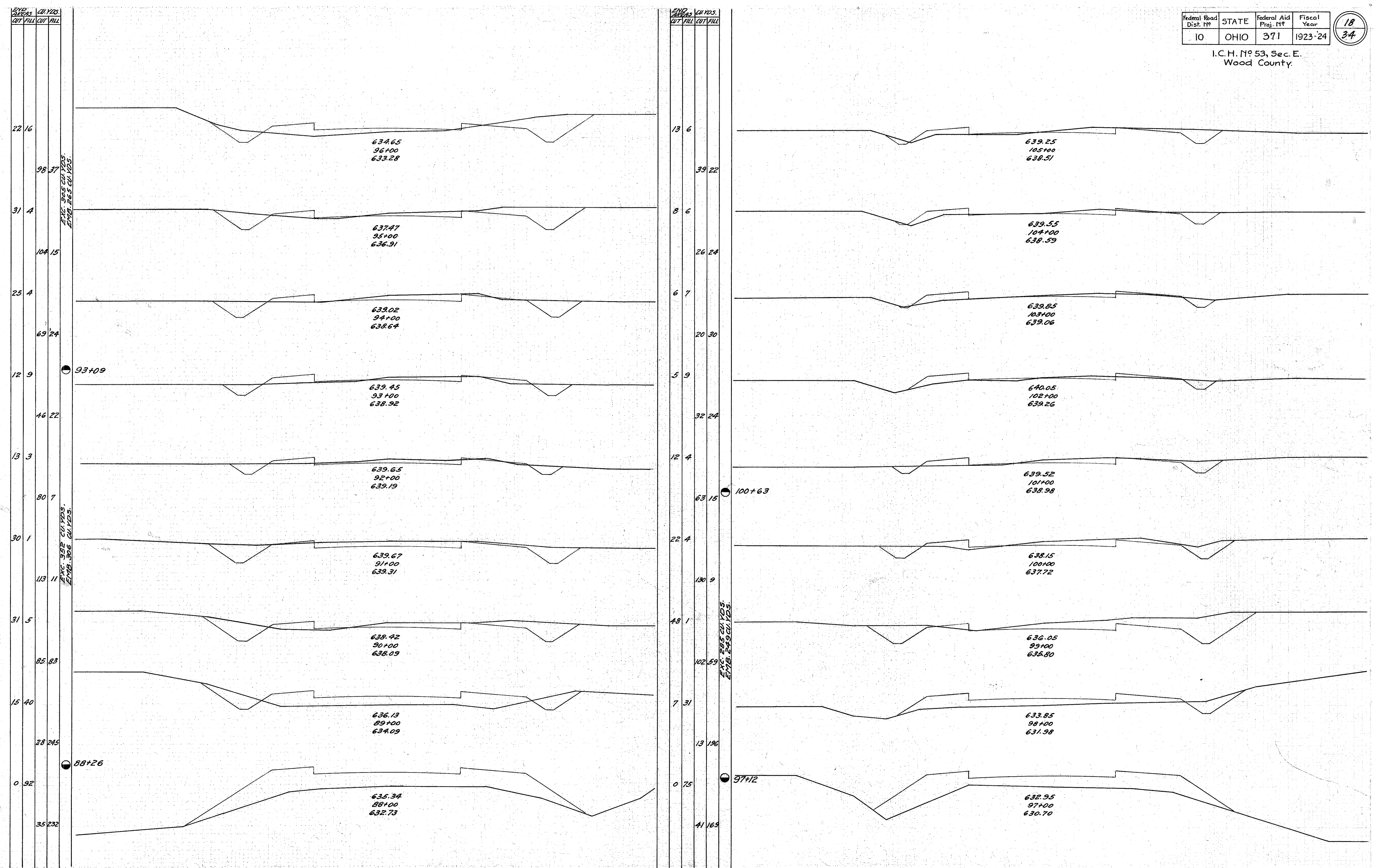
I. C. H. No 53, Sec. E.
Wood County.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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34

I.C.H. No 53, Sec. E.
Wood County.

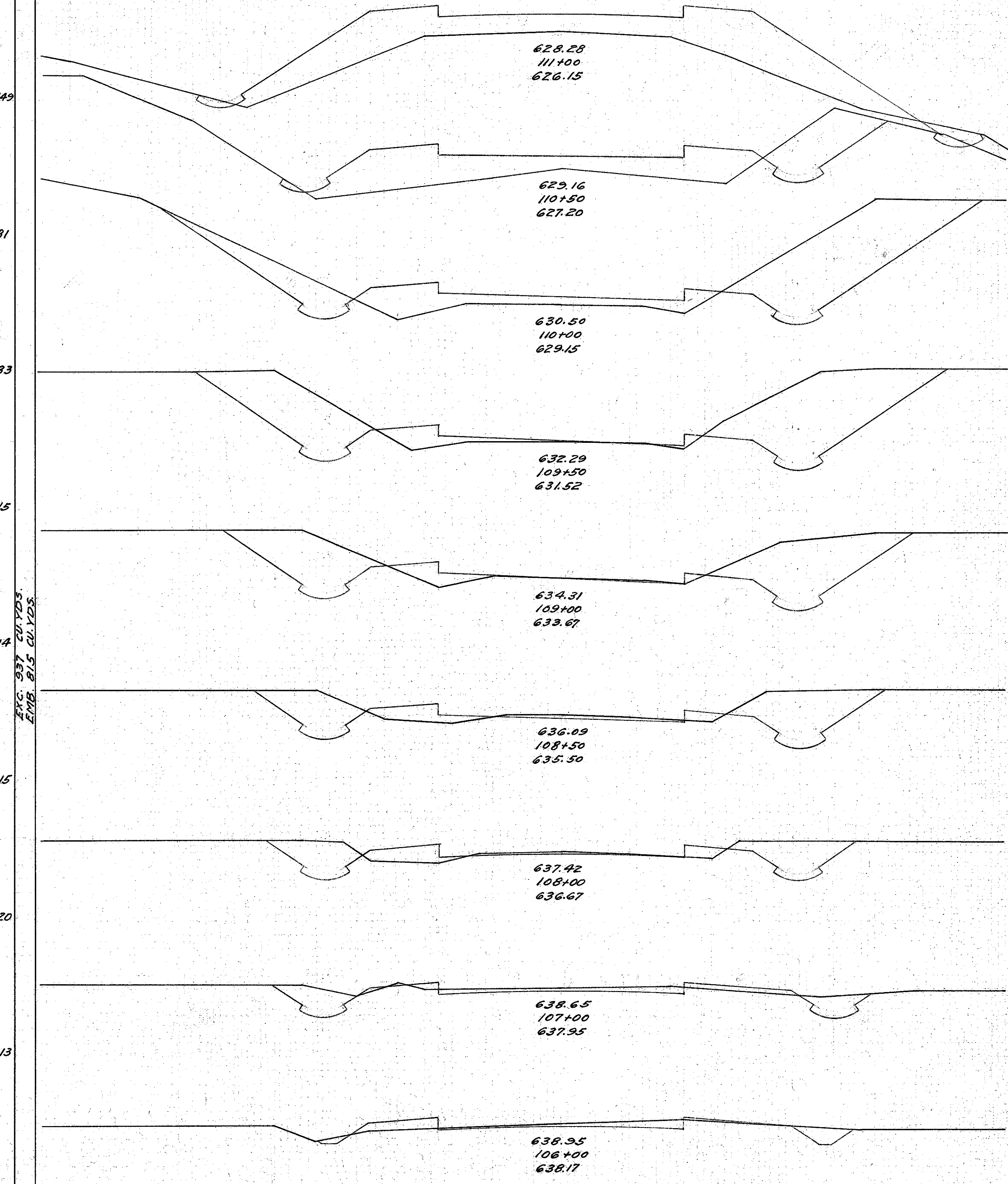


Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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34

I. C. H. No 53, Sec. E.
Wood County.

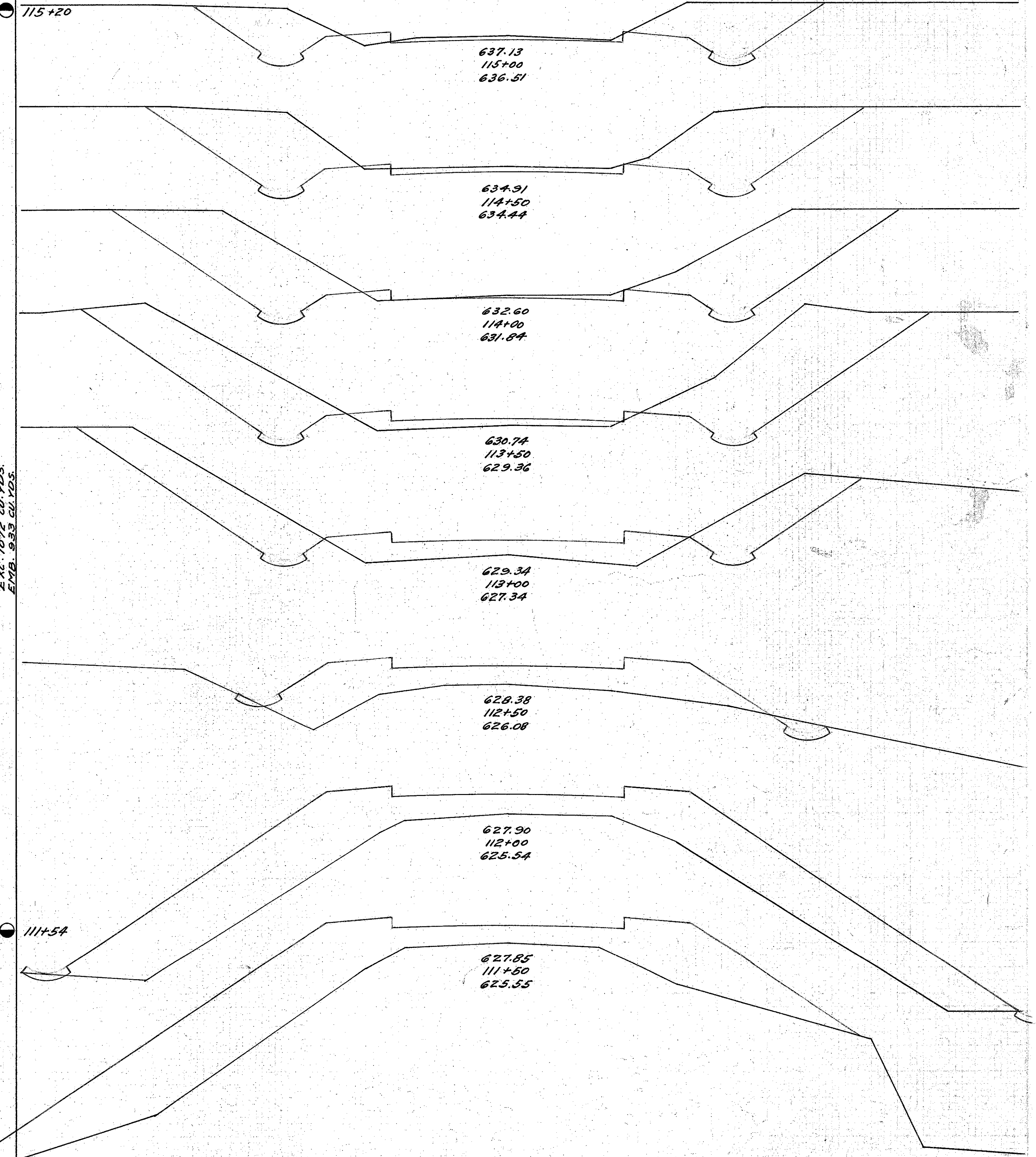
AREA	CUT	FILL	CU. YDS.
5	101		
23	149		
23	60		
102	81		
87	27		
171	33		
98	9		
153	15		
67	7		
101	14		
42	8		
64	15		
27	8		
87	20		
20	3		
52	13		
8	4		
39	19		



276.937 CU. YDS.
 518.915 CU. YDS.

AREA	CUT	FILL	CU. YDS.
70	3		
178	4		
122	1		
247	2		
144	1		
282	16		
160	16		
232	5		
90	43		
88	116		
5	82		
5	3/16		
0	259		
0	459		
0	237		
5	3/13		

276.937 CU. YDS.
 518.915 CU. YDS.

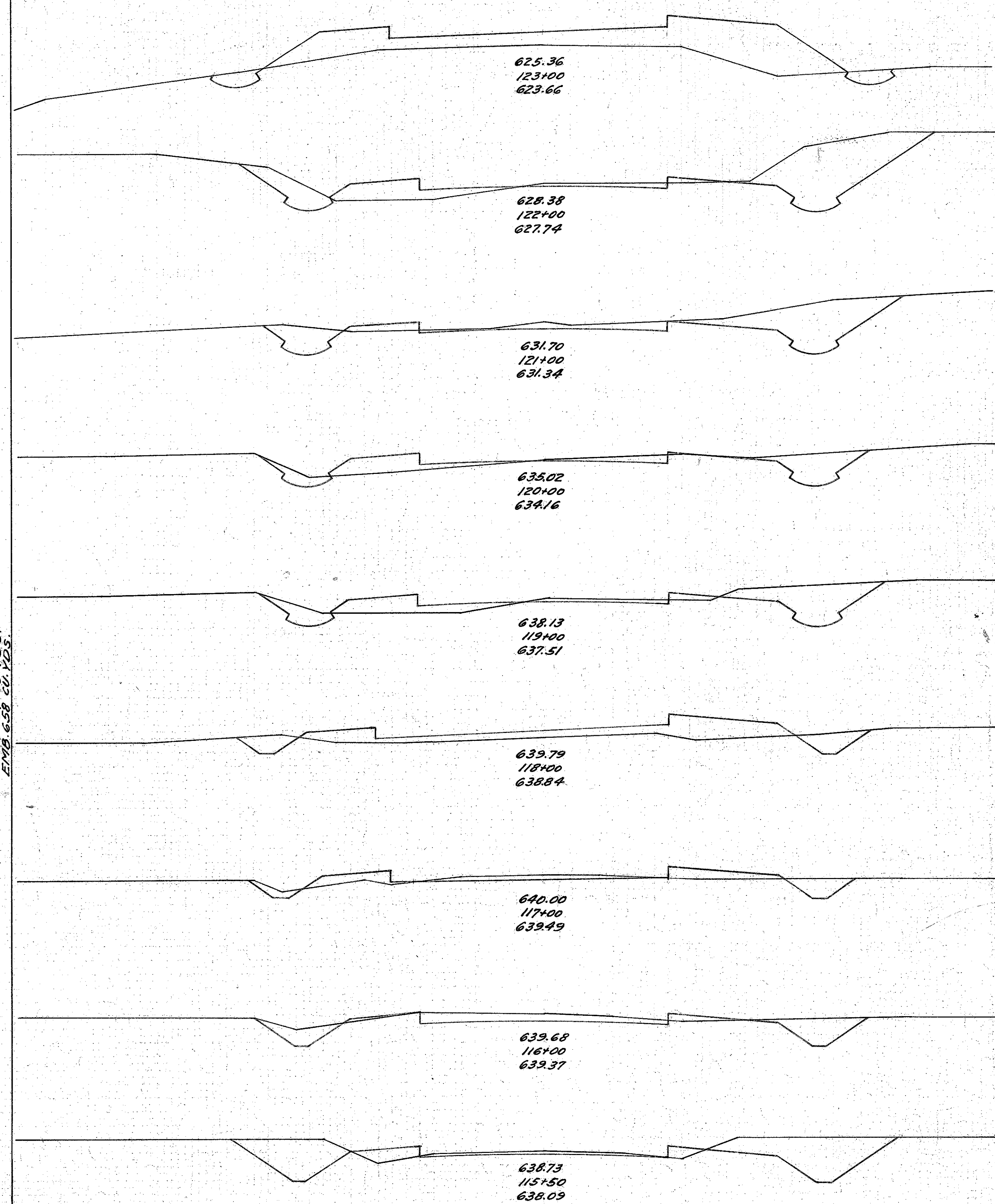


111+54

END AREAS		CU. YDS.	
CUT	FILL	CUT	FILL
6	65		
		96	143
46	12		
		159	28
40	3		
		106	22
17	9		
		82	37
27	11		
		65	67
8	25		
		33	61
10	8		
		65	19
25	2		
		63	6
43	5		
		105	7

EXC. 602 CU. YDS.
EMB. 658 CU. YDS.

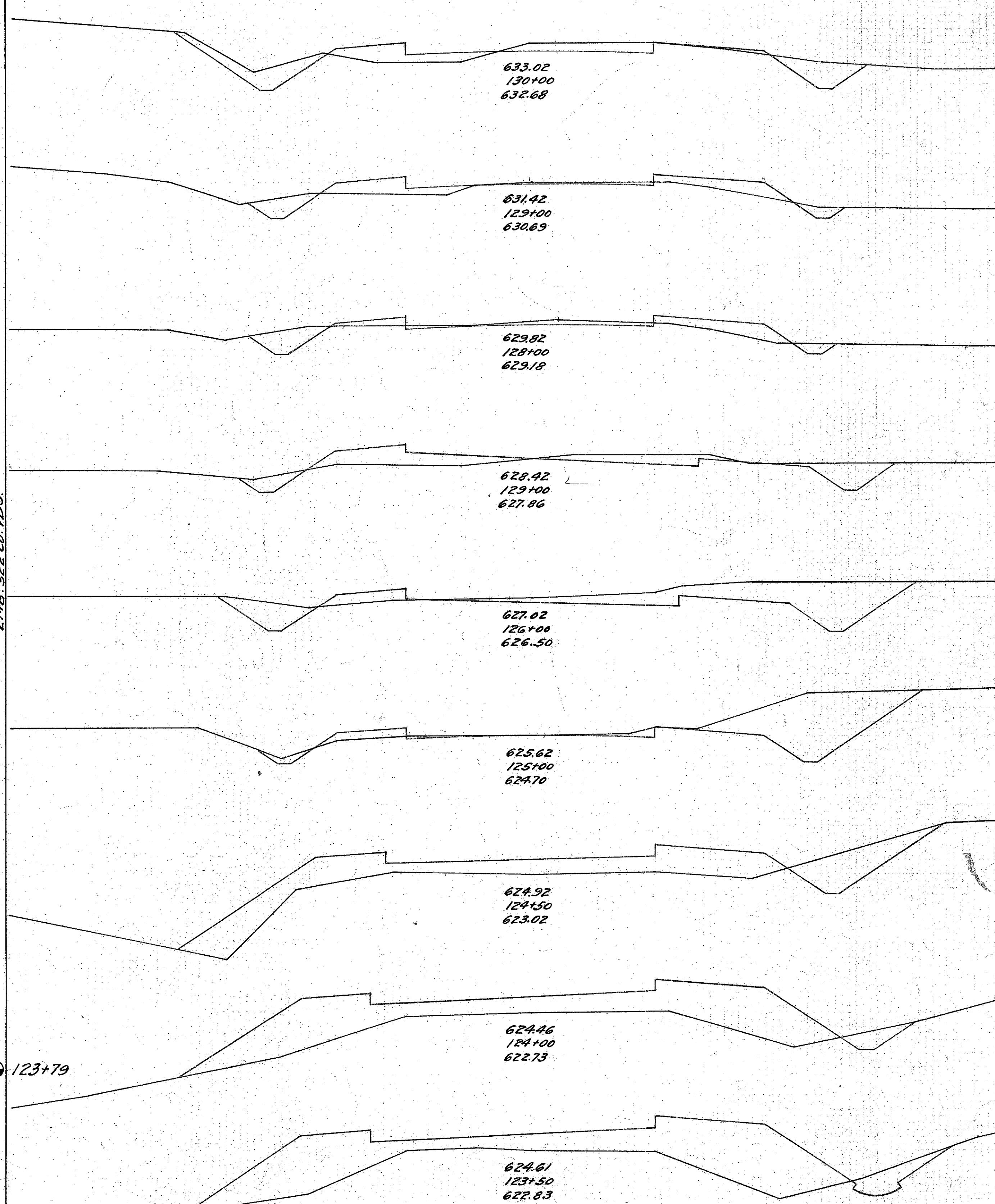
115+20



END AREAS		CU. YDS.	
CUT	FILL	CUT	FILL
26	10		
		67	44
10	14		
		41	46
12	11		
		59	50
20	16		
		122	41
46	6		
		167	19
44	4		
		57	65
18	66		
		20	148
4	94		
		14	108
11	109		
		17	166

EXC. 602 CU. YDS.
EMB. 322 CU. YDS.

123+79



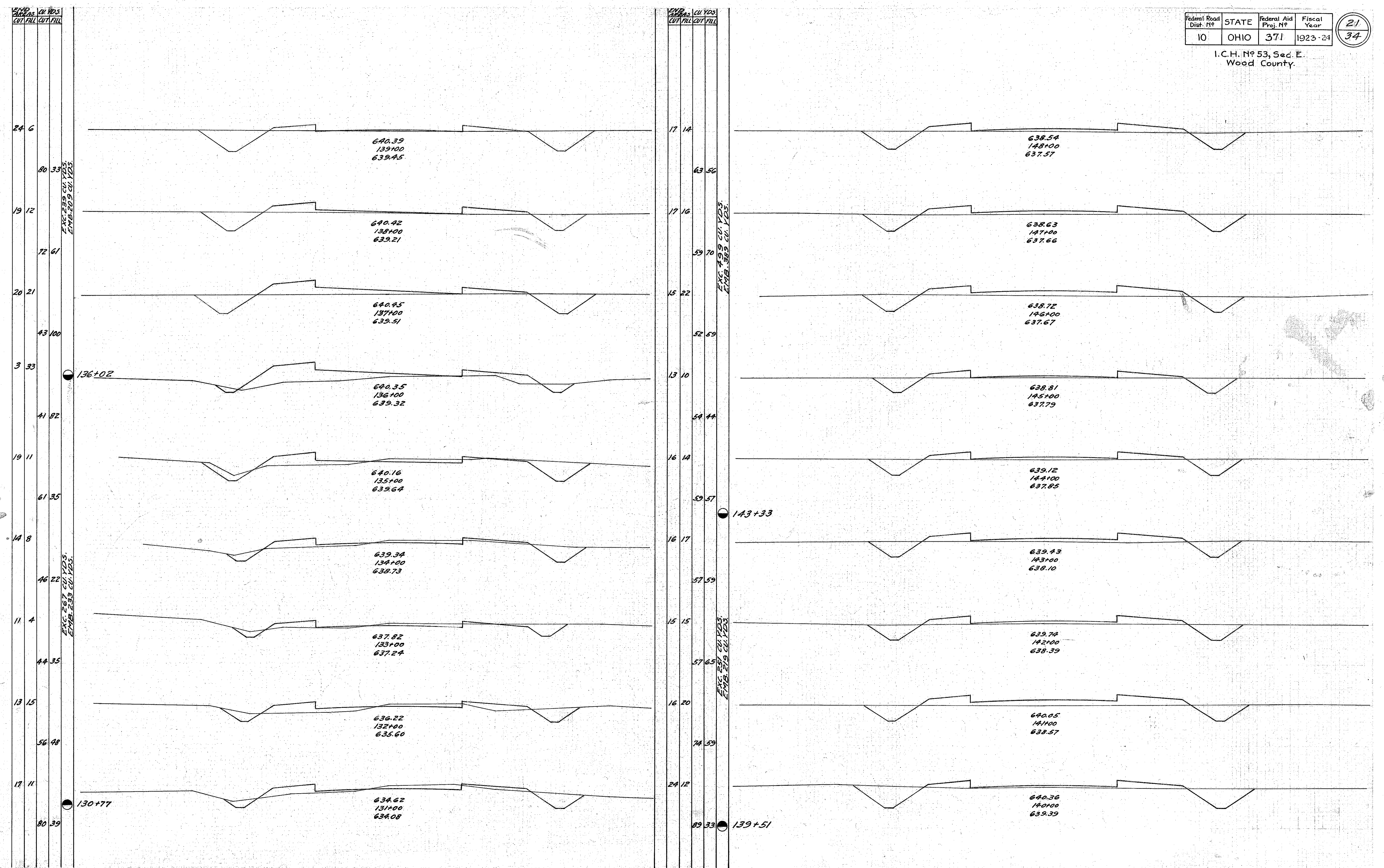
Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year	
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Wood County.

Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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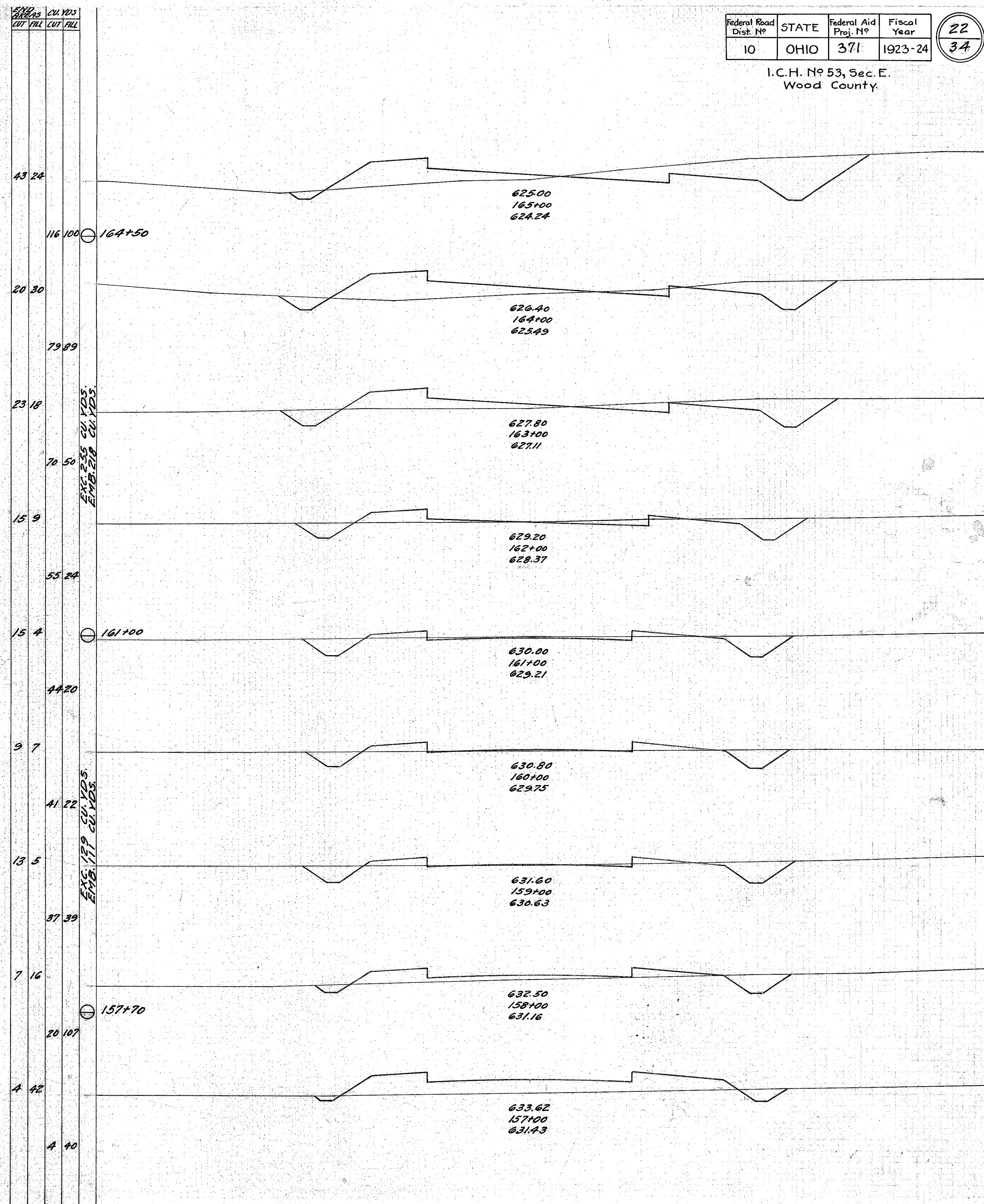
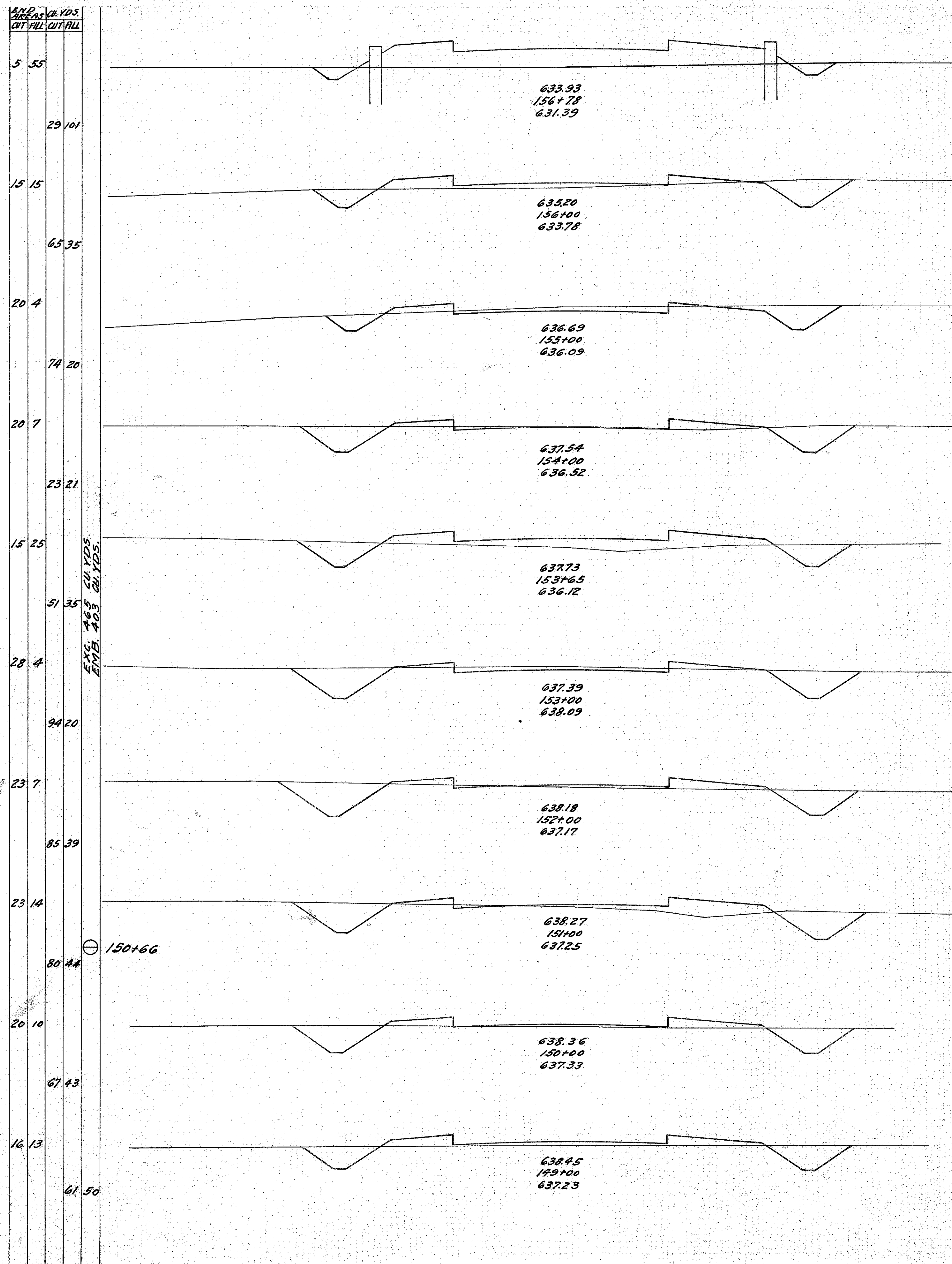
I.C.H. No 53, Sec. E.
Wood County.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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34

I.C.H. No 53, Sec. E.
Wood County.

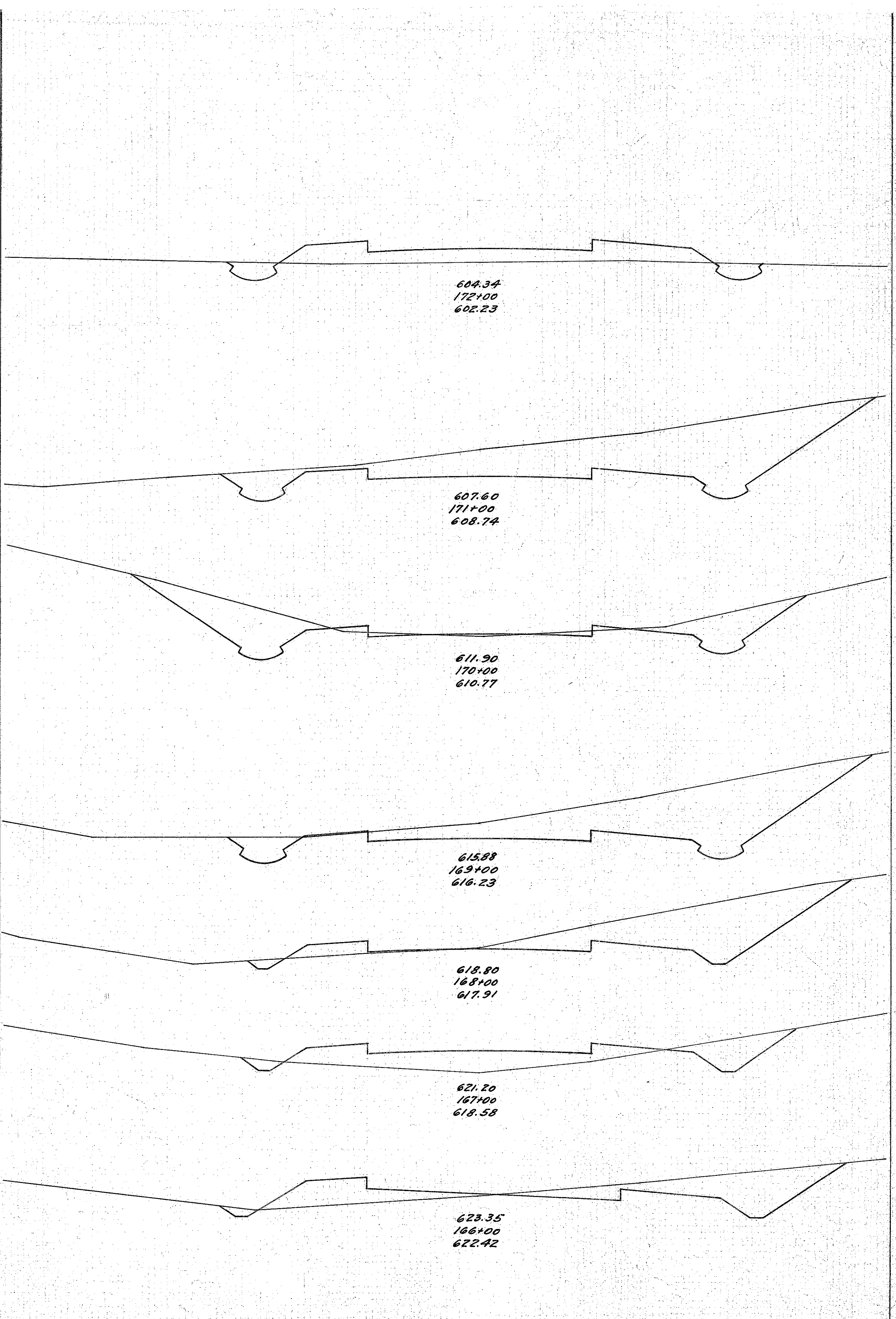


Federal Road Dist. No	STATE	Federal Aid Proj. No	Fiscal Year
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34

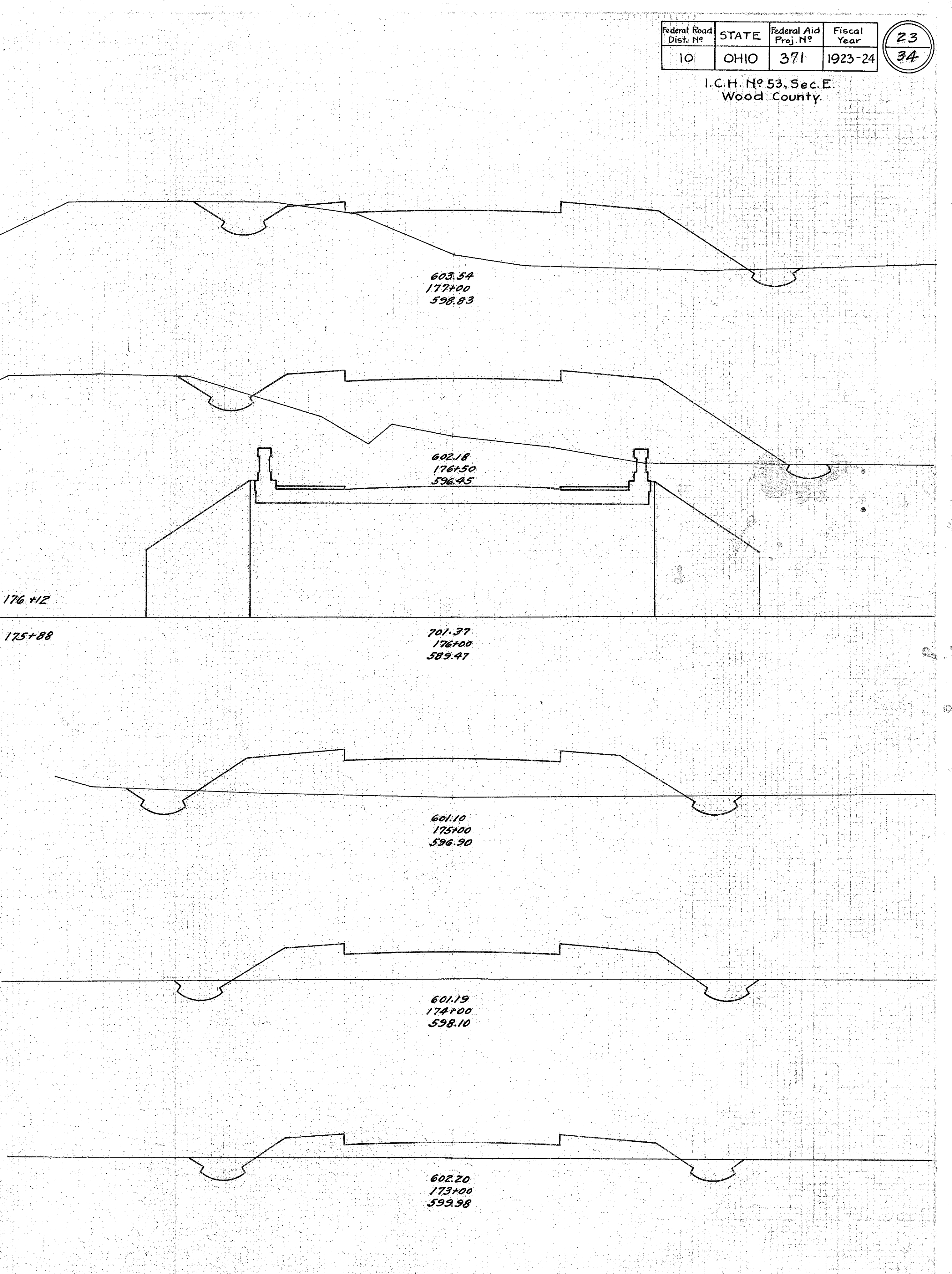
I.C.H. No 53, Sec. E.
Wood County.

END	CU. YDS.
8 41	
259 76	
132 0	
344 4	
54 2	
294 6	
105 1	
319 13	
67 6	
154 80	
16 37	
102 107	
39 21	
152 83	



AREA	CU. YDS.
CUT	FILL
18 116	
26 294	
11 201	
15 345	
176 +12	
175 +88	
28 395	
9 116	
32 369	
8 83	
39 243	
13 48	
39 165	

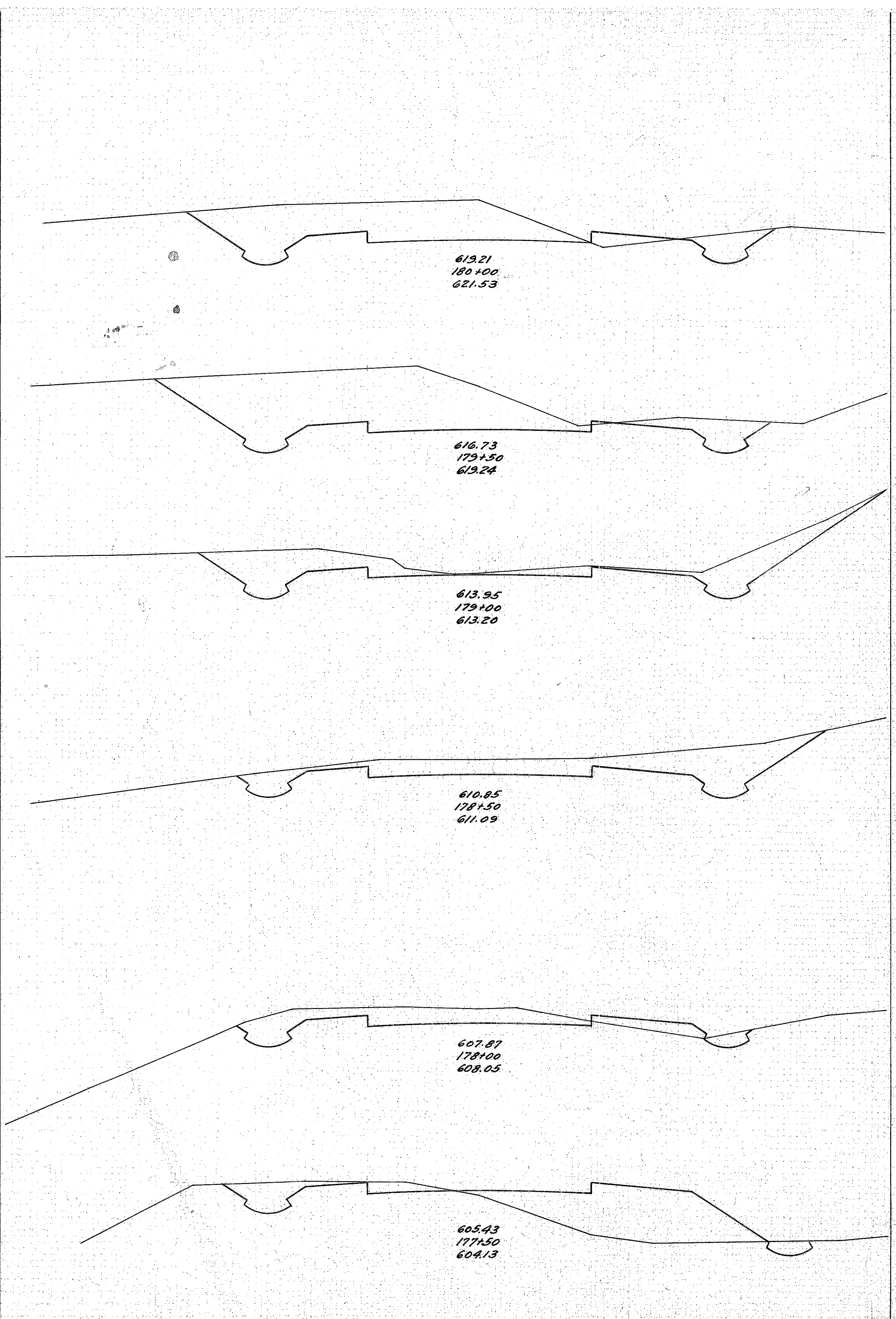
Exc. 1926
Emb. 1926
Cu. Yds.



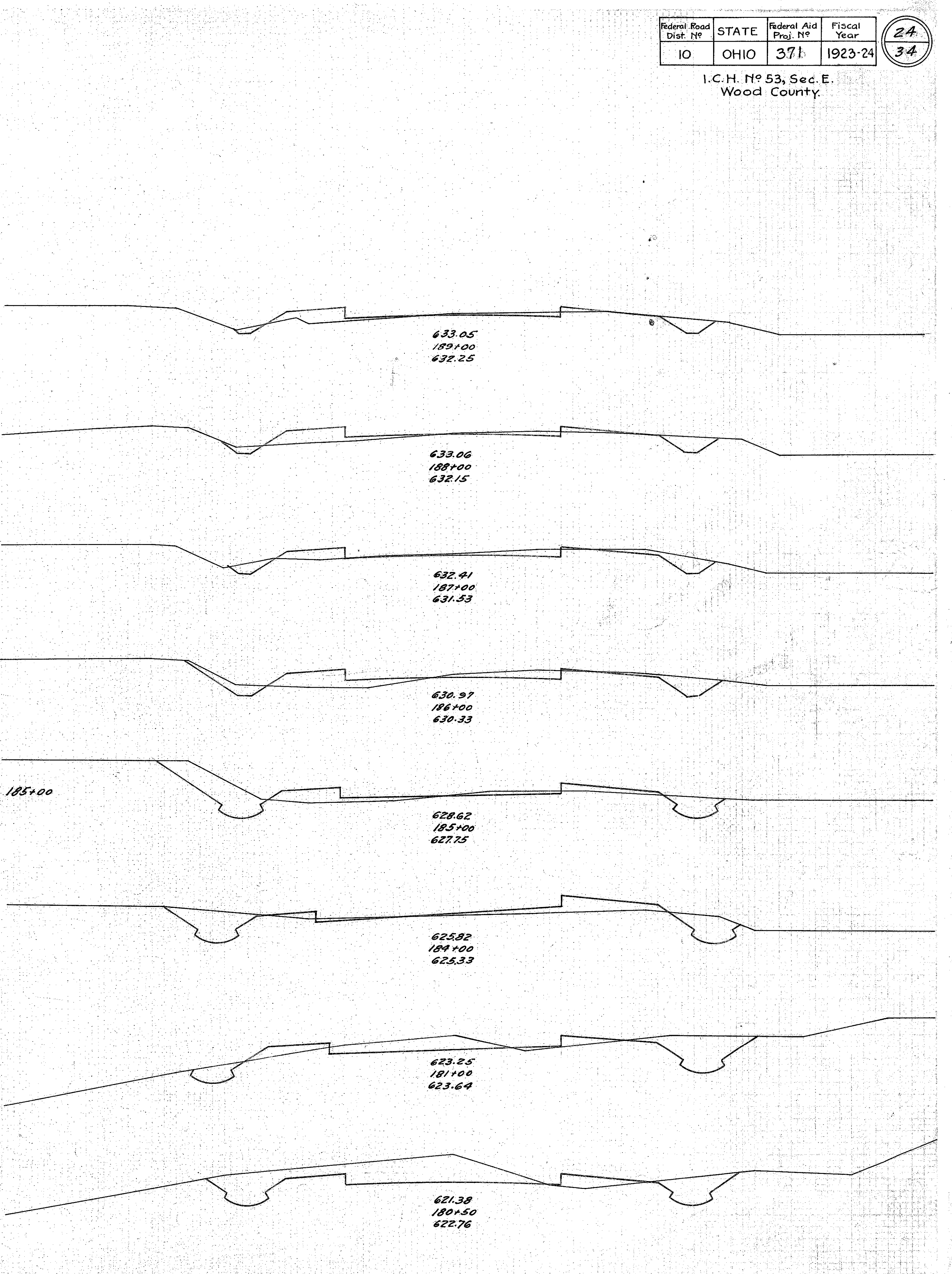
Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year	24 34
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I.C.H. No 53, Sec. E.
Wood County.

E.M.B.	CU. YDS.	
	CUT	FILL
92.5		
217.5		
142.0		
192.0		
64.0		
123.0		
63.0		
99.7		
38.8		
53.67		
19.65		
34.168		



E.M.B.	CU. YDS.	
	CUT	FILL
7.8		
28.33		
8.10		
37.26		
12.4		
52.28		
16.11		
72.43		
23.12		
82.46		
21.13		
86.34		
33.8		
78.13		
51.6		
133.10		

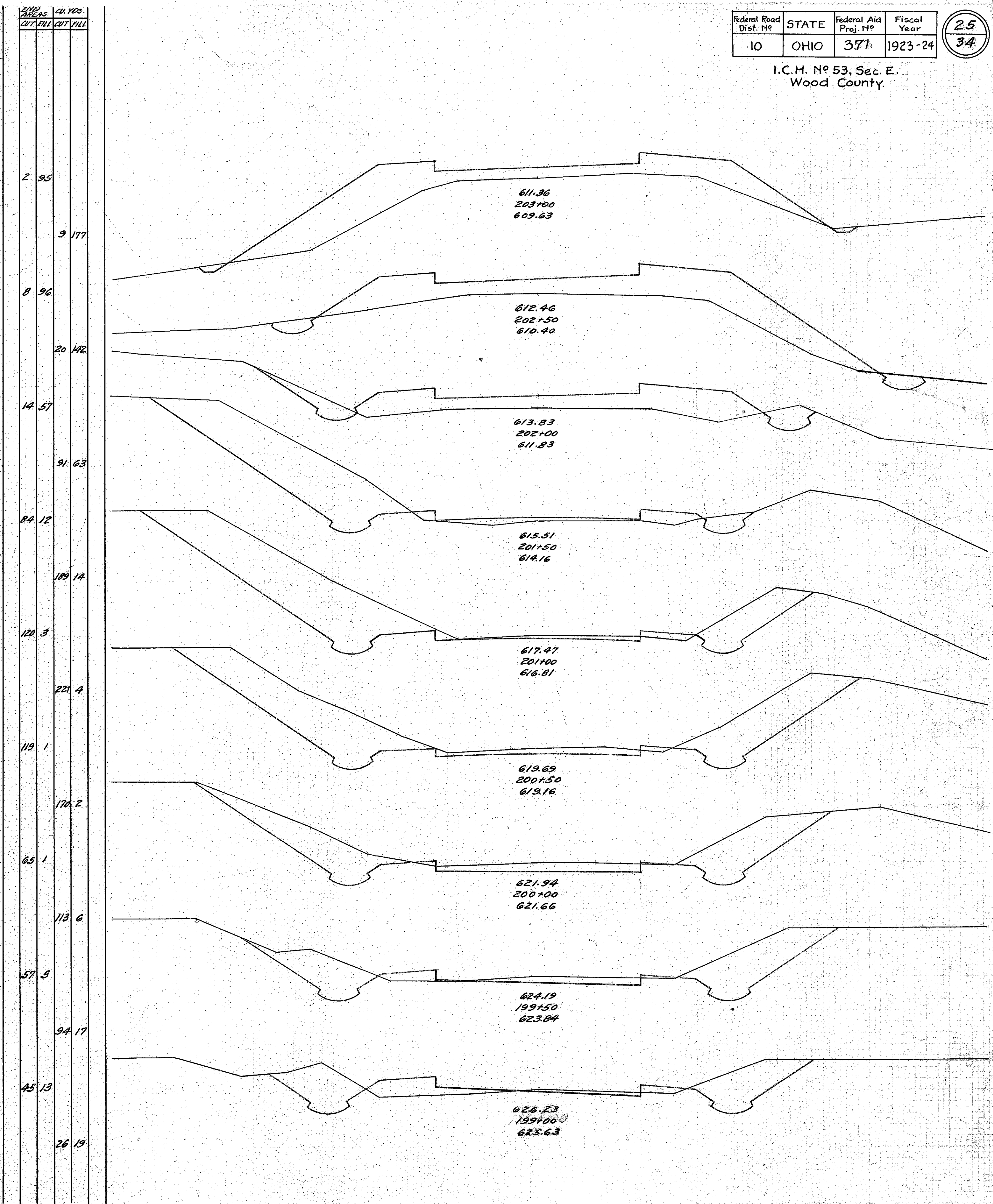
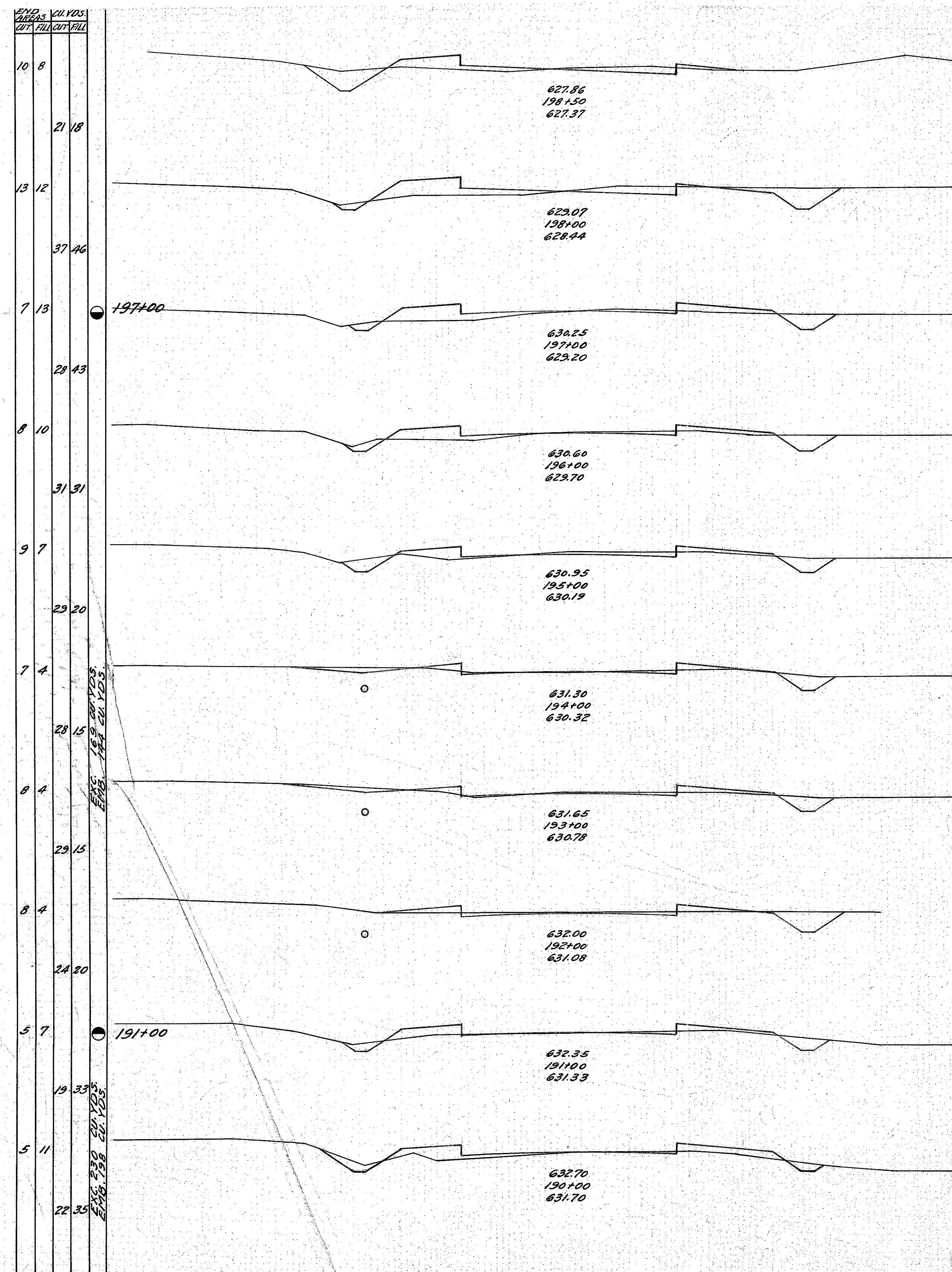


E.M.B. 207 589 585 583 581 579 577 575 573 571 569 567 565 563 561 559 557 555 553 551 549 547 545 543 541 539 537 535 533 531 529 527 525 523 521 519 517 515 513 511 509 507 505 503 501 499 497 495 493 491 489 487 485 483 481 479 477 475 473 471 469 467 465 463 461 459 457 455 453 451 449 447 445 443 441 439 437 435 433 431 429 427 425 423 421 419 417 415 413 411 409 407 405 403 401 399 397 395 393 391 389 387 385 383 381 379 377 375 373 371 369 367 365 363 361 359 357 355 353 351 349 347 345 343 341 339 337 335 333 331 329 327 325 323 321 319 317 315 313 311 309 307 305 303 301 299 297 295 293 291 289 287 285 283 281 279 277 275 273 271 269 267 265 263 261 259 257 255 253 251 249 247 245 243 241 239 237 235 233 231 229 227 225 223 221 219 217 215 213 211 209 207 205 203 201 199 197 195 193 191 189 187 185 183 181 179 177 175 173 171 169 167 165 163 161 159 157 155 153 151 149 147 145 143 141 139 137 135 133 131 129 127 125 123 121 119 117 115 113 111 109 107 105 103 101 99 97 95 93 91 89 87 85 83 81 79 77 75 73 71 69 67 65 63 61 59 57 55 53 51 49 47 45 43 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1

Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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I.C.H. No 53, Sec. E.
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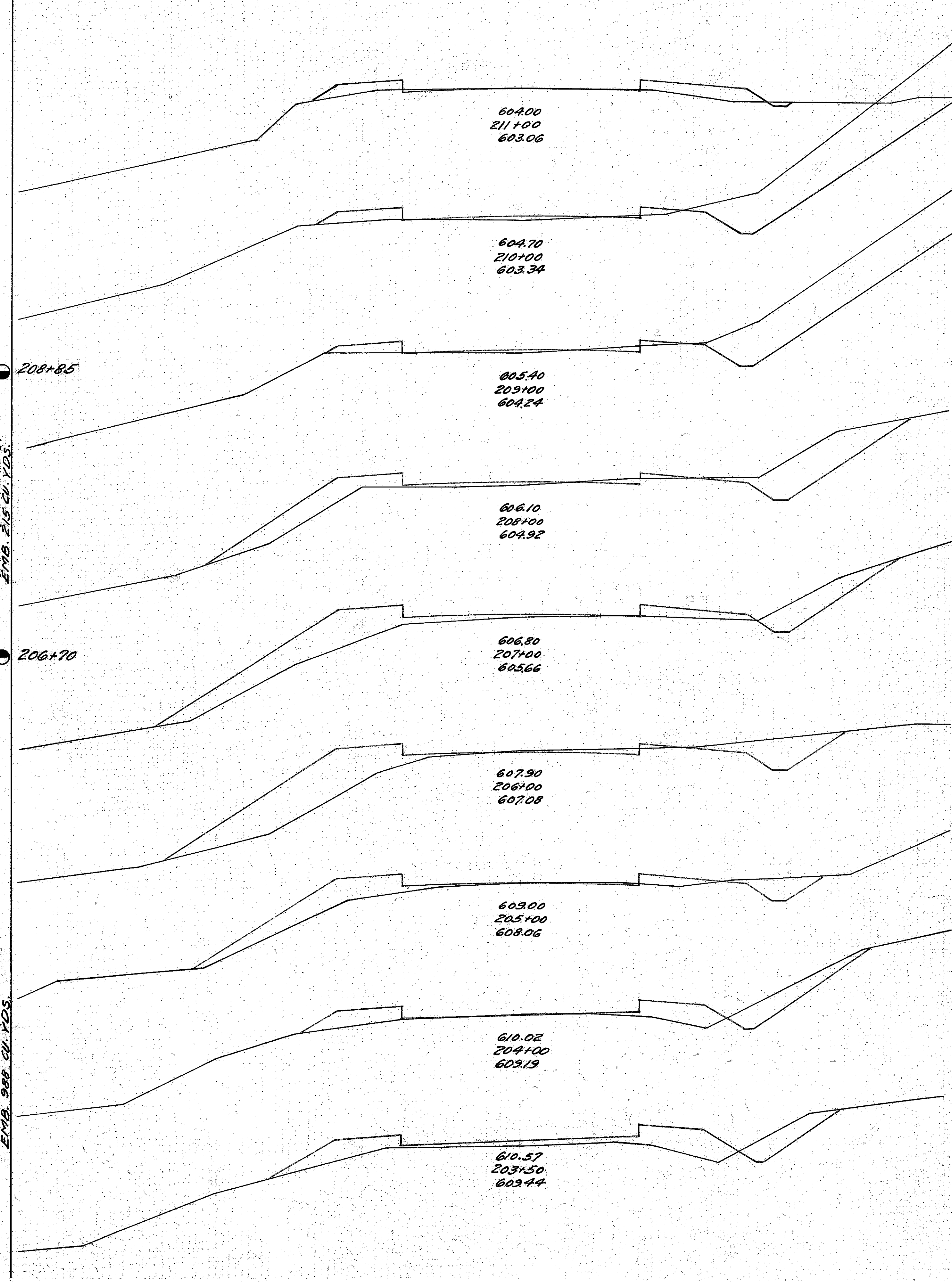
Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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I.C.H. No 53, Sec. E.
Wood County.

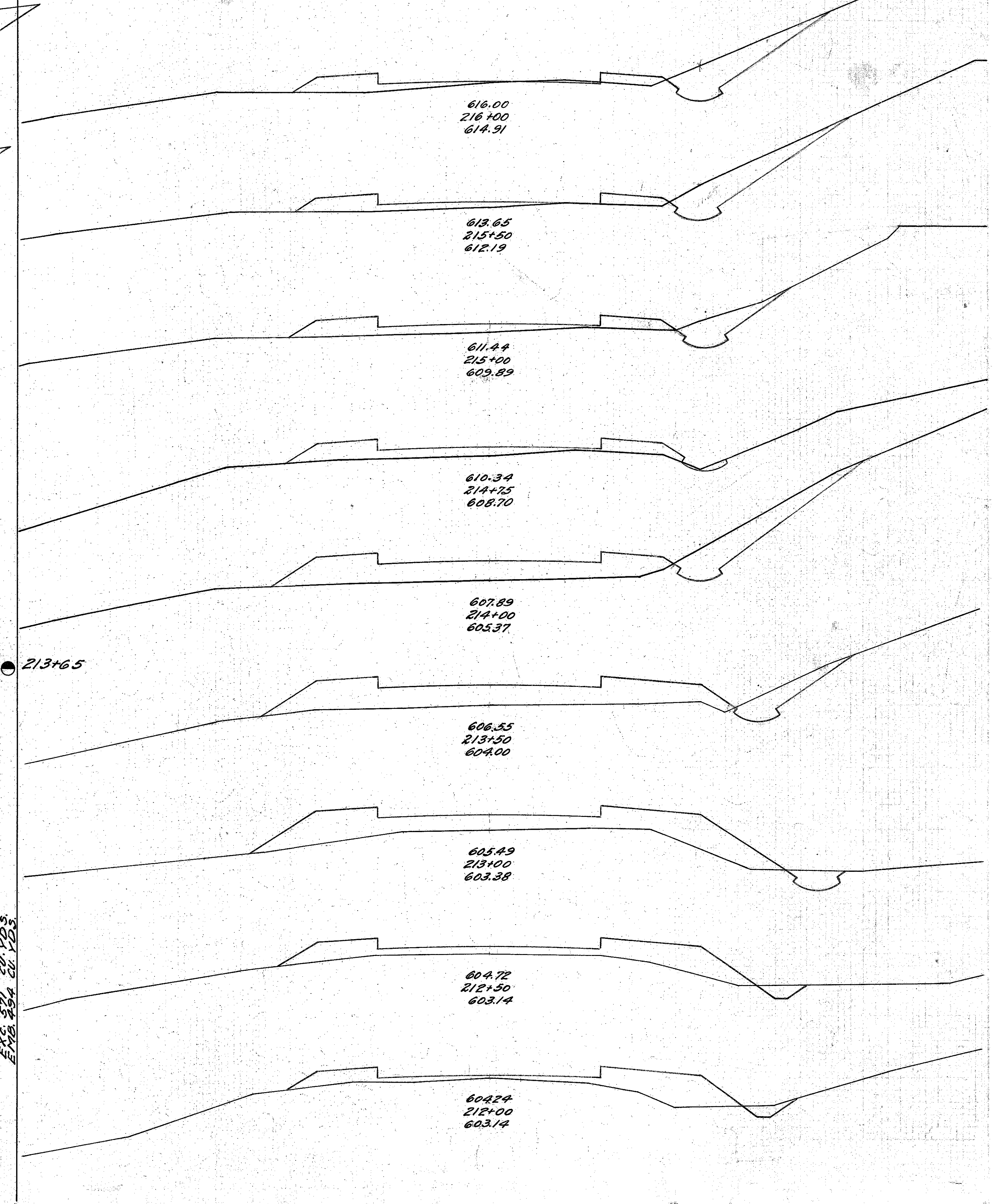
END AREAS		CU. YDS.	
CUT	FILL	CUT	FILL
2	13		
182	43		
96	10		
317	30		
75	6		
187	50		
26	21		
74	120		
14	44		
54	165		
15	45		
41	132		
7	26		
35	78		
12	16		
20	41		
9	28		

EMB. 215 CU. YDS.
EMB. 215 CU. YDS.
EMB. 1139 CU. YDS.
EMB. 988 CU. YDS.



END AREAS		CU. YDS.	
CUT	FILL	CUT	FILL
18	16		
36	32		
21	19		
30	41		
11	25		
6	23		
2	26		
39	106		
26	51		
34	106		
10	64		
15	123		
6	69		
8	102		
3	41		
5	70		
2	35		
7	89		

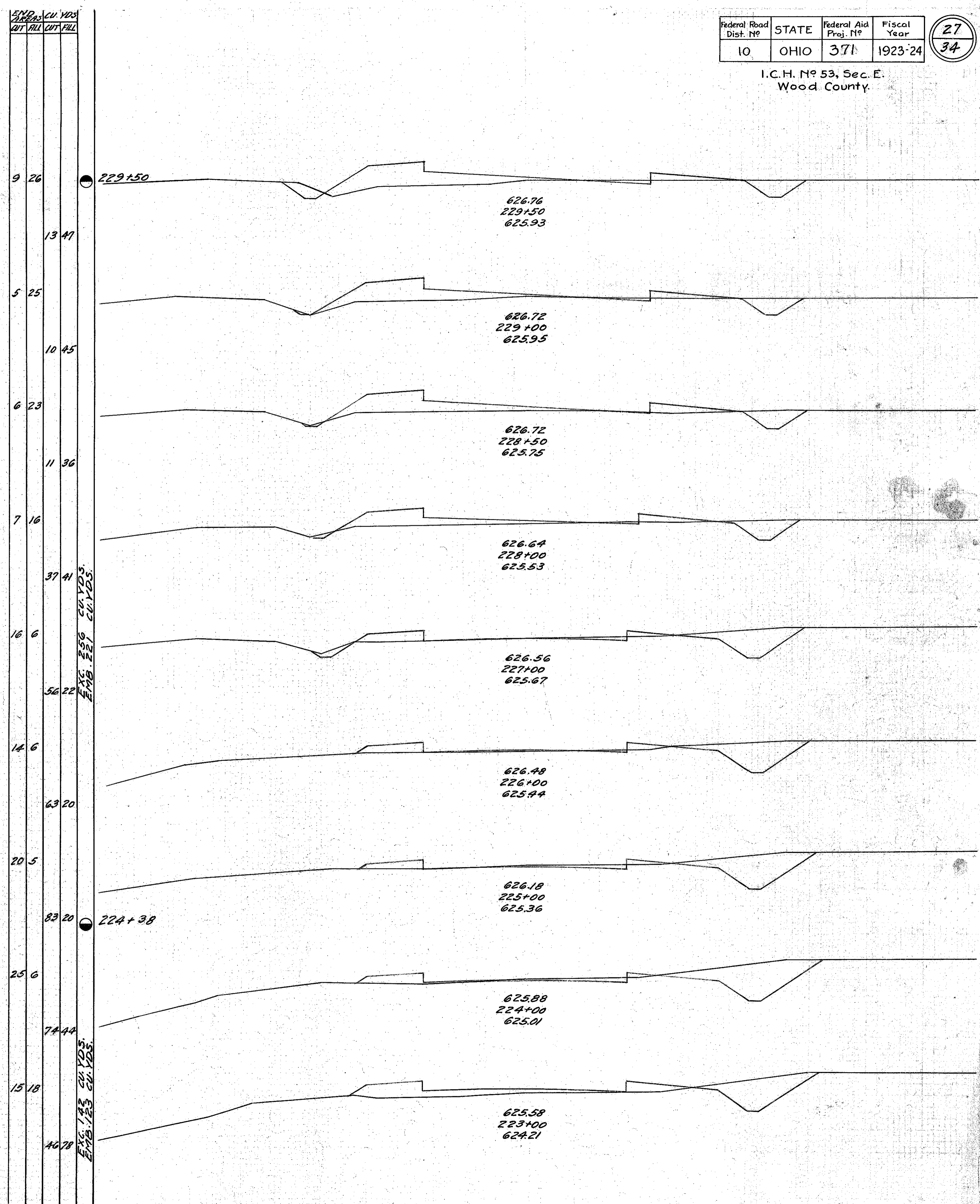
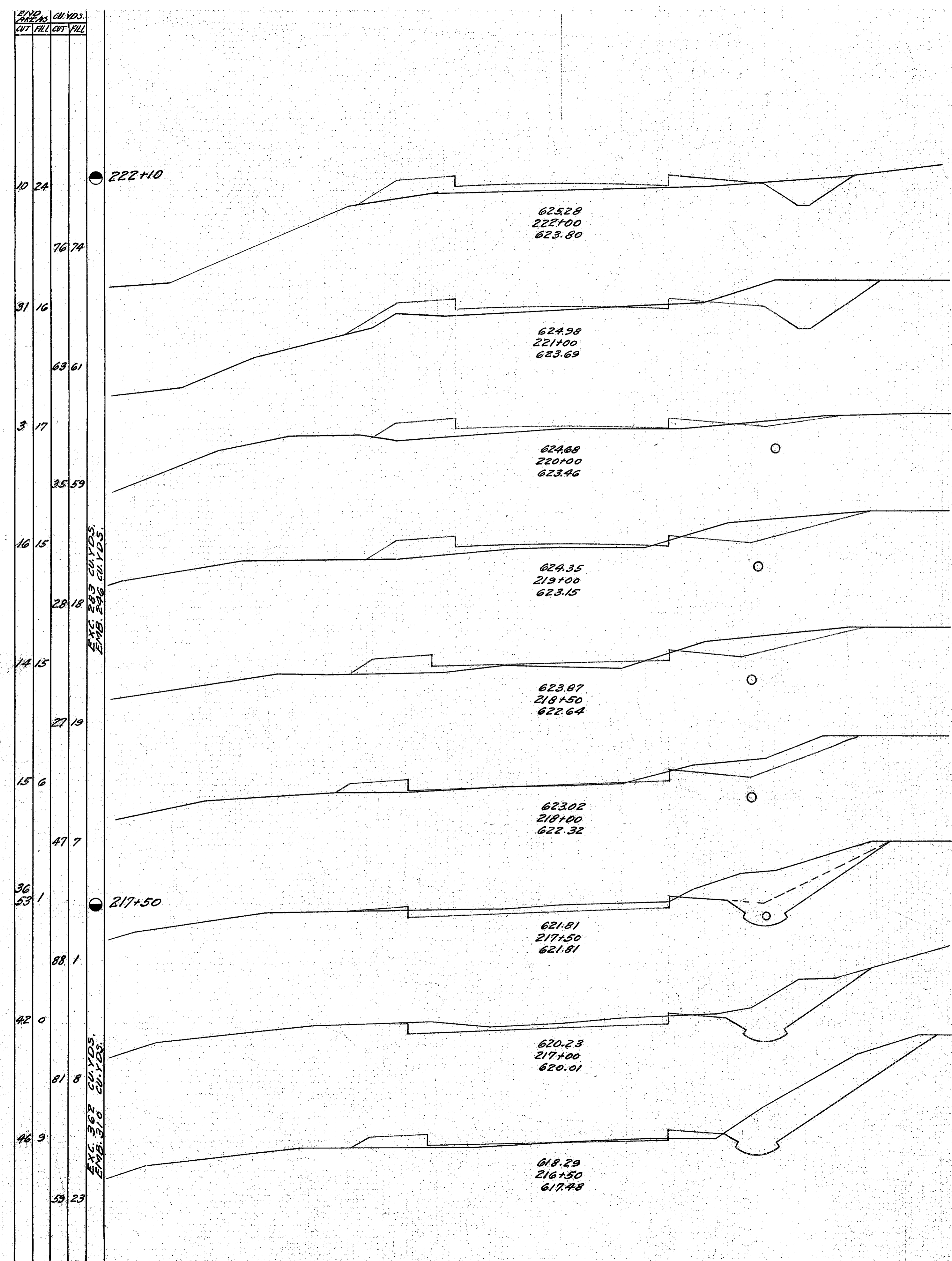
EMB. 234 CU. YDS.
EMB. 154 CU. YDS.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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Wood County.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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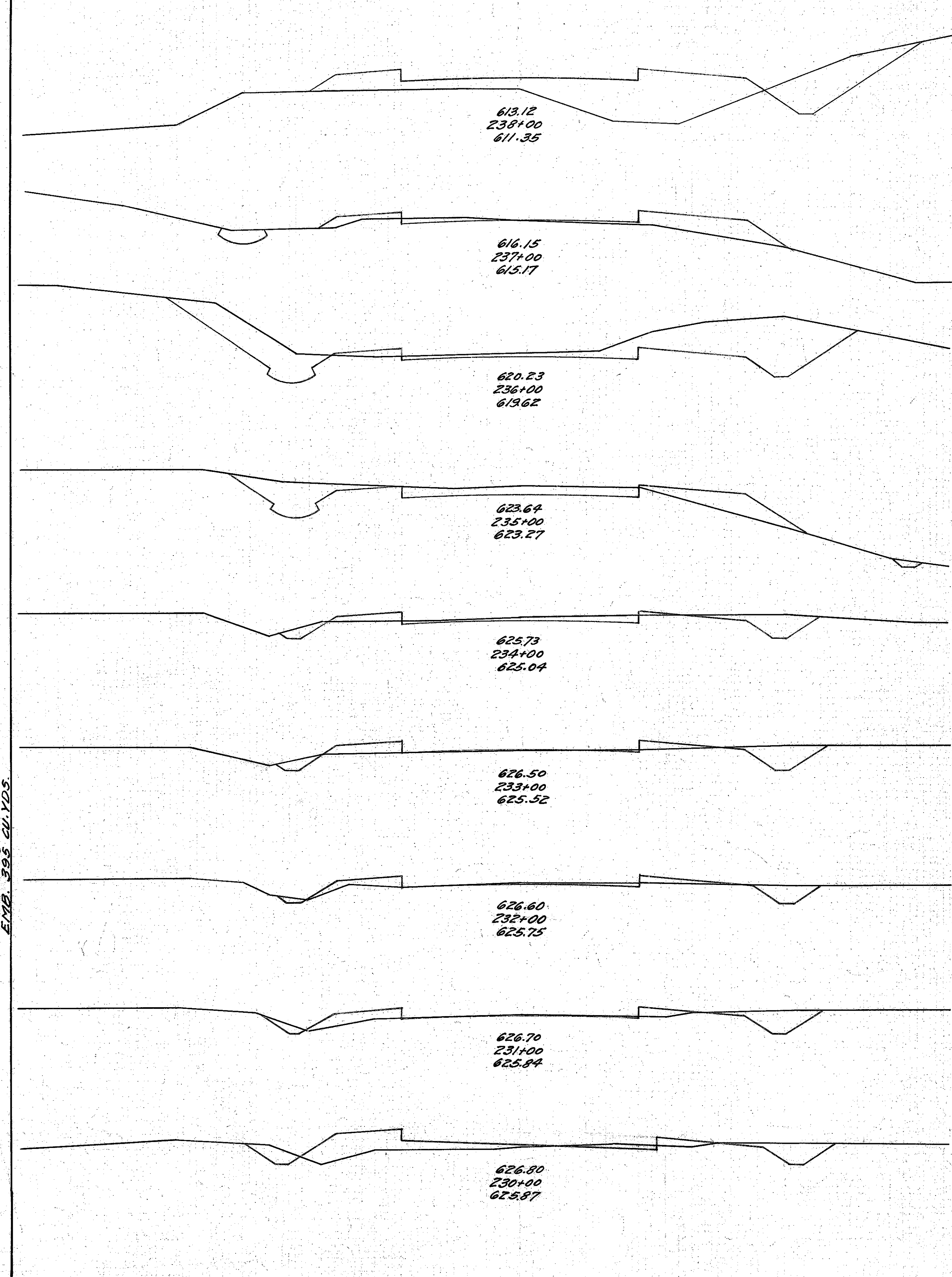
28
34

I.C.H. No 53, Sec. E.
Wood County.

END STATION	CUT	FILL	CUT	FILL
21	63			
		50	152	
6	19			
		145	41	
72	3			
		182	28	
26	12			
		78	28	
16	3			
		48	17	
10	6			
		32	22	
7	6			
		30	26	
9	8			
		37	48	
11	18			
		19	41	

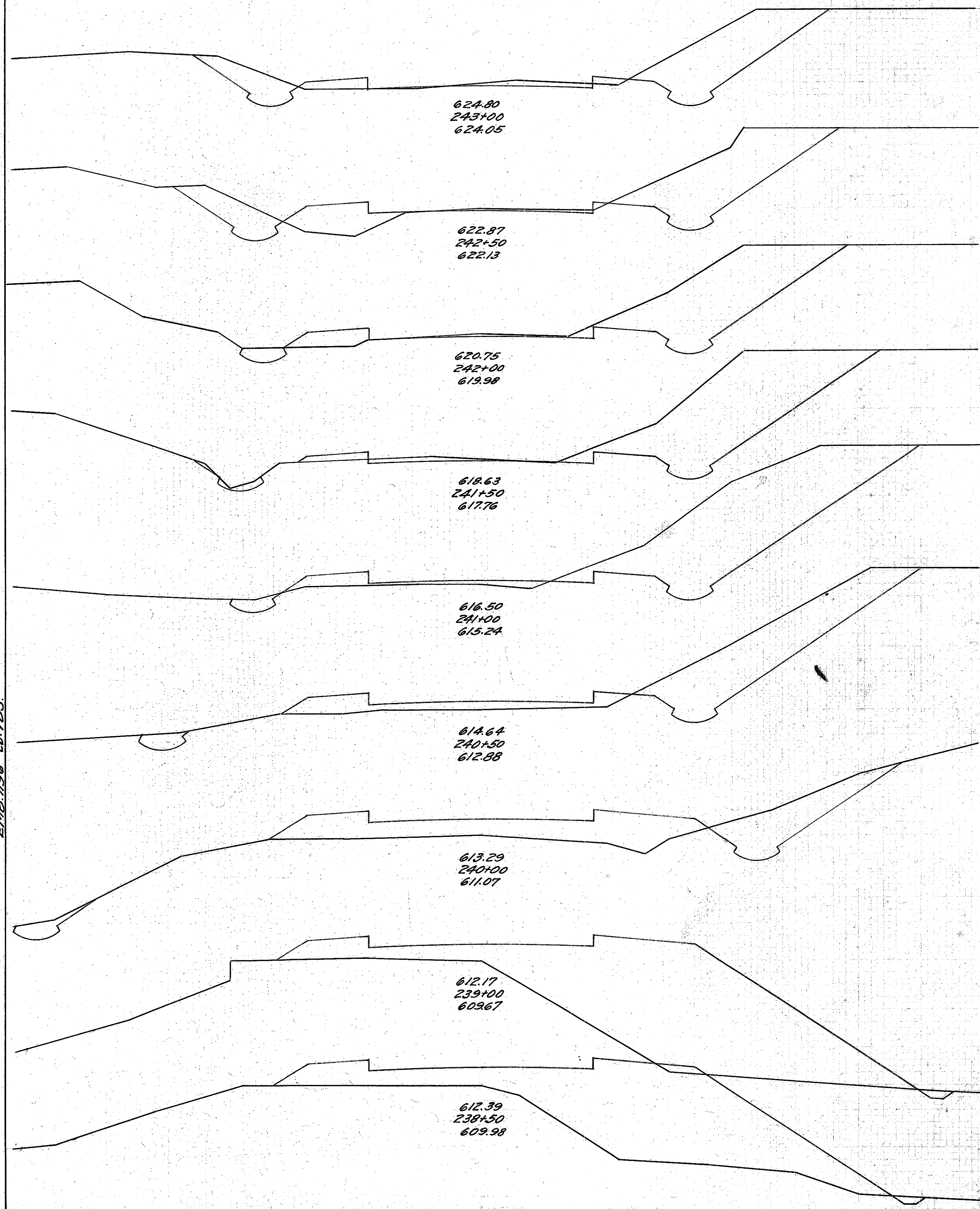
238+35

EXC. 433 CU. YDS.
EMB. 395 CU. YDS.



END STATION	CUT	FILL	CUT	FILL
64	5			
		127	39	
73	16			
		135	22	
73	8			
		157	10	
96	3			
		198	13	
118	11			
		179	31	
75	22			
		103	75	
36	59			
		67	52	
0	224			
		0	388	
0	174			
		19	219	

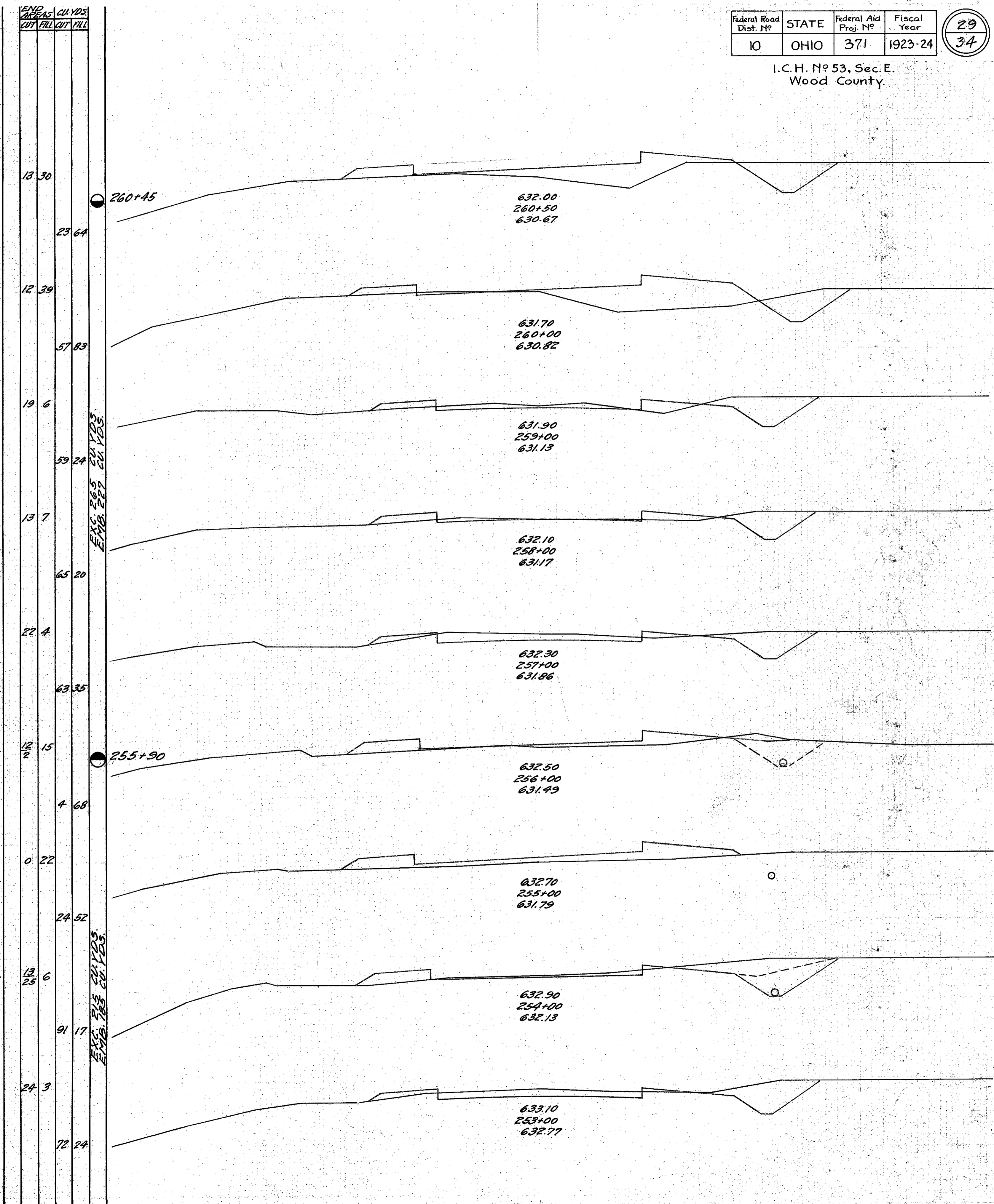
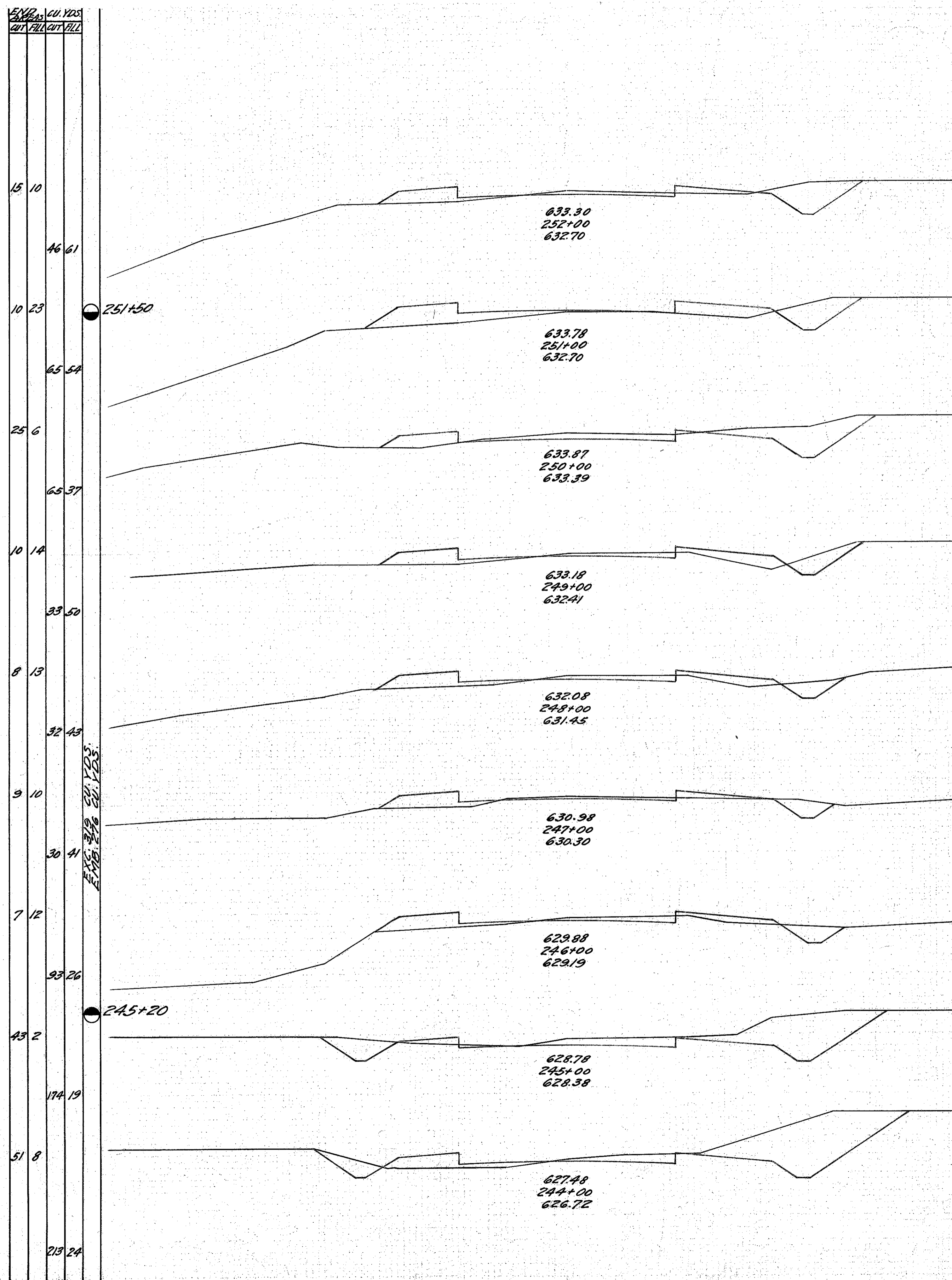
EXC. 796 CU. YDS.
EMB. 256 CU. YDS.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
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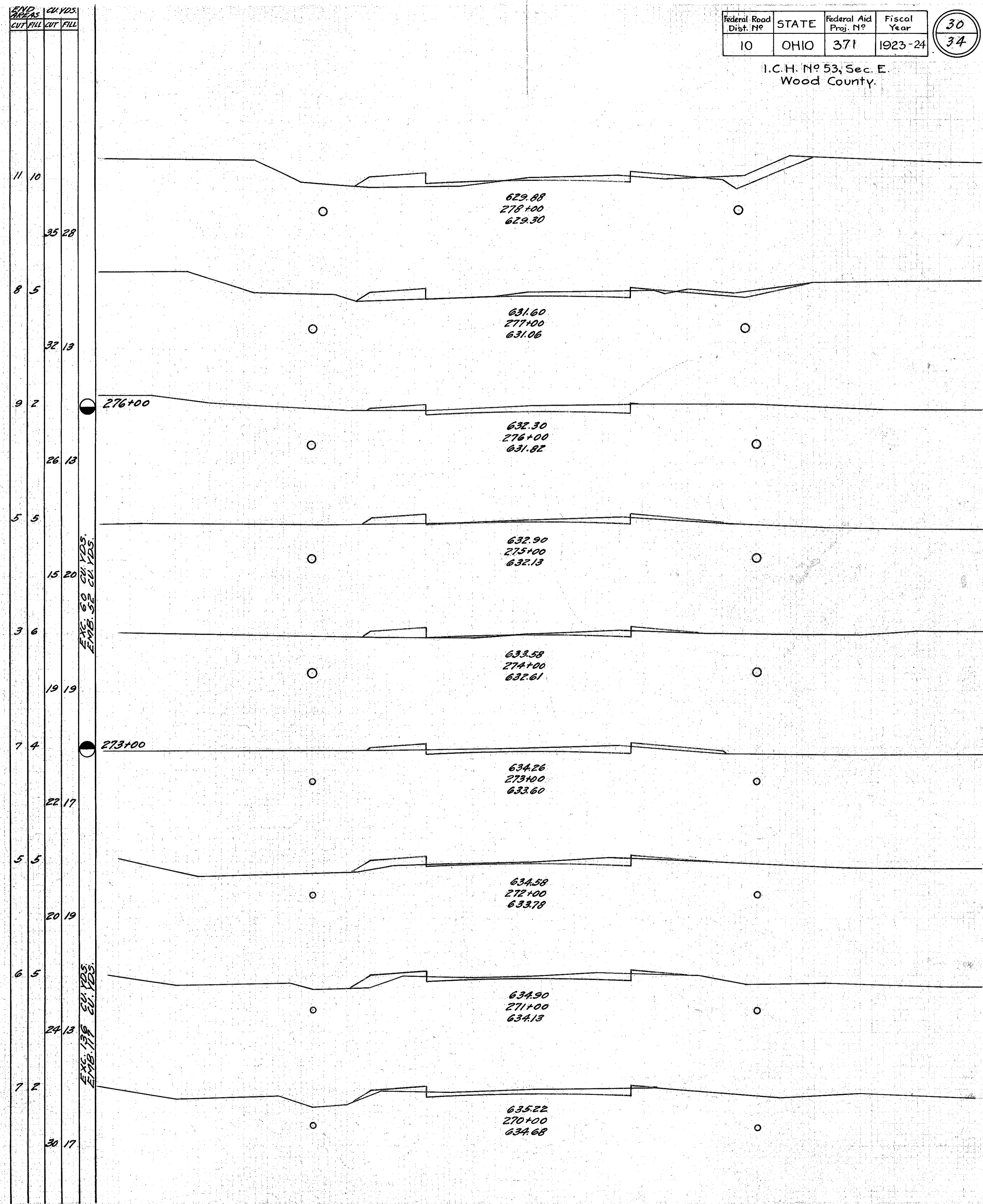
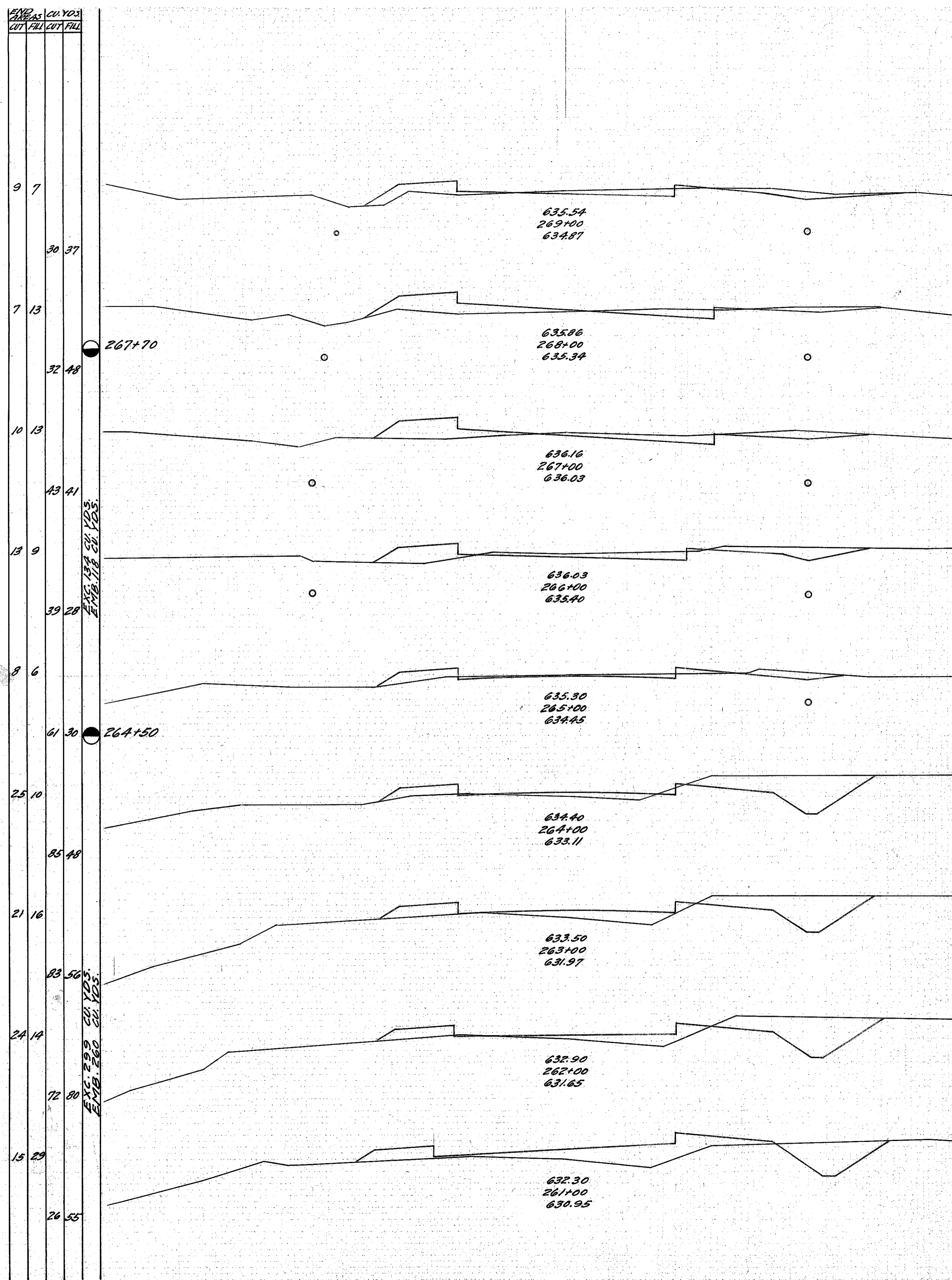
I.C.H. No 53, Sec. E
Wood County.



Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

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I.C.H. No 53, Sec. E.
Wood County.

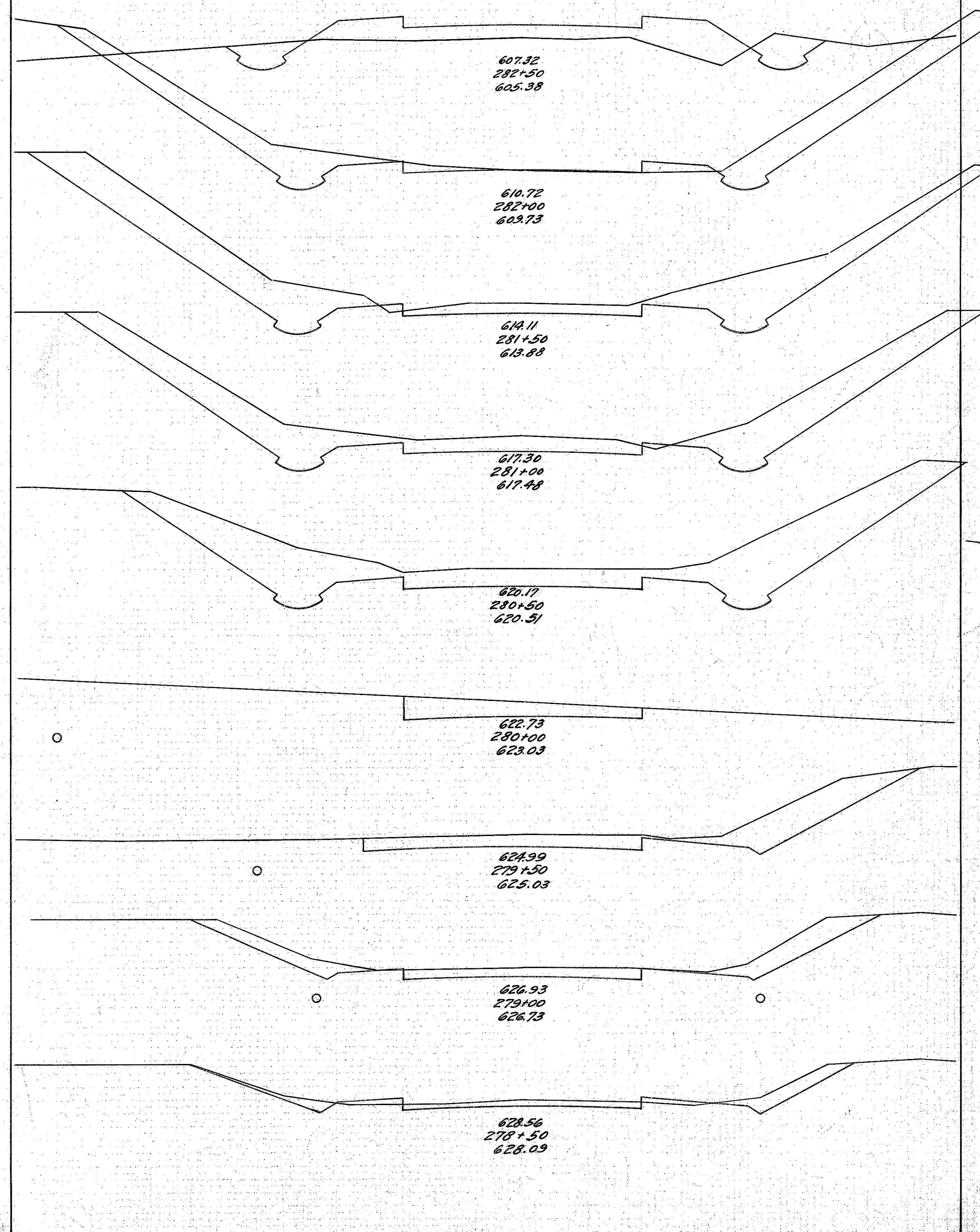


Federal Road Dist. No.	STATE	Federal Aid Proj. No.	Fiscal Year
10	OHIO	371	1923-24

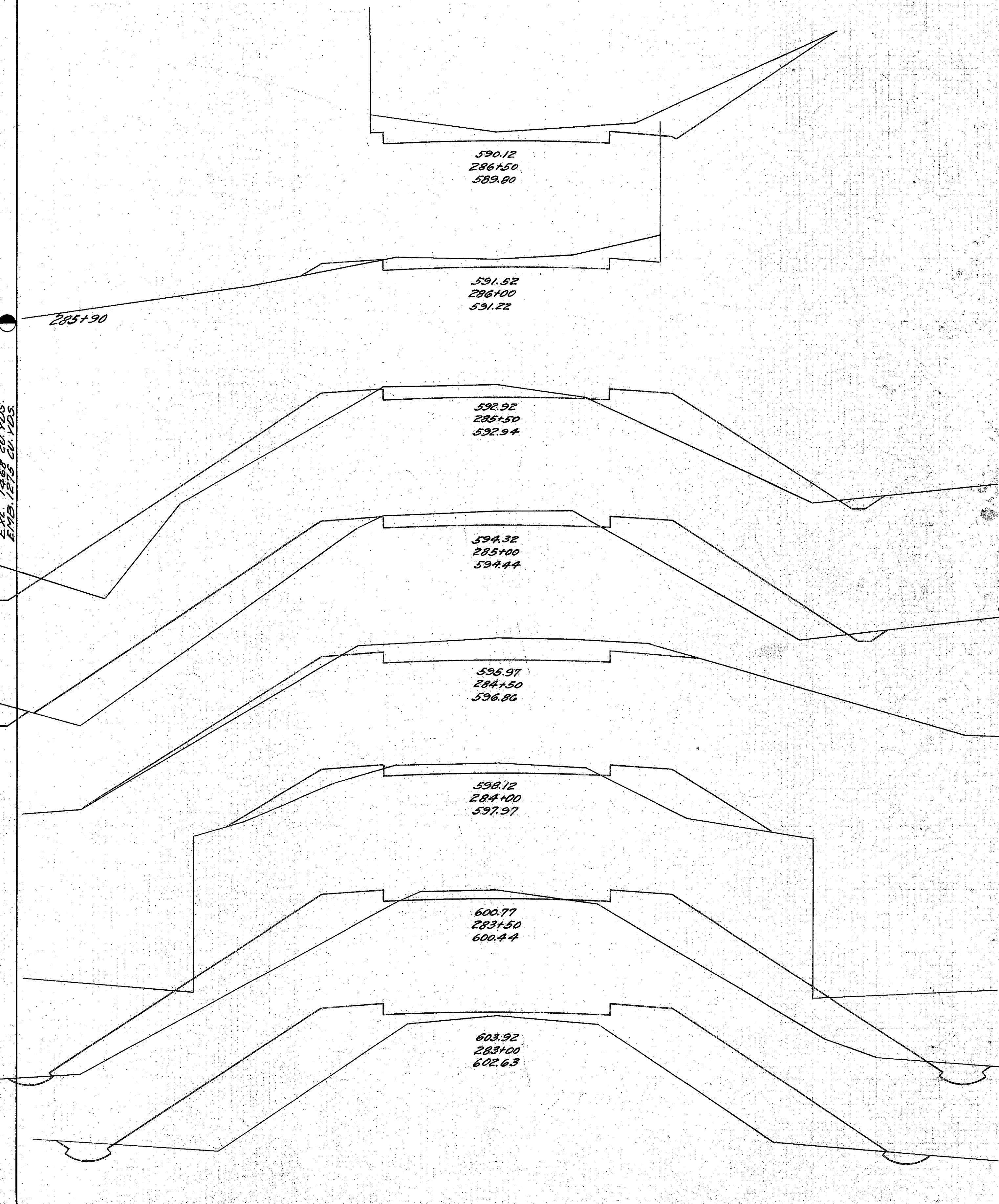
31
34

I.C.H. No 53, Sec. E
Wood County.

Elev.	AREAS		CU. YDS.	
	CUT	FILL	CUT	FILL
17	46			
94	46			
84	4			
136	5			
128	1			
230	1			
120	0			
242	0			
142	0			
167	0			
38	0			
82	0			
50	0			
83	0			
40	0			
55	3			
19	3			
28	12			



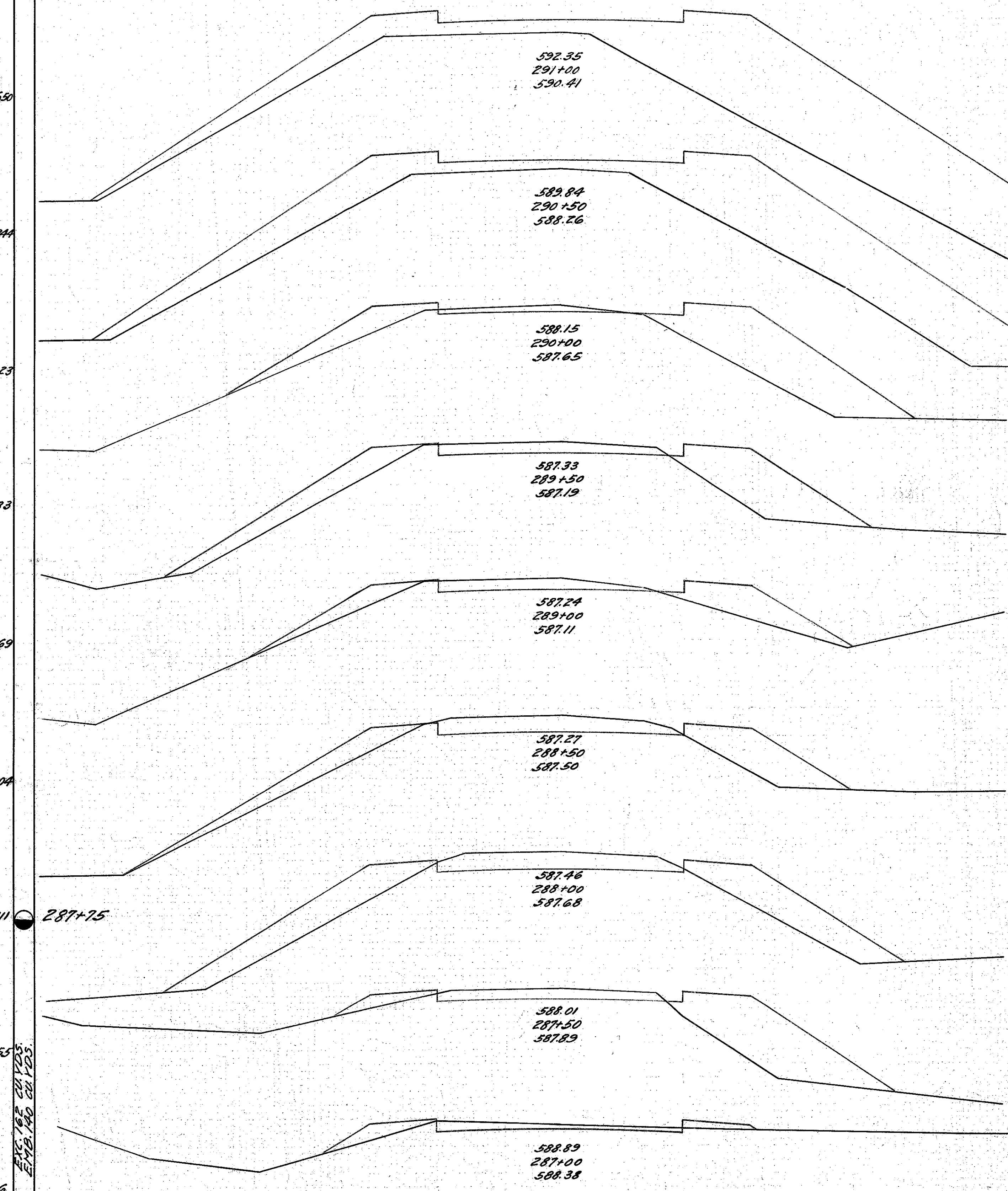
Elev.	AREAS		CU. YDS.	
	CUT	FILL	CUT	FILL
49	0			
67	3			
23	3			
49	99			
30	104			
52	211			
26	124			
41	123			
18	9			
28	42			
12	36			
23	174			
13	152			
19	918			
7	191			
22	220			



Federal Road Dist. No	STATE	Federal Aid Proj. No	Fiscal Year	32 34
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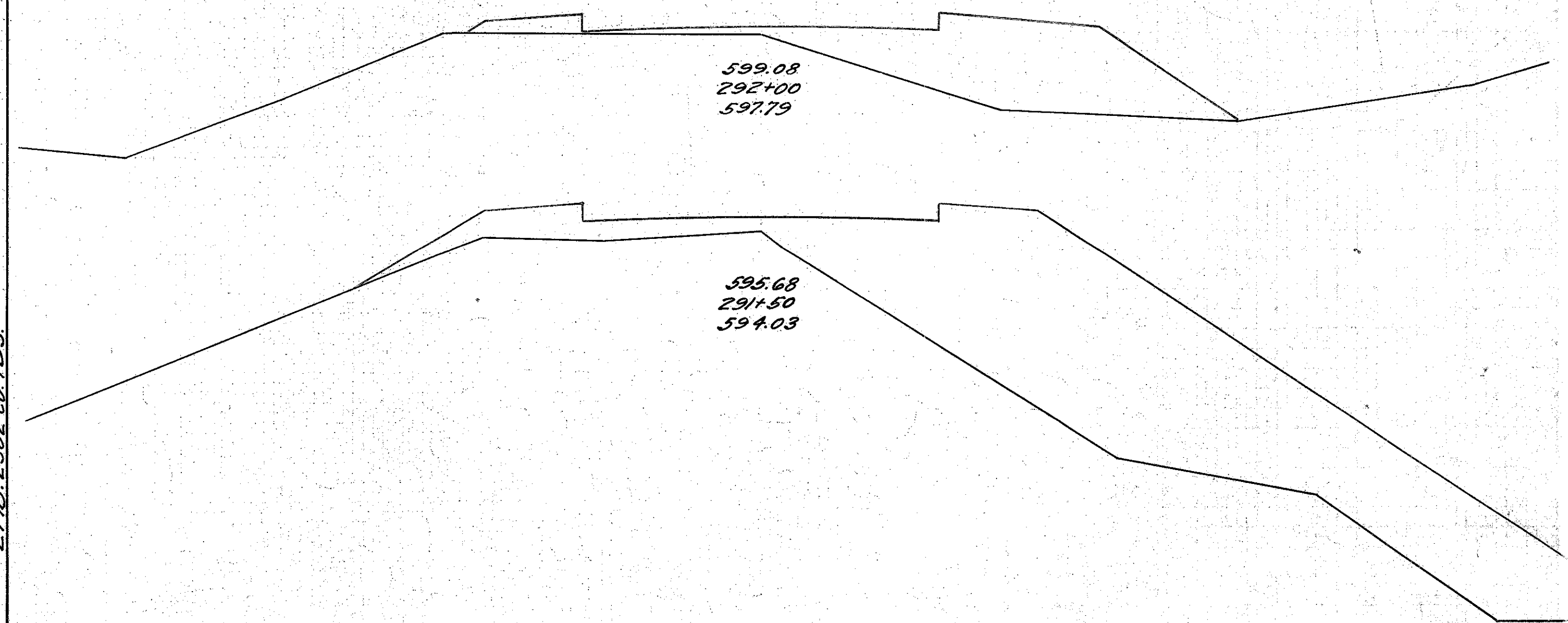
I.C.H. No 53, Sec. E.
Wood County.

STATION	CUT		FILL	
	AREA	CU. YDS.	AREA	CU. YDS.
0 51				
0 650				
0 191				
5 244				
5 73				
16 123				
12 60				
21 83				
11 30				
28 69				
19 44				
35 104				
19 68				
30 111				
13 52				
19 555				
7 7				
52 6				



STATION	CUT		FILL	
	AREA	CU. YDS.	AREA	CU. YDS.
15 15				
6 40				
0 74				
0 933				
0 286				
0 738				

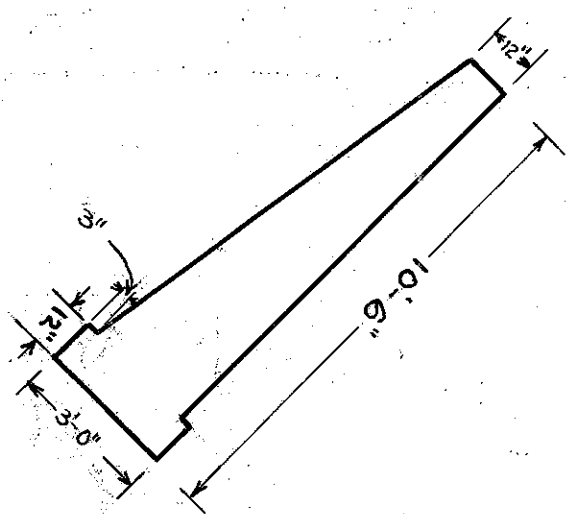
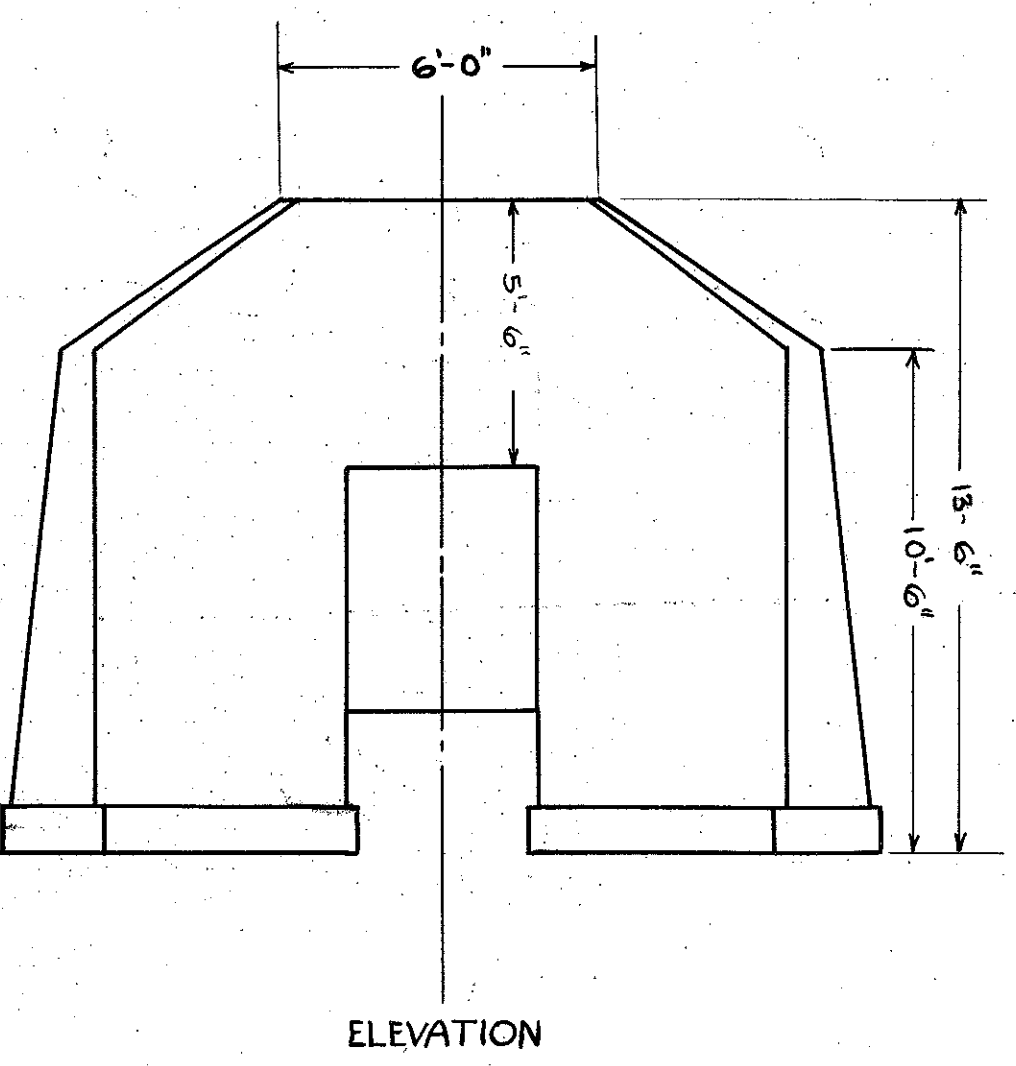
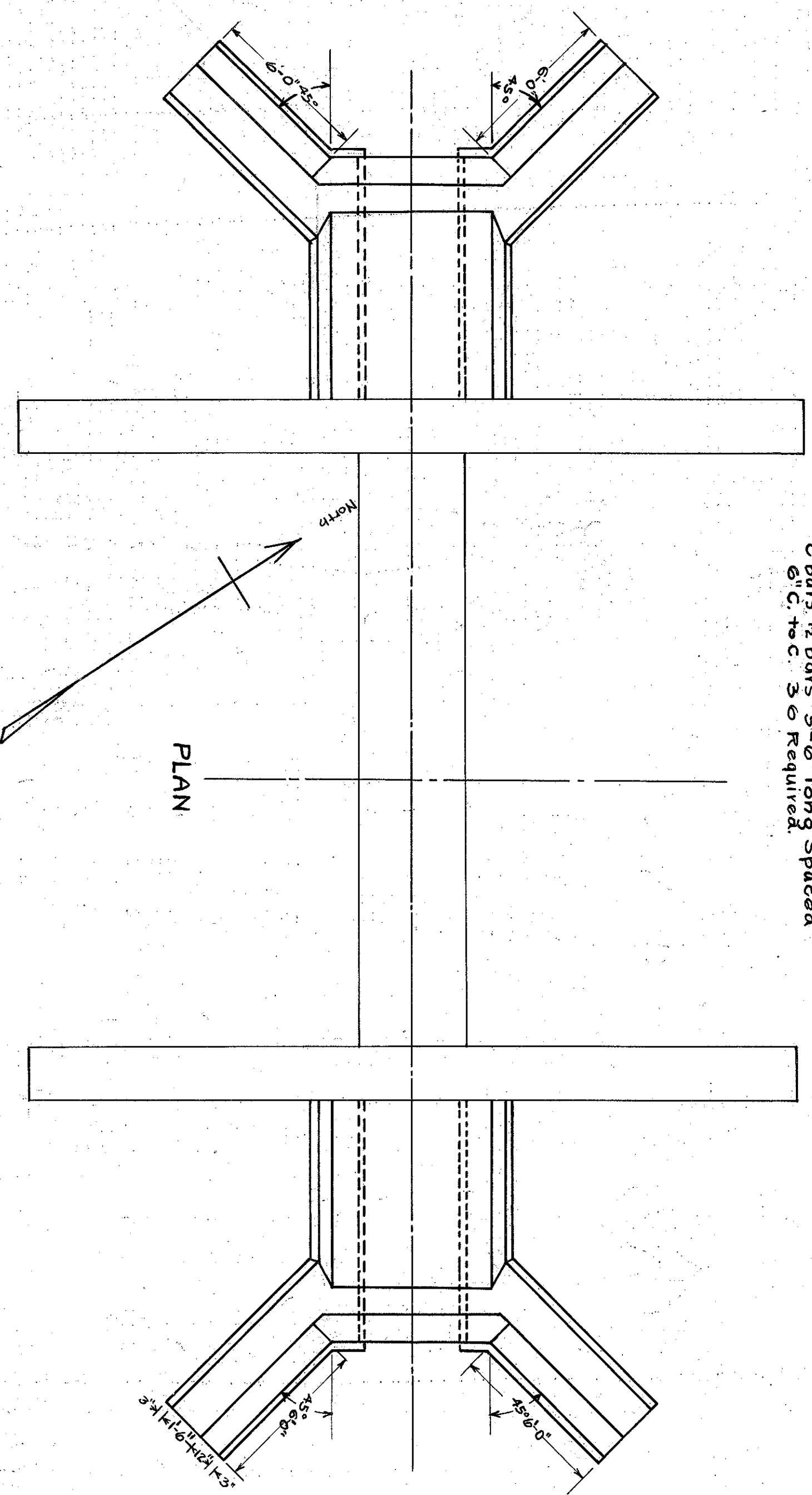
292+23.75 - END OF IMPROVEMENT.



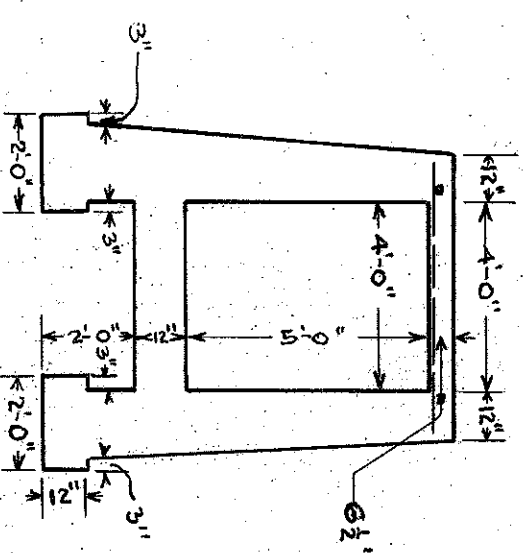
EMB. 1.50 CU. YDS.

EMB. 1.50 CU. YDS.

Bar Schedule
 Bars 1/2" dia. 13'-0" long
 C bars 1/2" dia. 5'-0" long
 @ C to C. 3 @ Required

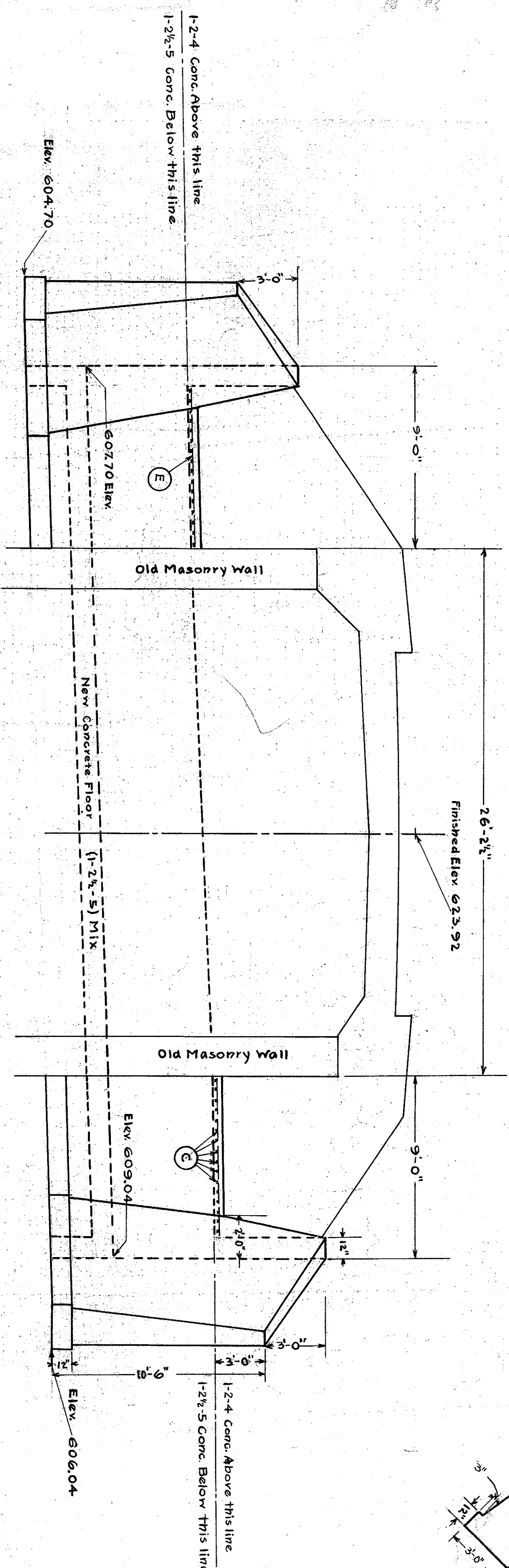


SECTION OF EXPANSION



Federal Road District No.	STATE	Federal Aid Project
10	OHIO	371
I.C.H. No. 53 SEC. E		
Wood County		

Year
 923-24
 33
 34



ESTIMATE OF QUANTITIES
 16 cu yds. Excavation
 104 cu yds. 1-2\"/>

