

SR 39
40-A

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		

16

I.C.H. 145 SEC. I
HOLMES COUNTY

FILE NO. 145

File # 498

STATE OF OHIO
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
DIVISION OF HIGHWAYS
BUREAU OF CONSTRUCTION

MANSFIELD - MILLERSBURG ROAD

I.C.H. No. 145 SEC. I PET. No. 4432
HOLMES COUNTY
MONROE TOWNSHIP FEB. 1922

INDEX

Title Page	p. 1
Typical Cross Section	p. 2
Plans and Profile	p. 3-7
Cross Sections	p. 8-15
Summary Sheet	p. 16

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: W. C. Purdy
Date, 2-20-22 Resident Engineer

Approved: William G. Smith
Date, 2-28-22 Division Engineer

Approved: E. Blossert
Date, 3/18/22 State Highway Engineer

Approved: Leon C. Herick
Date, 3/29/22 Director of Highways and Public Works.

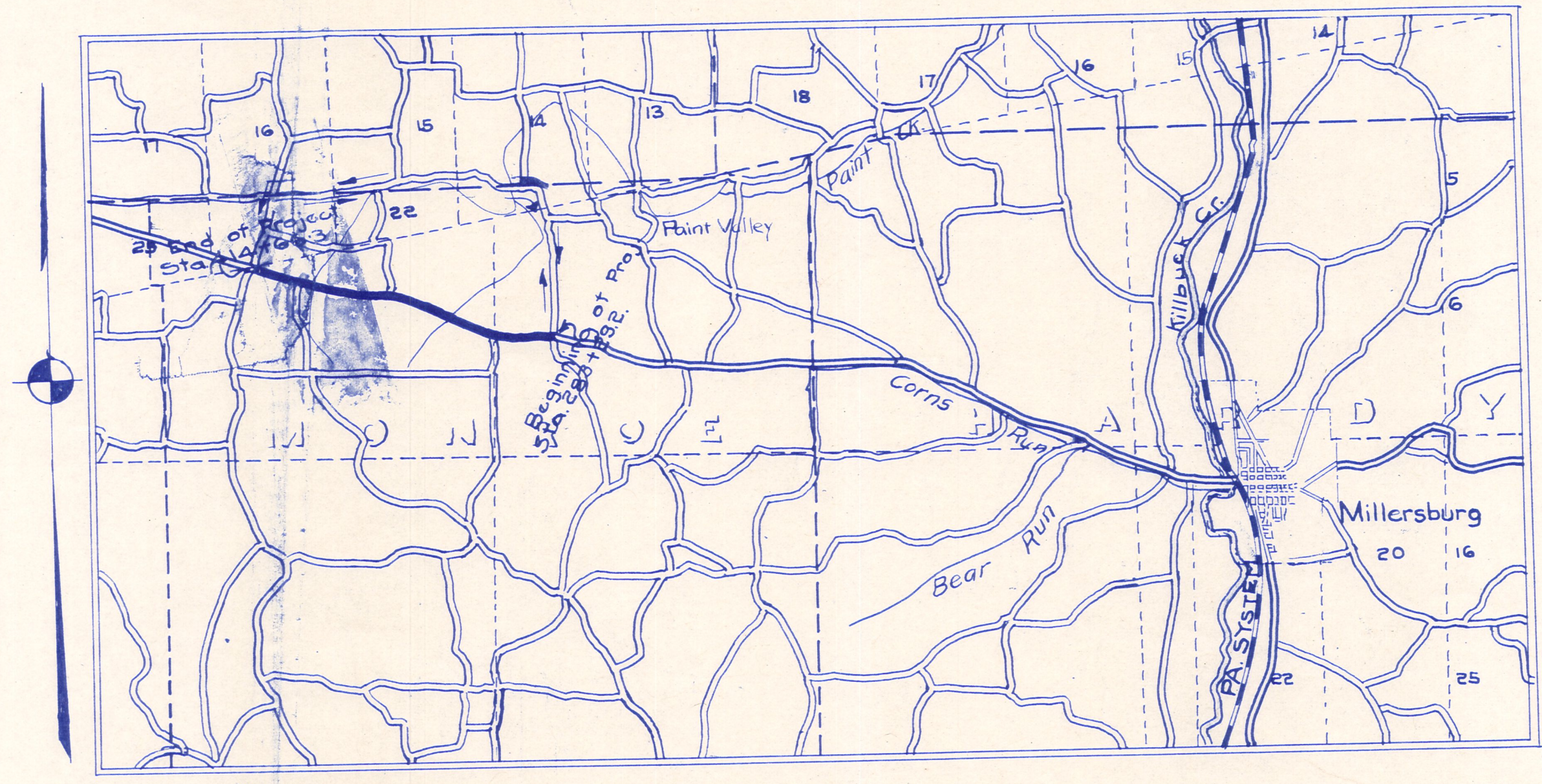
Recommended for Approval: _____
Date, _____ District Engineer
Bureau of Public Roads

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

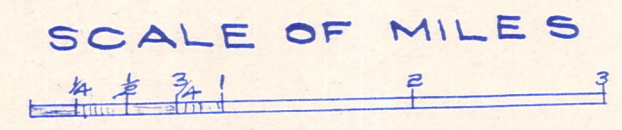
Approved: _____
Date, _____ Chief of Bureau

CONVENTIONAL SIGNS

- State line _____
- County line _____
- Township line _____
- Section line _____
- Property line not fenced _____
- Center line _____
- City or village line _____
- Fence x x x x x x x x x x
- Telephone T T T T T T T T T T T T T T T T
- Steam railroad - - - - -



LOCATION PLAN



PORTION TO BE IMPROVED

DETOURS SHOWN THUS

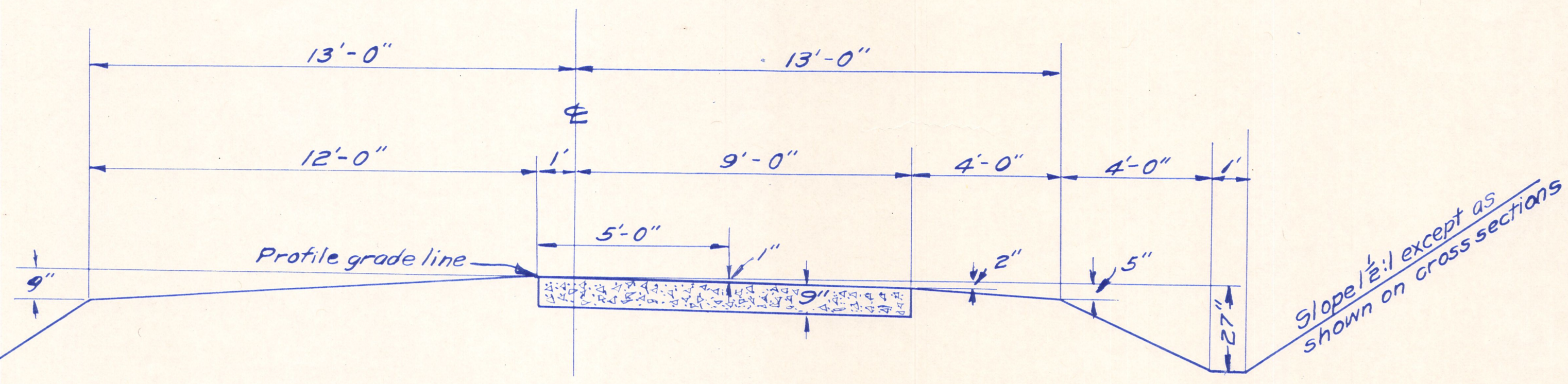
SCALES

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

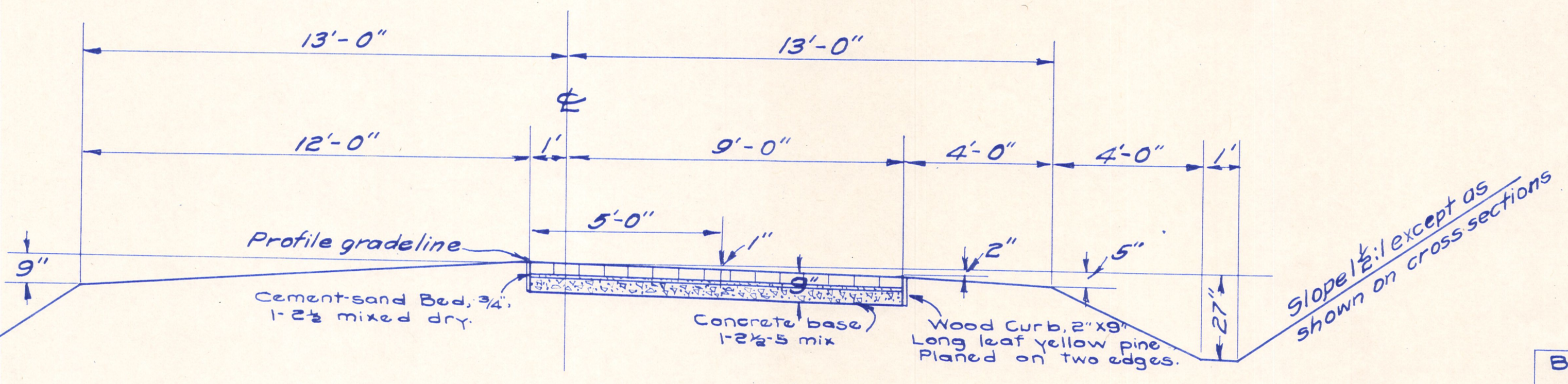
We, the Commissioners of Holmes County hereby approve these plans and certify that the right-of-way 60 feet wide is available for the construction, maintenance and repair of the highway.

D. J. Miller
F. A. Snyder
W. H. Ullman

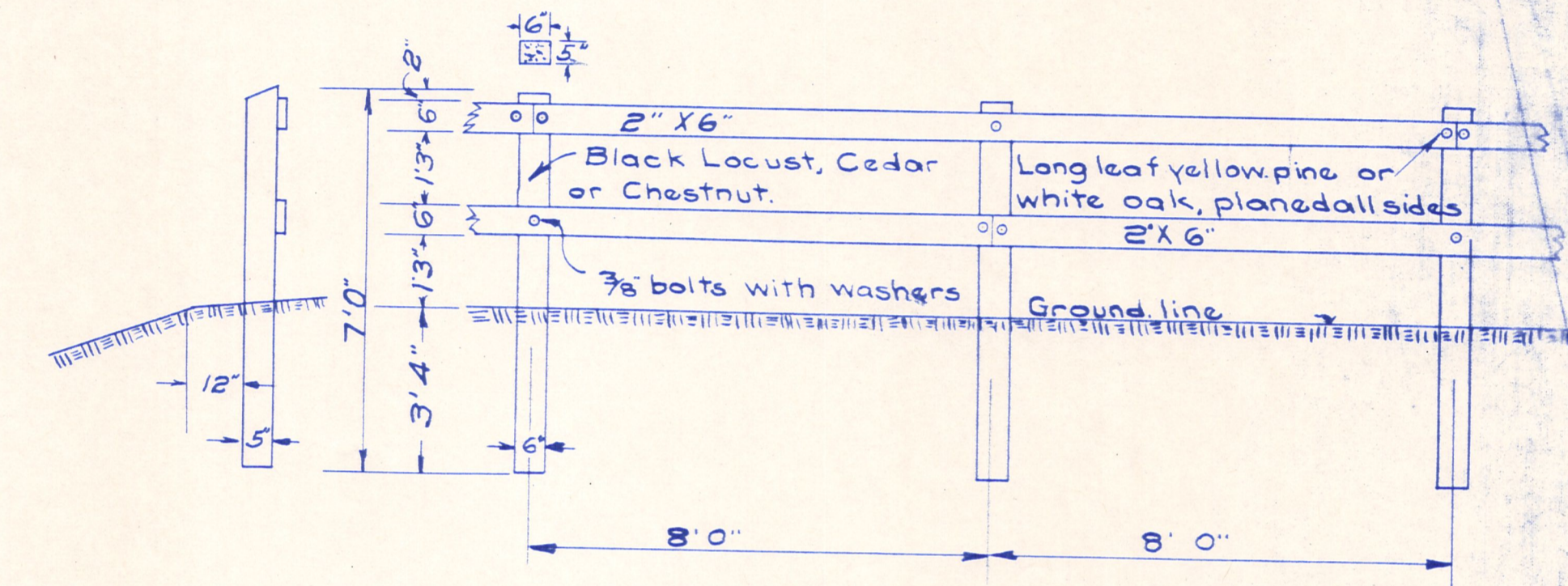
Date, 2-20-22 County Commissioners



TYPICAL CROSS SECTION
TYPE "A" PLAIN CONCRETE



TYPICAL CROSS SECTION
TYPE "B" SEMI-MONOLITHIC BRICK



TYPICAL SECTION
TYPE "E" GUARD RAIL

BILL OF MATERIALS FOR TWO PANELS

2	Wood Posts 2" x 6" x 7"	
2	Wood Rails 2" x 6" x 16"	
6	Carriage Bolts 3/8" x 8"	
6	Washers 7/16"	
0.7lb	Spikes	5"

Note: All surfaces in contact to painted before assembling, and all exposed surfaces to have two coats of white lead and linseed oil paint.
Posts to be set vertical, in line parallel to grade line.
Posts to be cut at top as shown on plan.
Rails to be secured to posts as shown, without splitting.

Note: In order to secure proper alignment and grade, bolt holes shall be bored and the top of posts trimmed after the posts are set and the rails nailed to them.
Note: Paint coat of Carbolineum or Carbosota, one foot below and eight inches above groundline.

Note: Details of pavement will be completed in accordance with specific instructions for the type determined upon for the specific project.

Note: Pavement on all curves will be super elevated.
For elevation see tables on alignment sheets.

Note: Special notes regarding pavement and foundation will be shown on this sheet.

Note: For Type "B" pavement Standard Wire cut lug Brick to be used.
No hillside brick required.

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

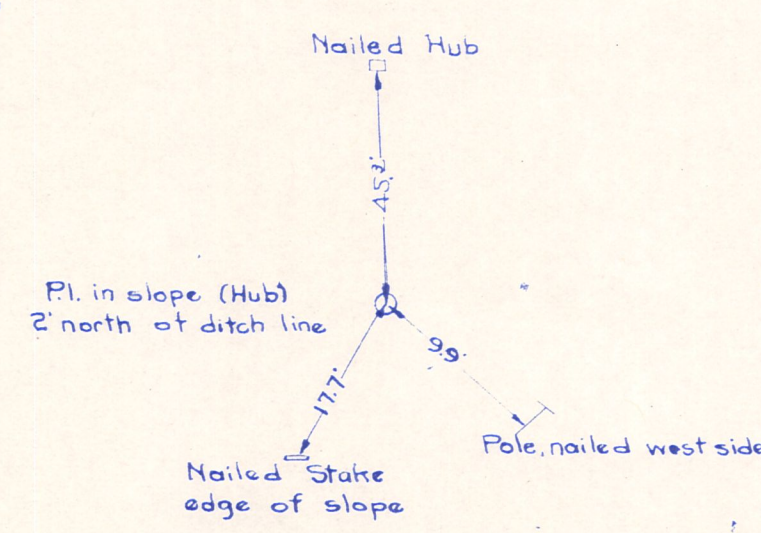
ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		1922

I.C.H. No 145 SEC. I
HOLMES COUNTY

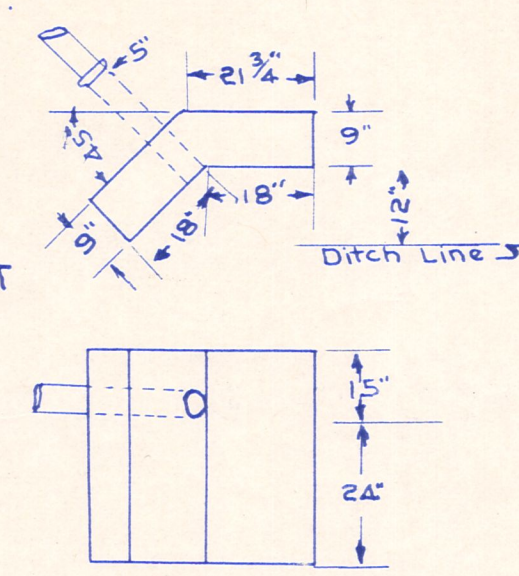
Sta. 283+295 End Sec. I
Sta. 283+55
No Work Required
ROAD No 311

$\Delta = 9^\circ 50' L$
 $D = 1'$
 $T = 492.9$
 $L = 983.3$
 $Ex = 21.2$



Remove 20' of 4" drain tile and lay 4" 15' pipe and construct headwall as shown. 40 cu yd. 1-2-4 concrete required.

PLAN OF UNDERDRAIN OUTLET HEADWALL
Sta. 292+84
1 Headwall requires 0.30 cu yd concrete
1-2-4 concrete



Sta. 305+02.8
4 1/4" Concrete Box
No Work Required

Sta. 309+77.8
Std. 15" Side Road Cully
No Work Required
Dallas Steel

Left Shoulder	Edge Pav.	Station	Grade	Right Edge Pav.
1064.26	283+295	1064.26	1064.09	
1064.79	+50	1064.79	1064.69	
1065.38	+75	1065.38	1065.36	
1065.49	+79.5	1065.49	1065.49	
1066.00	284+00	1066.00	1066.07	
1066.68	+25	1066.68	1066.83	
1066.80	+29.5	1066.80	1066.97	
1067.35	+50	1067.35	1067.52	
1068.07	+75	1068.07	1068.24	
1068.88	285+00	1068.88	1069.05	
1069.78	+25	1069.78	1069.93	
1070.78	+50	1070.78	1070.95	
1071.87	+75	1071.87	1072.04	
1073.05	286+00	1073.05	1073.22	
1074.32	+25	1074.32	1074.49	
1075.68	+50	1075.68	1075.85	
1077.13	+75	1077.13	1077.30	
1078.68	287+00	1078.68	1078.85	
1080.32	+25	1080.32	1080.49	
1082.05	+50	1082.05	1082.22	
1083.82	+75	1083.82	1083.99	
1085.60	288+00	1085.60	1085.77	
1087.37	+25	1087.37	1087.54	
1089.15	+50	1089.15	1089.32	

Max. Elev. 0.17'

Left Shoulder	Edge Pav.	Station	Grade	Right Edge Pav.
1090.92	288+75	1090.92	1091.09	
1092.70	289+00	1092.70	1092.87	
1094.47	+25	1094.47	1094.64	
1096.25	+50	1096.25	1096.42	
1098.02	+75	1098.02	1098.19	
1099.80	290+00	1099.80	1099.97	
1101.57	+25	1101.57	1101.74	
1103.35	+50	1103.35	1103.52	
1105.12	+75	1105.12	1105.29	
1106.90	291+00	1106.90	1107.07	
1108.67	+25	1108.67	1108.84	
1110.45	+50	1110.45	1110.62	
1112.22	+75	1112.22	1112.39	
1114.00	292+00	1114.00	1114.17	
1115.77	+25	1115.77	1115.94	
1117.55	+50	1117.55	1117.72	
1119.32	+75	1119.32	1119.49	
1121.10	+80.8	1121.10	1121.27	
1122.87	293+00	1122.87	1123.04	
1124.65	+25	1124.65	1124.82	
1126.42	+50	1126.42	1126.59	
1128.20	+75	1128.20	1128.37	

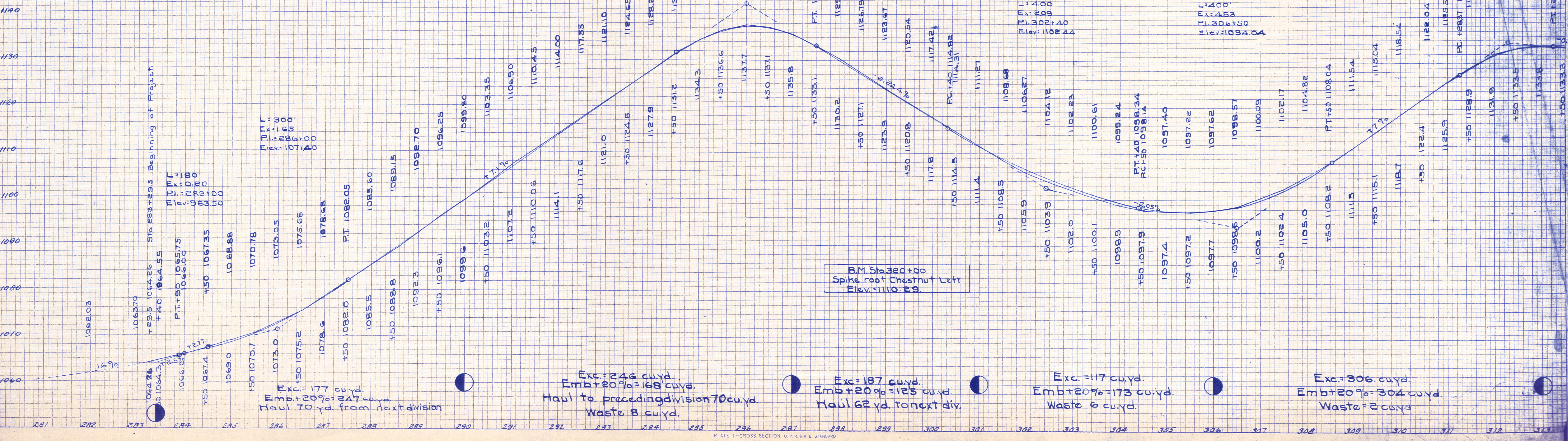
B.M. Sta. 289+75
2 spikes Hickory Left
Elev. 1098.89

Left Shoulder	Edge Pav.	Station	Grade	Right Edge Pav.
1096.82	305+26.5	1097.57	1097.57	1097.40
1097.67	+25	1098.02	1097.85	
1098.42	+46.5	1098.42	1098.31	
1098.60	+50	1098.60	1098.40	
1099.61	+75	1099.61	1099.40	
1100.62	+96.5	1100.62	1099.99	1099.80
1100.74	307+00	1100.74	1099.99	1099.99
1100.71	+25	1101.06	1100.89	
1102.82	+50	1102.17	1102.00	
1104.08	+75	1103.43	1103.26	
1105.47	308+00	1104.82	1104.65	
1107.01	+25	1106.36	1106.19	
1108.69	+50	1108.04	1107.87	
1110.44	+75	1109.79	1109.62	
1112.19	309+00	1111.54	1111.37	
1112.88	+25	1112.23	1112.06	
1113.73	+50	1113.28	1113.12	
1115.19	+75	1115.04	1114.87	
1116.68	+99.8	1115.73	1115.56	
1118.23	+75	1116.79	1116.62	
1119.94	310+00	1118.34	1118.17	
1121.63	+99.8	1119.23	1119.06	

$\Delta = 9^\circ 24' R$
 $D = 3'$
 $T = 157.8$
 $Ex = 6.4$
 $L = 313.3$

$\Delta = 18^\circ 43'$
 $D = 7'$
 $T = 134.9$
 $Ex = 11.0$
 $L = 267.4$

B.M. 313+20
Elm Left
Elev. 1134.33



Exc. = 177 cu yd.
Emb + 20% = 247 cu yd.
Haul 70 yd. from next division

Exc. = 246 cu yd.
Emb + 20% = 168 cu yd.
Haul to preceding division 70 cu yd.
Waste 8 cu yd.

Exc. = 187 cu yd.
Emb + 20% = 125 cu yd.
Haul 62 yd. to next div.

Exc. = 117 cu yd.
Emb + 20% = 173 cu yd.
Waste 6 cu yd.

Exc. = 306 cu yd.
Emb + 20% = 304 cu yd.
Waste 2 cu yd.

FINAL SURVEY NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK AREAS CHECKED

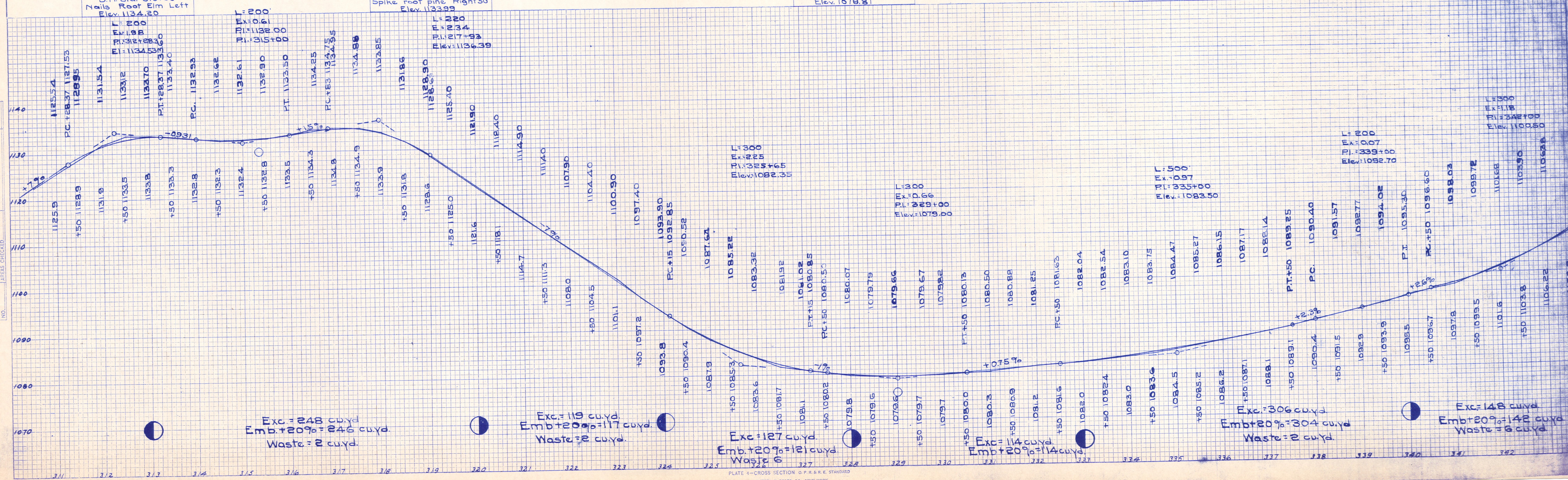
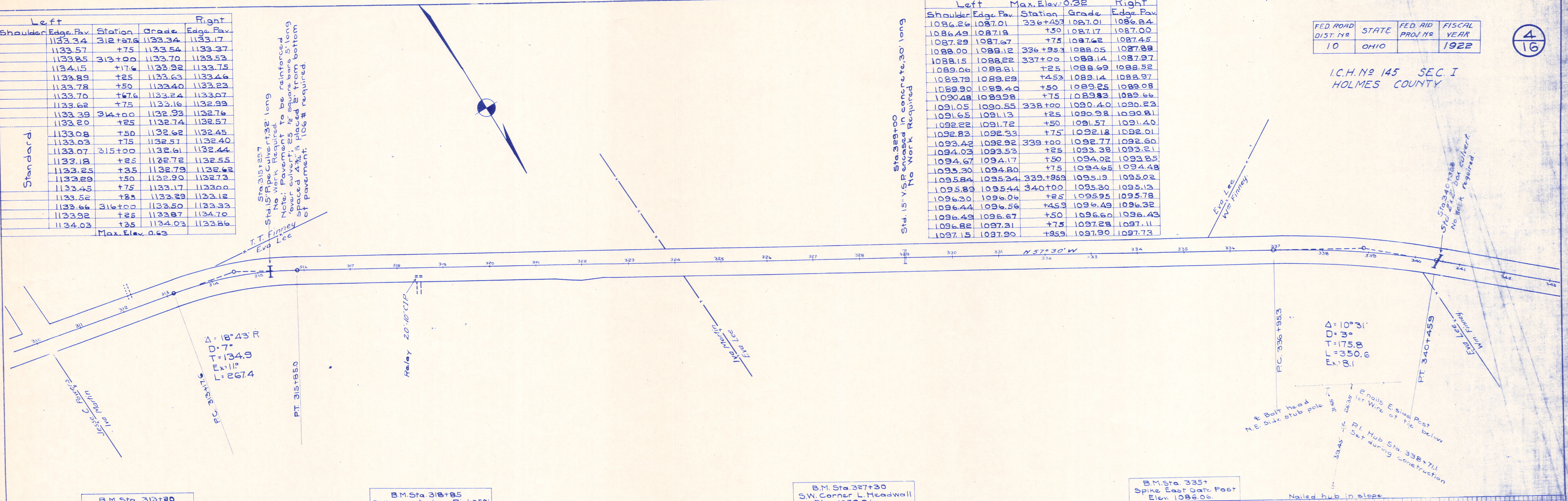
Left				Right	
Shoulder	Edge Pav.	Station	Grade	Edge Pav.	
	1133.34	312+67.6	1133.34	1133.17	
	1133.57	+75	1133.54	1133.37	
	1133.85	313+00	1133.70	1133.53	
	1134.15	+17.6	1133.92	1133.75	
	1133.89	+25	1133.63	1133.46	
	1133.78	+50	1133.40	1133.23	
	1133.70	+67.6	1133.24	1133.07	
	1133.62	+75	1133.16	1132.99	
	1133.39	314+00	1132.93	1132.76	
	1133.20	+25	1132.74	1132.57	
	1133.08	+50	1132.62	1132.45	
	1133.03	+75	1132.57	1132.40	
	1133.07	315+00	1132.61	1132.44	
	1133.18	+25	1132.72	1132.55	
	1133.25	+35	1132.79	1132.62	
	1133.29	+50	1132.90	1132.73	
	1133.45	+75	1133.17	1133.00	
	1133.52	+85	1133.29	1133.12	
	1133.66	316+00	1133.50	1133.33	
	1133.92	+25	1133.67	1134.70	
	1134.03	+35	1134.03	1133.86	
		Max. Elev. 0.63			

Left		Max. Elev. 0.32		Right	
Shoulder	Edge Pav.	Station	Grade	Edge Pav.	
1086.26	1087.01	336+453	1087.01	1086.84	
1086.49	1087.18	+75	1087.17	1087.00	
1087.29	1087.67	+75	1087.62	1087.45	
1088.00	1088.12	336+953	1088.05	1087.88	
1088.15	1088.22	337+00	1088.14	1087.97	
1089.06	1088.81	+25	1088.69	1088.52	
1089.79	1089.29	+453	1089.14	1088.97	
1089.90	1089.40	+50	1089.25	1089.08	
1090.48	1089.98	+75	1089.83	1089.66	
1091.05	1090.55	338+00	1090.40	1090.23	
1091.65	1091.13	+25	1090.98	1090.81	
1092.22	1091.72	+50	1091.57	1091.40	
1092.83	1092.33	+75	1092.18	1092.01	
1093.42	1092.92	339+00	1092.77	1092.60	
1094.03	1093.53	+25	1093.38	1093.21	
1094.67	1094.17	+50	1094.02	1093.85	
1095.30	1094.80	+75	1094.65	1094.48	
1095.84	1095.34	339+953	1095.19	1095.02	
1095.89	1095.44	340+00	1095.30	1095.13	
1096.30	1096.06	+25	1095.95	1095.78	
1096.44	1096.56	+453	1096.49	1096.32	
1096.49	1096.67	+50	1096.60	1096.43	
1096.82	1097.31	+75	1097.28	1097.11	
1097.15	1097.90	+953	1097.90	1097.73	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		1922

4
16

I.C.H. No 145 SEC. I
HOLMES COUNTY



Exc. = 248 cu yd
Emb + 20% = 246 cu yd
Waste = 2 cu yd

Exc. = 119 cu yd
Emb + 20% = 117 cu yd
Waste = 2 cu yd

Exc. = 127 cu yd
Emb + 20% = 121 cu yd
Waste = 6

Exc. = 114 cu yd
Emb + 20% = 114 cu yd

Exc. = 306 cu yd
Emb + 20% = 304 cu yd
Waste = 2 cu yd

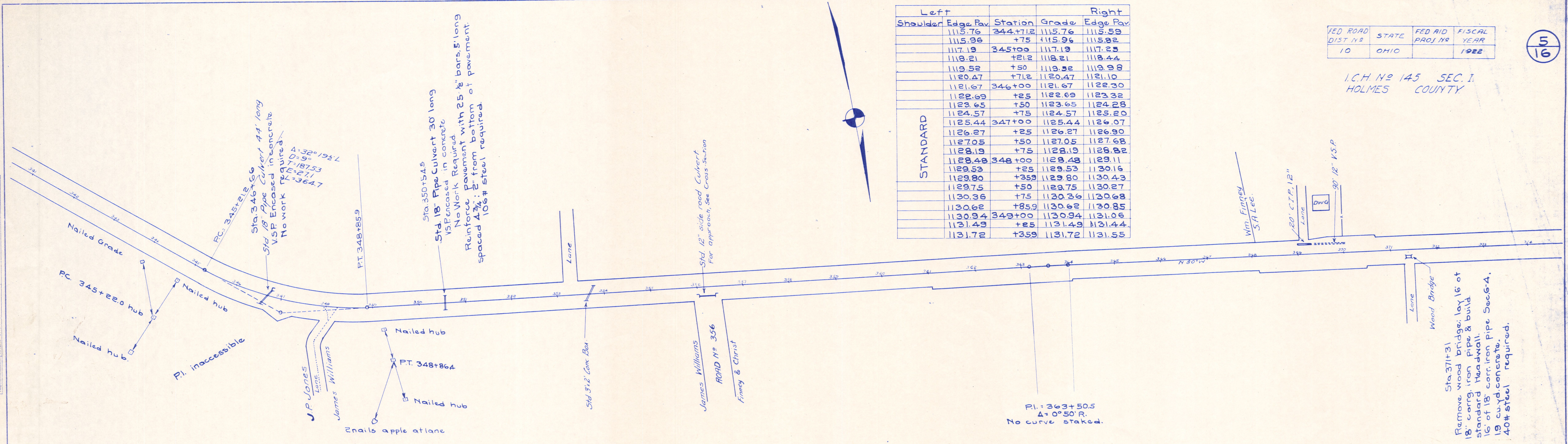
Exc. = 148 cu yd
Emb + 20% = 142 cu yd
Waste = 6 cu yd

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR
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5
16

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HOLMES COUNTY

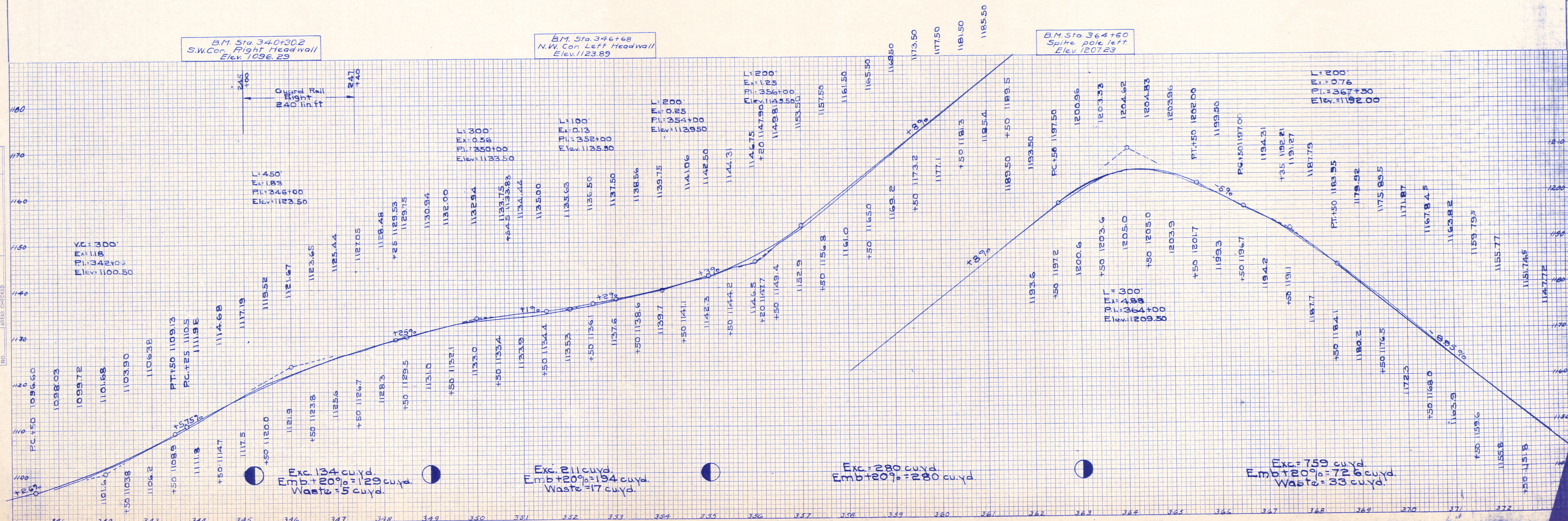
STANDARD	Left		Right	
	Shoulder	Edge Pav.	Station	Grade
	1115.76	344+71.2	1115.76	1115.59
	1115.96	+75	1115.96	1115.82
	1117.19	345+00	1117.19	1117.25
	1118.21	+21.2	1118.21	1118.44
	1119.52	+50	1119.52	1119.98
	1120.47	+71.2	1120.47	1121.10
	1121.67	346+00	1121.67	1122.30
	1122.69	+25	1122.69	1123.32
	1123.65	+50	1123.65	1124.28
	1124.57	+75	1124.57	1125.20
	1125.44	347+00	1125.44	1126.07
	1126.27	+25	1126.27	1126.90
	1127.05	+50	1127.05	1127.68
	1128.19	+75	1128.19	1128.82
	1128.48	348+00	1128.48	1129.11
	1129.59	+25	1129.59	1130.16
	1129.80	+359	1129.80	1130.43
	1129.75	+50	1129.75	1130.27
	1130.36	+75	1130.36	1130.68
	1130.62	+859	1130.62	1130.85
	1130.94	349+00	1130.94	1131.06
	1131.49	+25	1131.49	1131.44
	1131.72	+359	1131.72	1131.55



B.M. Sta. 340+30.2
S.W. Cor. Right Headwall
Elev. 1096.29

B.M. Sta. 346+68
N.W. Cor. Left Headwall
Elev. 1123.89

B.M. Sta. 364+60
Spite pole left
Elev. 1207.23



FINAL SURVEY PLOTTED TEMPLATE NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY PLOTTED TEMPLATE NOTE BOOK AREAS CHECKED

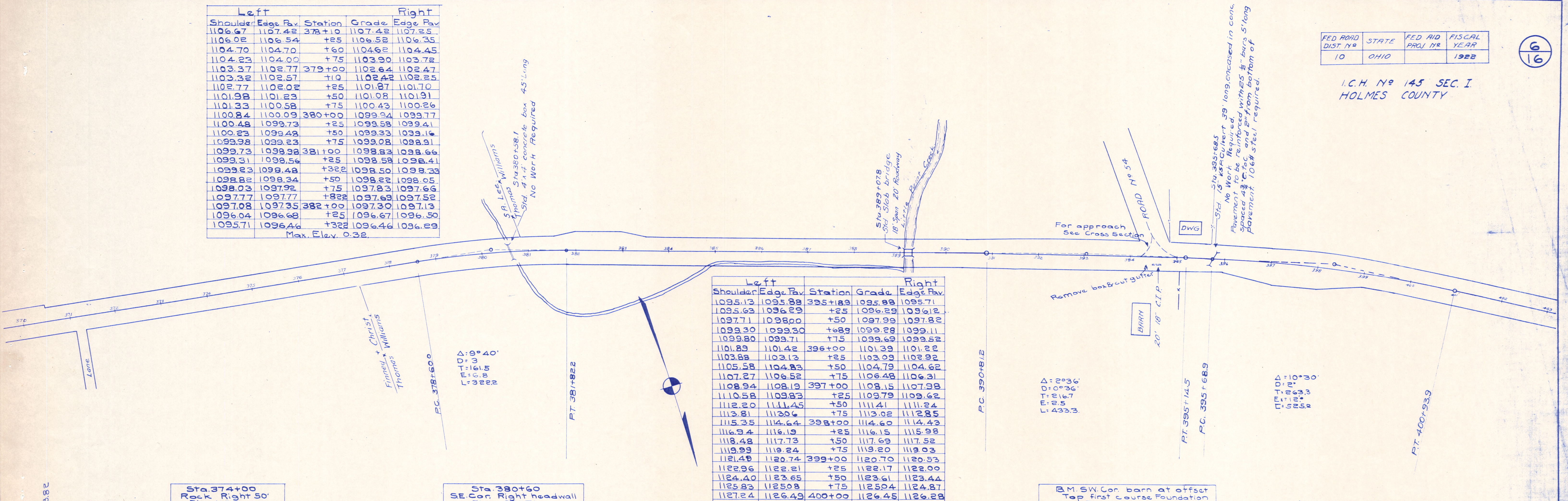
Left		Station	Grade	Right	
Shoulder	Edge Pav.			Edge Pav.	
1106.67	1107.42	378+10	1107.42	1107.25	
1106.02	1106.54	+25	1106.52	1106.35	
1104.70	1104.70	+60	1104.62	1104.45	
1104.23	1104.00	+75	1103.90	1103.72	
1103.37	1102.77	379+00	1102.64	1102.47	
1103.32	1102.57	+10	1102.42	1102.25	
1102.77	1102.02	+25	1101.87	1101.70	
1101.98	1101.23	+50	1101.08	1101.91	
1101.33	1100.58	+75	1100.43	1100.26	
1100.84	1100.09	380+00	1099.24	1099.77	
1100.48	1099.73	+25	1099.58	1099.41	
1100.23	1099.48	+50	1099.33	1099.16	
1099.98	1099.23	+75	1099.08	1098.91	
1099.73	1098.98	381+00	1098.83	1098.66	
1099.31	1098.56	+25	1098.58	1098.41	
1099.23	1098.48	+32.2	1098.50	1098.33	
1098.82	1098.34	+50	1098.22	1098.05	
1098.03	1097.92	+75	1097.83	1097.66	
1097.77	1097.77	+82.2	1097.69	1097.52	
1097.08	1097.35	382+00	1097.30	1097.13	
1096.04	1096.68	+25	1096.67	1096.50	
1095.71	1096.46	+32.2	1096.46	1096.29	

Max. Elev. 9.32.

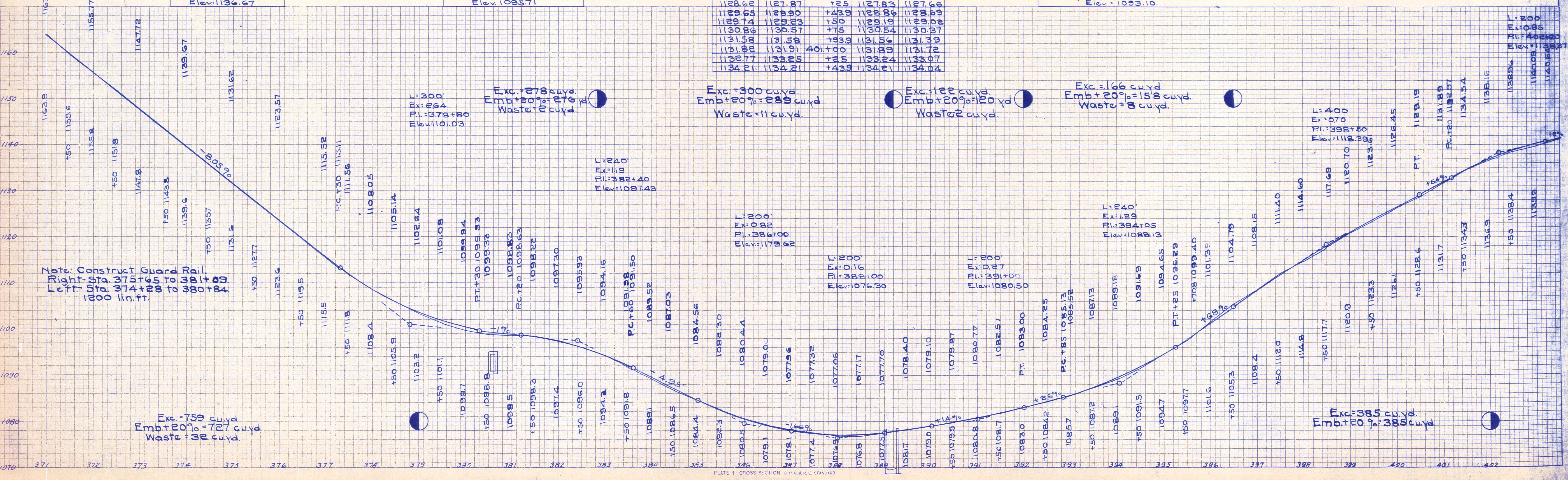
FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR
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16

I.C.H. No 145 SEC. I
HOLMES COUNTY



Left		Station	Grade	Right	
Shoulder	Edge Pav.			Edge Pav.	
1095.13	1095.88	395+18.9	1095.88	1095.71	
1095.63	1096.29	+25	1096.29	1096.12	
1097.71	1098.00	+50	1097.99	1097.82	
1099.30	1099.30	+68.9	1099.28	1099.11	
1099.80	1099.71	+75	1099.69	1099.52	
1101.89	1101.42	396+00	1101.39	1101.22	
1103.88	1103.13	+25	1103.09	1102.92	
1105.58	1104.83	+50	1104.79	1104.62	
1107.27	1106.52	+75	1106.48	1106.31	
1108.94	1108.19	397+00	1108.15	1107.98	
1110.58	1109.83	+25	1109.79	1109.62	
1112.20	1111.45	+50	1111.41	1111.24	
1113.81	1113.06	+75	1113.02	1112.85	
1115.35	1114.64	398+00	1114.60	1114.43	
1116.94	1116.19	+25	1116.15	1115.98	
1118.48	1117.73	+50	1117.69	1117.52	
1119.99	1119.24	+75	1119.20	1119.03	
1121.49	1120.74	399+00	1120.70	1120.53	
1122.96	1122.21	+25	1122.17	1122.00	
1124.40	1123.65	+50	1123.61	1123.44	
1125.83	1125.08	+75	1125.04	1124.87	
1127.24	1126.49	400+00	1126.45	1126.28	
1128.62	1127.87	+25	1127.83	1127.66	
1129.65	1128.90	+43.9	1128.86	1128.69	
1129.74	1129.23	+50	1129.19	1129.02	
1130.86	1130.57	+75	1130.54	1130.37	
1131.58	1131.58	+83.9	1131.56	1131.39	
1131.82	1131.91	401+00	1131.89	1131.72	
1132.77	1133.25	+25	1133.24	1133.07	
1134.21	1134.21	+43.9	1134.21	1134.04	

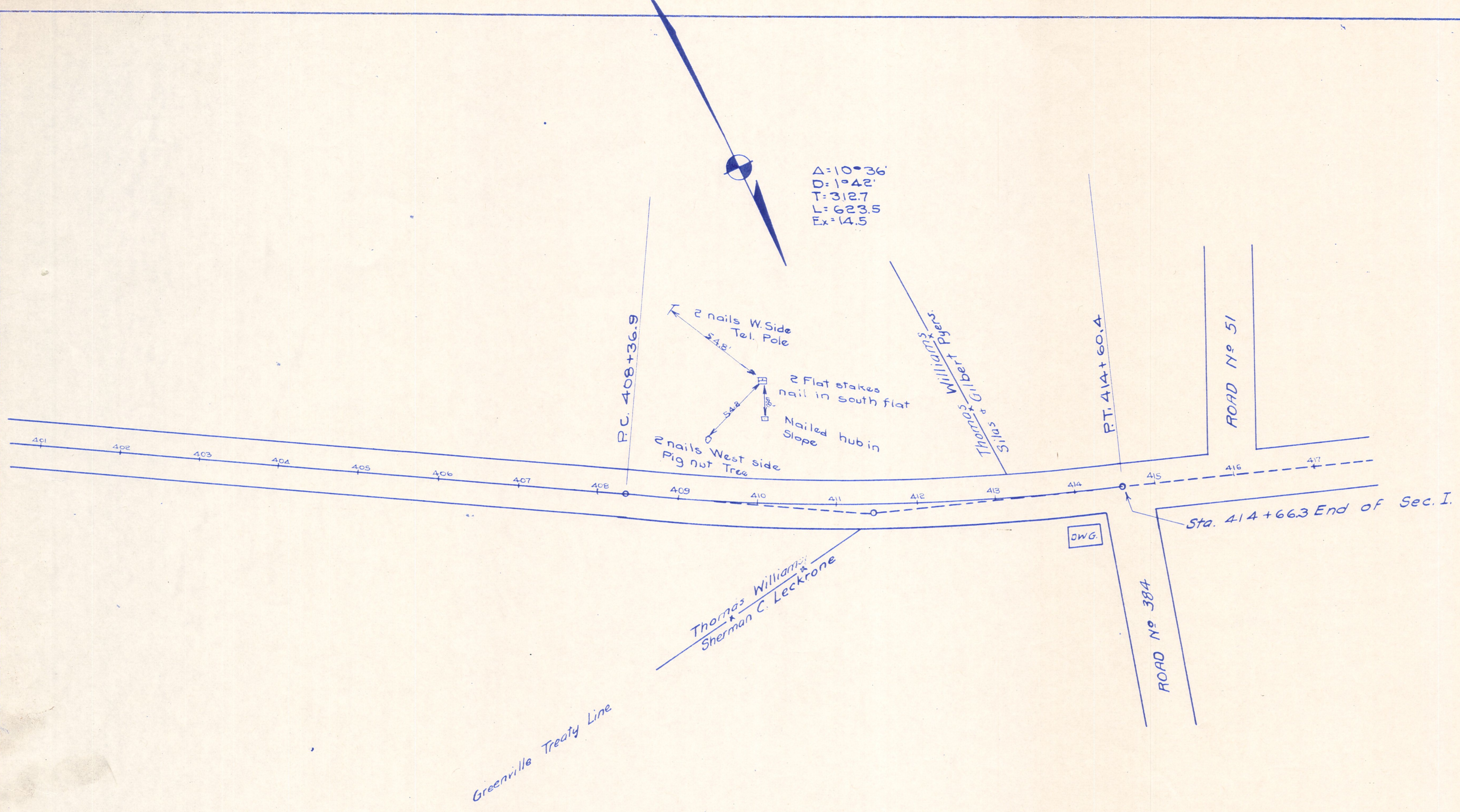


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR
10	OHIO		1922

7
16

I.C.H. NO 145 SEC. I
HOLMES COUNTY

A: 10° 36'
D: 1° 42'
T: 312.7
L: 623.5
Ex: 14.5



	Left		Right		
	Shoulder	Edge Pav.	Station	Grade	Edge Pav.
		1152.33	407+86.9	1152.33	1152.16
		1152.31	408+00	1153.05	1152.83
		1154.47	408+25	1154.47	1154.43
		1155.19	+36.9	1155.19	1155.20
		1156.03	+50	1156.03	1156.08
		1157.72	+75	1157.72	1157.86
		1159.47	409+00	1159.47	1159.65
		1161.22	+25	1161.22	1161.40
		1162.97	+50	1162.97	1163.15
		1164.72	+75	1164.72	1164.90
		1166.47	410+00	1166.47	1166.65
		1168.22	+25	1168.22	1168.40
		1169.97	+50	1169.97	1170.15
		1171.71	+75	1171.71	1171.89
		1173.42	411+00	1173.42	1173.60
		1174.07	+25	1174.07	1174.25
		1175.65	+50	1175.65	1175.83
		1177.17	+75	1177.17	1177.35
		1179.63	412+00	1179.63	1179.81
		1181.77	+25	1181.77	1181.91
		1182.35	+50	1182.35	1182.53
		1183.62	+75	1183.62	1183.80
		1184.82	413+00	1184.82	1185.00
		1185.97	+25	1185.97	1186.15
		1187.05	+50	1187.05	1187.23
		1188.07	+75	1188.07	1188.25
		1189.03	414+00	1189.03	1189.21
		1189.41	+10.4	1189.41	1189.59
		1189.92	+25	1189.92	1190.05
		1190.75	+50	1190.75	1190.79
		1191.26	+66.3	1191.26	1191.24
				Max. Elev. 0.18	

