FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
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S.H. 87 Sec J-1-S
PORTAGE COUNTY

1/36

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
AKRON-CANFIELD ROAD
S.H. (I.C.H.) 87-SEC. J-1-S DET. NO.
PORTAGE COUNTY
DEERFIELD-ATWATER TWPS.

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 not require the closing to traffic of the highway.

Approved: H. L. Hubbell
Date, 1/4/32 Resident District Deputy Director

Approved: O. W. Zell
Date, 1/6/32 Resident Division Deputy Director

Approved: Elmer Hilty
Date, 1/23/32 Chief Engineer Bureau of Construction

Approved: G. W. Snyder
Date, 1/16/32 Chief Engineer Bureau of Maintenance

Approved:
Date, Chief Engineer Bureau of Bridges

Approved: H. P. Chapman
Date, 1-23-32 Chief Engineer and Assistant Director

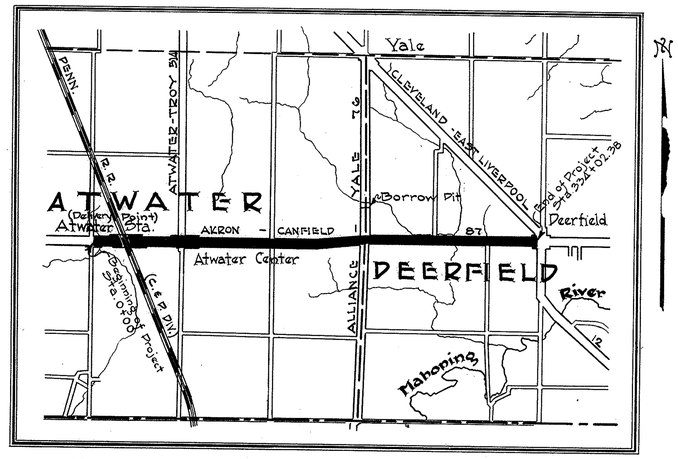
Approved: O. W. Merrell
Date, 1-23-32 Director of Highways

CONSTRUCTION BUREAU
OCT 4 1955
GROUND PHOTOLAB

See also 4/4/32

CONVENTIONAL SIGNS

- State Line
- County Line
- Township Line
- Section Line
- Property Line not Fenced
- Center Line (44 45 46)
- City or Village Line
- Fence
- Telegraph or Telephone
- Steam Railroad
- Electric Line
- Guard Rail
- Drain Pipe (New)
- Drain Pipe (Old)



LOCATION MAP
SCALE 1" = 1 MILE

PORTION TO BE IMPROVED
IMPROVED ROADS
UNIMPROVED ROADS

We, the Commissioners of Portage County do 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.

Date: _____ _____ County Commissioners

SCALES

Plan	1" = 100'
Profile (Vertical)	1" = 10'
Profile (Horizontal)	1" = 100'
X-Section (Vertical)	1" = 5'
X-Section (Horiz.)	1" = 5'

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PROJECT TRACINGS

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STRUCTURAL STDS. No. 305	

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PORTAGE - 87 - J-I-S

1932 Contract No. 5304
Letting Date 2-16-32

L.C.H. 1/23/32

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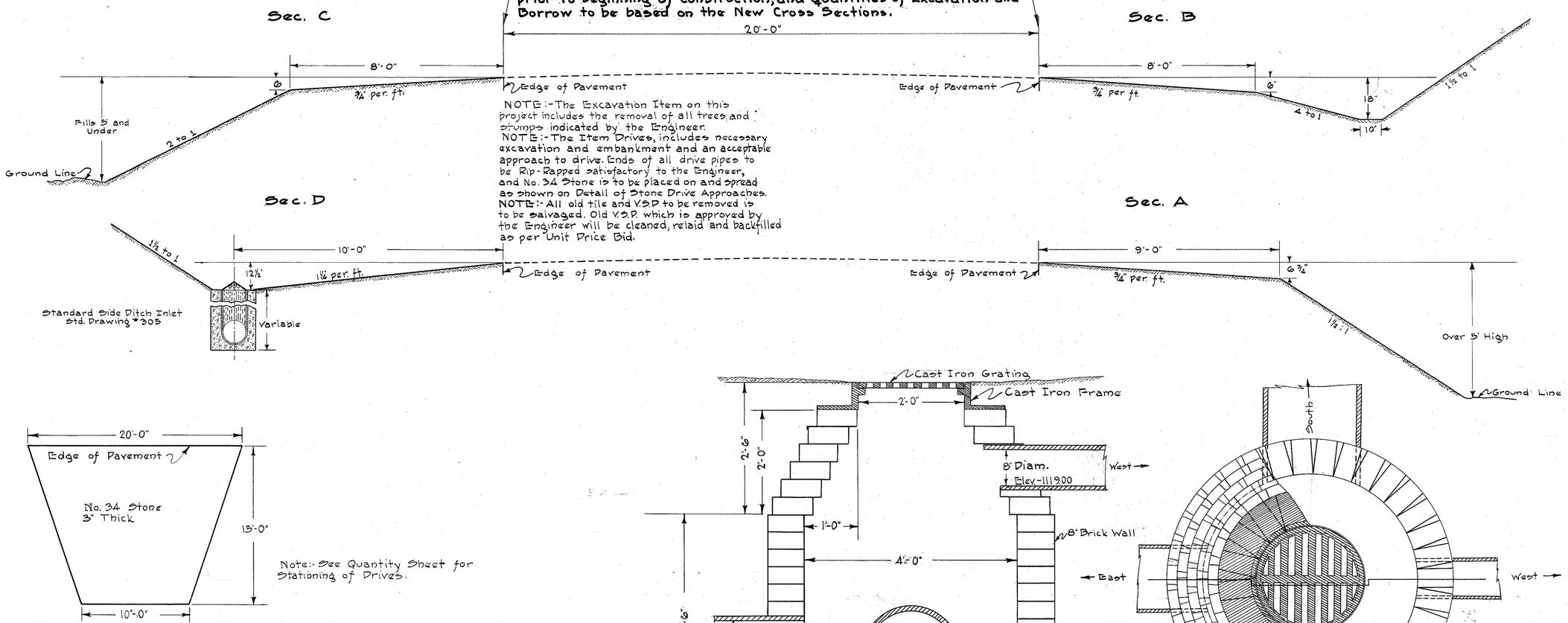
TYPICAL SECTIONS

NOTE Scale 1" = 2'

No Work to be done within these limits. Roadbed was widened and Resurfaced under previous Contract. Project to be re-cross-sectioned prior to beginning of Construction, and quantities of Excavation and Borrow to be based on the New Cross Sections.



NOTE:- The Excavation Item on this project includes the removal of all trees and stumps indicated by the Engineer.

NOTE:- The Item Drives, includes necessary excavation and embankment and an acceptable approach to drive. Ends of all drive pipes to be Rip-Rapped satisfactory to the Engineer, and No. 34 Stone is to be placed on and spread as shown on Detail of Stone Drive Approaches.

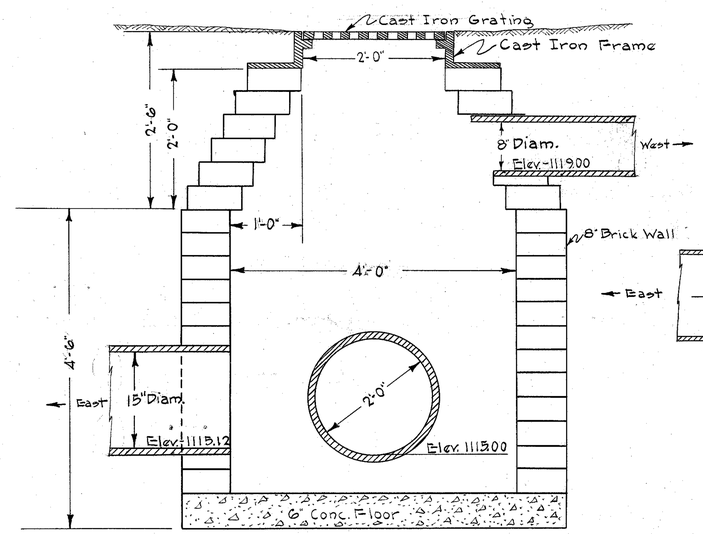
NOTE:- All old tile and V.S.P to be removed is to be salvaged. Old V.S.P. which is approved by the Engineer will be cleaned, relaid and backfilled as per Unit Price Bid.

Note:- See Quantity Sheet for Stationing of Drives.

Detail of Stone Drive Approaches

Scale 1" = 5'

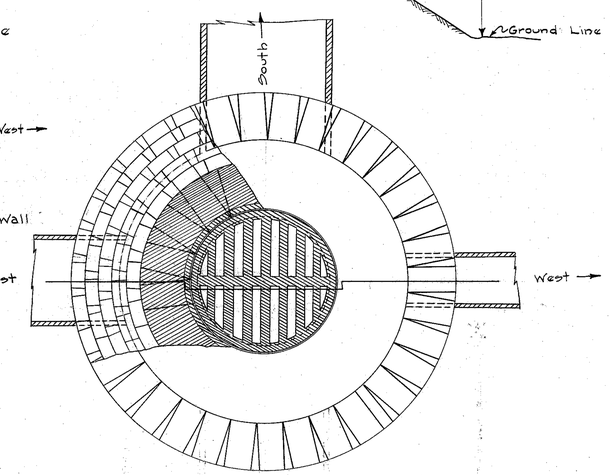
2.1 Cu. Yds. of Stone in One Approach



CROSS SECTION

Detail of Special Catch Basin South Side Sta. 13+64

Scale 1" = 1'



PLAN

Catch Basin to be Complete including Conc. Floor (6" Thick) 8" Brick Walls, One Lgth. 20" V.S.P., One Lgth 15" V.S.P., One Lgth. 8" V.S.P., Cast Iron Frame, and Drain Grate.

- Notes -

All borrow for this project to be obtained from Borrow Pit located on State Route 80, 1700 Feet North of Sta. 202+57 of this project. This borrow will be free to the contractor, but must be made to lines and grades established by the Engineer in Charge. Road to borrow pit is improved (Traffic Bound Slag).

Two Lane Traffic is to be maintained at all times on this project.

RLL
3-7-30

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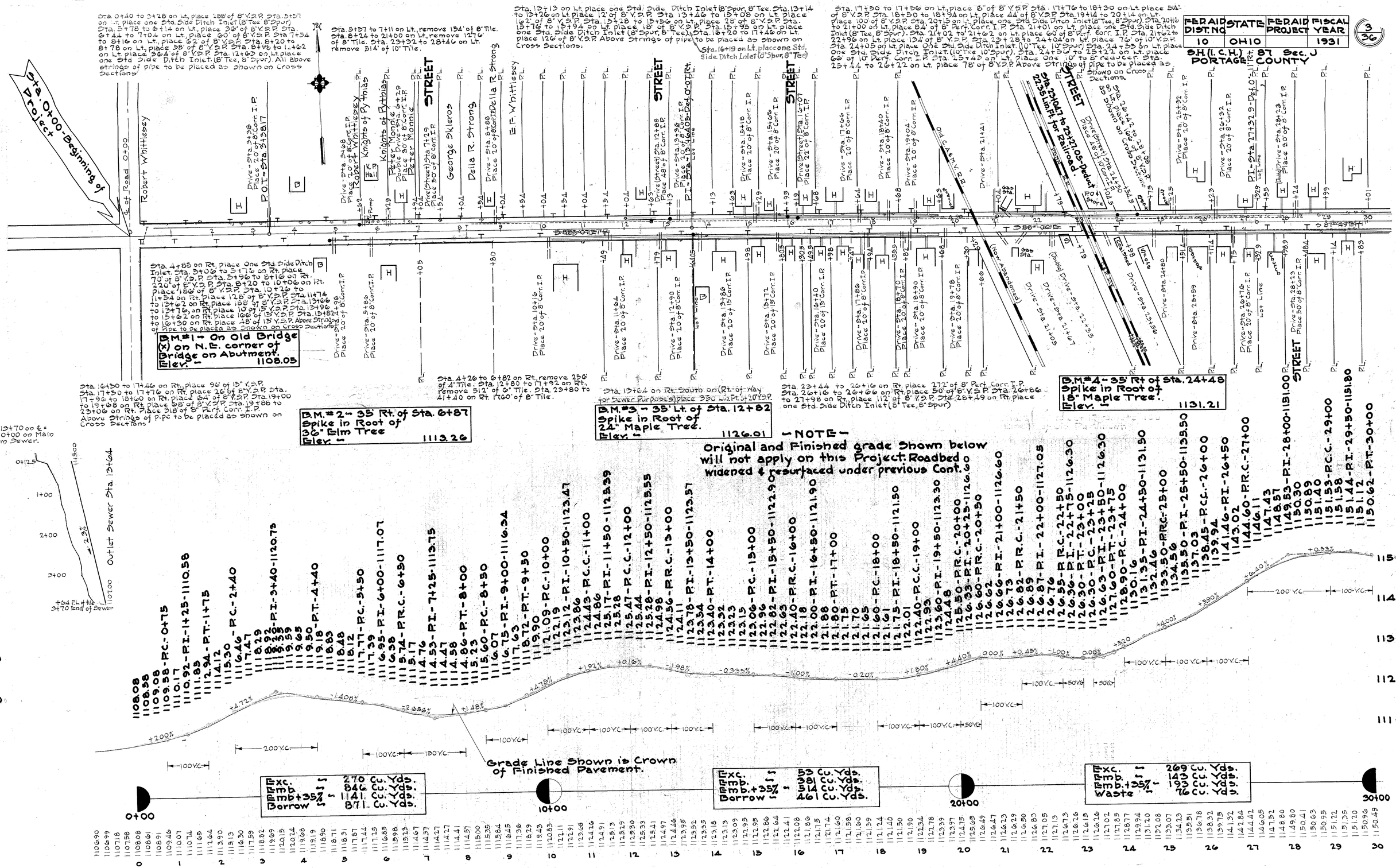

— NOTE —

Original and Finished grade Shown below will not apply on this Project. Roadbed widened & resurfaced under previous Cont.

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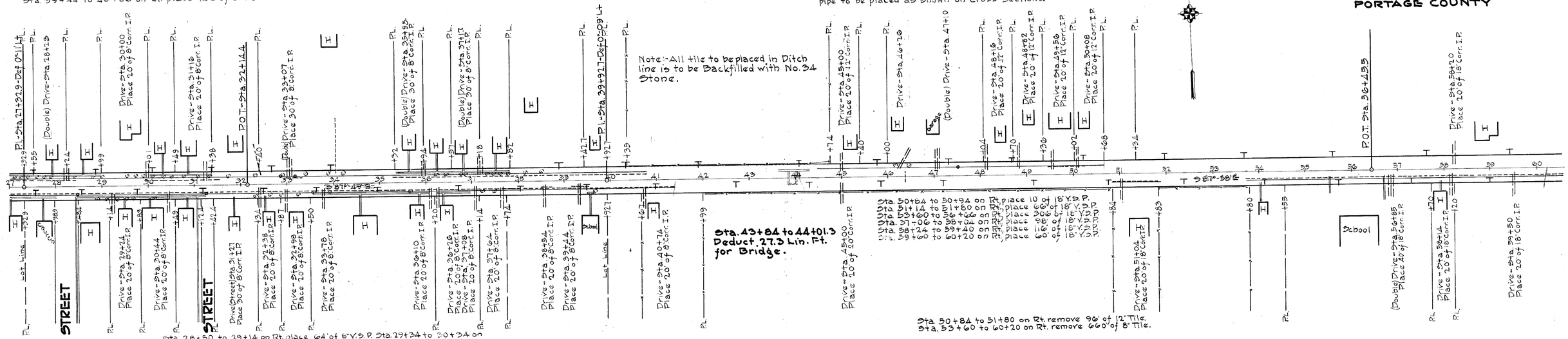
Sta. 28+38 to 29+90 on Lt. place 152' of 8" V.S.P. Sta. 30+10 to 31+06 on Lt. place 96' of 8" V.S.P. Sta. 31+26 to 32+90 on Lt. place 164' of 8" V.S.P. Sta. 32+91 on Lt. place One Std. Side Ditch Inlet. (8' Tee 8' Spur) Sta. 33+22 to 35+80 on Lt. place 258' of 8" V.S.P. Sta. 36+10 to 37+02 on Lt. place 92' of 8" V.S.P. Sta. 37+32 to 39+42 on Lt. place 210' of 8" V.S.P. Sta. 39+43 on Lt. place One Std. Side Ditch Inlet (8' Tee 8' Spur) Sta. 39+44 to 40+86 on Lt. place 142' of 8" V.S.P.

Sta. 29+90 to 31+60 on Lt. remove 170' of 8" Tile.
Sta. 32+92 to 33+32 on Lt. remove 40' of 8" Tile.
Sta. 35+30 to 40+86 on Lt. remove 556' of 10" Tile.
Sta. 49+26 to 50+20 on Lt. remove 74' of 10" Tile.

Sta. 44+40 to 44+90 on Lt. place 50' of 12" V.S.P. Sta. 45+10 to 46+00 on Lt. place 90' of 12" V.S.P. Sta. 46+00 to 47+50 on Lt. place 150' of 12" Perf. Corr. I.P. Sta. 47+51 on Lt. place One Std. Side Ditch Inlet (12' Tee, 12' Spur) Sta. 47+52 to 48+06 on Lt. place 54' of 12" V.S.P. Sta. 48+26 to 48+72 on Lt. place 46' of 12" V.S.P. Sta. 48+92 to 49+46 on Lt. place 54' of 12" V.S.P. Sta. 49+66 to 49+98 on Lt. place 32' of 12" V.S.P. Sta. 50+18 to 50+66 on Lt. place 50' of 12" V.S.P. Above Strings of pipe to be placed as shown on Cross Sections.



Sta. 28+50 to 29+14 on Rt. place 64' of 8" V.S.P. Sta. 29+34 to 30+34 on Rt. place 100' of 8" V.S.P. Sta. 30+54 to 31+12 on Rt. place 58' of 8" V.S.P. Sta. 31+13 on Rt. place one Std. Side Ditch Inlet (8' Tee, 8' Spur) Sta. 31+44 to 32+26 on Rt. place 84' of 8" V.S.P. Sta. 32+46 to 32+86 on Rt. place 40' of 8" V.S.P. Sta. 33+08 to 33+68 on Rt. place 60' of 8" V.S.P. Sta. 33+86 to 36+00 on Rt. place 212' of 8" V.S.P. Sta. 36+20 to 36+26 place 6' of 8" V.S.P. Sta. 36+46 to 36+98 on Rt. place 52' of 8" V.S.P. All above Strings of pipe to be placed as shown on Cross Sections.

Sta. 37+18 to 37+54 on Rt. place 36' of 8" V.S.P. Sta. 37+74 to 38+44 on Rt. place 70' of 8" V.S.P. Sta. 38+64 to 39+34 on Rt. place 70' of 8" V.S.P. Sta. 39+54 to 40+64 on Rt. place 110' of 8" V.S.P. Sta. 40+84 to 41+40 on Rt. place 56' of 8" V.S.P.

Sta. 50+84 to 51+80 on Rt. remove 96' of 12" Tile.
Sta. 53+60 to 60+20 on Rt. remove 660' of 8" Tile.

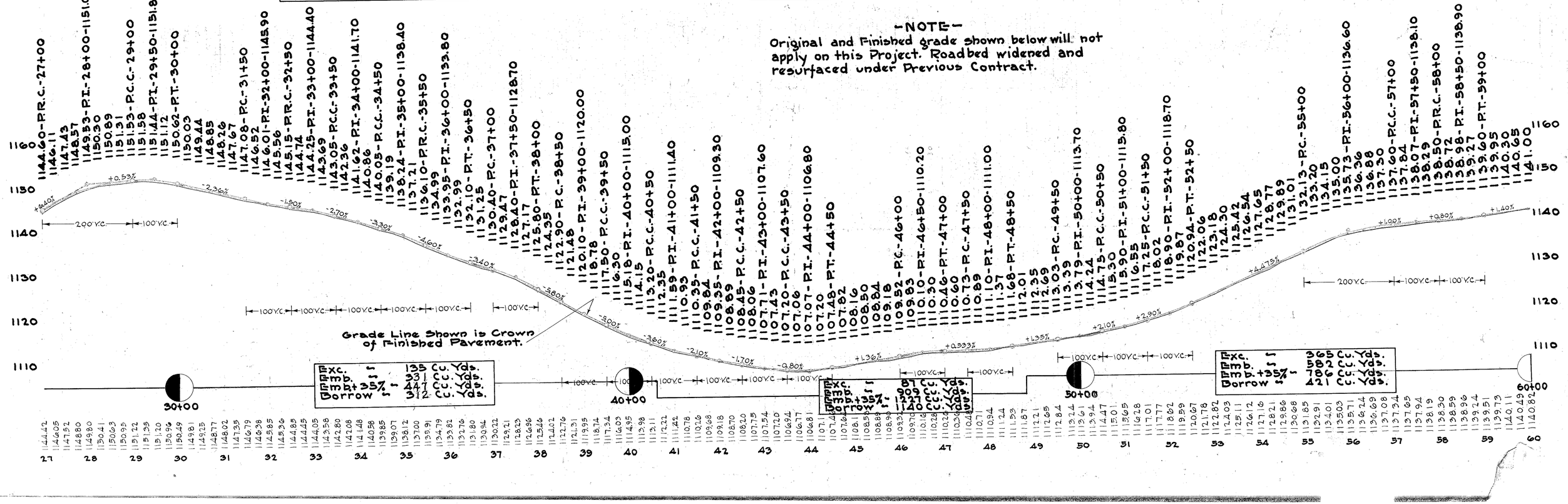
Sta. 50+84 to 51+80 on Rt. place 10' of 18" V.S.P.
Sta. 51+14 to 51+80 on Rt. place 66' of 18" V.S.P.
Sta. 53+60 to 56+66 on Rt. place 306' of 18" V.S.P.
Sta. 57+06 to 58+04 on Rt. place 98' of 18" V.S.P.
Sta. 58+24 to 59+40 on Rt. place 116' of 18" V.S.P.
Sta. 59+60 to 60+20 on Rt. place 60' of 18" V.S.P.

B.M. #5 – 35' Lt. of Sta. 34+65
Spike in Root of Twin Elm Trees.
Elev. – 1142.51

B.M. #6 – 30' Lt. of Sta. 44+60
Spike in Root of 12" Maple Tree.
Elev. – 1107.77

B.M. #7 – 40' Rt. of Sta. 51+80
Spike in Root of 36" Elm Tree.
Elev. – 1122.12

-NOTE-
Original and Finished grade shown below will not apply on this Project. Roadbed widened and resurfaced under Previous Contract.



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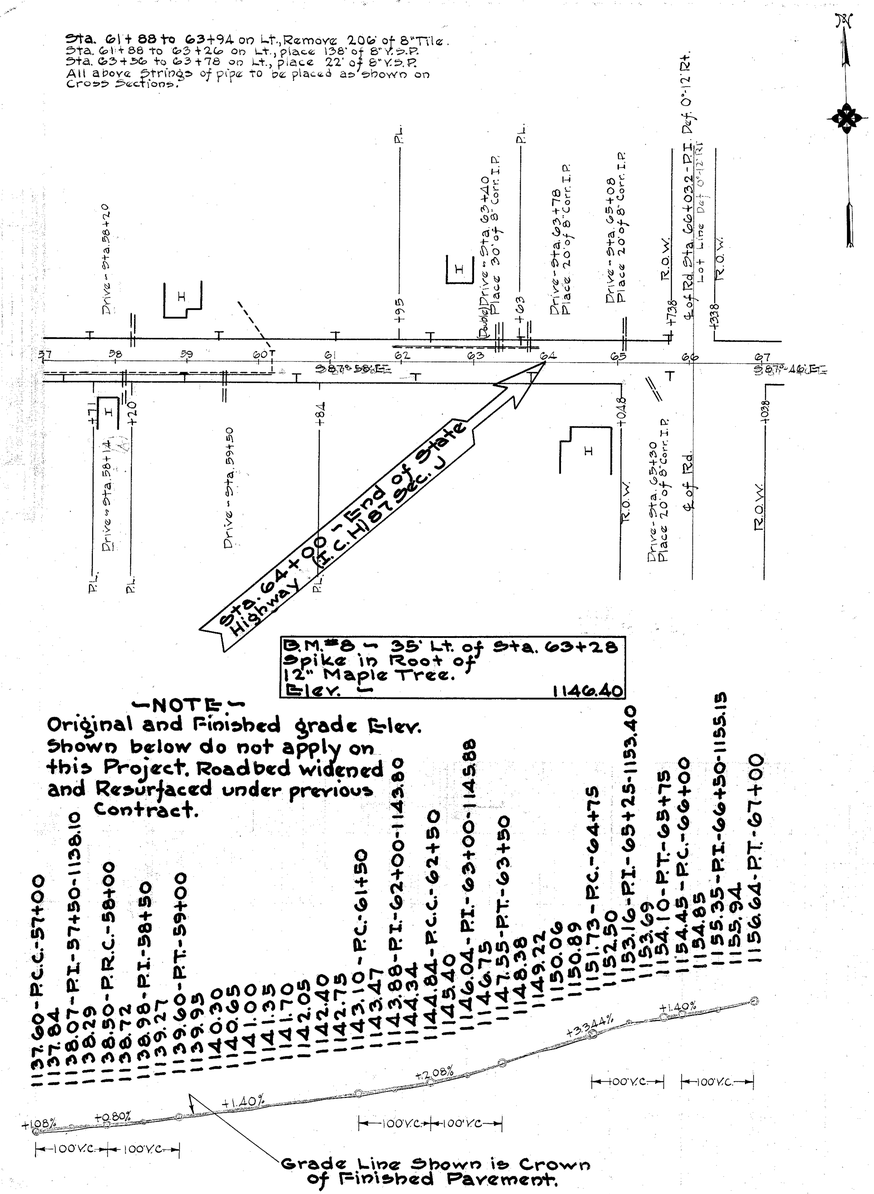
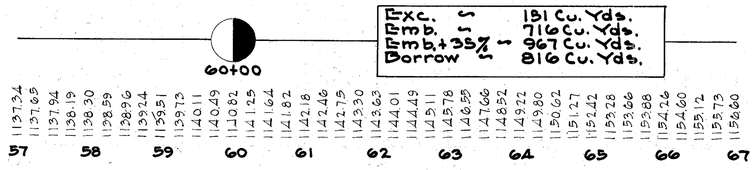
Sta. 61+88 to 63+94 on Lt., Remove 206' of 8" Tile.
Sta. 61+88 to 63+26 on Lt., place 138' of 8" V.S.P.
Sta. 63+56 to 63+78 on Lt., place 22' of 8" V.S.P.
All above Strings of pipe to be placed as shown on Cross Sections.



—NOTE—
Original and Finished grade Elev. shown below do not apply on this Project. Roadbed widened and Resurfaced under previous Contract.



Exc.	—	131 Cu. Yds.
Emb.	—	716 Cu. Yds.
Emb. + 35%	—	967 Cu. Yds.
Borrow	—	816 Cu. Yds.

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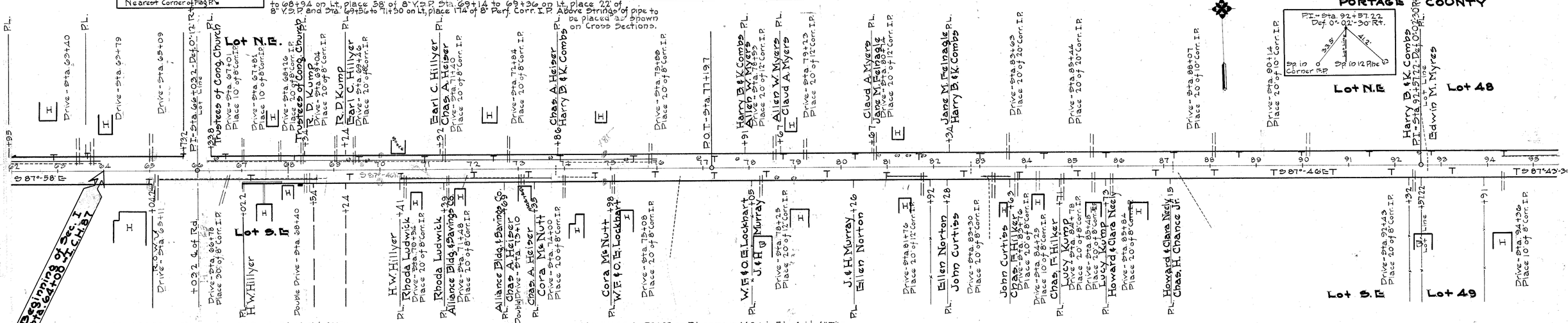
Face of Nearest Pole
P.I.-Sta. 66+03.2 Def. 0°-12' Rt.
Nearest Corner of Flag P.

All tile to be placed in Ditchline is to be backfilled with No. 34 Stone.

Sta. 66+18 to 68+00 on Lt. remove 182 Lin. Ft. of 6" Tile (Old). Also Sta. 68+94 to 71+52 on Lt. remove 258 Lin. Ft. of old 8" Tile.
Sta. 66+28 to 66+96 on Lt., place 68 of 8" V.S.P. Sta. 67+06 to 67+76 on Lt., place 70 of 8" V.S.P. Sta. 67+88 to 68+16 on Lt., place 30 of 8" V.S.P. Sta. 68+36 to 68+94 on Lt., place 58 of 8" V.S.P. Sta. 69+14 to 69+36 on Lt., place 22 of 8" V.S.P. and Sta. 69+56 to 71+30 on Lt., place 174 of 8" Perf. Corr. I.P. Above Strings of pipe to be placed as shown on Cross Sections.

P.O.T.-Sta. 77+19.7 Sp. in Pave.
Sp. in 24" Maple — Sp. in 24" Maple

Sta. 74+06 to 76+00 on Lt. remove 194 Lin. Ft. of 4" Tile (Old).
Sta. 71+50 to 72+74 on Lt., place 124' of 8" V.S.P. Sta. 72+94 to 75+78 on Lt., place 284' of 8" V.S.P.



Sta. 69+14 to 68+83 on Rt. remove 369 Lin. Ft. of old 8" Tile.
Also Sta. 70+42 to 71+03 on Rt. remove 61 Lin. Ft. of old 6" Tile.
Sta. 66+78 to 68+56 on Rt., place 178 of 8" Perf. Corr. I.P. Sta. 70+64 to 71+38 on Rt., place 74' of 8" V.S.P. Sta. 71+58 to 73+40 on Rt., place 182' of 8" Perf. Corr. I.P. All above new strings of pipe to be placed as shown on Cross Sections.

Sta. 71+92 to 72+38 on Rt. remove 143 Lin. Ft. of old 4" Tile.
Also Sta. 73+84 to 74+34 on Rt. remove 70 Lin. Ft. of old 4" Tile.

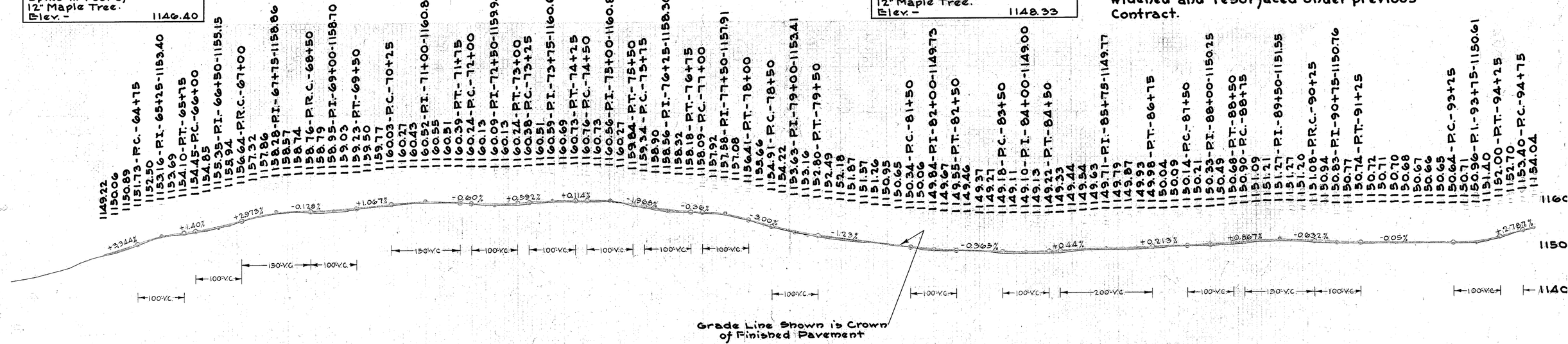
Sta. 81+00 to 81+88 on Rt. remove 88 Lin. Ft. of old 12" Tile.
Also Sta. 83+02 to 83+63 on Rt. remove 61 Lin. Ft. of old 12" Tile.
Sta. 81+00 to 81+66 on Rt., place 66 of 12" V.S.P., 20 ft. from ℄. Also Sta. 83+02 to 83+20 on Rt., place 18' of 8" V.S.P. also Sta. 83+40 to 83+64 on Rt., place 24' of 8" V.S.P. All above strings to be placed 20' from ℄.

B.M. #8 — 35' Lt. of Sta. 63+28
Spike in root of 12" Maple Tree.
Elev. — 1146.40

B.M. #9 — 75' Lt. of Sta. 72+52
Spike in root of 36" Elm Tree.
Elev. — 1161.00

B.M. #10 — 35' Rt. of Sta. 83+00
Spike in root of 12" Maple Tree.
Elev. — 1148.33

—NOTE—
Original and Finished Grade Elevations shown below do not apply on this project. Roadbed widened and resurfaced under previous Contract.



Exc. — 131 Cu. Yds.
Emb. — 716 Cu. Yds.
Emb. + 35% — 967 Cu. Yds.
Borrow — 816 Cu. Yds.

70+00

Exc. — 151 Cu. Yds.
Emb. — 362 Cu. Yds.
Emb. + 35% — 489 Cu. Yds.
Borrow — 338 Cu. Yds.

80+00

Exc. — 171 Cu. Yds.
Emb. — 314 Cu. Yds.
Emb. + 35% — 694 Cu. Yds.
Borrow — 523 Cu. Yds.

90+00

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Sta. 94+33 to 96+49 on Lt. remove 216 Lin. Ft. of old 8" Tile.
Sta. 94+33 to 96+27 on Lt., place 194' of 8" V.S.P., 20' from ℄.

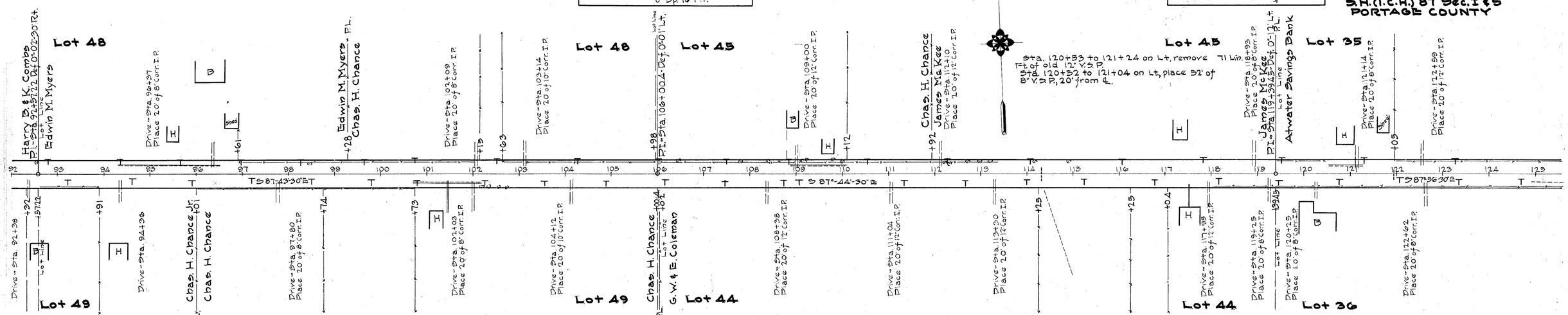
P.I.-Sta. 106+00.4 — Def. 0°-01' Lt. — Sp. in 24" Apple — Sp. in F.P. — 29.35' — 27.88' — Lot Line

Sta. 109+00 to 110+06 on Lt. remove 106 Lin. Ft. of old 12" V.S.P.
Sta. 109+10 to 110+06 on Lt., place 96' of 12" V.S.P., 20' from ℄.

All tile to be placed in Ditch-line is to be backfilled with No 34 Stone.

Sp. in 18" Maple — Sp. in 12" Cherry — P.I.-Sta. 119+39.45 — Def. 0°-12' Rt. — 27.65' — 29.95' — Lot Line

Sta. 120+53 to 121+24 on Lt. remove 71 Lin. Ft. of old 12" V.S.P.
Sta. 120+52 to 121+04 on Lt., place 52' of 8" V.S.P., 20' from ℄.



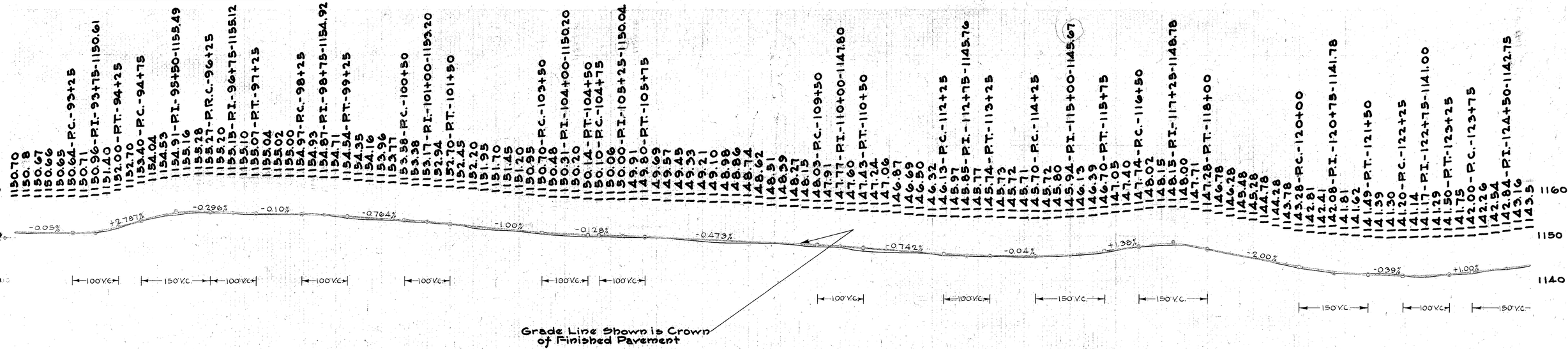
B.M. #11 - 40' Rt. of Sta. 95+96
Spike in Root of
30" Maple Tree.
Elev. - 1157.37

Sta. 100+67 to 102+25 on Rt. remove 138 Lin. Ft. of old 8" Tile.
Sta. 100+67 to 101+93 on Rt. place 126' of 8" V.S.P. also
Sta. 102+13 to 102+25 on Rt. place 12' of 8" V.S.P. Both strings of pipe to be placed 20' from ℄.

B.M. #12 - 35' Lt. of Sta. 106+47
Spike in Root of
18" Maple Tree.
Elev. - 1149.04

B.M. #13 - 75' Lt. of Sta. 115+53
Spike in Root of
36" Elm Tree
Elev. - 1145.81

- NOTE -
Original and Finished grade Elevations shown below do not apply on this project. Roadbed widened and resurfaced under previous Contract.



Exc. ⟷	189 Cu. Yds.
Emb. ⟷	715 Cu. Yds.
Emb. + 35% ⟷	965 Cu. Yds.
Borrow ⟷	776 Cu. Yds.

100+00

Exc. ⟷	214 Cu. Yds.
Emb. ⟷	535 Cu. Yds.
Emb + 35% ⟷	722 Cu. Yds.
Borrow ⟷	508 Cu. Yds.

110+00

Exc. ⟷	538 Cu. Yds.
Emb. ⟷	310 Cu. Yds.
Emb + 35% ⟷	418 Cu. Yds.
Waste ⟷	120 Cu. Yds.

120+00

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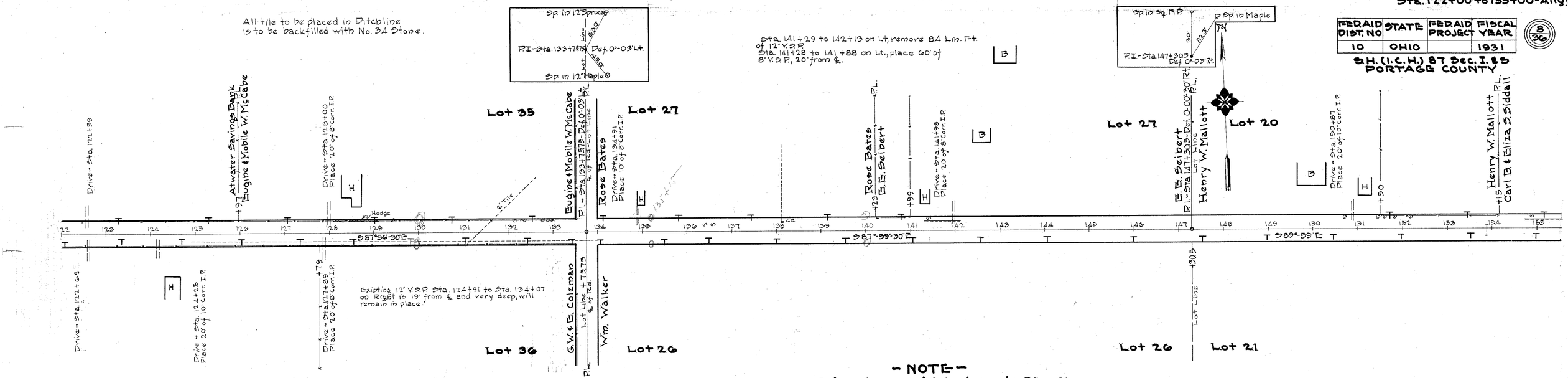
All tile to be placed in Ditchline is to be backfilled with No. 34 Stone.

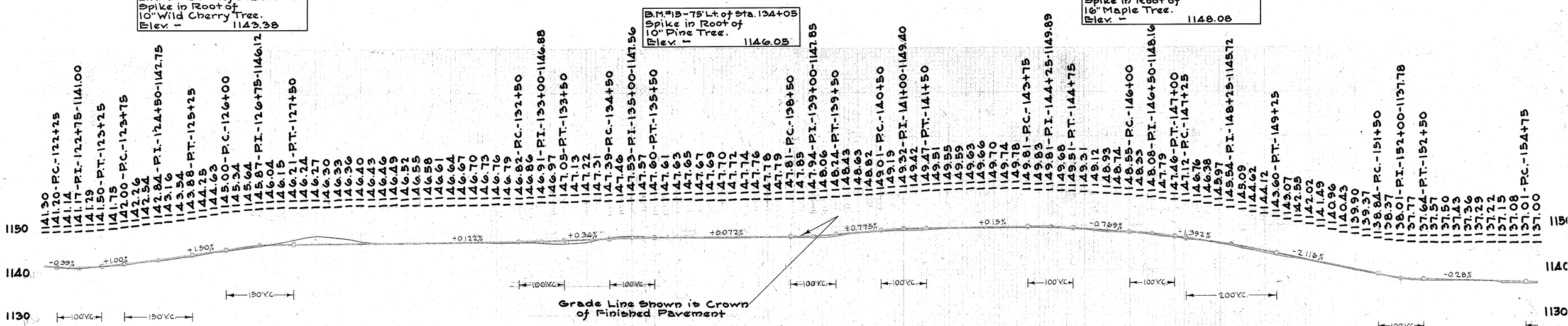


- NOTE -
Original and Finished grade Elev. Shown below do not apply on this Project. Roadbed widened and resurfaced under previous Contract.

B.M. #14 - 30' Lt. of Sta. 125+25
Spike in Root of 10" Wild Cherry Tree.
Elev. - 1143.38

B.M. #15 - 75' Lt. of Sta. 134+05
Spike in Root of 10" Pine Tree.
Elev. - 1146.05

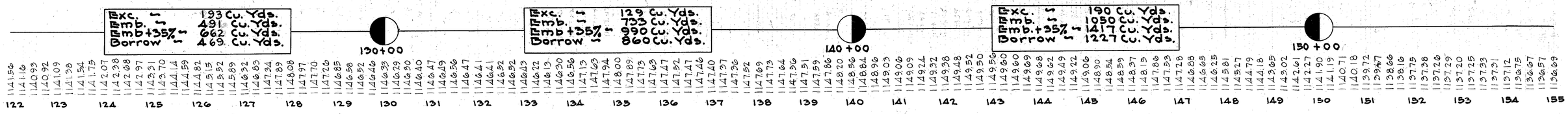
B.M. #16 - 35' Lt. of Sta. 145+85
Spike in Root of 16" Maple Tree.
Elev. - 1148.08



Exc. -	193 Cu. Yds.
Emb. -	491 Cu. Yds.
Emb + 35% -	662 Cu. Yds.
Borrow -	469 Cu. Yds.

Exc. -	129 Cu. Yds.
Emb. -	733 Cu. Yds.
Emb + 35% -	990 Cu. Yds.
Borrow -	860 Cu. Yds.

Exc. -	190 Cu. Yds.
Emb. -	1050 Cu. Yds.
Emb. + 35% -	1417 Cu. Yds.
Borrow -	1227 Cu. Yds.



Sta. 152+00 to 185+00-Align.

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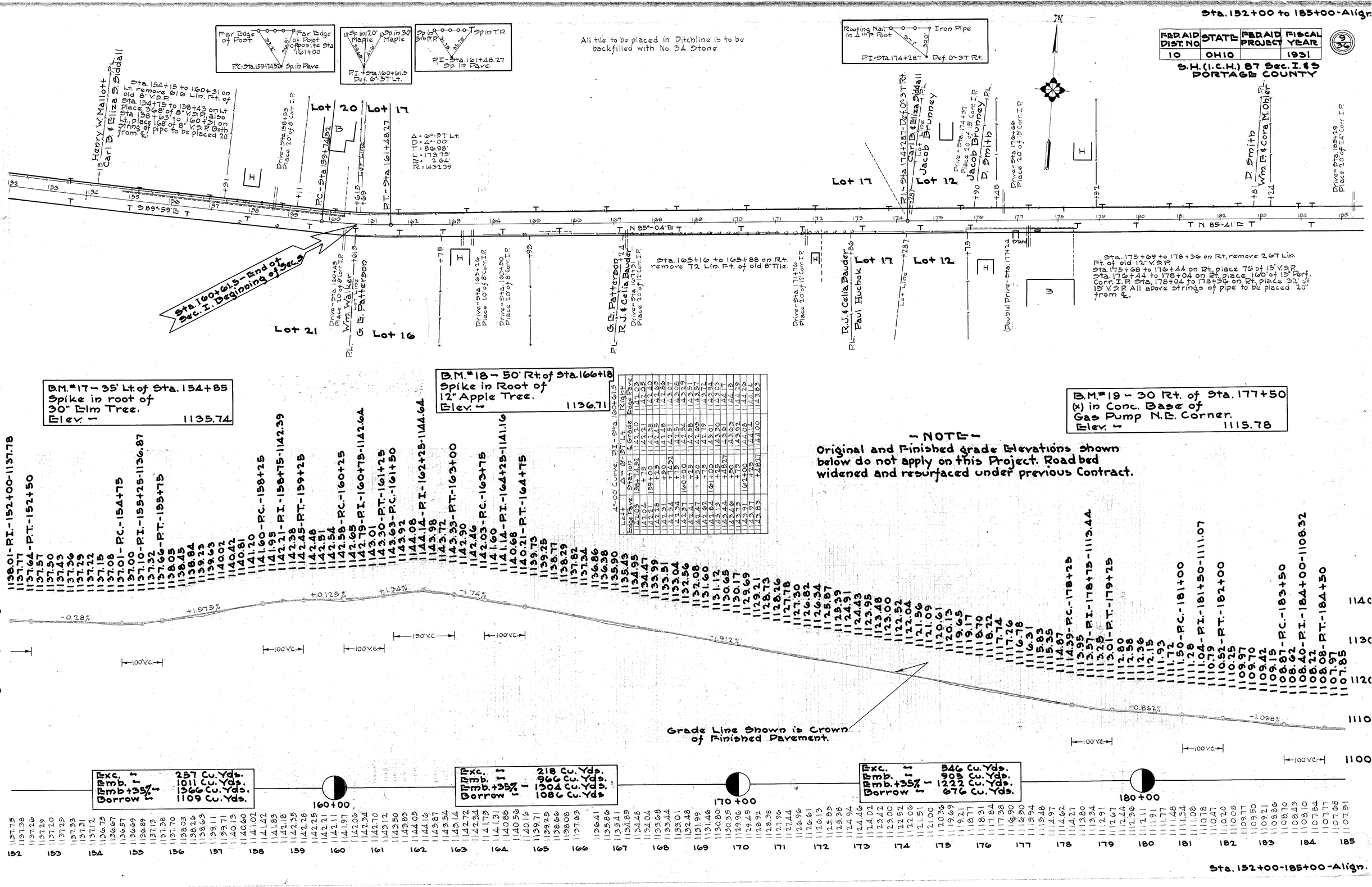

Sta. 182+00 to 215+00-Alig

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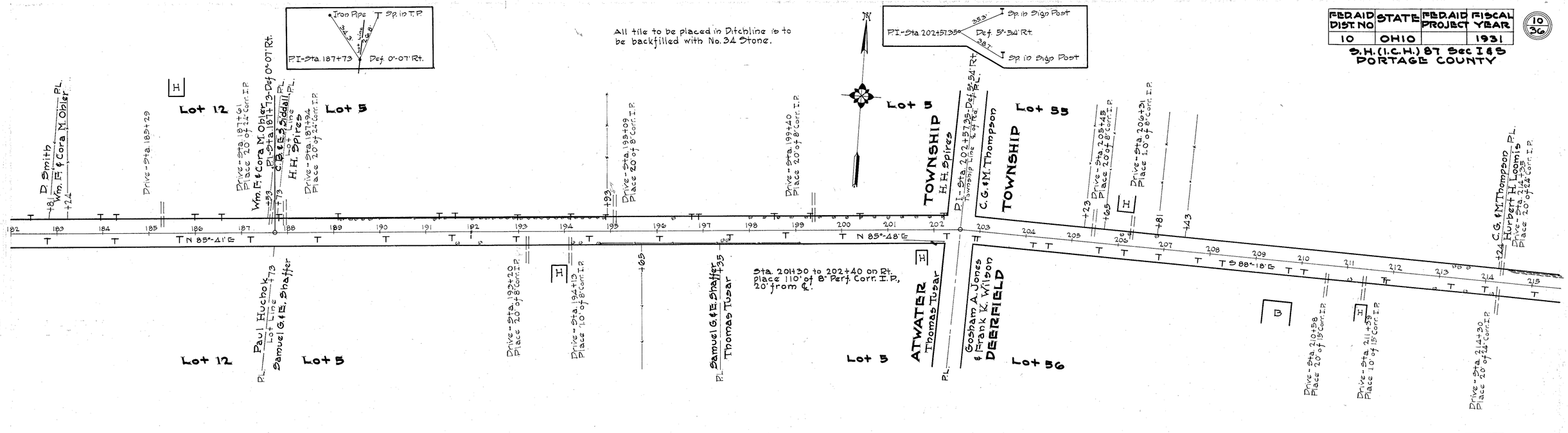

Sta. 182+00 to 215+00-Alig

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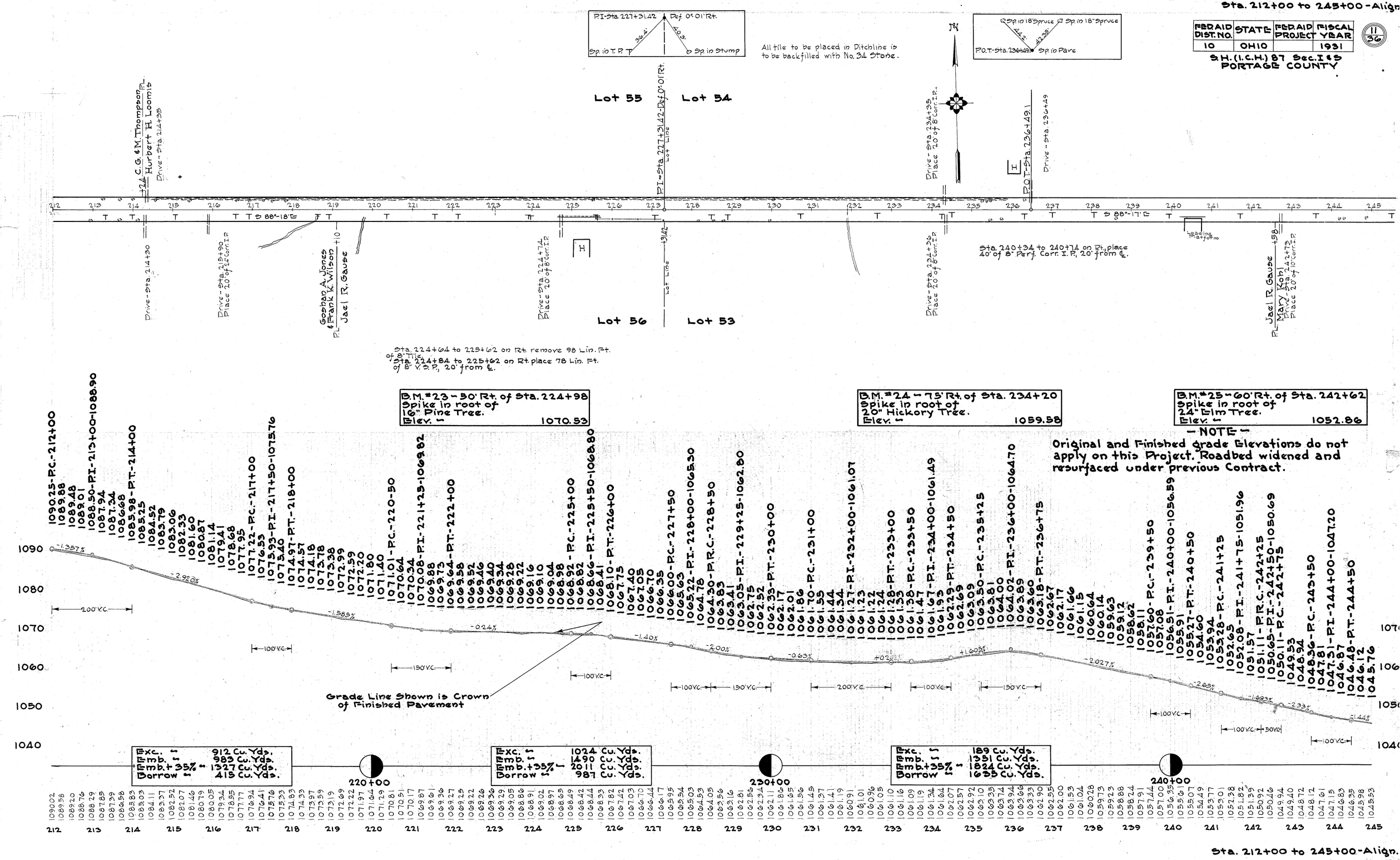

Sta. 242+00 to 275+00 - Alig

FEDERAL DIST. NO.	STATE	FEDERAL PROJECT	FISCAL YEAR
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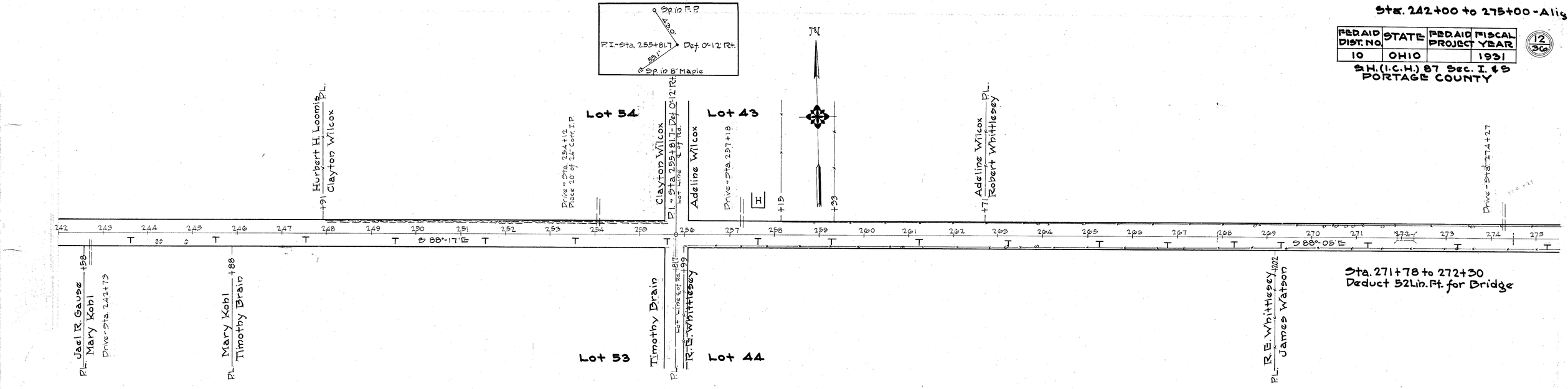
PORTAGE COUNTY



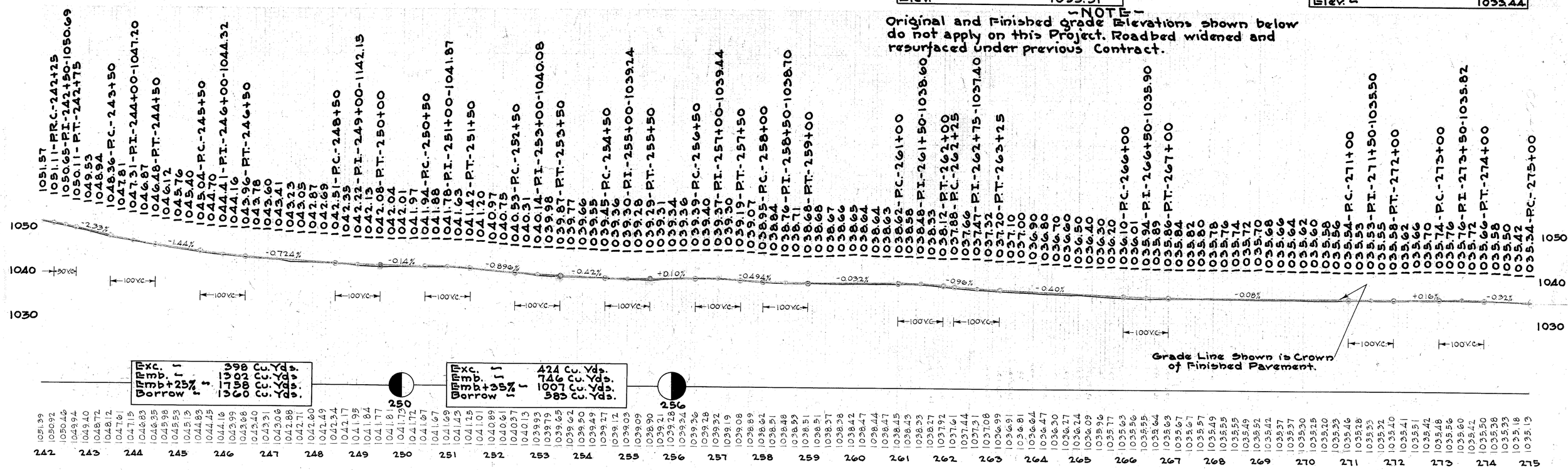
Sta. 271+78 to 272+30
Deduct 52 Lin. Ft. for Bridge

B.M. #26 - 50' Rt. of Sta. 262+90
Spike in root of
36" Elm Tree.
Elev. - 1035.31

B.M. #27 - 100' Rt. of Sta. 272+10
Spike in root of
16" Hickory Tree.
Elev. - 1033.44

-NOTE-

Original and Finished grade Elevations shown below do not apply on this Project. Roadbed widened and resurfaced under previous Contract.



Sta. 242+00 to 275+00 - Alig

FEDRAID DIST. NO	STATE	FEDRAID PROJECT	FISCAL YEAR
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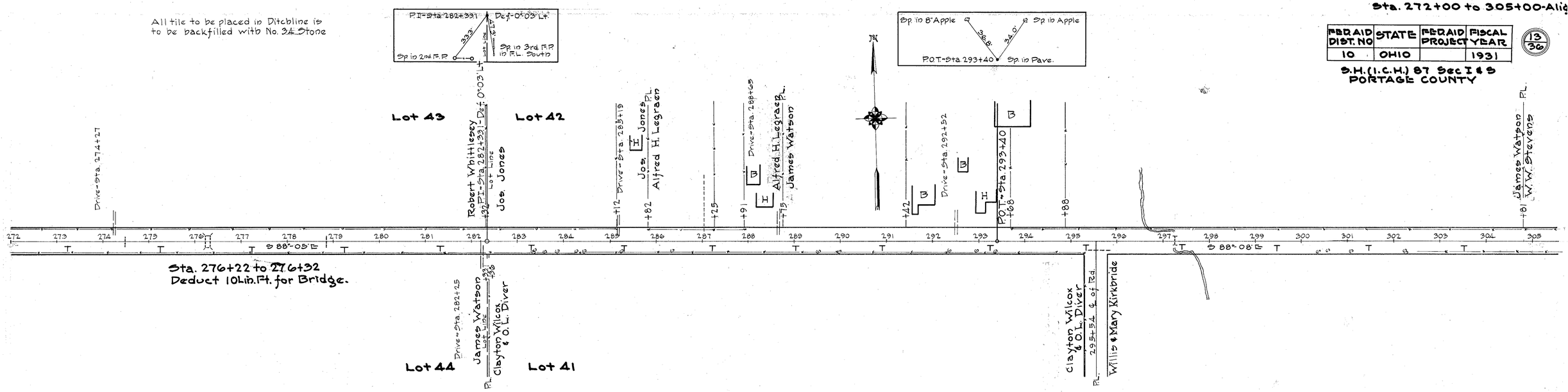
All tile to be placed in Ditchline is to be backfilled with No. 34 Stone

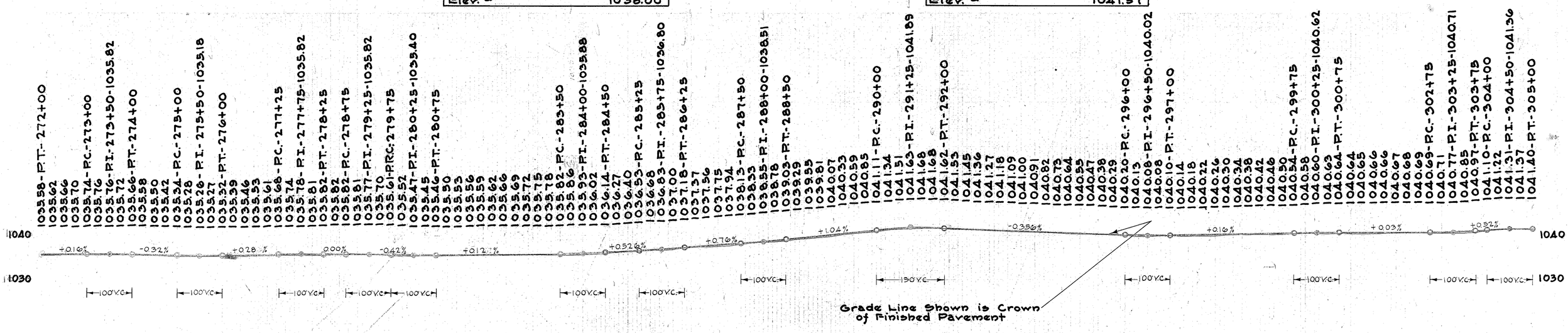


B.M. #28 - 100' Lt. of Sta. 285+45
Spike in root of
15" Pine Tree.
Elev. - 1038.00

B.M. #29 - 30' Rt. of Sta. 292+13
Spike in root of
16" Elm Tree.
Elev. - 1041.57

- NOTE -

Original and Finished grade Elevations shown below do not apply on this Project. Roadbed widened and resurfaced under previous Contract.



No Earthwork Required.
Finishing Shoulders Slopes and Ditches only
Roadbed widened under Project No. 111, Contract No. 4730, 1931.

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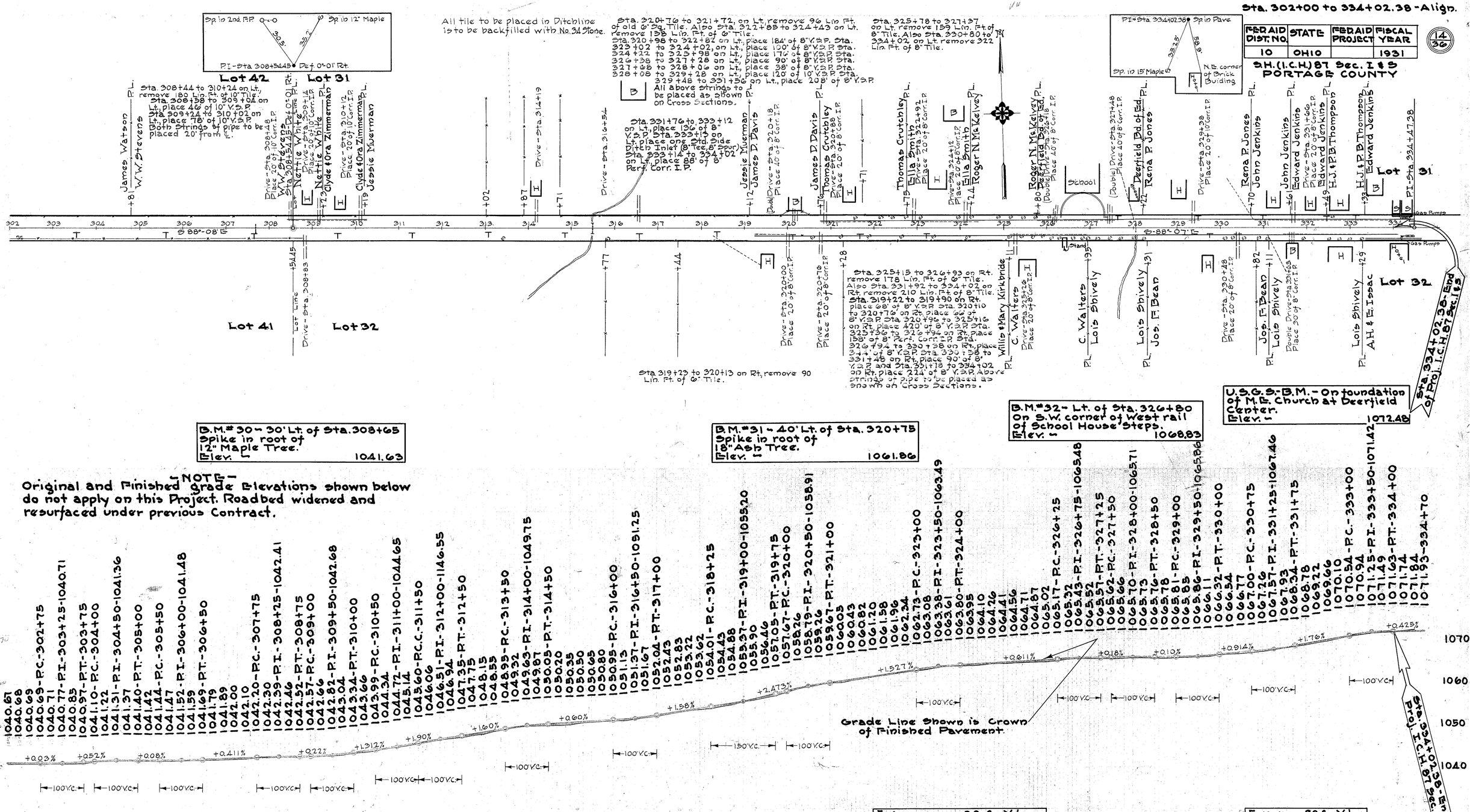

B.M. #30 - 30' Lt. of Sta. 308+65
Spike in root of 12" Maple Tree.
Elev. - 1041.63

B.M. #31 - 40' Lt. of Sta. 320+75
Spike in root of 18" Ash Tree.
Elev. - 1061.86

B.M. #32 - Lt. of Sta. 326+80
On S.W. corner of West rail of School House Steps.
Elev. - 1068.83

U.S.G.S.-B.M. - On foundation of M.E. Church at Deerfield Center.
Elev. - 1072.48

- NOTE -
Original and Finished Grade Elevations shown below do not apply on this Project. Roadbed widened and resurfaced under previous Contract.

1040.61 1040.68 1040.69 1040.69 1040.71 1040.77 1040.85 1040.97 1041.10 1041.22 1041.31 1041.37 1041.40 1041.42 1041.44 1041.47 1041.52 1041.59 1041.69 1041.79 1041.89 1042.00 1042.10 1042.20 1042.30 1042.39 1042.46 1042.52 1042.57 1042.66 1042.82 1043.04 1043.34 1043.66 1043.99 1044.34 1044.72 1045.14 1045.60 1046.06 1046.51 1046.94 1047.35 1047.75 1048.15 1048.55 1048.95 1049.32 1049.63 1049.87 1050.05 1050.20 1050.35 1050.50 1050.65 1050.80 1050.95 1051.13 1051.37 1051.67 1052.04 1052.43 1052.83 1053.22 1053.62 1054.01 1054.43 1054.88 1055.37 1055.90 1056.46 1057.05 1057.67 1058.26 1058.79 1059.26 1059.67 1060.03 1060.43 1060.82 1061.20 1061.58 1061.96 1062.34 1062.73 1063.08 1063.38 1063.61 1063.80 1063.95 1064.10 1064.26 1064.41 1064.56 1064.71 1064.87 1065.02 1065.17 1065.32 1065.43 1065.52 1065.51 1065.62 1065.66 1065.70 1065.73 1065.76 1065.78 1065.81 1065.85 1065.86 1065.86 1065.86 1065.71 1065.48 1065.19 1065.38 1065.36 1065.29 1065.23 1065.35 1065.54 1065.54 1065.51 1065.37 1065.52 1065.65 1065.71 1065.88 1066.25 1066.27 1066.41 1066.66 1067.00 1067.38 1067.81 1068.07 1068.52 1069.01 1069.37 1070.00 1070.47 1070.80 1071.11 1071.38 1071.59 1071.89 1072.01 1067.46 1067.26 1067.57 1067.93 1068.34 1068.78 1069.22 1069.66 1070.10 1070.54 1070.94 1071.25 1071.49 1071.63 1071.74 1071.84 1071.93 1071.42 1070.00 1070.00 1070.00

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End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
	34		
		6	74
13	6		
		11	44
3	18		
		28	62
12	16		
		73	40
28	6		
		94	29
23	10		
		43	46
	15		
			25
	12		
			11
	0		

Exc. 270 Cu. Yds.
Emb. 846 Cu. Yds.
Emb+35% = 1141 Cu. Yds.
Borrow 871 Cu. Yds.

No Work within these Limits
(See Note on Sheet #2)

1114.76
7+00
1114.37

1110.20
1109.20

1116.95
6+00
1116.85

1114.00
1114.00

1118.48
5+00
1118.31

1115.50

1119.65
4+00
1119.68

1116.50

1118.29
3+00
1118.82

1111.00

1114.12
2+00
1113.90

1107.70

1110.17
1+00
1110.07

1109.08
0+50
1108.91

1108.08
0+00
1108.08

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
	10		
			43
	13		
			50
	14		
		4	35
2	5		
		4	19
	5		
		15	15
8	3		
		30	28
8	12		
		15	94
	39		
			213
	77		
			206

Exc. 53 Cu. Yds.
Emb. 381 Cu. Yds.
Emb.+35 = 514 Cu. Yds.
Borrow 461 Cu. Yds.

No Work within these Limits

1119.90

1122.40
6+00
1122.08

1115.62

1120.50

1123.06
5+00
1122.93

1113.37

1121.00

1123.40
4+00
1123.18

1115.12

1122.00

1124.56
3+00
1124.46

1120.50

1122.80

1125.47
2+00
1125.30

1122.80

1122.00

1124.43
1+00
1124.26

1122.00

1118.50

1121.09
0+00
1120.83

1118.50

1111.80

1116.75
9+00
1116.45

1111.80

1106.50

1114.86
8+00
1114.57

1106.50

FED AID DIST. NO	STATE	FED AID PROJECT	FISCAL YEAR
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PORTAGE COUNTY

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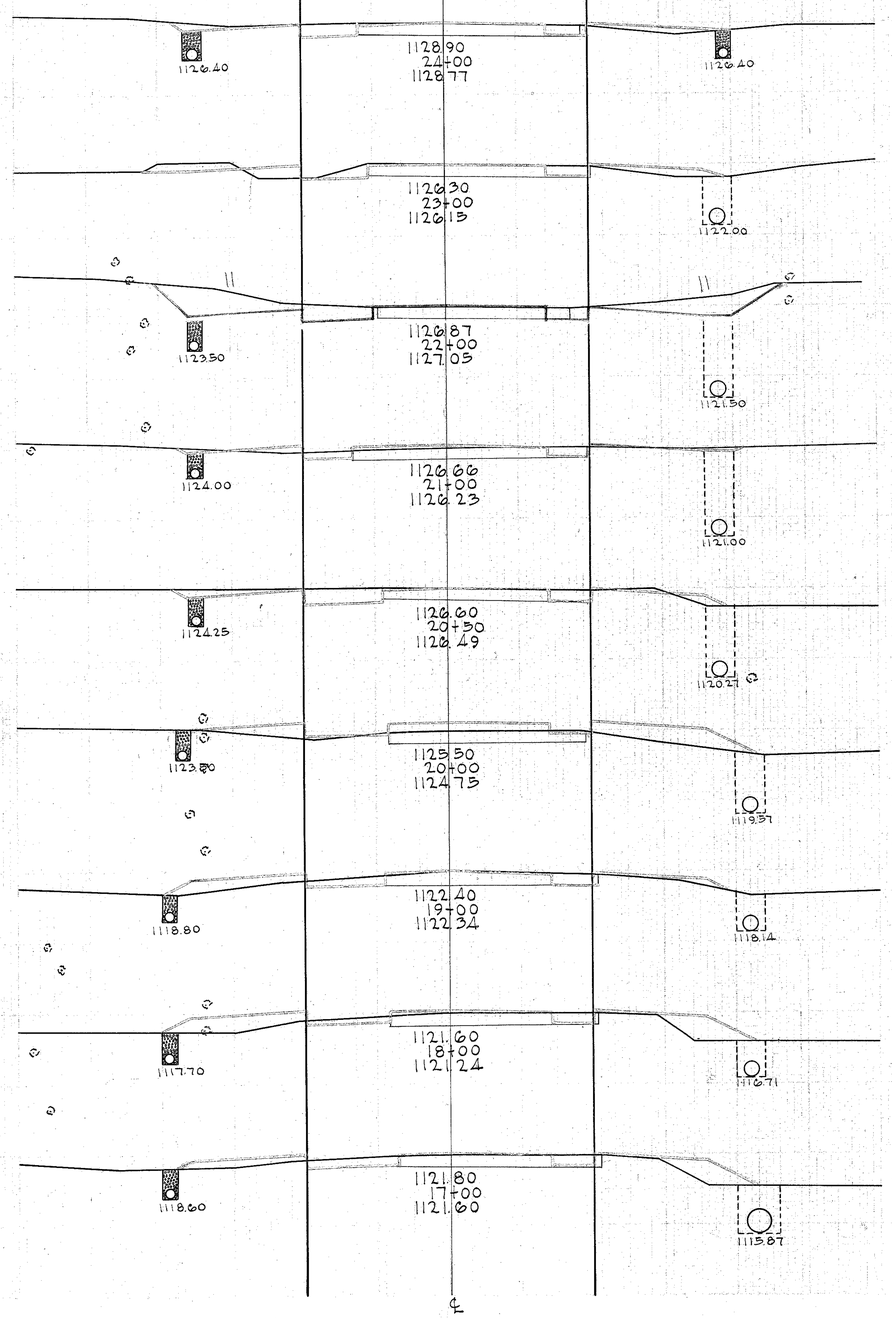
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
2	3		
		11	20
4	8		
		48	15
22	0		
		43	4
1	2		
		4	4
3	2		
		3	16
2	15		
		13	44
8	9		
		23	48
5	17		
		25	36
5	13		
		21	43

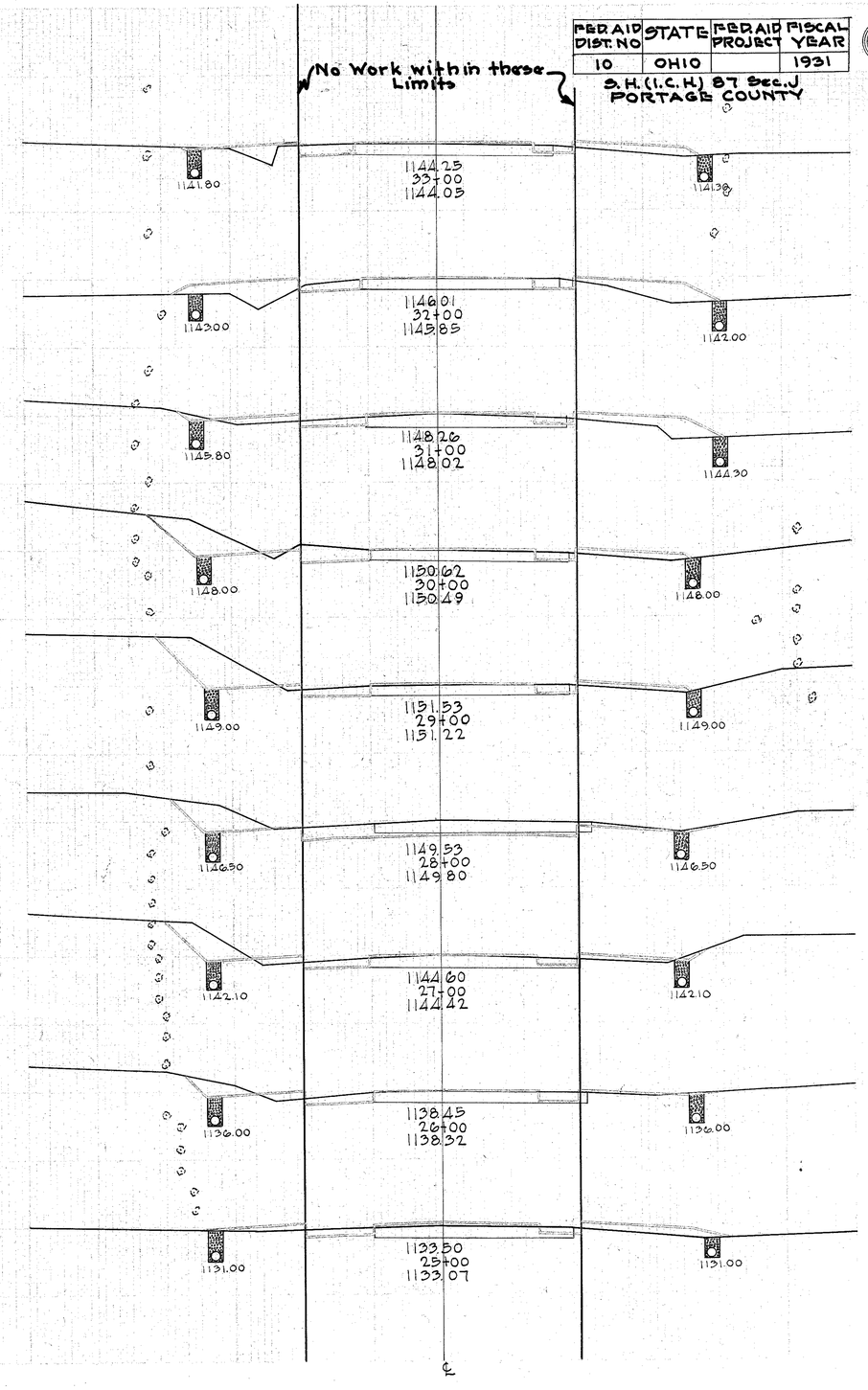
No Work within these Limits
(See Note on Sheet #2)



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
10	9		
		23	52
5	19		
		25	36
5	11		
		24	30
13	5		
		52	17
13	4		
		44	7
9	0		
		31	7
8	4		
		22	11
4	2		
		7	20
4	9		
		4	22

Exc. 269 Cu. Yds.
Emb. 143 Cu. Yds.
Emb. + 35% = 193 Cu. Yds.
Waste 76 Cu. Yds.

No Work within these Limits



FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
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S.H. (I.C.H.) 87 Sec. J
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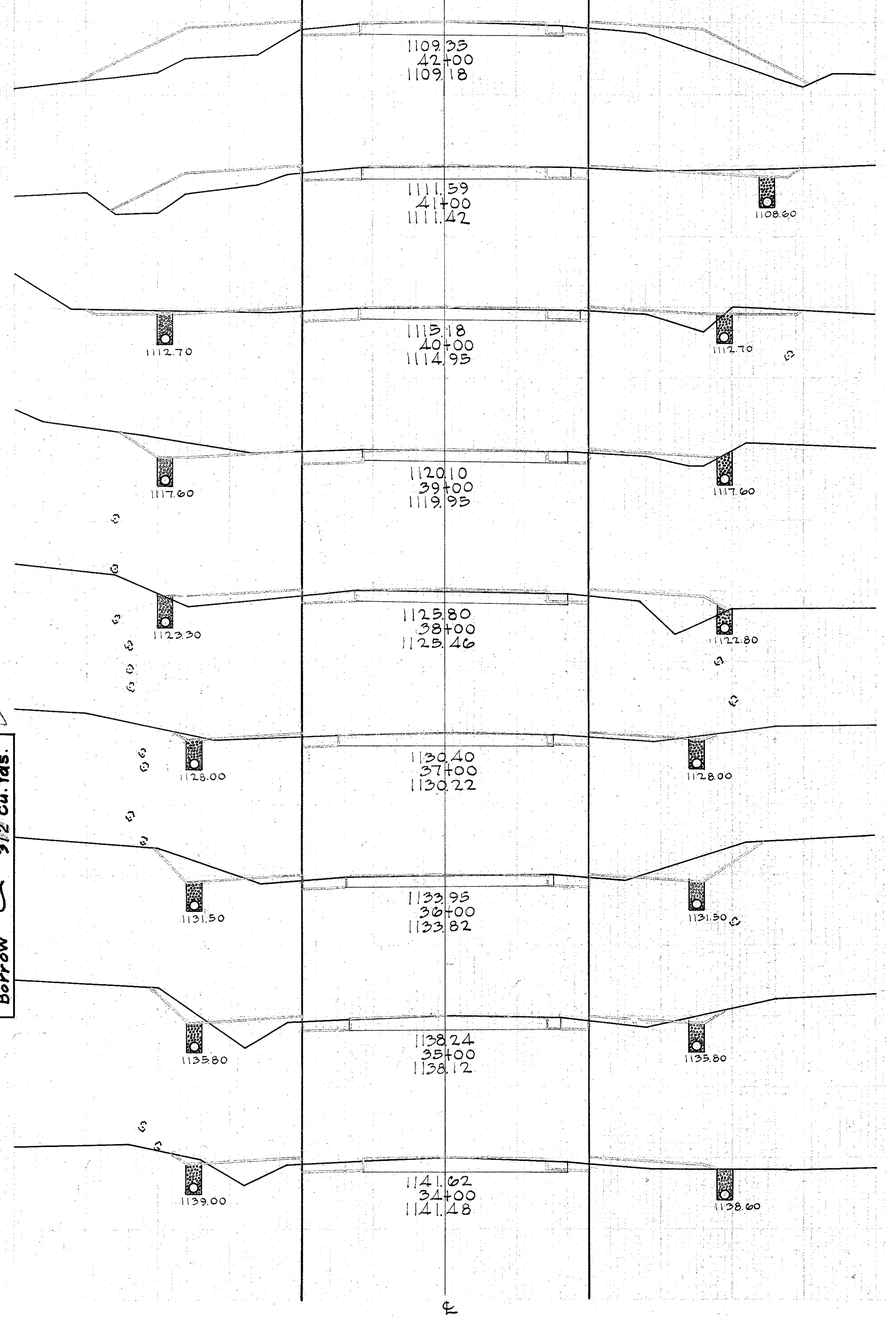
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	41		
		6	107
3	17		
		17	44
6	7		
		26	20
8	4		
		15	44
	20		
			44
	4		
		28	13
15	3		
		35	22
4	9		
		7	33
	10		
			35

135 Cu. Yds.
931 Cu. Yds.
Exc.
Emb.
Emb. + 35% = 447 Cu. Yds.
Borrow 312 Cu. Yds.

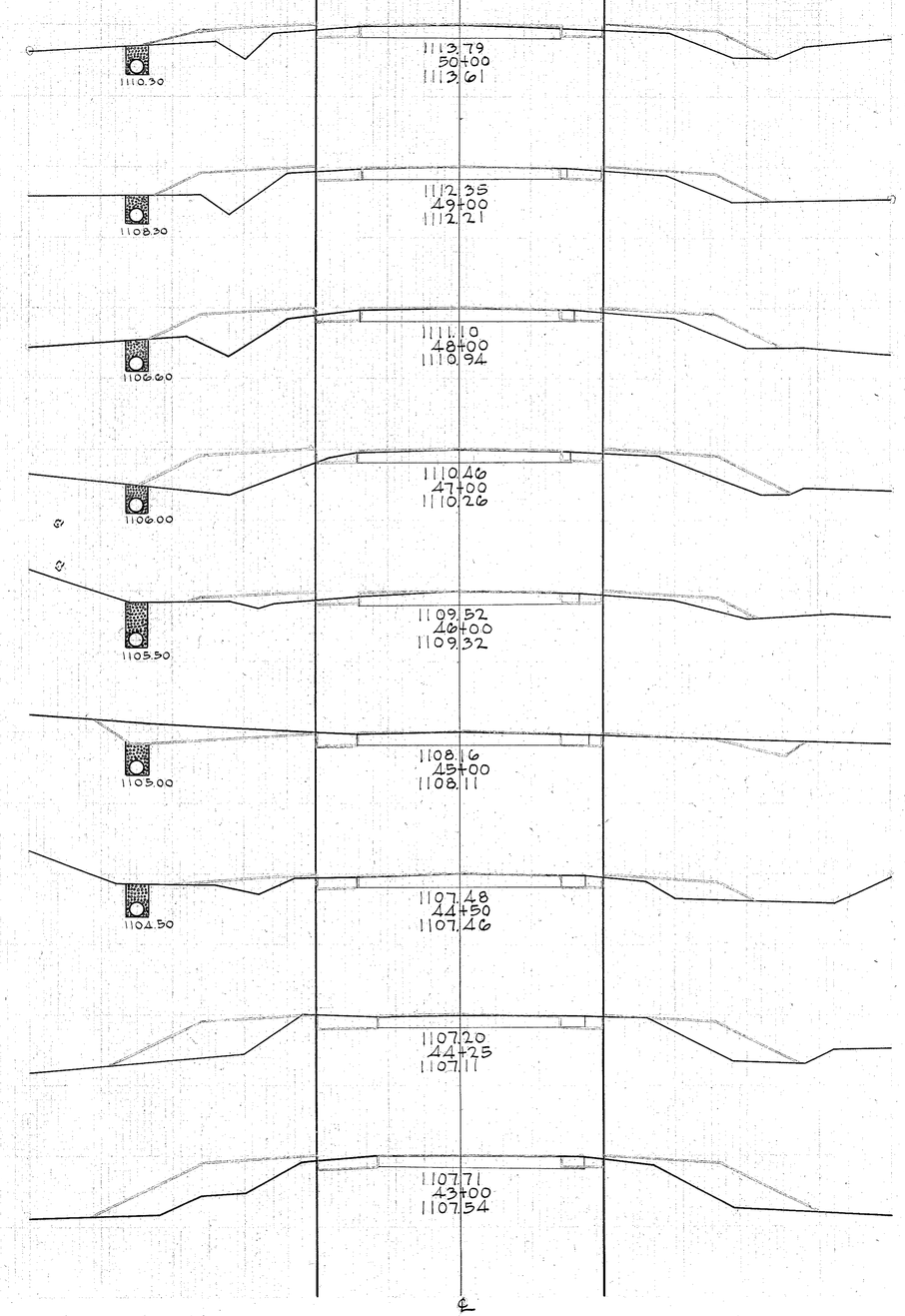
No Work within these Limits
(See Note on Sheet #2)



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	21		
			85
	25		
			100
	29		
			117
	34		
			85
	12		
		43	22
23	0		
		21	13
	14		
			23
	36		
			132
	46		
			161

87 Cu. Yds.
909 Cu. Yds.
Exc.
Emb.
Emb. + 35% = 1227 Cu. Yds.
Borrow 1140 Cu. Yds.

No work Within these Limits



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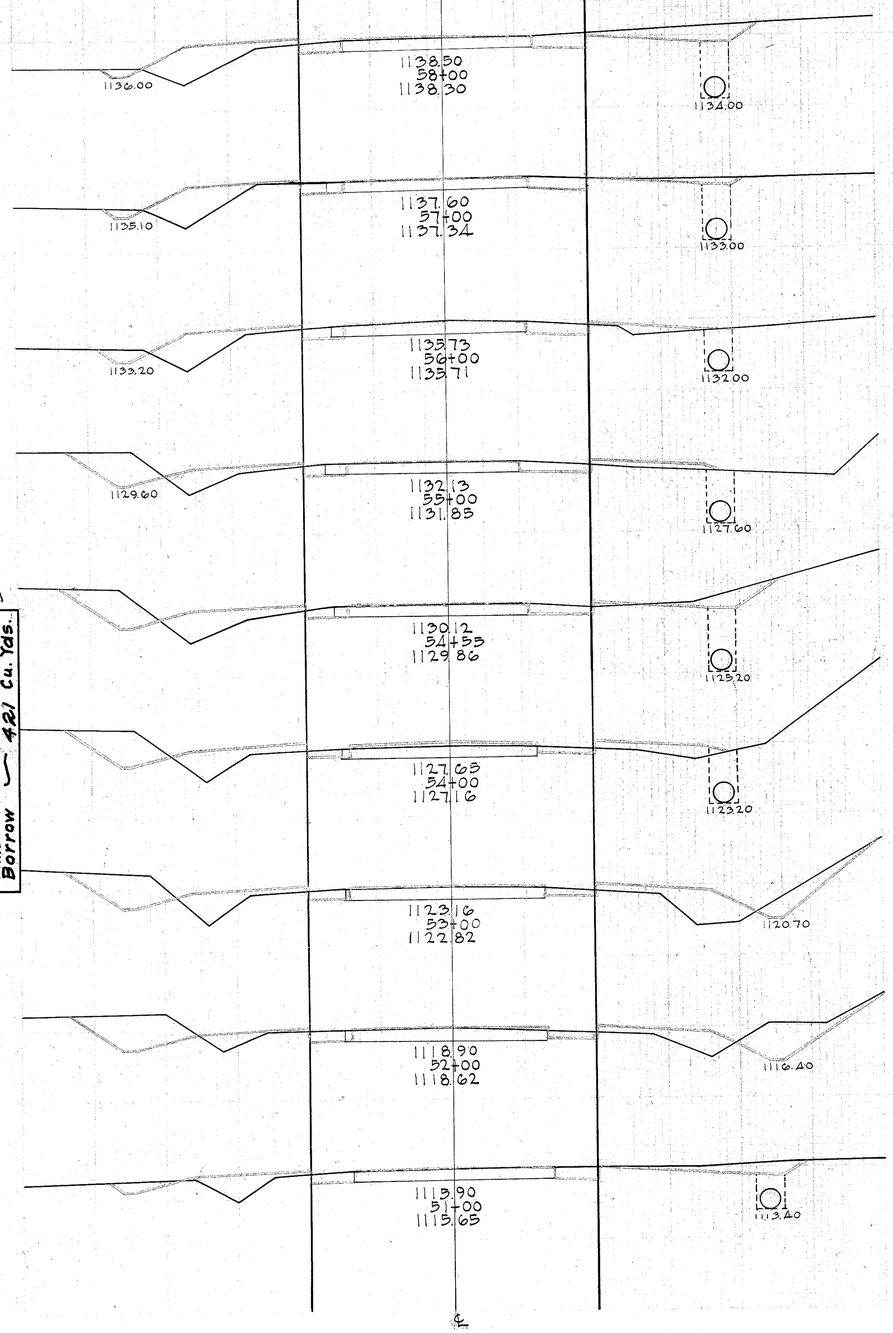
S.H. (I.C.H.) 87 Sec. J
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
11	14		
		26	48
3	12		
		11	50
3	15		
		26	48
11	11		
		23	25
17	13		
		30	31
12	17		
		56	78
18	25		
		85	70
28	13		
		70	39
10	8		
		18	54

365 Cu. Yds. Exc.
582 Cu. Yds. Emb.
786 Cu. Yds. Emb. + 35%
421 Cu. Yds. Borrow

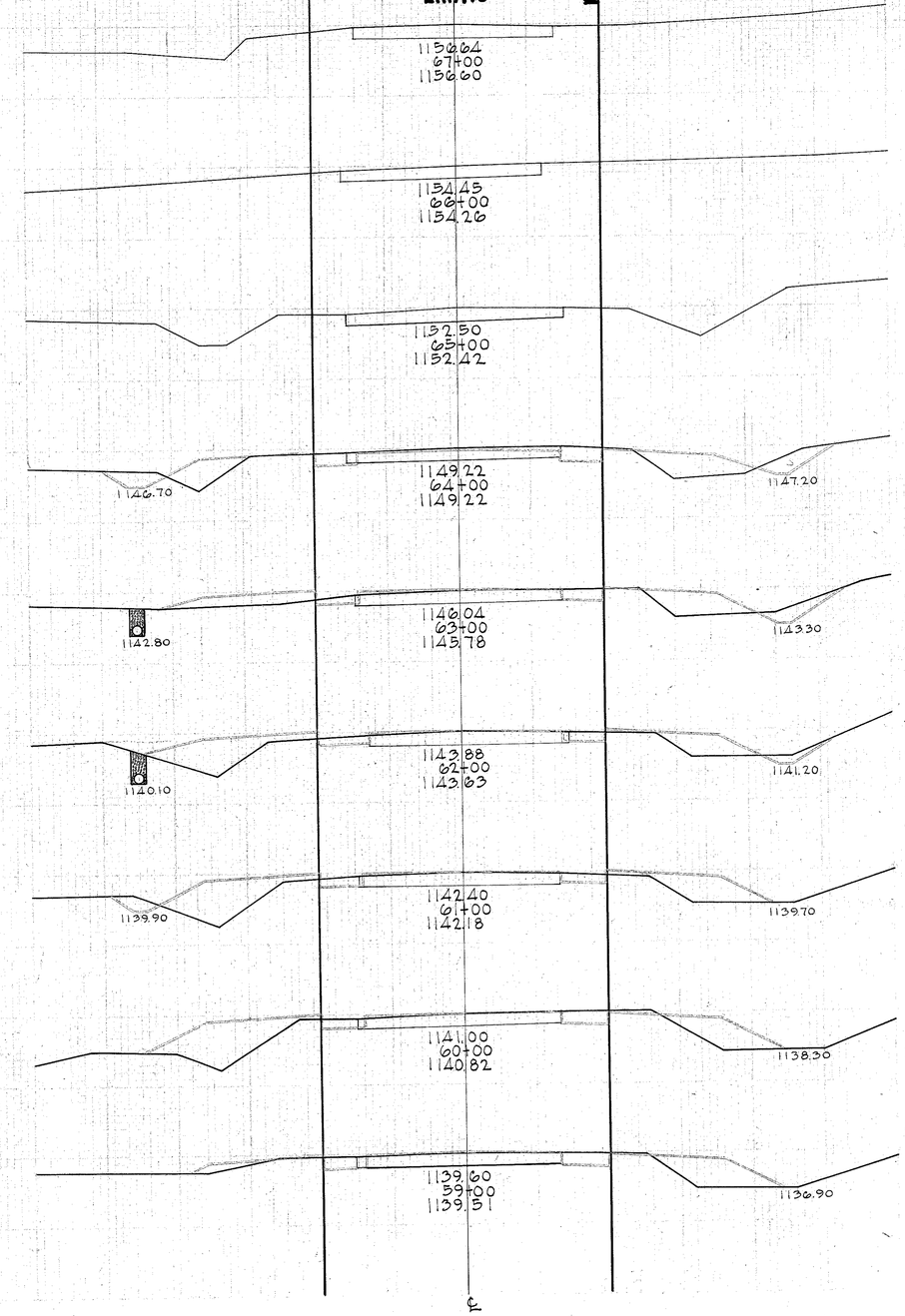
No Work within these Limits
(See Note on Sheet #2)



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
5	18		
		17	65
4	17		
		11	78
2	25		
		7	102
2	30		
		4	113
	31		
			83
	15		
		20	34

151 Cu. Yds. Exc.
716 Cu. Yds. Emb.
967 Cu. Yds. Emb. + 35%
816 Cu. Yds. Borrow

No Work within these Limits



Sta. 64+00 to 81+00

FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
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PORTAGE COUNTY

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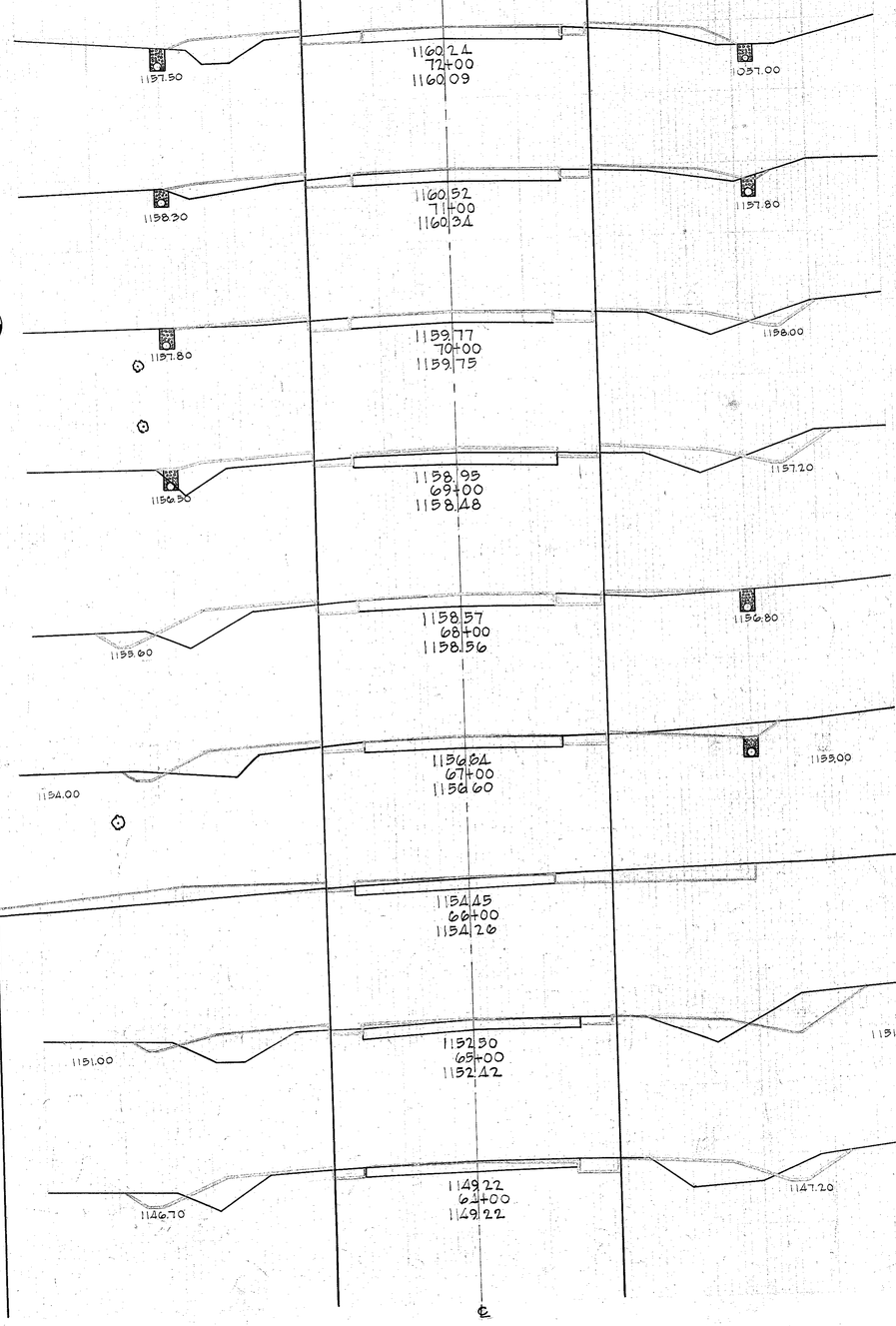
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
	14		
			46
	11		
		4	32
2	6		
		11	48
4	20		
		11	63
2	15		
		18	48
8	11		
		15	57
	20		
		22	72
12	19		
		35	68
7	18		

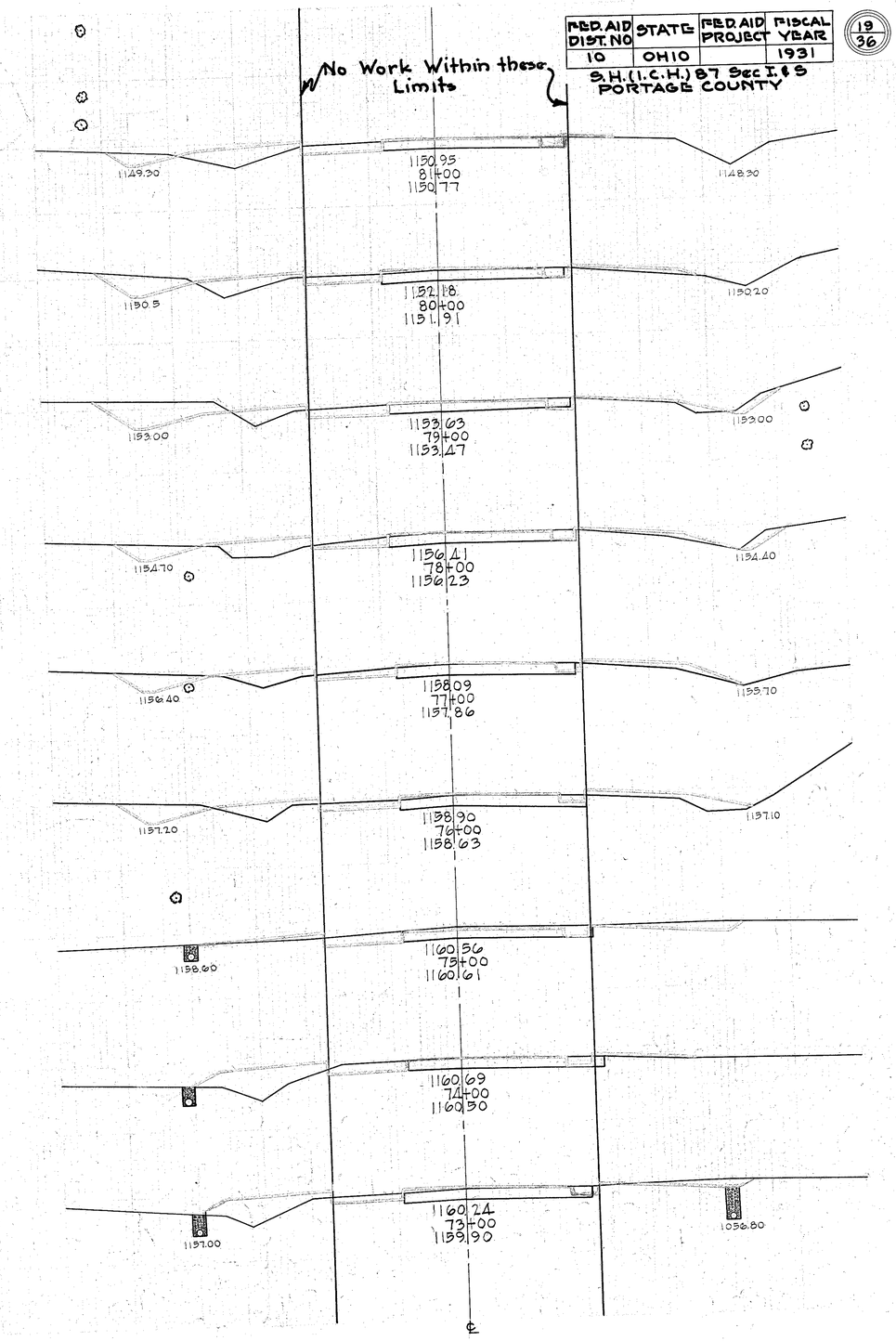
No Work Within these Limits
(See Note on Sheet No 2)



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
3	9		
		18	33
7	9		
		43	26
16	5		
		39	26
5	9		
		18	35
5	10		
		18	41
5	12		
		15	24
3	1		
		6	32
	16		
		4	32
2	12		
		4	48

151 Cu. Yds. Exc.
362 Cu. Yds. Emb.
489 Cu. Yds. Emb. + 35% Borrow
338 Cu. Yds. Borrow

No Work Within these Limits



Sta. 64+00 to 81+00

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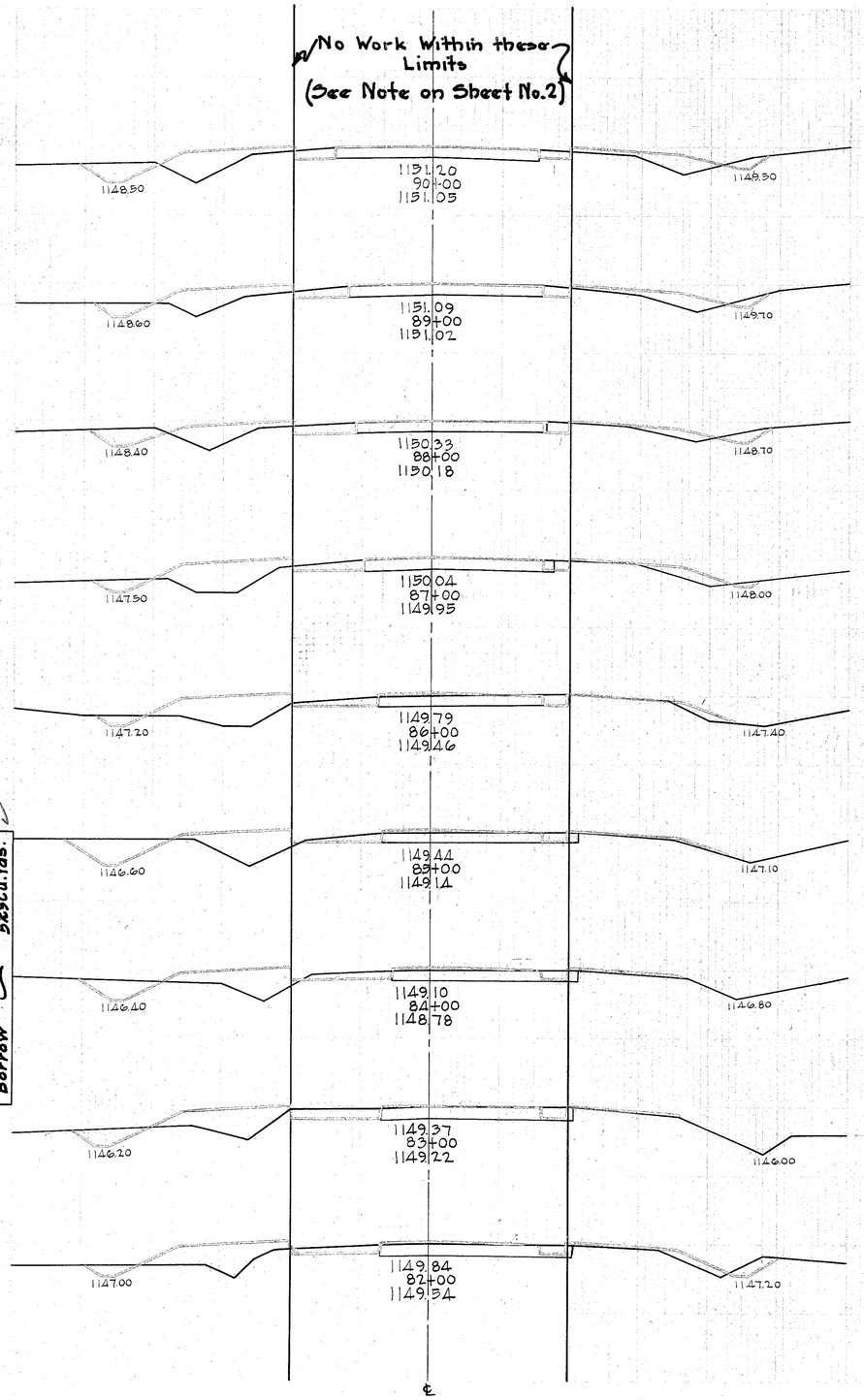
S.H. (I.C.H.) 87 Sec. I. & S
PORTAGE COUNTY

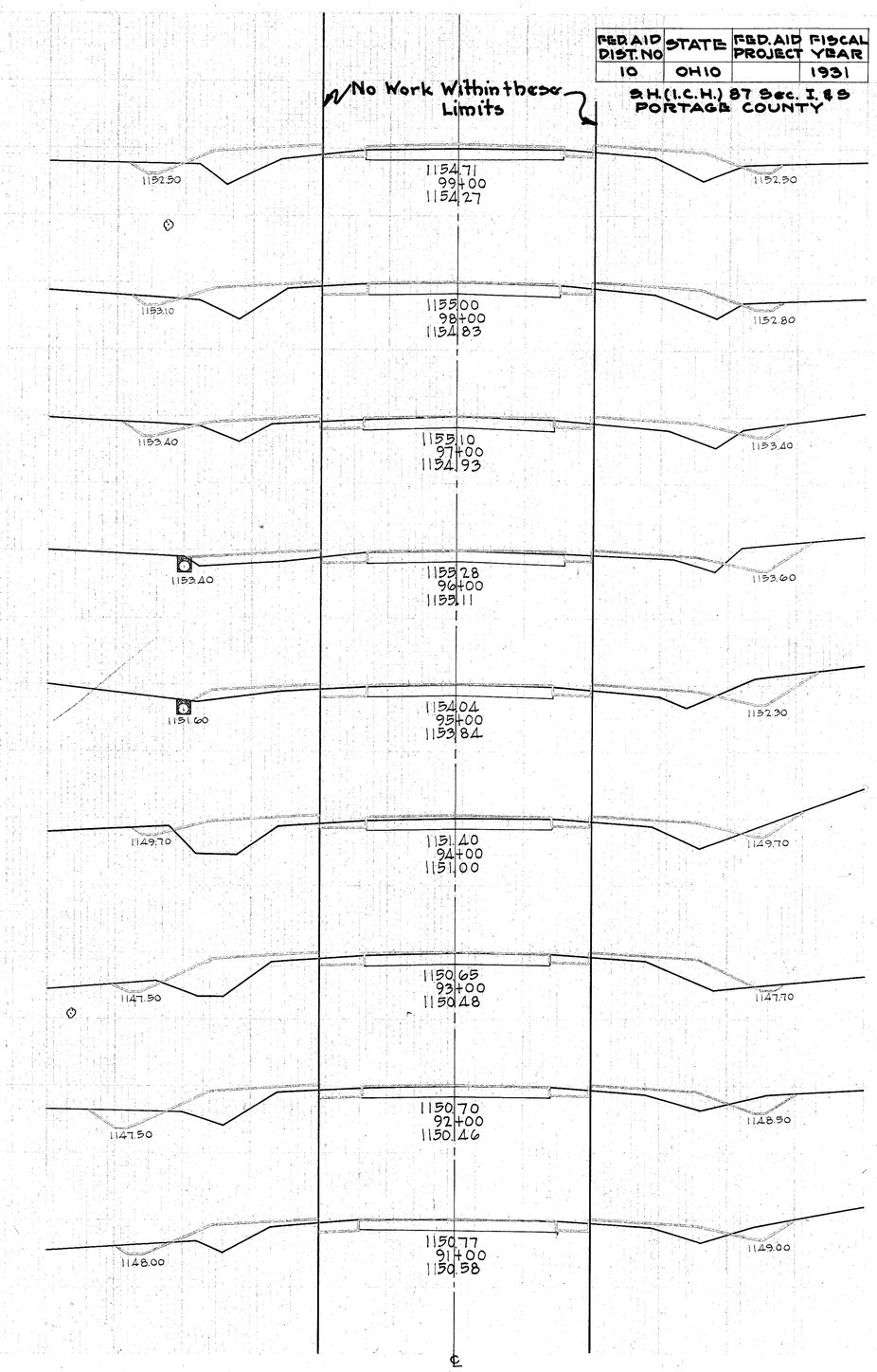
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
6	19		
		18	63
4	15		
		18	46
6	10		
		15	52
2	18		
		6	65
1	17		
		18	54
9	12		
		28	46
6	13		
		20	50
5	14		
		17	57
4	17		
		13	48

171 Cu. Yds. Exc.
514 Cu. Yds. Emb.
694 Cu. Yds. Emb. + 35%
529 Cu. Yds. Borrow



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
3	24		
		9	83
2	21		
		13	65
5	14		
		24	48
8	12		
		31	44
9	12		
		22	72
3	27		
		9	102
2	28		
		17	94
7	23		
		22	70
5	15		
		20	63

189 Cu. Yds. Exc.
715 Cu. Yds. Emb.
965 Cu. Yds. Emb. + 35%
776 Cu. Yds. Borrow



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S.H. (I.C.H.) 87 Sec. I & S
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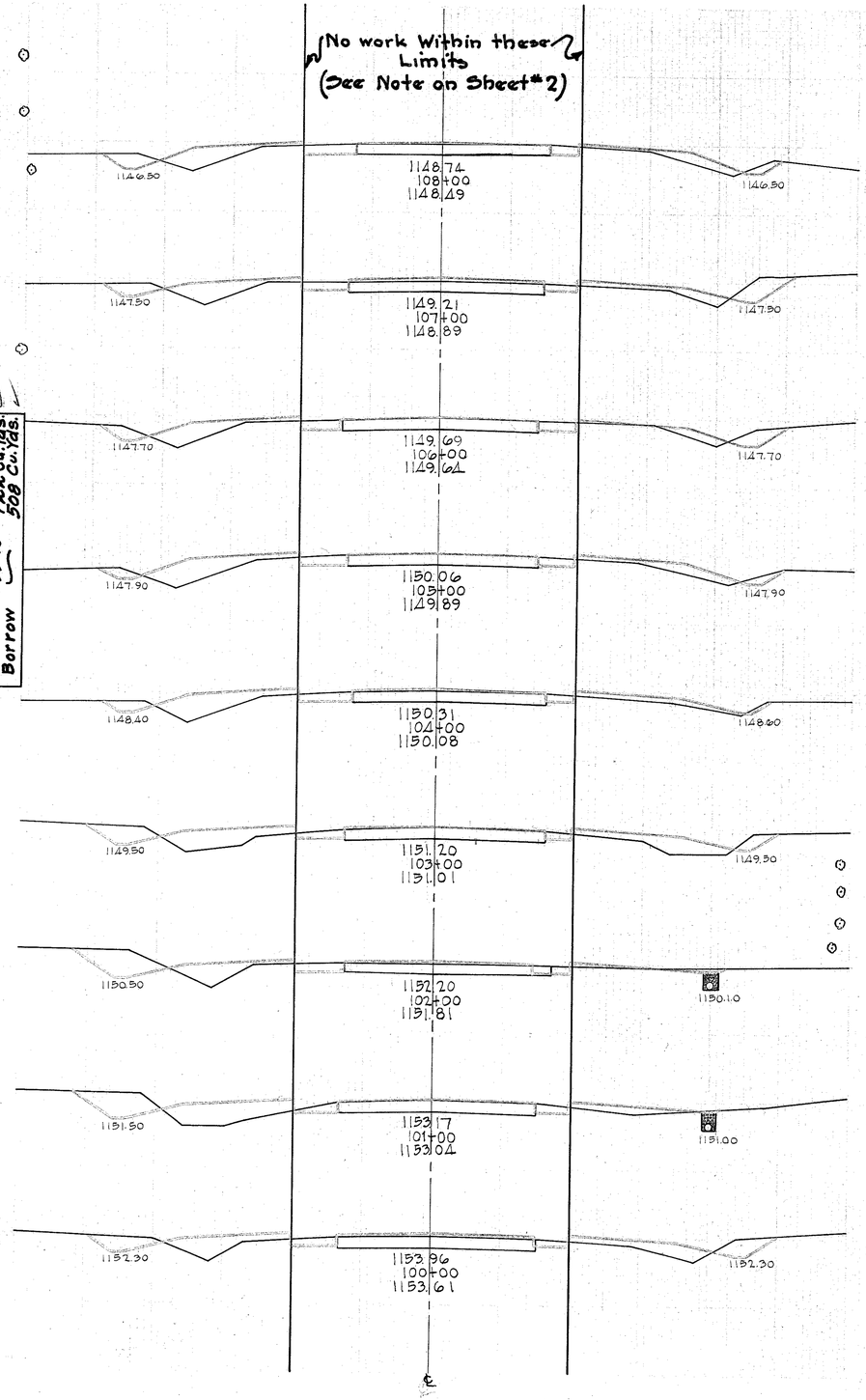
R1/30

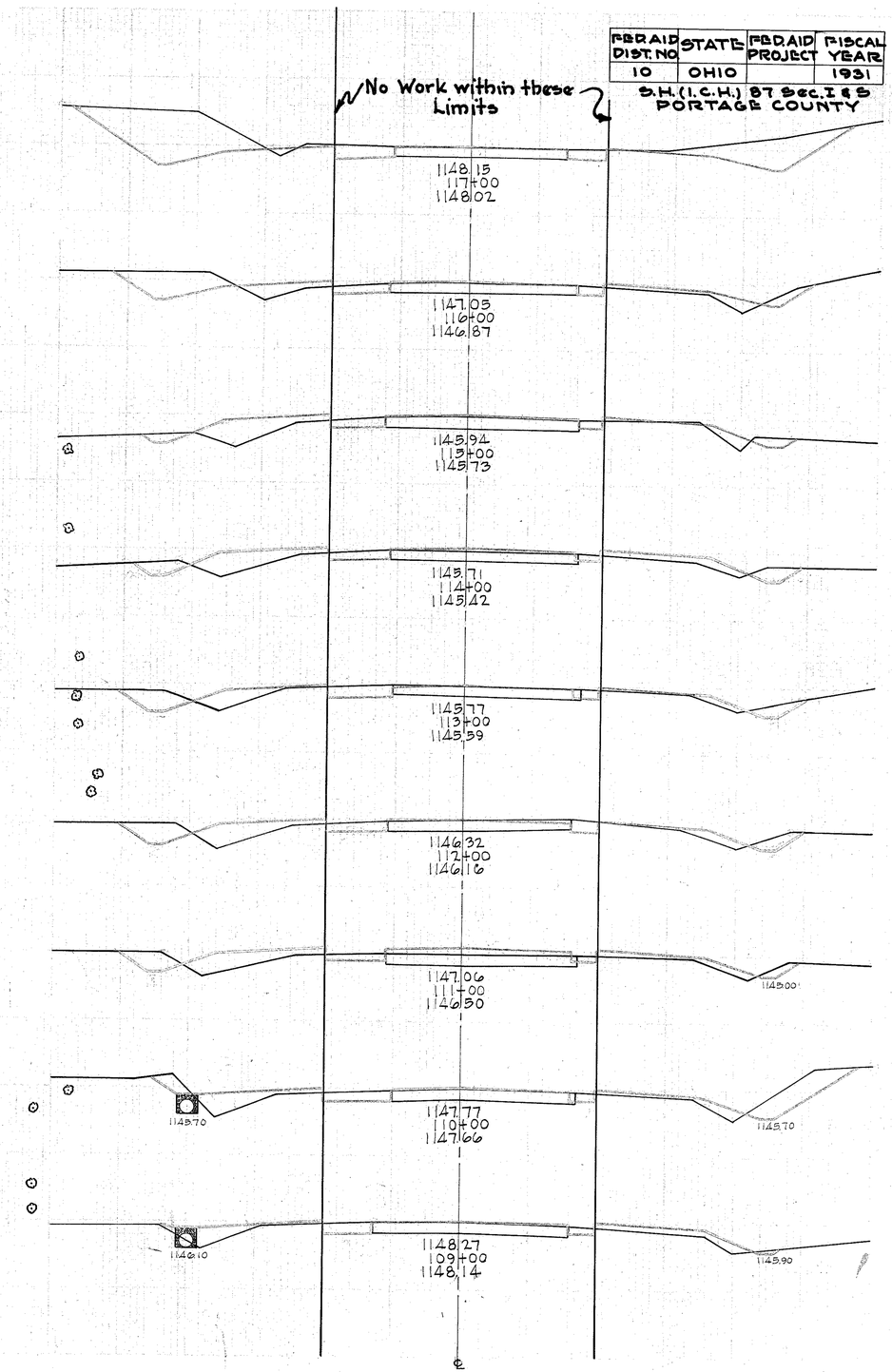
End Area Cut	End Area Fill	Cu. Yds. Exc	Cu. Yds. Emb	
3	13			
		24	54	
10	16			
		28	50	
5	11			
		13	52	214 Cu. Yds. / 535 Cu. Yds. / 722 Cu. Yds. / 508 Cu. Yds.
2	17			
		7	37	Exc. / Emb. / Emb. / Borrow / +35%
2	14			
		17	63	
7	20			
		30	50	
9	7			
		31	46	
8	18			
		31	63	
9	16			
		22	74	

No work Within these Limits (See Note on Sheet #2)



End Area Cut	End Area Fill	Cu. Yds. Exc	Cu. Yds. Emb	
53	1			
		126	19	
15	9			
		33	41	
3	13			
		15	50	538 Cu. Yds. / 310 Cu. Yds. / 848 Cu. Yds. / 120 Cu. Yds.
5	14			
		22	37	Exc. / Emb. / Emb. / Waste / +35%
7	6			
		26	31	
7	11			
		24	46	
6	14			
		35	50	
13	13			
		26	50	
1	14			
		7	50	

No Work within these Limits



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PORTAGE COUNTY

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End Area Cut	End Area Fill	Cu. Yds. Exc	Cu. Yds. Emb
2	18		
		11	68
4	19		
		19	64
6	16		
		20	54
5	13		
		43	57
18	18		
		35	56
1	12		
		24	35
12	7		
		48	18
14	3		
		68	11
23	3		
		141	7

193 Cu. Yds. Exc.
491 Cu. Yds. Emb.
+35% = 662 Cu. Yds. Emb.
469 Cu. Yds. Borrow

No Work Within these Limits
(See Note on Sheet #2)

1142.50
1143.00
126+00
1144.82
1140.40

1141.30
1143.51
125+00
1143.31
1140.00

1139.80
1142.26
124+00
1142.07
1139.80

1139.10
1141.29
123+00
1141.09
1139.00

1137.30
1141.30
122+00
1141.56
1137.60

1139.11
1141.81
121+00
1141.63
1139.60

1141.50
1143.28
120+00
1142.91
1141.50

1143.70
1145.28
119+00
1145.19
1143.70

1143.60
1147.28
118+00
1147.11
1145.60

℄

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
13	14		
		7	17
	16		
		1	41
1	16		
		4	57
1	15		
		4	56
1	15		
		9	37
4	5		
		7	24
27	8		
		16	33
3	10		
3	10		
		13	43
5	13		
		13	57

129 Cu. Yds. Exc.
733 Cu. Yds. Emb.
+35% 990 Cu. Yds. Emb.
861 Cu. Yds. Borrow

No Work Within these Limits

1144.30
1147.22
134+00
1146.56
1143.90

1147.12
133+70
1146.30

1144.00
1146.91
133+00
1146.43

1143.90
1146.76
132+00
1146.41

1143.80
1146.64
131+00
1146.47

1143.80
1146.32
130+00
1146.33

1146.40
129+00
1146.85

1146.27
128+00
1148.08

1143.80
1146.04
127+00
1146.32

℄

Sta. 135+00 to 152+00

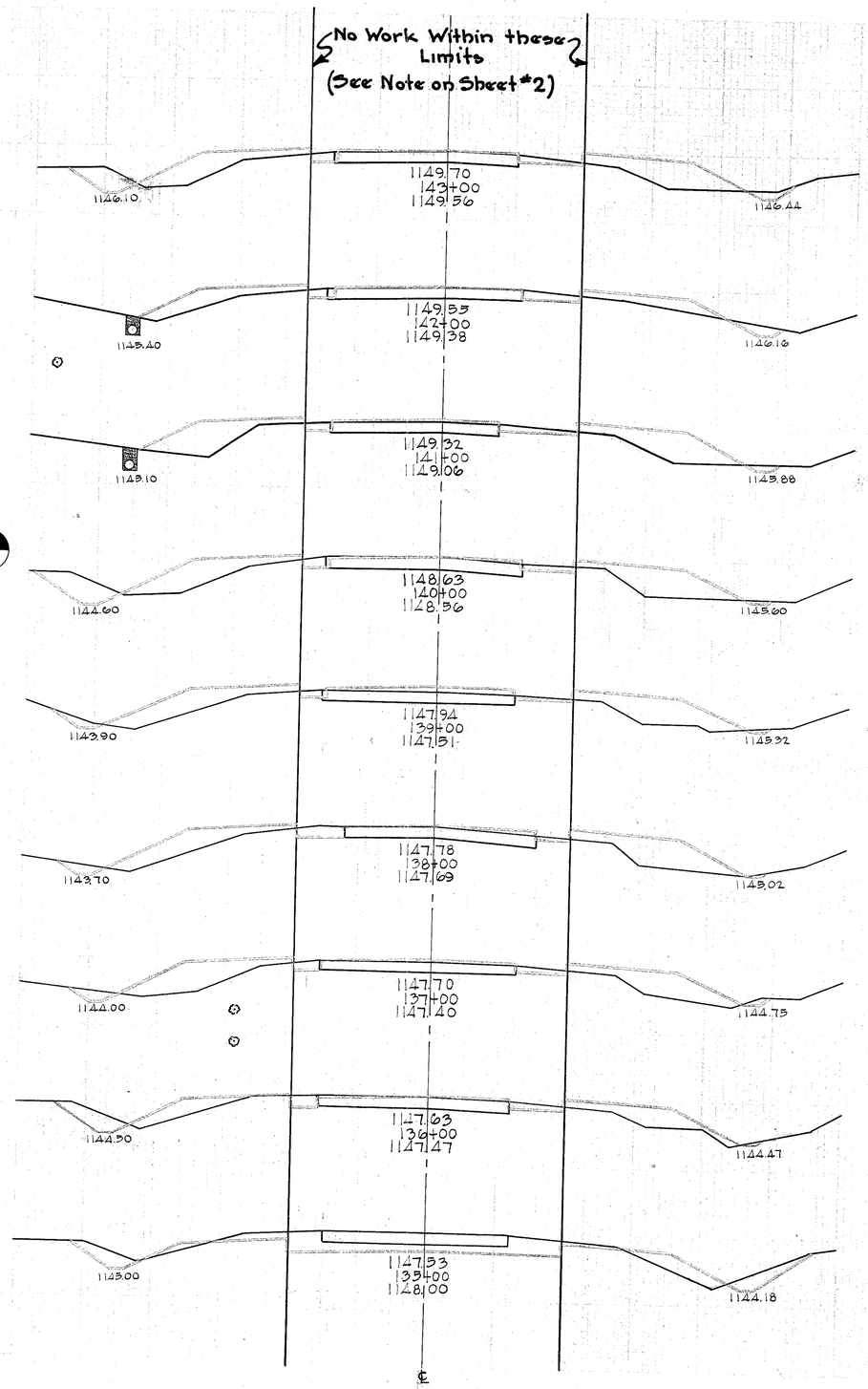
FED. AID DIST. NO.	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		1931

S.H. (I.C.H.) 87 Sec. I & S
PORTAGE COUNTY

83/36

End Area Cut	End Area Fill	C.U. Yds. Exc.	C.U. Yds. Emb.
6	29		
		15	85
2	17		
		6	85
1	29		
		15	111
7	31		
		15	117
1	32		
		6	113
2	29		
		7	113
2	32		
		15	93
6	18		
		24	48
7	8		
		37	41

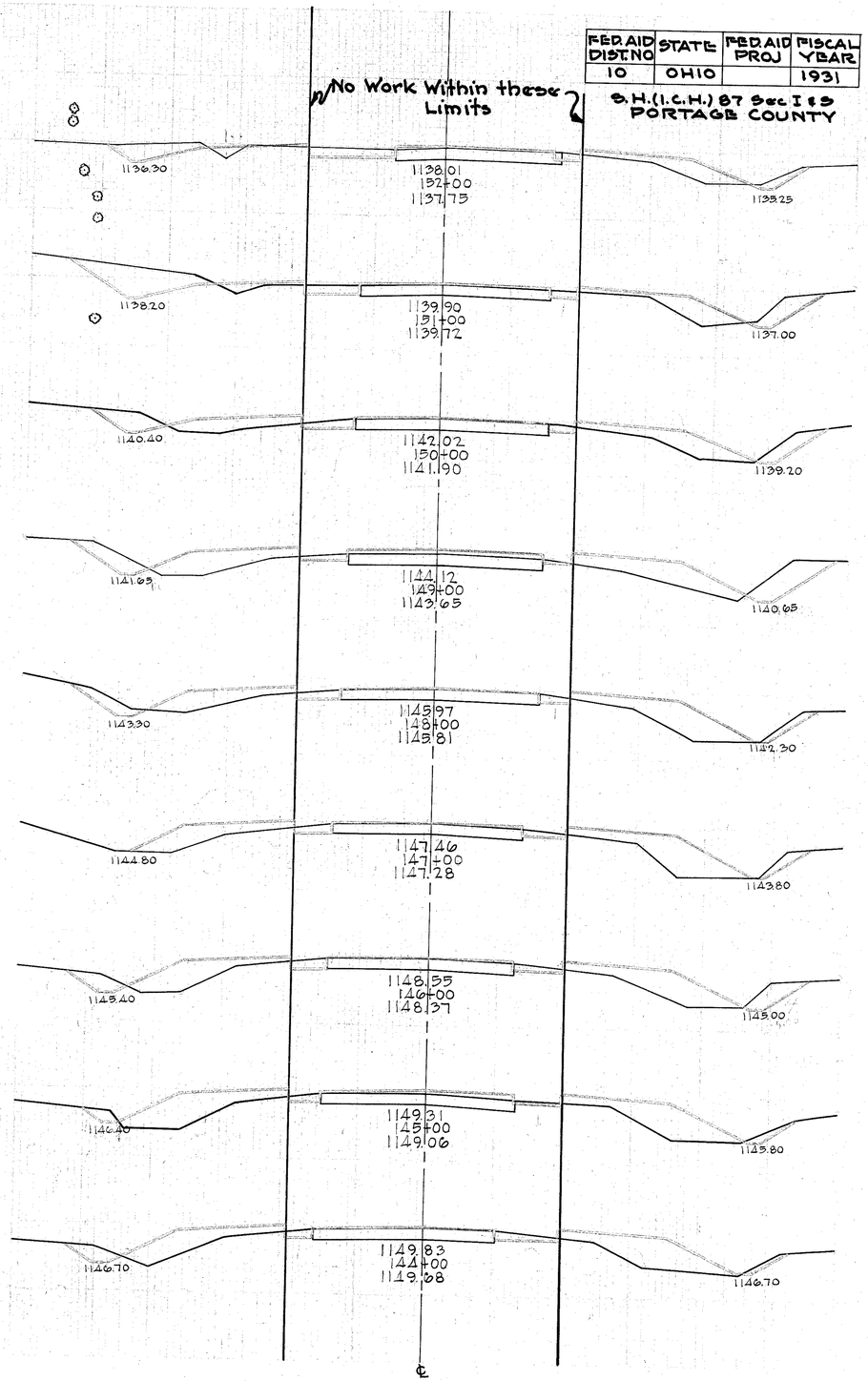
No Work Within these Limits
(See Note on Sheet #2)



End Area Cut	End Area Fill	C.U. Yds. Exc.	C.U. Yds. Emb.
7	10		
		48	41
19	12		
		52	59
9	20		
		43	93
14	30		
		35	106
5	27		
		13	106
2	30		
		17	111
7	30		
		17	120
2	33		
		11	122
4	31		
		18	111

Exc. 190 Cu. Yds.
Emb. 1050 Cu. Yds.
Emb. +35% = 1417 Cu. Yds.
Borrow 1227 Cu. Yds.

No Work Within these Limits



Sta. 135+00 to 152+00

FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

S.H. (I.C.H.) 87 Sec I. & S.
PORTAGE COUNTY

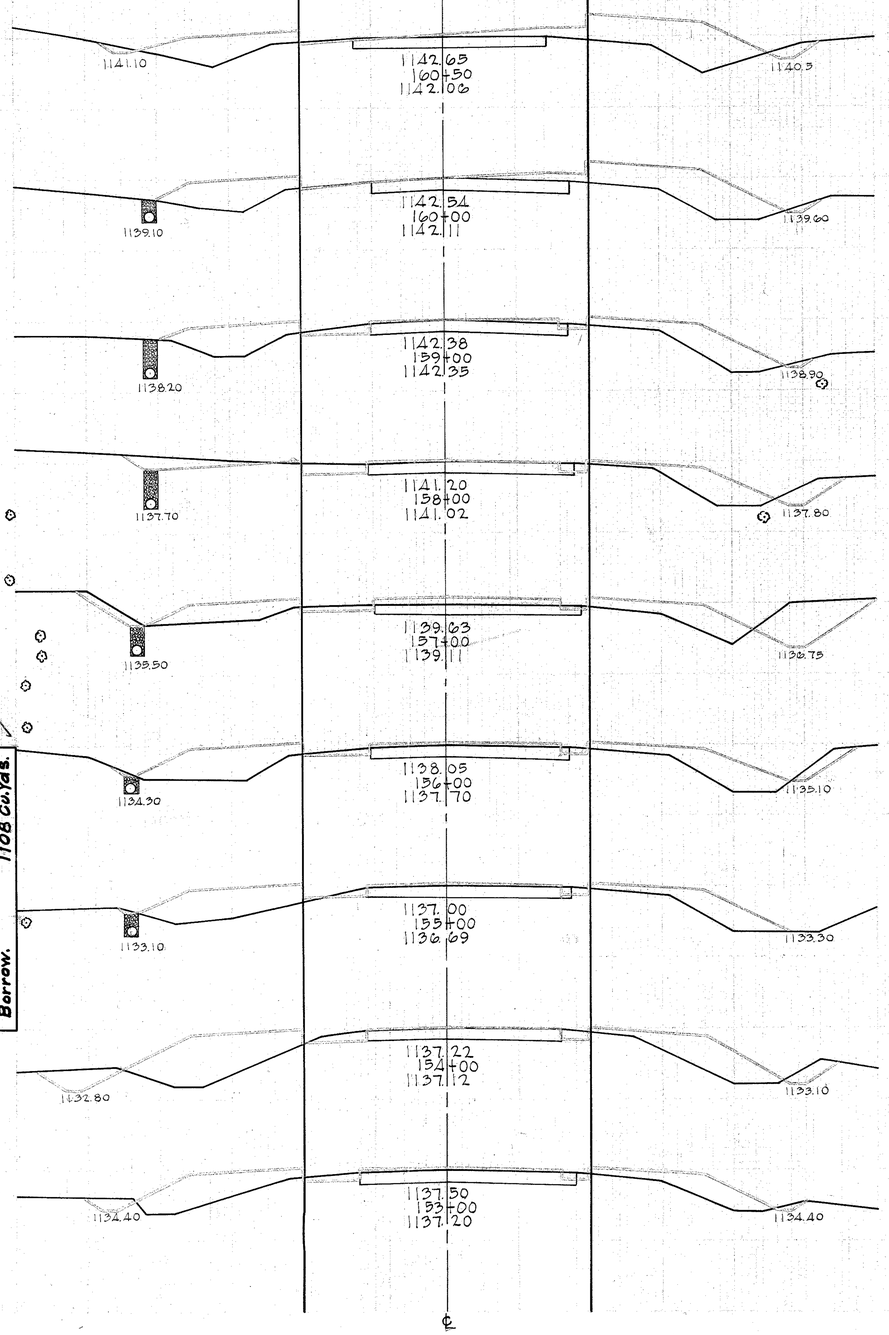
24/36

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
3	47		
		4	84
1	44		
		2	141
3	32		
		17	85
9	14		
		50	72
18	25		
		37	115
2	37		
		4	131
	34		
		13	150
7	47		
		17	143
2	30		
		18	74

257 Cu. Yds.
1011 Cu. Yds.
+35% 1365 Cu. Yds.
1108 Cu. Yds.

Exc.
Emb.
Emb.
Borrow.

No Work Required within these Limits (See Note on Sheet #2)

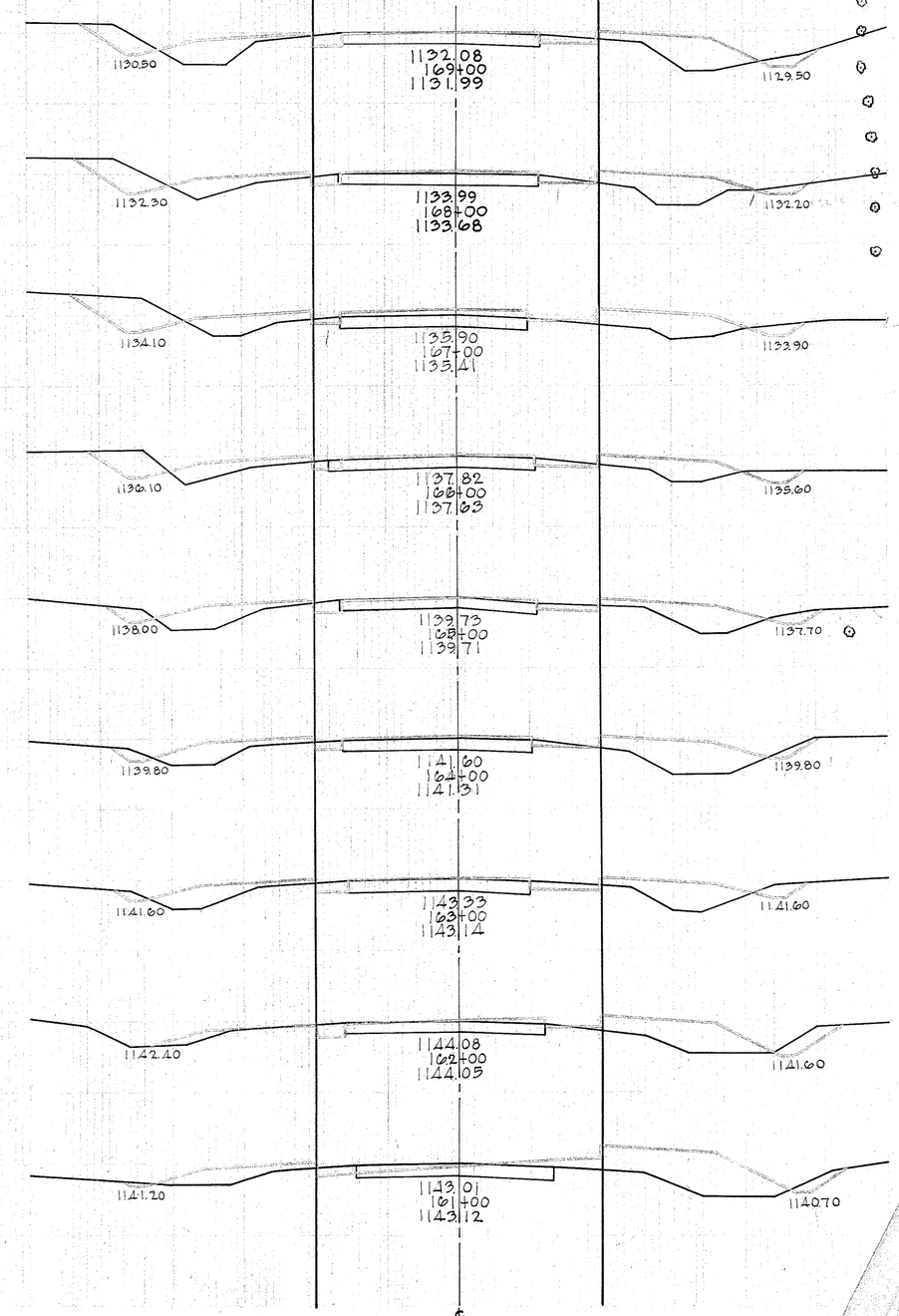


End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb
8	25		
		30	89
8	23		
		39	83
13	22		
		41	76
9	19		
		24	78
4	23		
		11	98
2	30		
		9	100
3	24		
		11	80
3	19		
		9	106
2	38		
		5	79

818 Cu. Yds.
966 Cu. Yds.
+35% 1304 Cu. Yds.
1086 Cu. Yds.

Exc.
Emb.
Emb.
Borrow.

No Work Required Within these Limits



FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

S.H. (I.C.H.) 87 Sec. I & S
PORTAGE COUNTY

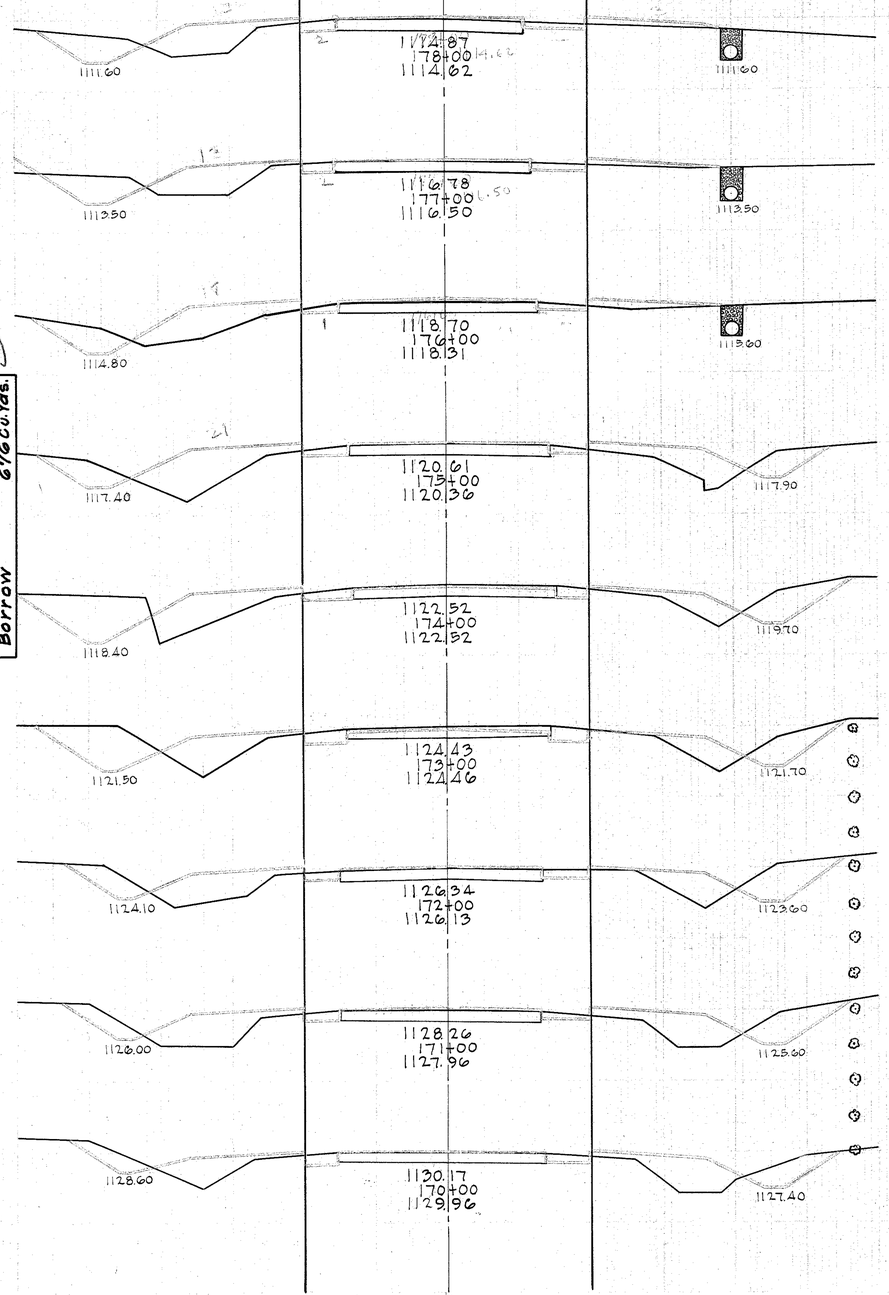
25/36

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
10	17		
		32	59
10	15		
		33	70
8	23		
		41	107
14	35		
		78	109
28	24		
		94	80
23	19		
		74	80
17	24		
		57	100
14	30		
		46	102
11	25		
		35	93

546 Cu. Yds.
905 Cu. Yds.
+35% = 1222 Cu. Yds.
676 Cu. Yds.

Exc.
Emb.
Emb.
Borrow

No Work Within these Limits
(See Note on Sheet #2)

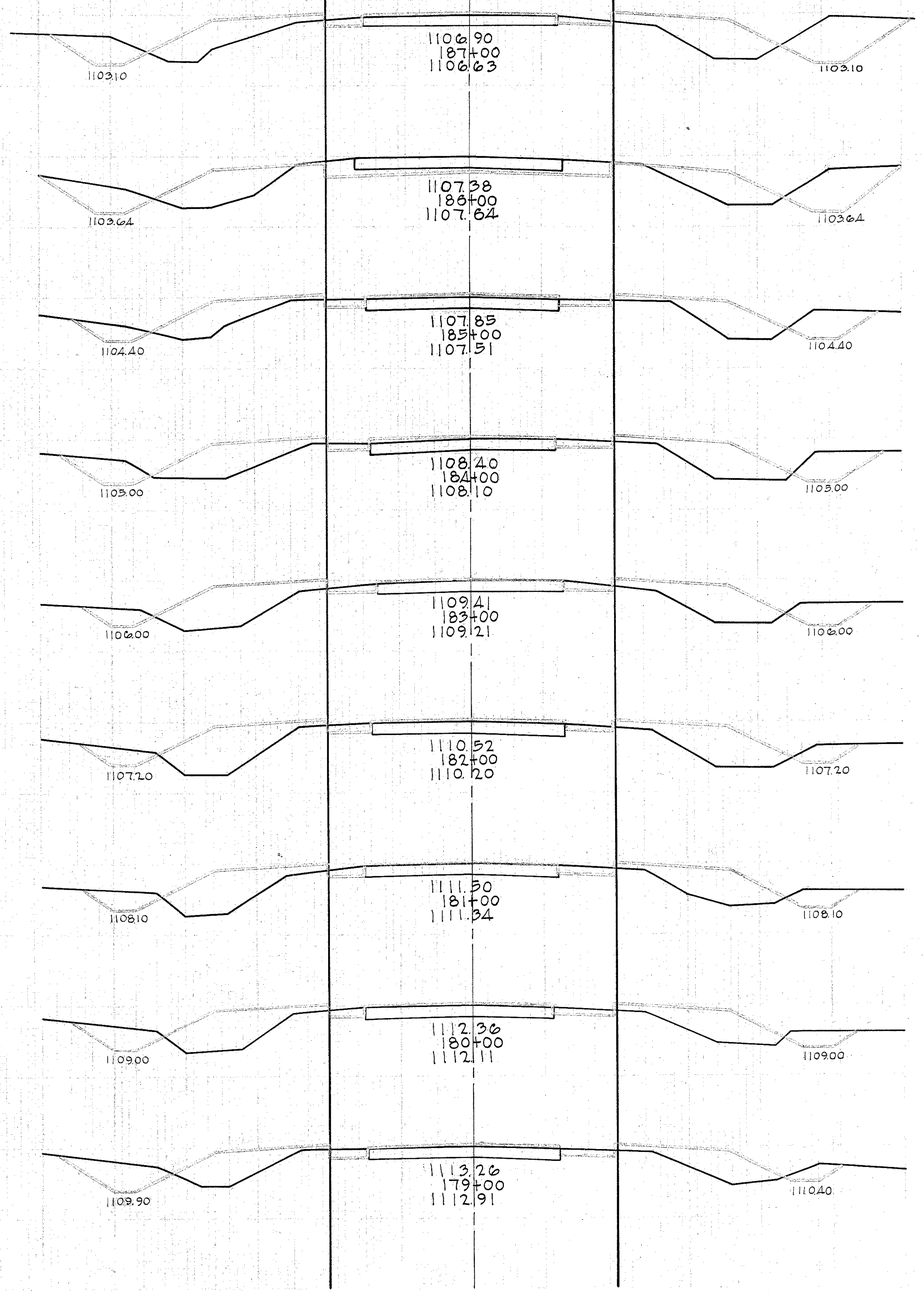


End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
24	33		
		87	113
23	28		
		67	102
13	27		
		54	113
16	34		
		48	39
10	41		
		33	150
8	40		
		30	135
8	33		
		33	124
10	34		
		43	113
13	28		
		43	83

542 Cu. Yds.
1207 Cu. Yds.
+35% = 1629 Cu. Yds.
1087 Cu. Yds.

Exc.
Emb.
Emb.
Borrow

No Work within these Limits



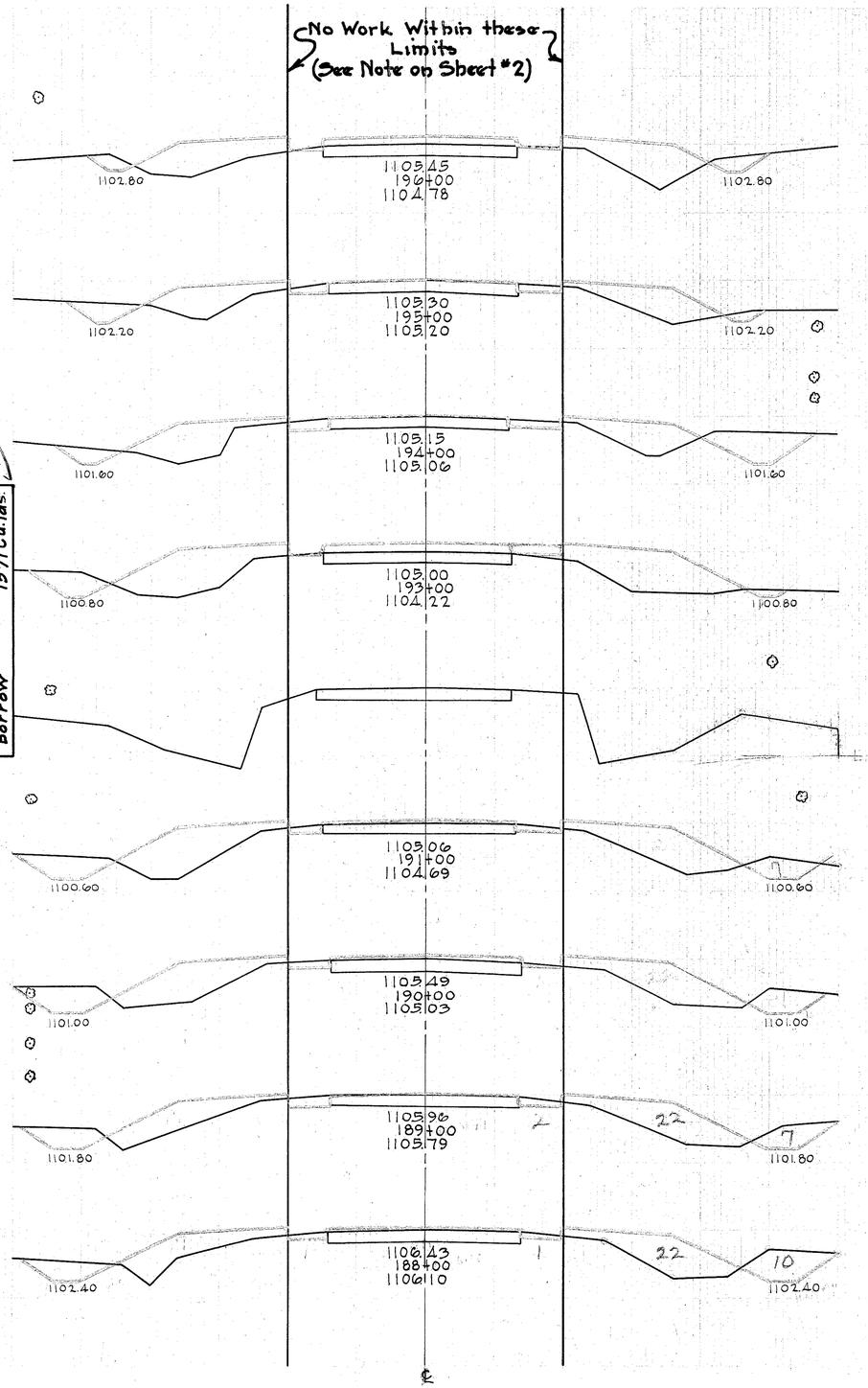
FED AID DIST. NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO		1931

26/36

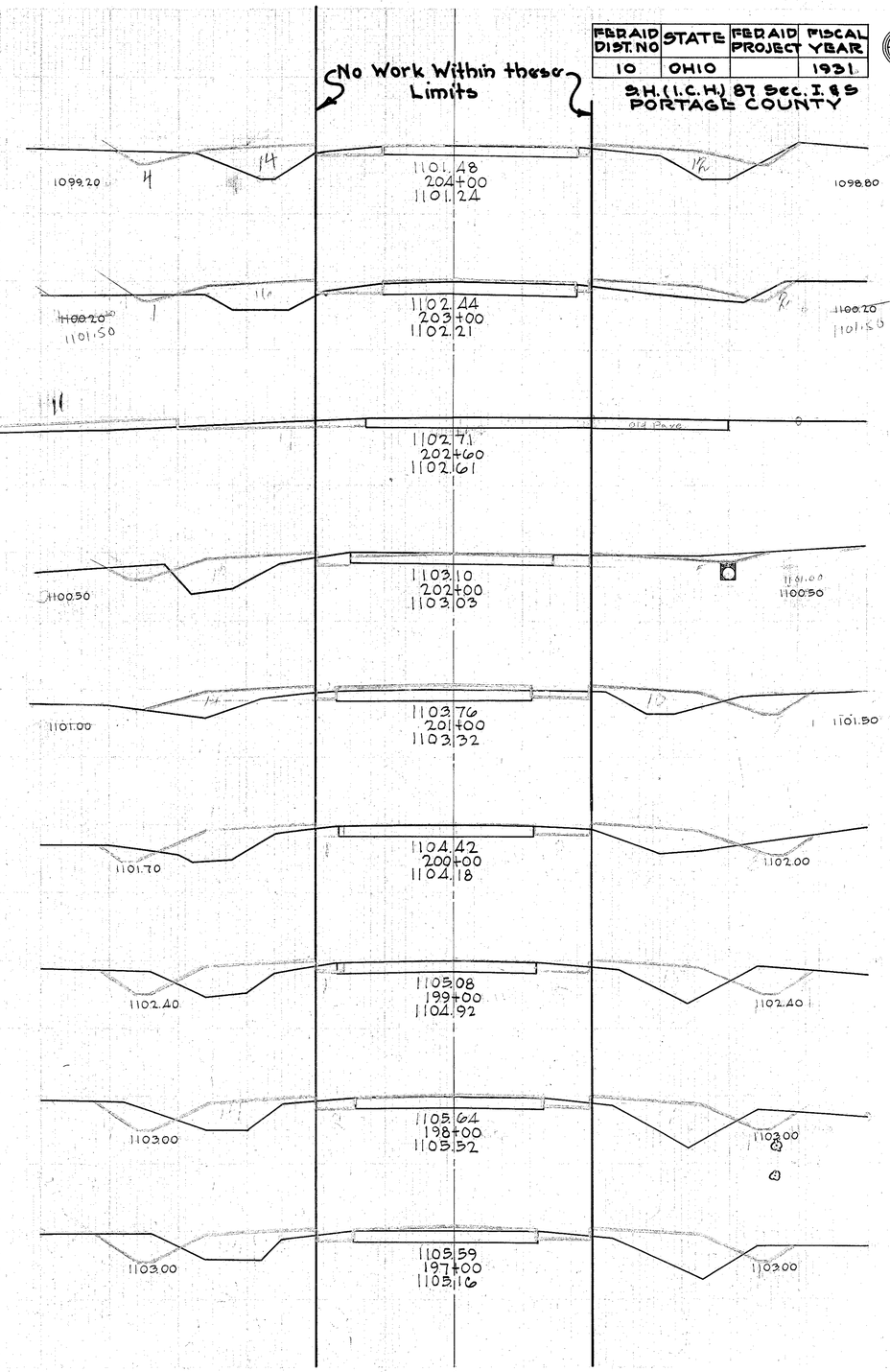
S.H. (I.C.H.) 87 Sec. I & S
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
5	37		
		20	128
6	32		
		41	118
16	32		
		44	167
8	58		
		85	396
15	49		
		59	172
17	44		
		57	154
14	39		
		57	144
17	39		
		76	133

Exc. 297 Cu. Yds.
Emb. 457 Cu. Yds.
Emb. 1968 Cu. Yds.
Borrow 1571 Cu. Yds.
+35%



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
5	26		
		15	96
3	26		
		2	27
	11		
		8	29
8	15		
		24	72
5	24		
		18	96
5	28		
		33	106
13	29		
		44	113
11	33		
		41	124
11	34		
		30	131



FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

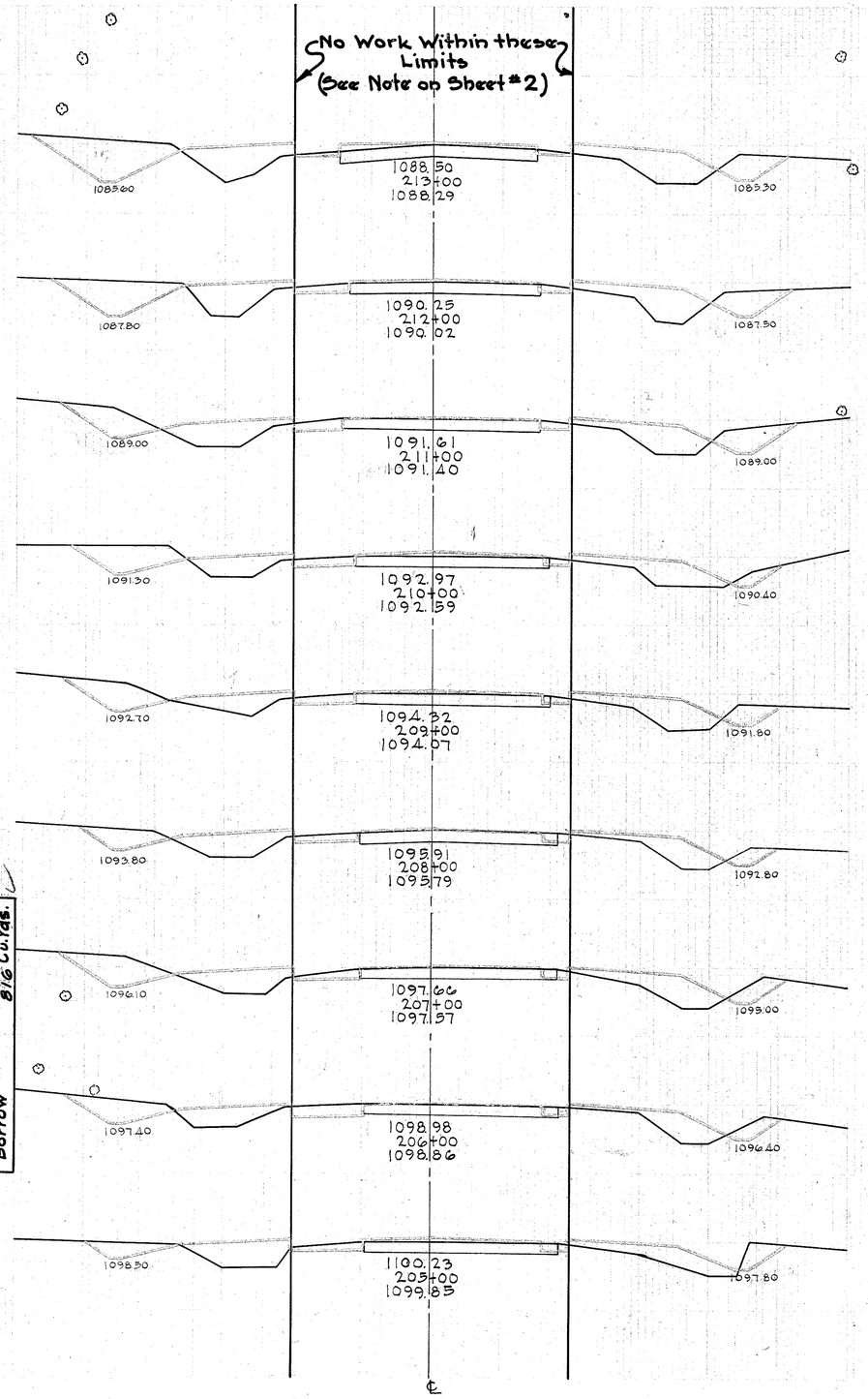
27/36

S.H. (I.C.H.) 87 Sec. I & S.
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
23	29		
		76	107
18	29		
		61	98
15	24		
		54	83
14	21		
		50	87
13	26		
		39	89
8	22		
		41	87
14	25		
		48	80
12	18		
		39	78
9	24		
		26	93

310 Cu. Yds.
834 Cu. Yds.
+35% 1126 Cu. Yds.
816 Cu. Yds.

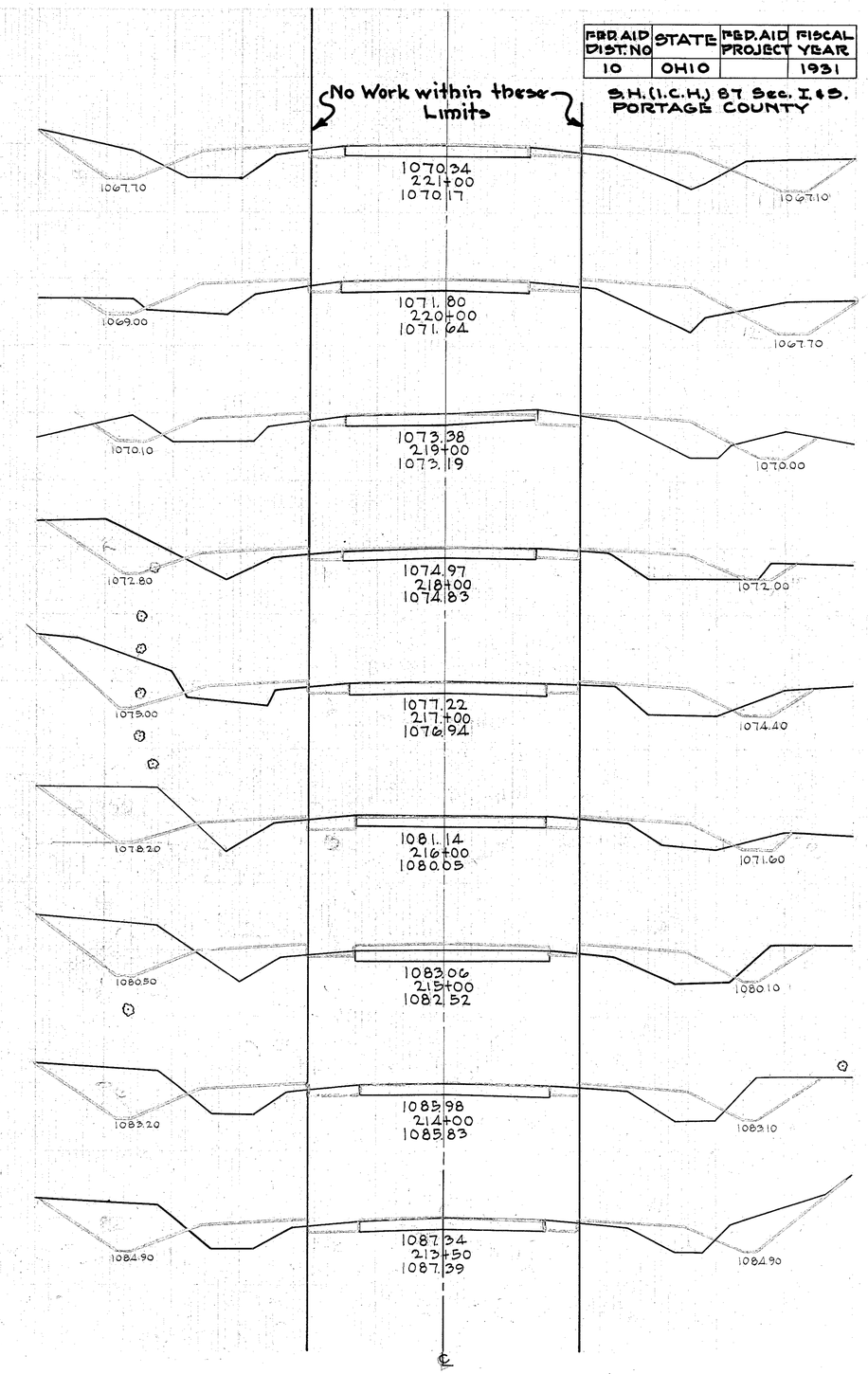
Exc.
Emb.
Emb.
Borrow



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
23	30		
		70	120
15	35		
		48	120
11	30		
		54	100
21	24		
		100	87
33	23		
		120	85
32	23		
		126	100
36	31		
		137	106
38	26		
		75	47
43	25		
		61	50

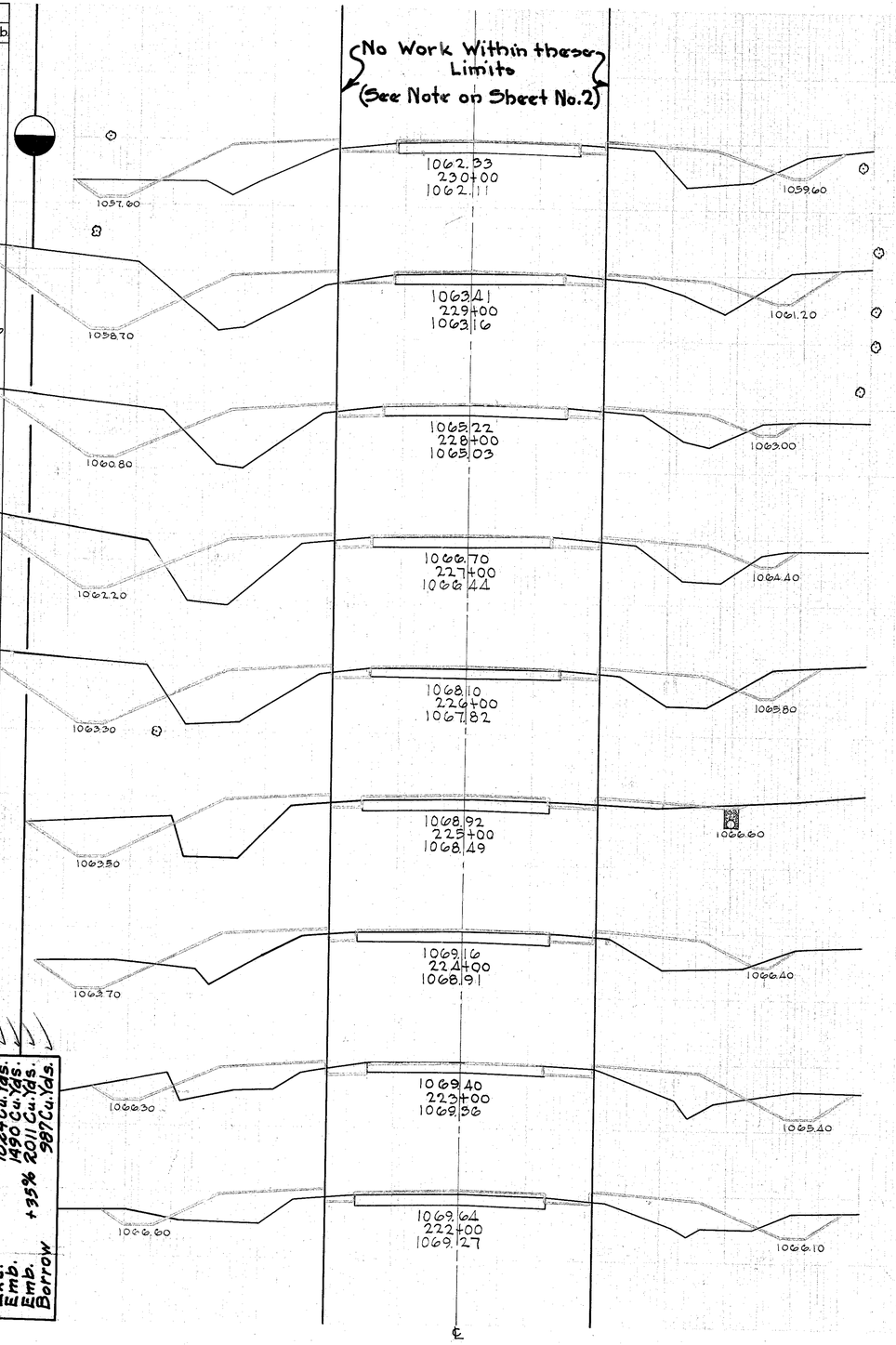
912 Cu. Yds.
983 Cu. Yds.
+35% 1327 Cu. Yds.
415 Cu. Yds.

Exc.
Emb.
Emb.
Borrow



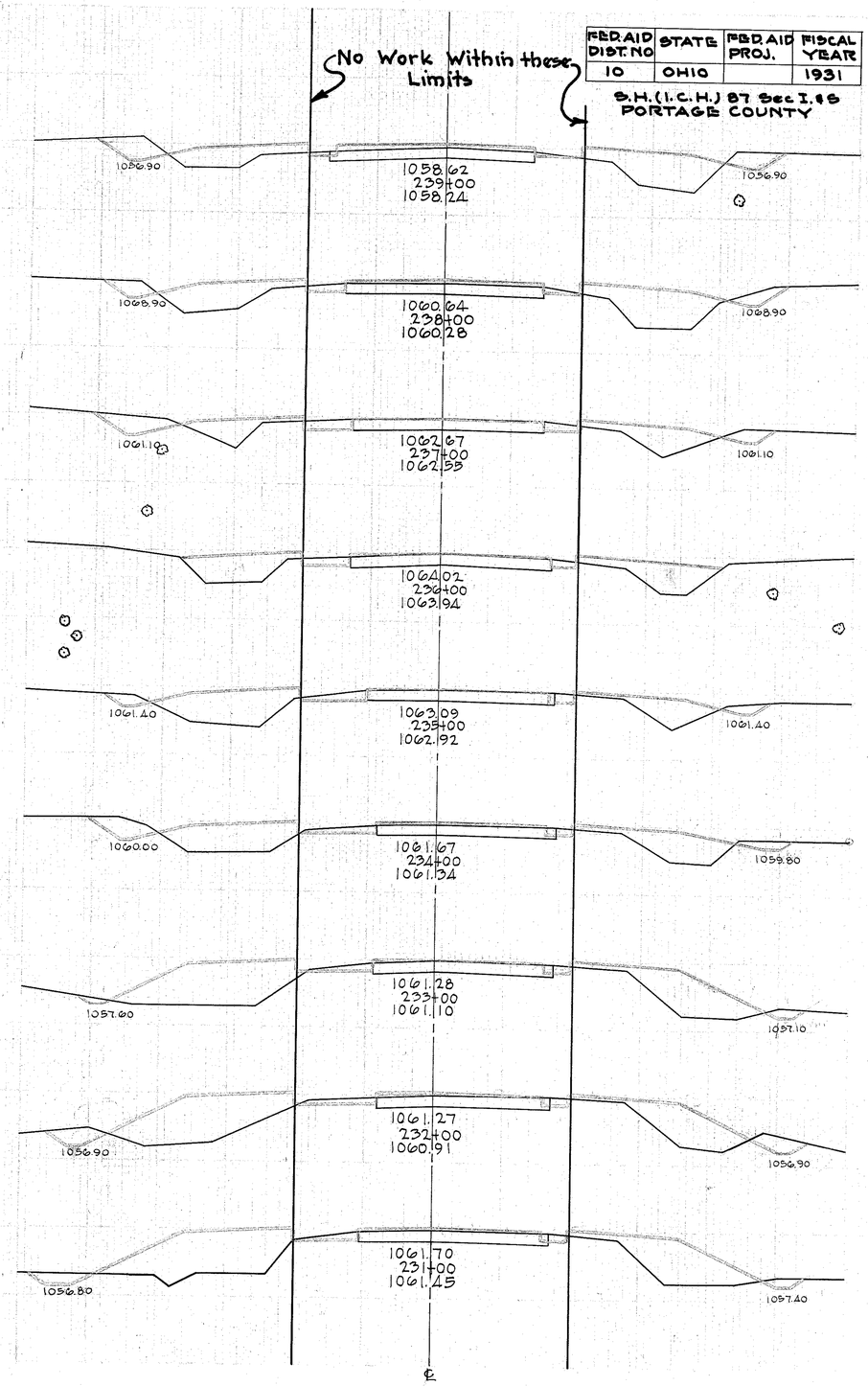
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
9	46		
		118	161
55	41		
		168	156
36	43		
		148	176
44	52		
		170	185
48	48		
		128	150
21	33		
		63	137
13	41		
		54	144
16	37		
		46	137
9	37		
		59	124

Exc. 1024 Cu. Yds.
Emb. 1490 Cu. Yds.
Emb. +35% 2011 Cu. Yds.
Borrow 987 Cu. Yds.



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
7	31		
		20	122
4	35		
		18	100
6	19		
		11	87
	28		
		6	109
3	31		
		17	118
6	33		
		13	163
1	55		
		13	198
6	52		
		17	187
3	49		
		22	176

Exc. 189 Cu. Yds.
Emb. 1357 Cu. Yds.
Emb. +35% 1824 Cu. Yds.
Borrow 1635 Cu. Yds.



FED. AID DIST. NO	STATE	FED. AID PROJ.	FISCAL YEAR
10	OHIO		1931

S.H. (I.C.H.) 87 Sec. I. & S
PORTAGE COUNTY

28
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FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

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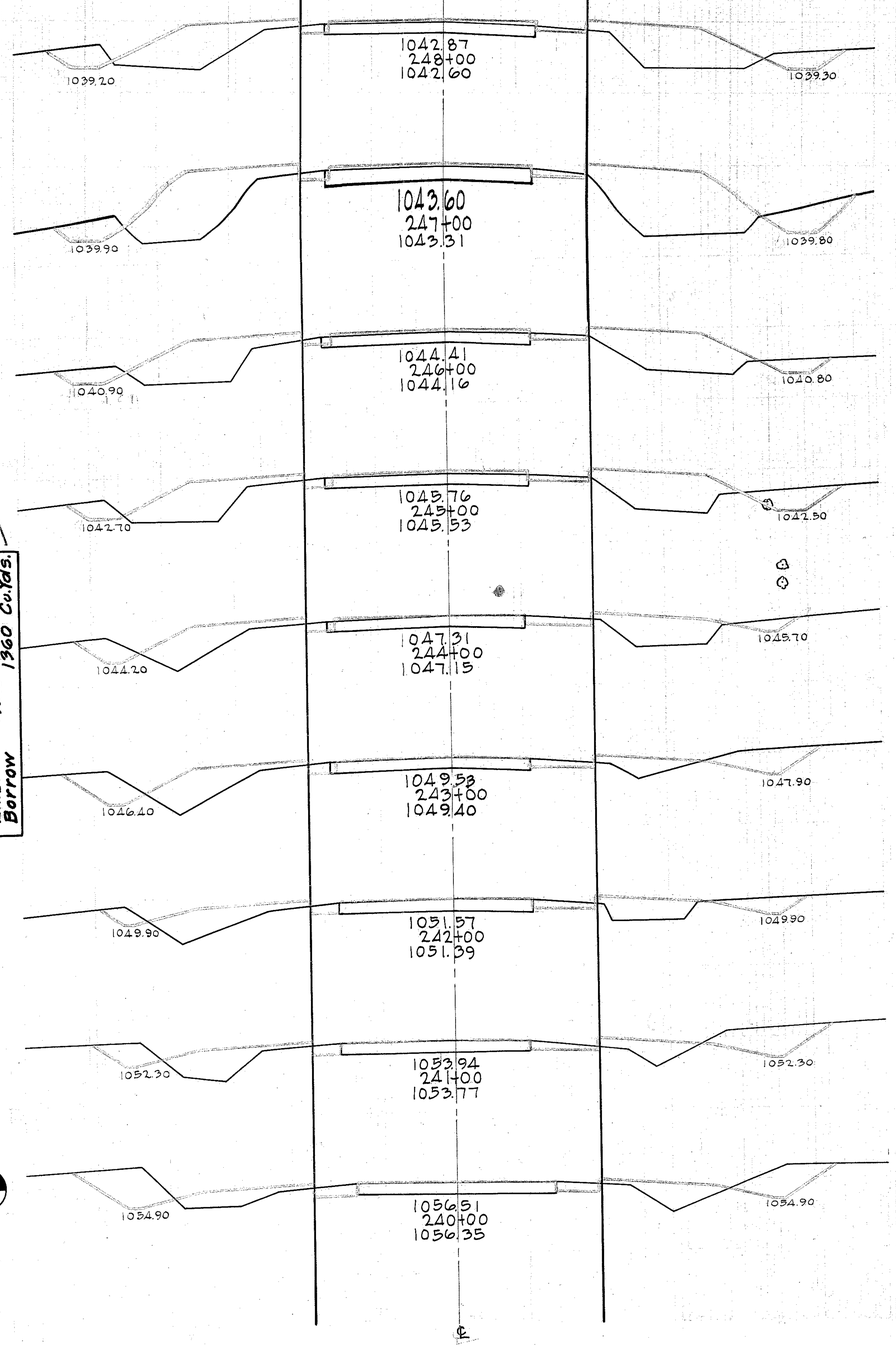
S.H. (I.C.H.) 87 Sec. I. 85
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
9	47		
		31	182
8	51		
		28	185
7	49		
		32	165
10	40		
		30	130
6	30		
		37	94
14	21		
		39	82
7	23		
		43	76
16	18		
		68	67
21	18		
		52	91

398 Cu. Yds. Exc.
1302 Cu. Yds. Emb.
+35% 1758 Cu. Yds. Emb.
1360 Cu. Yds. Borrow

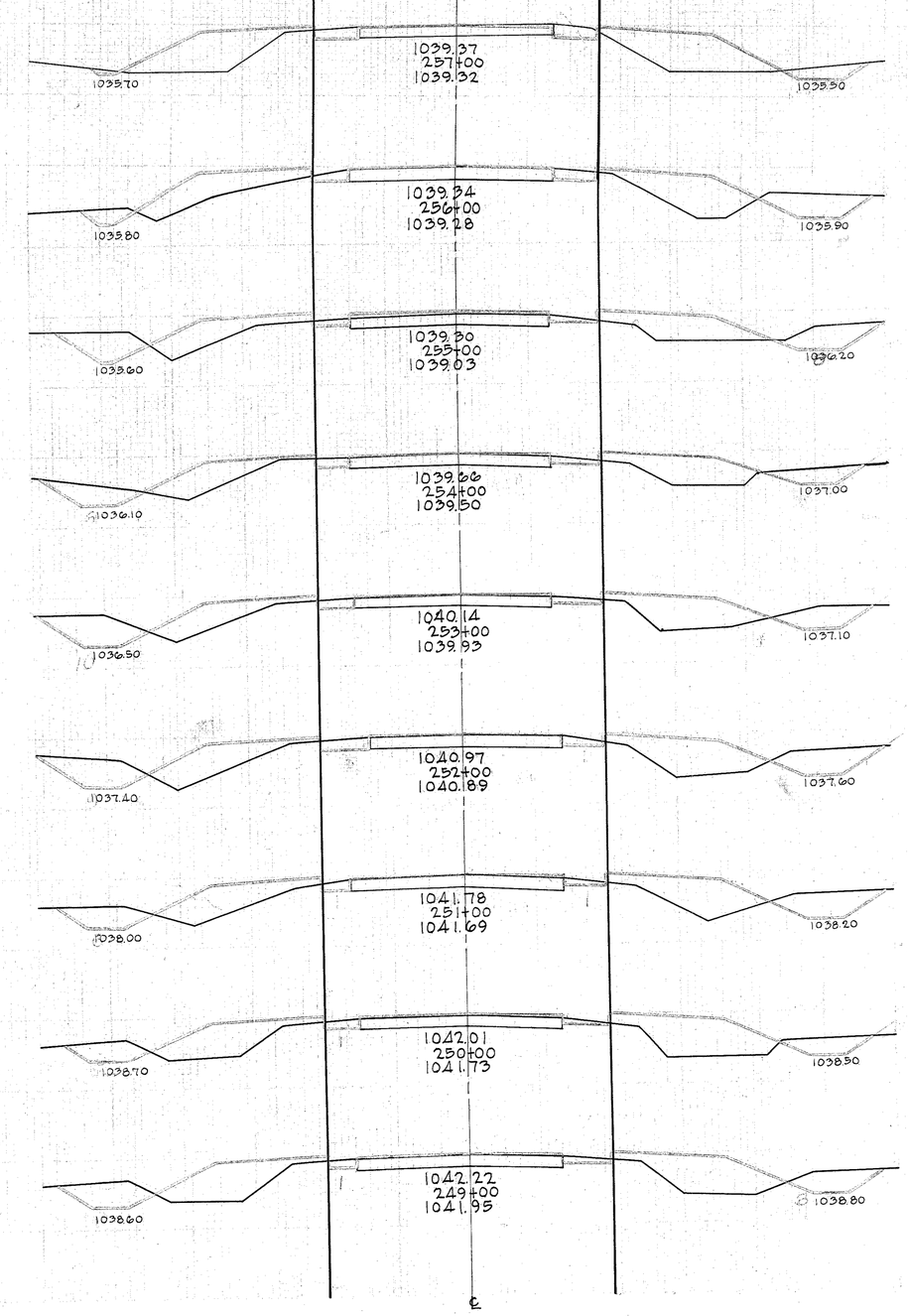
No Work Within these Limits
(See Note on Sheet #2)



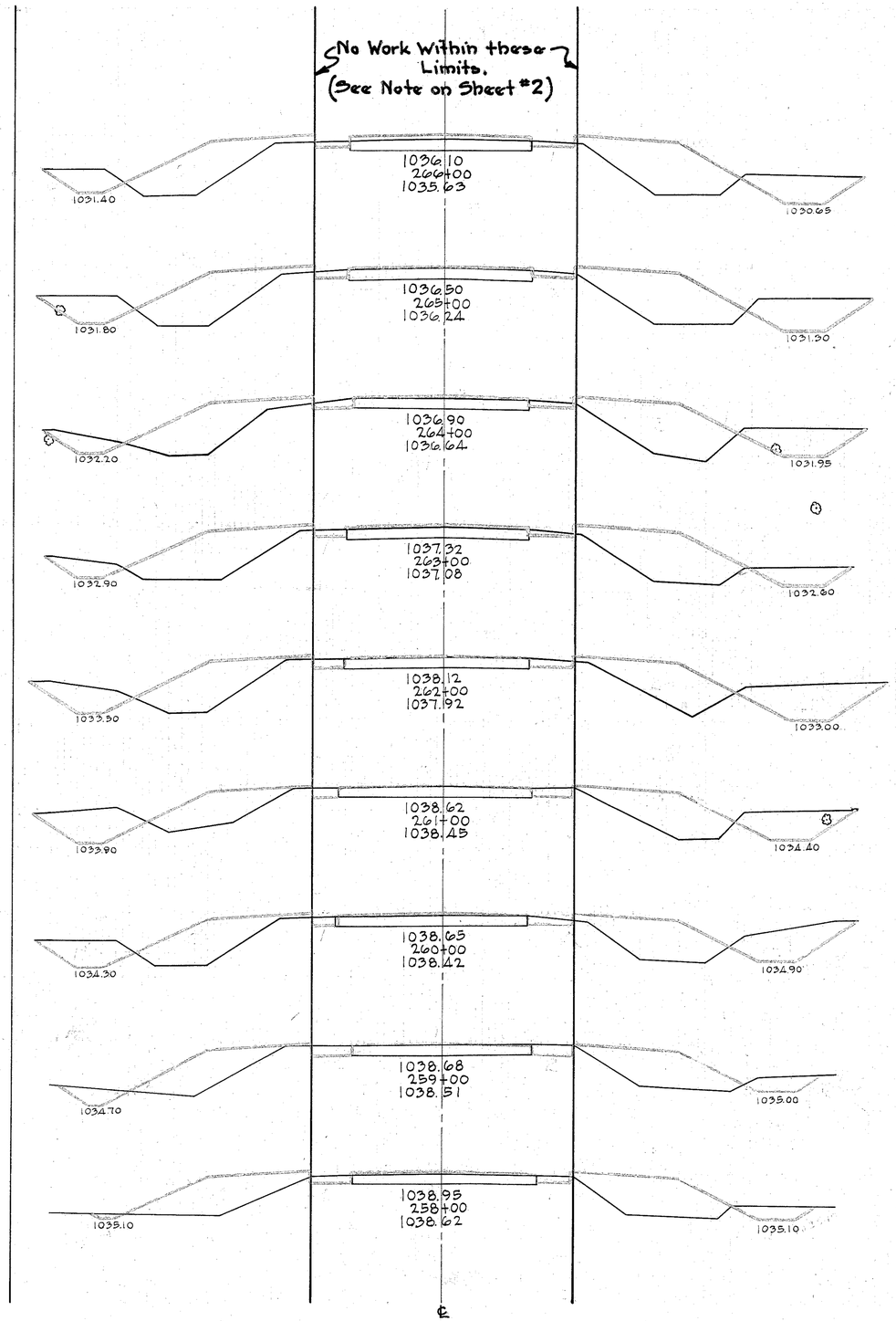
End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
5	42		
		14	139
7	33		
		44	117
17	30		
		52	109
11	29		
		52	111
17	31		
		65	128
18	38		
		163	137
16	36		
		48	144
10	42		
		46	156
15	42		
		44	165

424 Cu. Yds. Exc.
246 Cu. Yds. Emb.
+35% 1007 Cu. Yds. Borrow
583 Cu. Yds.

No Work Within these Limits



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
25	60		
		107	274
33	88		
		102	276
22	61		
		70	233
16	65		
		98	211
37	49		
		132	174
34	45		
		119	172
30	48		
		80	174
13	46		
		41	181
9	52		
		31	174



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
16	78		
		63	298
18	83		
		30	180
9	79		
		34	189
21	91		
		80	248
33	77		
		128	283
36	76		
		124	269
31	69		
		104	254
25	68		
		80	256
18	70		
		80	241

FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

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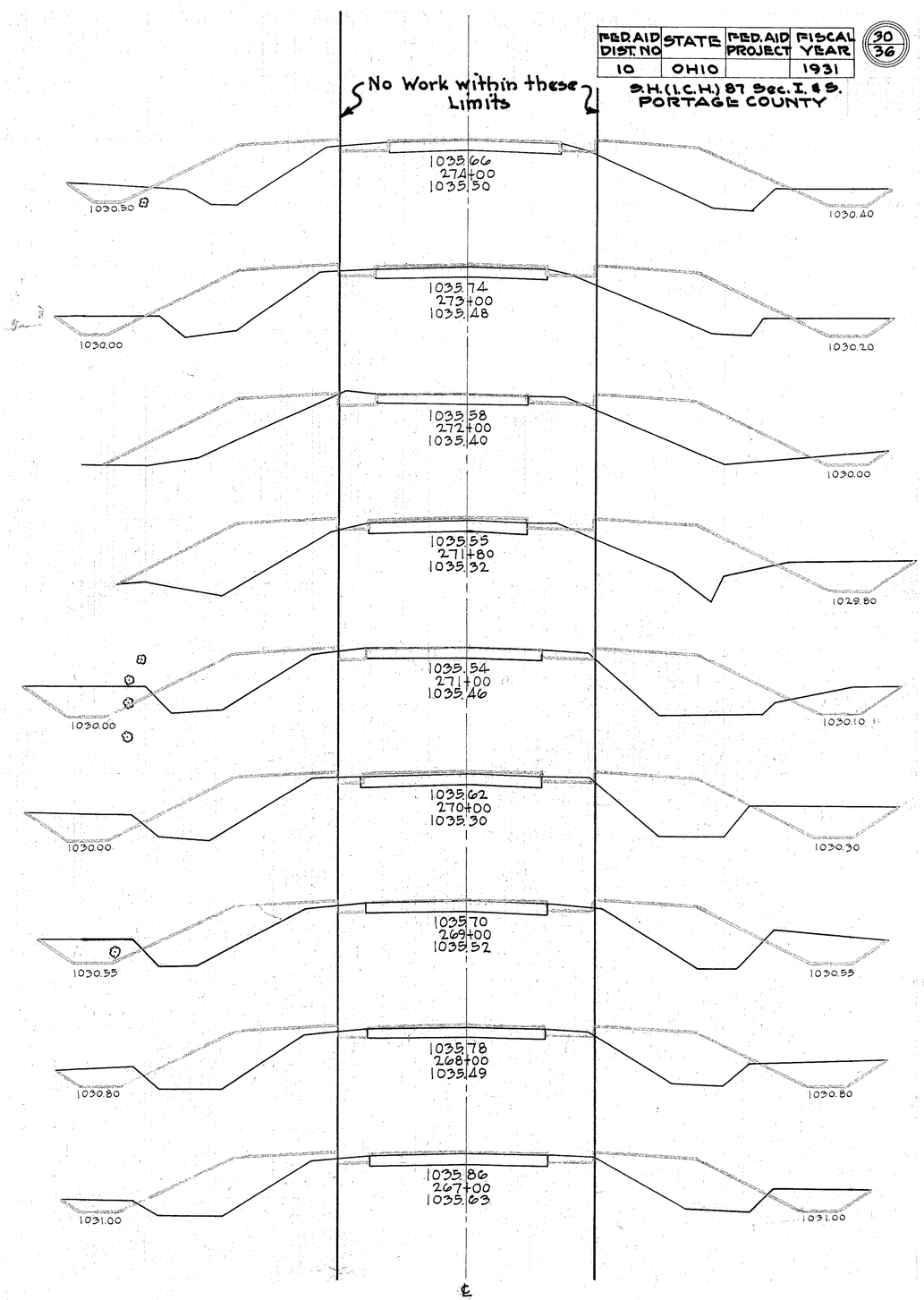
36

S.H. (I.C.H.) 87 Sec. I. & S.
PORTAGE COUNTY



FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

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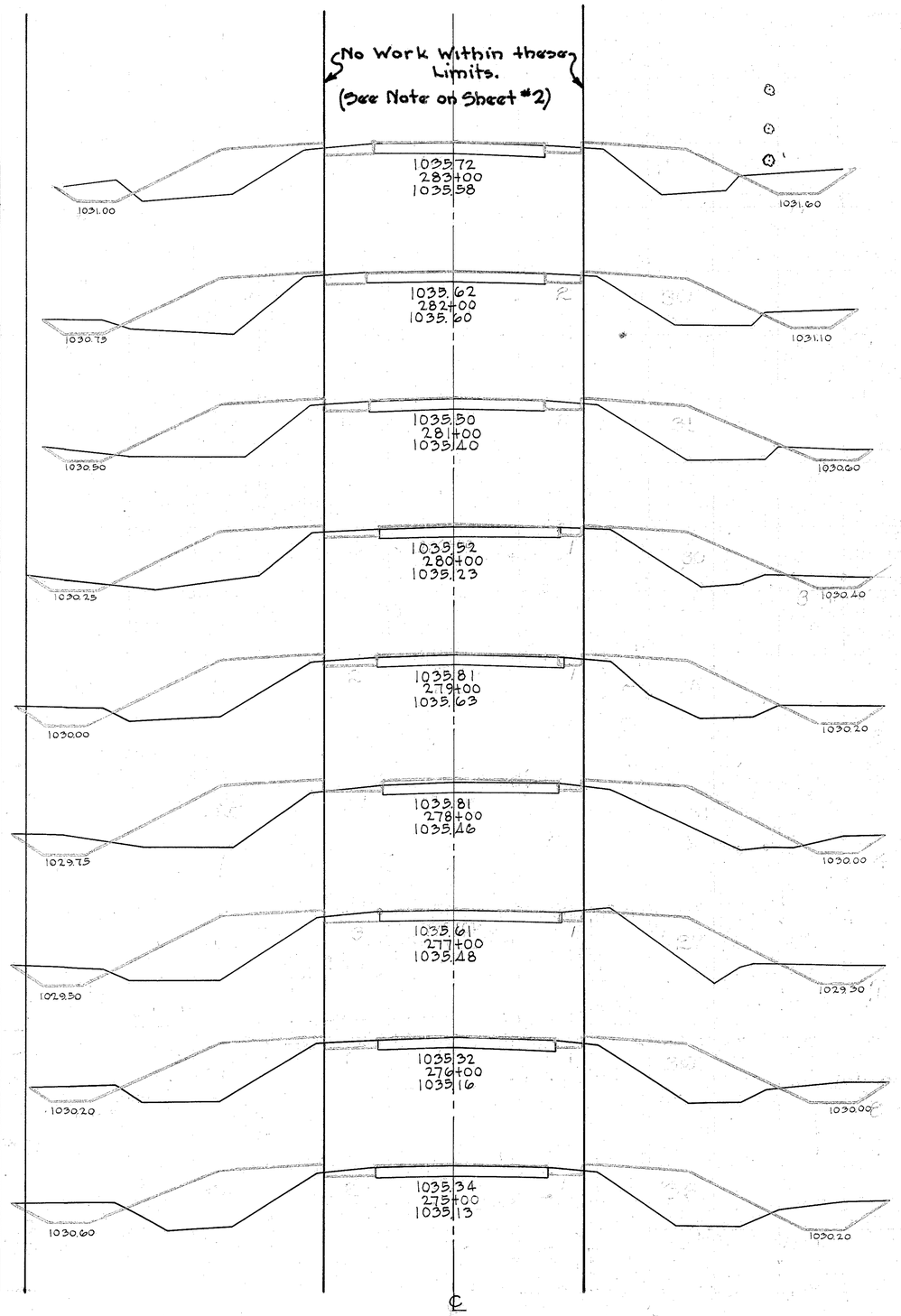
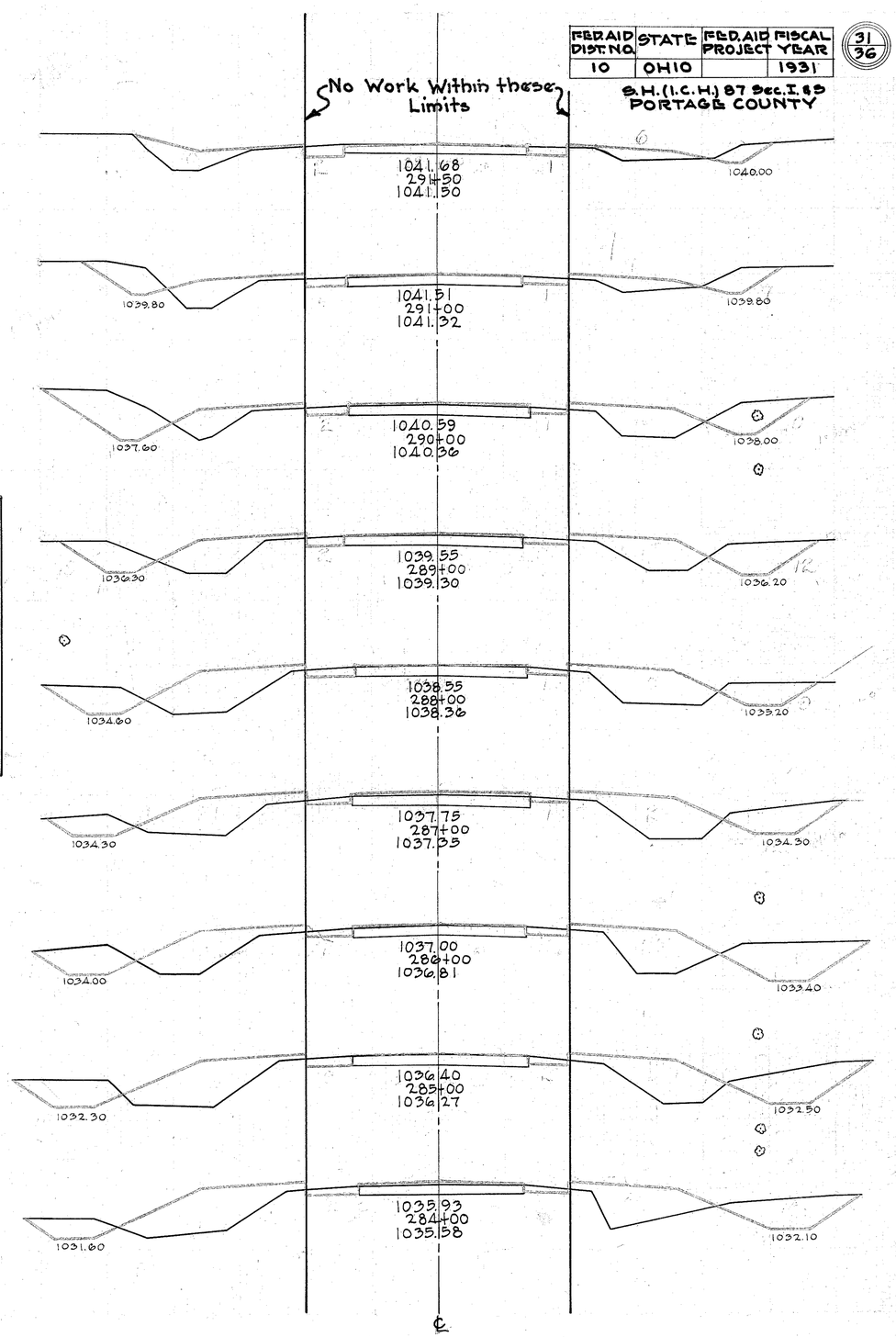
S.H. (I.C.H.) 87 Sec. I & S
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
21	55		
		67	224
15	66		
		46	239
10	74		
		37	267
10	70		
		34	268
19	75		
		59	280
13	76		
		57	276
18	73		
		63	278
16	77		
		72	287
23	78		
		72	289



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
6	16		
		22	31
18	18		
		94	82
33	26		
		109	106
26	31		
		93	143
24	46		
		85	167
22	44		
		109	161
37	43		
		133	168
35	48		
		120	185
30	52		
		94	198

Roadbed widened under Project №111 Contract №4730, 1931. No earthwork required. Finishing shoulders, slopes & ditches only.



FEDERAL DIST. NO	STATE	FEDERAL PROJECT	FISCAL YEAR
10	OHIO		1931

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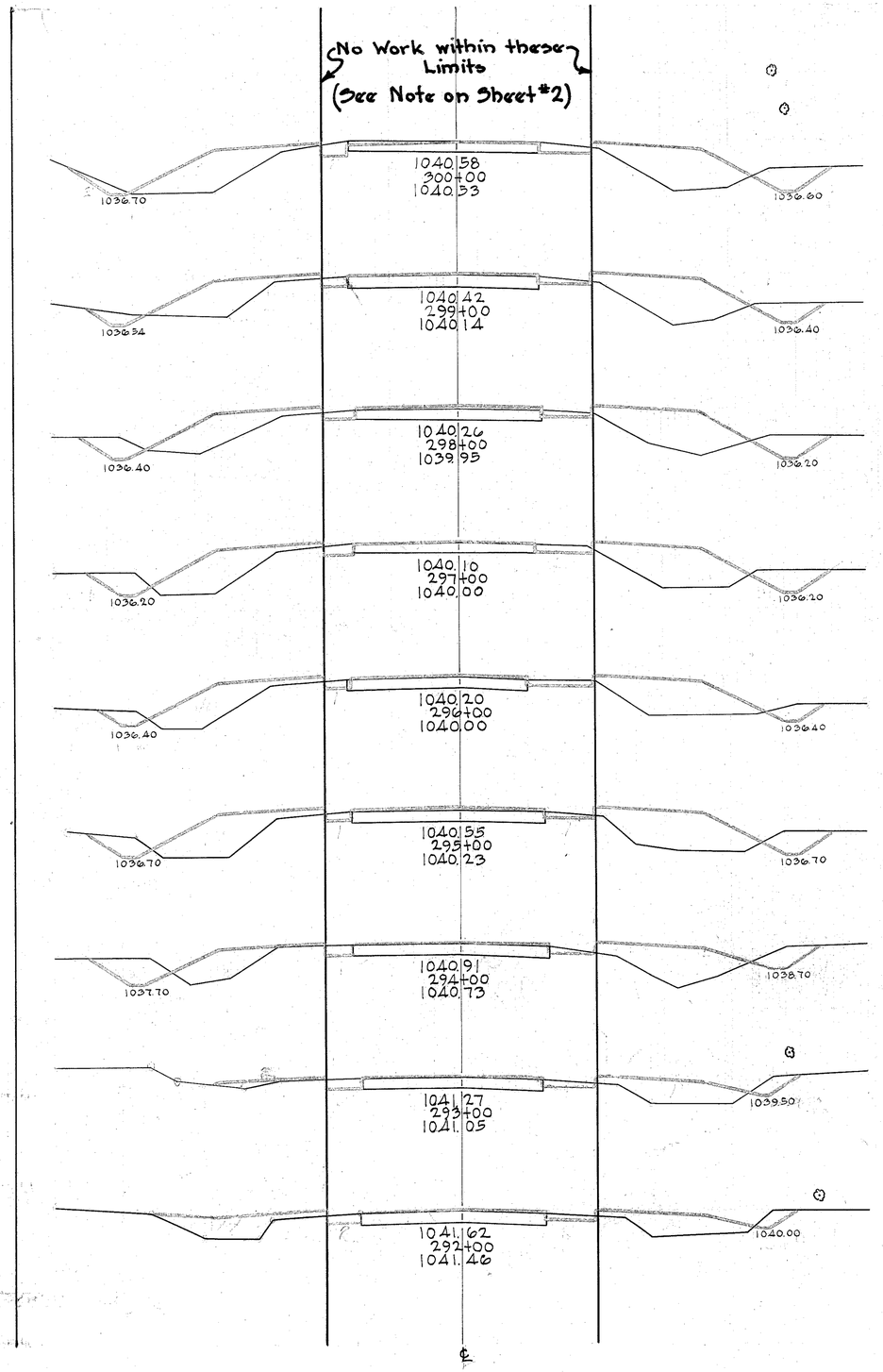
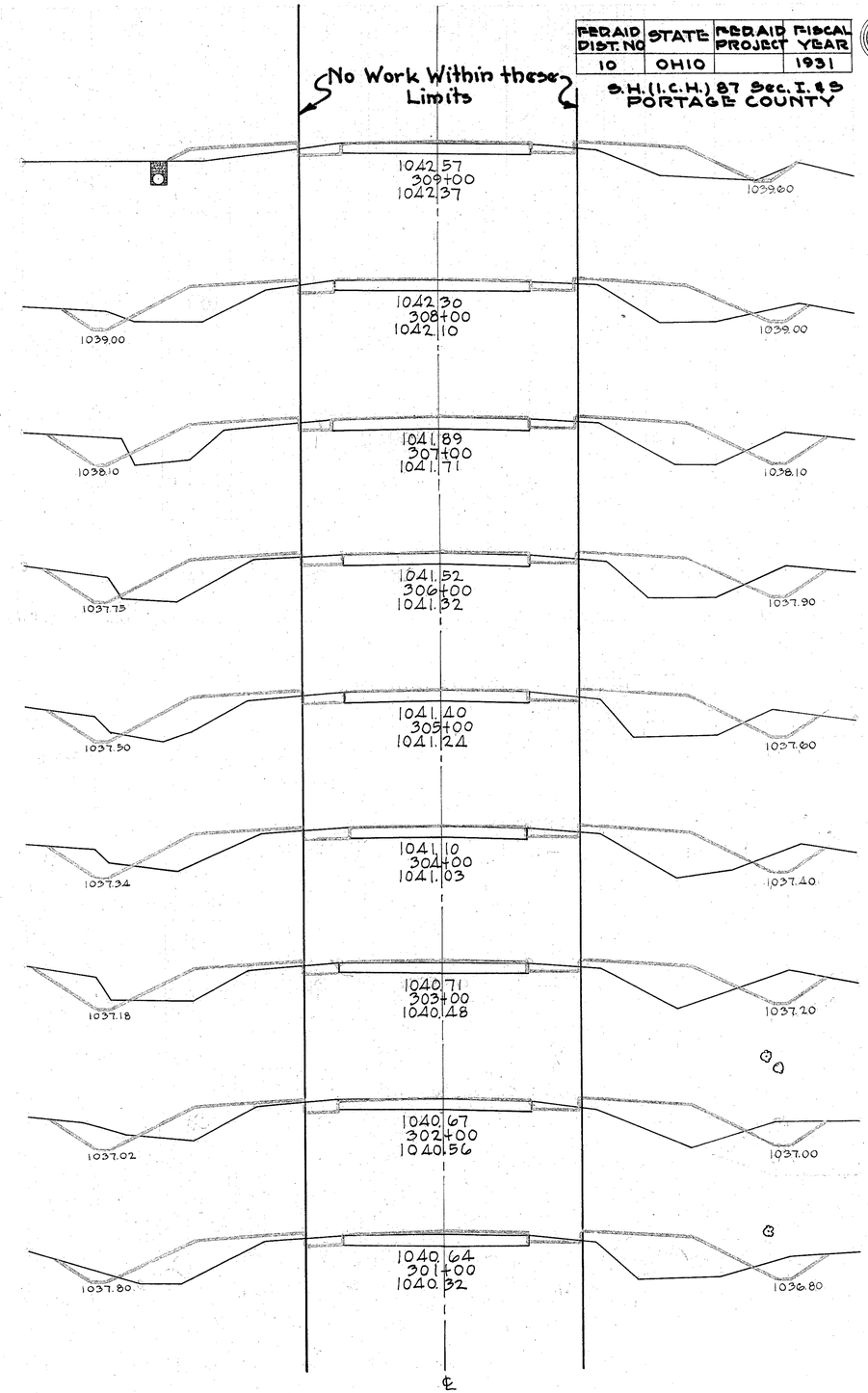
S.H. (I.C.H.) 87 Sec. I. & S
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
10	44		
		35	159
9	42		
		46	154
16	41		
		54	161
13	46		
		39	163
8	42		
		33	163
10	46		
		44	144
14	32		
		37	91
6	17		
		22	82
6	27		
		22	80



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
5	22		
		26	111
9	38		
		46	135
16	35		
		59	143
16	42		
		59	156
16	42		
		57	148
15	38		
		63	126
19	30		
		61	118
14	34		
		41	141
8	42		
		33	159

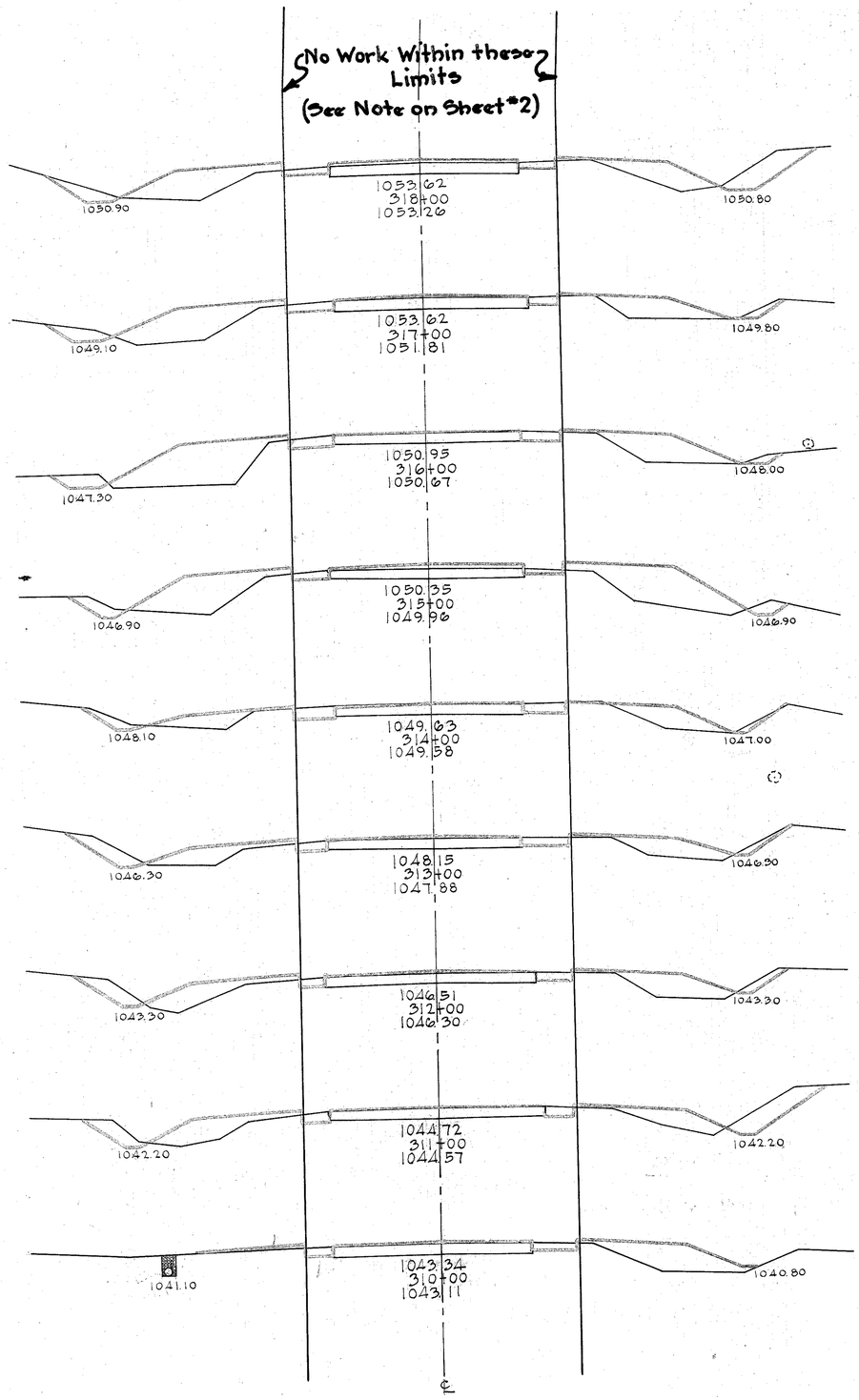


FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

33/36

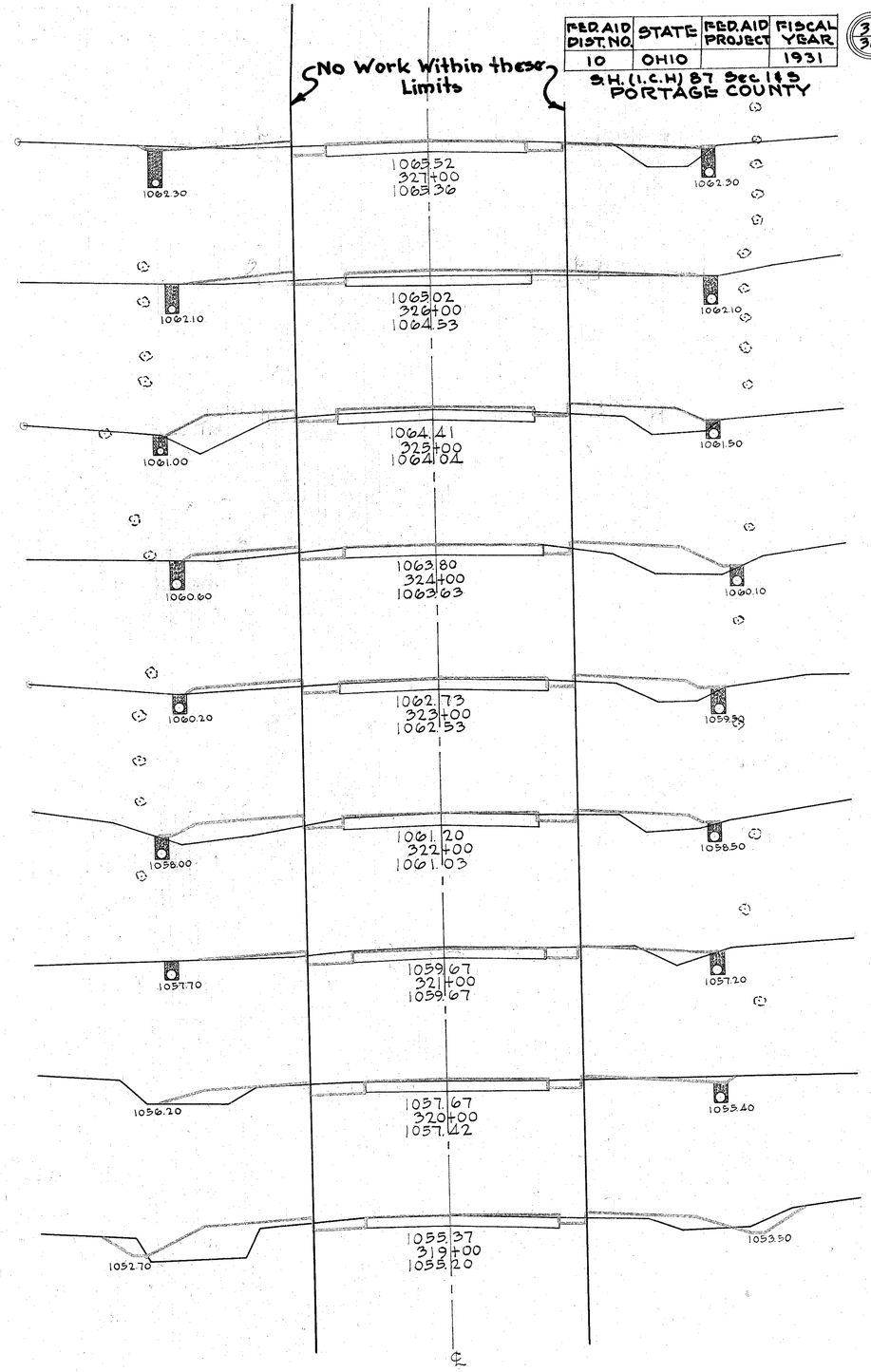
S.H. (I.C.H) 87 Sec 1 & 3
PORTAGE COUNTY

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
13	25		
		37	102
7	30		
		30	137
9	44		
		31	163
8	44		
		31	107
9	14		
		33	59
9	18		
		33	72
9	21		
		46	74
16	19		
		35	65
3	16		
		13	70



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
1	10		
		2	28
5	5		
			57
	26		
			85
	20		
			67
	16		
			67
	20		
			46
6	5		
		4	20
2	6		
		20	54
9	23		
		41	89

Exc. 28 Cu. Yds.
Emb. 672 Cu. Yds.
Emb. 907 Cu. Yds.
Borrow +35% 879 Cu. Yds.

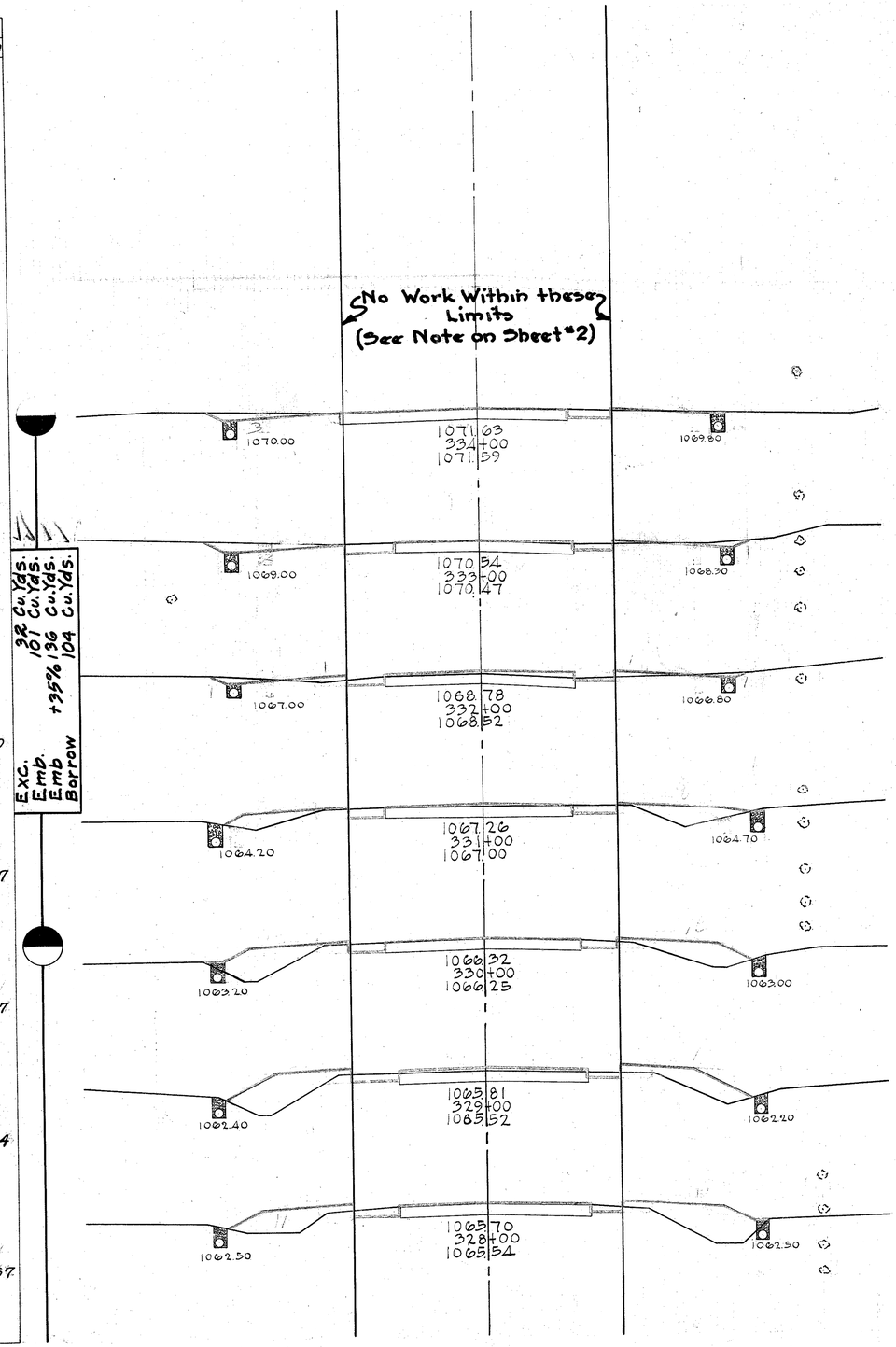


FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR	34/36
10	OHIO		1931	

S.H. (I.C.H.) 87 Sec I & S
PORTAGE COUNTY

End Area Cu. Yds.			
Cut	Fill	Exc.	Emb.
3			
		15	
5			
		13	4
2	2		
		4	30
	14		
			67
	22		
			87
	25		
			94
	26		
		2	67

Exc.	32 Cu. Yds.
Emb.	101 Cu. Yds.
Emb	136 Cu. Yds.
Borrow	104 Cu. Yds.
	+35%



FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

S.H. 87 Sec. J-1-S
PORTAGE COUNTY

35
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SUMMARY OF QUANTITIES

SUMMARY OF CORR. I.P. FOR PRIVATE DRIVES
LEFT SIDE

STATION	Cu. Yds. Stone	Length 8"	Length 10"	Length 12"	Length 15"	Length 18"	Length 20"	Length 22"
3+38	2.1	20'						
5+68	2.1	20'						
6+29	3.1	30						
7+29	3.2	30						
8+88	2.1	20						
12+88	3.0	48						
13+36	2.1	20						
13+18	2.1	20						
13+66	2.1	20						
16+07	2.3	22						
17+66	2.1	20						
18+40	2.1	20						
19+04	2.1	20						
24+30	3.0		48					
25+32	2.1	20						
26+32	2.1	20						
28+23	3.1	30						
30+00	2.1	20						
31+16	2.1	20						
33+07	3.1	30						
35+95	3.1	30						
37+17	3.1	30						
43+00	2.1			20				
48+16	2.1			20				
48+82	2.1			20				
49+56	2.1			20				
50+08	2.1			20				
58+20	2.1					20		
63+40	3.1	30						
63+78	2.1	20						
65+08	2.1	20						
67+01	1.1	10						
67+81	1.1	10						
68+26	2.1	20						
69+04	2.1	20						
69+46	2.1	20						
71+40	2.1	20						
72+84	2.1	20						
75+88	2.1	20						
78+53	2.1			20				
79+23	2.1			20				
80+74	2.1			20				
83+63	2.1						20	
85+44	2.1						20	
88+07	2.1		20					
90+14	2.1		20					
96+37	2.1	20						
102+09	2.1	20						
103+14	2.1		20					
109+00	2.1			20				
112+10	2.1			20				
118+93	2.1	20						
121+14	2.1	20						
122+59	2.1			20				
128+00	2.1	20						
134+91	1.1	10						
141+98	2.1	20						
150+87	2.1		20					
158+53	2.1	20						
174+37	2.1				20			
176+66	2.1				20			
185+29	2.1							20
187+61	2.1							20
Totals	144.4	890	128	220	40	20	40	40

SUMMARY OF CORR. I.P. FOR PRIVATE DRIVES
RIGHT SIDE

STATION	Cu. Yds. Stone	Length 8"	Length 10"	Length 12"	Length 15"	Length 18"	Length 20"
4+96	2.1	20					
5+86	2.1	20					
10+16	2.1	20					
11+64	2.1	20					
12+90	2.1	20					
13+86	2.1				20		
15+72	2.1				20		
16+40	2.1				20		
17+86	2.1	20					
18+70	2.1	20					
18+90	2.1	20					
19+78	2.1	20					
26+76	2.1	20					
28+23	3.2	50					
29+24	2.1	20					
30+44	2.1	20					
31+27	3.1	30					
32+38	2.1	20					
32+98	2.1	20					
33+78	2.1	20					
36+10	2.1	20					
36+26	2.1	20					
37+08	2.1	20					
37+64	2.1	20					
38+34	2.1	20					
39+44	2.1	20					
40+74	2.1	20					
45+00	2.1						20
51+04	2.1					20	
56+85	4.2					40	
58+14	2.1					20	
59+50	2.1					20	
65+30	2.1	20					
66+78	3.1	30					
70+54	2.1	20					
71+48	2.1	20					
74+00	2.1	20					
75+08	2.1	20					
78+23	2.1			20			
81+76	2.1			20			
83+30	2.1	20					
83+76	2.1	20					
84+25	1.1	10					
84+78	2.1	20					
85+48	2.1	20					
85+84	2.1	20					
92+43	2.1	20					
94+36	1.1	10					
97+80	2.1	20					
102+03	2.1	20					
104+12	2.1		20				
108+38	2.1			20			
111+04	2.1			20			
113+30	2.1			20			
117+93	2.1			20			
119+23	2.1	20					
120+23	1.1	10					
122+62	2.1	20					
124+25	2.1		20				
127+89	2.1	20					
160+43	2.1	20					
163+26	1.1	10					
163+50	2.1	20					
Totals	135.5	930	40	120	60	100	20

SUMMARY OF CORR. I.P. FOR PRIVATE DRIVES
LEFT SIDE

STATION	Cu. Yds. Stone	Length 8"	Length 10"	Length 12"	Length 15"	Length 22"
187+94	2.1					20
195+09	2.1	20				
199+40	2.1	20				
203+43	2.1	20				
206+31	1.1	10				
214+35	2.1					20
234+35	2.1	20				
254+12	2.1					20
308+48	2.1		20			
309+14	2.1		20			
310+12	2.1		20			
320+18	4.2	40				
320+88	2.1	20				
322+92	2.1	20				
324+12	2.1	20				
326+18	4.2	40				
327+48	4.2	40				
329+38	2.1		20			
331+66	2.1	20				
Total	45.2	290	80			60

SUMMARY OF CORR. I.P. FOR PRIVATE DRIVES
BOTH SIDES

	Cu. Yds. Stone	Length 8"	Length 10"	Length 12"	Length 15"	Length 18"	Length 20"	Length 22"
Total (Lt.)	189.6	1180	208	220	40	20	40	100
Total (Rt.)	168.1	1130	60	160	90	100	20	40
Grand Tot.	357.7	2310	268	380	130	120	60	140

SUMMARY OF CORR. I.P. FOR PRIVATE DRIVES
RIGHT SIDE

STATION	Cu. Yds. Stone	Length 8"	Length 10"	Length 12"	Length 15"	Length 22"
167+31	2.1			20		
171+76	2.1			20		
193+20	2.1	20				
194+13	1.1	10				
210+38	2.1				20	
211+39	1.1				10	
214+30	2.1					20
215+90	2.1					20
224+74	2.1	20				
234+36	2.1	20				
242+73	2.1		20			
320+00	2.1	20				
320+76	2.1	20				
323+20	2.1	20				
330+48	2.1	20				
331+63	2.1	30				
Totals	32.6	180	20	40	30	40

SUMMARY OF NEW V.S.P. OR P.C.P. AND R.C.P.
LEFT SIDE

STATION to	STATION	Length 8"	Length 10"	Length 12"
0+40	3+28	288		
5+78	6+14	36		
6+44	7+04	60		
7+34	8+16	62		
8+20	8+78	58		
8+98	12+62	364		
13+14	13+26	12		
13+46	15+08	162		
15+28	15+56	28		
15+76	15+94	18		
16+20	17+46	126		
17+50	17+56	6		
17+76	18+30	54		
18+50	18+94	44		
19+14	20+14	100		
21+62	22+96	134		
23+28	24+04		76	
25+44	26+22	78		
26+42	28+08	166		
28+38	29+90	152		
30+10	31+06	96		
31+26	32+90	164		
33+22	35+80	258		
36+10	37+02	92		
37+32	39+42	210		
39+44	40+86	142		
44+40	44+90			
45+10	46+00			
47+52	48+06			
48+26	48+72			
48+92	49+46			
49+66	49+98			
50+18	50+68			
61+88	63+26	138		
63+56	63+78	22		
66+28	66+96	68		
67+06	67+76	70		
67+86	68+16	30		
68+36	68+94	58		
69+14	69+36	22		
71+50	72+74	124		
72+94	75+78	284		
94+33	96+27	194		
109+10	110+06			
120+52	121+04	52		
141+28	141+88	60		
154+75	158+43	368		
158+63	160+31	168		
308+58	309+04		46	
309+24	310+02		78	
320+98	322+82	184		
323+02	324+02	100		
324+22	325+98	176		
326+38	327+28	90		
327+68	328+06	38		
328+08	329+28		120	
329+48	331+56	208		
331+76	333+12	136		
Totals		5500	320	472

SUMMARY OF NEW V.S.P. OR P.C.P. AND R.C.P.
RIGHT SIDE

STATION to	STATION	Length 8"	Length 10"	Length 12"	Length 15"	Length 18"
3+06	3+76	70				
3+96	8+16	220				
8+20	10+06	186				
10+26	11+54	128				
11+74	13+62	188				
13+66	13+76				10	
13+96	15+62				166	
15+82	16+30				48	
16+50	17+46				96	
17+50	17+76	26				
17+96	18+60	64				
19+00	19+68	68				
26+16	26+66	50				
26+86	27+98	112				
28+50	29+14	64				
29+34	30+34	100				
30+54	31+12	58				
31+44	32+28	84				
32+48	32+88	40				
33+08	33+68	60				
33+88	36+00	212				
36+20	36+26	6				
36+46	36+98	52				
37+18	37+54	36				
37+74	38+44	70				
38+64	39+34	70				
39+54	40+64	110				
40+84	41+40	56				
50+84	50+94					10
51+14	51+80					66
53+60	56+66					306
57+06	58+04					98
58+24	59+40					116
59+60	60+20					60
70+64	71+38					74
81+00	81+66			66		
83+02	83+20	18				
83+40	83+64	24				
100+67	101+93	126				
102+13	102+25	12				
175+68	176+44				76	
178+04	178+36				32	
224+84	225+62	78				
319+22	319+90	68				
320+10	320+76	66				
320+96	325+16	420				
326+94	330+38	344				
330+58	331+48	90				
331+78	334+02	224				
Total (Rt.)		3600		66	428	730
Total (Lt.)		5500	320	472		
Grand Total		9100	320	538	428	730

SUMMARY OF EXCAVATION & EMBANKMENT

STATION to	STATION	Exc.	Emb.	Exp. 25%	Borrow	Waste
0+00	10+00	270	846	1141	871	
10+00	20+00	53	381	514	461	
20+00	30+00	269	143	193		76
30+00	40+00	135	331	447	312	
40+00	50+00	87	909	1227	1140	
50+00	60+00	305	582	786	421	
60+00	70+00	151	716	967	816	
70+00	80+00	151	362	489	338	
80+00	90+00	171	514	694	523	
90+00	100+00	189	715	965	776	
100+00	110+00	214	535	722	508	
110+00	120+00	538	310	418		120
120+00	130+00	193	491	662	469	
130+00	140+00	129	733	990	861	
140+00	150+00	190	1050	1417	1227	
150+00	160+00	257	1011	1365	1108	
160+00	170+00	218	966	1304	1086	
170+00	180+00	546	905	1222	676	
180+00	190+00	542	1207	1629	1087	
190+00	200+00	397	1457	1968	1571	
200+00	210+00	310	834	1126	816	
210+00	220+00	912	983	1327	415	
220+00	230+00	1024	1490	2011	987	
230+00	240+00	189	1351	1824	1635	
240+00	250+00	398	1302	1758	1360	
250+00	256+00	424	746	1007	583	
319+00	330+00	28	672	907	879	
330+00	334+00	32	101	136	104	
Totals		8,382	21,643	29,216	21,030	196

Net Borrow 21,030 - 196 = 20,834 Cu. Yds.

ST. R. SIDE DITCH INLETS COMPLETE

Including Tee & Spur, Conc. Enc., Grating ST. R. DRW. # 305

STATION	Side of Road	8" Tee 8" Spur	10" Tee 10" Spur	12" Tee 12" Spur
3+57	Lt.	1		
12+63	Lt.	1		
13+13	Lt.	1		
15+95	Lt.	1		
16+19	Lt.	1		
20+15	Lt.	1		
21+01	Lt.	1		
24+05	Lt.		1	
24+55	Lt.		1	
4+85	Rt.	1		
28+49	Rt.	1		
32+91	Lt.	1		
39+43	Lt.	1		
47+51	Lt.			1
31+13	Rt.	1		
333+13	Lt.	1		
Totals		13	2	1

STATION 25+43 - 1 10" to 8" Reducer
STATION 13+64 - 1 Speical Brick Catch Basin (Complete) in Place.
STATION 13+64 (South on Rt.-of-Way for Sewer Purposes), 350 Lin. Ft 20" V.S.P. in Place.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1931

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S.H. 87 Sec. J-1-S
PORTAGE COUNTY

SUMMARY OF QUANTITIES

SUMMARY OF PERFORATED CORR I.P.

STATION to	STATION	Side of Rd	Length 8"	Length 10"	Length 12"	Length 15"
20+16	21+00	Lt	84			
21+02	21+62	Lt	60			
24+56	25+22	Lt		66		
19+88	23+06	Rt.	318			
23+44	26+16	Rt.	272			
46+00	47+50	Lt.			150	
66+78	68+56	Rt.	178			
69+56	71+30	Lt	174			
71+58	73+40	Rt.	182			
176+44	178+04	Rt.				160
201+30	202+40	Rt.	110			
240+34	240+74	Rt.	40			
325+36	326+94	Rt.	158			
333+14	334+02	Lt.	88			
Totals			1664	66	150	160

SUMMARY OF TILE AND OLD V.S.P. TO BE REMOVED AND SALVAGED

STATION to	STATION	Side of Rd	Length 4"	Length 6"	Length 8"	Length 10"	Length 12"
4+26	6+82	Rt.	256				
5+57	7+11	Lt.			154		
8+24	21+00	Lt.			1276		
12+80	17+92	Rt.		512			
23+80	41+40	Rt.			1760		
23+32	28+46	Lt.				514	
29+90	31+60	Lt.			170		
32+92	33+32	Lt.			40		
35+30	40+86	Lt.				556	
49+46	50+20	Lt.				74	
50+84	51+80	Rt.					96
53+60	60+20	Rt.			660		
61+88	63+94	Lt.			206		
65+14	68+83	Rt.			369		
66+18	68+00	Lt.		182			
68+94	71+52	Lt.			258		
70+42	71+03	Rt.		61			
71+92	73+35	Rt.	143				
73+84	74+54	Rt.	70				
74+06	76+00	Lt.	194				
81+00	81+88	Rt.					88
83+02	83+63	Rt.					61
94+33	96+49	Lt.			216		
100+67	102+25	Rt.			158		
109+00	110+06	Lt.					106
120+53	121+24	Lt.					71
141+29	142+13	Lt.					84
154+15	160+31	Lt.			616		
165+16	165+88	Rt.			72		
175+69	178+36	Rt.					267
224+64	225+62	Rt.			98		
308+44	310+24	Lt.				180	
320+76	321+72	Lt.		96			
322+85	324+43	Lt.		158			
325+15	326+93	Rt.		178			
325+78	327+37	Lt.			159		
330+80	334+02	Lt.			322		
331+92	334+02	Rt.			210		
Totals			663	1187	6744	1324	773
Total Removal - 10,691 Lin. Ft.							

SUMMARY OF DEDUCTIONS

STATION To	STATION	Lin. Feet	Remarks
23+04.7	23+27.05	22.35	For Railroad (Penn.)
43+84	44+01.3	17.30	For Bridge
271+78	272+30	52.00	For Bridge
276+22	276+32	10.00	For Bridge
Total Deduction 101.65 Lin. Ft.			

SUMMARY OF ROADWAY ITEMS

Exc. Unclassified	Cu. Yds.	8,382
Borrow Unclassified	Cu. Yds.	20,834
Old Tile or V.S.P. to be removed and Salvaged	Lin. Ft.	10,691
8" V.S.P. (new) laid and backfilled with #34 Stone. or R.C.P.	Lin. Ft.	9,100
10" V.S.P. (new) laid and backfilled with #34 Stone. or R.C.P.	Lin. Ft.	320
12" V.S.P. (new) laid and backfilled with #34 Stone. or R.C.P.	Lin. Ft.	538
15" V.S.P. (new) laid and backfilled with #34 Stone. or R.C.P.	Lin. Ft.	428
18" V.S.P. (new) laid and backfilled with #34 Stone. or R.C.P.	Lin. Ft.	730
8" Corr. I.P. for Drives	Lin. Ft.	2310
10" Corr. I.P. for Drives.	Lin. Ft.	268
12" Corr. I.P. for Drives.	Lin. Ft.	380
15" Corr. I.P. for Drives.	Lin. Ft.	130
18" Corr. I.P. for Drives.	Lin. Ft.	120
20" Corr. I.P. for Drives.	Lin. Ft.	60
24" Corr. I.P. for Drives.	Lin. Ft.	140
8" Perf. Corr. I.P. laid and backfilled with #34 Stone.	Lin. Ft.	1664
10" Perf. Corr. I.P. laid and backfilled with #34 Stone.	Lin. Ft.	66
12" Perf. Corr. I.P. laid and backfilled with #34 Stone.	Lin. Ft.	150
15" Perf. Corr. I.P. laid and backfilled with #34 Stone.	Lin. Ft.	160
8" V.S.P. (old) cleaned, relaid and backfilled with #34 Stone.	Lin. Ft.	1
10" V.S.P. (old) cleaned, relaid and backfilled with #34 Stone	Lin. Ft.	1
12" V.S.P. (old) cleaned, relaid and backfilled with #34 Stone	Lin. Ft.	1
#34 Stone for Drives, in Place	Cu. Yds.	357.7
Std. Side Ditch Inlets (Complete) using 8" Tee 8" Spur.	No.	13
Std. Side Ditch Inlets (Complete) using 10" Tee 10" Spur.	No.	2
Std. Side Ditch Inlet (Complete) using 12" Tee 12" Spur.	No.	1
V.S.P. Reducer (10" to 8")	No.	1
Special Brick Catch Basin	No	1
Finishing Shoulders, Slopes and Ditches	Lin. Ft.	33,300.7
20" V.S.P. (new) in Place	Lin. Ft.	350
8" Tee 8" Spur (V.S.P.) in Place, to establish unit price.	No.	1
12" Tee 12" Spur (V.S.P.) in Place to establish unit price.	No.	1

SUMMARY OF SHOULDERS, SLOPES AND DITCHES LIN. FT. (BOTH SIDES)

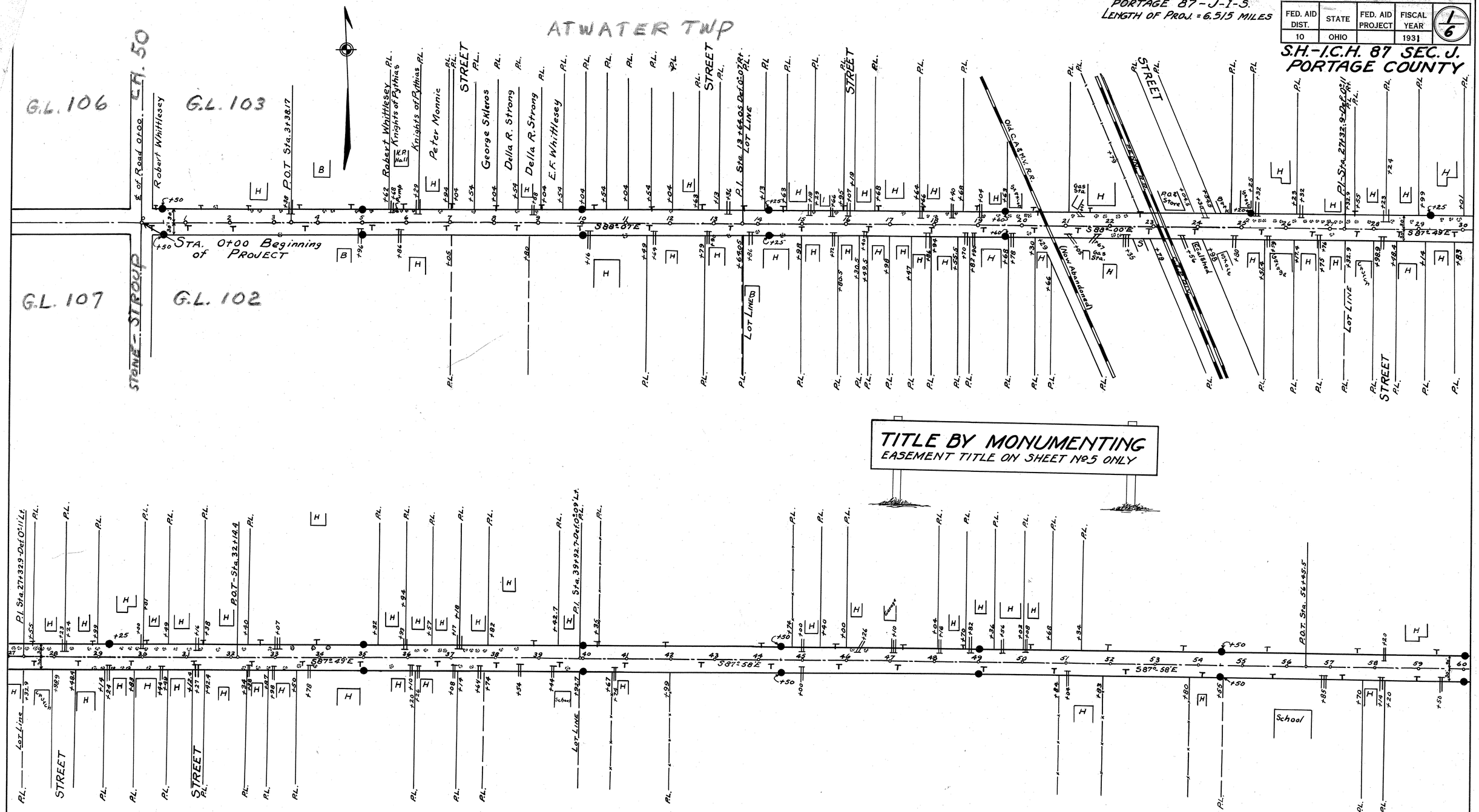
STA. 0+00 to 334+02.38 = 33,402.38 Lin. Ft.
Total Deductions = 101.65 Lin. Ft.
Total Lin. Ft. = 33,300.73 Lin. Ft.

POR 224

PORTAGE 87-J-1-S.
LENGTH OF PROJ. = 6.515 MILES

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	1/6
10	OHIO		1931	

S.H.-I.C.H. 87 SEC. J.
PORTAGE COUNTY



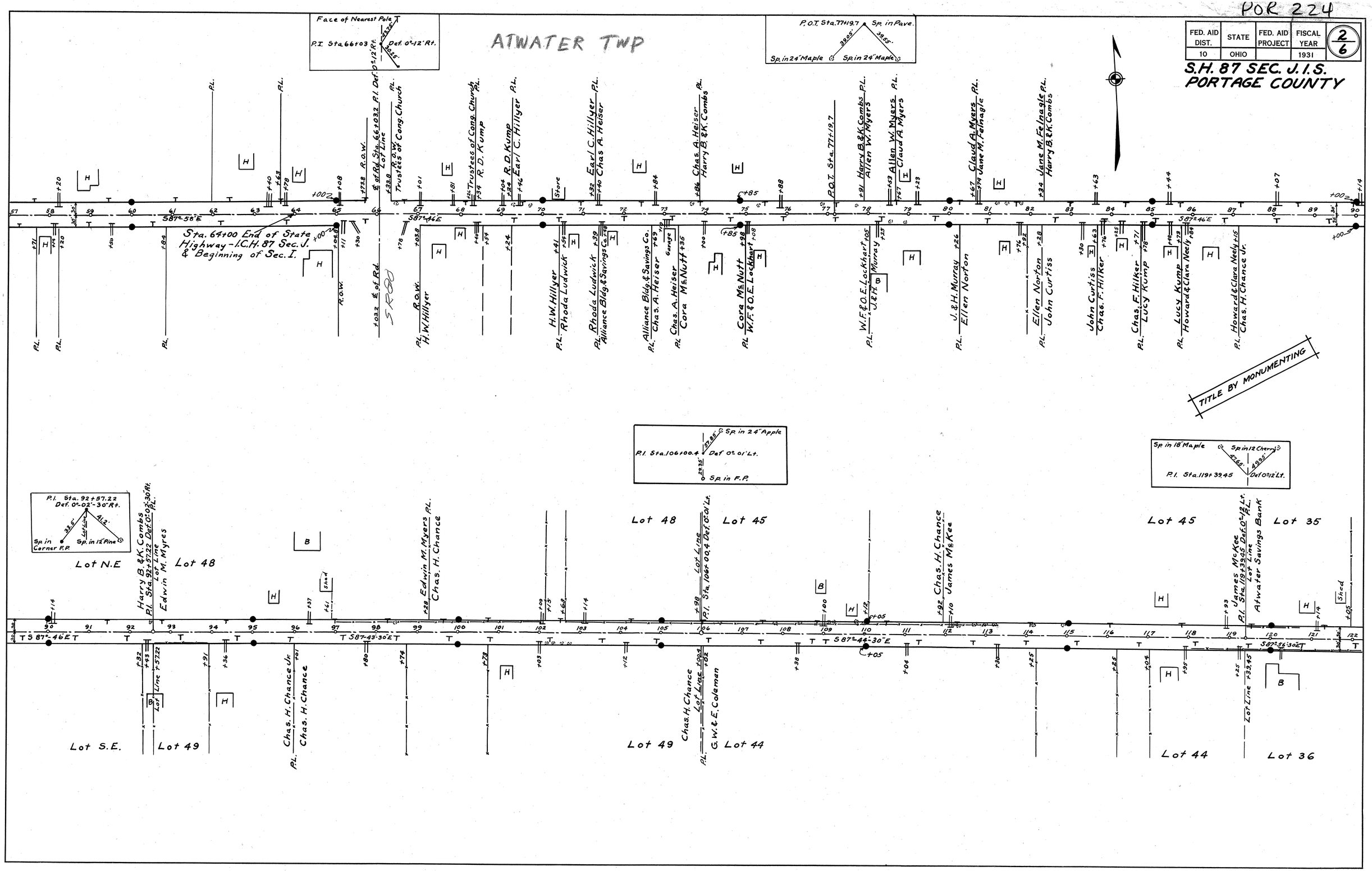
TITLE BY MONUMENTING
EASEMENT TITLE ON SHEET No. 5 ONLY

ORIGINAL to Por County Eng. off 7/9/98

POR 224

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	2/6
10	OHIO		1931	

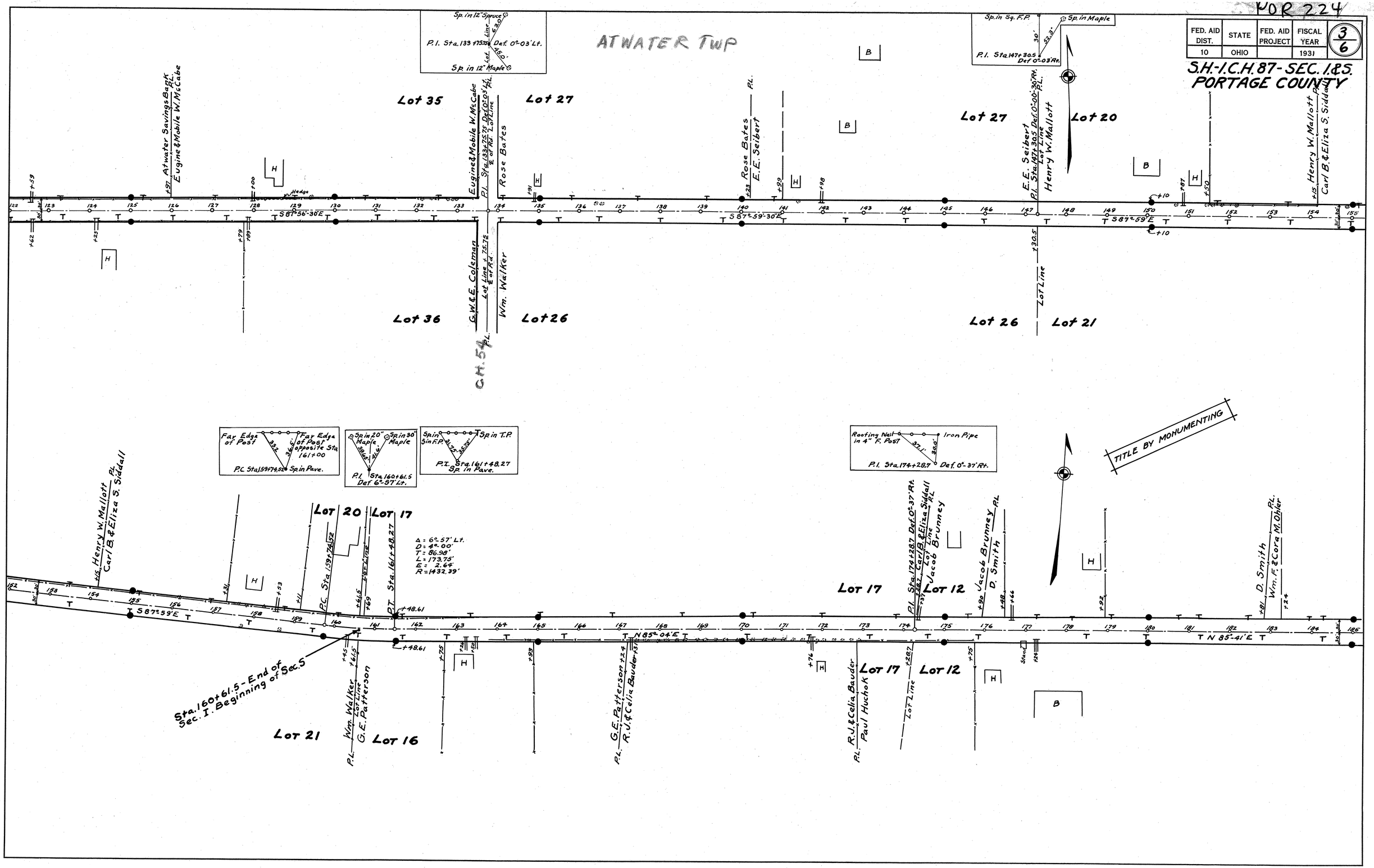
S.H. 87 SEC. J.I.S.
PORTAGE COUNTY



PDR 224

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	3/6
10	OHIO		1931	

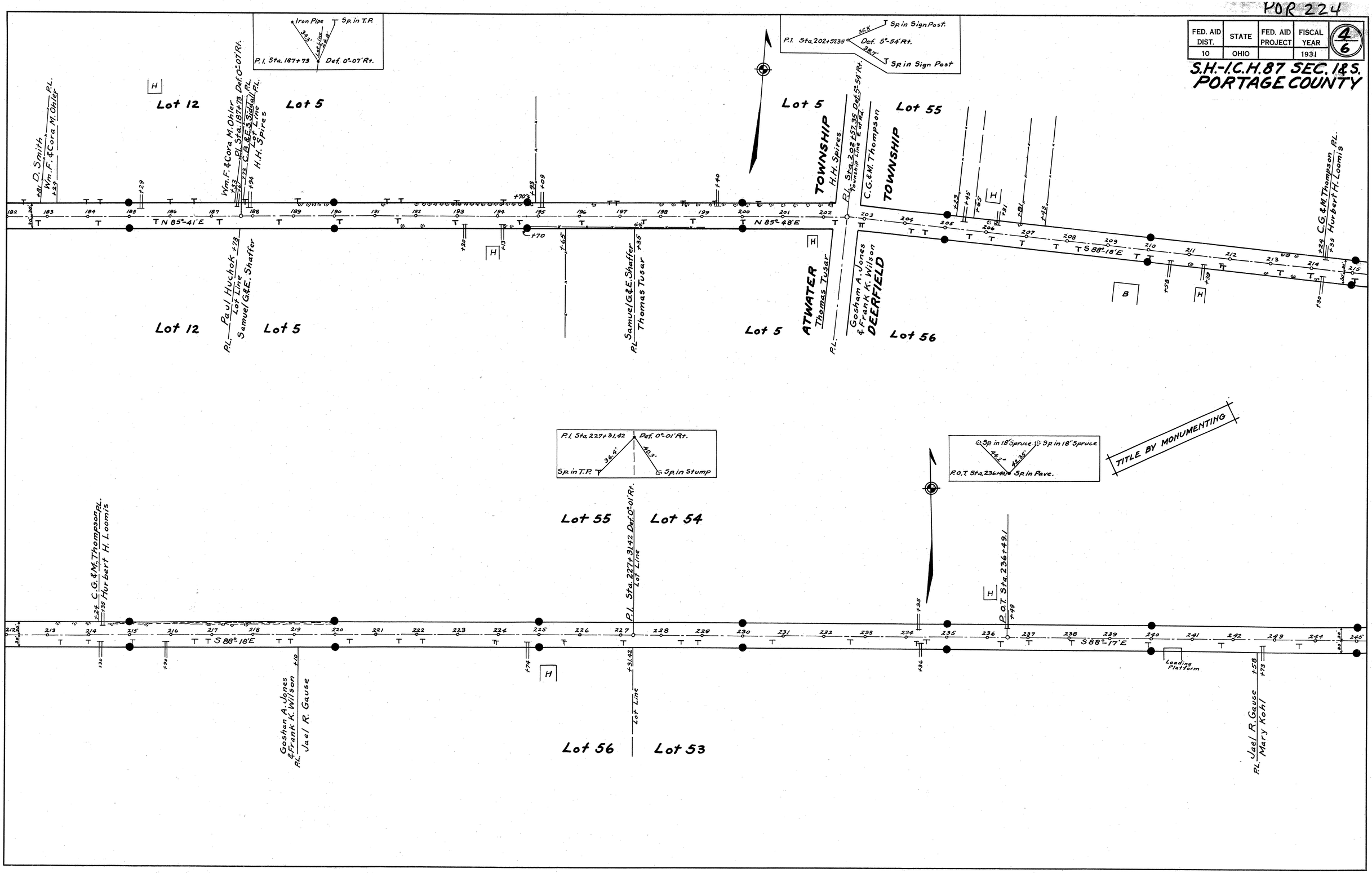
S.H.-I.C.H. 87-SEC. I.&S. PORTAGE COUNTY



POR 224

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	4/6
10	OHIO		1931	

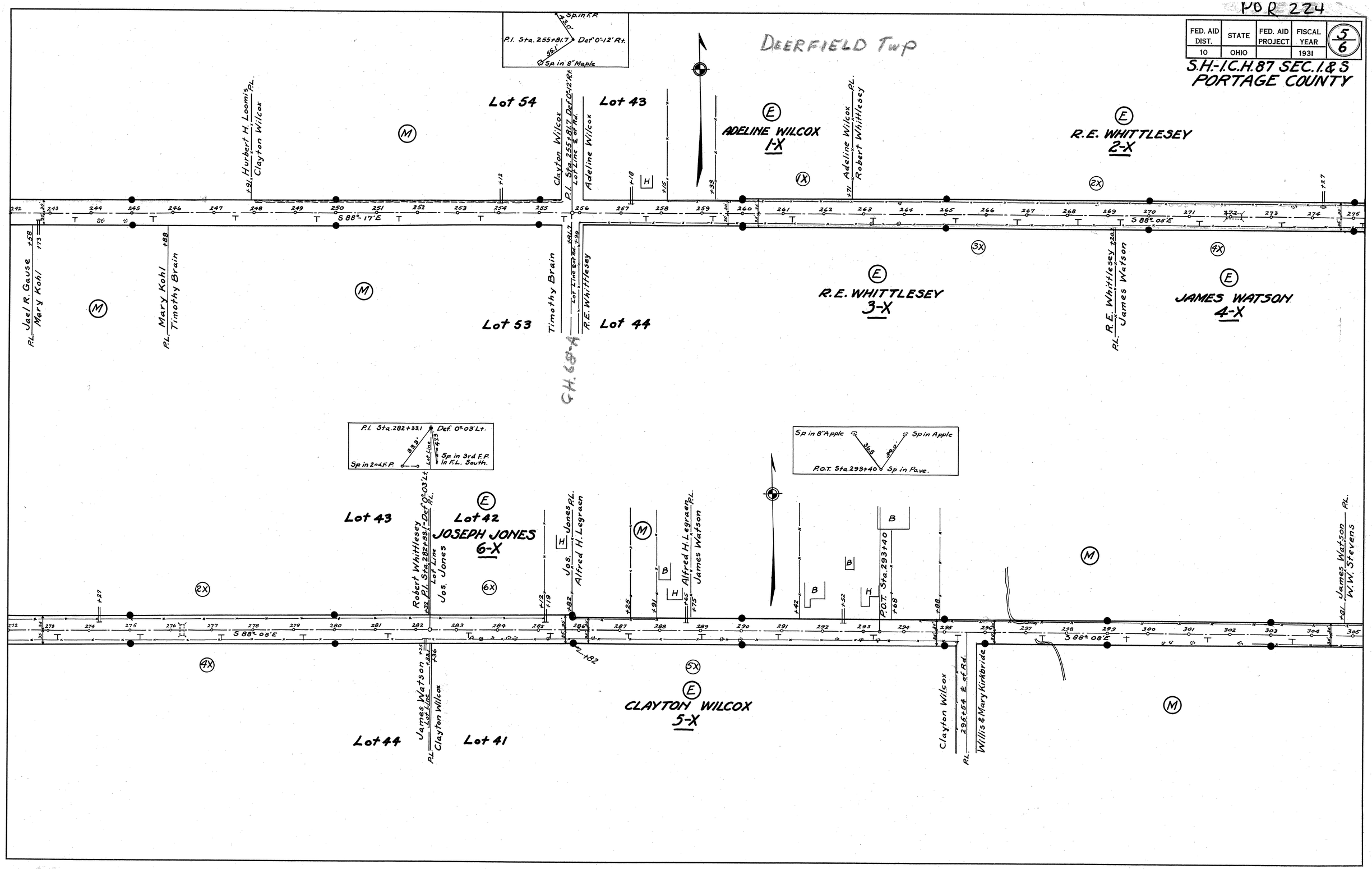
S.H.-I.C.H.87 SEC. 1&S. PORTAGE COUNTY



PDR 224

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	5/6
10	OHIO		1931	

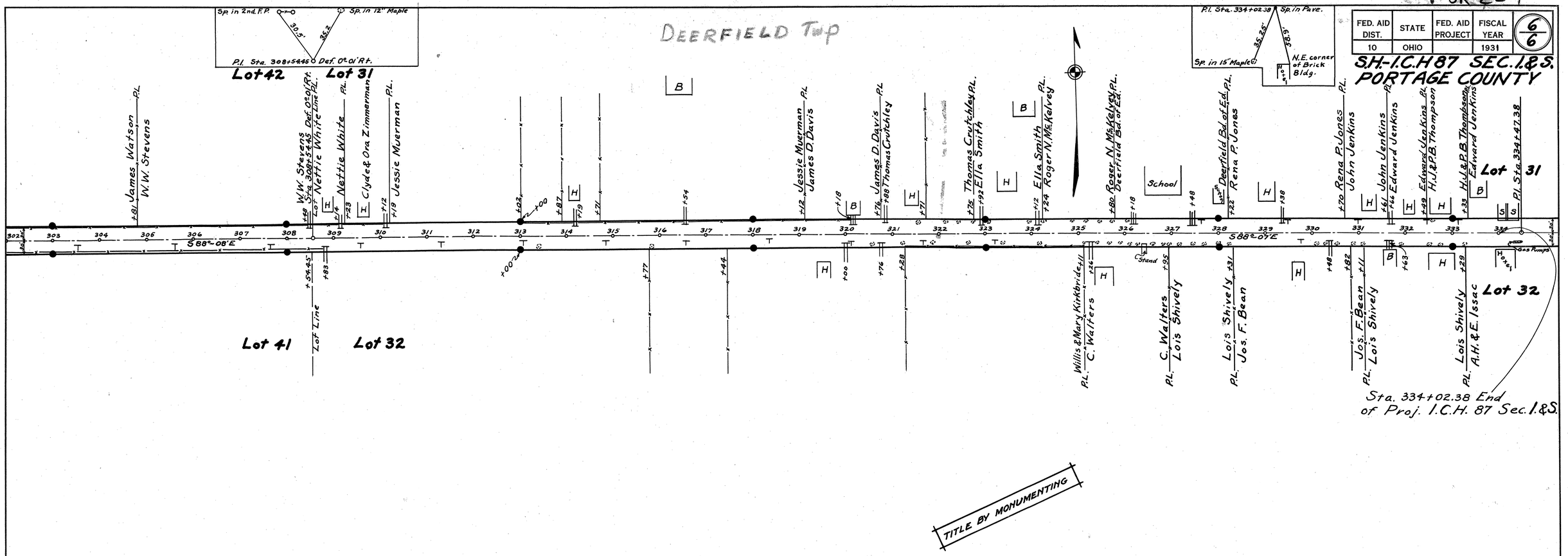
S.H.-I.C.H.87 SEC. I & S
PORTAGE COUNTY



POR 224

FED. AID DIST.	STATE	FED. AID PROJECT	FISCAL YEAR	6/6
10	OHIO		1931	

S.H.-I.C.H 87 SEC. I.&S. PORTAGE COUNTY



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