

# 3036

4

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
LUC-20-(19.04)-(19.17)  
WOO-20-(0.00-0.29), WOO-270-(0.12)  
LUCAS & WOOD COUNTIES  
MONCLOVA & PERRYSBURG TOWNSHIPS  
VILLAGES OF MAUMEE & PERRYSBURG

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	H.I.F.	1950

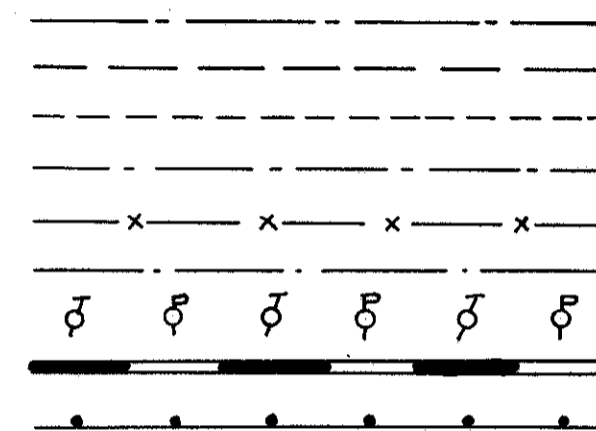
1  
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LUCAS COUNTY  
LUC-20-(19.04-19.17)  
WOOD COUNTY  
WOO-20-(0.00-0.29)  
WOO-270-(0.12)

352

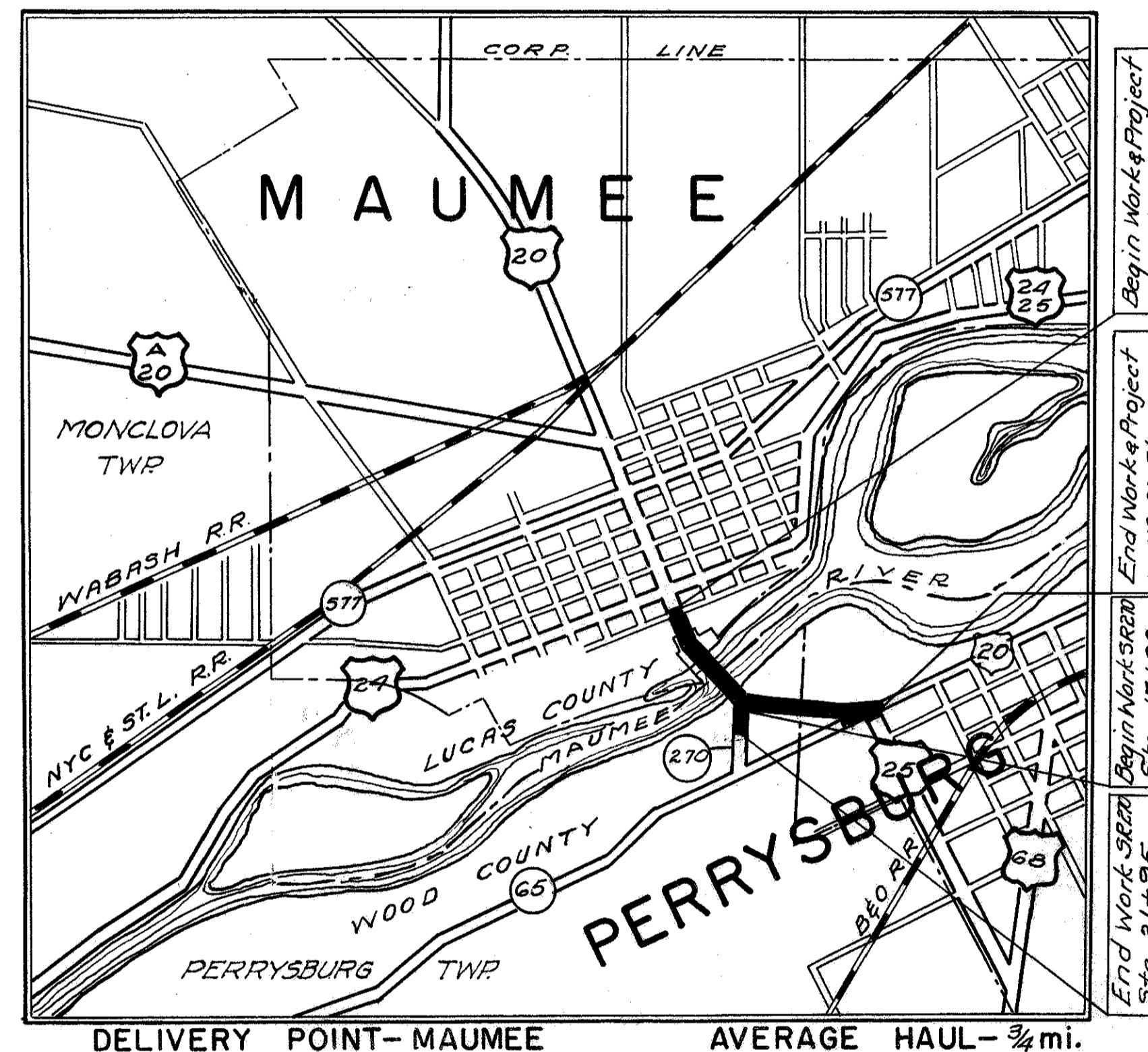
CONVENTIONAL SIGNS

COUNTY LINE  
TOWNSHIP LINE  
SECTION LINE  
CORPORATION LINE  
FENCE LINE  
CENTER LINE  
POLE LINE  
STEAM RAILROAD  
GUARD RAIL



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DELIVERY POINT-MAUMEE AVERAGE HAUL- 3/4 mi.

LOCATION PLAN



SCALES

PLAN 1" = 50'  
PROFILE HORIZONTAL 1" = 50'  
PROFILE VERTICAL 1" = 5'

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

The right of way necessary for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the Highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved: George W. Lieber  
Date: 6-7-50 Division Deputy Director.

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

Approved: Richard Orth  
Date: 6-19-50 Chief Engineer, Bureau of Bridges & R.R. Crossings.

Approved: M. J. [Signature]  
Date: 6-20-50 Chief Engineer, Bureau of Location & Design.

Approved: V. J. [Signature]  
Date: 6-21-50 First Asst. Director & Chief Engineer.

Approved: T. J. [Signature]  
Date: 6-21-50 Director of Highways.

LINE DATA

US-20 VILLAGE OF MAUMEE  
BEGIN WORK AND PROJECT STA 0+30 FT.  
END WORK STA 7+45.65  
GROSS LENGTH = NET LENGTH = 775.65 LIN. FT. or 0.146 MI.  
US-20 RURAL LUCAS CO.  
BEGIN WORK STA 7+45.65  
END WORK STA 11+64.55  
GROSS LENGTH = NET LENGTH = 418.90 LIN. FT. or 0.079 MI.  
US-20 RURAL WOOD CO.  
BEGIN WORK STA 11+64.55  
END WORK STA 26+95  
GROSS LENGTH = NET LENGTH = 1530.45 LIN. FT. or 0.289 MI.  
US-20 VILLAGE OF PERRYSBURG  
BEGIN WORK STA 26+95  
END WORK AND PROJECT STA 37+46.76  
GROSS LENGTH = NET LENGTH = 1051.76 LIN. FT. or 0.199 MI.  
APPROACH SR 270 RURAL WOOD CO.  
BEGIN WORK STA 17+00  
END WORK STA 21+95  
GROSS LENGTH = NET LENGTH = 495 LIN. FT. or 0.093 MI.  
TOTAL NET LENGTH OF PROJECT = 3776.76 LIN. FT. or 0.715 MI.  
TOTAL NET LENGTH OF WORK = 3776.76 + 495.00 = 4271.76 LIN. FT. or 0.809 MI.

352

FILE NO. 352  
LUCAS-WOOD  
SEC LUC-20-(19.04-19.17), WOO-20-(0.00-0.29), WOO-270-(0.12)  
DATE OF LETTING \_\_\_\_\_  
CONTRACT NO. \_\_\_\_\_

SUPPLEMENTAL SPECIFICATIONS	STANDARD	DRAWINGS

CONSTRUCTION BUREAU  
JUN 28 1955  
GROUND PHOTOLAB

# TYPICAL SECTIONS TYPE T-50

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		1950

2  
6

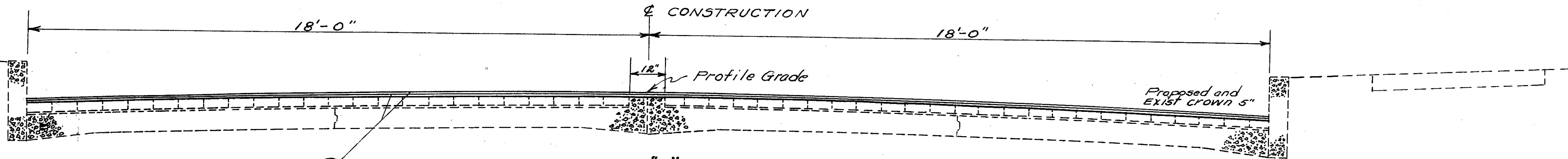
LUCAS COUNTY  
LUC 20-(19.04-19.17)  
WOOD COUNTY  
WOO 20(0.00-0.29)  
WOO 270-0.12

### DATA ON EXISTING PAVEMENT

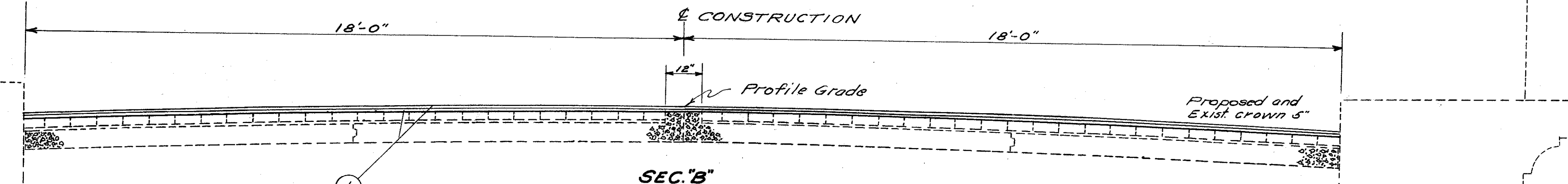
**Sec "A"**  
Width 36 ft, 3" brick surface, bit filler  
3/4" sand cushion, 9"-7"-9"  
concrete base, concrete curb  
7" x 28", 15" curb face.

**Sec "B"**  
Width 36 ft, 3" brick surface, bit filler  
3/4" sand cushion, 7" concrete base,  
11" curb face.

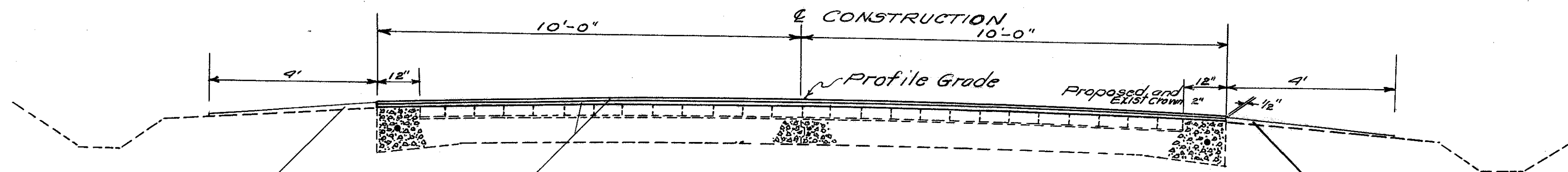
**Sec "C"**  
Width 20 ft, 3" brick surface, bit filler  
3/4" sand cushion, 9"-7"-9"  
concrete base, 12" header curbs.



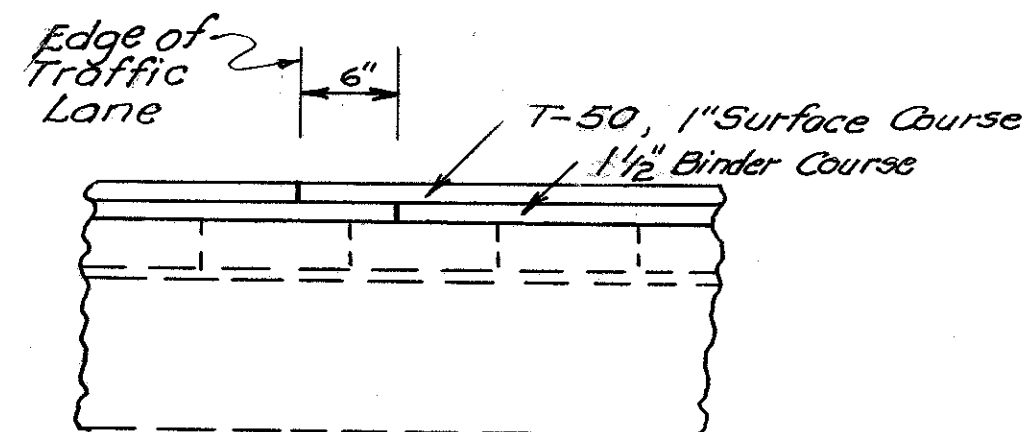
**SEC "A"**  
This Section applies from Sta 0+32 to Sta 7+45.65 = 713.65 Lin. Ft.  
from Sta. 15+83.45 to Sta. 34+28 = 1844.55 Lin. Ft.  
from Sta. 17+00 to Sta. 18+30.24 = 130.24 Lin. Ft. on SR 270



**SEC "B"**  
Bridge Section  
This Section applies from Sta. 7+45.65 to Sta 15+83.45 = 837.80 Lin. Ft.



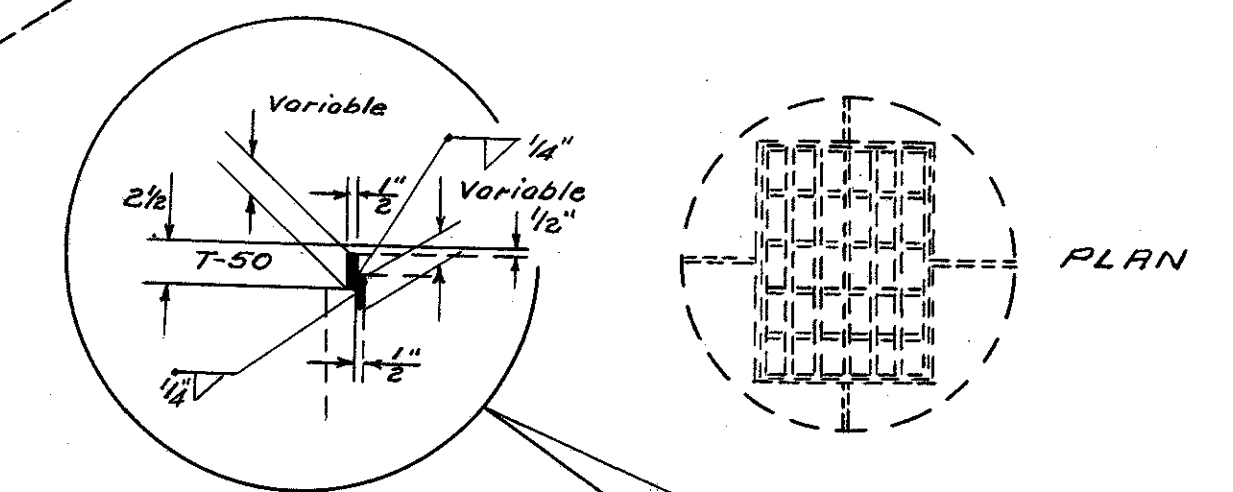
**SEC "C" ON SR-270**  
This section applies from Sta 19+40 to Sta 21+35 = 255 Lin. Ft.



DETAIL:- Showing method of lapping Longitudinal Joints.

① Item T-50, 2 1/2" Hot mixed hot laid Asphaltic Concrete Surface Course Type "B", Method "B" (1 1/2" Binder Course No 46, and 1" Wearing Course)

③ Item E-4, Borrow



CROSS SECTION

DETAIL: Showing method of raising Inlet Grates.  
Braze 1/8" hot rolled mild steel strips on frame as shown, 4 sides. Grates shall be raised to the grade to fit the Surface Course. The height of the steel strips will vary. Exposed surfaces of steel strips to be painted, after brazing, using one coat of the same bituminous material as contained in the mix. Payment to be included in the price bid for Item I-8, Inlets Adjusted to Grade.

**GENERAL NOTES**

**TRAFFIC:** Traffic shall be maintained at all times. This item shall include furnishing lights, signs, barricades and watchmen necessary to secure two-way flow of traffic 24 hours daily. The length of one-way traffic zones shall be kept to a minimum consistent with the requirements of Sec. 7-30.26 of the Specifications.

**UTILITIES:** All work required to relocate and/or adjust etc. all gas, oil, telephone, telegraph, electric, water, or other services to conform to the new grade shall be completed by the Utilities in question.

**CONTROL POINTS:** Before construction operations begin, the Engineer will reference all existing control points in the survey line. Upon the completion of the surfacing the Engineer will re-establish the Control Points in the new pavement.

**PROFILE:** The profile of the proposed surface course on the existing pavement shall be approximately 2 1/2 inches above that of the existing pavement unless otherwise shown on plan and profile sheets.

**FILLING MAJOR DEPRESSIONS:** Major depressions in the existing pavement shall be filled and compacted with Extra Binder Course Material in advance of placing the regular Binder Course. These depressions shall be filled in layers not to exceed 3 inches when compacted.

**BUTT JOINTS AND FEATHERING:** Existing bituminous surfaces shall be removed at the beginning of the job at Harrison St. on S.R. 20 to obtain a full depth Butt Joint with the new material. An estimated 50 Sq Yds shall be removed. The new Surface and Binder Courses shall be feathered to meet existing pavements at intersections.

**EXISTING GUTTERS:** Special attention shall be given to the resurfacing of existing gutters in the vicinity of drainage structures, so that deep depressions can be eliminated and permit gutter flow to reach outlets.

**RESETTING CASTINGS:** This item shall be performed after completion of binder course and prior to placing the surface course. Compaction of the material around castings inaccessible to rollers shall be in accordance with the requirements of Sec 7-50.21. Portions of the existing pavement removed to adjust manhole and other castings to the grade of the new surface shall be replaced full depth with Class "C" Concrete.

**UTILITIES OWNERSHIP:** The Ohio Bell Telephone Co and A.T. & T. Electric Power - Lucas and Wood Counties. Water Line - Village of Perrysburg.

**PAVEMENT COMPUTATIONS**

**SEC "A" (Village of Maumee)** Sta 0+32 to Sta 7+45.65 = 713.65 Lin. Ft.  
 T-50,  $(713.65 \times 36) \div 9 = 2,855$  Sq. Yds.  
 Add from I-P  $\frac{402}{3,257}$  Sq. Yds.

T-50, Extra Binder = 46 Cu Yds on US-20

**SEC "B" (Lucas Co, Rural)** Sta 7+45.65 to Sta 11+64.55 = 418.90 Lin Ft  
 T-50  $(418.90 \times 36) \div 9 = 1,676$  Sq Yds on US-20  
 T-50, Extra Binder = 24 Cu Yds on US-20

**SEC "B" (Wood Co, Rural)** Sta 11+64.55 to Sta 15+83.45 = 418.90 Lin.Ft.

**SEC "A"** Sta 15+83.45 to Sta 26+95 = 1,111.55 Lin.Ft.  
 T-50  $(1,111.55 \times 36) \div 9 = 4,446$  Sq Yds  
 Sta 17+00 to Sta 18+90.24 = 190.24 Lin Ft on SR 270  
 T-50  $(190.24 \times 36) \div 9 = 761$  Sq Yds  
 Add for 2-P & 4-P (350+156) = 506 Sq Yds  
 Total = 1,676 + 4,446 + 761 + 506 = 7,389 Sq Yds  
 T-50, Extra Binder on U.S.20 only = 62 Cu Yds

**SEC "C" (SR 270, Rural)** Sta 19+40 to Sta 21+95 = 255 Lin.Ft.  
 $(255 \times 20) \div 9 = 567$  Sq Yds

Total Rural Wood Co = (from above) = 6,122 Sq Yds on US-20  
 Total Rural Wood Co = 761 + 567 + 506 = 1,834 Sq Yds on S.R. 270

**SEC "A" (Village of Perrysburg)** Sta 26+95 to Sta 34+28 = 733 Lin.Ft.  
 T-50  $(733 \times 36) \div 9 = 2,932$  Sq Yds  
 Add for 3-P = 2915 Sq Yds  
 Total = 5,847 Sq Yds  
 T-50, Extra Binder = 41 Cu Yds

**E-8, Removal of Existing Wearing Surface**  
 Sta 0-30 Ft to 0-19 Ft = 11 Ft  
 $(11 \times 54) \div 9 = 66$  Sq Yds (Maumee on US-20)  
 Sta 36+50 = 10 Sq Yds (Perrysburg on W. Boundary St.)

**E-4, Borrow on S.R. 270, Wood County**  
 From Sta 18+90.24 to Sta 21+95 = 305 Lin.Ft.  
 $(305 \times 4 \times 0.15 \times 2) \div 27 = 14$  Cu Yds.

**EXTRA PAVEMENT-P**

Ref. No	Sheet	T-50 Sq Yds	Remarks
1-P	4	402	In the Village of Maumee on US-20.
2-P	5	350	In Wood County on S.R. 270.
3-P	6	2915	In the Village of Perrysburg on US-20.
4-P	6	156	In Wood County on S.R. 270.

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		1950

3  
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LUCAS COUNTY  
 LUC-20-(19.04-19.17)  
 WOOD COUNTY  
 WOO-20(0.00-0.29)  
 WOO-270-0.12

**CASTINGS TO BE ADJUSTED TO GRADE (US-20)**

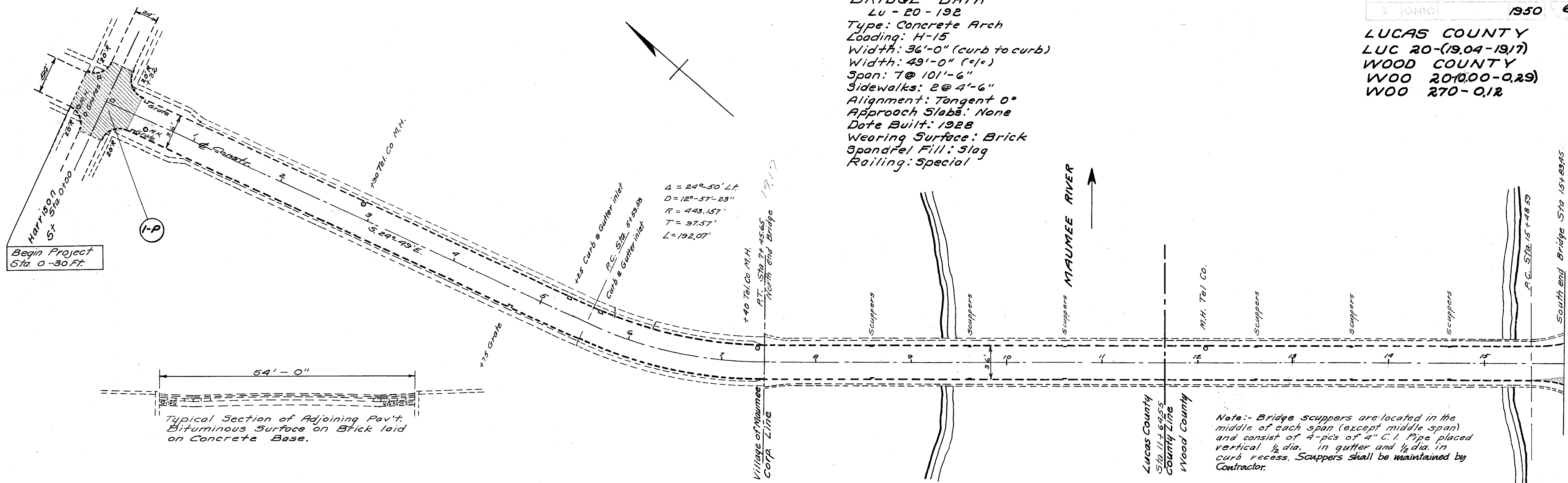
Station	Sheet	Kind or Type	Remarks
0-22	4	M.H. Sewer	To Be Raised By Contractor
0-12	4	2 Grates	
0+38	4	2 Grates	
0+50	4	M.H. Comb. Sewer	
2+90	4	M.H. Tel. Co.	To Be Raised By Telephone Co.
4+75	4	Grate	To Be Raised By Contractor
5+25	4	Curb & Gutter Inlet	Grate To Be Raised By Contractor
5+60	4	Curb & Gutter Inlet	
7+40	4	M.H. Tel. Co.	To Be Raised By Telephone Co.
12+08	4	M.H. Tel. Co.	
16+83	5	M.H. Sewer	To Be Raised By Contractor
17+60	5	M.H. Tel. Co.	To Be Raised By Telephone Co.
18+34	5	M.H. Sewer	To Be Raised By Contractor
18+34	5	Grate	
21+76	5	M.H. Sewer	
21+76	5	2-Curb & Gutter Inlets	Grates
21+88	5	M.H. Tel. Co.	To Be Raised By Telephone Co.
26+52	5		
26+65	5		
27+25	5	M.H. Sewer	To Be Raised By Contractor
27+25	5	2-Curb & Gutter Inlets	Grates
31+44	5	Grate	
33+19	6	Grate	
36+08.76	6	Monument Box	
36+10	6	Grate	
36+12	6	M.H. Tele. Co.	To Be Raised By Telephone Co.
36+15	6	Water Valve	To Be Raised By Perrysburg
36+30	6	Grate	To Be Raised By Contractor
<b>ON S.R. 270</b>			
18+36	6	Grate	To Be Raised By Contractor
<b>Totals (Both Routes)</b>			
Number	Kind or Type	Disbursement	
17	Inlets	To Be Raised By Contractor	
6	Manholes	To Be Raised By Contractor	
8	Manholes	To Be Raised By Telephone Co.	
1	Monument Box	To Be Raised By Contractor	
1	Water Valve	To Be Raised By Village of Perrysburg.	

**GENERAL SUMMARY**

Item	Municipal	Rural	Project	Unit	Description		
	Village of Maumee	Lucas Co. Wood Co.	US-20 SR-270	Total			
E-4			14	14	Cu Yds Borrow		
E-8	66	10		76	Sq Yds Removal and Disposal of Existing Bituminous Wearing Surface.		
I-8	2	1	3	6	Each Manholes Adjusted to Grade.		
I-8	7	6	3	17	Each Inlets Adjusted to Grade as per plan.		
I-8		1		1	Each Monument Box Adjusted to Grade.		
T-50	3,257	5,847	1,676	6,122	18,334	Sq Yds 2 1/2" Hot-Mixed, Hot-Laid Asphaltic Concrete Surface Course, Type "B" (60-70)	
T-50	46	41	24	62	0	173	Cu Yds Extra Binder (60-70)

LUCAS COUNTY  
LUC 20-(19.04-1917)  
WOOD COUNTY  
WOO 2010.00-0.29  
WOO 270-0.12

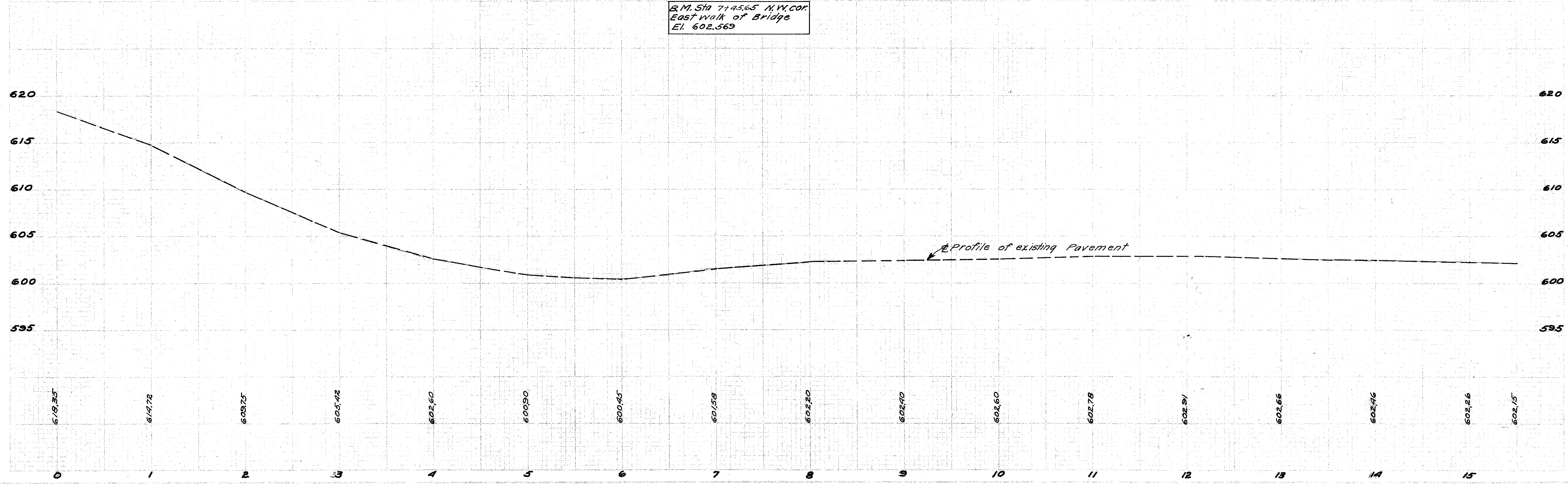
**- BRIDGE DATA -**  
Lu - 20 - 192  
Type: Concrete Arch  
Loading: H-15  
Width: 36'-0" (curb to curb)  
Width: 49'-0" (c/c)  
Span: 7 @ 101'-6"  
Sidewalks: 2 @ 4'-6"  
Alignment: Tangent 0°  
Approach Slabs: None  
Date Built: 1928  
Wearing Surface: Brick  
Spandrel Fill: Slag  
Railing: Special



$\Delta = 24^{\circ}-50'$  L.A.  
 $D = 12^{\circ}-37'-23''$   
 $R = 443.157'$   
 $T = 97.57'$   
 $L = 192.07'$

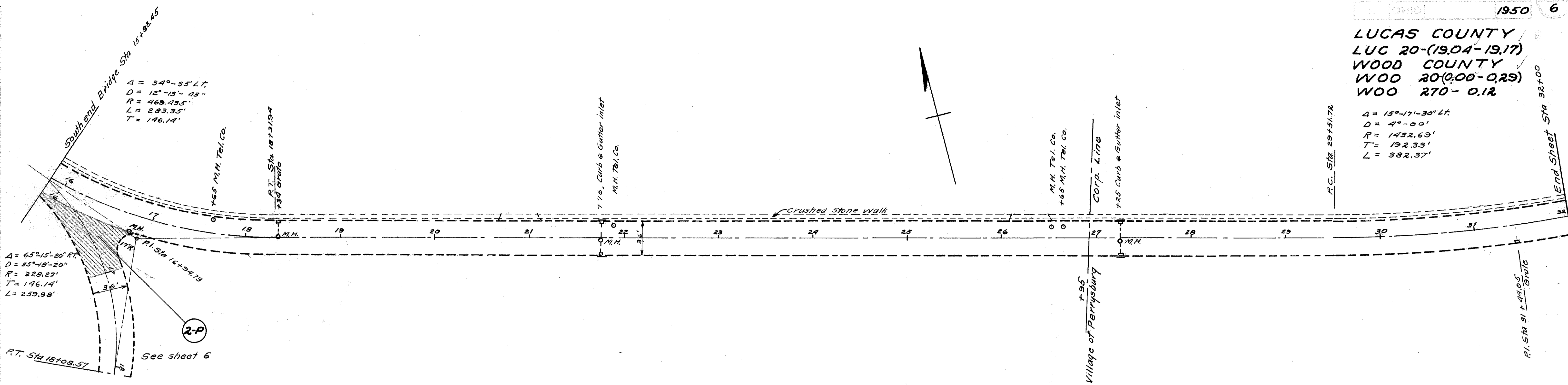
B.M. Sta 7+45.65 N.W. COR.  
East Walk of Bridge  
El. 602.569

Note:- Bridge scuppers are located in the middle of each span (except middle span) and consist of 4-pcs of 4" C.I. Pipe placed vertical 1/2 dia. in gutter and 1/2 dia. in curb recess. Scuppers shall be maintained by Contractor.



LUCAS COUNTY  
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 WOOD COUNTY  
 WOO 20(0.00-0.29)  
 WOO 270-0.12

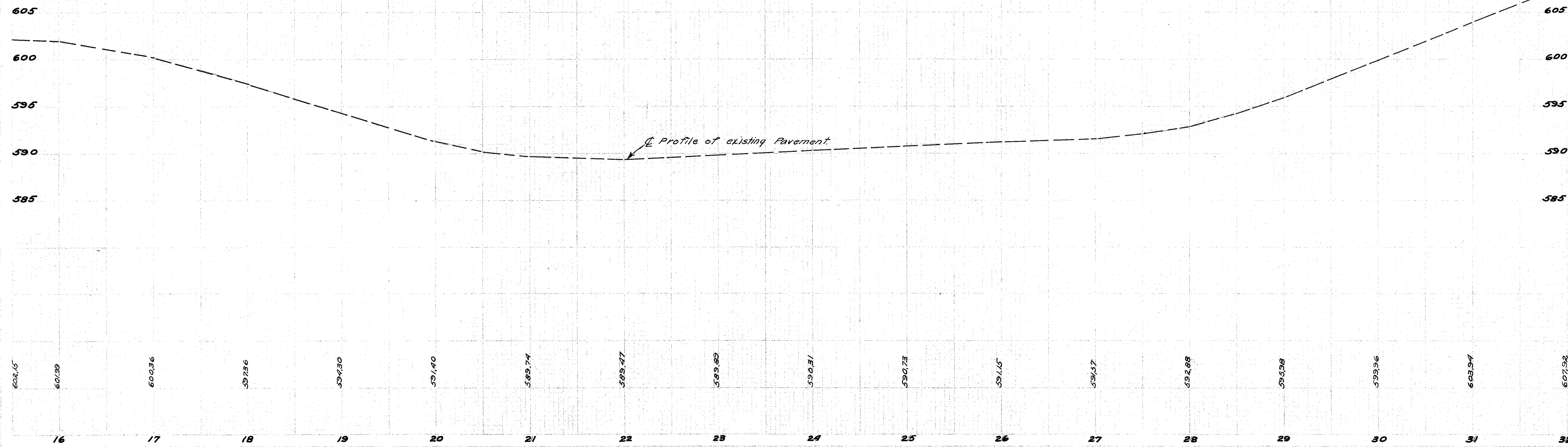
$\Delta = 15^{\circ}-17'-30''$  Lt.  
 $D = 4^{\circ}-00'$   
 $R = 1452.69'$   
 $T = 192.33'$   
 $L = 382.37'$



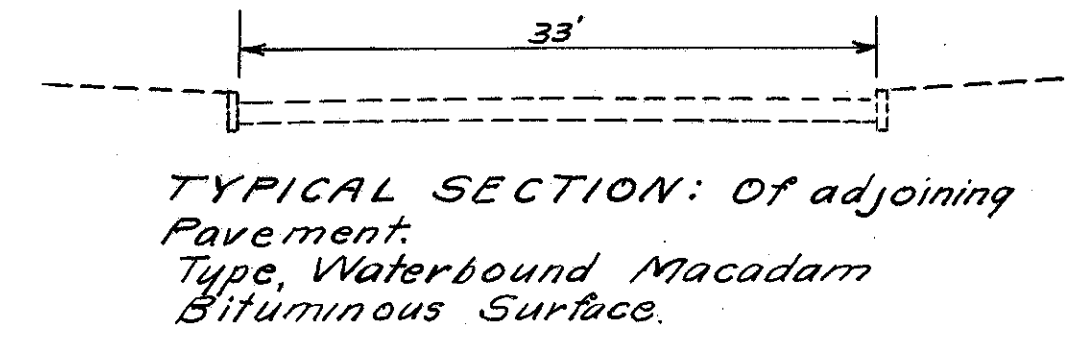
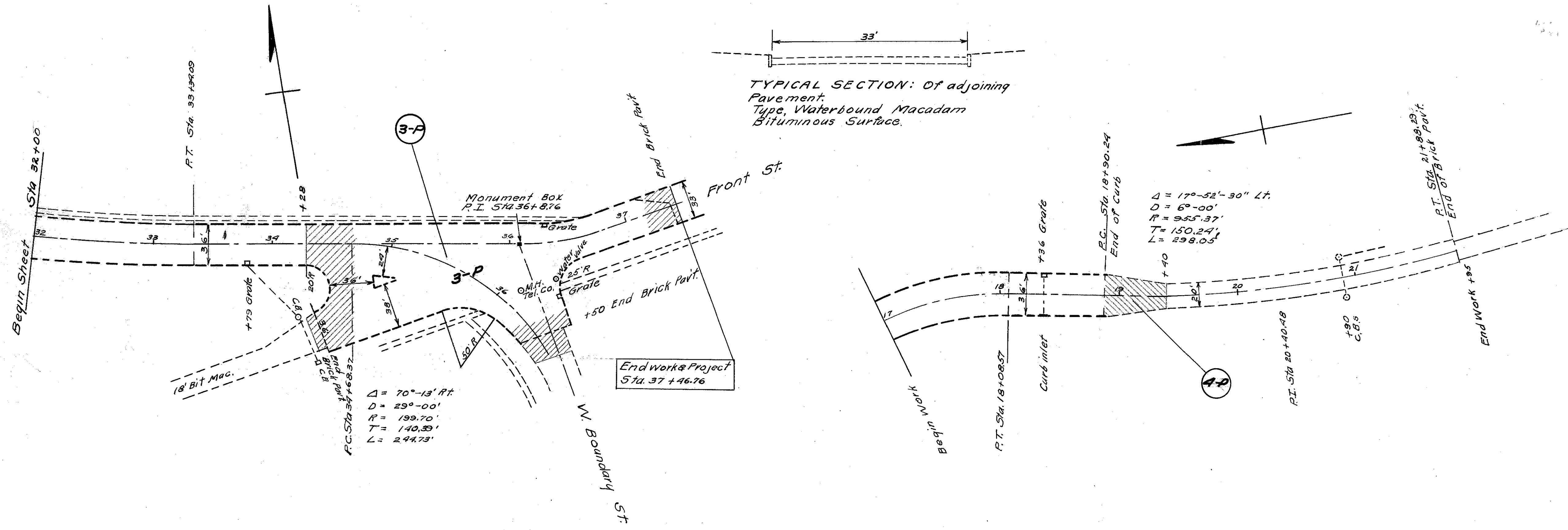
$\Delta = 65^{\circ}-15'-20''$  Rt.  
 $D = 25^{\circ}-18'-20''$   
 $R = 228.27'$   
 $T = 146.14'$   
 $L = 259.98'$

See sheet 6

B.M. Sta 15+83, S.W. cor.  
 east sidewalk  
 E.I. 602.592

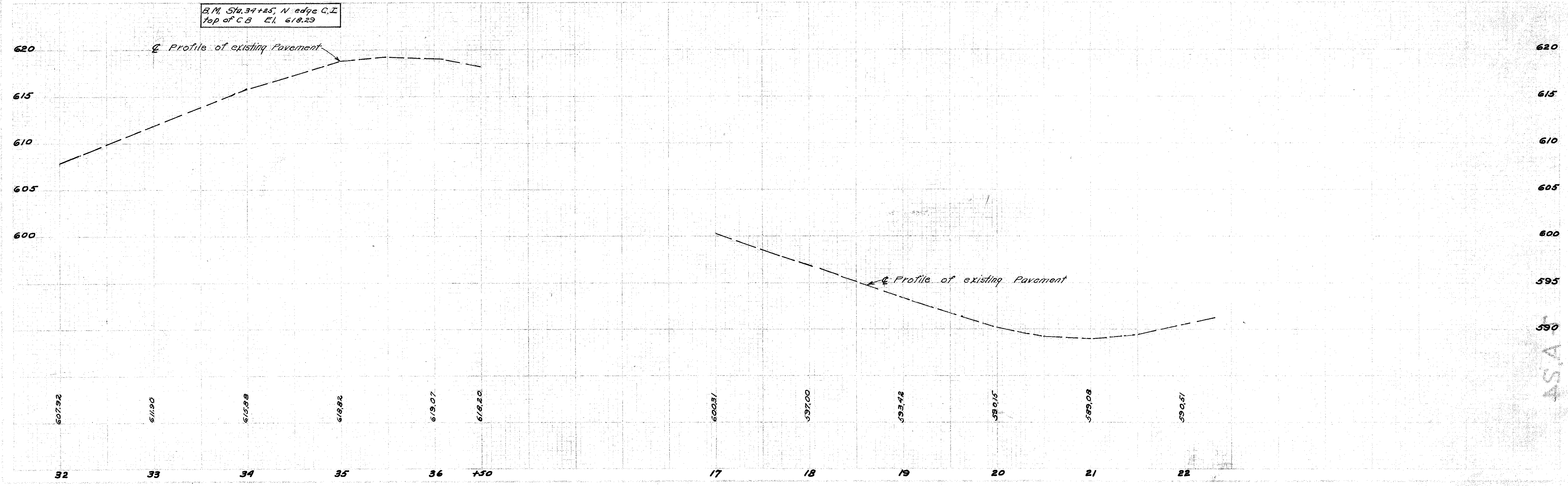


LUCAS COUNTY  
LUC 20-(19.04-19.17)  
WOOD COUNTY  
WOO 20-(0.00-0.29)  
WOO 270-0.12



$\Delta = 17^\circ-52'-30'' Lt.$   
 $D = 6^\circ-00'$   
 $R = 935.37'$   
 $T = 150.24'$   
 $L = 298.05'$

B.M. Sta. 34+25, N edge C.I. top of C.B. El. 618.29



ASA