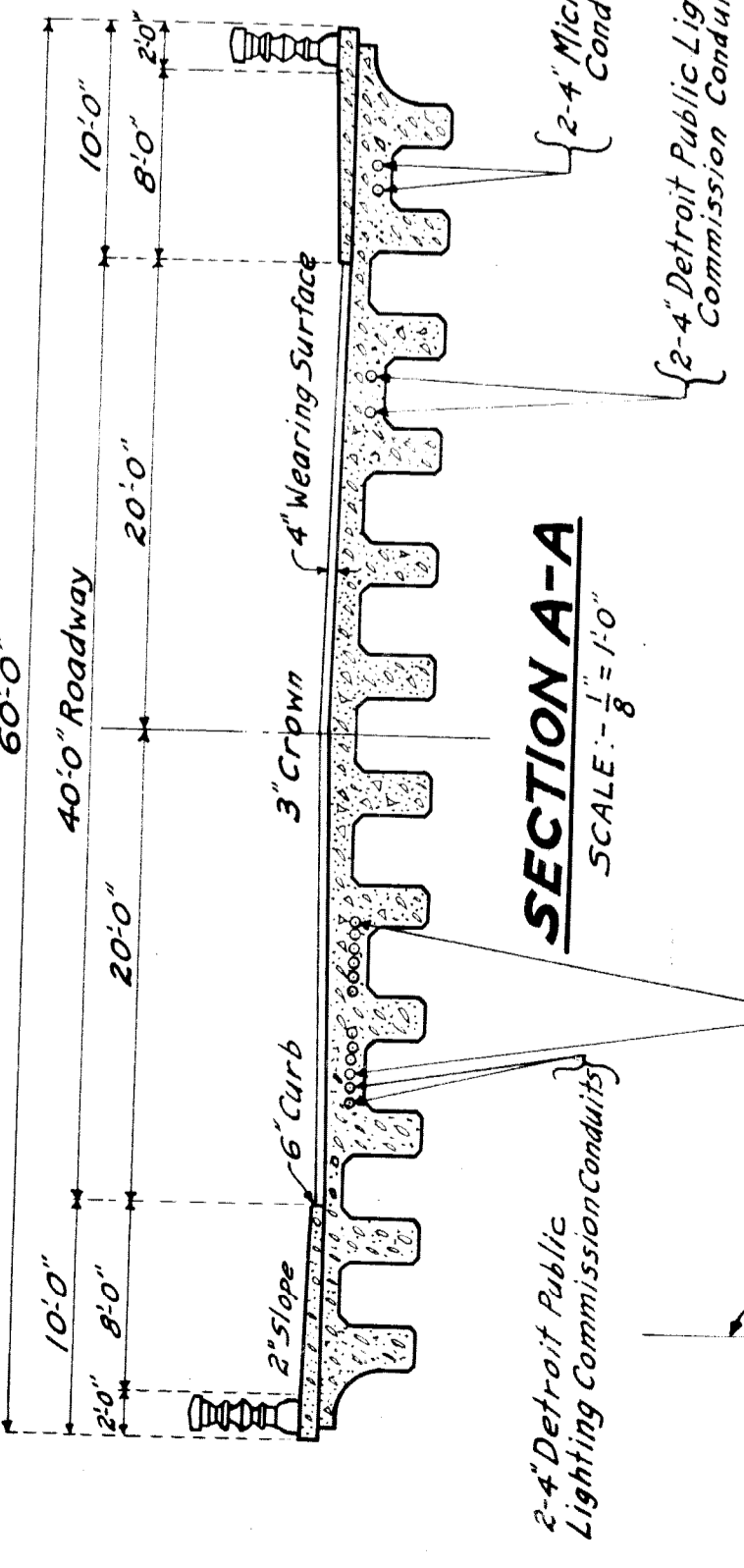
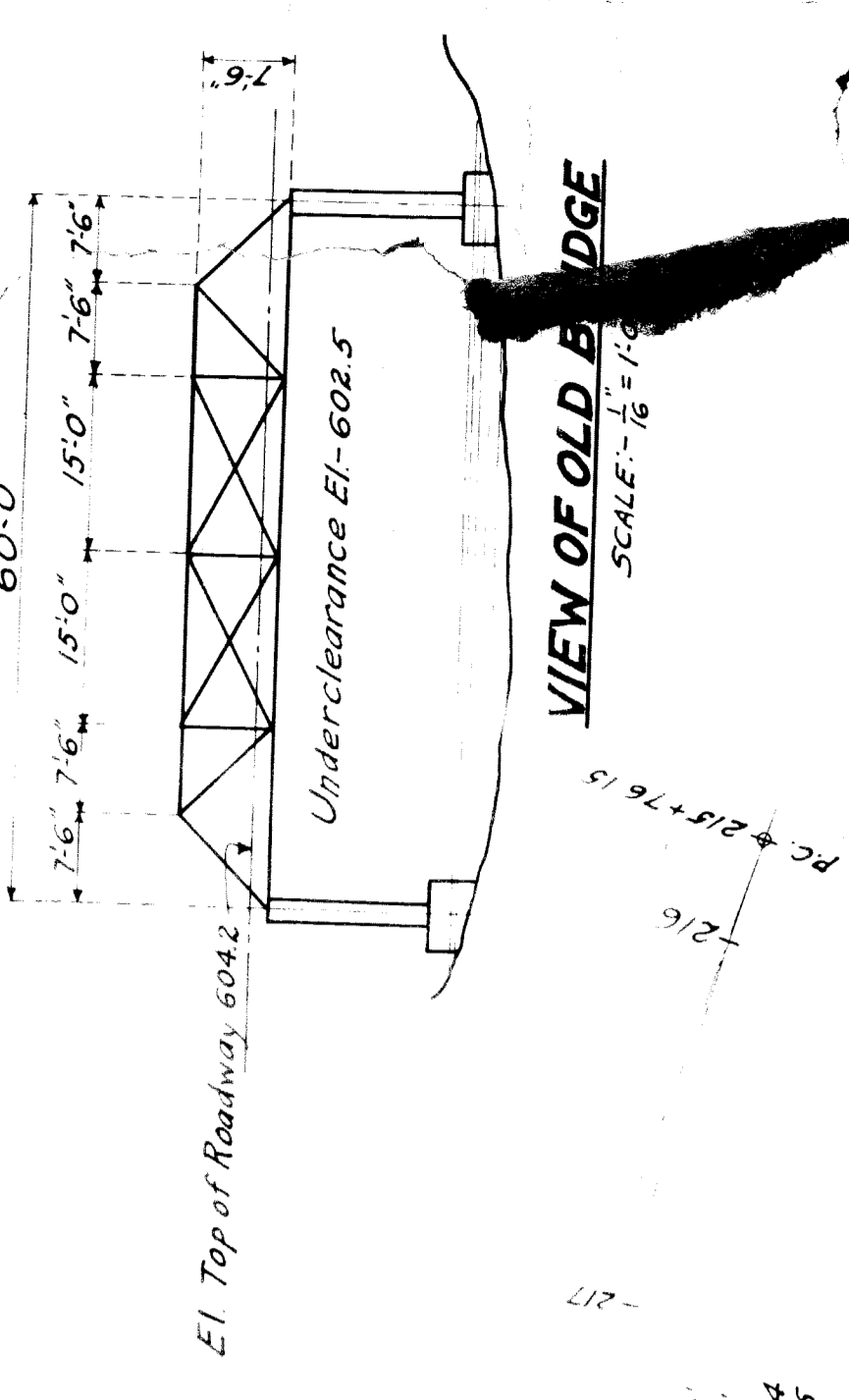
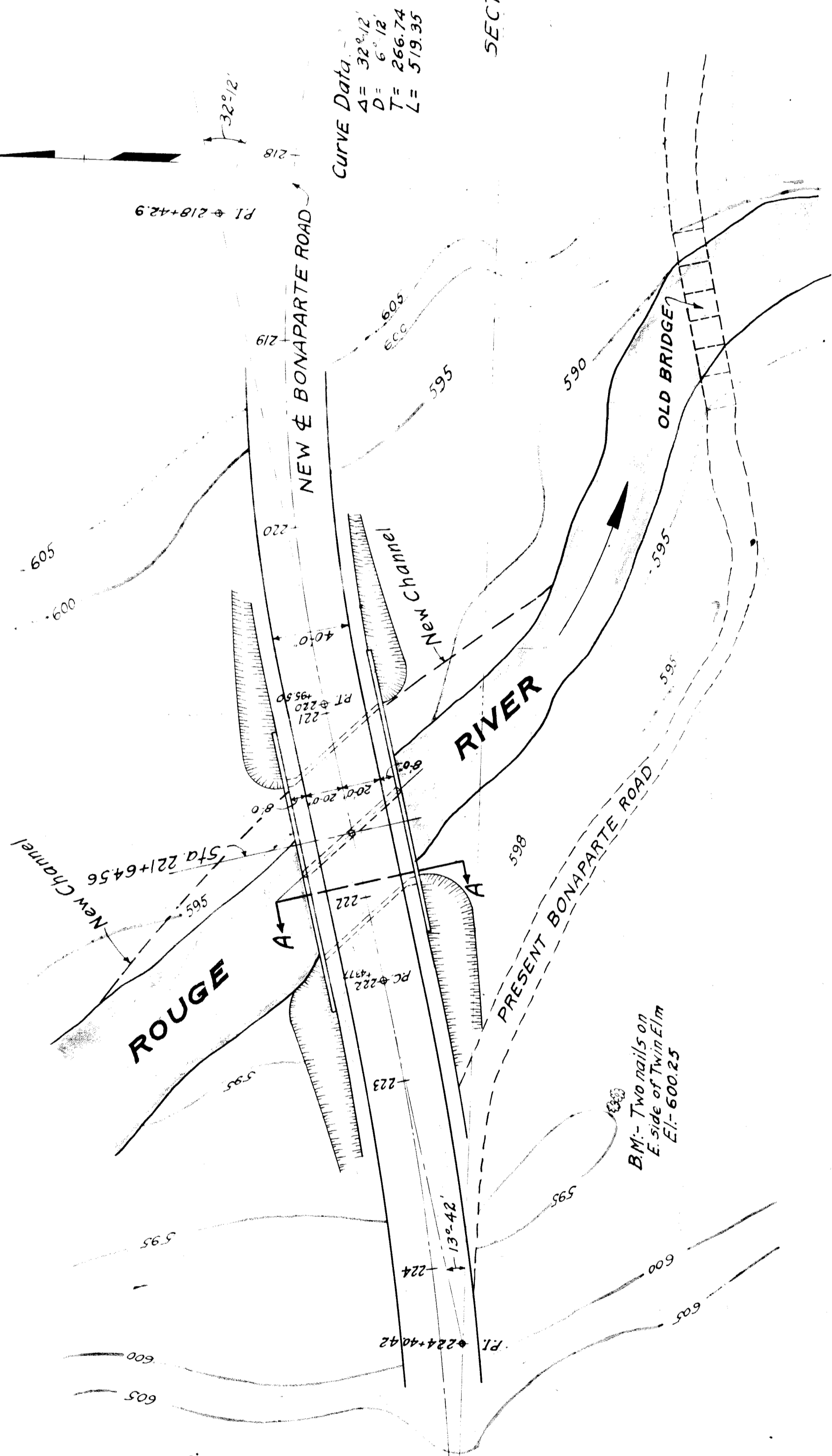
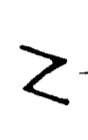


PROFILE NEW & BONAPARTE ROAD
SCALE - Vert. $1''=50'$
Horiz. $1''=50'$



Curve Data :-
 $\Delta = 13^\circ 42'$
 $D = 3^\circ 30'$
 $T = 196.65'$
 $L = 391.42'$



REVISIONS

No.	Description

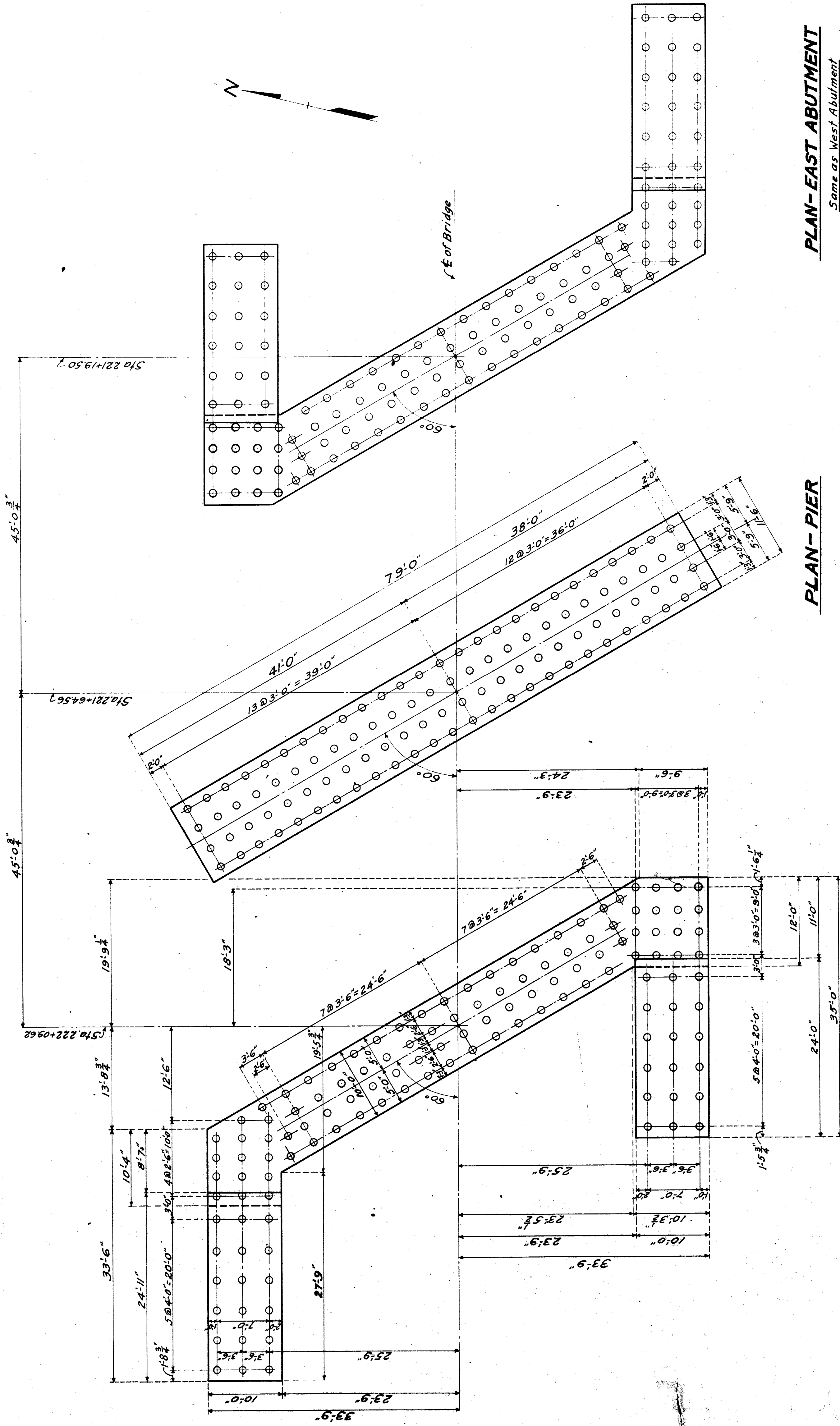
BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 EDWARD N. HINES, CHAIRMAN
 WILLIAM F. BUTLER, COMMISSIONER
 JOHN S. HAGGERTY, COMMISSIONER

LOCATION PLAN
 BONAPARTE ROAD - MILE: 4.2
 BR # 820312 OVER ROUGE RIVER

DESIGNED BY W.H.S.
 DRAWN BY S.L.
 DATE 11-6-26
 SCALE AS SHOWN
 CHECKED BY A.H.G.
 SCALE AS SHOWN

APPROVED: [Signature]
 Reg. Civ. Eng.

SHEET NO. 1

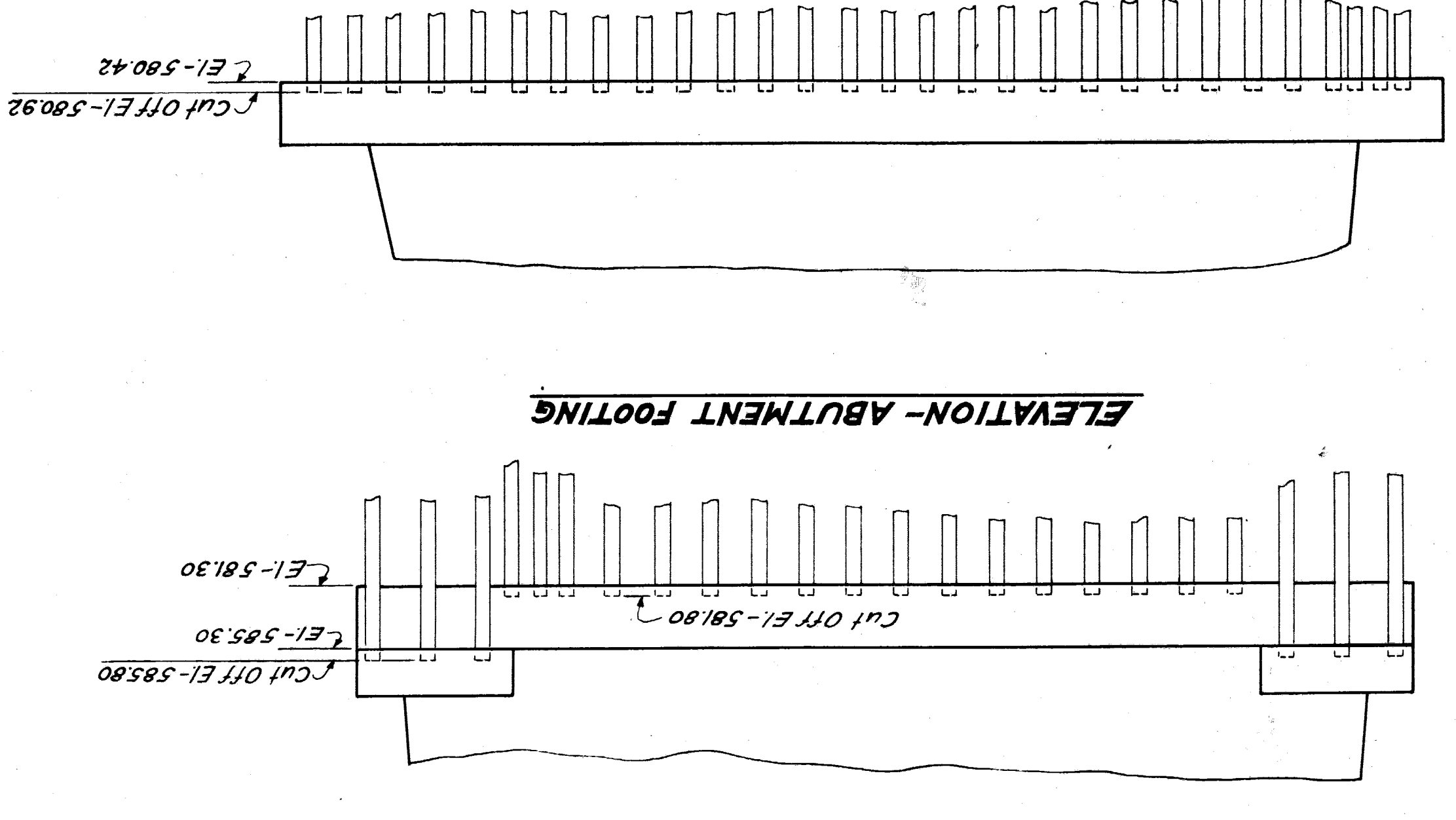


PLAN-PIER

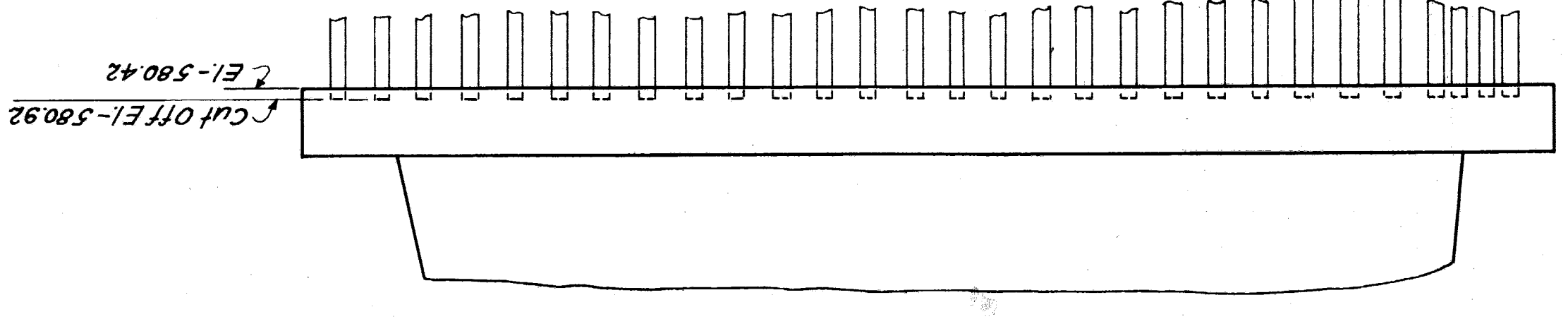
PLAN-WEST ABUTMENT

PLAN-EAST ABUTMENT

Same as West Abutment



ELEVATION-ABUTMENT FOOTING



ELEVATION-PIER FOOTING

NOTES

Piling: Piles according to this diagram if piles are considered necessary by the Engineer. The length shall be determined after test piles are driven. The assumed length is 25'-0". 362 piles @ 25'-0" = 9050 linft. If piles are not required, the elevation of the bottom of the footing shall be 2 inches below center elevation, giving 4 in. from bottom of footing to reinforcing steel. To Pressure

Abutments: Average Pressure 3410 $\frac{1}{2}$ lbs. To Pressure 1840 $\frac{1}{2}$ lbs. Wings 1796 $\frac{1}{2}$ lbs. Pier 3306 $\frac{1}{2}$ lbs.

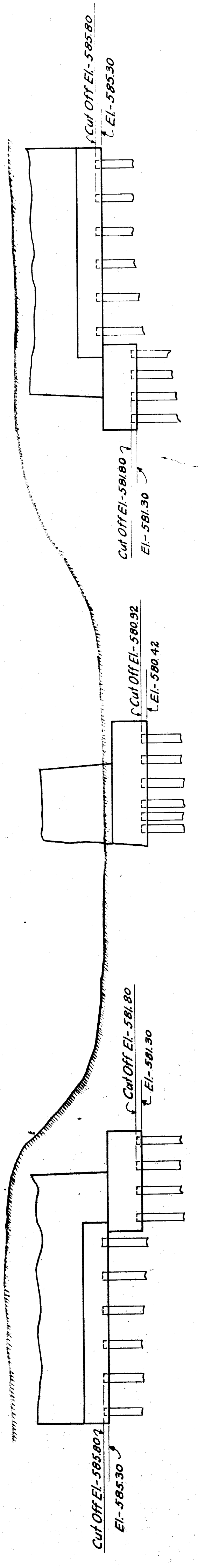
REVISIONS

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 EDWARD N. HINES, CHAIRMAN
 WILLIAM F. BUTLER, COMMISSIONER
 N. S. HAGGERTY, COMMISSIONER

DIGGING PLAN
BONAPARTE ROAD—MILE 4.2
BR. # 820312 OVER ROUGE RIVER

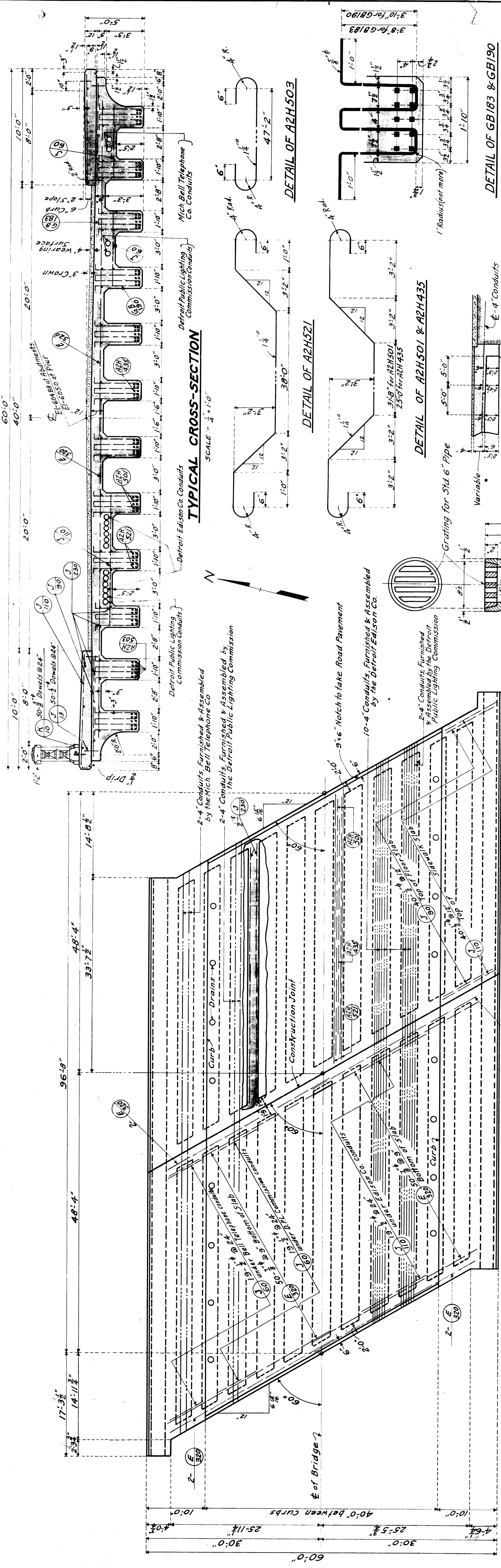
DESIGNED BY: S. L. S. LITZ
 DRAWN BY: S. L. S. LITZ
 DATE: NOV. 10, 1926
 SCALE: 1/8" = 1'-0"

CHECKED BY: S. L. S. LITZ
 CORRECT BY: S. L. S. LITZ
 APPROVED BY: S. L. S. LITZ
 ENGINEER



PLAN-WEST ABUTMENT

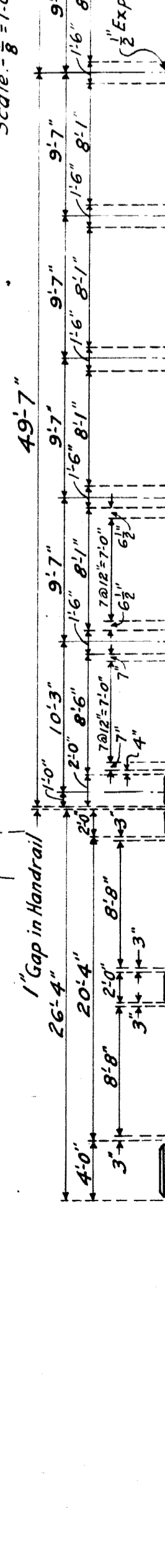
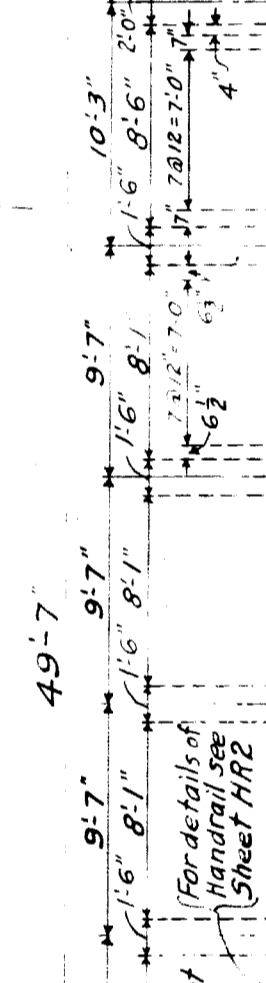
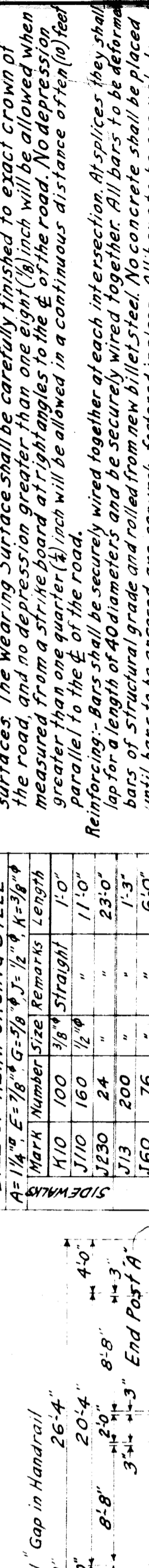
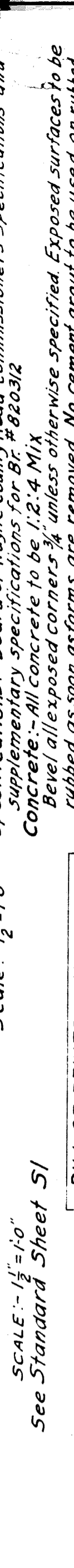
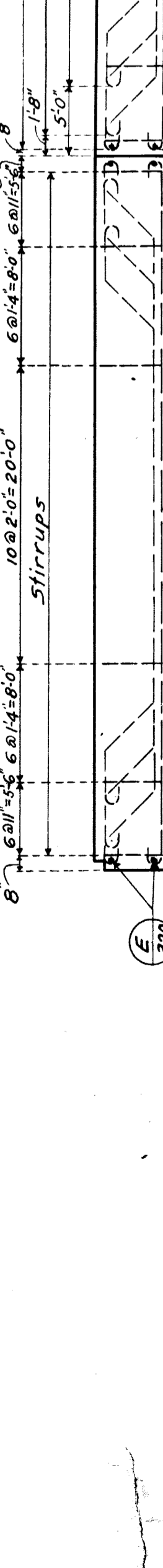
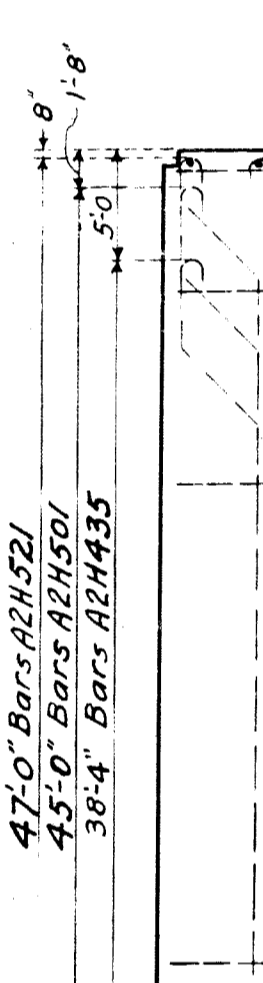
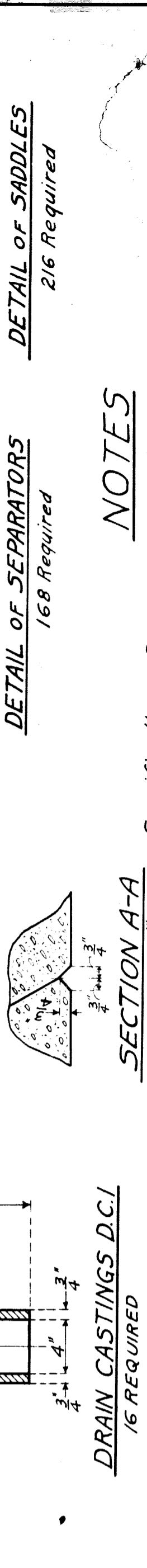
PLAN-EAST ABUTMENT



PLAN
Scale: $\frac{1}{8}'' = 1'-0''$

TYPICAL BEAM REINFORCEMENT
Scale: $\frac{1}{8}'' = 1'-0''$

TYPICAL CROSS-SECTION
Scale: $\frac{1}{4}'' = 1'-0''$



BILL OF REINFORCING STEEL
Scale: $\frac{1}{8}'' = 1'-0''$
See Standard Sheet S1

MARK	Quantity	Remarks	Length
A1	100	1/2" G-50	1'-0"
A2	100	1/2" G-50	1'-0"
A3	200	1/2" G-50	2'-0"
A4	200	1/2" G-50	2'-0"
A5	200	1/2" G-50	2'-0"
A6	200	1/2" G-50	2'-0"
A7	200	1/2" G-50	2'-0"
A8	200	1/2" G-50	2'-0"
A9	200	1/2" G-50	2'-0"
A10	200	1/2" G-50	2'-0"
A11	200	1/2" G-50	2'-0"
A12	200	1/2" G-50	2'-0"
A13	200	1/2" G-50	2'-0"
A14	200	1/2" G-50	2'-0"
A15	200	1/2" G-50	2'-0"
A16	200	1/2" G-50	2'-0"
A17	200	1/2" G-50	2'-0"
A18	200	1/2" G-50	2'-0"
A19	200	1/2" G-50	2'-0"
A20	200	1/2" G-50	2'-0"
A21	200	1/2" G-50	2'-0"
A22	200	1/2" G-50	2'-0"
A23	200	1/2" G-50	2'-0"
A24	200	1/2" G-50	2'-0"
A25	200	1/2" G-50	2'-0"
A26	200	1/2" G-50	2'-0"
A27	200	1/2" G-50	2'-0"
A28	200	1/2" G-50	2'-0"
A29	200	1/2" G-50	2'-0"
A30	200	1/2" G-50	2'-0"
A31	200	1/2" G-50	2'-0"
A32	200	1/2" G-50	2'-0"
A33	200	1/2" G-50	2'-0"
A34	200	1/2" G-50	2'-0"
A35	200	1/2" G-50	2'-0"
A36	200	1/2" G-50	2'-0"
A37	200	1/2" G-50	2'-0"
A38	200	1/2" G-50	2'-0"
A39	200	1/2" G-50	2'-0"
A40	200	1/2" G-50	2'-0"
A41	200	1/2" G-50	2'-0"
A42	200	1/2" G-50	2'-0"
A43	200	1/2" G-50	2'-0"
A44	200	1/2" G-50	2'-0"
A45	200	1/2" G-50	2'-0"
A46	200	1/2" G-50	2'-0"
A47	200	1/2" G-50	2'-0"
A48	200	1/2" G-50	2'-0"
A49	200	1/2" G-50	2'-0"
A50	200	1/2" G-50	2'-0"
A51	200	1/2" G-50	2'-0"
A52	200	1/2" G-50	2'-0"
A53	200	1/2" G-50	2'-0"
A54	200	1/2" G-50	2'-0"
A55	200	1/2" G-50	2'-0"
A56	200	1/2" G-50	2'-0"
A57	200	1/2" G-50	2'-0"
A58	200	1/2" G-50	2'-0"
A59	200	1/2" G-50	2'-0"
A60	200	1/2" G-50	2'-0"
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A62	200	1/2" G-50	2'-0"
A63	200	1/2" G-50	2'-0"
A64	200	1/2" G-50	2'-0"
A65	200	1/2" G-50	2'-0"
A66	200	1/2" G-50	2'-0"
A67	200	1/2" G-50	2'-0"
A68	200	1/2" G-50	2'-0"
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A71	200	1/2" G-50	2'-0"
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A74	200	1/2" G-50	2'-0"
A75	200	1/2" G-50	2'-0"
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A77	200	1/2" G-50	2'-0"
A78	200	1/2" G-50	2'-0"
A79	200	1/2" G-50	2'-0"
A80	200	1/2" G-50	2'-0"
A81	200	1/2" G-50	2'-0"
A82	200	1/2" G-50	2'-0"
A83	200	1/2" G-50	2'-0"
A84	200	1/2" G-50	2'-0"
A85	200	1/2" G-50	2'-0"
A86	200	1/2" G-50	2'-0"
A87	200	1/2" G-50	2'-0"
A88	200	1/2" G-50	2'-0"
A89	200	1/2" G-50	2'-0"
A90	200	1/2" G-50	2'-0"
A91	200	1/2" G-50	2'-0"
A92	200	1/2" G-50	2'-0"
A93	200	1/2" G-50	2'-0"
A94	200	1/2" G-50	2'-0"
A95	200	1/2" G-50	2'-0"
A96	200	1/2" G-50	2'-0"
A97	200	1/2" G-50	2'-0"
A98	200	1/2" G-50	2'-0"
A99	200	1/2" G-50	2'-0"
A100	200	1/2" G-50	2'-0"

QUANTITIES

Concrete - 47800 cu ft
Slab and Beams 6790
Sidewalks 990
Additional due to Det. Edison Co. Conduits 990
D.P.L. Commission 940
Mich. Bell Tel. Co. 700
Total = 57750 cu ft

Reinforcing Steel - 98609 lbs
Slab, Beams and Sidewalks 98609
Additional due to Det. Edison Co. Conduits 366
D.P.L. Commission 366
Mich. Bell Tel. Co. 366
Total = 99609 lbs

Wearing Surface 430 sq yds
Precast Handrail 3031/2 lbs

NOTES

Specifications - Board of Wayne County Road Commissioners specifications and Supplementary specifications for BR #820312
Concrete - All concrete to be 1.2.4 Mix
Level all exposed corners unless otherwise specified. Exposed surfaces to be rubbed as soon as forms are removed. No cement grout to be used on rubbed surfaces. The wearing surface shall be carefully finished to exact crown of the road, and no depression greater than one eighth (1/8) inch will be allowed when measured from a straight edge applied at right angles to the E. or the road. No depression parallel to the E. of the road.
Reinforcing - Bars shall be securely wired together at each intersection. At splices they shall lap for a length of 40 diameters and be securely wired together. All bars to be placed until bars to be encased are securely fastened in place. All bars to be securely lagged before shipping to job.
Construction Joints - Construction joints shall be located as shown.
Waterproofing - Surface of floor slab covered by wearing surface to be given heavy coat (about 1/2") of approved Asphaltic Waterproofing furnished by Board of Wayne County Road Commissioners.

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
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WILLIAM F. BUTLER, COMMISSIONER
JOHN S. HAGGERTY, COMMISSIONER

SUPERSTRUCTURE
BONAPARTE ROAD - MILE 4.2
BR #820312 OVER ROUGE RIVER

DESIGNED BY: S. Lifshitz
DRAWN BY: S. Lifshitz
CHECKED BY: F.H.C.
DATE: NOV. 3, 1926
SCALE: As Shown

APPROVED: [Signature]
SHEET NO. 4

REVISIONS

NO.	DESCRIPTION	DATE
1	Exp. Joints in Railings added	1-27
2	S.L. No. 2-7-27	

ELEVATION
Scale: $\frac{1}{8}'' = 1'-0''$