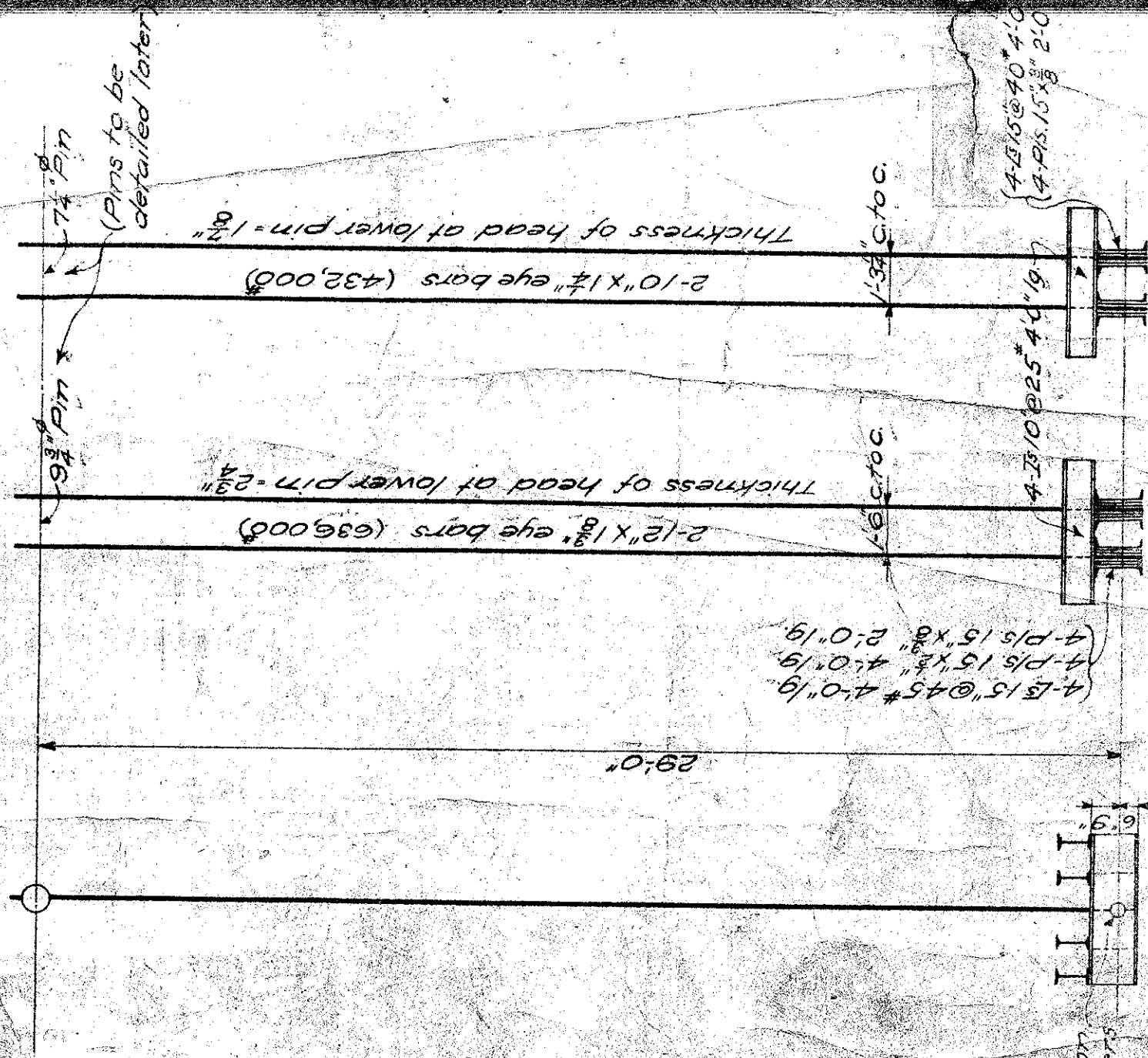


Live Load Anchorage

For

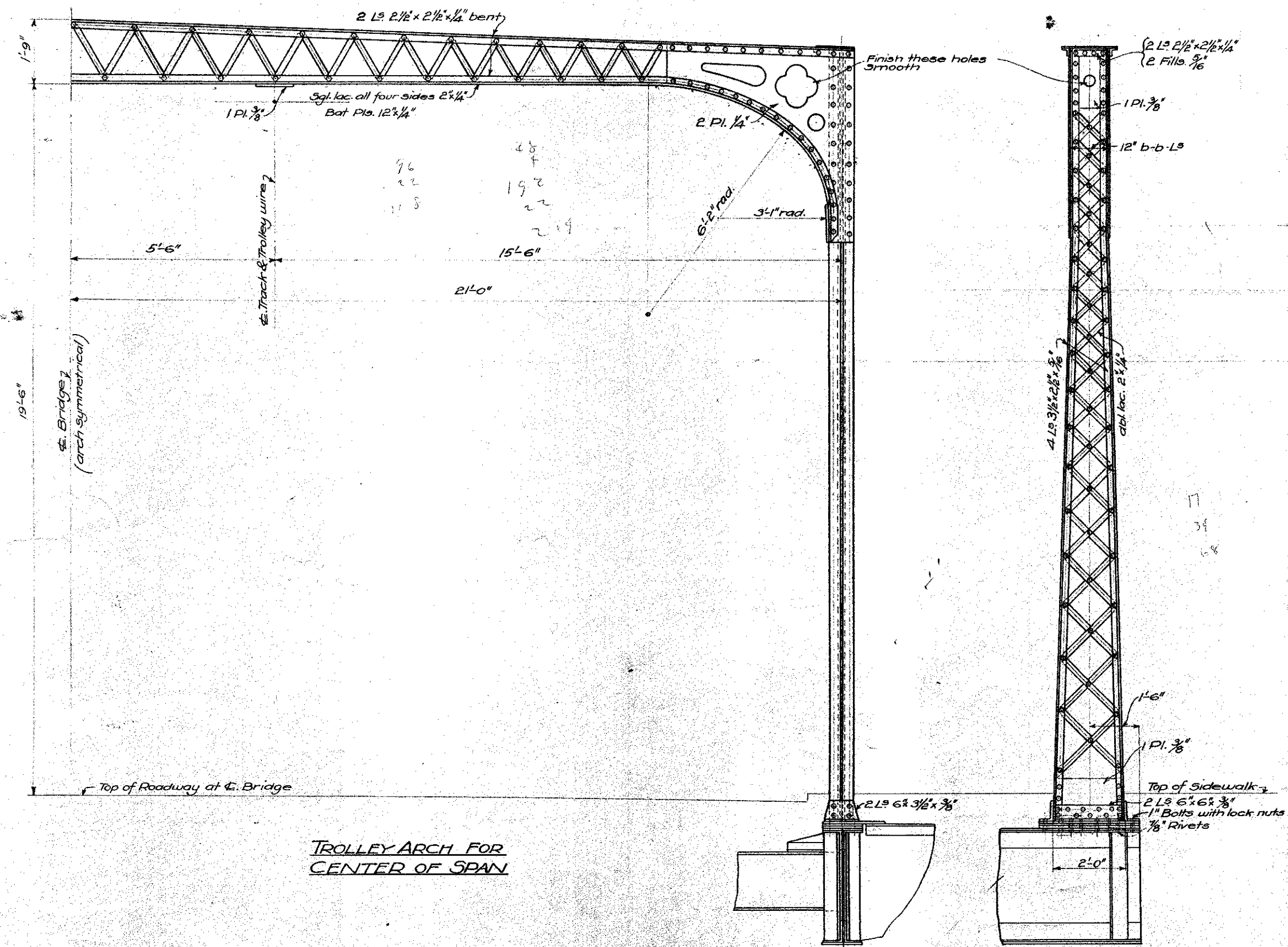
Military Street Bridge

PORT HURON, MICH

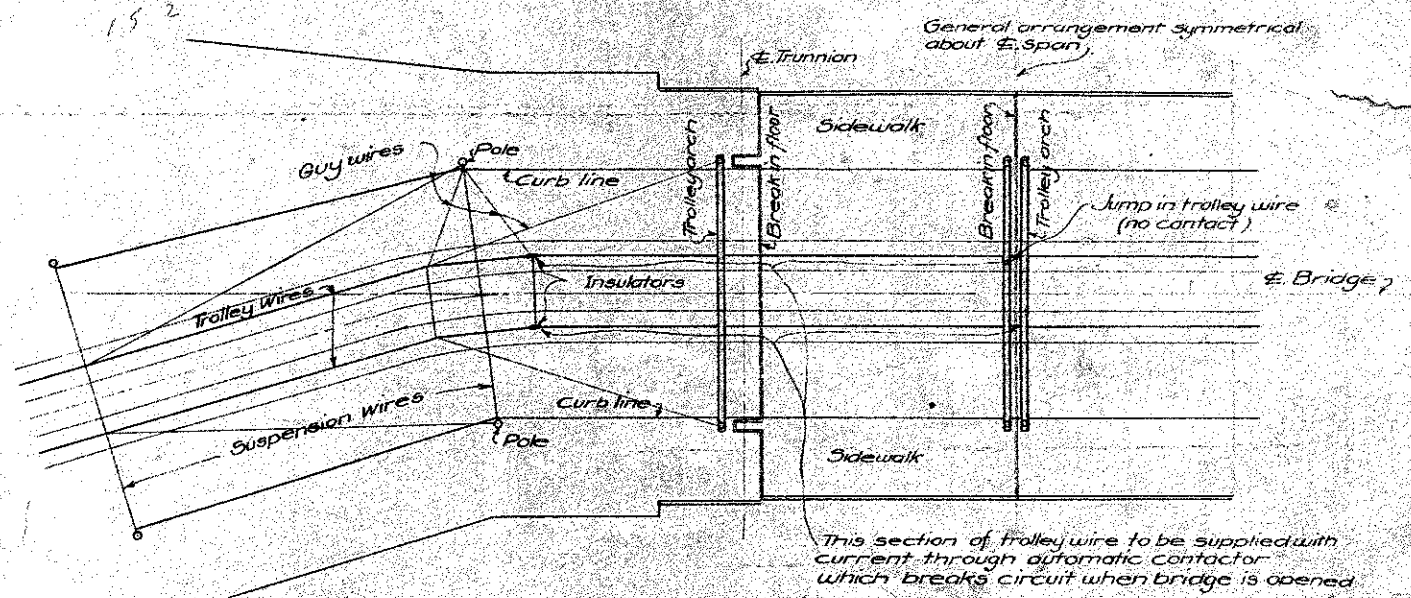


-A-75-

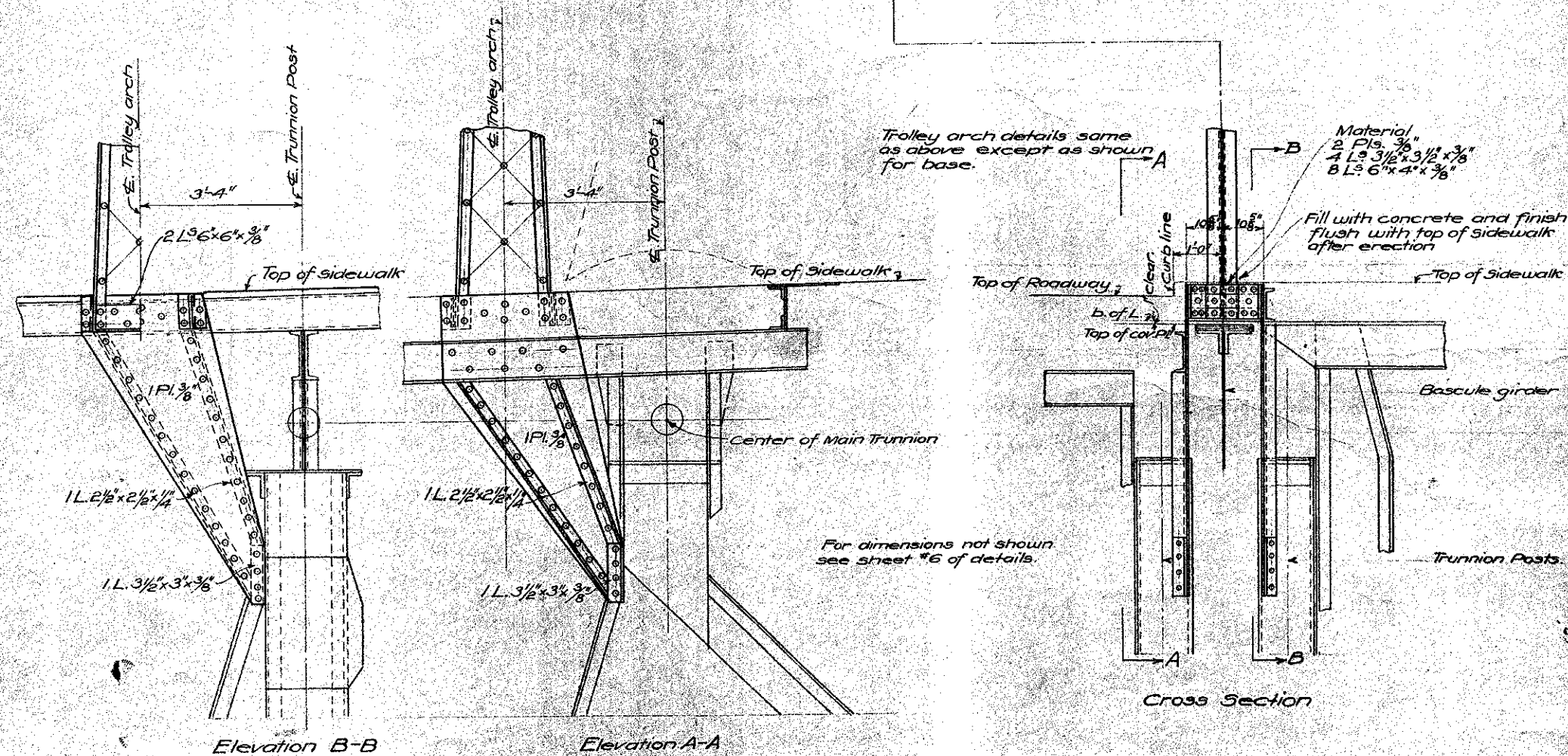
10/29/2



TROLLEY ARCH FOR
CENTER OF SPAN



GENERAL PLAN



TROLLEY ARCH FOR
TRUNNION ENDS OF BRIDGE

Gen'l. Note:
Material and workmanship as per specifications.
Rivets 3/4" unless noted.
Specifications: See sheet #2.

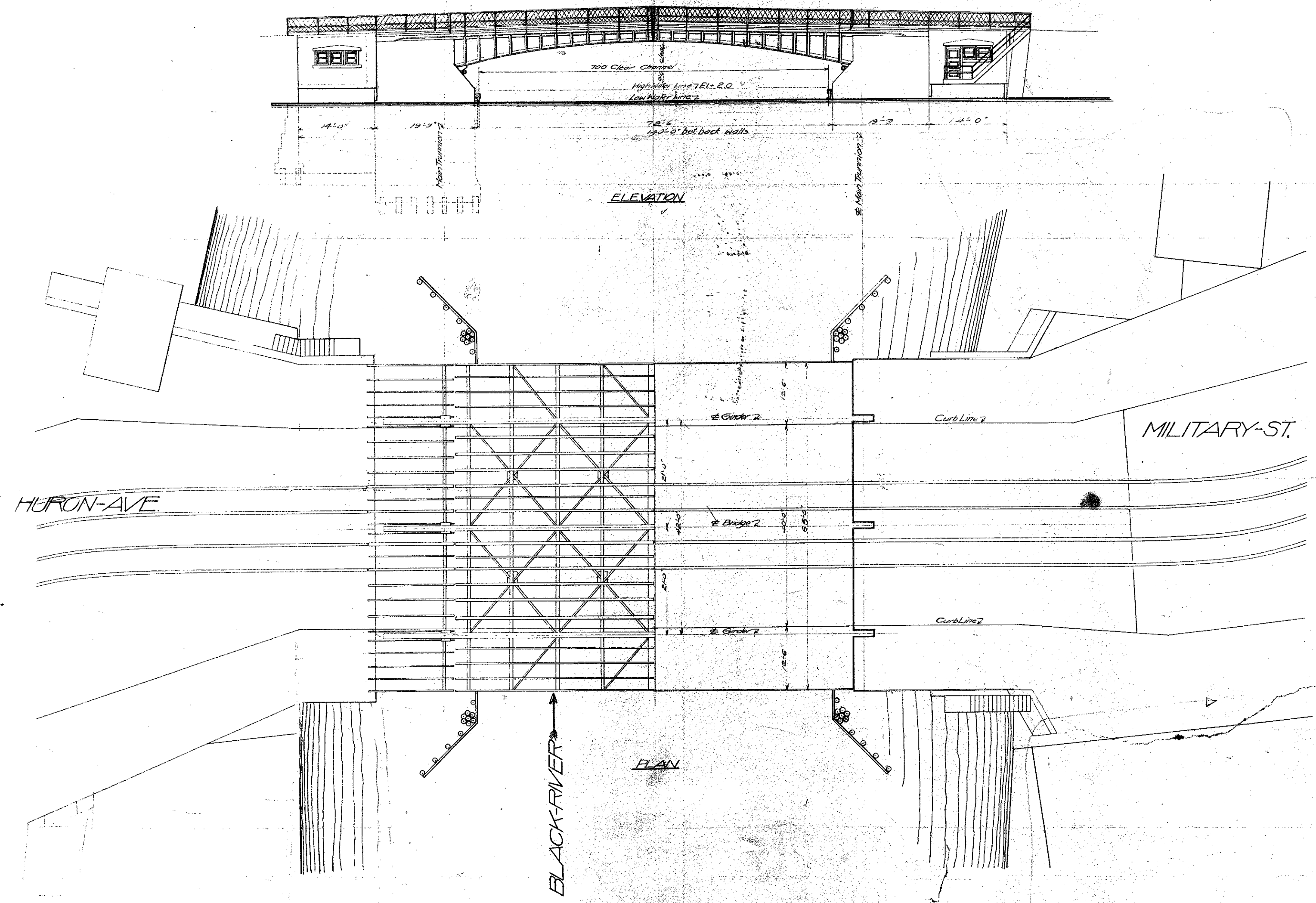
STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MIC

DRAWN BY L.C.L.
TRACED BY C.C.
CHECKED BY P.M. 12/14/12.
REVISED
TROLLEY ARCHES

THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

SHE

Dotted lines indicate bridge in fully open position. Angle of opening 75°

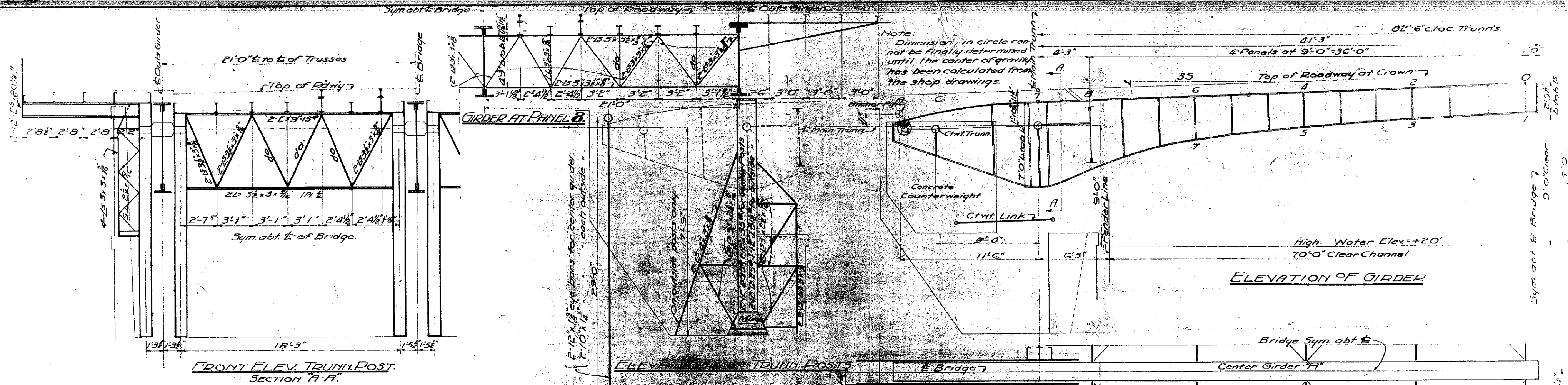


LIST OF DRAWINGS

1	GENERAL DRAWING
2	STRESS SHEET
3	PIILING PLAN
4	ABUTMENT
5	PIERS
6	TRUNNION POSTS
7	MOVING LEAF
8	FLOOR SYSTEM
9	CROSS FR. CTWT. FR. LINK & CTWT.
10	GENERAL MACHINERY
11	TRUNNIONS PINS & BEARINGS

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY C.B.C.
TRACED BY C.B.C.
CHECKED BY J.H. 11/22/12.
REVISED
THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO
SCALE 1/2" = 1'-0"
DATE 11-27-12
GEN. FILE 11
SHEET NO. 1



STRESSES AND SECTIONS IN WEB OF GIRDER "A" (center)

Section	Bridge Closed				All Unit Stress	Web Area	Section
	D.L.	L.L.	Imp.	Total			
O-2	7.90	48.80	42.2	98.90	11	3	29"x 8" Pl.
2-4	19.25	66.60	51.6	137.45	11	12.5	31"x 8" Pl.
4-6	31.10	90.80	67.7	189.60	11	17.2	37"x 8" Pl.
6-8	43.50	134.80	102.0	280.30	11	25.5	50"x 8" Pl.
8-T	52.40	137.60	99.5	289.50	11	26.4	72"x 8" Pl.
T-C	124.0	318	229	671.0	11	61.2	See Detail
C-A	0	318	318	636	11	579	See Detail

STRESSES AND SECTIONS IN FLANGES OF GIRDER "A"

Panel Pt.	Bridge Closed				All Unit Stress	Net Flange Area	Section
	D.L.	L.L.	Imp.	Total			
2	709	4392	3785	8886	19	208	2-13 8"x 6 1/2", 18"x 3" Pl.
4	2441	10386	8400	21227	19	365	do 2-18 3/4" Cov Pl.
6	5242	18558	14460	39260	19	484	do do 18 5/8" Pl.
8	9156	30690	23600	63446	19	558	do do do
T	990	3654	2870	7514	19	569	do do do
C	0	955	955	1910	19	266	do

STRESSES AND SECTIONS IN WEB OF GIRDER "B" (outside)

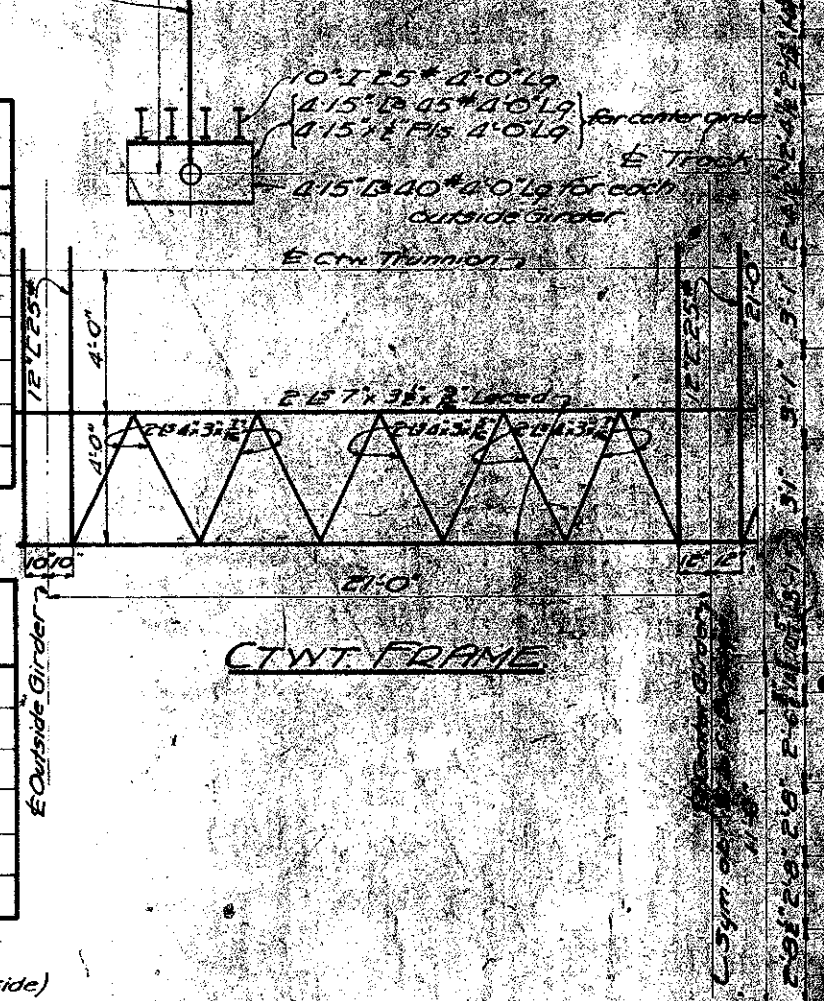
Section	Bridge Closed				All Unit Stress	Web Area	Section
	D.L.	L.L.	Imp.	Total			
O-2	8.30	20.1	14.2	42.6	8.5	5.0	29"x 8" Pl.
2-4	18.80	42.0	29.0	89.8	8.5	10.6	31"x 8" Pl.
4-6	29.90	65.1	44.6	139.6	10.0	14.0	37"x 8" Pl.
6-8	41.40	91.7	63.2	196.3	10.0	19.6	50"x 8" Pl.
8-T	49.70	103.7	70.2	223.6	8.5	26.4	72"x 8" Pl.
T-C	118.0	210	134	462	8.5	54.3	See Detail
C-A	0	210	210	420	8.5	494	See Detail

STRESSES AND SECTIONS IN FLANGES OF GIRDER "B" (outside)

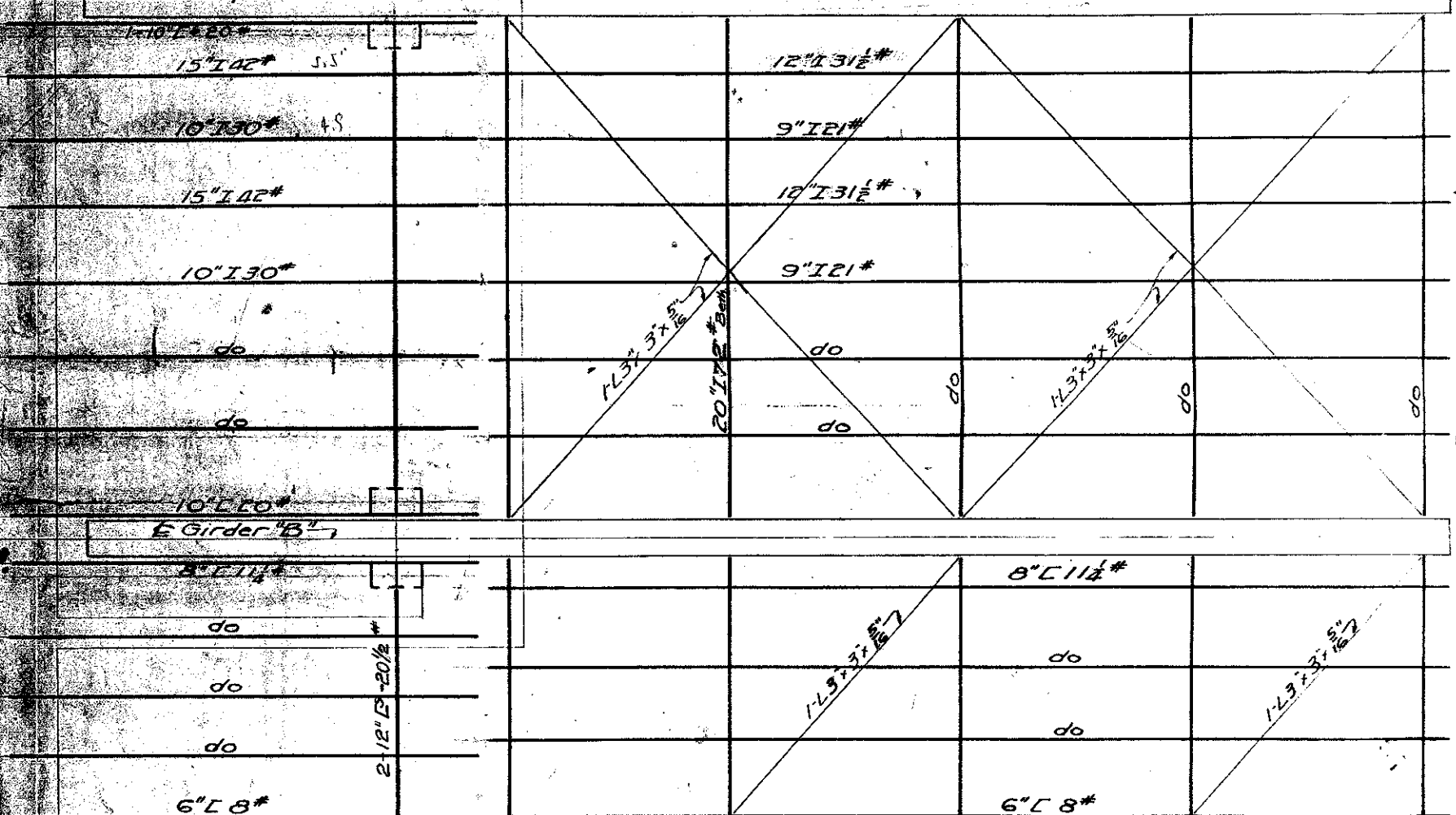
Panel Pt.	Bridge Closed				All Unit Stress	Net Flange Area	Section
	D.L.	L.L.	Imp.	Total			
2	751	1809	1278	3838	19	8.7	2-13 8"x 6 1/2", 1-Pl. 14"x 5"
4	2477	5389	3874	11740	19	220	do do
6	5134	11448	790	24482	19	317	do 3-Pls. 14"x 5"
8	8856	19701	1360	42157	19	376	do do
T	1000	2410	1700	5110	19	392	do do
C	0	630	630	1260	19	188	do 1-Pl. 14"x 5"

Girder rivets to be 7/8" dia.

ELEVATION OF TRUNNION POSITS



TRUNNION FRAME



FLOOR OVER PIT.

STRESSES AND SECTIONS IN FLOOR SYSTEM.

Item	Stress in 1000 lbs.				Moments in 1000 ft-lb.				Section.
	D.L.	L.L.	Imp.	Total	D.L.	L.L.	Imp.	Total	
Moving Load									
Roadway Slab	0.1	6.0	5.6	12.0	0.9	13.5	12.8	27.2	9" I 21*
Track	0.6	134	128	268	4.4	22.5	21.2	45.1	12" I 31 1/2*
S.W.	0.2	14	12	28	0.4	31	27	62	8" I 11 1/2* (Intern), 6" I 8* (Outside)
Floorbeams	3.7	211	186	440	30.6	103.7	91.1	220.4	20" I 70* (Both)
Stationary Load									
Roadway Slab	0.7	7.0	6.3	14.0	4.7	21.0	18.6	42.3	10" I 30*
Track	1.0	157	148	315	3.4	43.2	40.0	86.6	15" I 42*
S.W.	0.3	18	15	36	4.0	61	52	123	8" I 11 1/2* (Intern), 6" I 8* (Outside)
Trunnion beam	6.0	285	215	580	16.7	100.5	86.2	203.4	2-9" B 15" top, 2-8 3/4" B 15" bot + 2-13 3/4" x 3/8" web members.

Stresses Figured By: A.S.W.
Checked By: W.M.W.

General Notes:

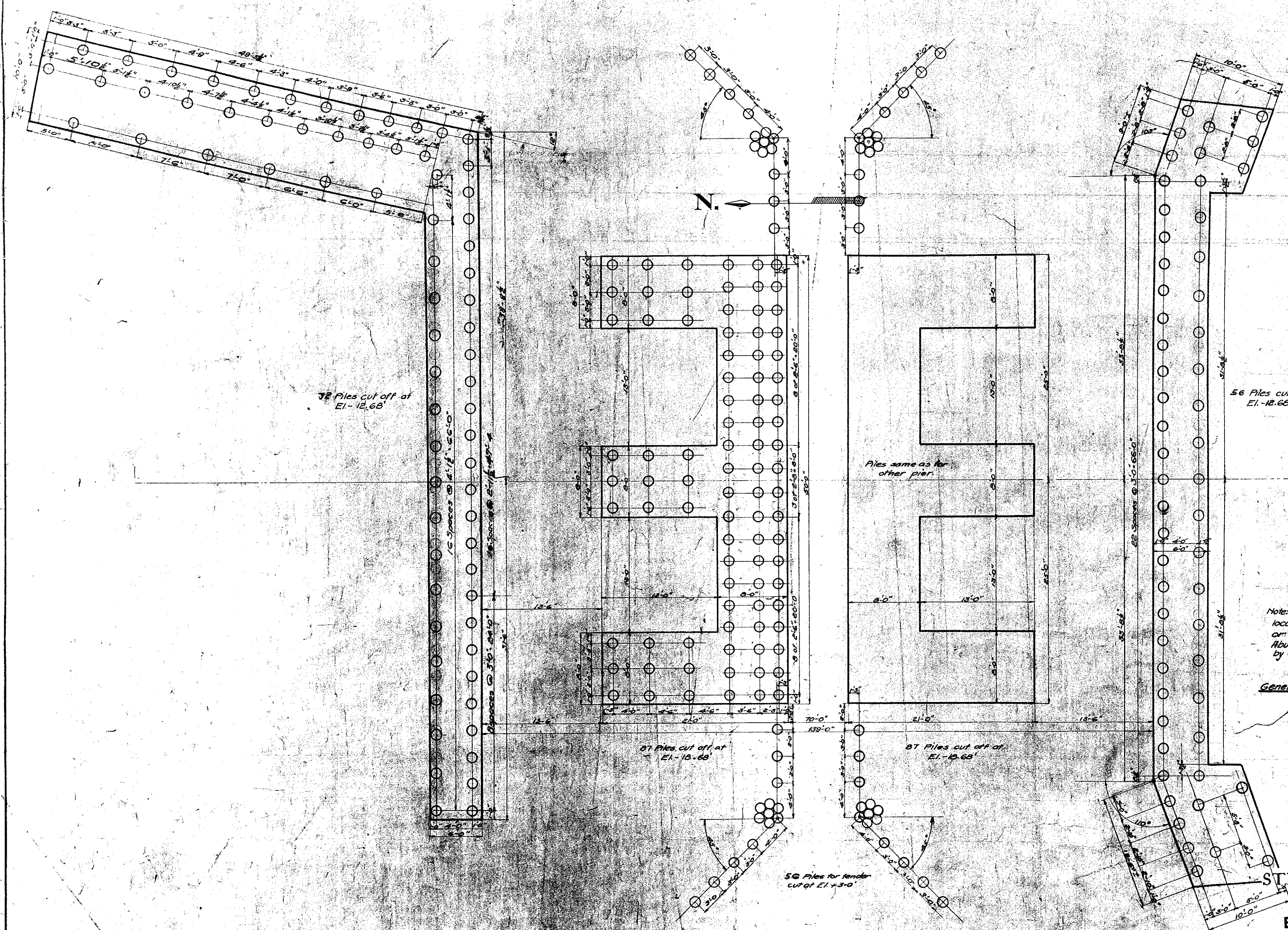
Dead Load: Actual weight
Live Load: One 40 ton motor car on each track, one 15 ton Road Roller or 100 lbs per sq ft on Roadway 100 lbs per sq ft on Side Walk.
Specifications: Osborn Engineering Co's "General Specifications for Electric Railway Bridge Superstructures" as supplemented by The Strauss Bascule Bridge Co's Specifications for this bridge.
Angle of Opening 75°

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY FTG
TRACED BY FTG
CHECKED BY W.M.W.
REVISED: 10-25-18, 11/18/18
STRESS SHEET.

THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO.

SCALE: 1/4" = 1'-0"
DATE: 10-12-18
GEN. FILE 11



Note: Piling and Concrete foundations to be located so as not to disturb any water or gas pipes. End of wing walls of south Abutment to conform to lines established by City Engineer.

General Note: Material and workmanship as per Specifications. Specifications: Osborn Engineering Co's specification for this bridge.

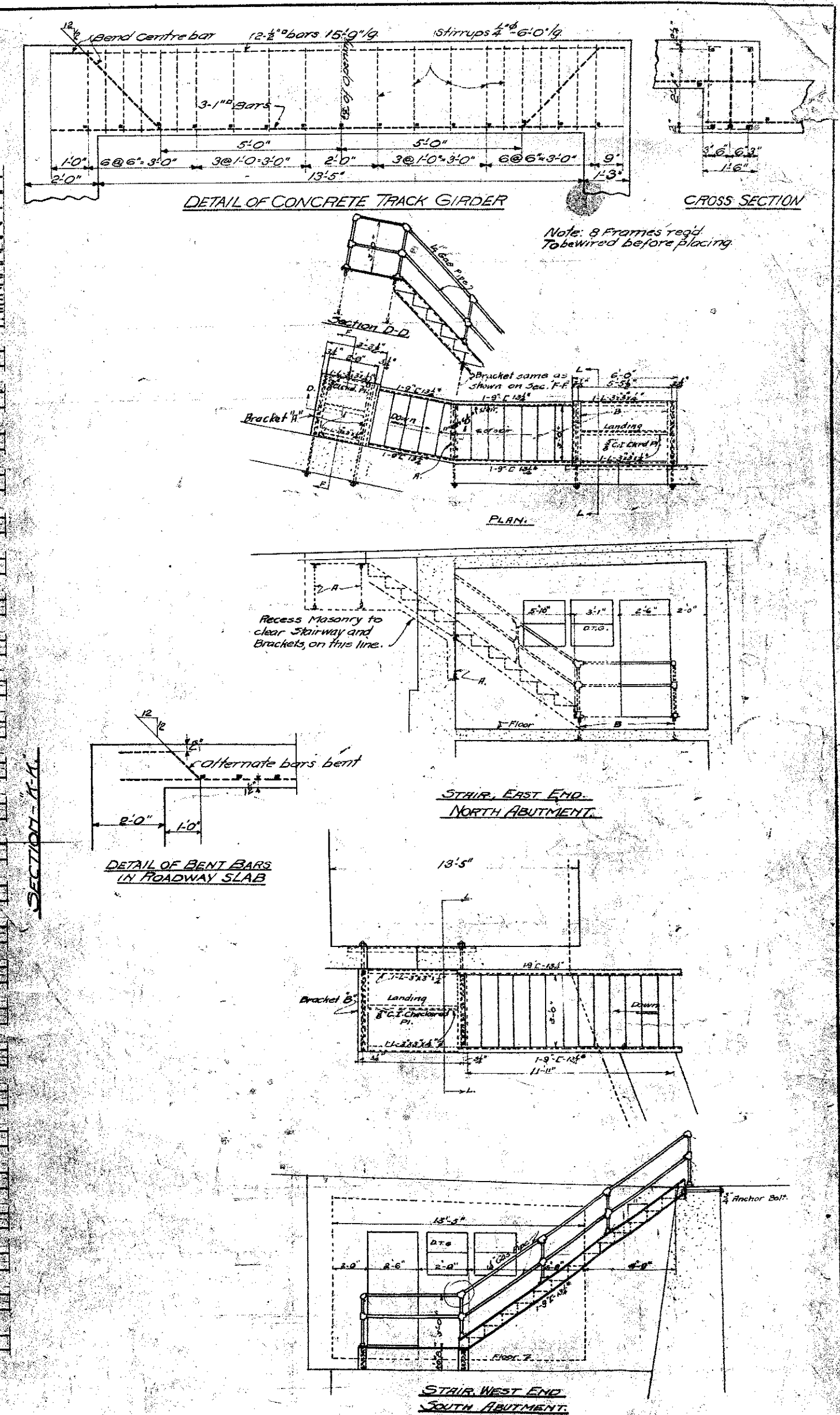
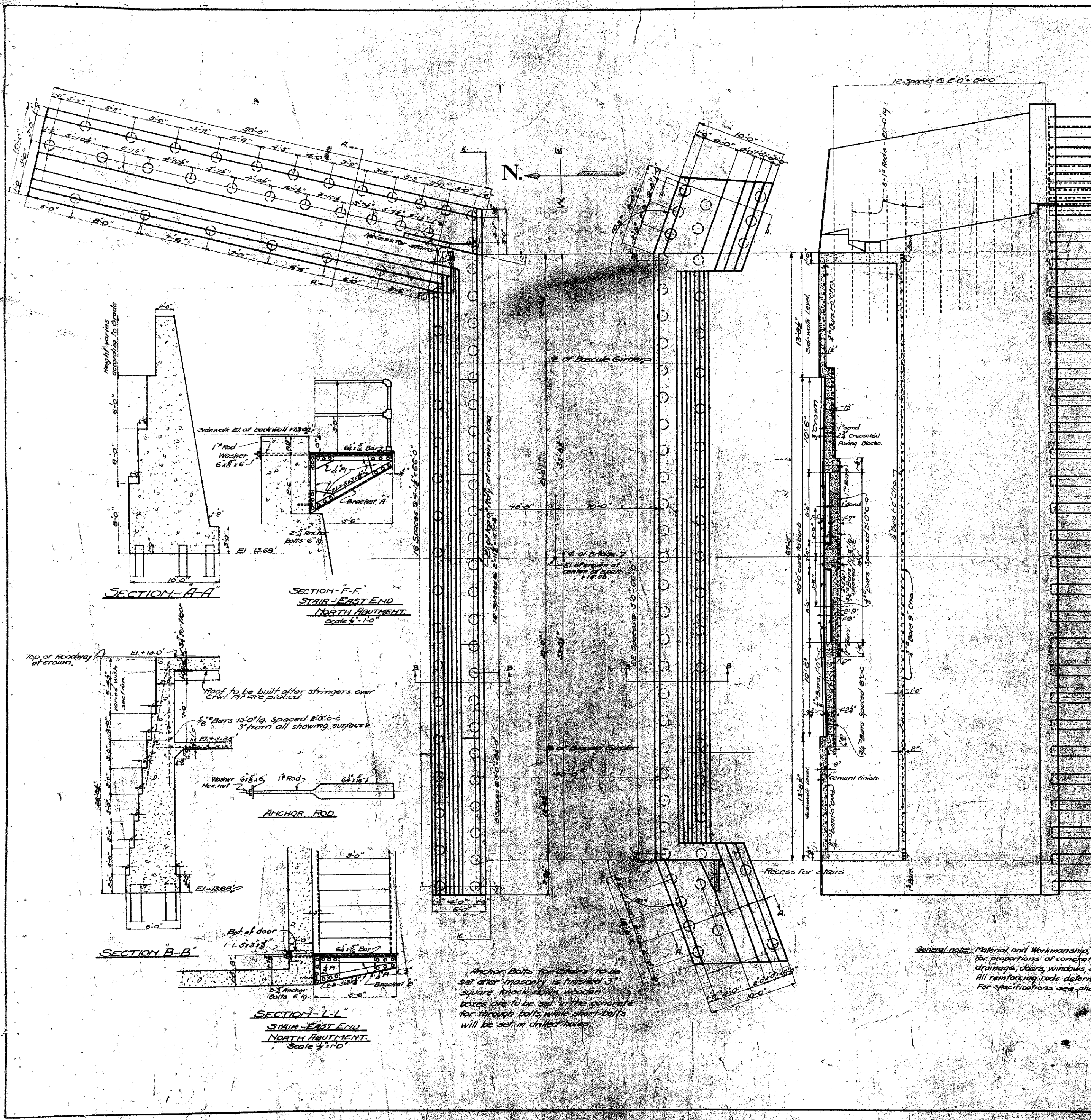
STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY H. R. M.
 TRACED BY H. R. M.
 CHECKED BY R. O. W. 10-11-12
 REVISED 10-21-12, 10-25-12, 11-6-12, 11/18/12

THE STRAUSS
 BASCULE BRIDGE CO.,
 CHICAGO

SCALE 1/2"=1'-0"
 DATE 10-9-12
 GEN. FILE 11

PILING PLAN.



STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY H.A.M.
TRACED BY H.A.M.
CHECKED BY H.A.M. 11/21/12
REVISED 12/6/12

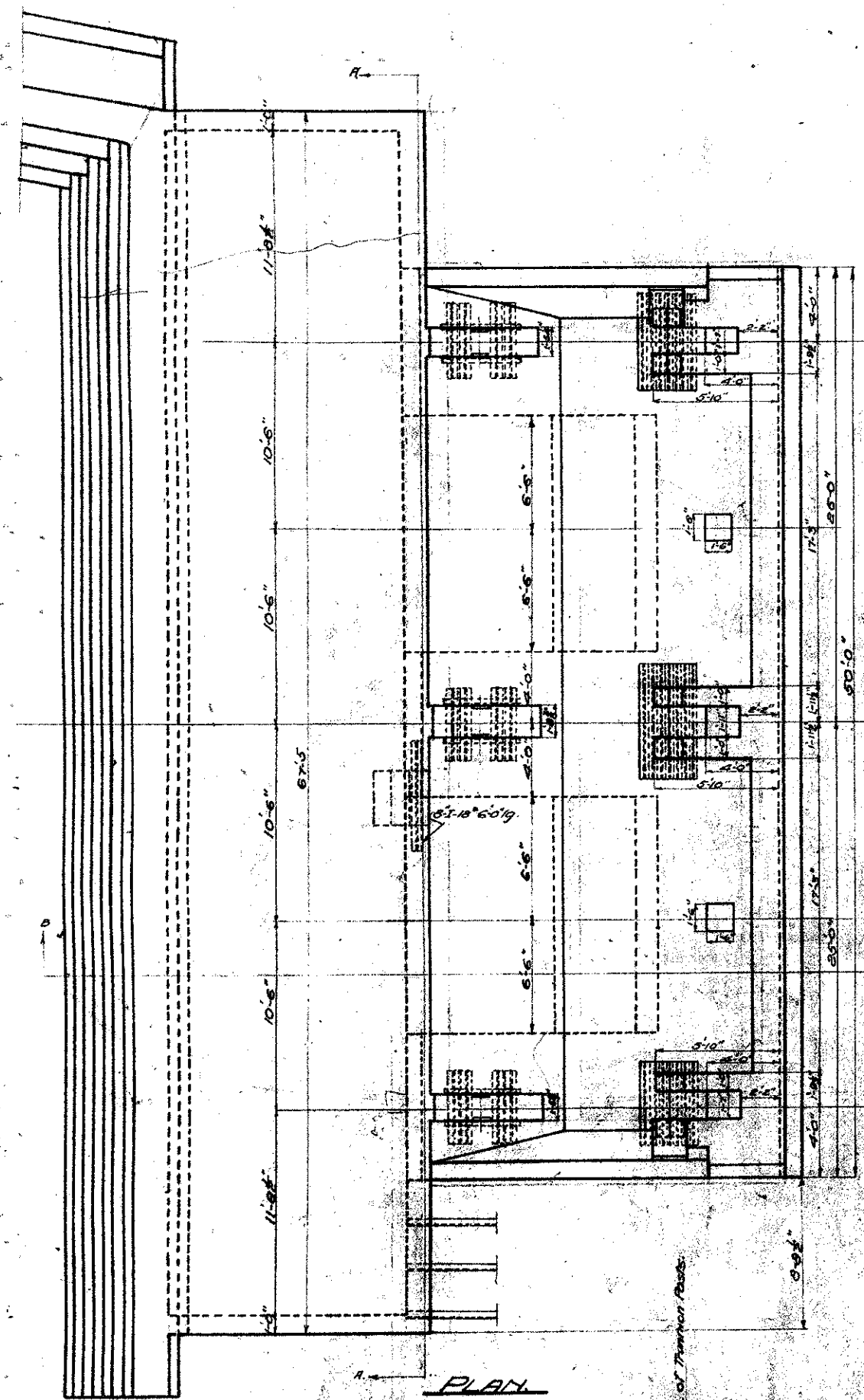
THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

SCALE 1/2" = 1'-0" or as noted
DATE 10-12-12
GEN. FILE 11

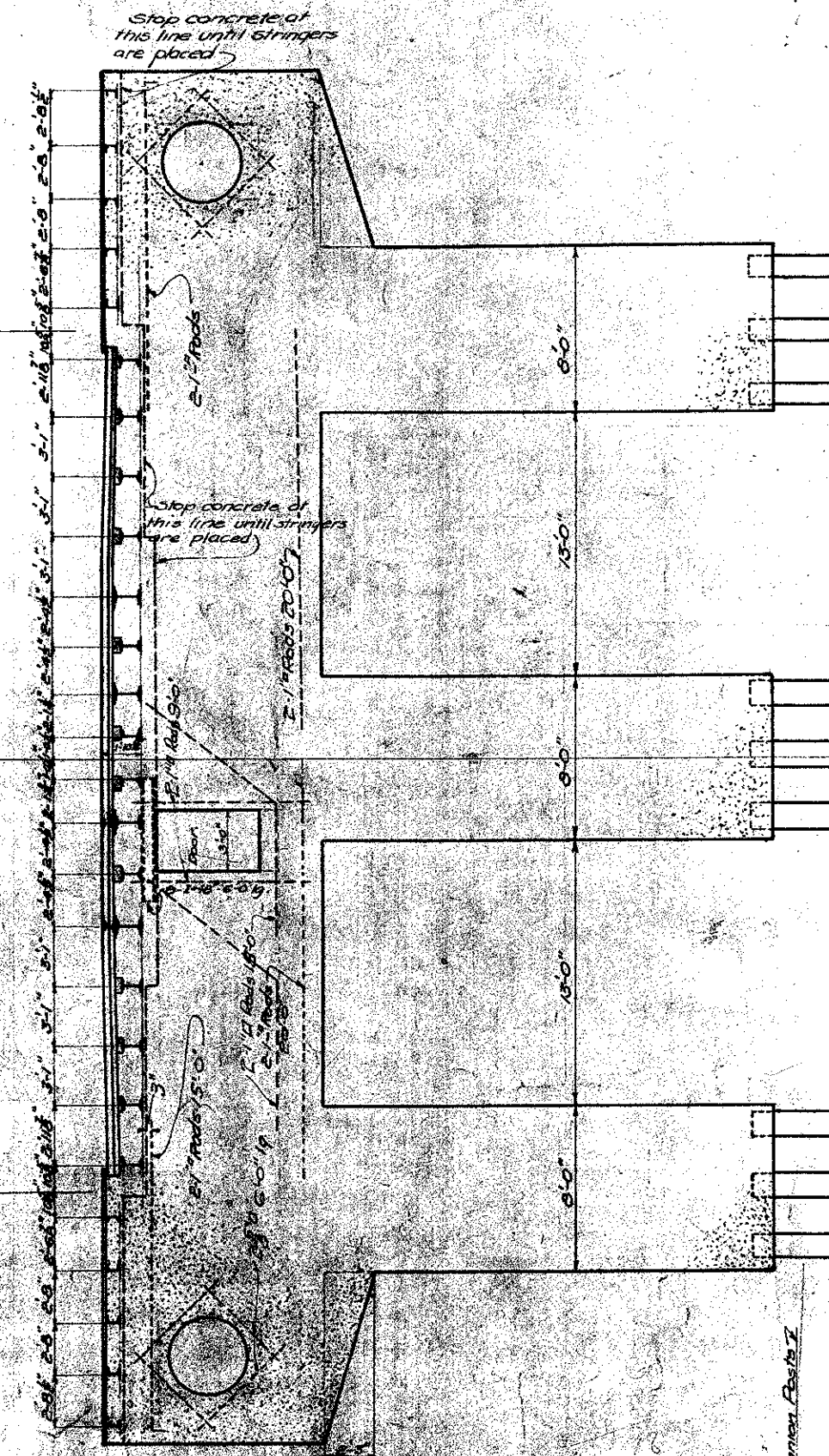
ABUTMENT.

SHEET NO. 4

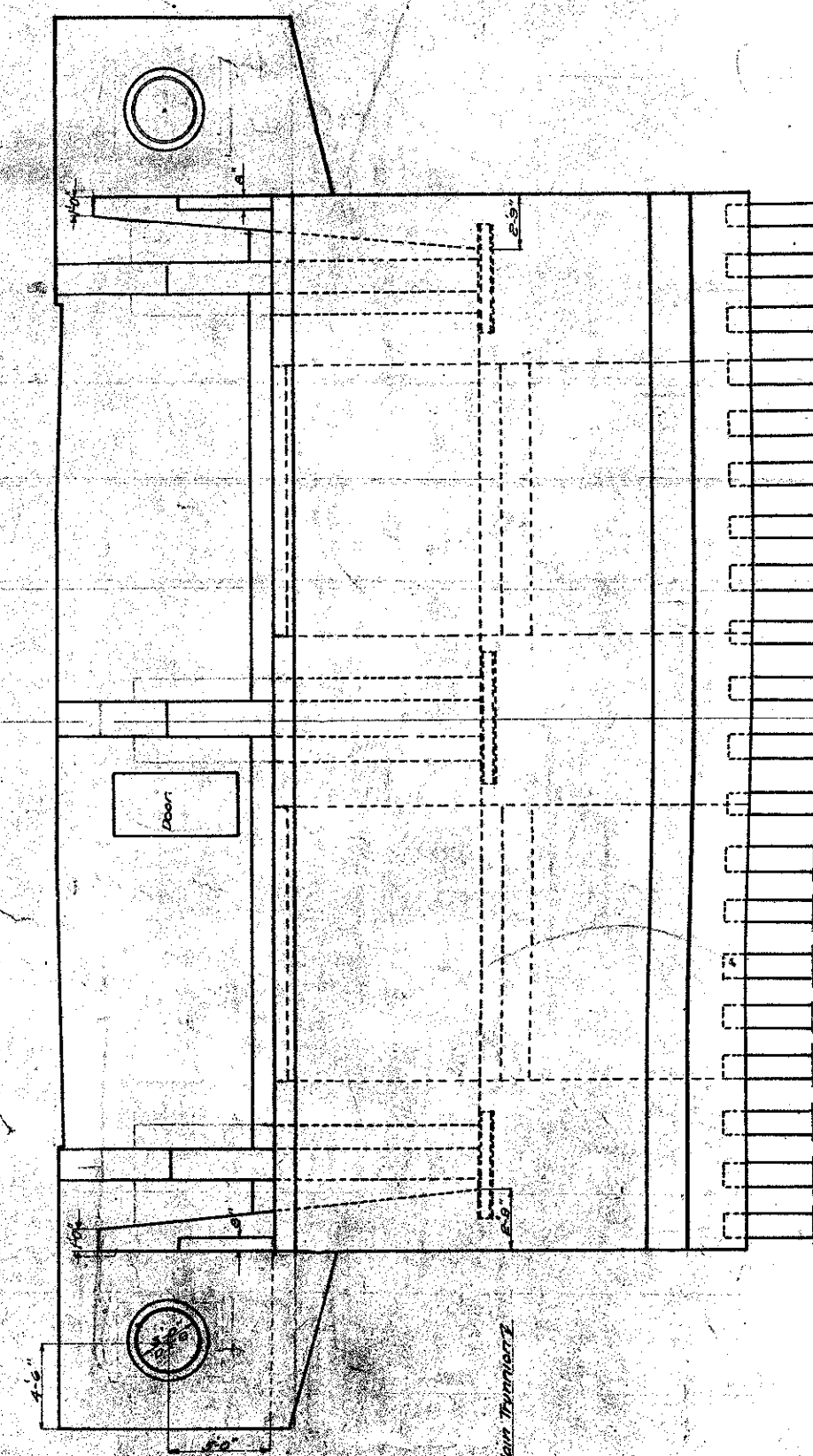
Box of 77032



PLAN

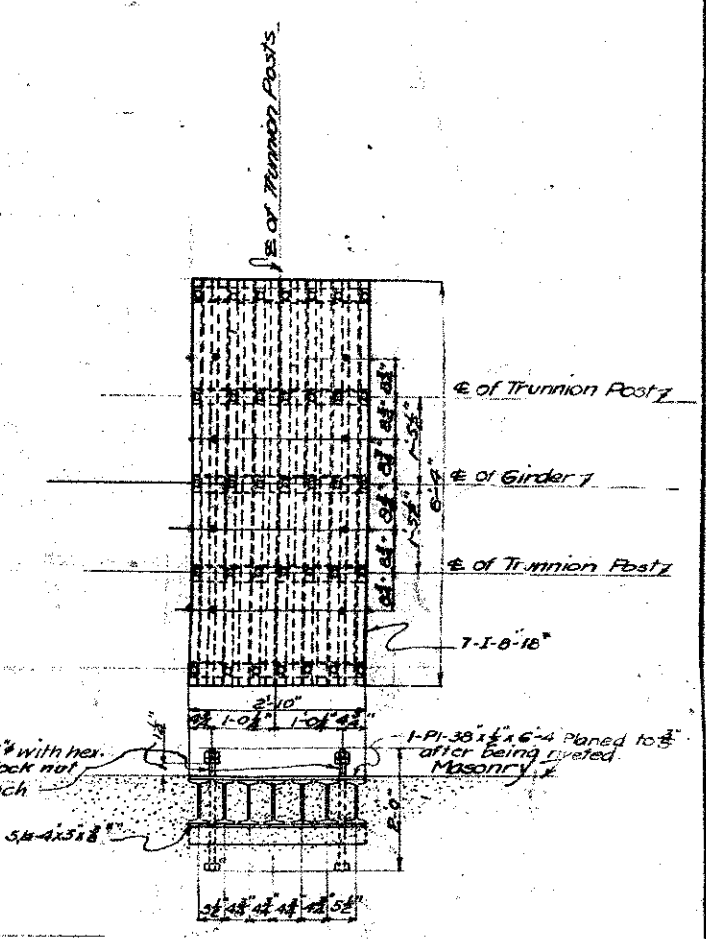


Cross Section A-A

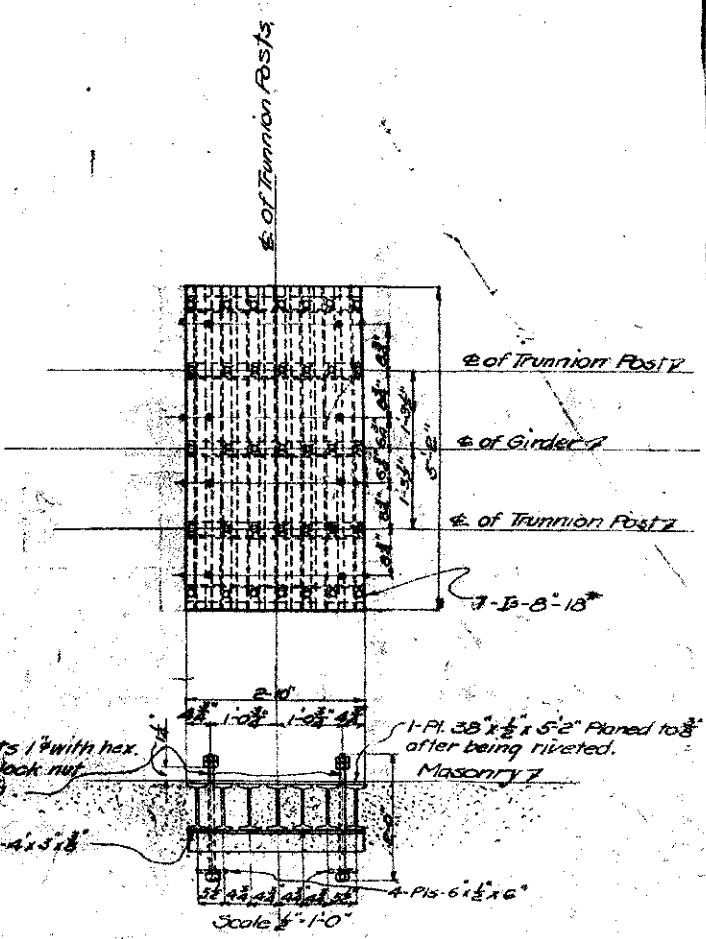


SIDE ELEVATION OF PIER

FRONT ELEVATION



GRILLAGE FOR CENTER TRUNNION POST

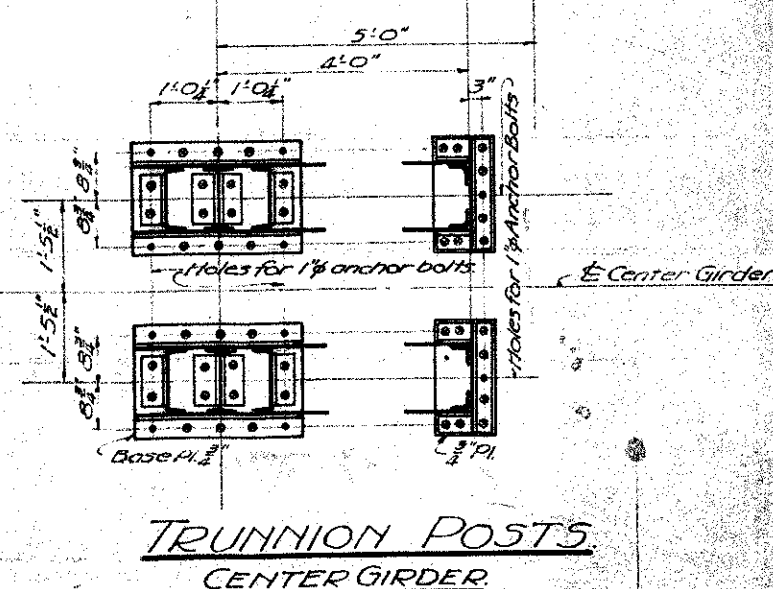
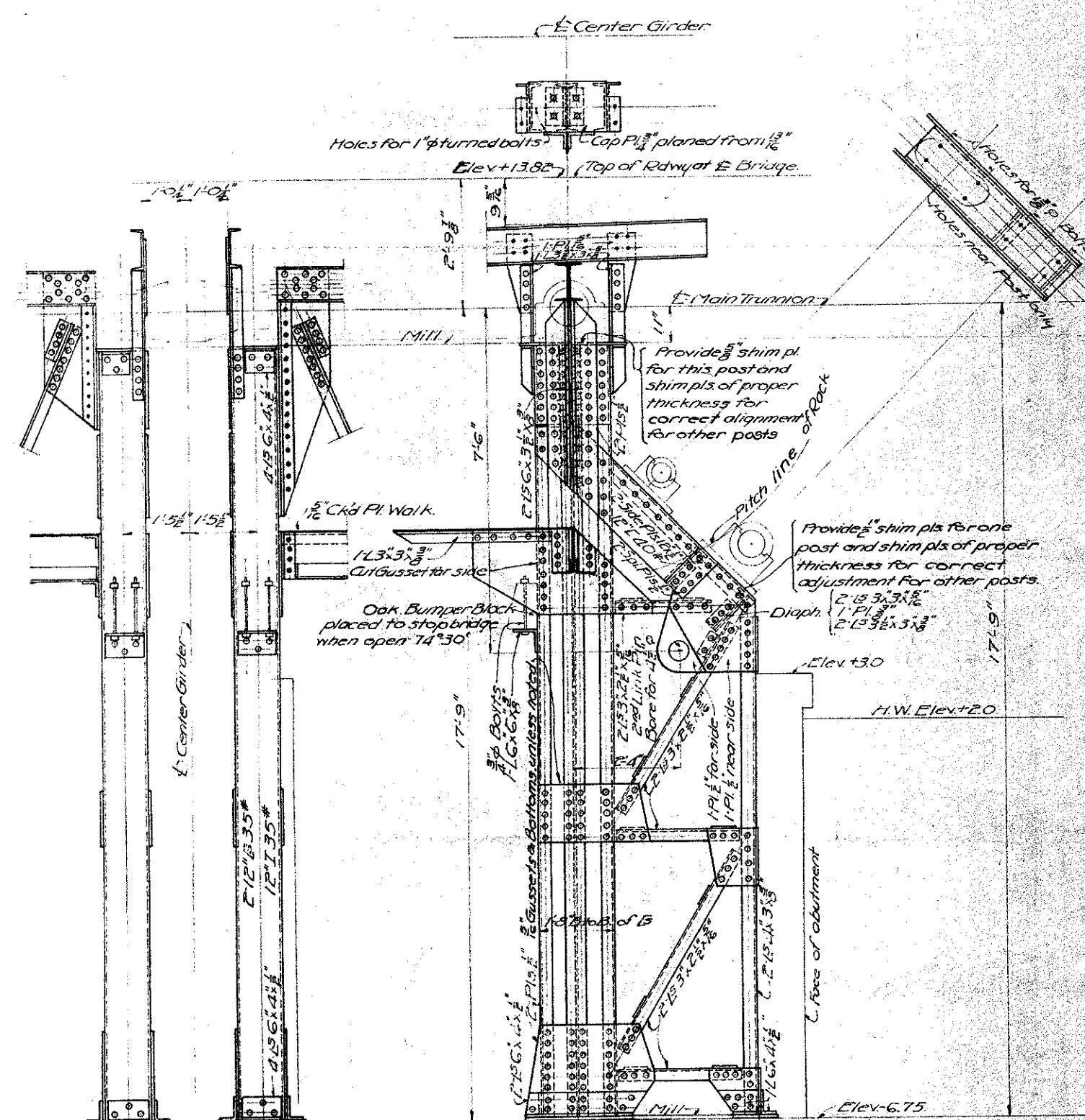


GRILLAGE FOR OUTSIDE TRUNNION POSTS

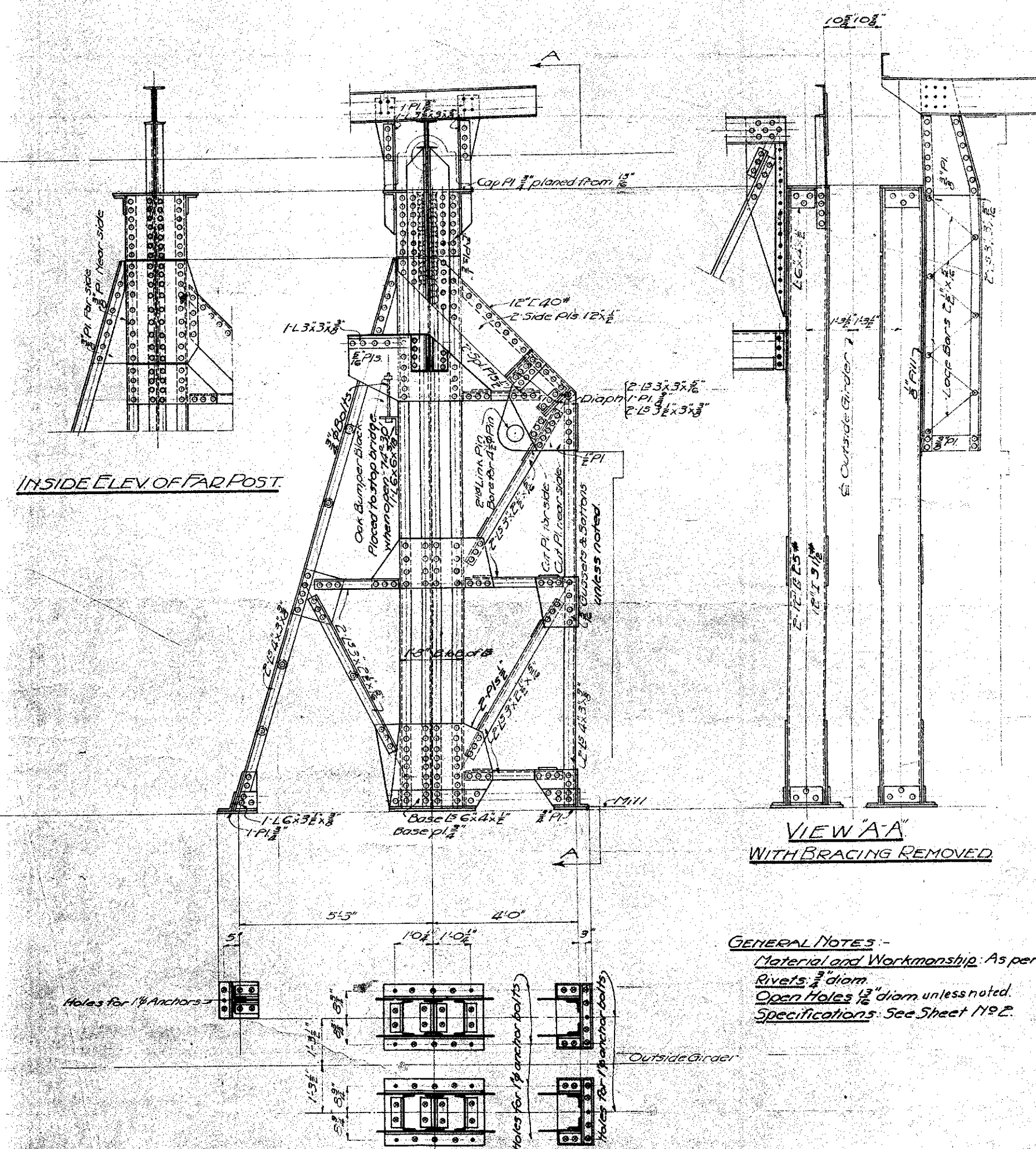
General Notes: Materials and Workmanship, as per specifications, for proportions of concrete, waterproofing of P.I., drainage, doors, windows, etc. see specifications. All reinforcing rods deformed. For Specifications see sheet 12.

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY H.R.M.
CHECKED BY H.R.M.
REVISOR 12-11-12
PIERS.
THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO
SCALE 1/4" = 1'-0"
DATE 10-5-12
GEN. FILE 11
SHEET NO. 5



TRUNNION POSTS
CENTER GIRDER



INSIDE ELEV OF FAR POST

VIEW "AA"
WITH BRACING REMOVED

GENERAL NOTES:-
Material and Workmanship: As per specifications.
Rivets: 3/4" diam.
Open Holes: 1/2" diam unless noted.
Specifications: See Sheet 1192.

TRUNNION POSTS
OUTSIDE GIRDER

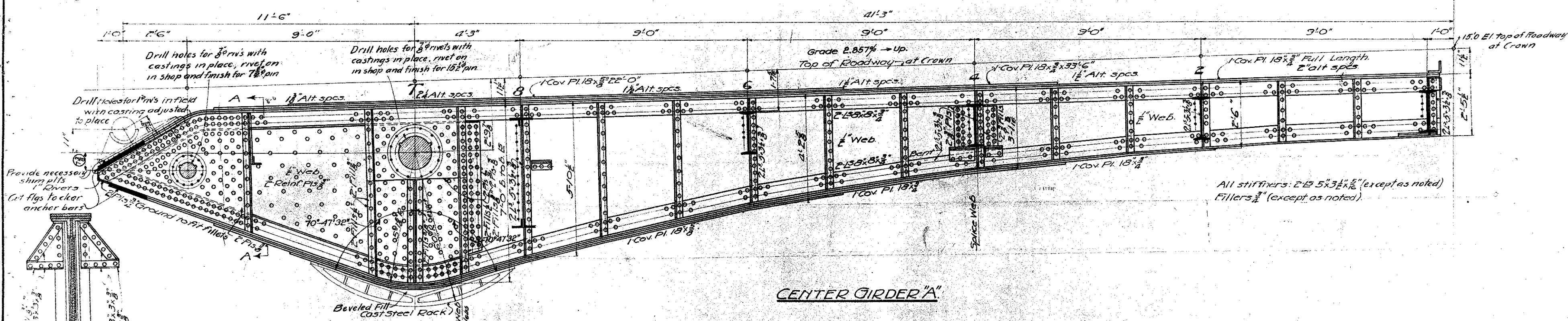
STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY GWE
TRACED BY FTG
CHECKED BY 2041 11/15/12
REVISED
TRUNNION POSTS

THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

SCALE 3/4" = 1'-0"
DATE 1/25/12
GEN. FILE 11

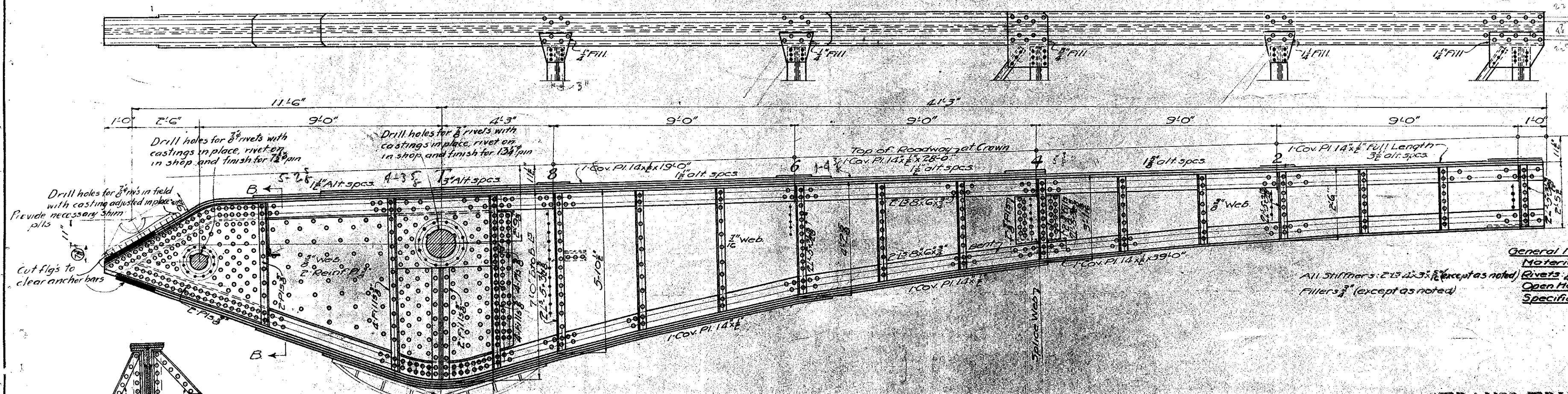
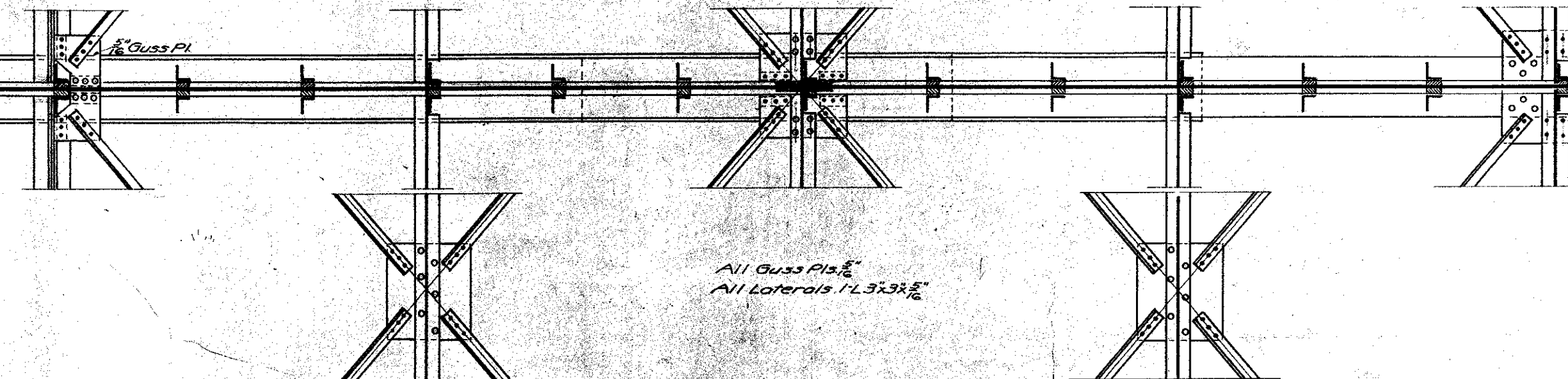
SHEET NO. 6



CENTER GIRDER 'A'

SECT. 'A-A'
Showing Bumper Brackets

Note
Dimension in circle cannot be finally determined until center of gravity has been calculated from the shop drawings.



OUTSIDE GIRDER 'B'

SECT. 'B-B'
showing bumper brackets

General Notes:
Material and Workmanship: as per specifications.
Rivets: 3/4" diam. (except as noted).
Open Holes: 1/2" diam. "
Specifications: See Sheet 1792.

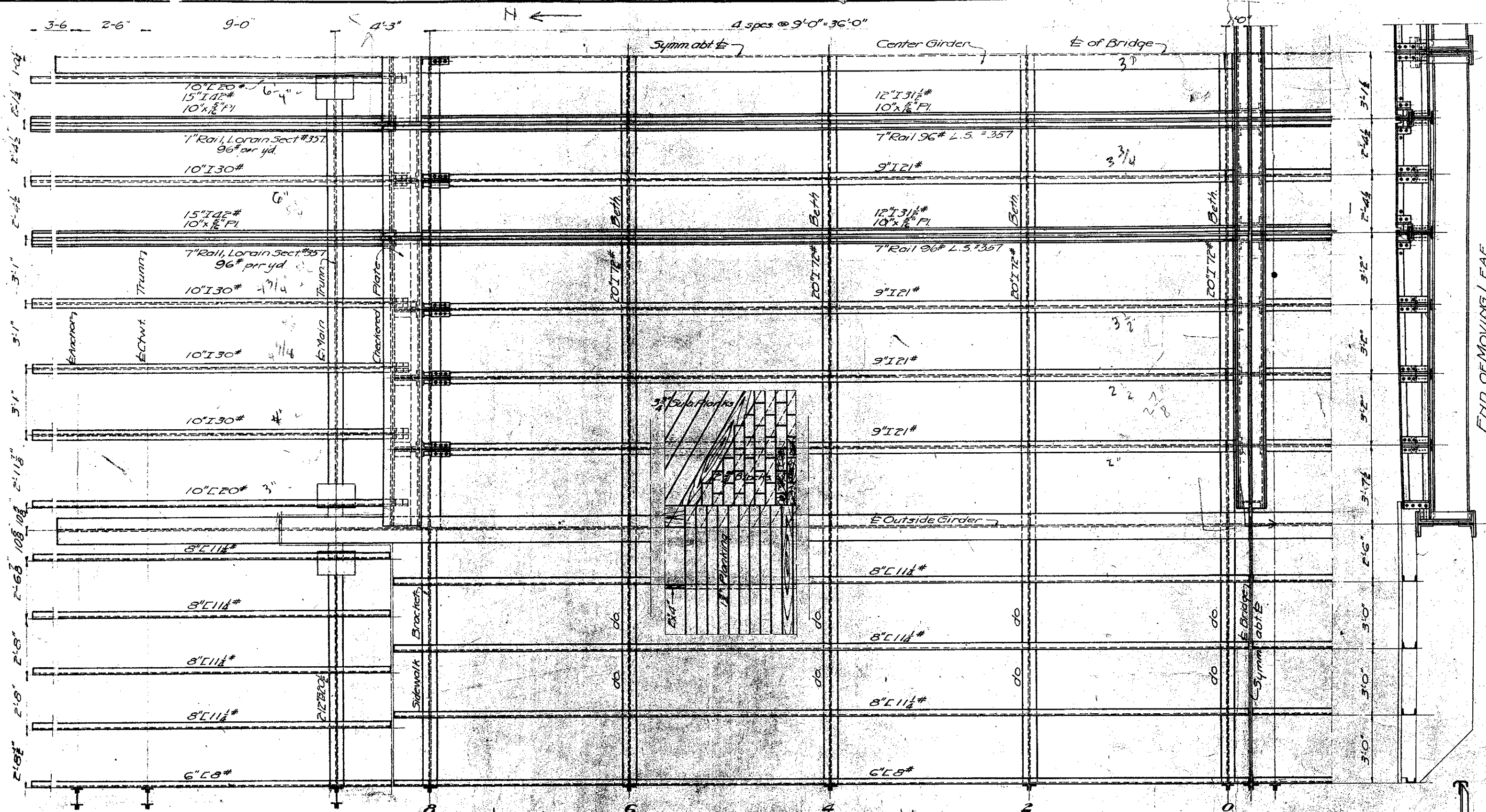
STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY H.A.
TRACED BY H.A. & T.G.
CHECKED BY R.H. 11/19/12
REVISED
MOVING LEAF

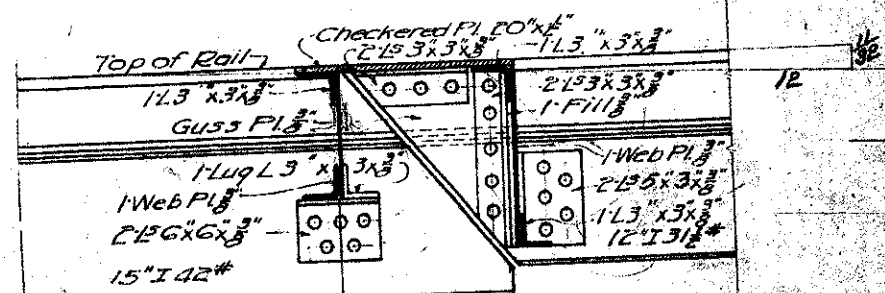
THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

SCALE 1/4" = 1'-0"
DATE 11-19-12
GEN. FILE 11

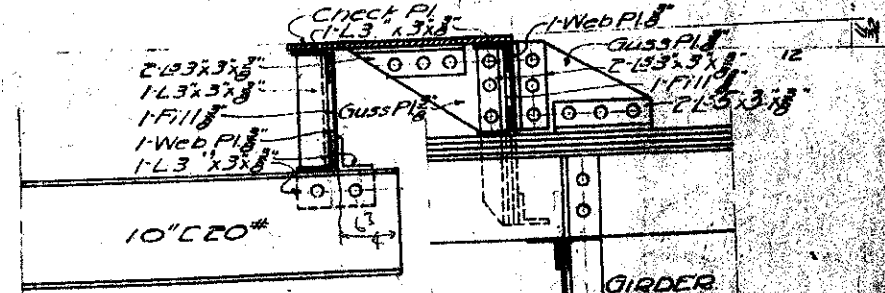
SHEET NO. 7



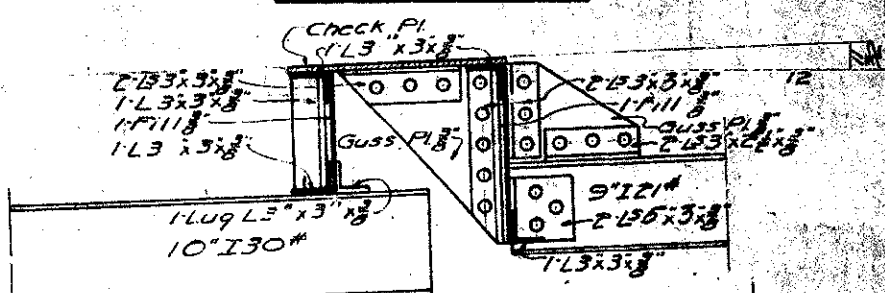
PLAN OF MOVING LEAF



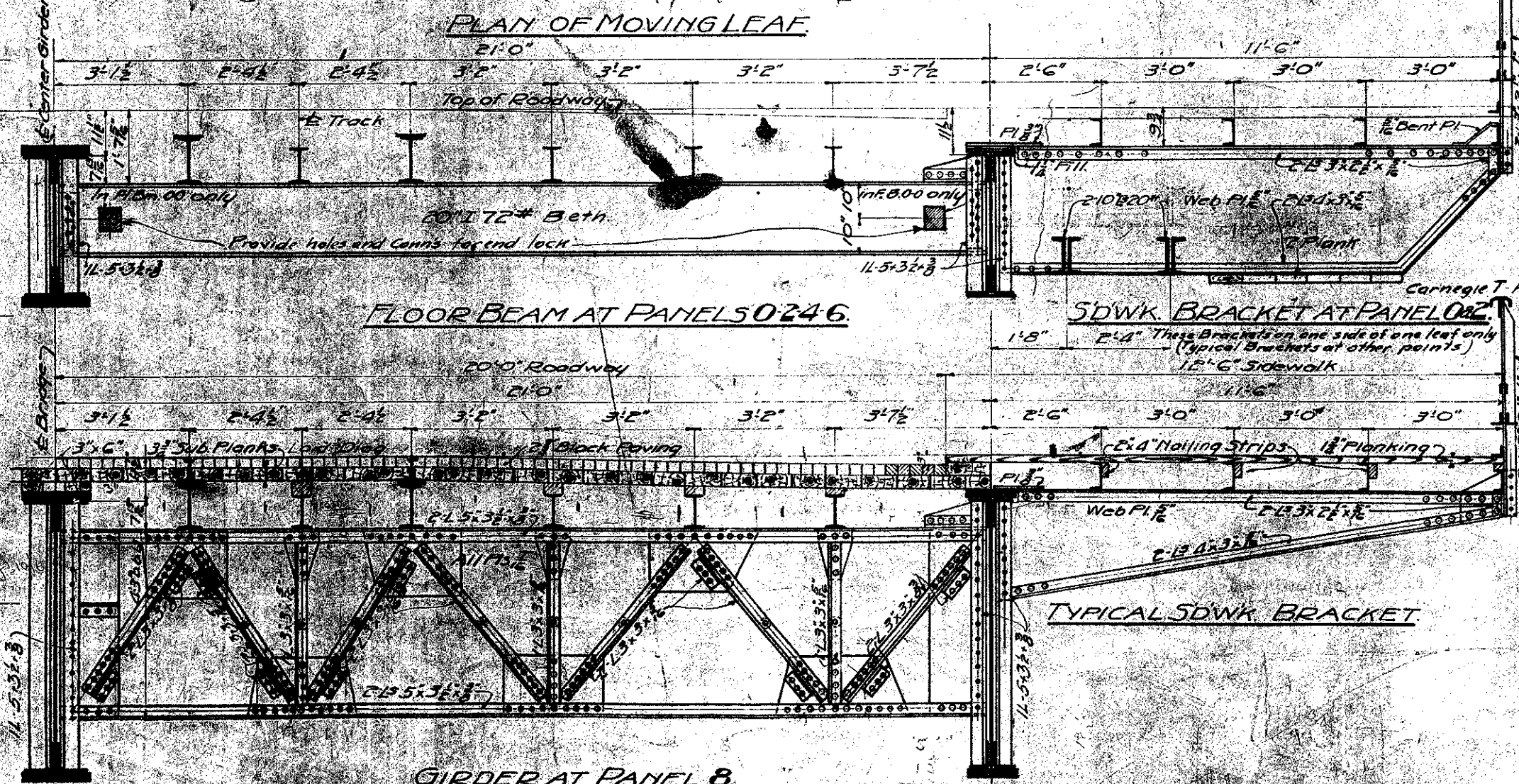
BREAK IN FLOOR (Near Trunnion)
SECT. NEAR RAIL



BREAK IN FLOOR (Near Trunnion)
SECT. NEAR GIRDERS



BREAK IN FLOOR (Near Trunnion)
TYPICAL SECT.

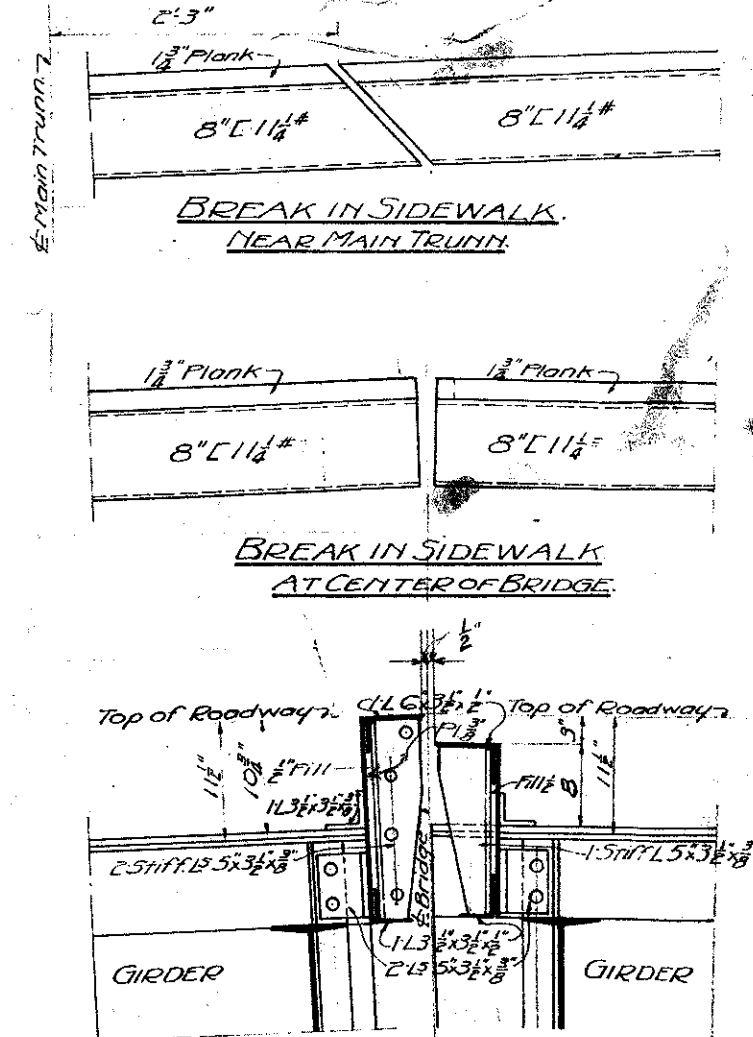


FLOOR BEAM AT PANELS 0 & 246

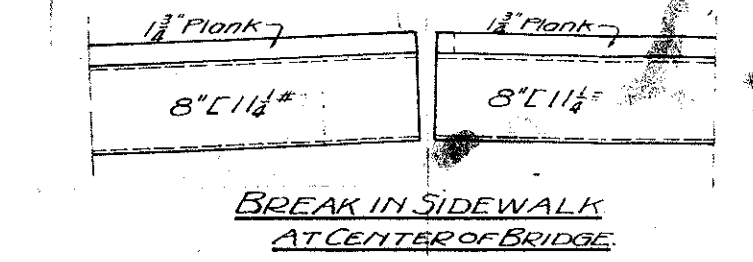
SDWK BRACKET AT PANEL 0 & 246

GIRDER AT PANEL 8

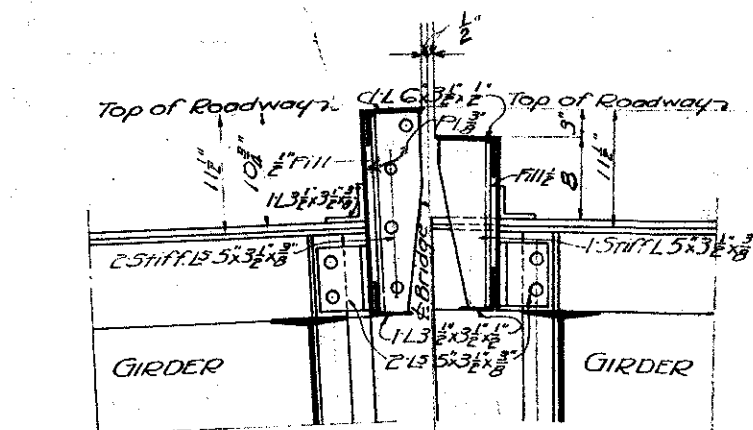
TYPICAL SDWK BRACKET



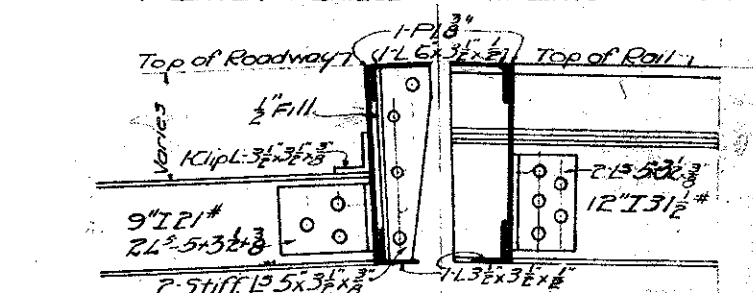
BREAK IN SIDEWALK
NEAR MAIN TRUNNION



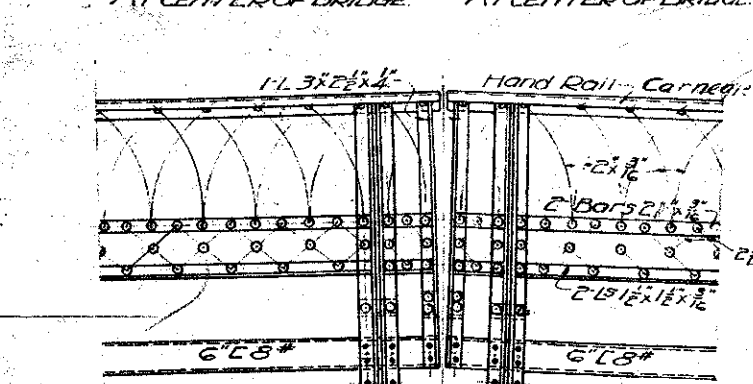
BREAK IN SIDEWALK
AT CENTER OF BRIDGE



SECT. AT CENTER
GIRDER
AT CENTER OF BRIDGE



SECT. AT OUTSIDE
GIRDER
AT CENTER OF BRIDGE



HAND RAILING
AT CENTER OF BRIDGE

- GENERAL NOTES:-
- Material and Workmanship: As per specifications.
 - Rivets: 3/4" diam.
 - Open Holes: 1/2" diam.
 - Specifications: See Sheet 1192.
 - For Flooring on Sidewalk and Roadway see specifications.

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY H.A.
TRACED BY F.T.G.
CHECKED BY F.T.G./11/15/12
REVISED 11/23/12
FLOOR SYSTEM.

THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

SCALE 3/4" = 1'-0"
DATE 11-2-12
GEN. FILE 11

SHEET NO. 11



sample C. of G. calculations will be furnished
by The Strauss Basculer Bridge Co.



CTWT. FRAME



DRAWN BY *H.A. AAN* THE STRAUSS SCALE $\frac{1}{4"} = 10'$
 TRACED BY *A.A.N.* BASCULE BRIDGE CO. DATE *11-5-12*
 CHECKED BY *PAH 11/19/12* CHICAGO GEN. FILE **11**
 REVISED *11/21/12*
CROSS FR. CTWT. FR. LINK & CTWT. SHEET NO. (9)

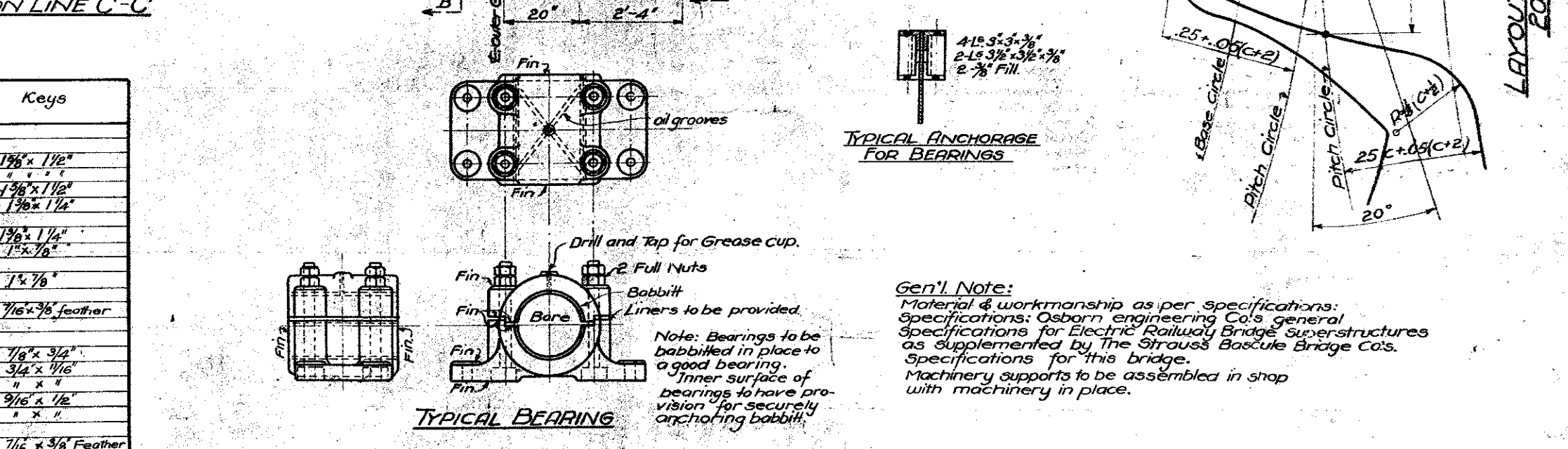
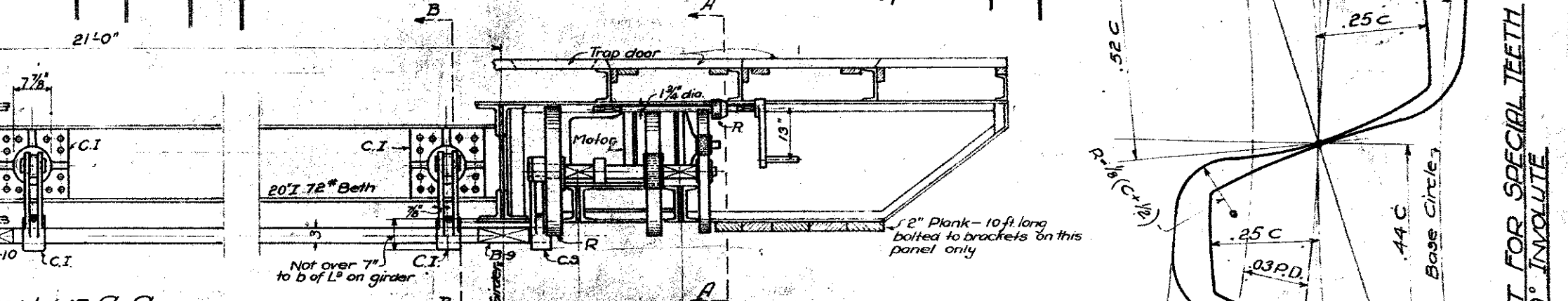
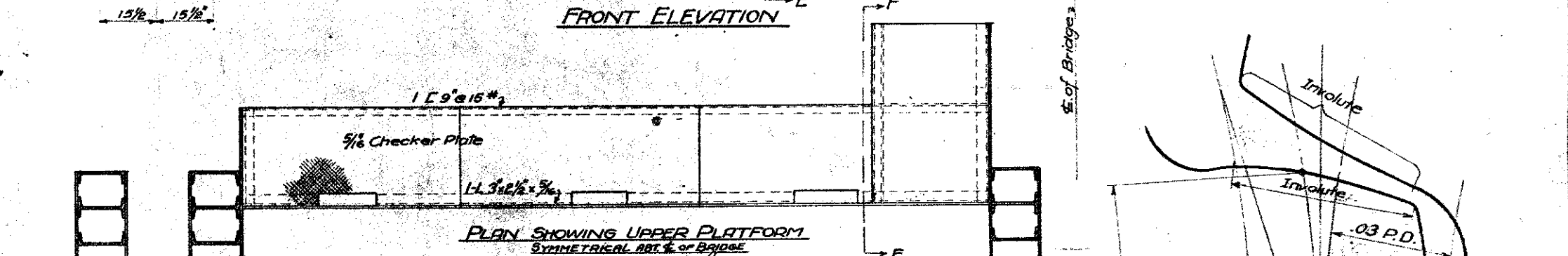
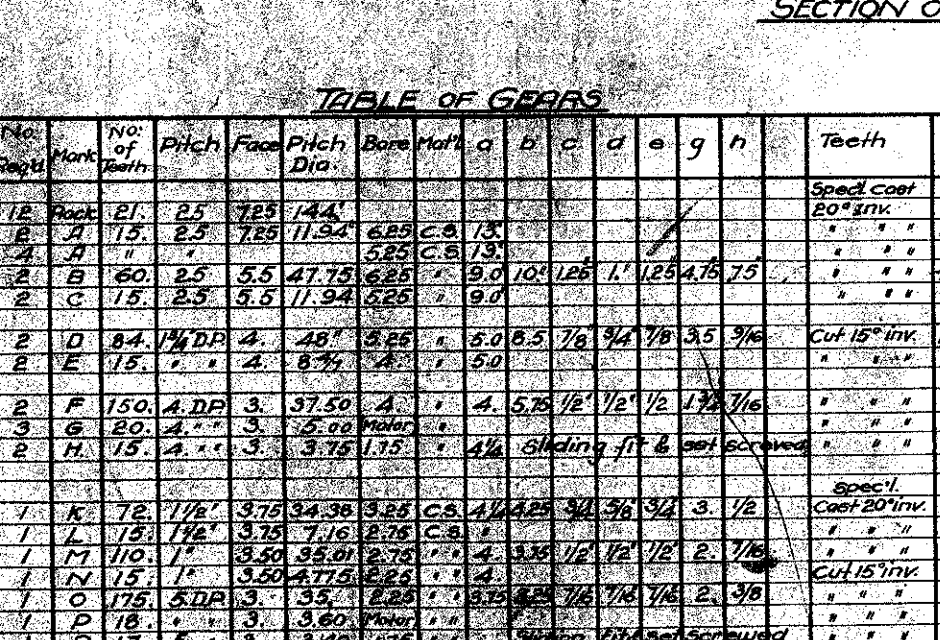
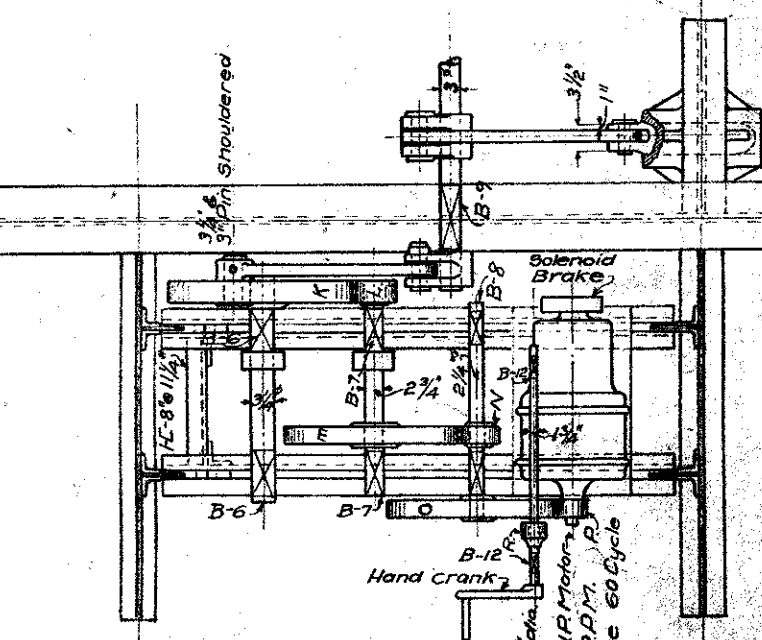
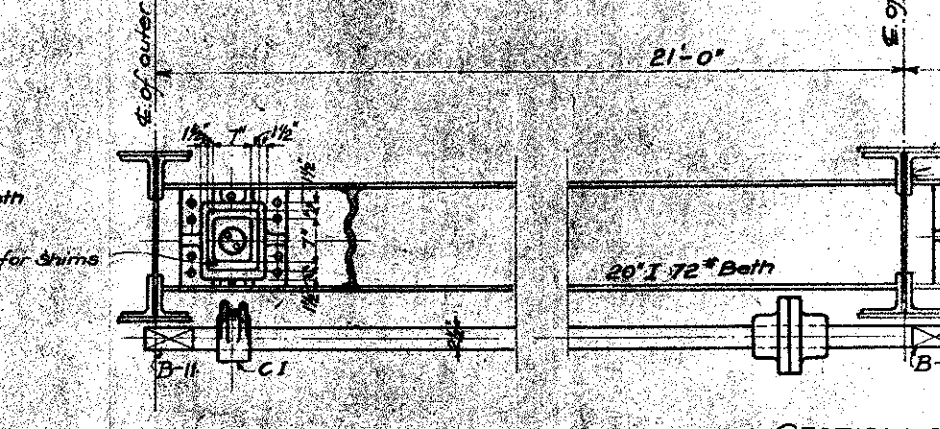
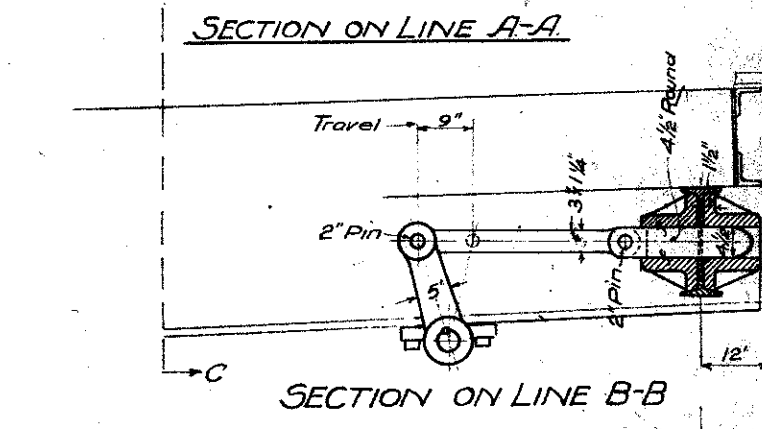
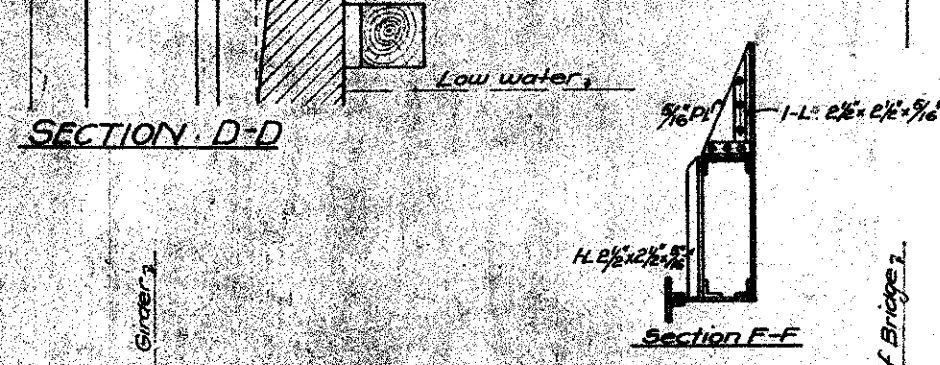
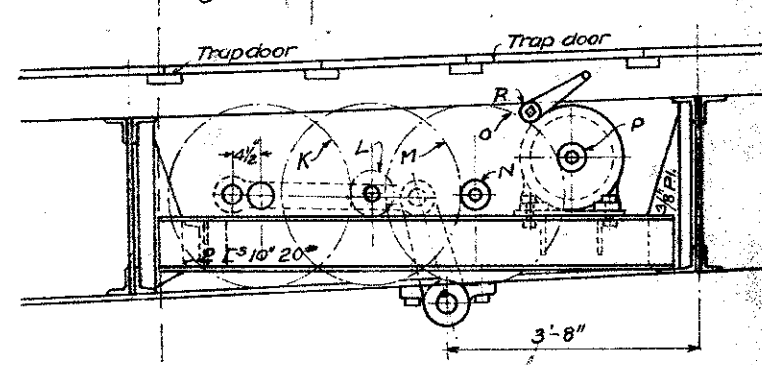
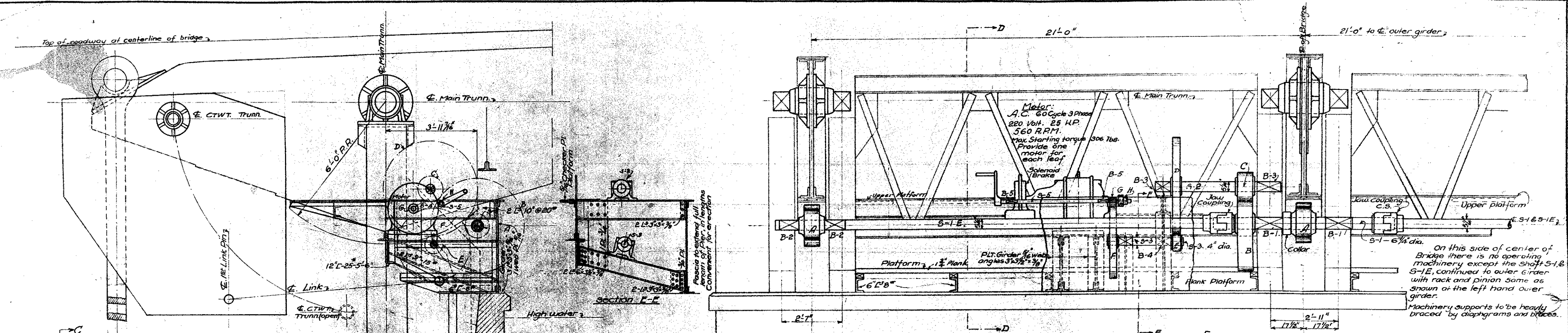


TABLE OF GEARS

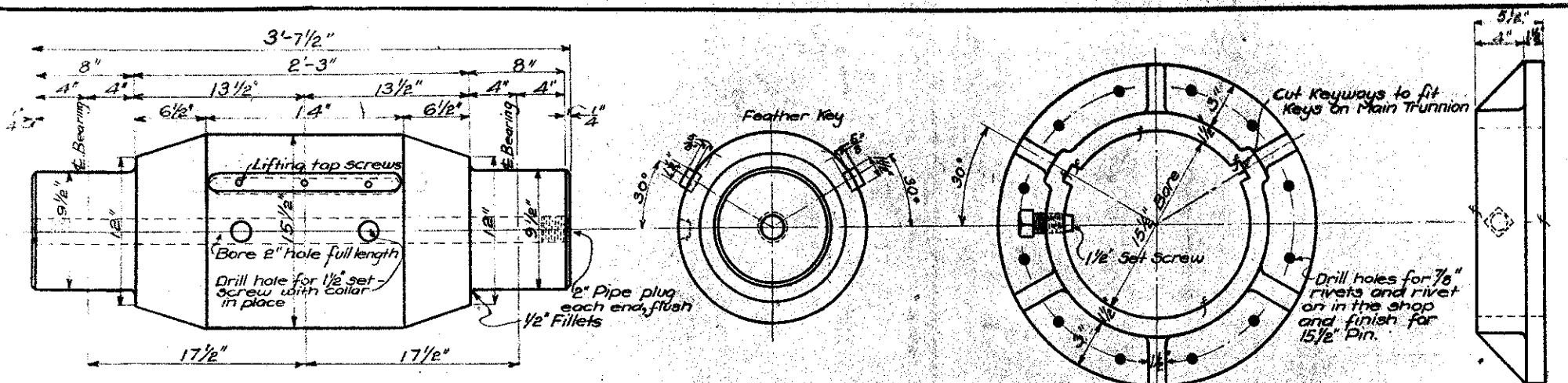
No. Reg'd.	Mark	No. of Teeth	Pitch Dia.	Face	Pitch	Base Mat.	a	b	c	d	e	g	h	Teeth	Keys
15	Rock	21	25	7.25	14.41	6.25	6.6	13						20" Inv.	1 1/8" x 1 1/8"
16	A	115	2.5	7.25	11.54	5.25	6.6	13						1 1/8" x 1 1/8"	
17	B	60	2.5	5.5	47.75	6.25	9.0	10	125	1	125	4.75	75	1 1/8" x 1 1/8"	
18	C	15	2.5	5.5	11.94	6.25	9.0							1 1/8" x 1 1/8"	
19	D	84	1/4 DP	4	48	5.25	5.0	6.5	7/8	3/4	7/8	3/8	3/16	Cut 15" Inv.	1 1/8" x 1 1/8"
20	E	15	4	8 3/4	12.00	5.0								1 1/8" x 1 1/8"	
21	F	150	4 DP	3	37.50	4	4	5.75	1/2	1/2	1/2	1/2	1/16	7 1/8"	
22	G	20	4	3	37.50	4								7 1/8"	
23	H	15	4	3	37.50	1.75	4 1/2							1 1/8" x 3/8" feather	
24	I	72	1 1/2"	3.75	34.38	5.25	6.5	4	125	3/4	3/8	3/4	3/16	Spec. Inv.	1 1/8" x 3/4"
25	J	12	1 1/2"	3.75	7.16	2.75	6.5							3/4" x 1 1/8"	
26	K	110	1"	3.50	35.00	2.75	4	3.30	1/2	1/2	1/2	2	1/16	1 1/8" x 1 1/8"	
27	L	15	1"	3.50	47.75	2.25	4							Cut 15" Inv.	9/16" x 1/2"
28	M	175	5 DP	3	35.00	2.25	4	3.30	1/2	1/2	1/2	2	3/16	1 1/8" x 1 1/8"	
29	N	18	3	3	3.00	1.75								1 1/8" x 3/8" feather	
30	O	17	3	3	3.00	1.75								1 1/8" x 3/8" feather	

TABLE OF BEARINGS

No. Reg'd.	Mark	Base	Length	Mat.	Remarks	Base bolts
1	B-1	6.25	12	C.S.	Typical Bronze bushed	6 B. - 1 1/8" diam.
2	B-2	5.25	9	"	Typical Babbitt	4 B. - 1 1/8"
3	B-3	5.25	9	"	Typical Babbitt	4 B. - 1 1/8"
4	B-4	4.00	6 1/2	C.S.	"	4 B. - 3/4"
5	B-5	1 3/4	5 1/2	C.S.	"	2 B. - 3/4"
6	B-6	3.25	7	C.S.	"	2 B. - 7/8" & Dowels
7	B-7	2.25	7	C.S.	"	2 B. - 7/8" & Dowels
8	B-8	2.25	7	C.S.	"	2 B. - 7/8" & Dowels
9	B-9	3	12	C.S.	Special (BONE)	4 B. - 1 1/8"
10	B-10	3	8	C.S.	"	4 B. - 1 1/8"
11	B-11	2 1/2	8	C.S.	"	4 B. - 1 1/8"
12	B-12	1 3/4	3 1/2	C.S.	"	4 B. - 1 1/8"

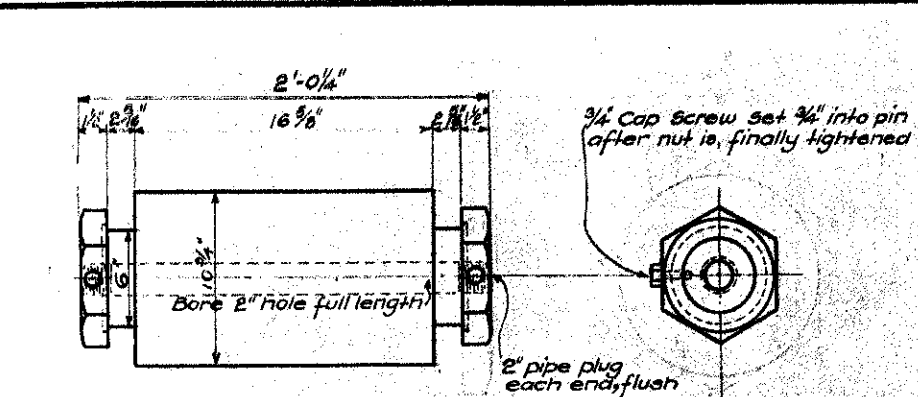
STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY W.F.H.
 TRACED BY C.C.
 CHECKED BY L.H. 11/22/12.
 REVISED
 GENERAL MACHINERY
 SHEET NO. 10
 SCALE 1/2" = 1'-0"
 DATE 11-5-12.
 GEN. FILE 11
 BOI OF 77032

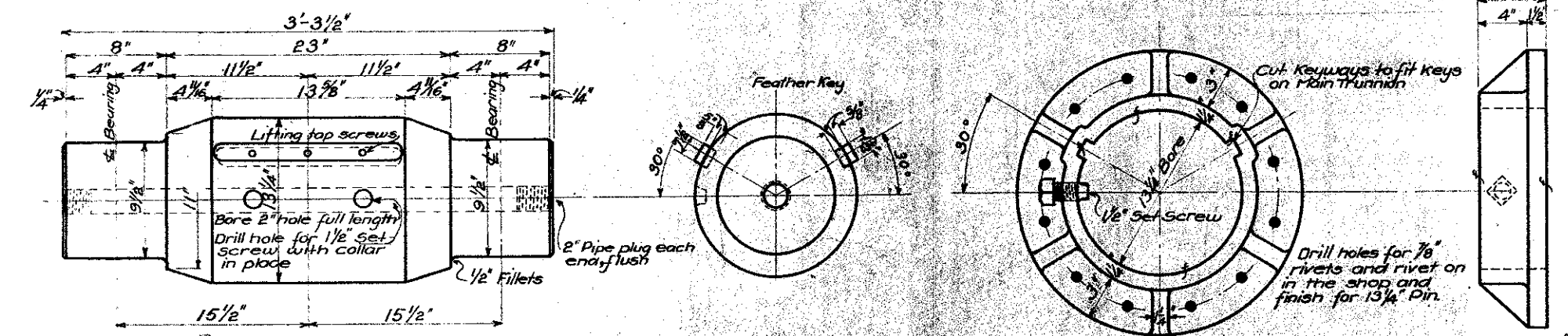


MAIN TRUNNION (CENTER GIRDER)
2 REQ'D - FORGED STEEL - FINISH ALL OVER

MAIN TRUNNION COLLAR (CENTER GIRDER)
4 REQ'D - CAST STEEL

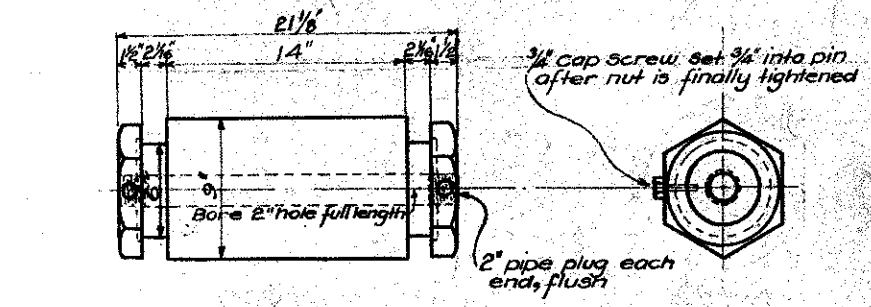


L.L. ANCHOR PIN (CENTER GIRDER)
2 REQ'D - FORGED STEEL - FINISH ALL OVER

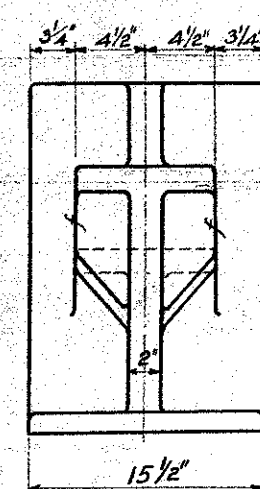


MAIN TRUNNION (OUTSIDE GIRDER)
4 REQ'D - FORGED STEEL - FINISH ALL OVER

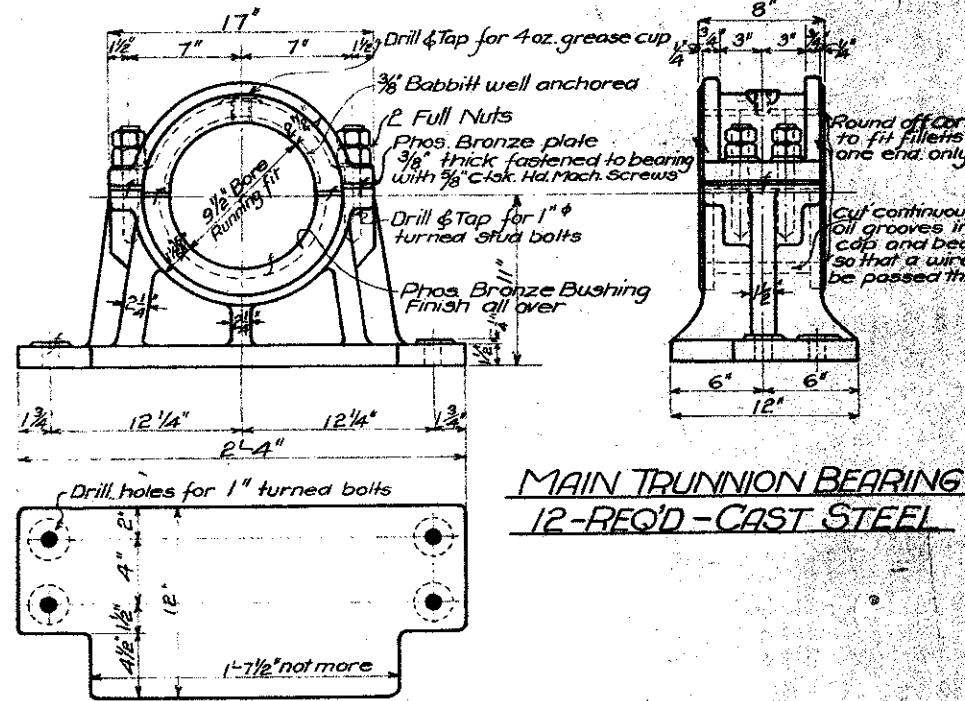
MAIN TRUNNION COLLAR (OUTSIDE GIRDER)
8 REQ'D - CAST STEEL



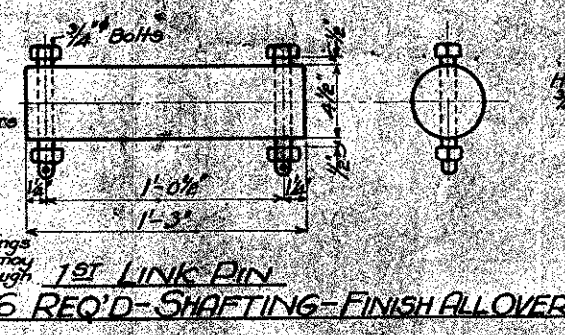
L.L. ANCHOR PIN (OUTSIDE GIRDER)
4 REQ'D - FORGED STEEL - FINISH ALL OVER



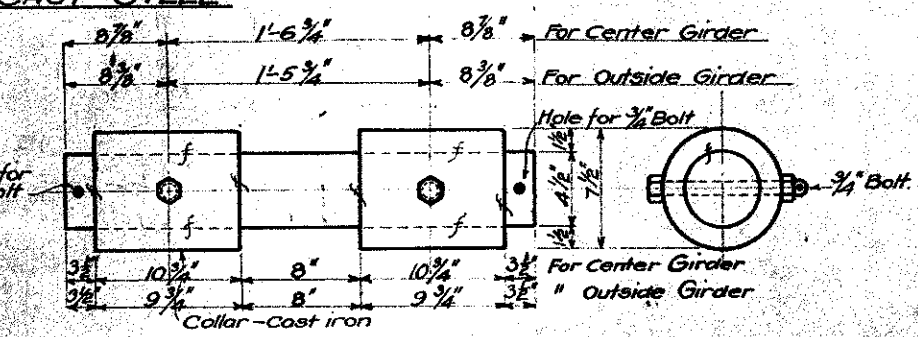
ANCHOR PIN SEAT (CENTER GIRDER)
2 REQ'D - CAST STEEL



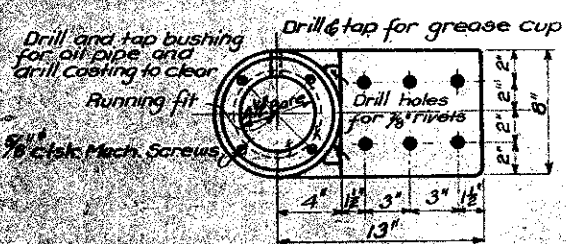
MAIN TRUNNION BEARING
12 REQ'D - CAST STEEL



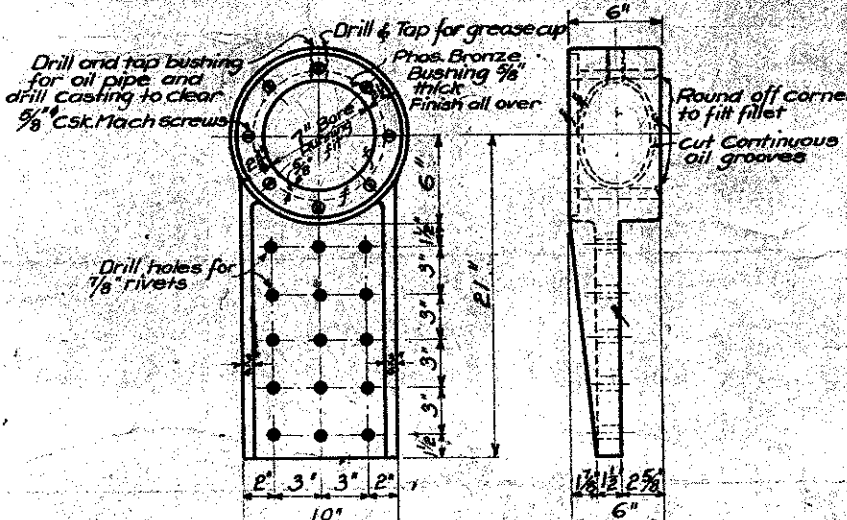
1ST LINK PIN
6 REQ'D - SHAFING - FINISH ALL OVER



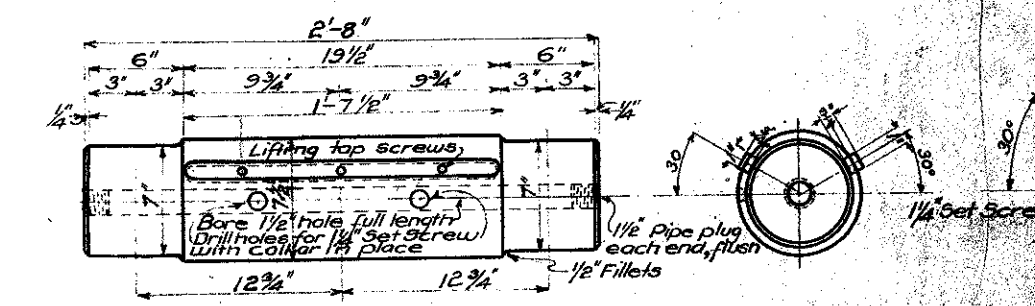
2ND LINK PIN
6 REQ'D - SHAFING - FINISH ALL OVER



1ST AND 2ND LINK PIN BEARING
12 REQ'D - CAST STEEL
Shop-Riveted to Link

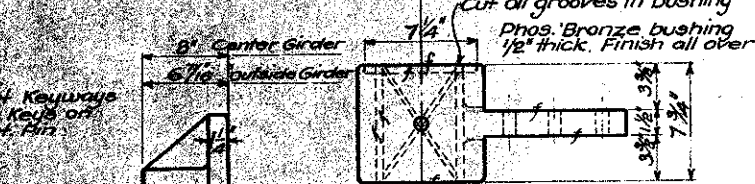


C.T.W.T. PIN BEARING
12 REQ'D - CAST STEEL
Rivet to C.T.W.T. Frame in shop

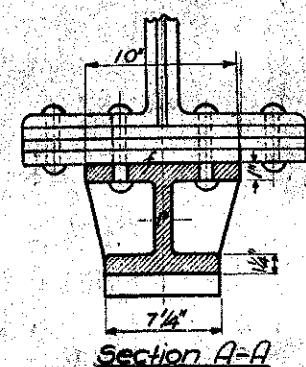


C.T.W.T. PIN (CENTER GIRDER)
2 REQ'D - FORGED STEEL - FINISH ALL OVER

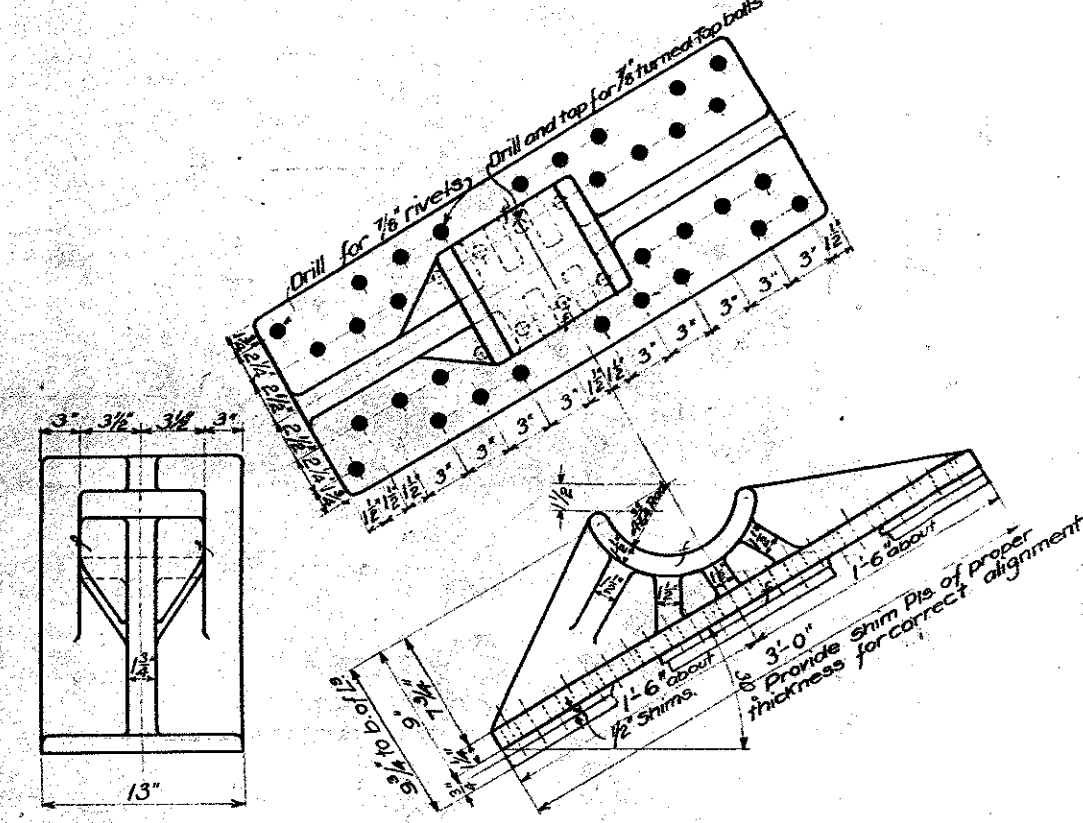
C.T.W.T. PIN COLLAR
12 REQ'D - CAST STEEL
8 For outside Girder
2 For Center Girder



RACK SEGMENT
12 REQ'D - CAST STEEL
2 1/2 PITCH - 7 1/2 FACE - 21 TEETH - 6'-0" P.R.



Section A-A

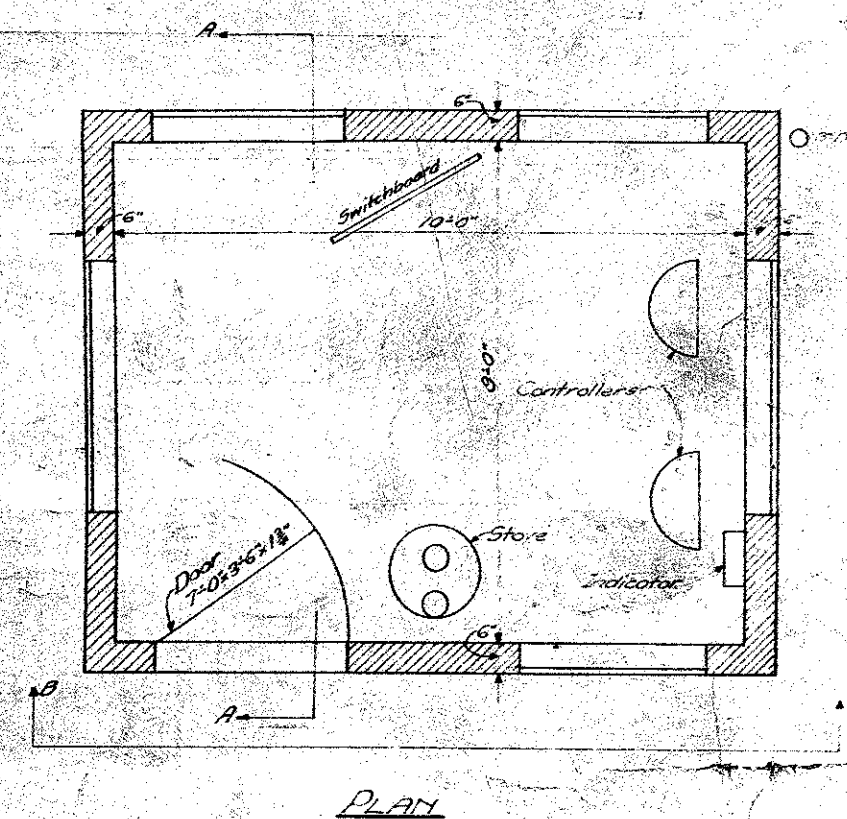
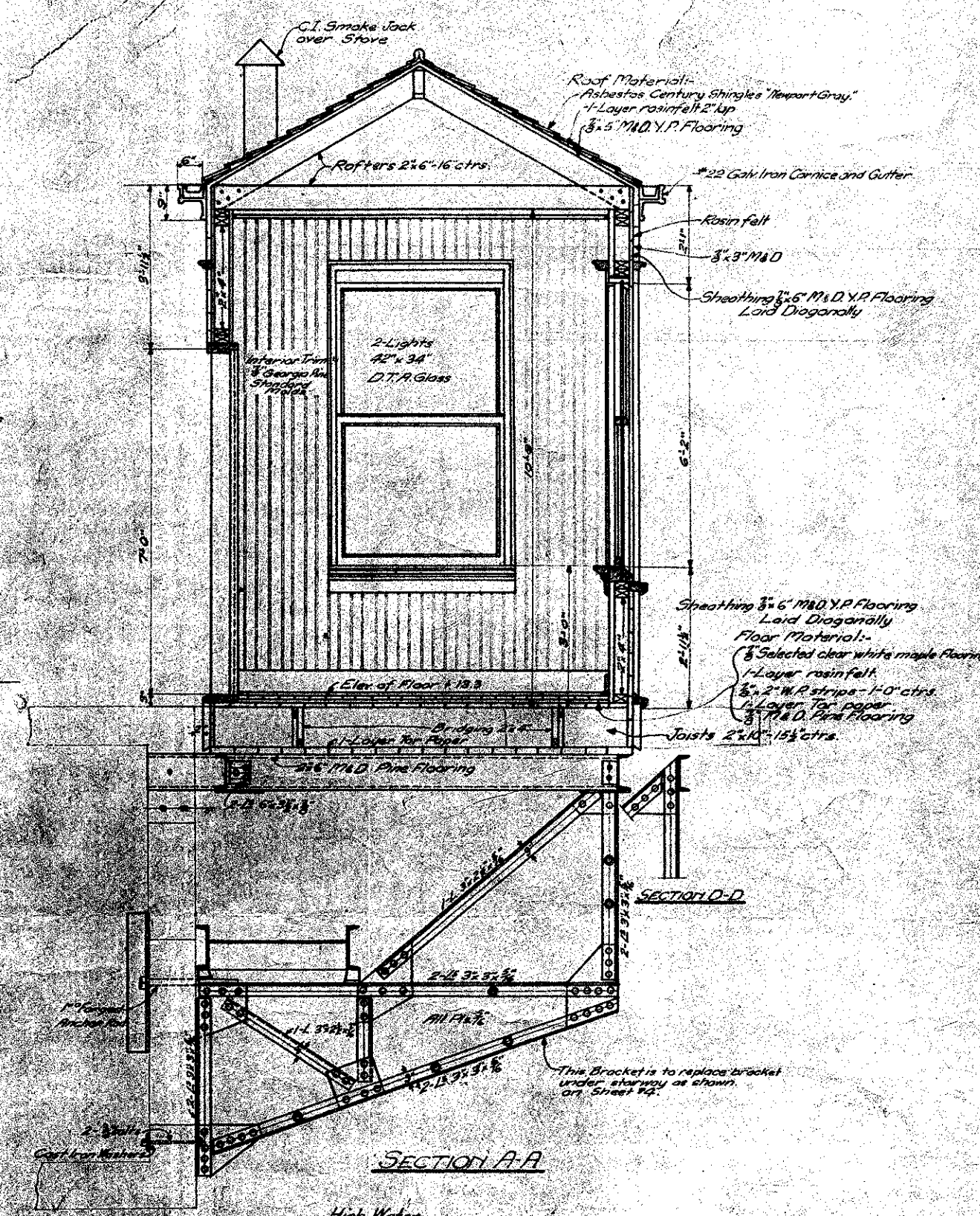
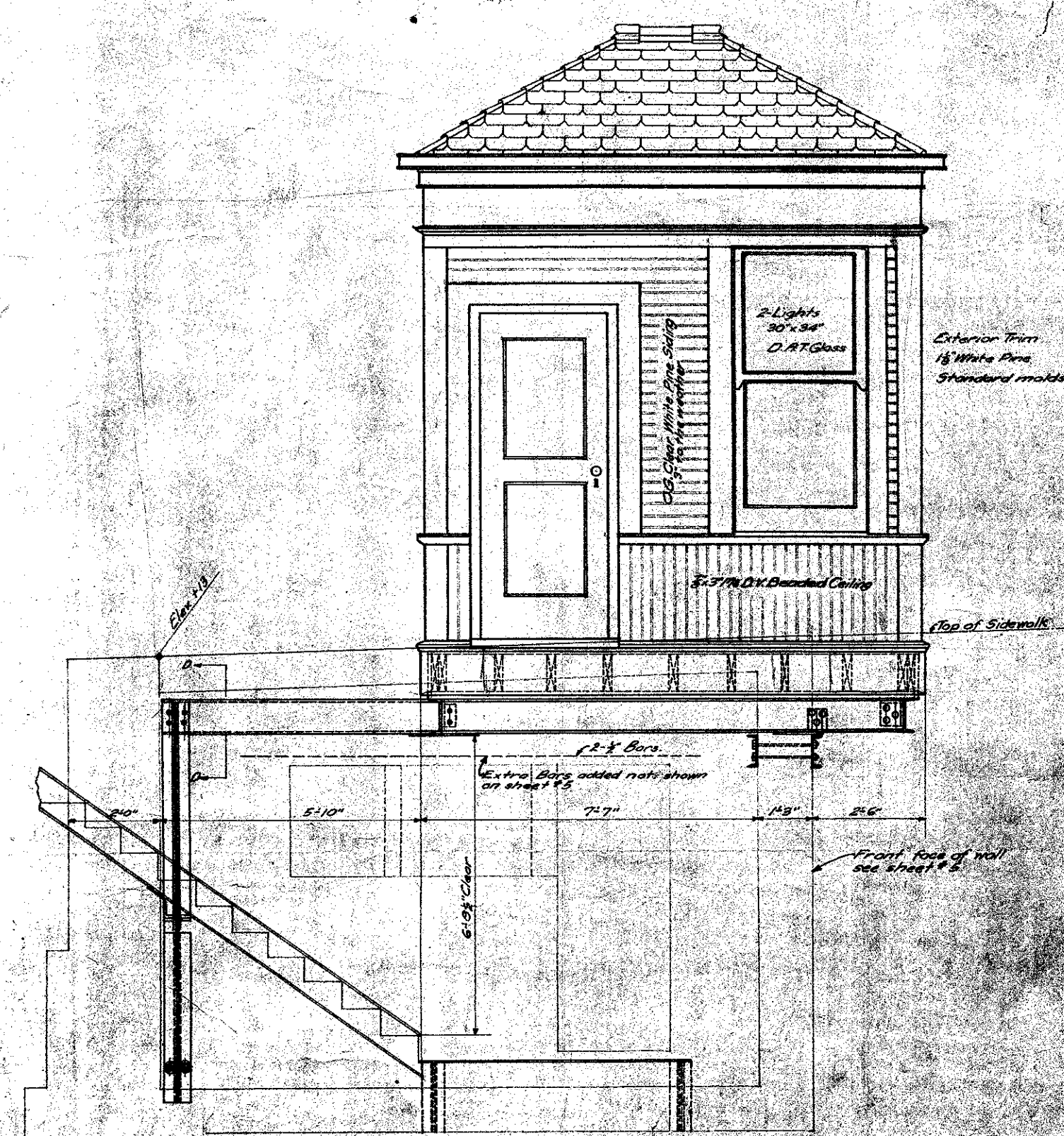


ANCHOR PIN SEAT (OUTSIDE GIRDER)
4 REQ'D - CAST STEEL

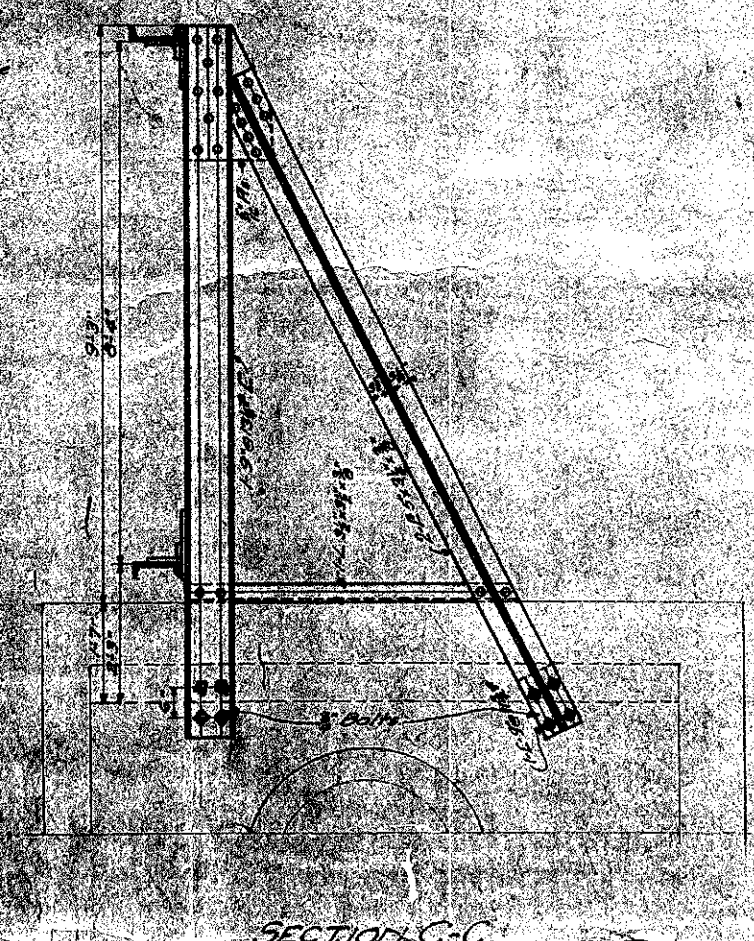
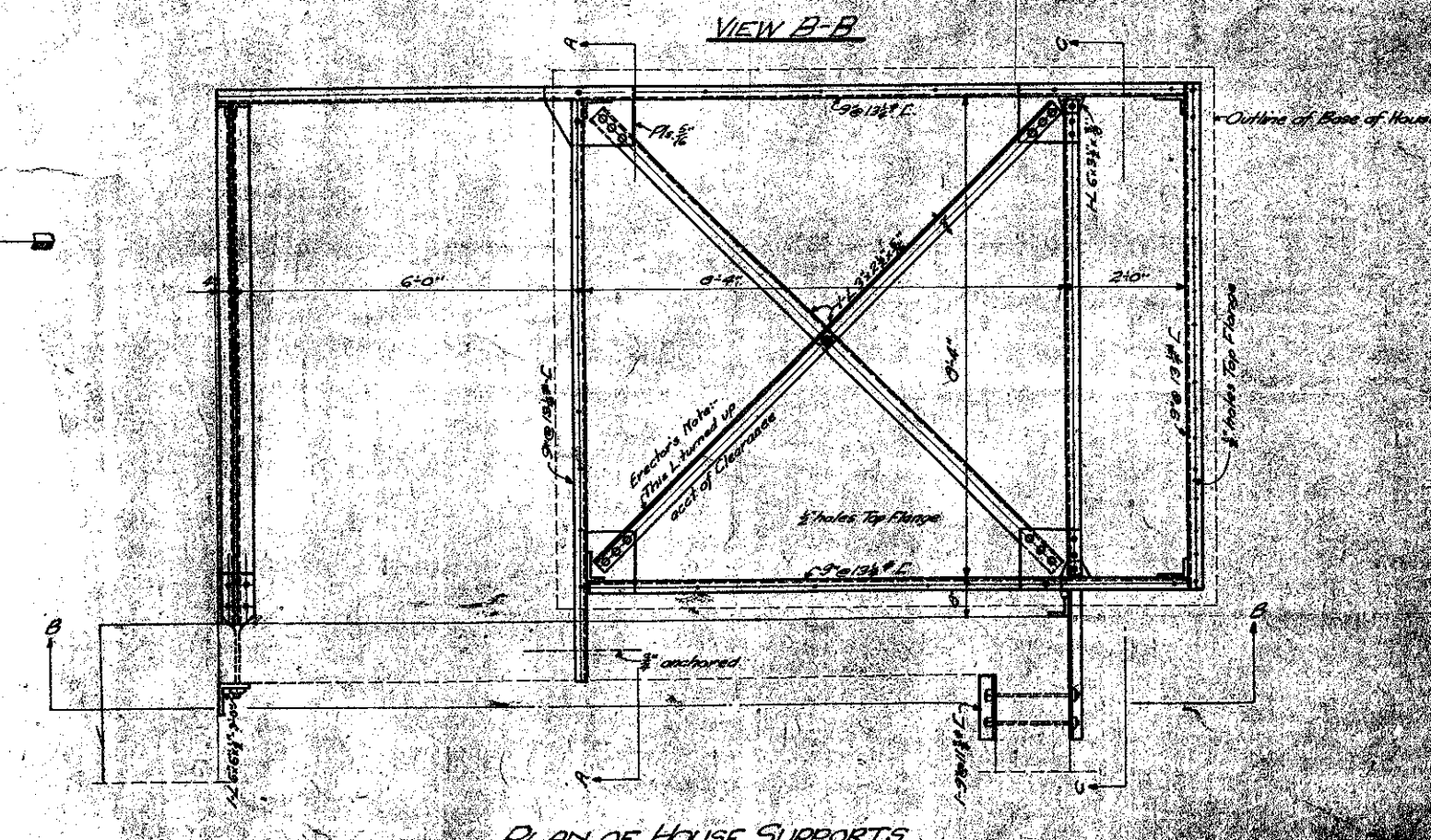
Gen'l. Note:
Material & workmanship as per specifications:
Specifications: Osborns Engineering Co's general
Specifications for Electric Railway Bridge Superstructures
as supplemented by The Strauss Bascul Bridge Co's
specifications for this bridge.

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY C.H.T.
TRACED BY C.C.
CHECKED BY J.H.H. 11/12/12
REVISED
THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO
SCALE 1/2"=1'-0"
DATE 11-8-12
GEN. FILE 11
TRUNNIONS PINS & BEARINGS
SHEET NO. 11



General Notes:
Material and Workmanship as per Specifications
Rivets 3"
Steel Bolts 3" except as noted
Specifications see Sheet #2



SECTION A-A

High Water

STRAUSS TRUNNION BASCULE BRIDGE
PATENTED
OVER
BLACK RIVER AT MILITARY STREET
FOR
CITY OF PORT HURON, MICH.

DRAWN BY J.H.R.
TRACED BY L.E.M.
CHECKED BY J.H.R. 1/30/13
REVISED
OPERATOR'S HOUSE

THE STRAUSS
BASCULE BRIDGE CO.
CHICAGO

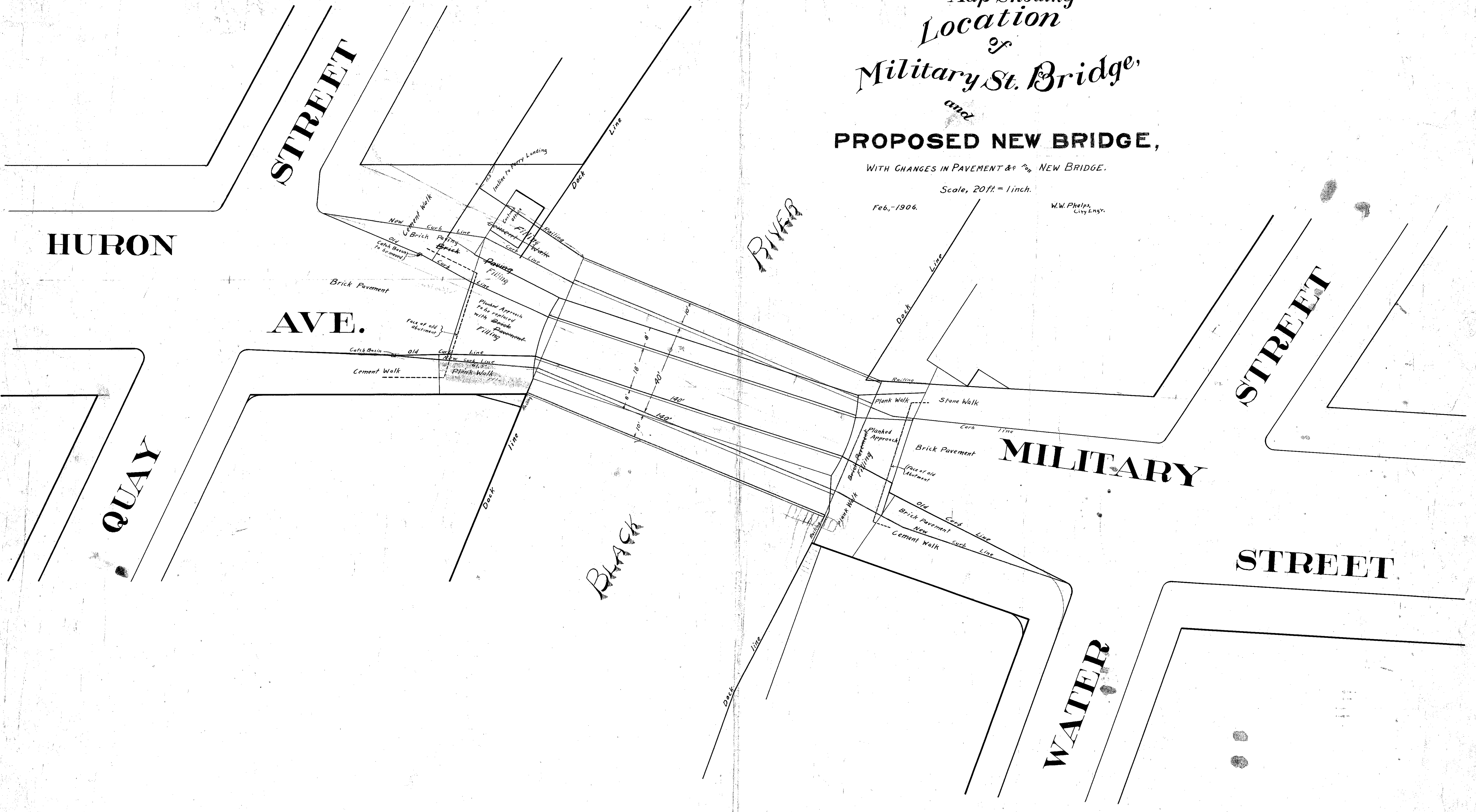
SCALE 3/4" = 1'-0"
DATE 1-24-13
GEN FILE 11

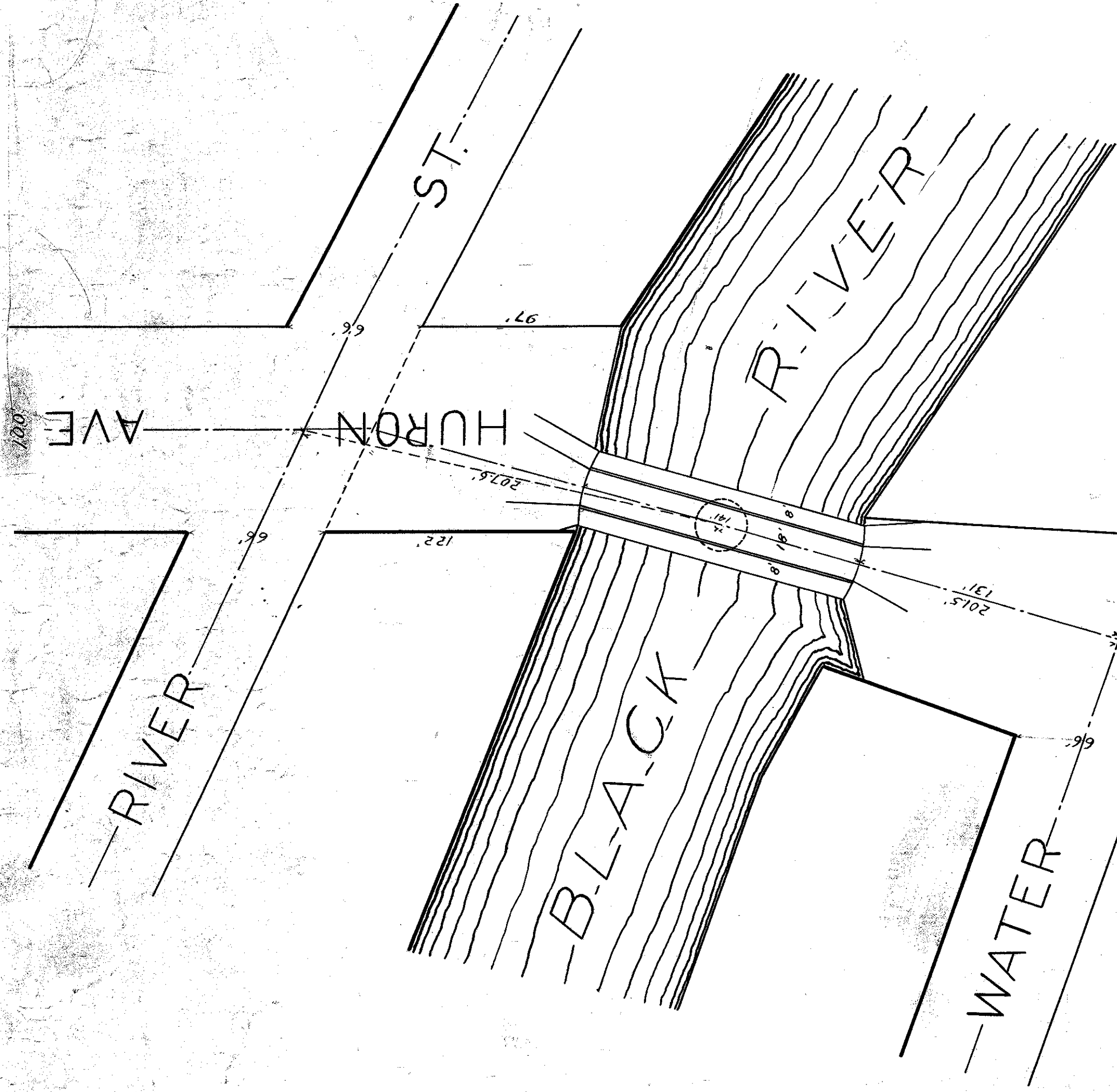
SHEET NO. 13

B01 of 17032

Map Showing
Location
of
Military St. Bridge,
and
PROPOSED NEW BRIDGE,
WITH CHANGES IN PAVEMENT & NEW BRIDGE.

Scale, 20ft. = 1 inch.
Feb., 1906.
W.W. Phelps,
City Eng'r.





Map Showing Location of

MILITARY ST. BRIDGE

PORT HURON.

Scale 50' = 1" Dec. 15, '05.

City Engineer's Office.

W.W. PHELPS.

City Eng'r.

(Traced from old map)

PINE ST.

MILITARY ST.

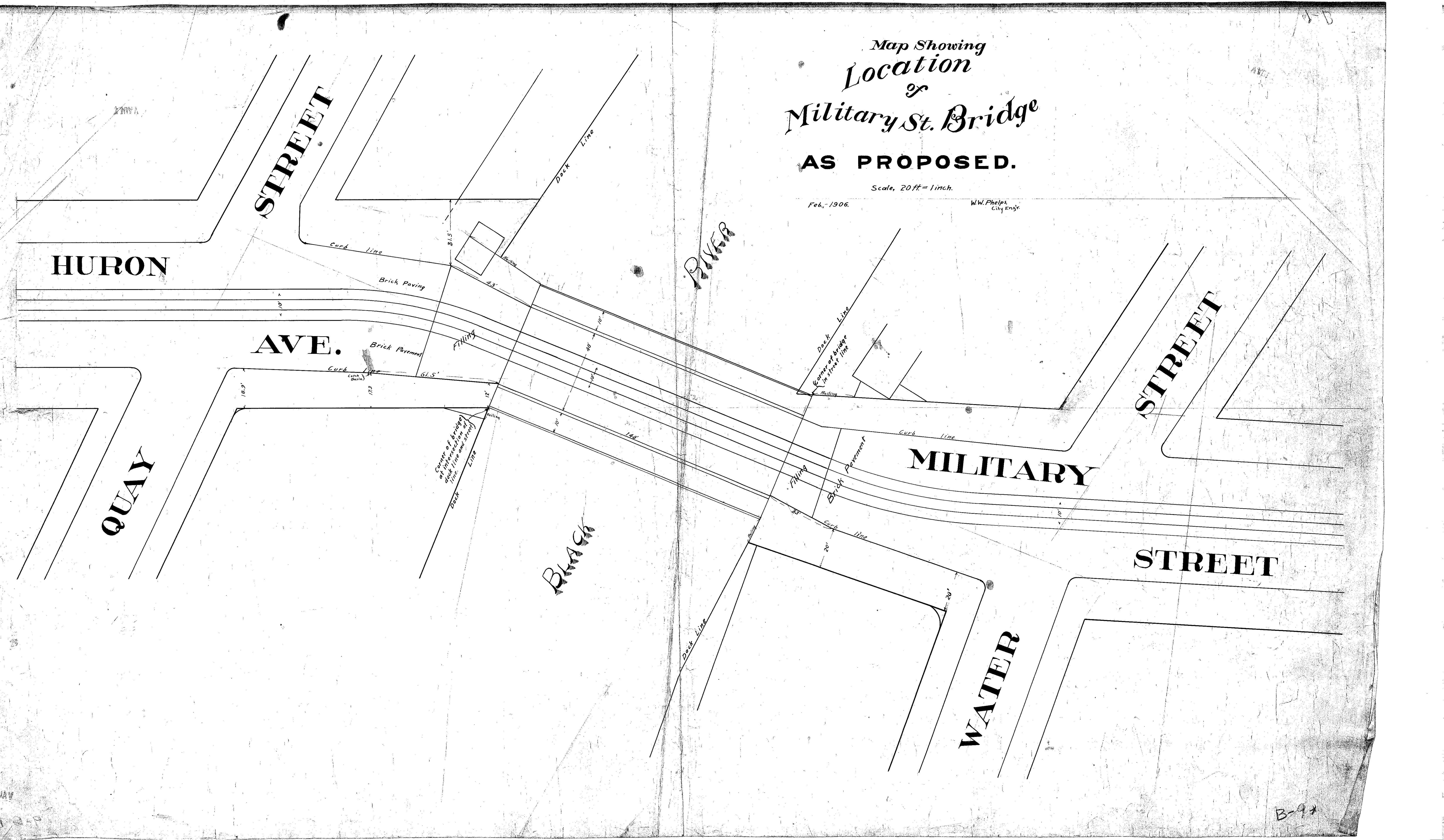
Map Showing
Location
of
Military St. Bridge

AS PROPOSED.

Scale, 20 ft. = 1 inch.

Feb., 1906.

W.W. Phelps
City Eng'r



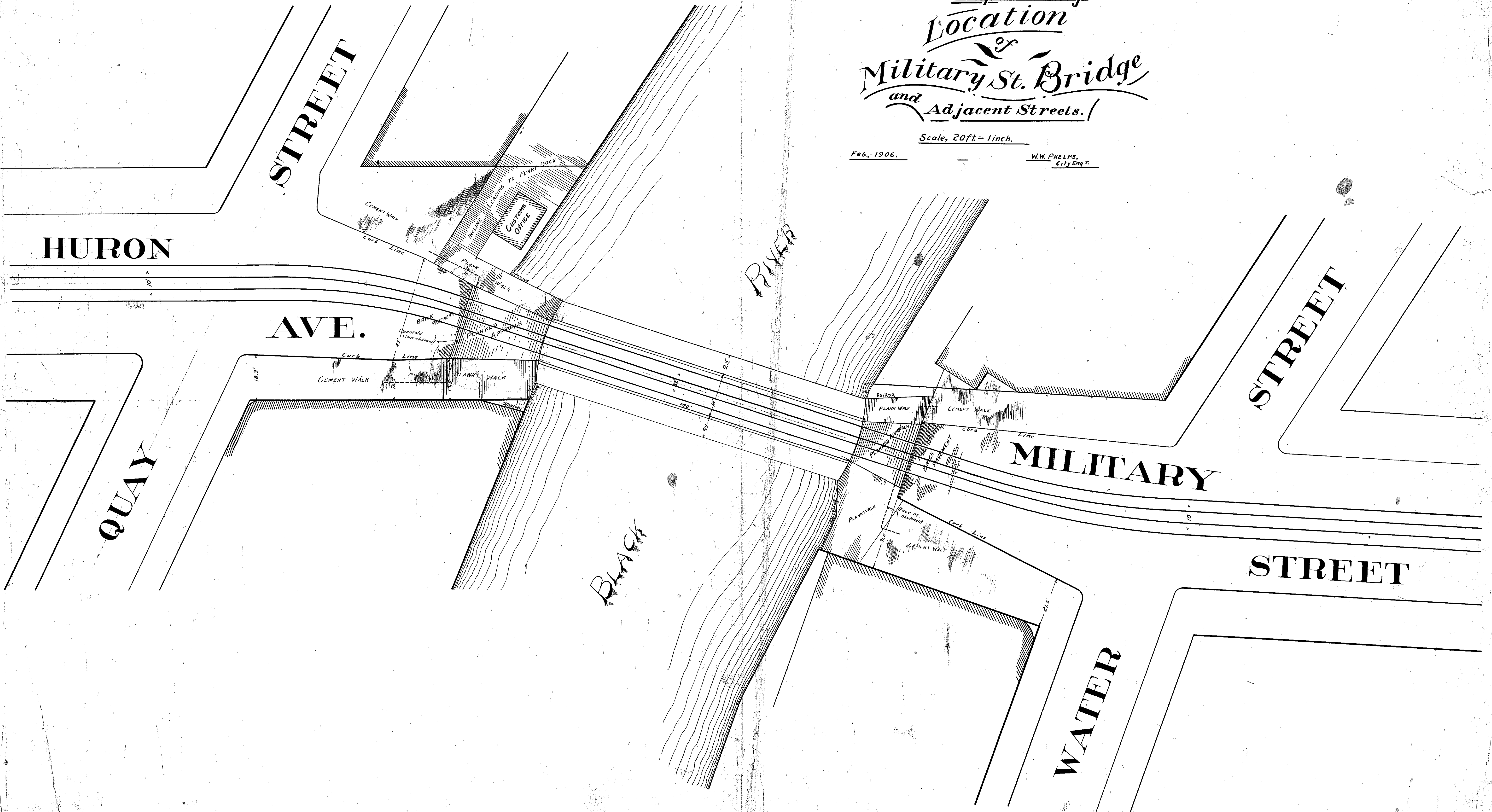
B-9*

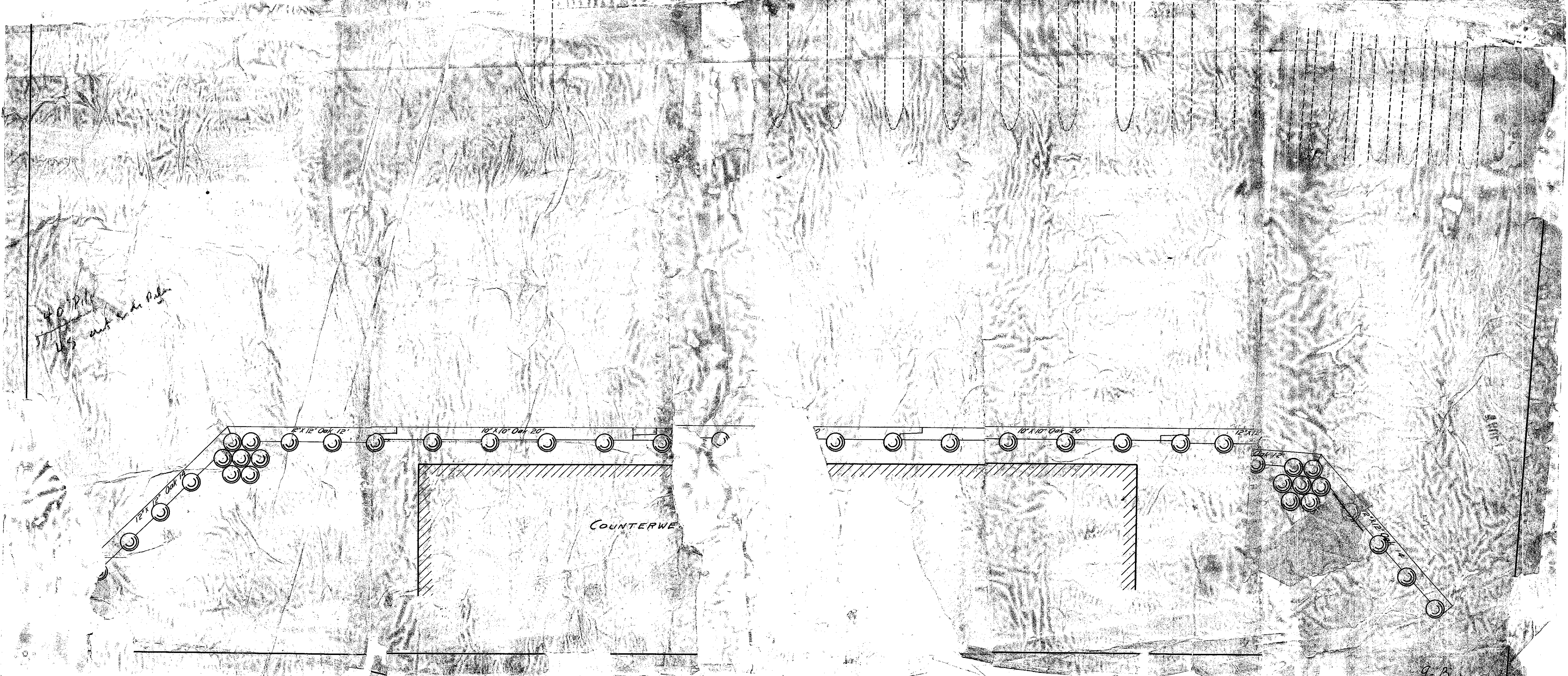
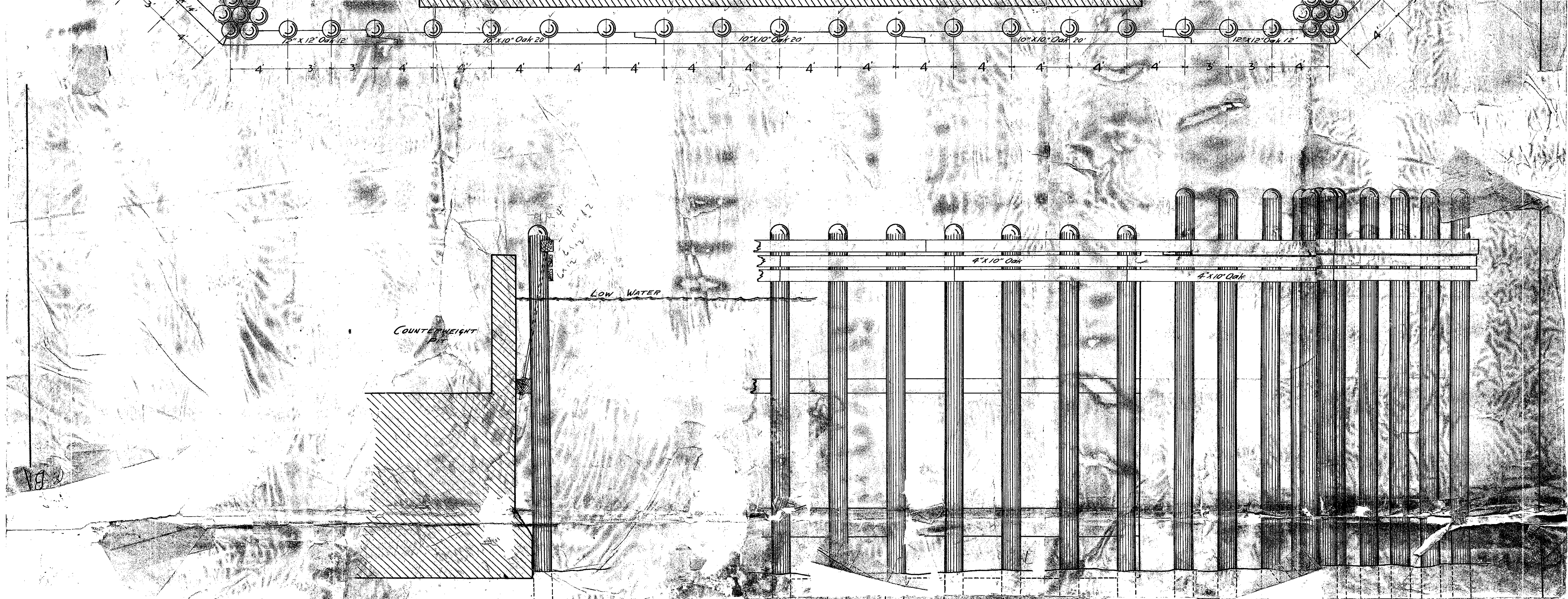
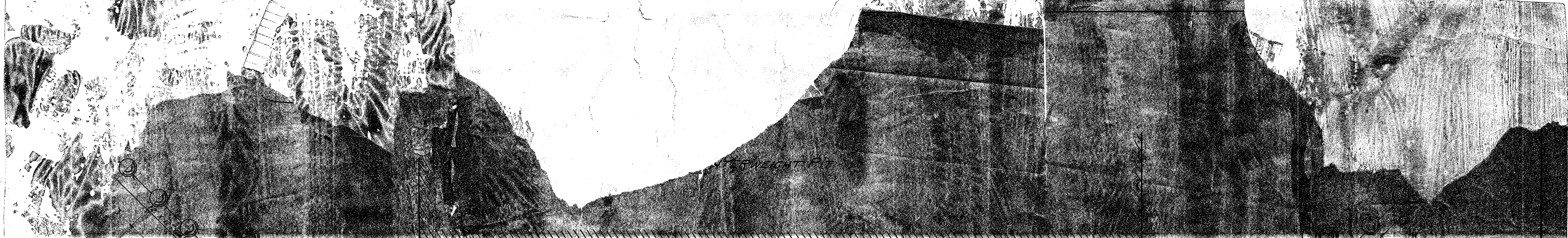
*Map Showing
Location
of
Military St. Bridge
and
Adjacent Streets.*

Scale, 20ft. = 1 inch.

Feb., 1906.

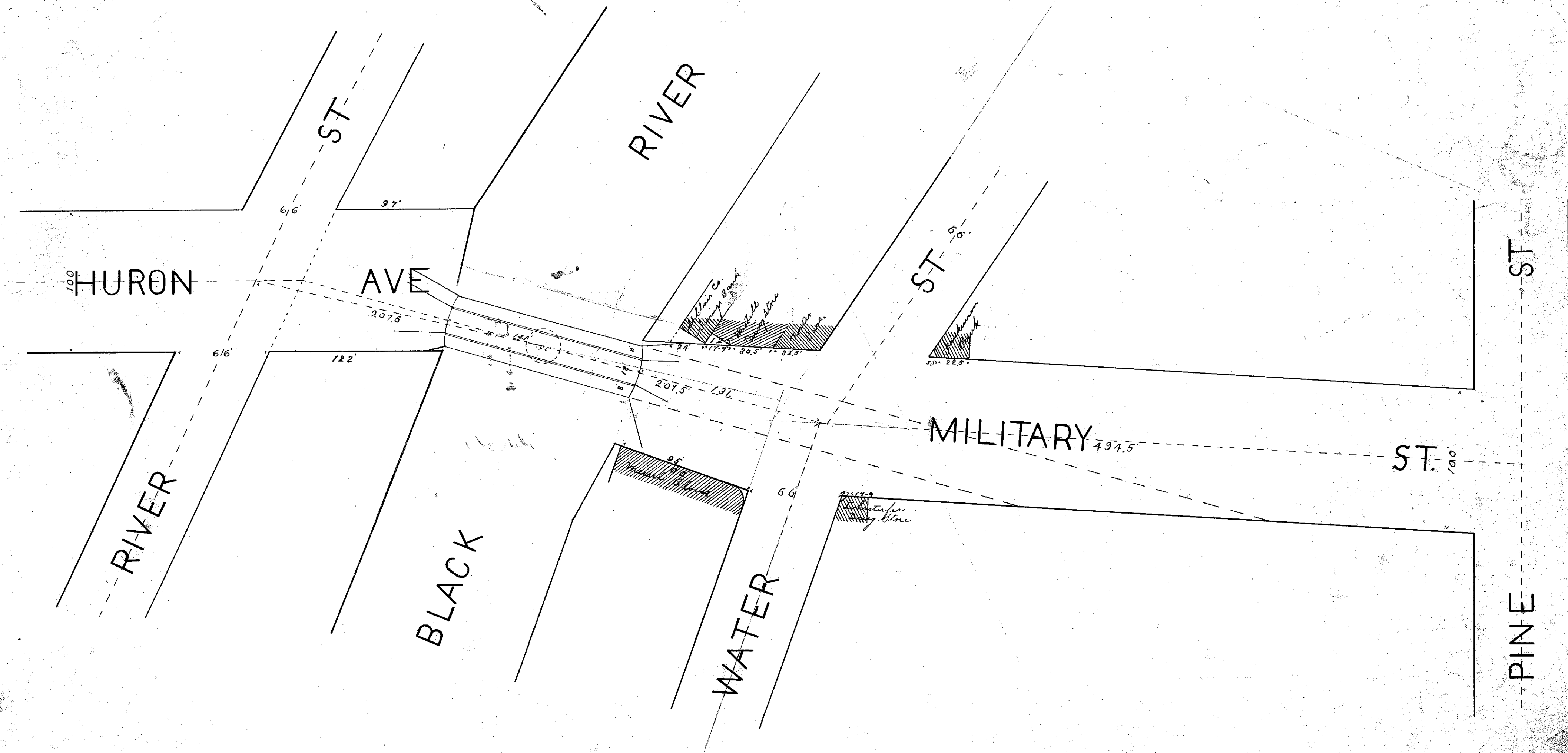
W.W. PHELPS,
City Eng'r.



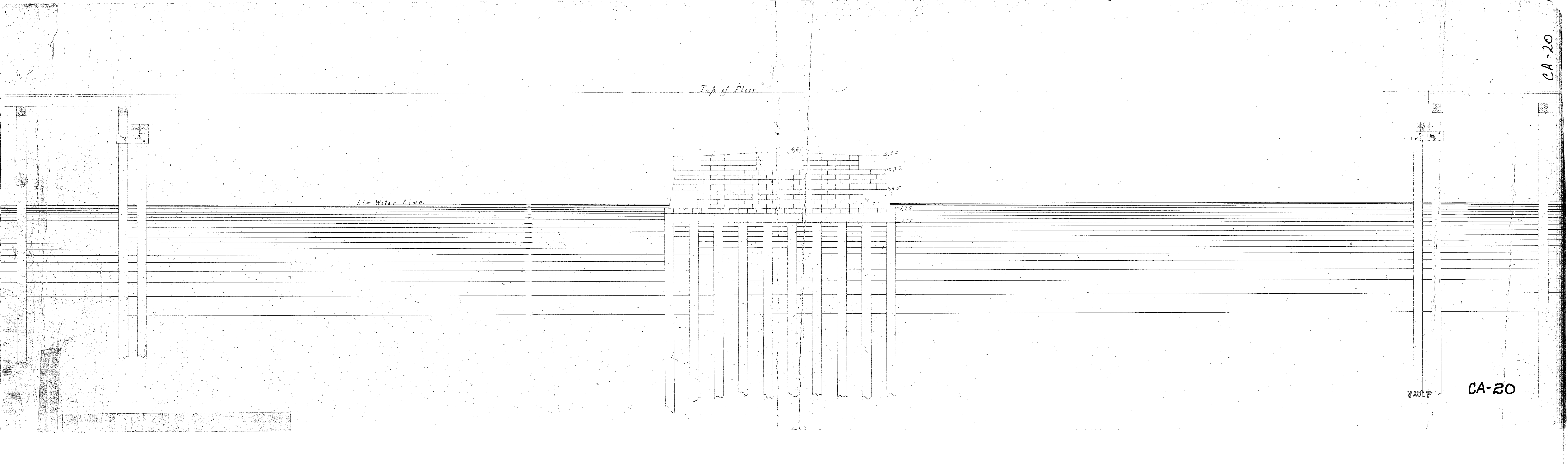


9-B

VAULT 4072100
5706
5015



VAULT 4072100
5706
5015



Top of Floor

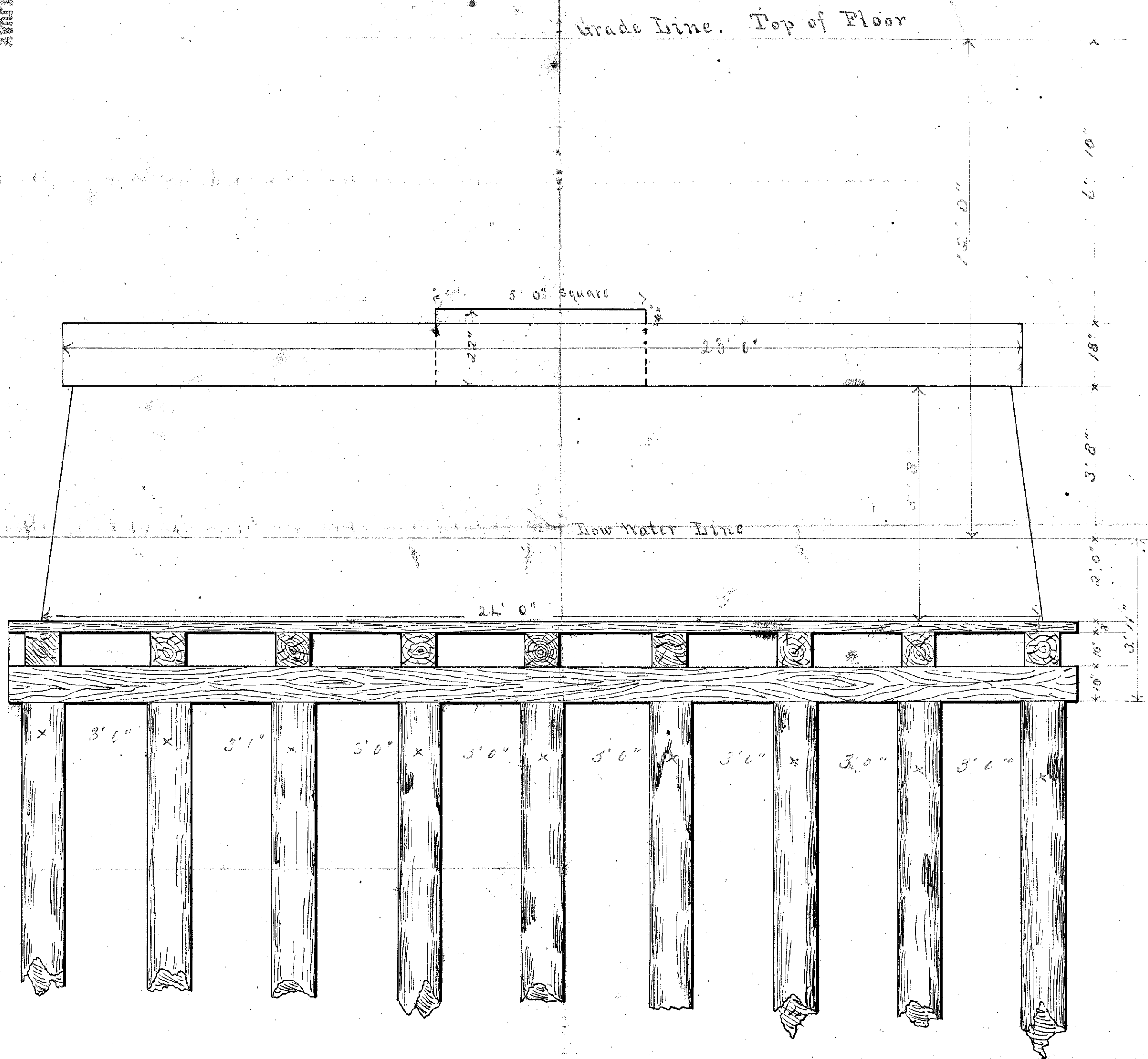
Low Water Line

CA-20

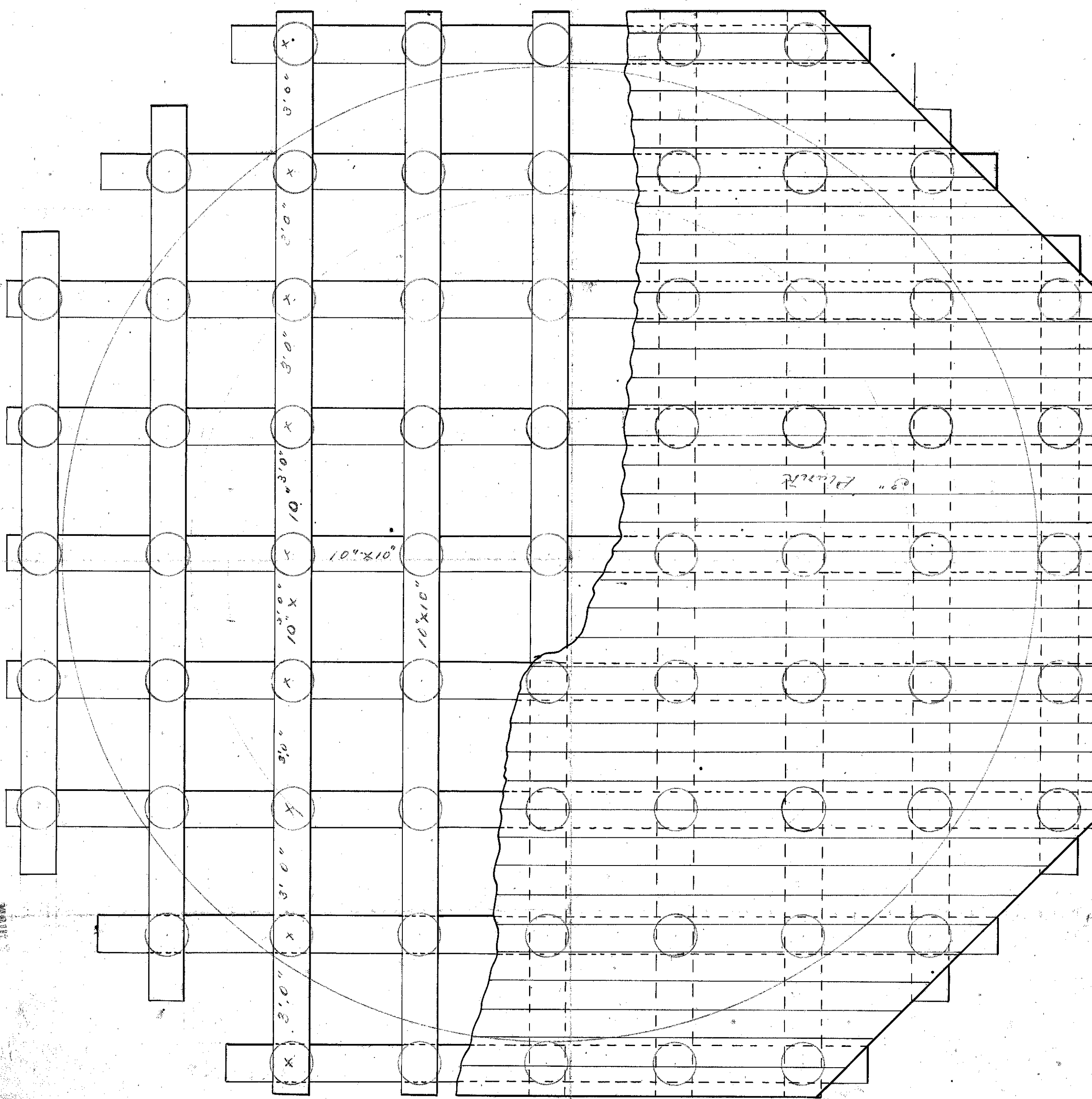
CA-20

VAULT

PLAN

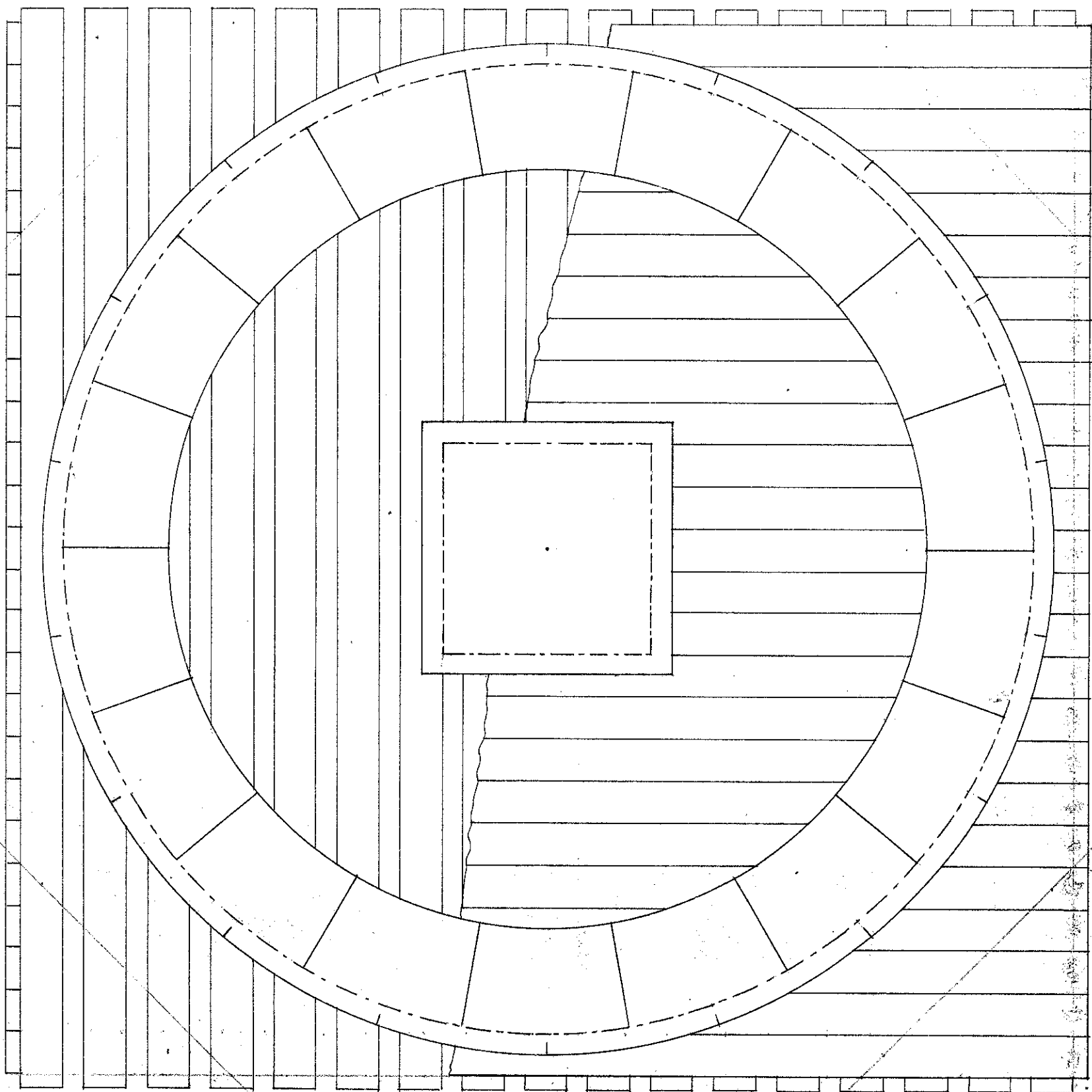
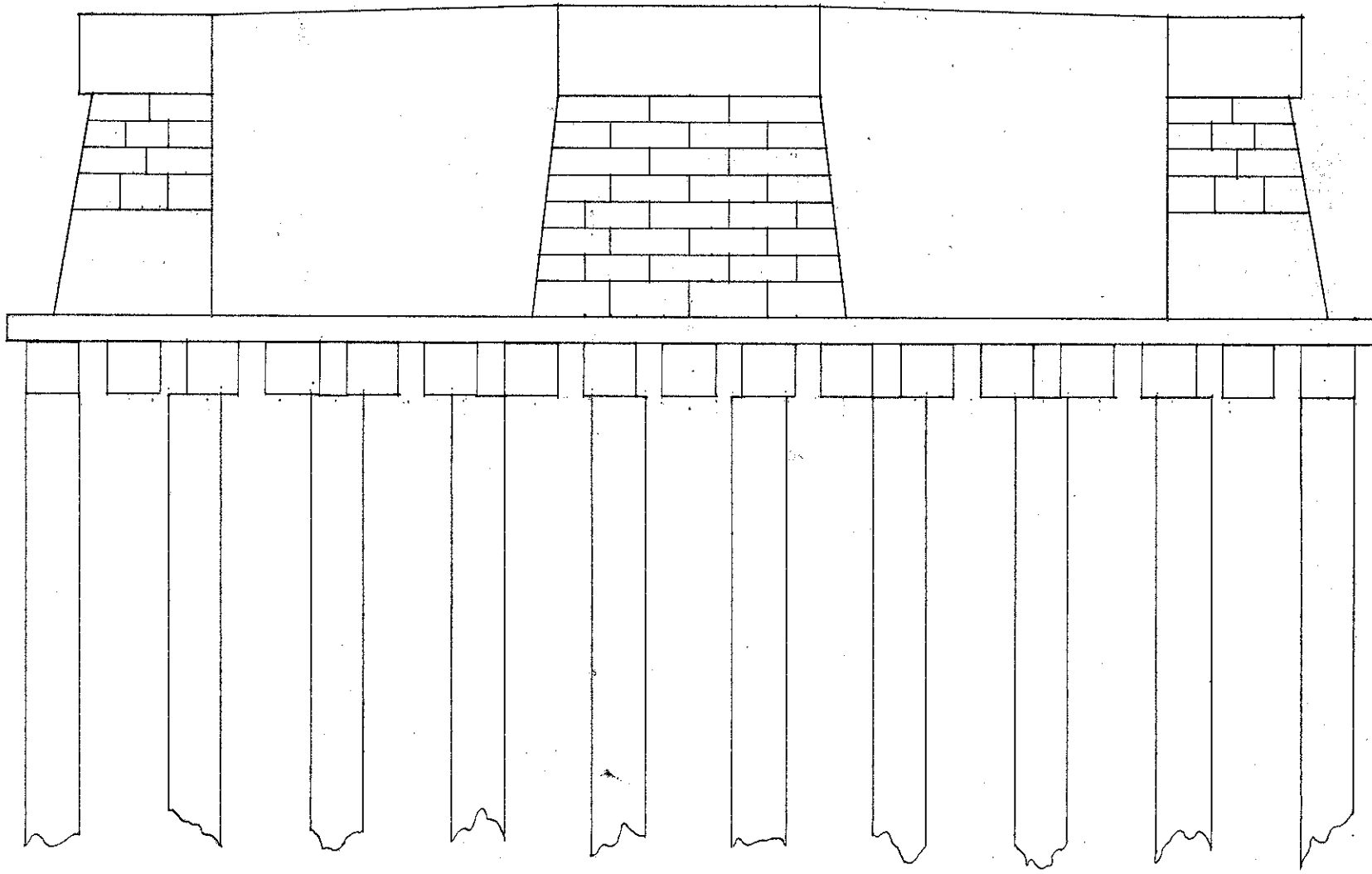


Plan for Center Pier
for
Bridge over Black River in the
City of Port Huron, Mich.
Scale $\frac{1}{2}'' = 1'$



CA-21

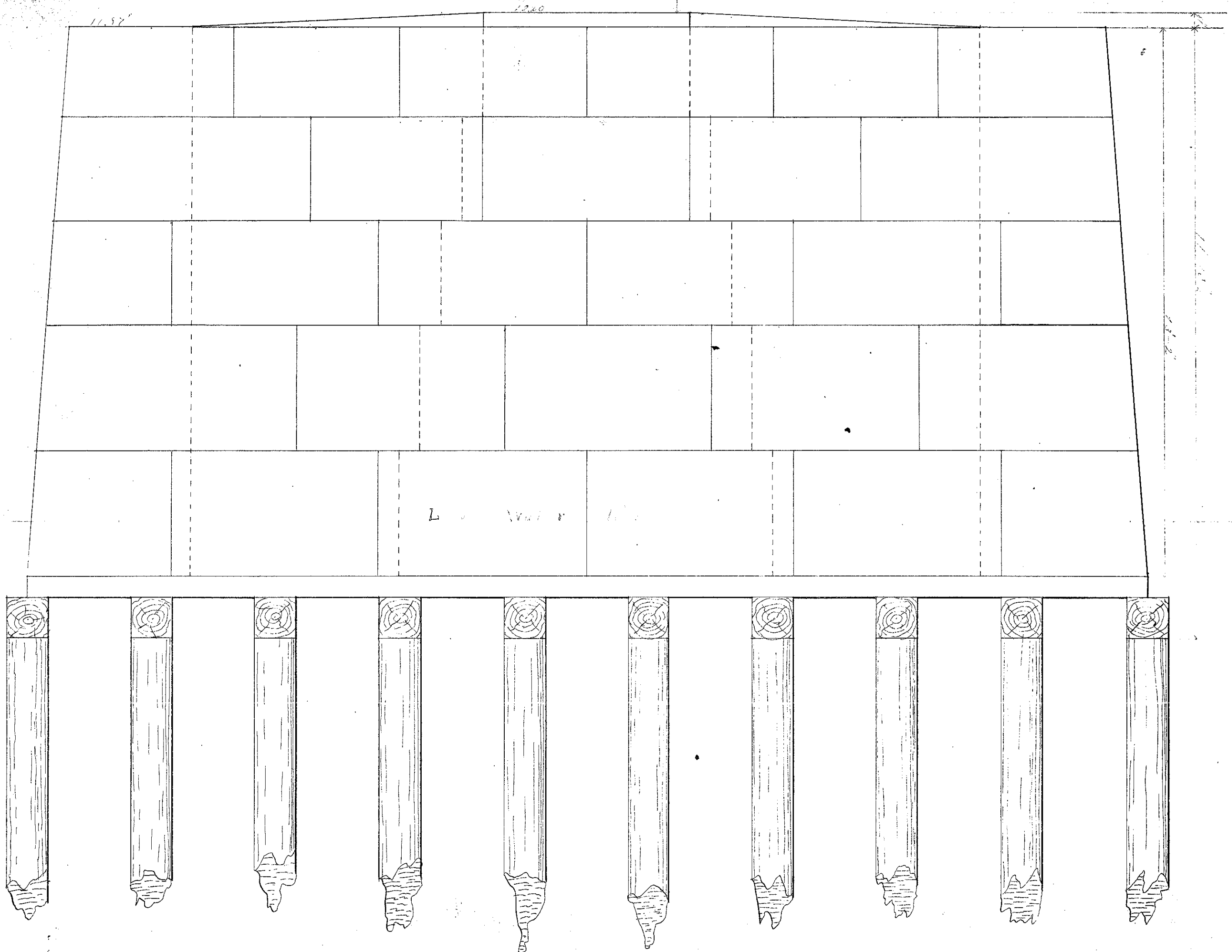
CA-21



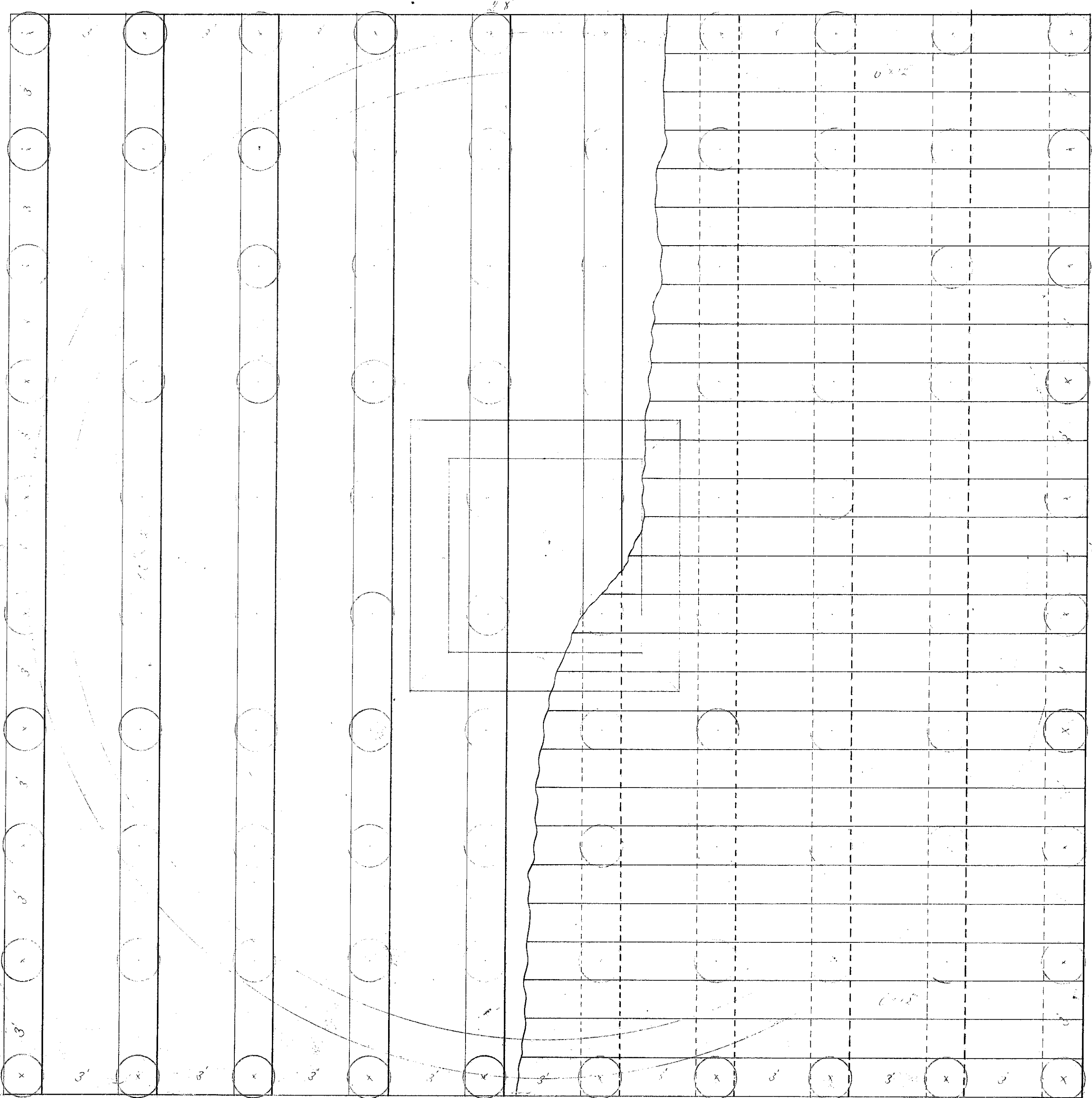
VAULT

CA-22

CA-22



Plan for Center Pier
for
Bridge over Black River in the
City of Port Huron
Scale 2"=1 inch



13-2
7
25-0
1-30
18-70

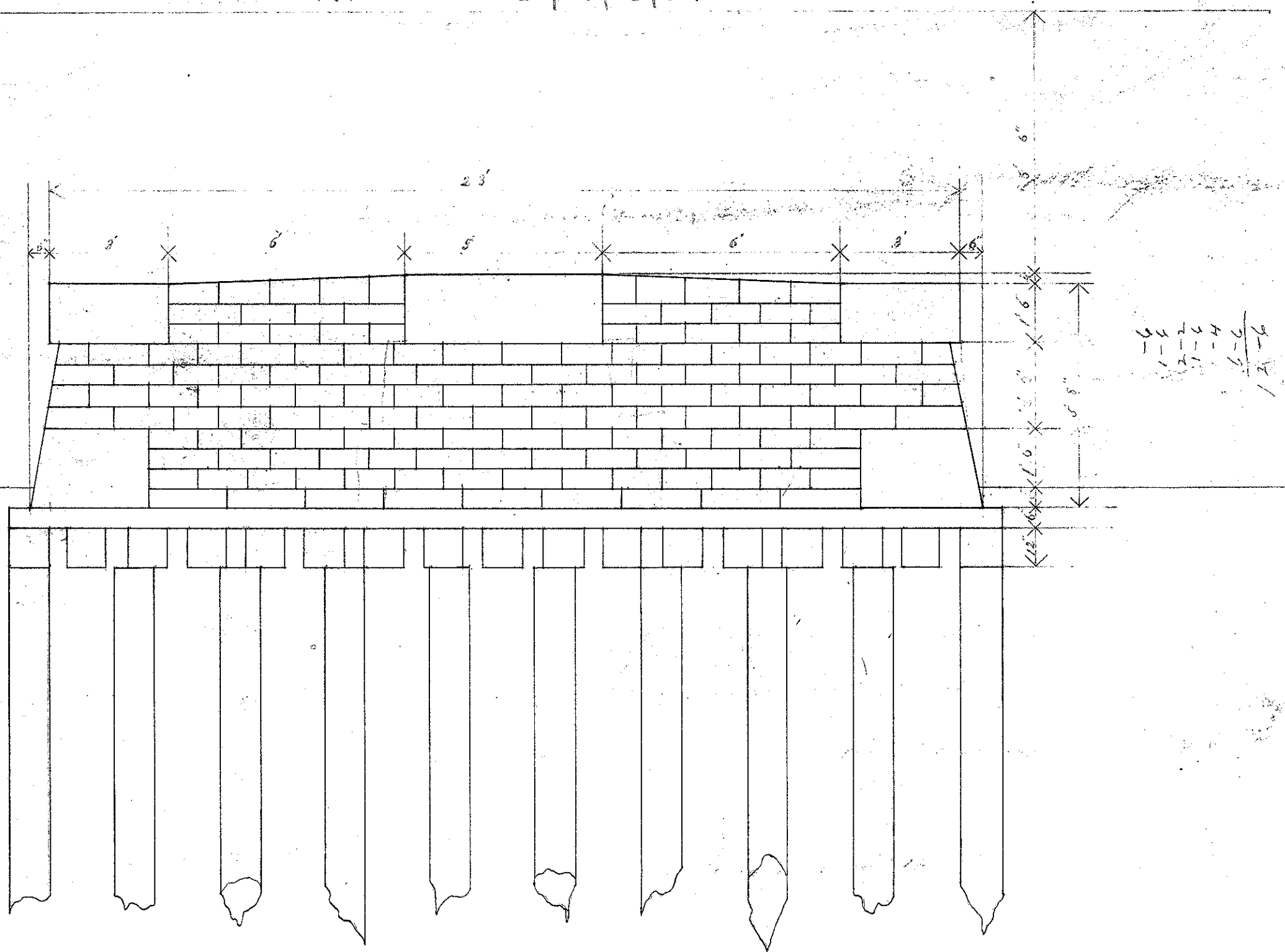
14
-130
12,70

1700

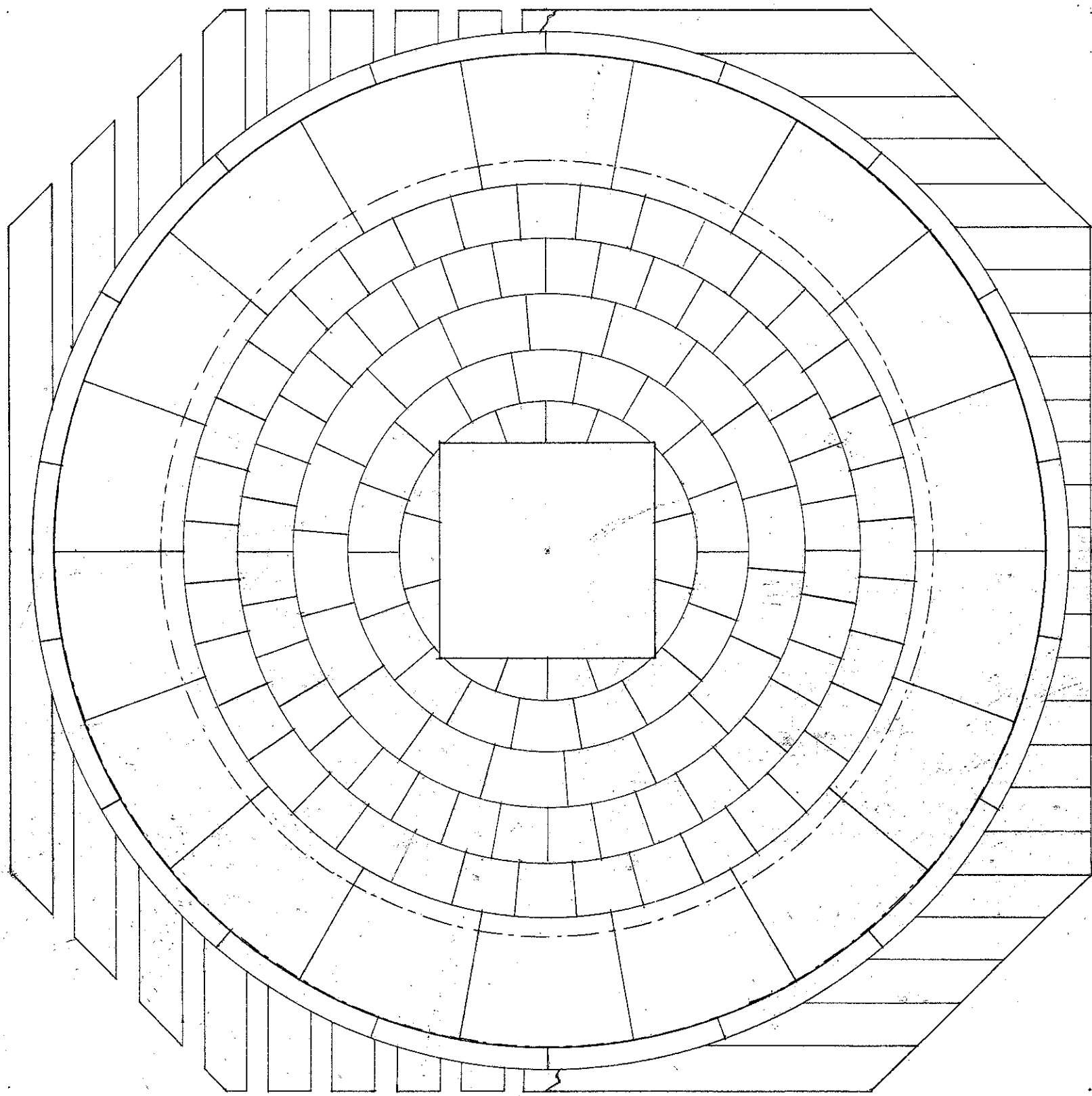
12-30

Grade Line Top of Floor

Low Water Line

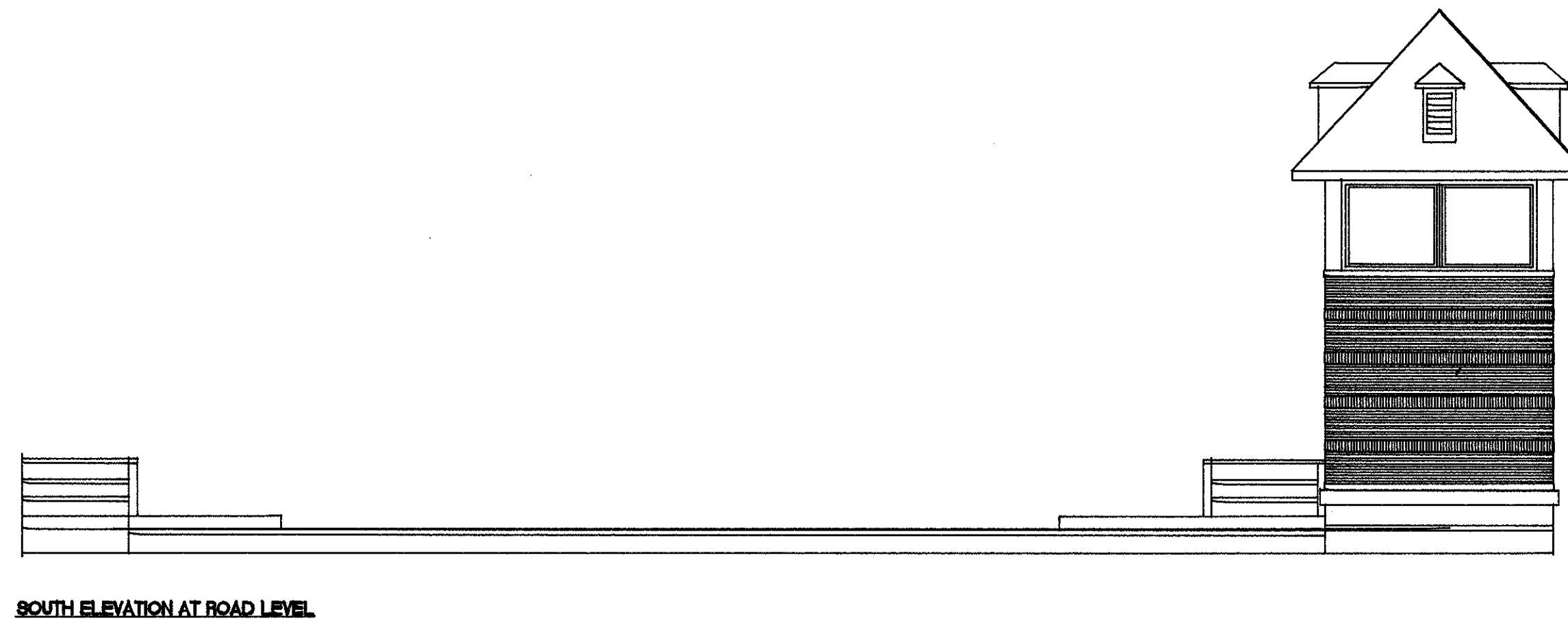


Plan for Center Pier
for
Bridge over Black River, in the
City of Port Huron, Mich
Scale 3"=1"

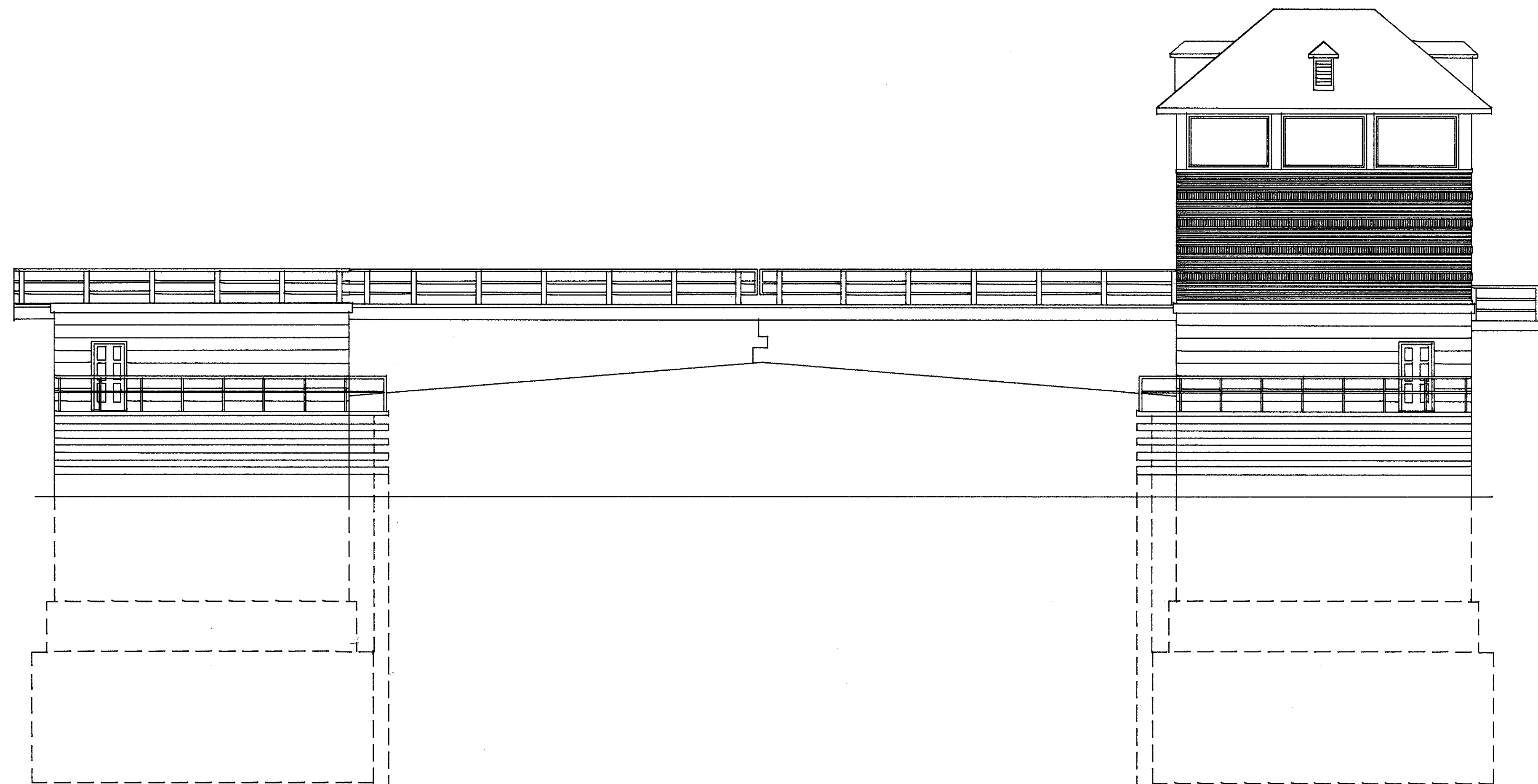


VAULT

CA-24



SOUTH ELEVATION AT ROAD LEVEL

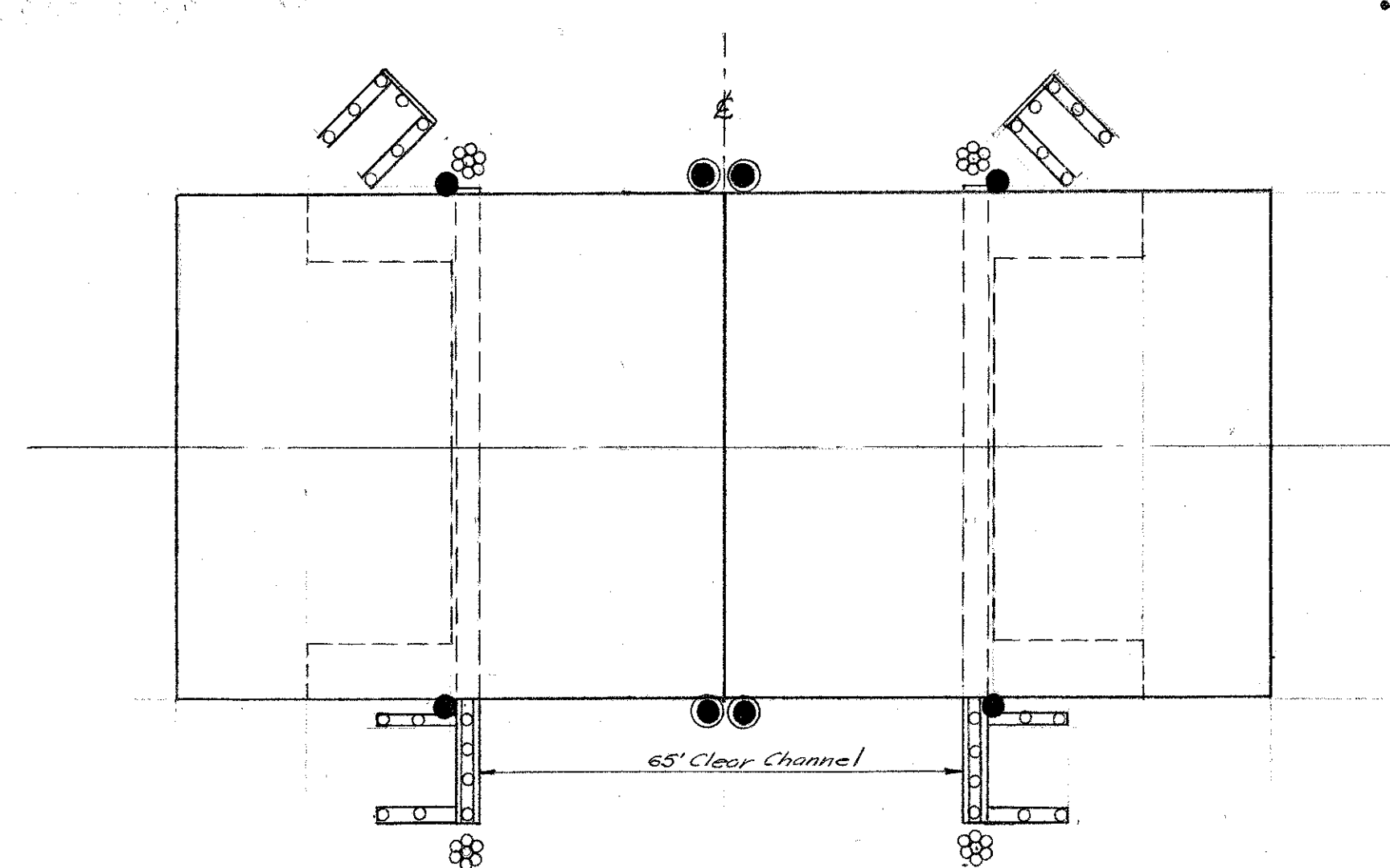


EAST ELEVATION AT RIVER LEVEL

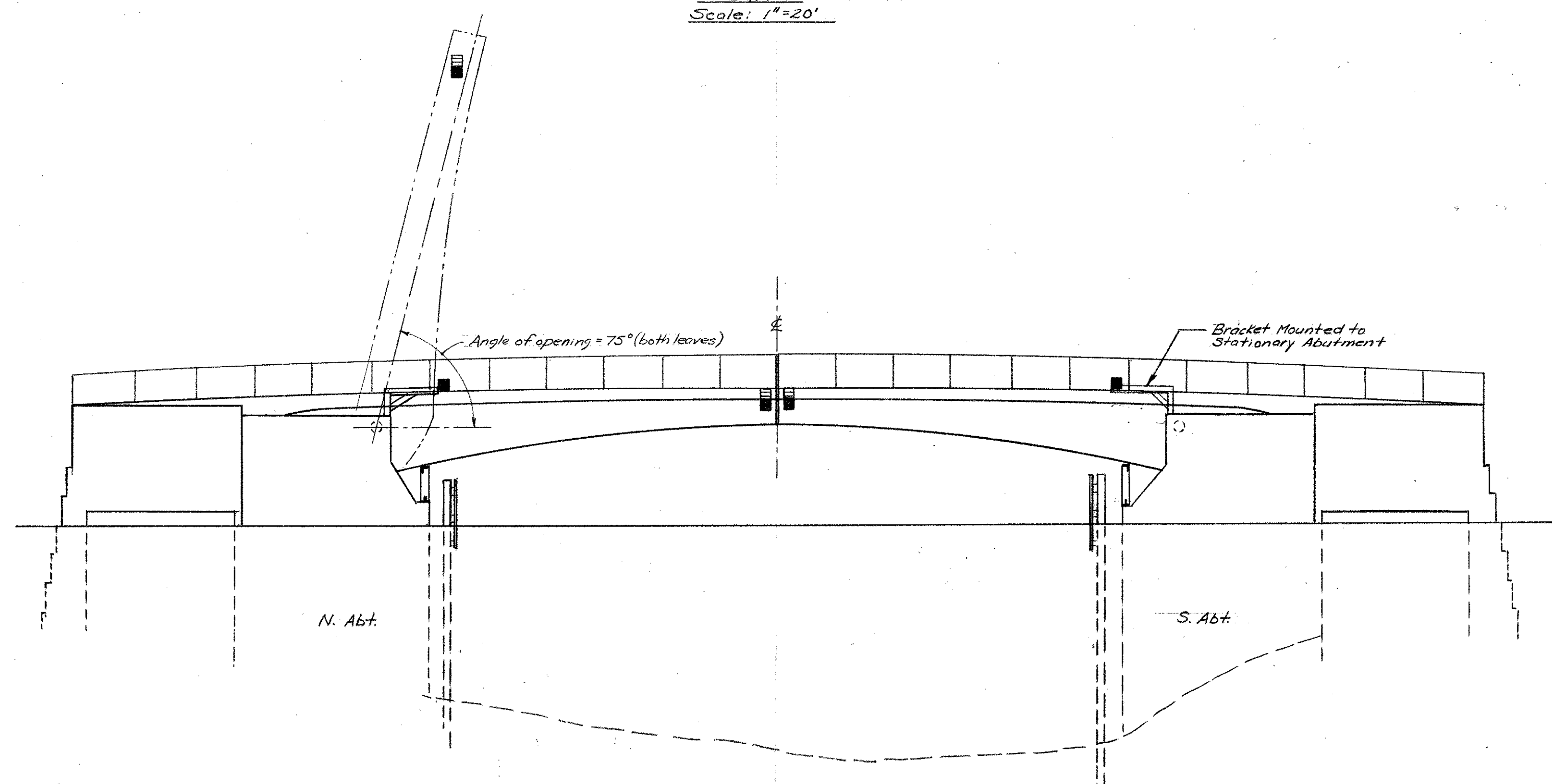
Military Street Bridge

WM

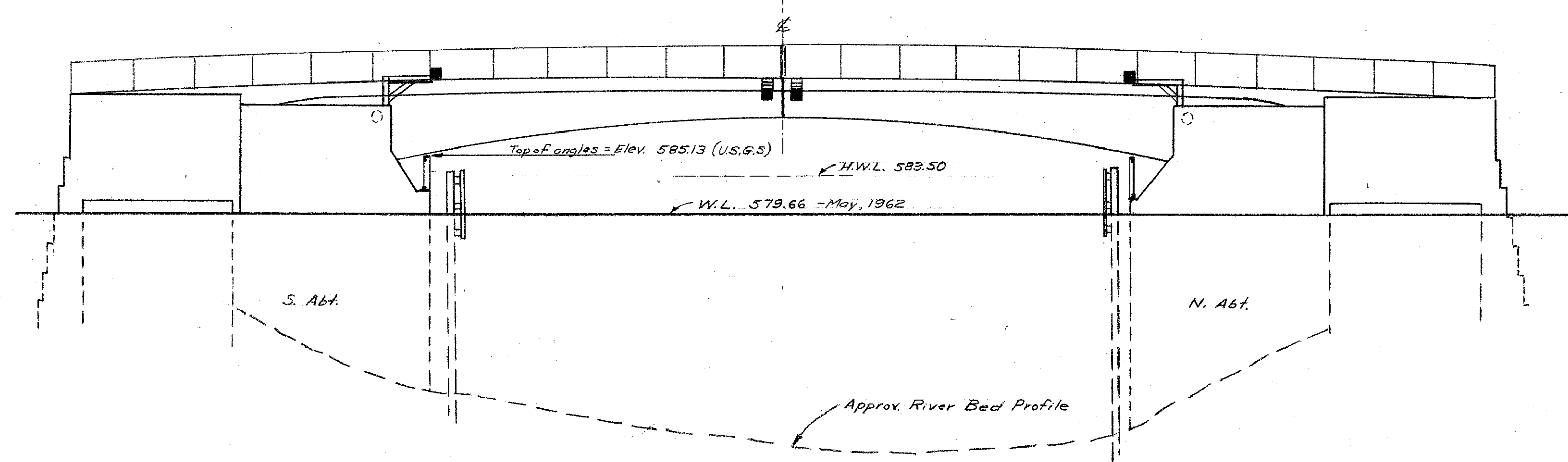
William Vogan
Architects
Architects / Planners
P.O. Box 610823
520 Bard Street
Port Huron, Michigan
48061-0823
(313) 985-3511



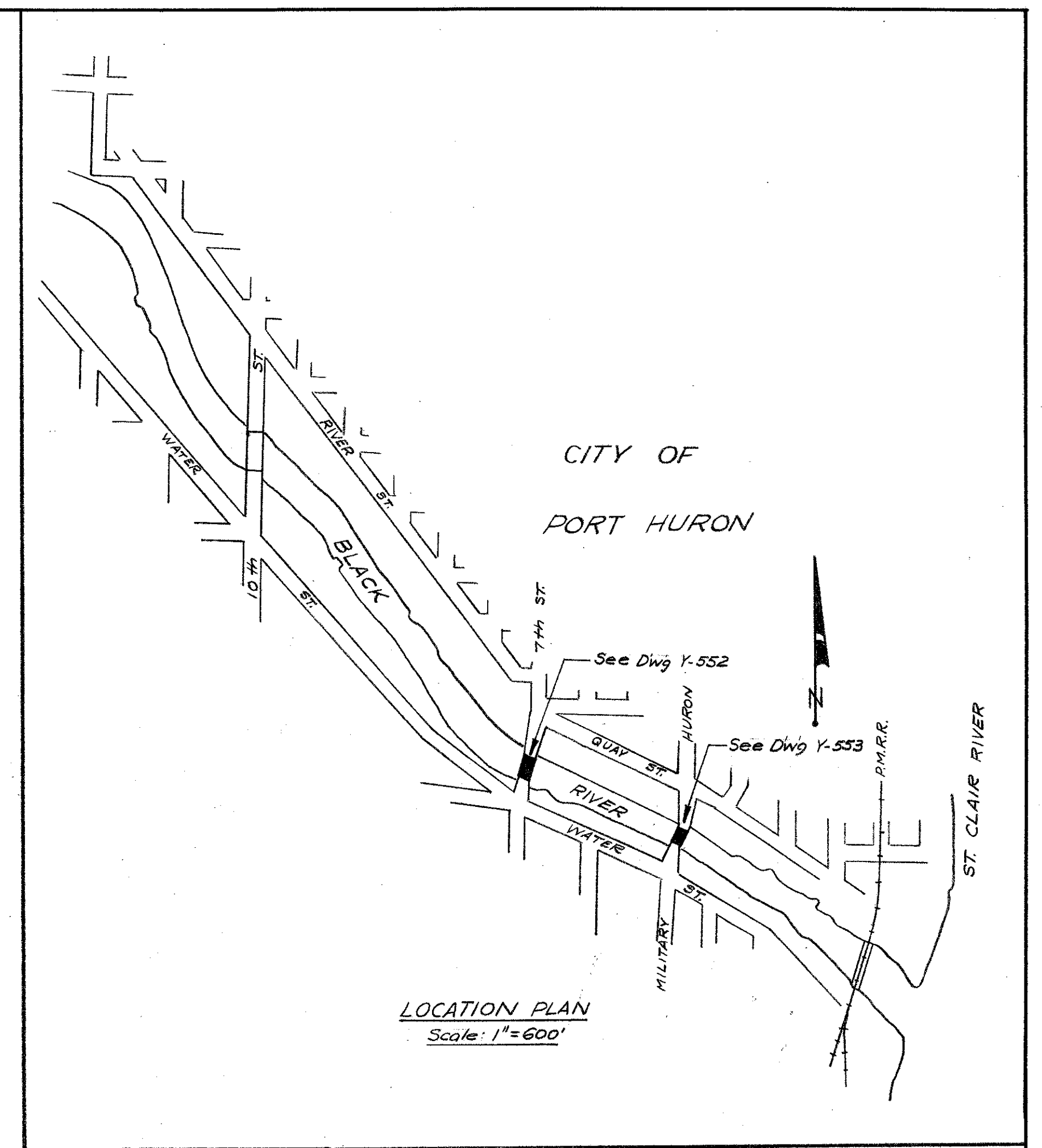
PLAN
Scale: 1"=20'



WEST ELEVATION
Scale: 1"=10'



EAST ELEVATION
Scale: 1"=10'



- ■ Red Bridge Light - 180° Fresnellens - Bkt Mtg.
- ■ Lift Span Light - 180° Fresnel Lens
Swing Type Mtg - Red with span down.
Green with span up.

CITY OF PORT HURON MICHIGAN		
CALVIN M. LAKIN - CITY MANAGER ALLAN T. CARLISLE - CITY ENGINEER		
MILITARY ST. BRIDGE LIGHTING		
SCALE: AS NOTED	DRAWN BY: G.T. HUMMEL 6/6/62	SHEET 1 OF 1
APPROVED: <i>Allan T. Carlisle</i> ALLAN T. CARLISLE - CITY ENGINEER		