

UNITED STATES STEEL CORPORATION SUBSIDIARY

Description	Mark	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Side Strainers	S.S.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Diaphragms	D	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Brackets	B	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Expansion Joints	E.D.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Roll Posts	R.P.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Strainers	S	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Flood Damms	F.D.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Caution	C.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Diaphragms	D	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Bottom Shoe	B.S.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Pin	P.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Swivel Bolt	X.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Tension Bolt	T.B.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Base Plates	B.P.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Canvas Decks	C.D.	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				

Description

Mark 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

INDEX TO MARKS

DATE 9/29 1948	DRAWINGS A.M.B. M. FABRICATION ELMIRA	Hughes - 259 ORDER NO. J5760	SHEET NO. K101
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NAME OF STRUCTURE

AUGUSTA BRIDGE OVER THE KENEBEC RIVER IN THE CITY OF AUGUSTA -
 KENEBEC COUNTY STATE HIGHWAY COMMISSION.

51-156

D73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS					GRIP	CALCULATED WEIGHT TOTAL	SHIPMENT
						LENGTH UNDER HEAD	HEAD	NUT	WASHER	TYPE OF BOLT			
1													
2	60	75	7/8	2 1/2									43
3	162	190	"	2 3/8									112
4	98	105	"	2 1/2									65
5	34	45	"	2 5/8									29
6	60	75	"	2 3/8									56
7	12	17	"	2 5/8									12
8	35	50	"	3									35
9	8	12	"	3 1/2									9
10	32	45	"	3 1/2									23
11													318
12													
13													
14	6	9	7/8	2 1/2	HEX	HEX							7
15	37	45	"	2 1/2	"	"							39
16	64	70	"	2 3/4	"	"							63
17	54	60	"	3	"	"							56
18	4	7	"	3 1/2	"	"							7
19	4	7	"	3 1/2	"	"							7
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FIELD RIVETS AND BOLTS

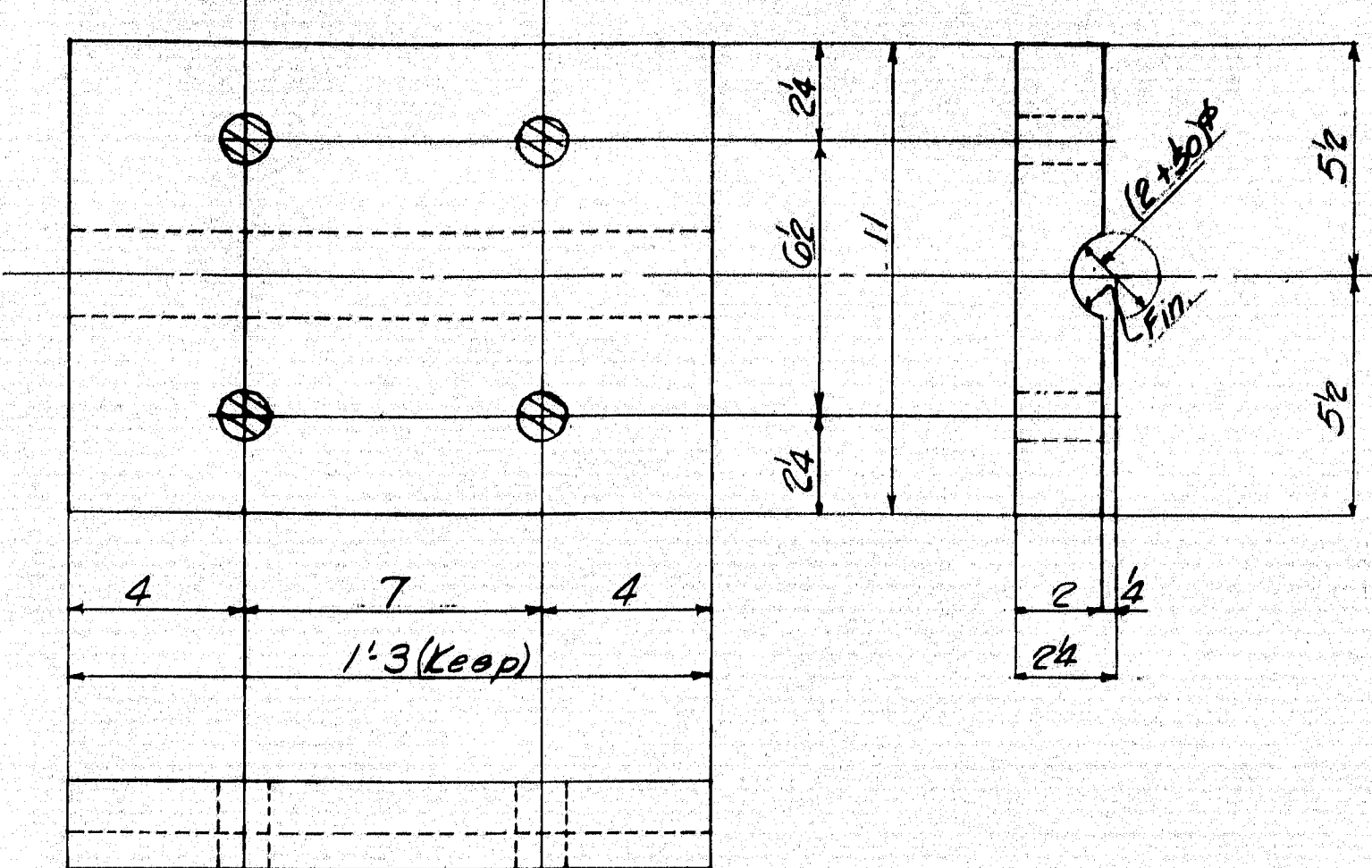
DATE	NAME	DATE	NAME
1-27-45			

DRAWINGS AMB. #1 FABRICATION ELMIRA	HUGHES ORDER NO. J-5760
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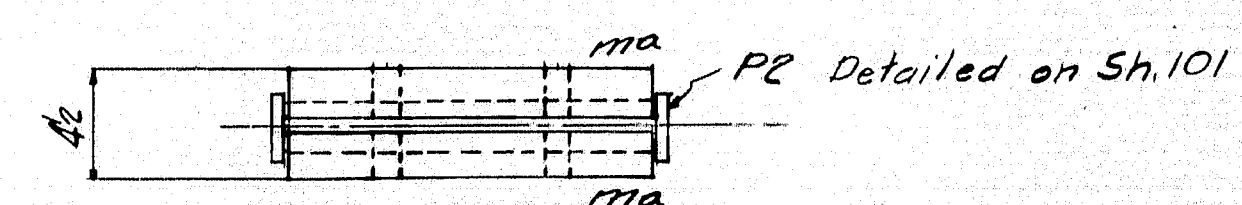
STATE OF MAINE - STATE HIGHWAY COMMISSION- BRIDGE OVER KENNEBEC RIVER

5196 PROJECT F1,U1-389(2)

RT1- 1/2" Holes
for Turned Bolts



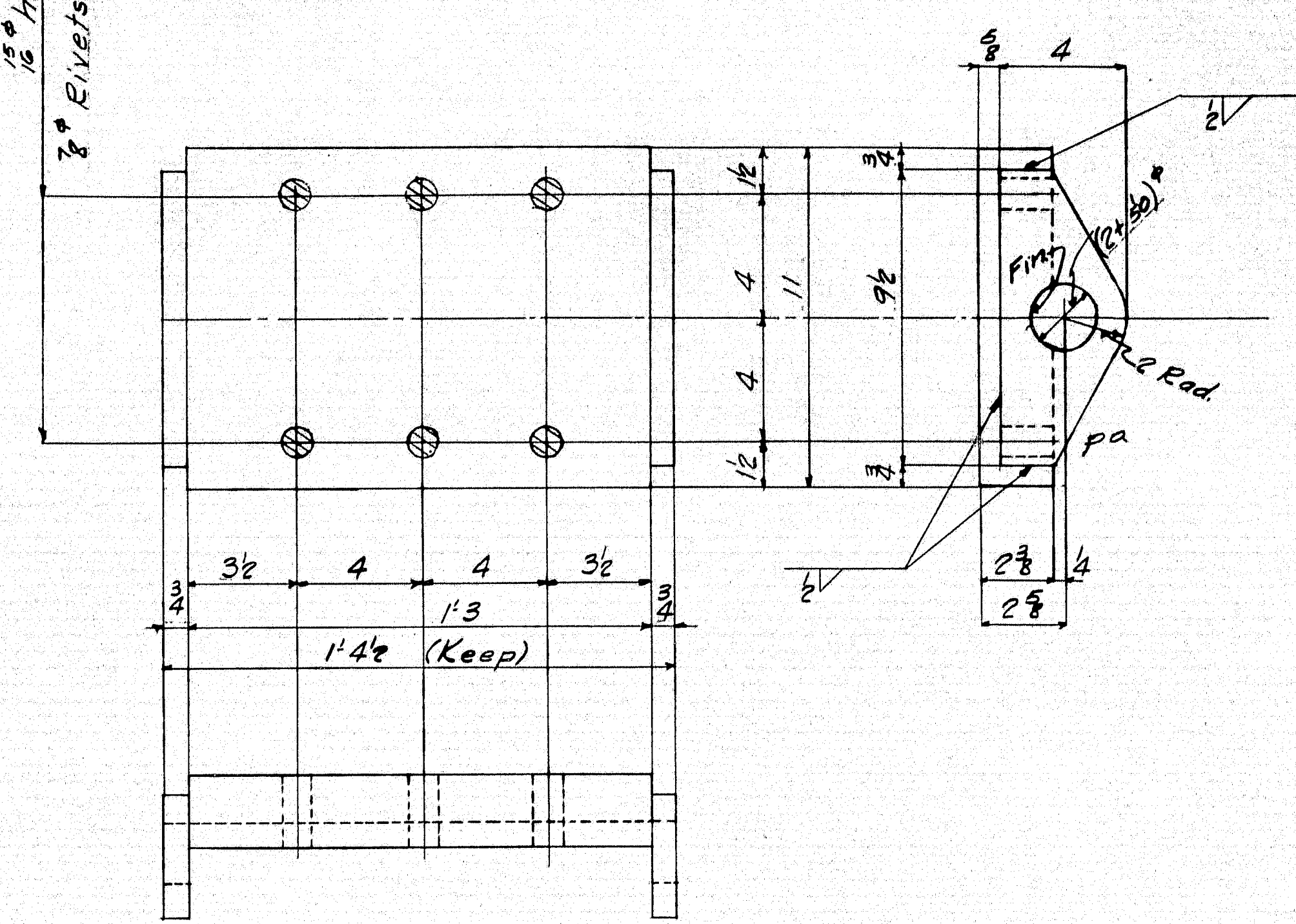
Cap Plate - ma
To be assembled with Col. C1 Detailed on Sh. 102
and Floor Beam FB1 Detailed on Sh. 104



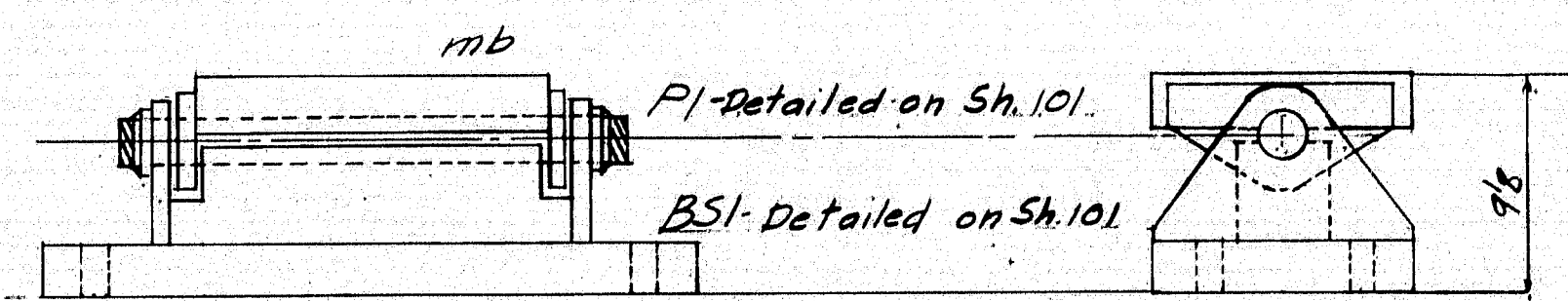
Cap Assembly

Cap to be assembled
in shop for proper fit.

1/2" Holes for
3" Ribs



Sole Plate - mb
To be assembled with Col. C1 detailed on Sh. 102



Pedestal Assembly

Pedestal to be assembled
in shop for proper fit

Note:
All R's to be straight & true
All pins and pin holes to have a coat
of white lead and follow.
Holes - as noted

PANTS No
SHOP CONTACT SURFACES No

REVISIONS
F
E
D
C
B
A

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

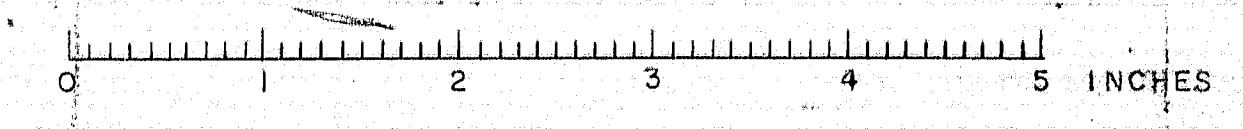
DRAWINGS MADE AT Amb #1 PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes 259
DRAW. MADE BY LEH DATE 9-7-48
DRAW. CHECKED BY FM DATE 12/16/48

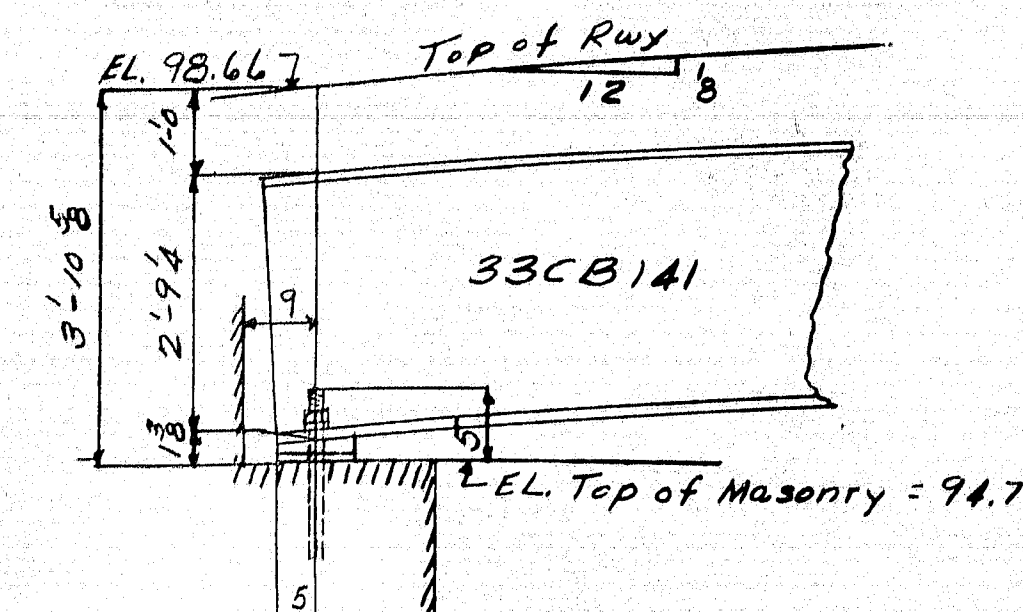
ORDER No. J5760 SHEET No. P101

Welding

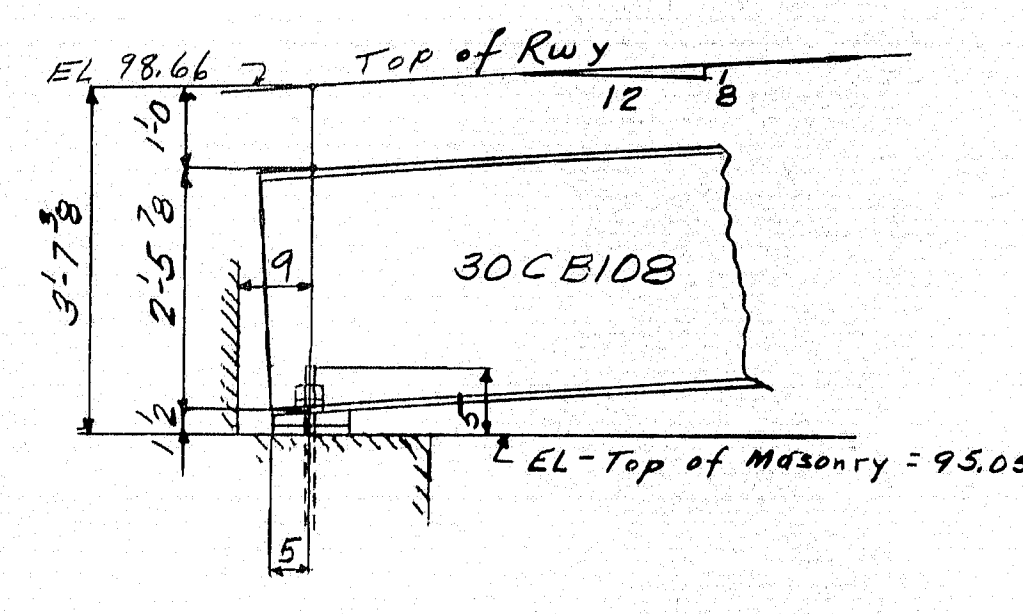
Mr. 911

51-157

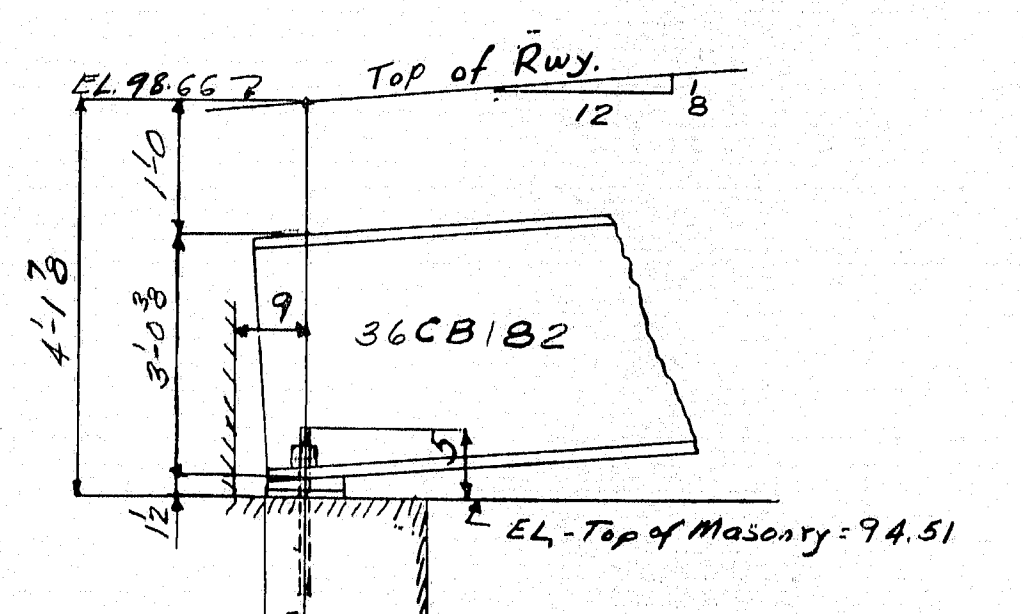




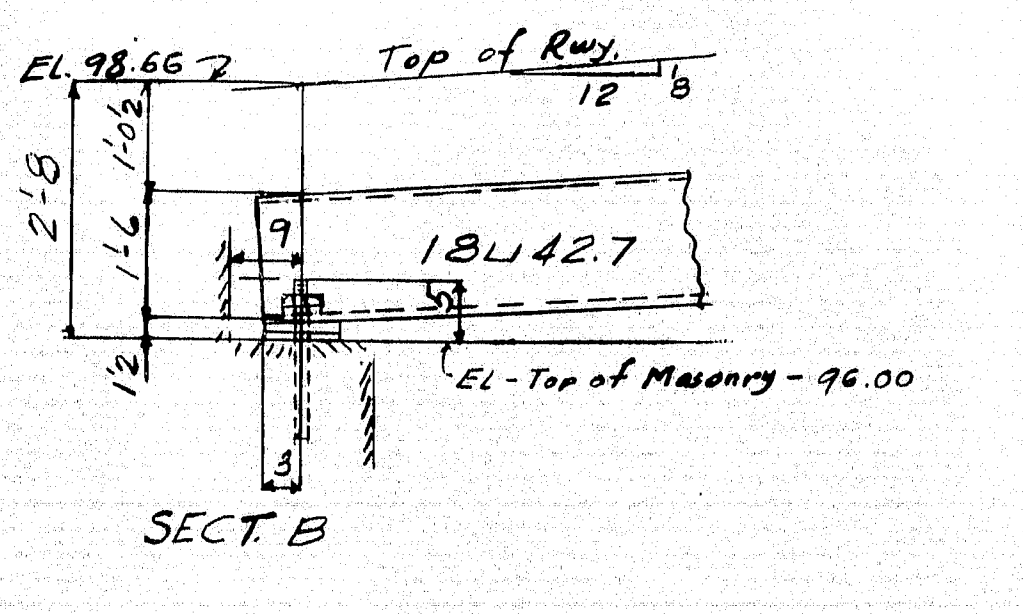
SECT. D



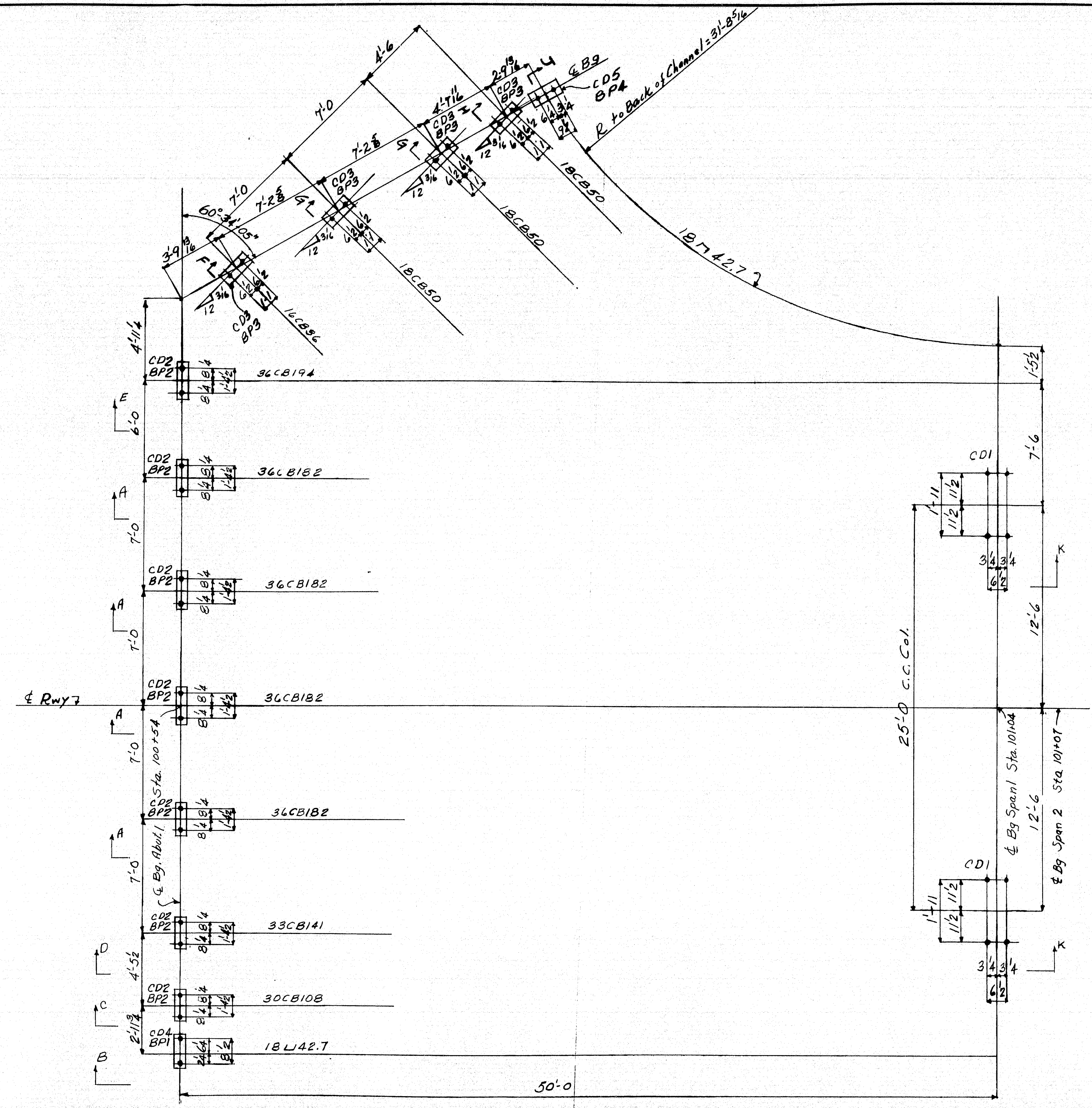
SECT. C



SECT. A

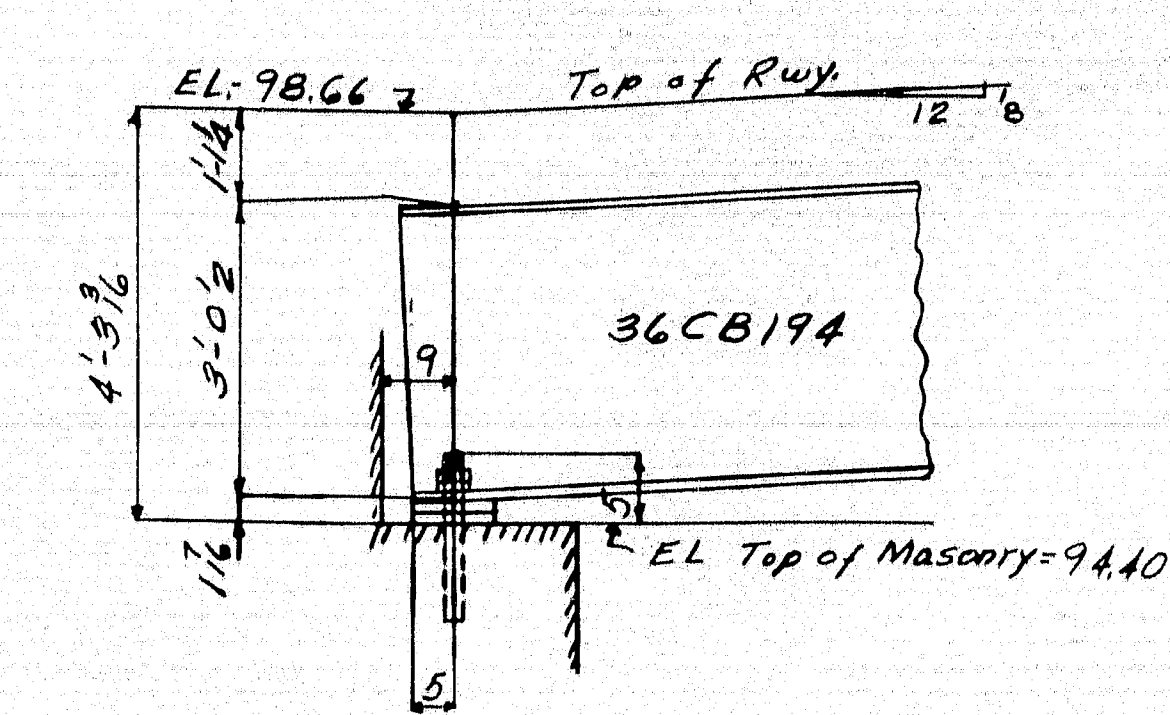


SECT. B

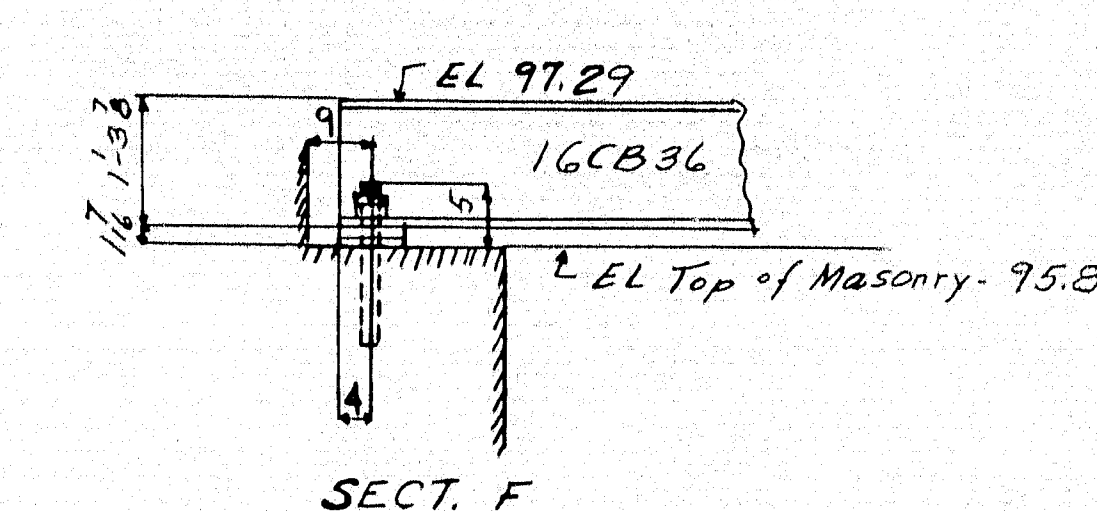


ANCHOR BOLT PLAN - SPAN 1

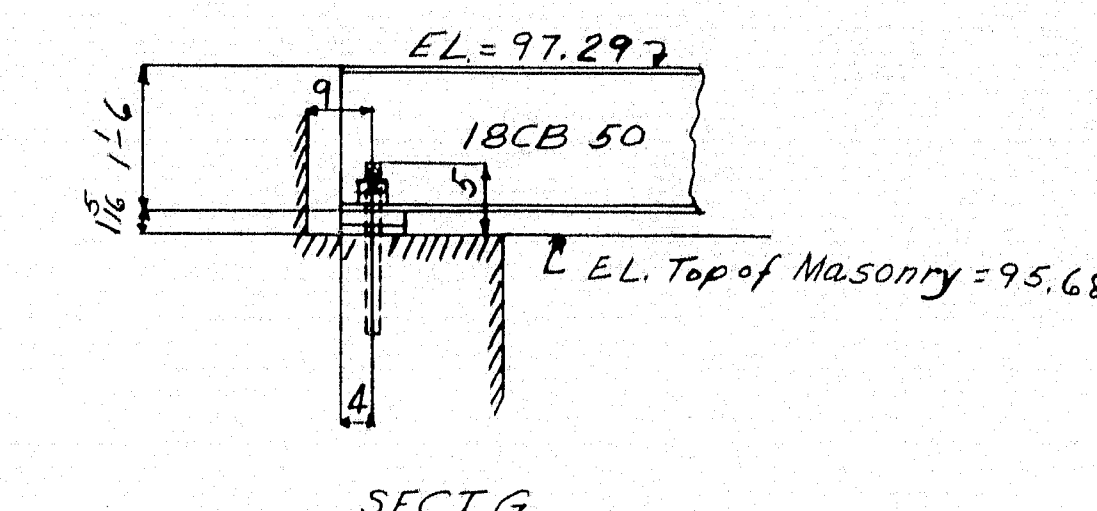
All Anchors to be 1" x 15 long Swedge Bolts - Mark XL.
Holes in Base Plates to be 1 3/8" for 1" Anchors.



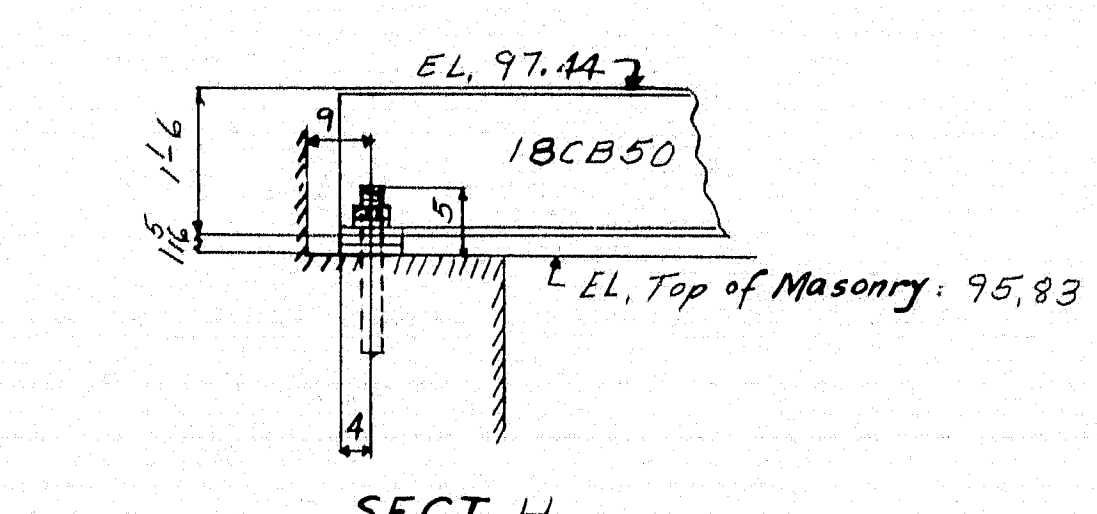
SECT. E



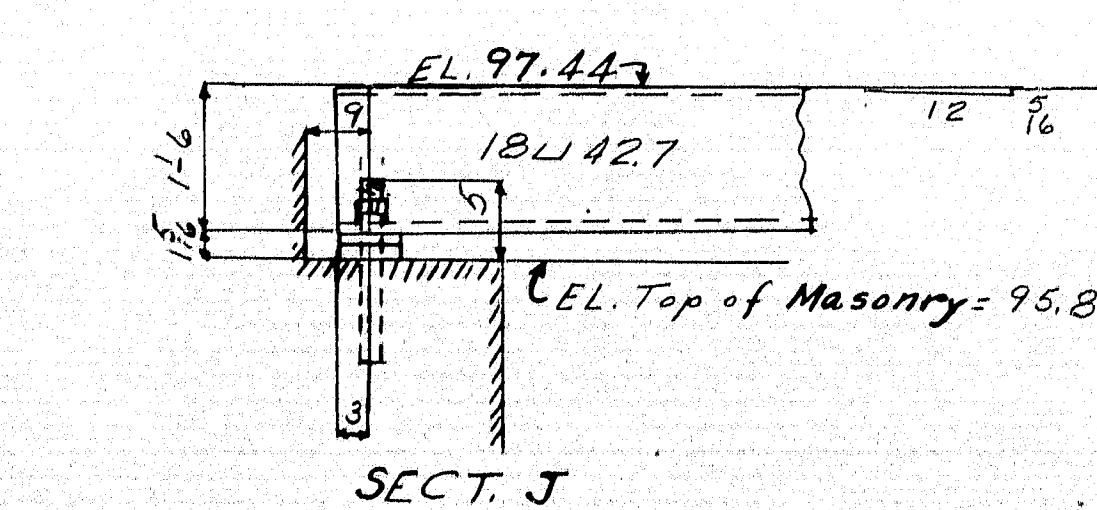
SECT. F



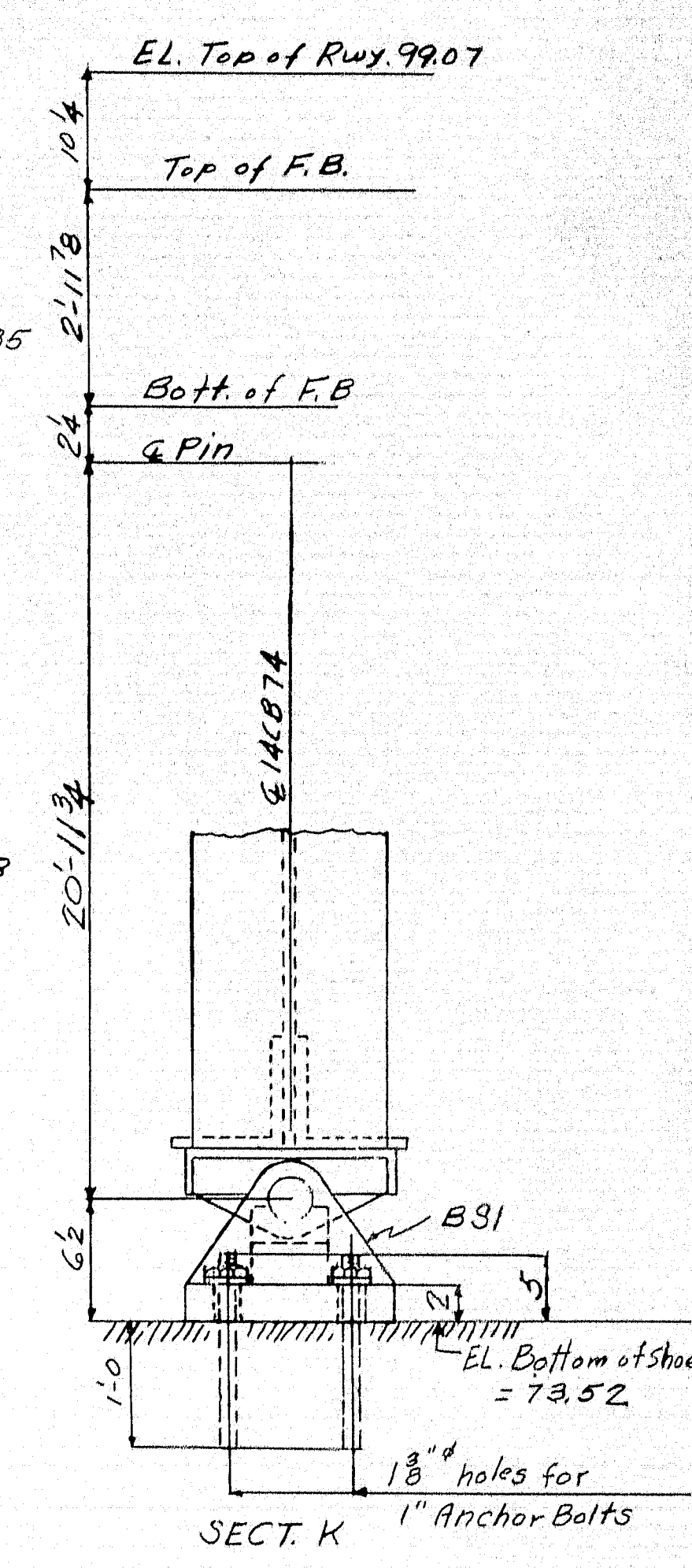
SECT. G



SECT. H



SECT. J



SECT. K

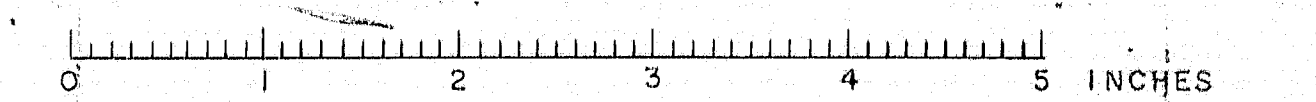
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

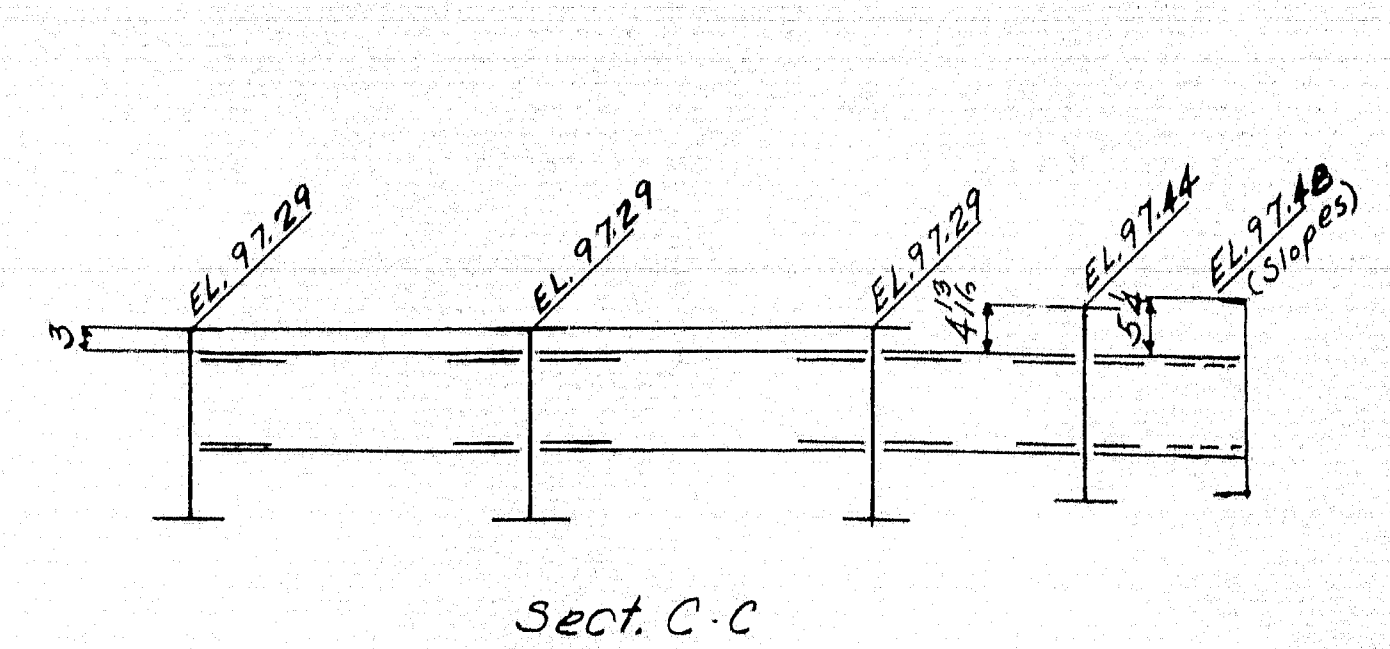
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

F	WORK FABRICATED AT	ELMIRA	PLANT
E	IN CHARGE OF	HUGHES	259
D	DRAWN BY	MH	DATE 9-9-48
C	DRAW. CHECKED BY	FH	DATE 10/5/48
B	ORDER No.	J5760	SHEET No.
A			E1

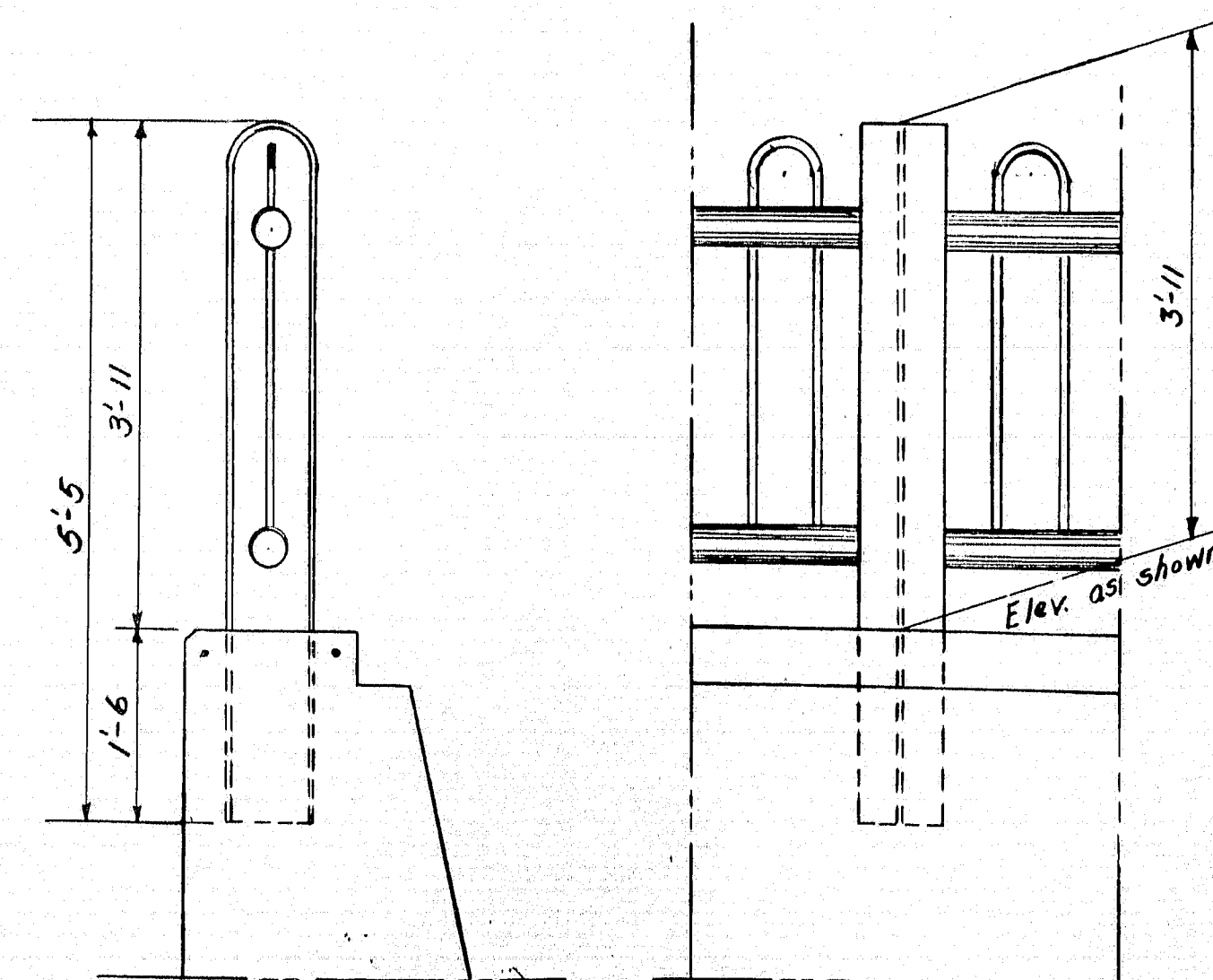
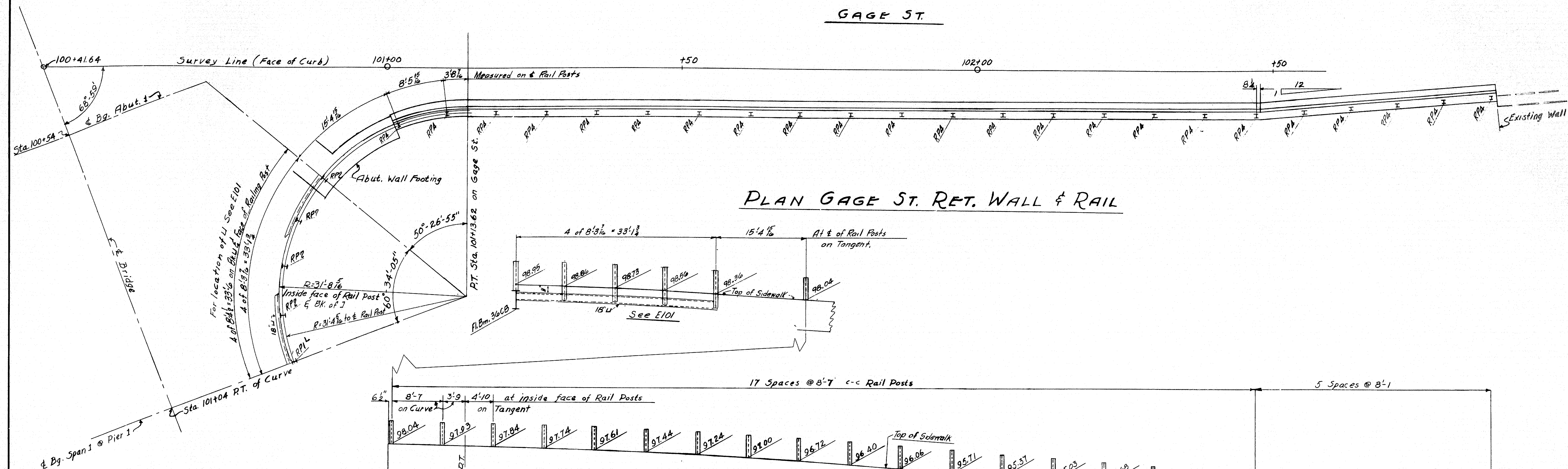
REVISIONS

My. 88 57-15B



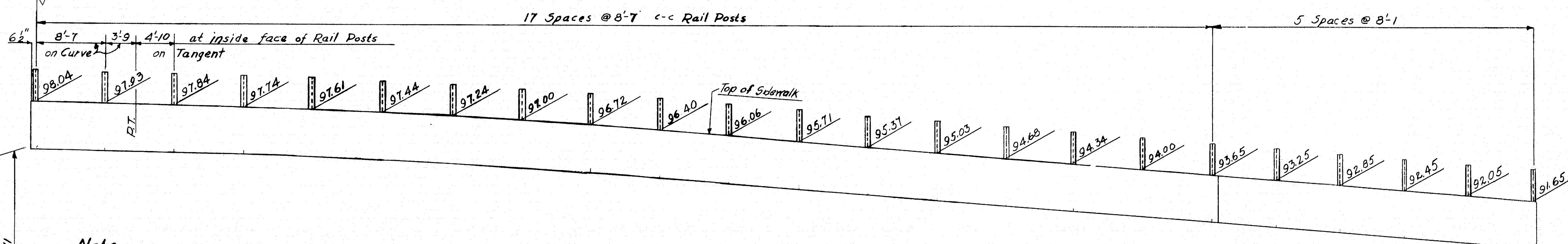


PAINT:
SHOP CONTACT SURFACES:



Note:~ The Posts and Pales are to be vertical and the Posts are to be normal to the curve or tangent shown in Plan View.
The construction of the concrete retaining wall and the erection of the rail and posts shall be done by the Bridge Floor Contractor.

RAIL ELEVATION



State of Maine
Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project FI, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

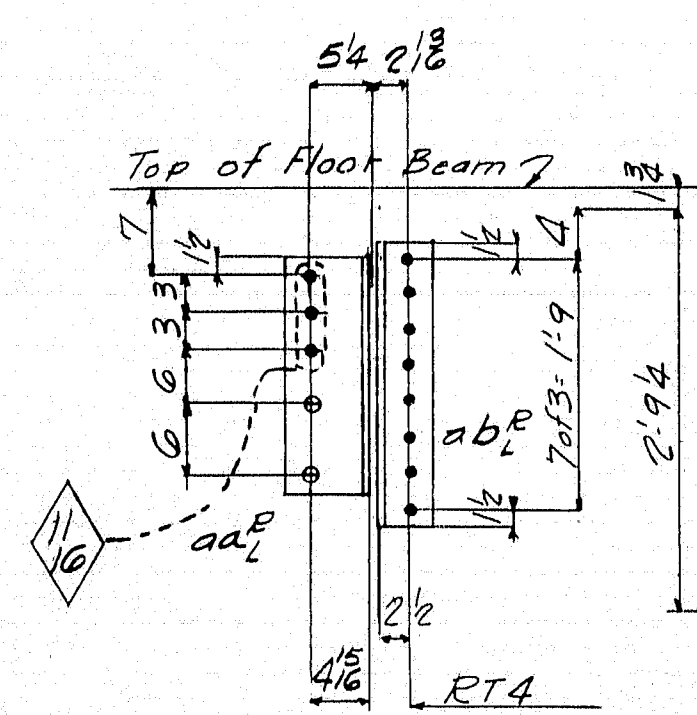
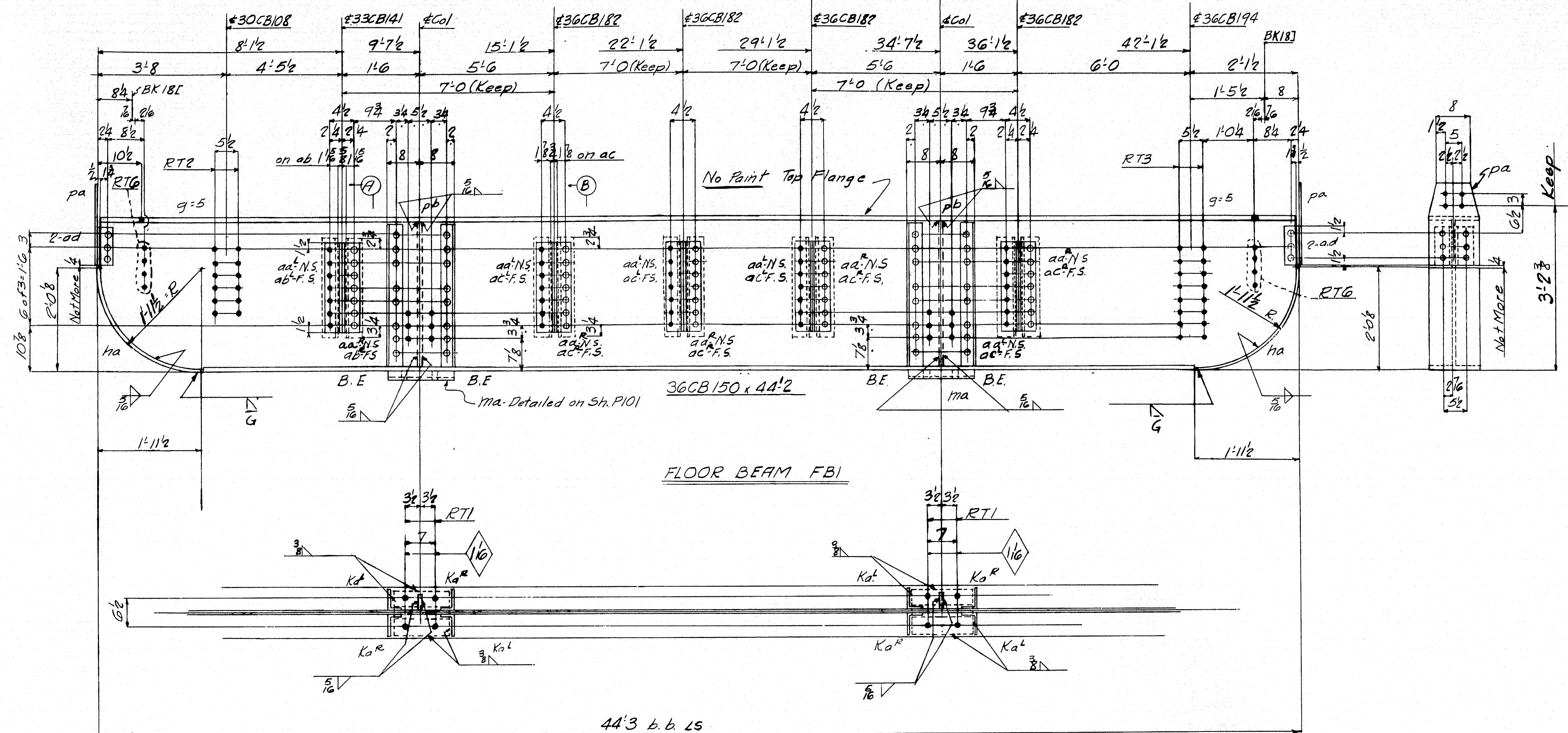
DRAWINGS MADE AT AMB #1 PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF HUGHES-259
DRAW. MADE BY M.H. DATE 9-31-48
DRAW. CHECKED BY E.M. DATE 10/6/48

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X	REVISIONS

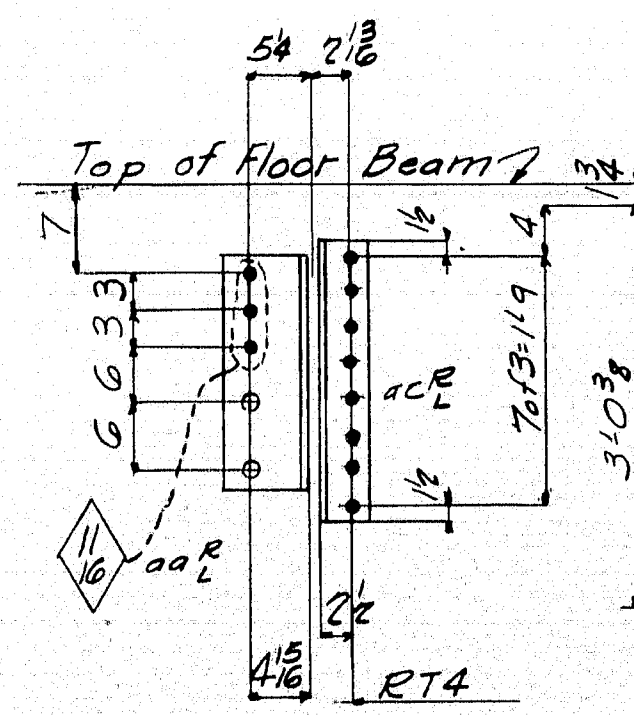
ORDER No. J5760 SHEET No. E103

51-161

0 1 2 3 4 5 INCHES



Section A



Section B

Note:
Holes marked RT to be punched 4" small and reamed to size to a metal template.
All main material over 3/4" thick to be punched 4" small & reamed to size or drilled from the solid

Rivets 7/8
Holes 1/2 Unless Noted

PAINT: Yes, except as noted
SHOP CONTACT SURFACES: No

REVISIONS	DATE	BY	REMARKS
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FLOOR BEAM FBI

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

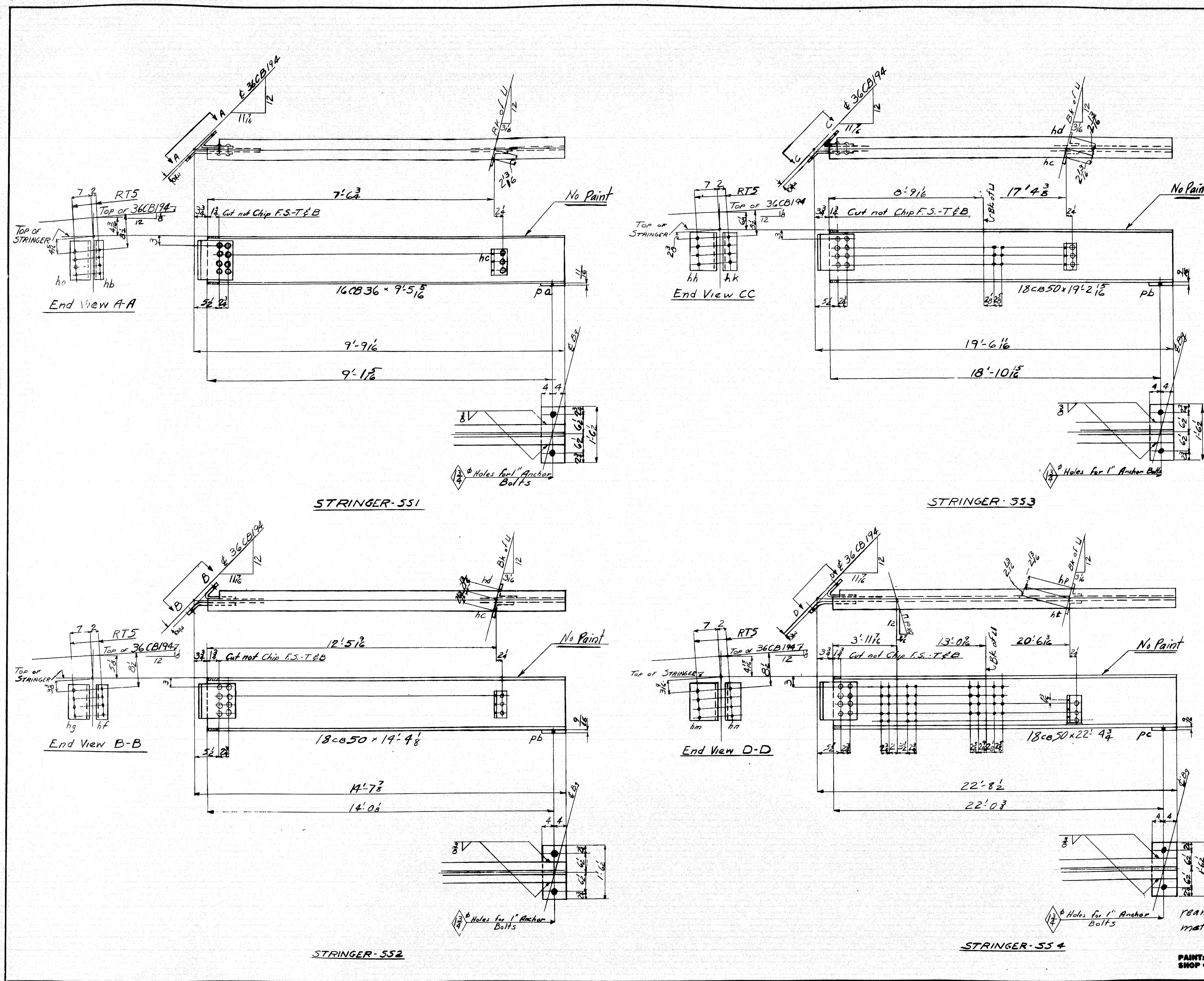
DRAWINGS MADE AT Elmira #1 PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes 259
DRAW. MADE BY LEH DATE 7-15-48
DRAW. CHECKED BY Jm DATE 11/17/48

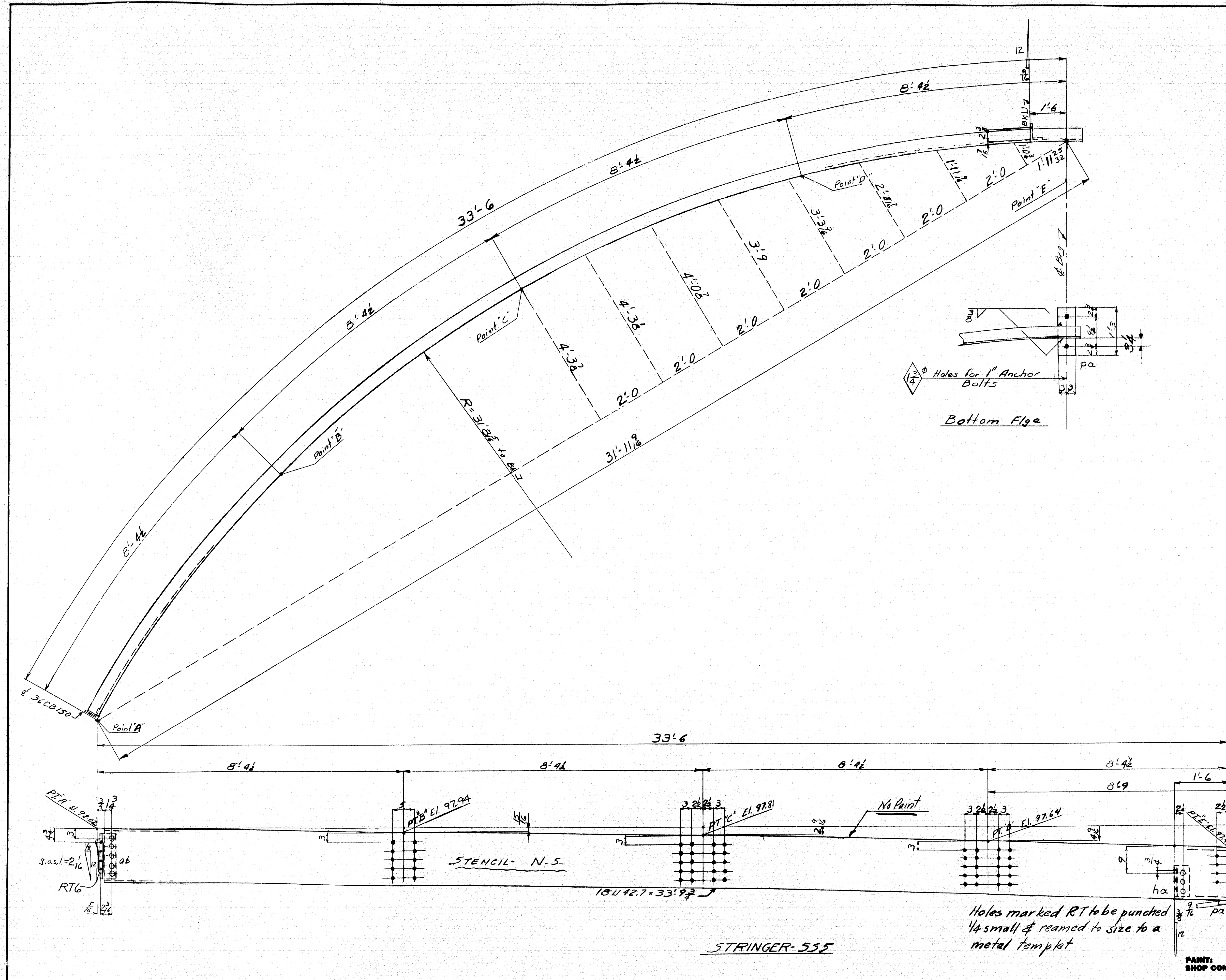
ORDER No. J5700 SHEET No. 104

Welding

Att. B11 103

51-165





LINE	NO. OF PIECES	MATERIAL	ASSEMBLY MARK	REMARKS	ORDERED	CALCULATED WEIGHT FOR ONE PIECE
1						
2		ONE STRINGER	SSS			
3						
4	1	10 L 42.7	33'9 3/4"	SSS	34'9 3/4"	12
5	1	L 4 3/2"	9 3/4"	HO		5
6	1	L 4 3/2"	1 3/4"	ab		5
7	1	R 6 6	1 3/4"	pa	bevel fin 1 3/4"	5
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State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Ambridge PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes M1 EX 259
DRAW. MADE BY TH DATE 9/17/48
DRAW. CHECKED BY JM DATE 11/23/48

ORDER NO. J5760 SHEET NO. 106

Mt. Bill

51-167

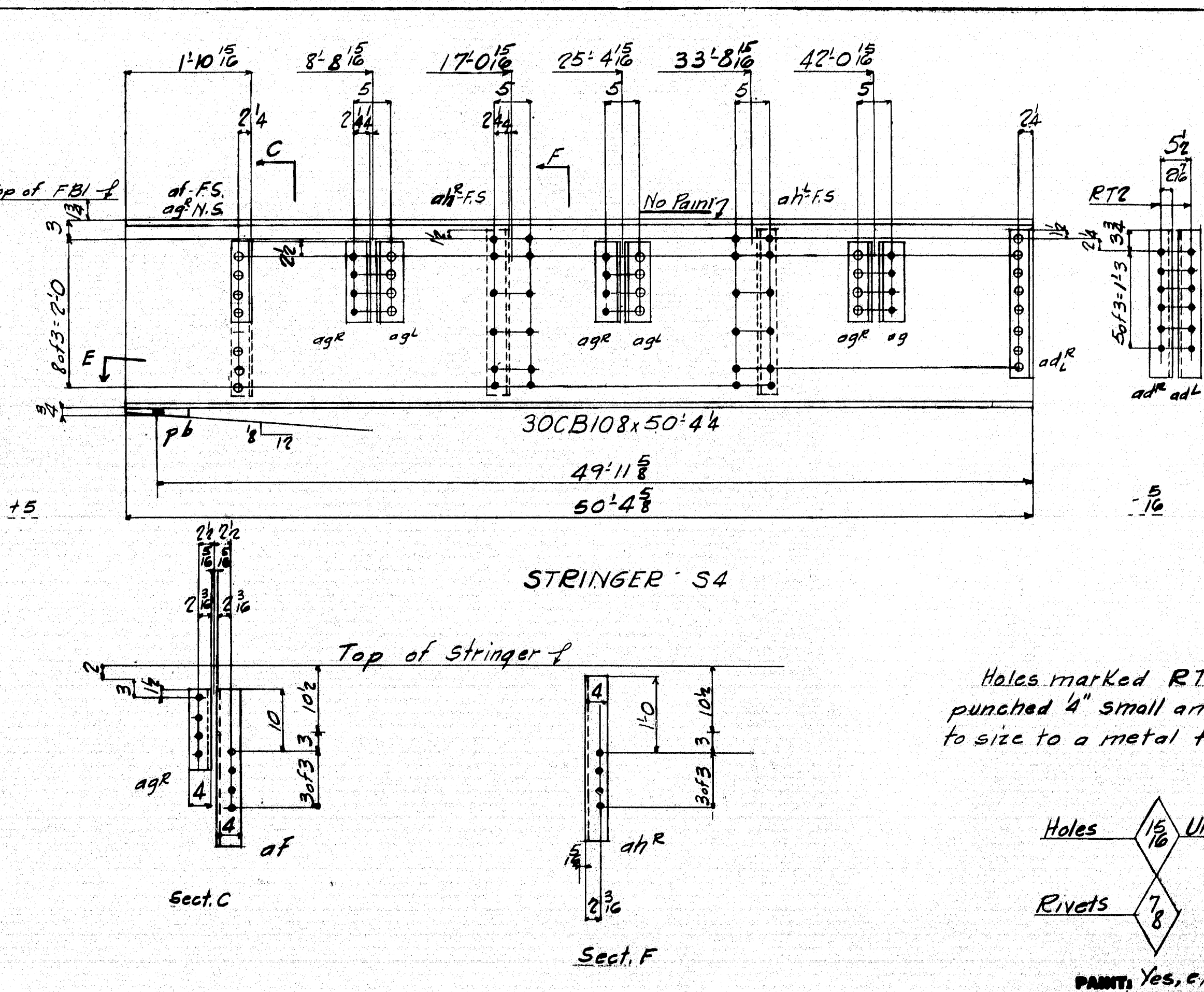
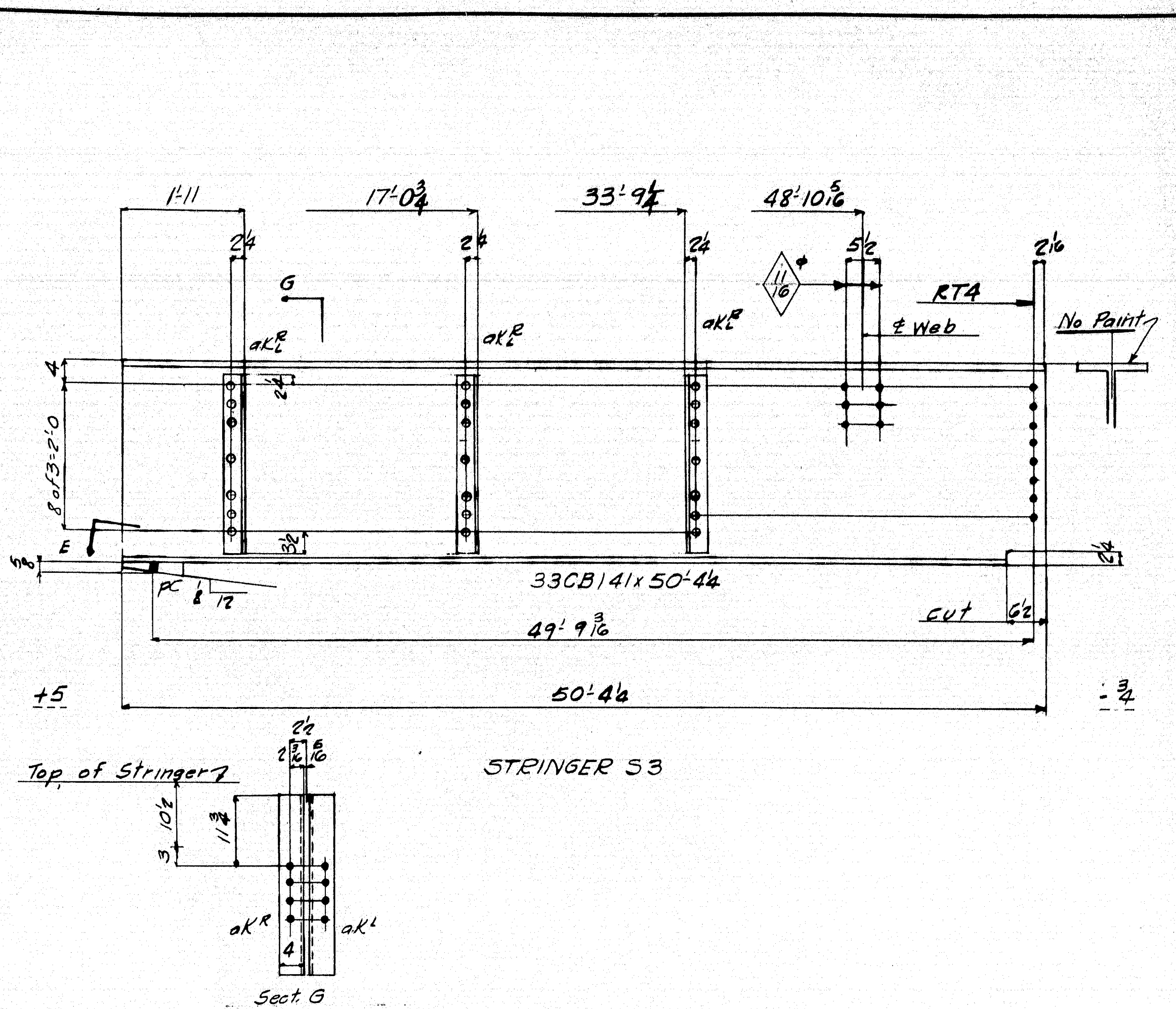
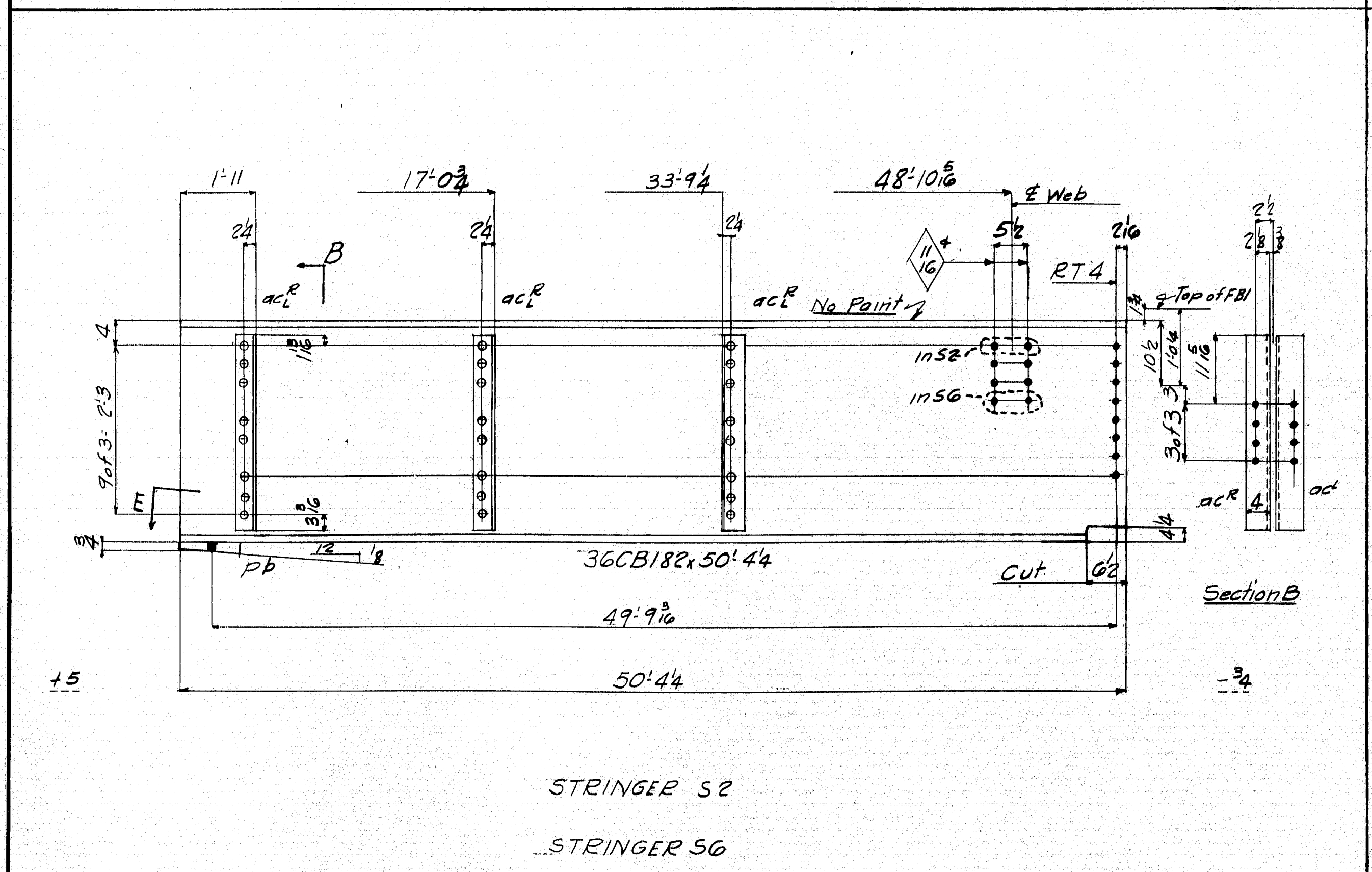
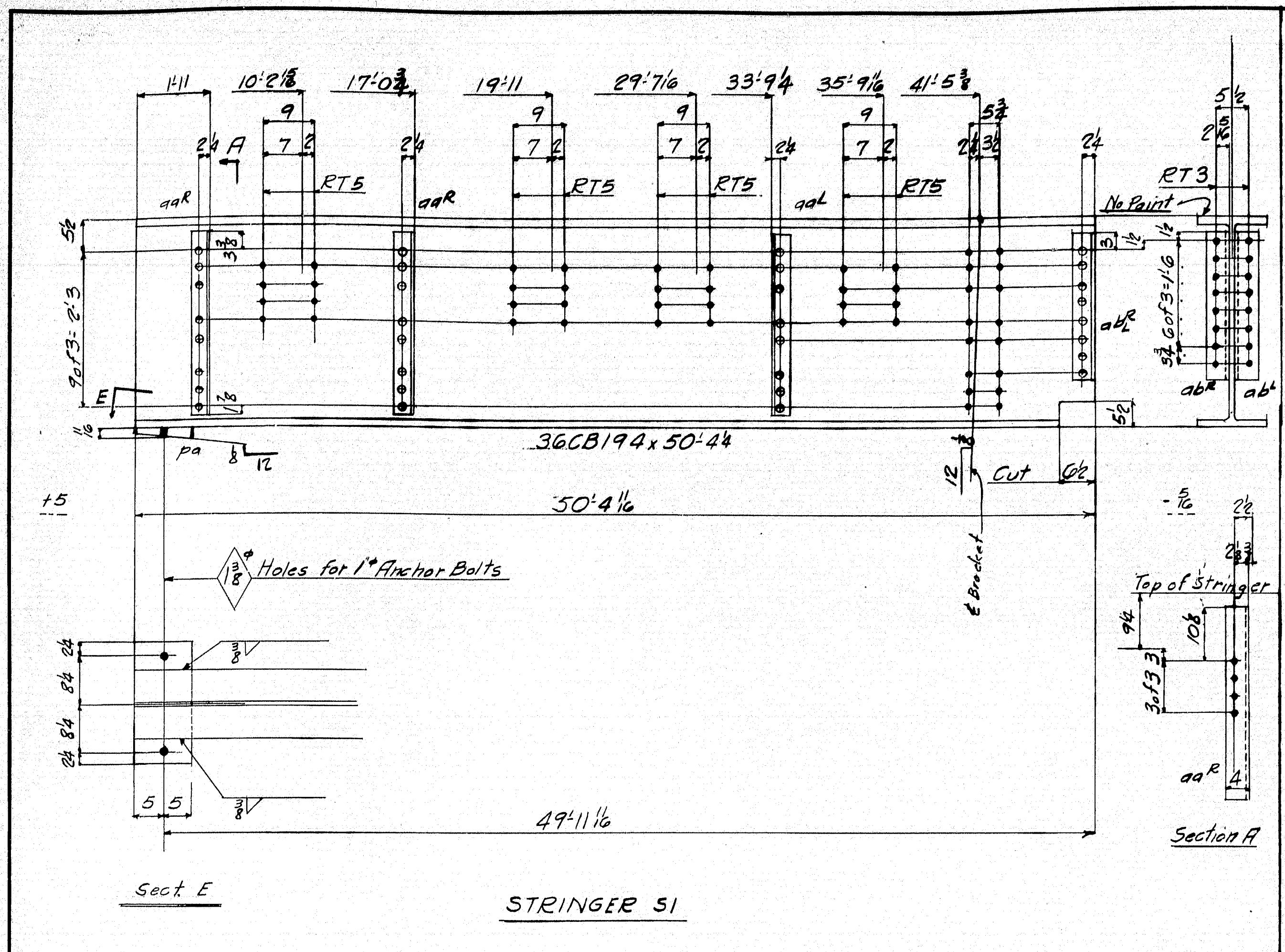
PANT: Yes-except as noted
SHOP CONTACT SURFACES: No

F	
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B	
A	
REVISIONS	

Holes marked RT to be punched
1/4 small & reamed to size to a
metal templet

Rivets 3/4"
Holes 1/8" unless
noted
spacing not
given 3" on centers

0 1 2 3 4 5 INCHES



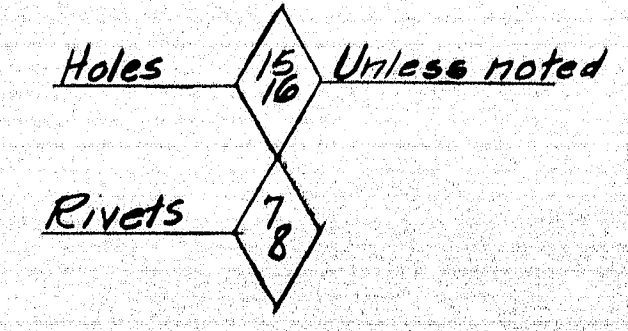
LINE	NO. OF PIECES	MATERIAL	LENGTH Feet	INCHES	ASSEMBLY MARK	REMARKS	ORDERED ITEM	QUANTITY
1	ONE	STRINGER	50	4 1/2	S1			
2	1	36CB194	50	4 1/2			50'4 1/2	1
3	3	L 4 3/2 3/8	2	8 1/2	aaR	7/8"		5
4	2	L 4 3/2 1/2	2	1 1/2	aaR			5
5	1	R 10 3/4 1/2	1	9	pa	Beveled		5
6	ONE	STRINGER	50	4 1/2	S2			
7	3	STRINGERS	50	4 1/2			50'4 1/2	2
8	4	36CB182	50	4 1/2				5
9	24	L 4 3/2 3/8	2	5 1/2	acR			5
10	4	R 10 3/4 1/2	1	9	pb	Beveled		5
11	ONE	STRINGER	50	4 1/2	S3			
12	1	33CB141	50	4 1/2			50'4 1/2	4
13	24	L 4 3/2 3/8	2	5 1/2	acR			5
14	1	R 10 3/4 1/2	1	9	pc	Beveled		5
15	ONE	STRINGER	50	4 1/2	S4			
16	1	30CB108	50	4 1/2			50'4 1/2	6
17	2	L 4 3/2 1/2	2	0	adR			5
18	1	L 4 3/2 3/8	2	1	af			5
19	7	L 4 3/2 3/8	1	1	af			5
20	2	L 4 3/2 3/8	2	3	ahR			5
21	1	R 10 3/4 1/2	1	9	pb			5
22	10	5/8" x 7/8"						5

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Elmira PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes 259
DRAW. MADE BY LEH DATE 9-23-48
DRAW. CHECKED BY Jm DATE 11/18/48
ORDER No. J5760 SHEET No. 107

Holes marked RT to be punched 1/4" small and reamed to size to a metal template.



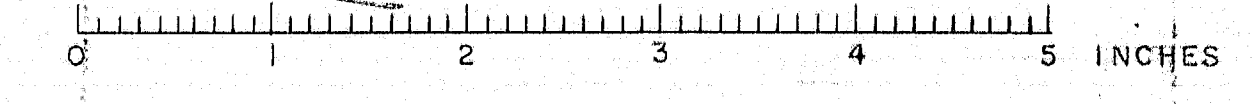
PAINT: Yes, except as noted
SHOP CONTACT SURFACES: No

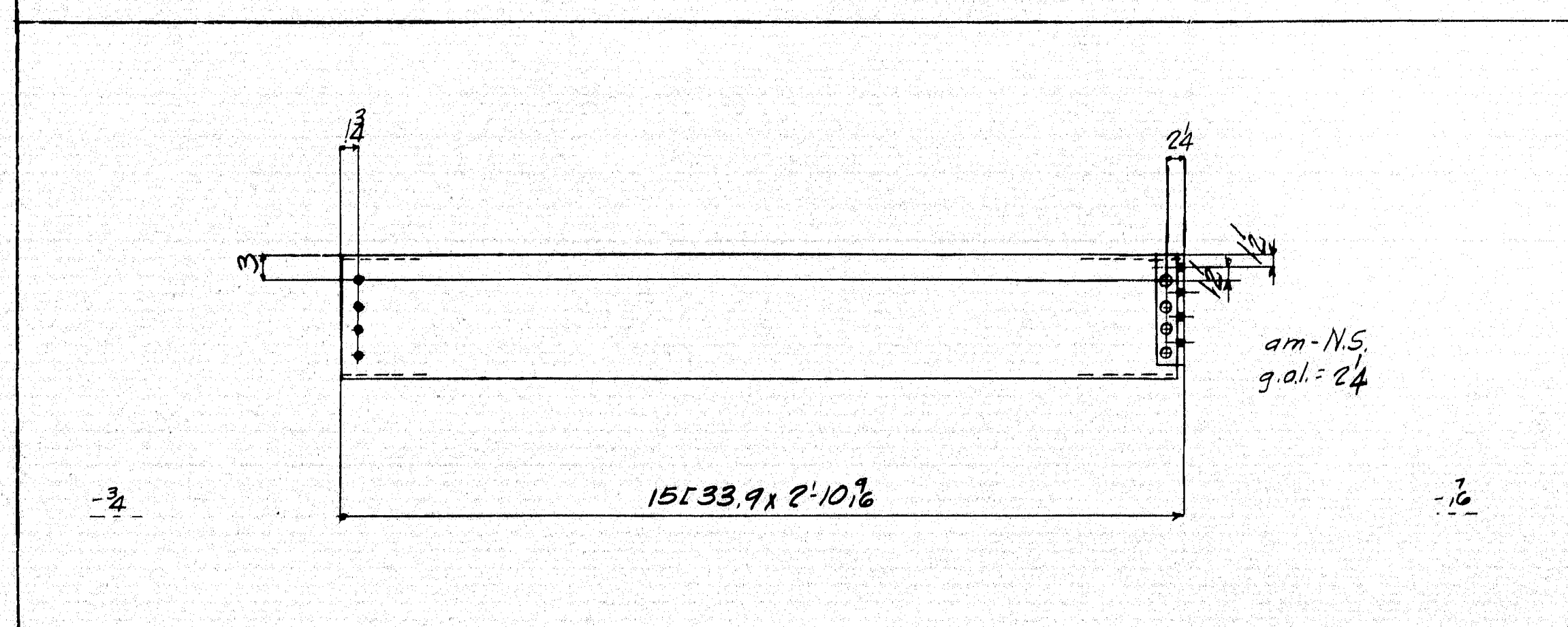
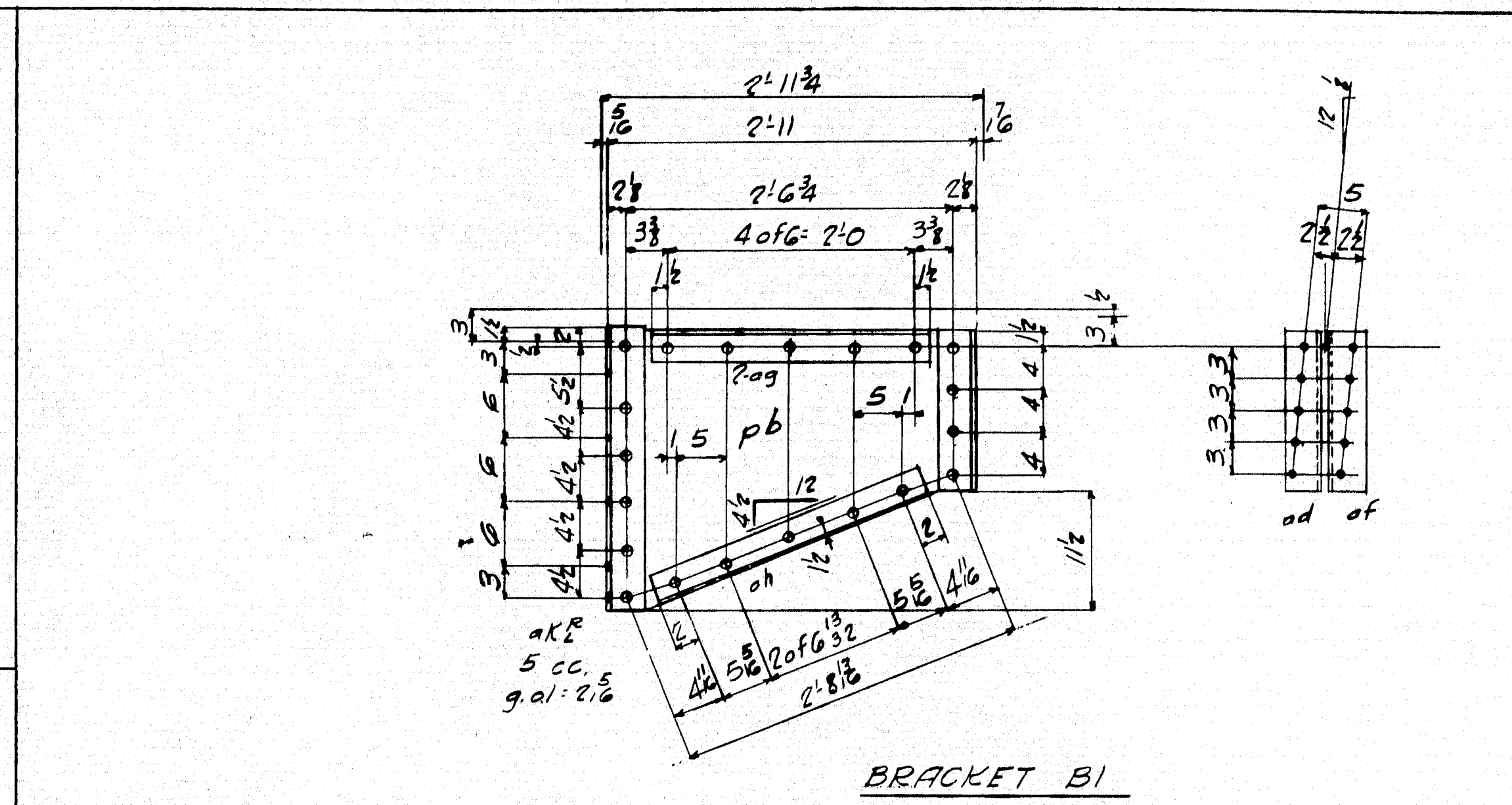
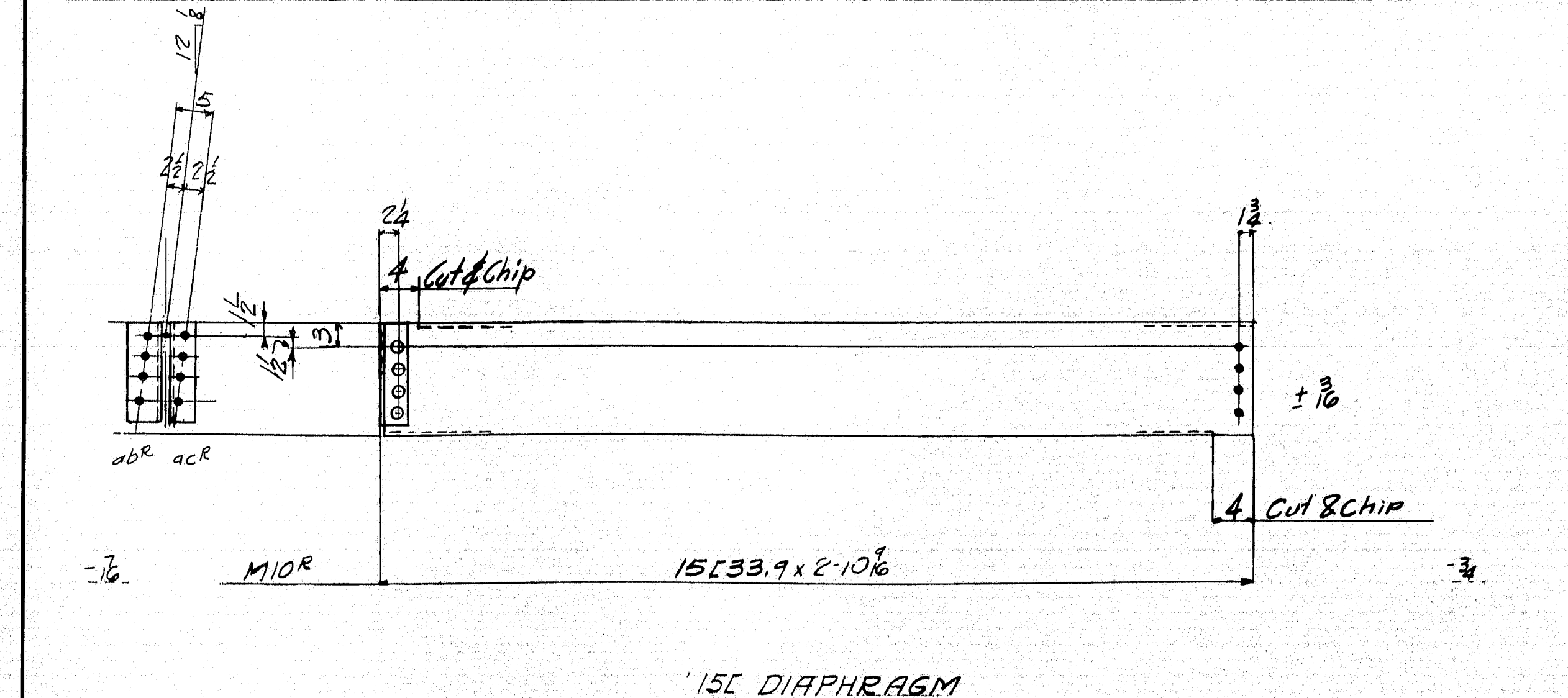
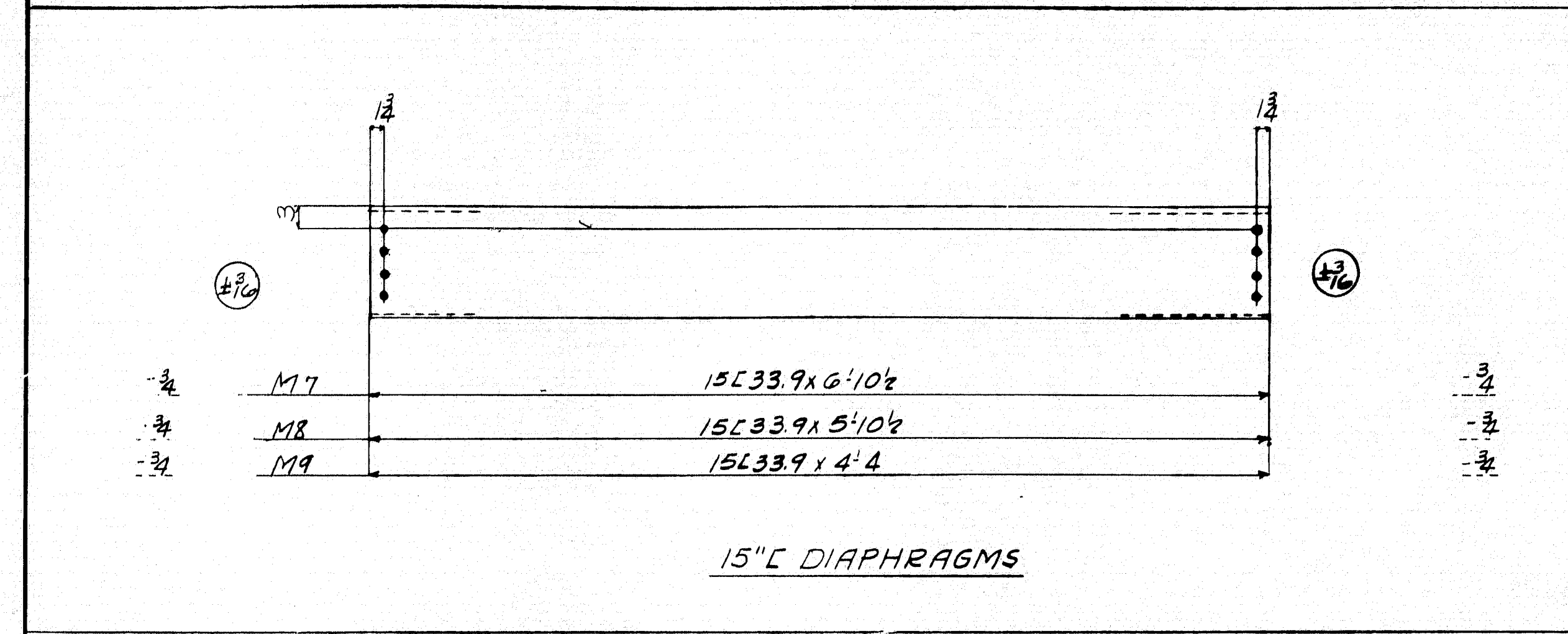
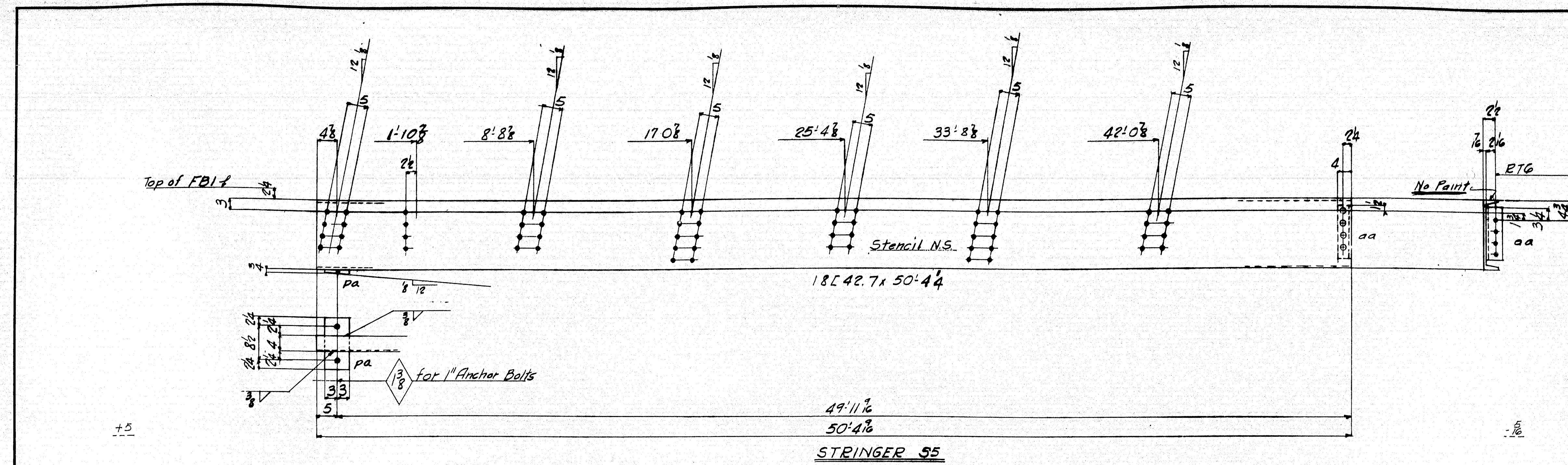
Welding

REVISIONS

103

51-168





LINE	QTY	DESCRIPTION	MATERIAL	LENGTH	THICKNESS	REMARKS	ORDERED	REVISIONS
1	1	ONE STRINGER	SS					
2	1	18L 42.7	50.4 1/2				50.4 1/2	11
3	1	L 4 3/4	1 1/4			aa		5
4	1	R 4 3/4	1 1/4			pa Beveled		5
5	1	15L 33.9	6 10 1/2			M7	6 10 1/2	13
6	3	15L 33.9	5 10 1/2			M8	5 10 1/2	13
7	3	15L 33.9	4 4			M9	4-4	13
8	1	15L 33.9	2 10 1/2			M10	2 10 1/2	13
9	2	15L 33.9	2 10 1/2			M10	2 10 1/2	13
10	3	L 4 3/4	1 1/2			ab 1/2		5
11	3	L 4 3/4	1 1/2			ac 1/2		5
12	2	BRACKETS	B1					
13	2	L 4 3/4	1 3			ad		5
14	2	L 4 3/4	1 3			af		5
15	4	L 3 3/4	2 3			ag		5
16	4	L 3 3/4	2 3 1/2			ah 1/2		5
17	2	R 3 3/4	2 2 1/2			pb	3 3 1/2	5
18	4	L 4 3/4	2 3			ak 1/2		5
19	ONE	DIAPHRAGM	M11					
20	1	15L 33.9	2 10 1/2				2-10 1/2	13
21	1	L 4 3/4	1 1/2			am		5

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Amb # PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes 259
DRAW. MADE BY LEH DATE 9-25-48
DRAW. CHECKED BY Jim DATE 11/11/48

ORDER No. J5760 SHEET No. 109

Holes 15 Unless Noted

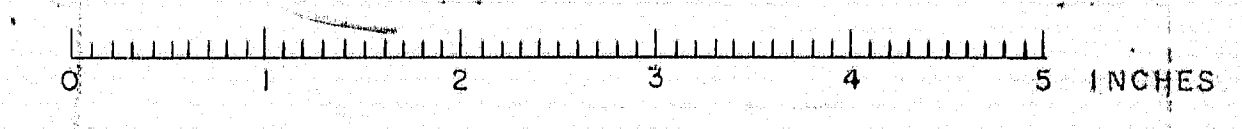
Rivets 3

PAINT: Yes, except as noted
SHOP CONTACT SURFACES: No

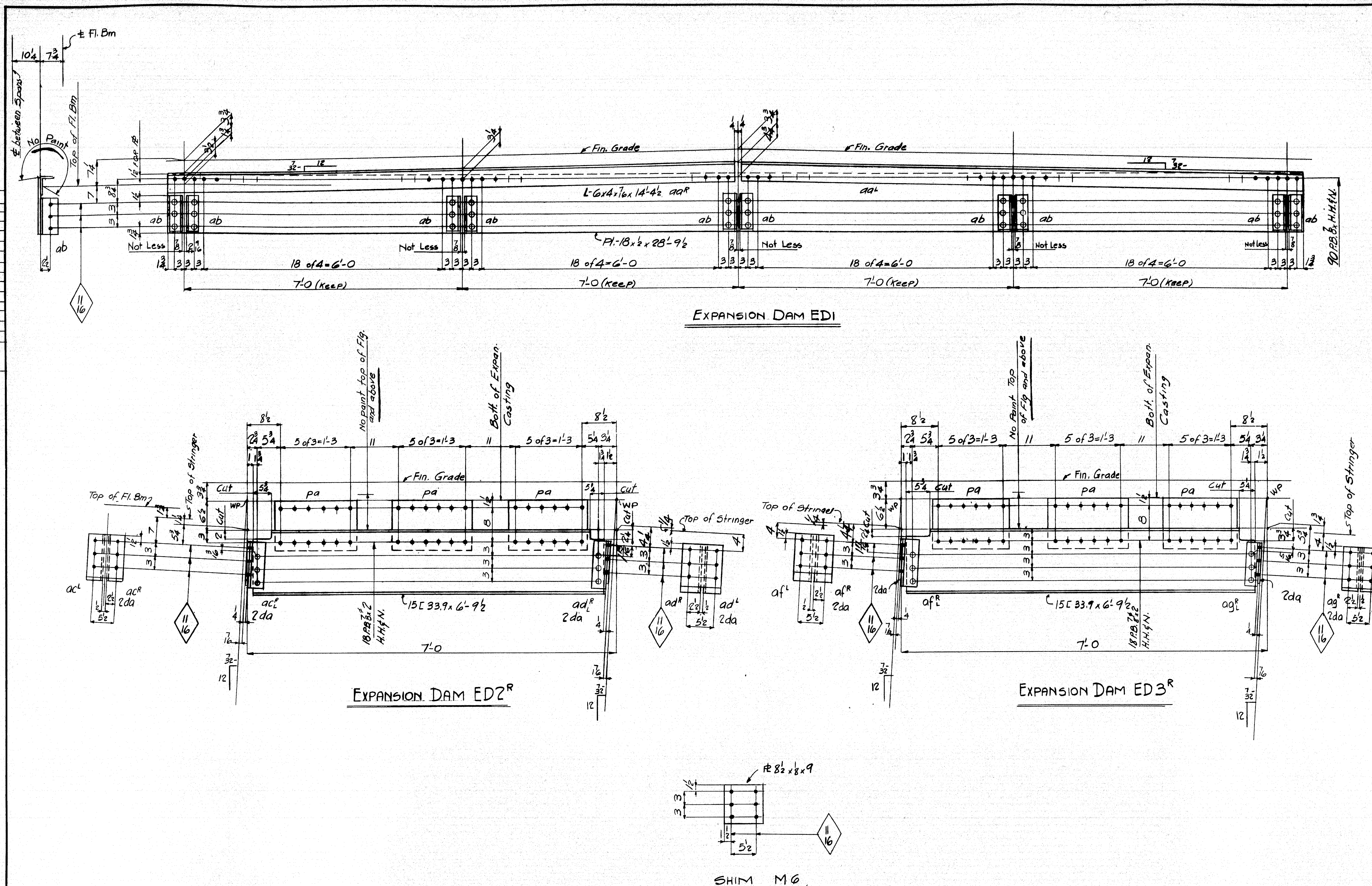
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REVISIONS

51-170



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



LINE	ITEM	QUANTITY	UNIT	MATERIAL	REMARKS	ORDERED	CALCULATED
1							
2				ONE EXPANSION DAM ED1			
3							
4	1	18	2	28 9/2			S
5	2	16	4	14 4 1/2	aq		S
6	10	4	4	9	ab		S
7	90	PB	8 1/2	H.H.F.N.			S
8							
9							
10							
11							
12				ONE EXPANSION DAM ED2R			
13				ONE EXPANSION DAM ED2L			
14							
15	2	15	6	9 1/2			S
16	12	6	11	1 6	pa		S
17	4	4	4	9 1/4	ac		S
18	8	8	8	9	da		S
19	4	4	4	10 1/2	ad		S
20							
21	36	PB	8 1/2	H.H.F.N.			S
22	8	S.B.	5/8"				S
23							
24							
25							
26				ONE EXPANSION DAM ED3R			
27				ONE EXPANSION DAM ED3L			
28							
29	2	15	6	9 1/2			S
30	6	11	1	6	pa		S
31	4	4	4	10 1/2	ac		S
32	8	8	8	9	da		S
33	4	4	4	10 1/2	ad		S
34							
35	36	PB	8 1/2	H.H.F.N.			S
36	8	S.B.	5/8"				S
37							
38							
39							
40							
41							
42							
43							
44							
45	16	Shims	8 1/2	9	MG		S
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

EXPAN. DAMS ED1, ED2R, ED2L, ED3R, ED3L
SHIMS MG

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION AFFILIATE

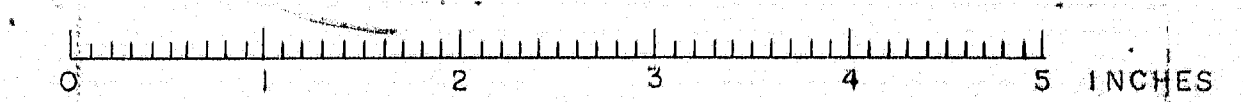
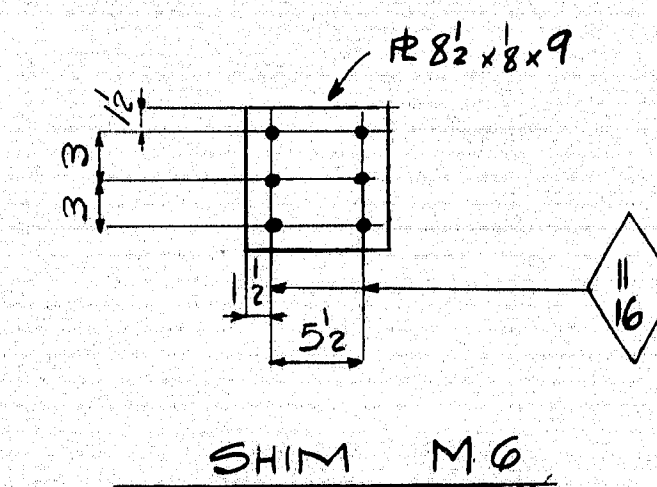
DRAWINGS MADE AT **AMO #1** PLANT
WORK FABRICATED AT **ELMIRA** PLANT
IN CHARGE OF **HUGHES 259**
DRAW. MADE BY **RAA** DATE **9-21-48**
DRAW. CHECKED BY **Jus** DATE **11/19/48**

ORDER No. **J5760** SHEET No. **110**

REVISIONS

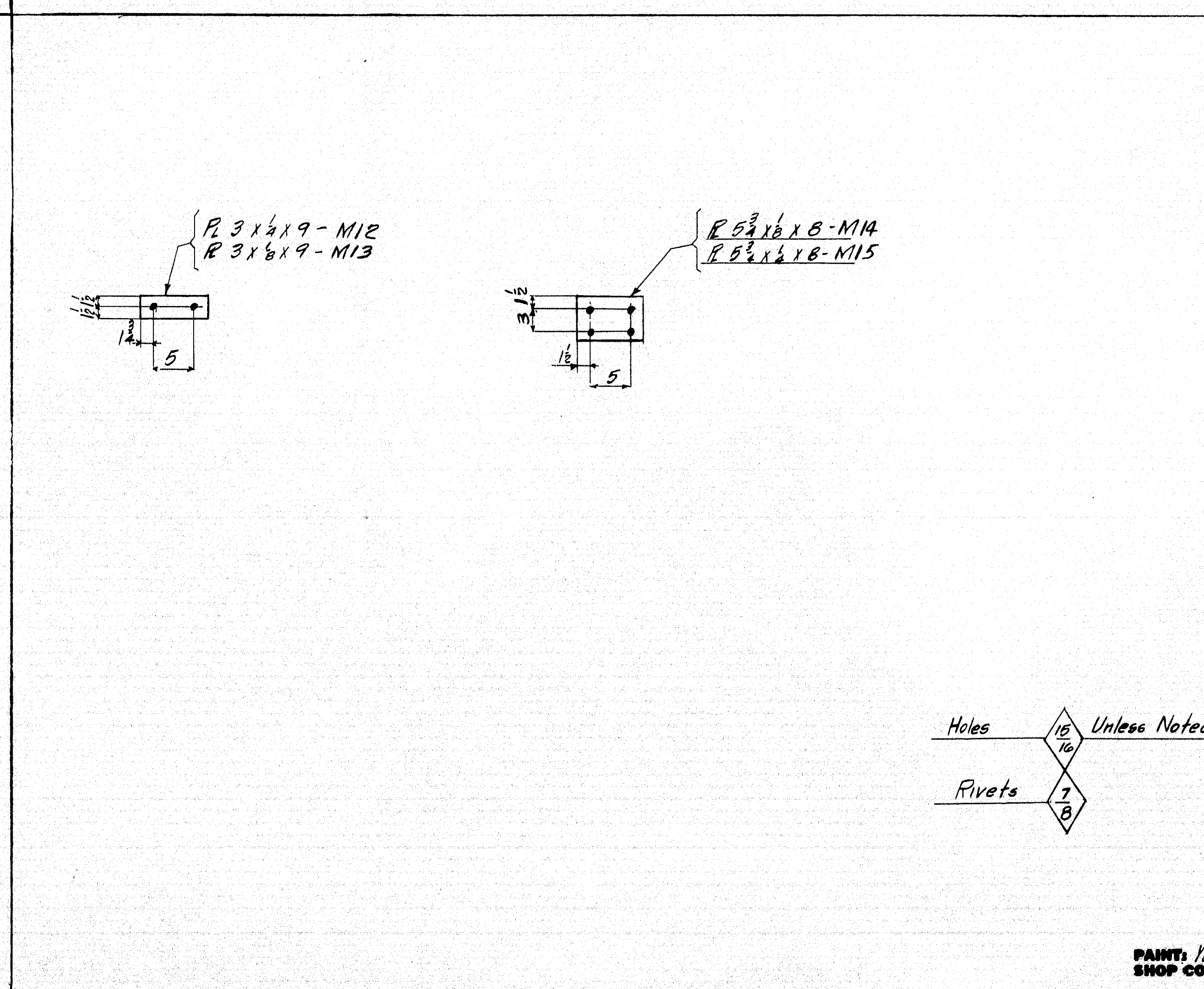
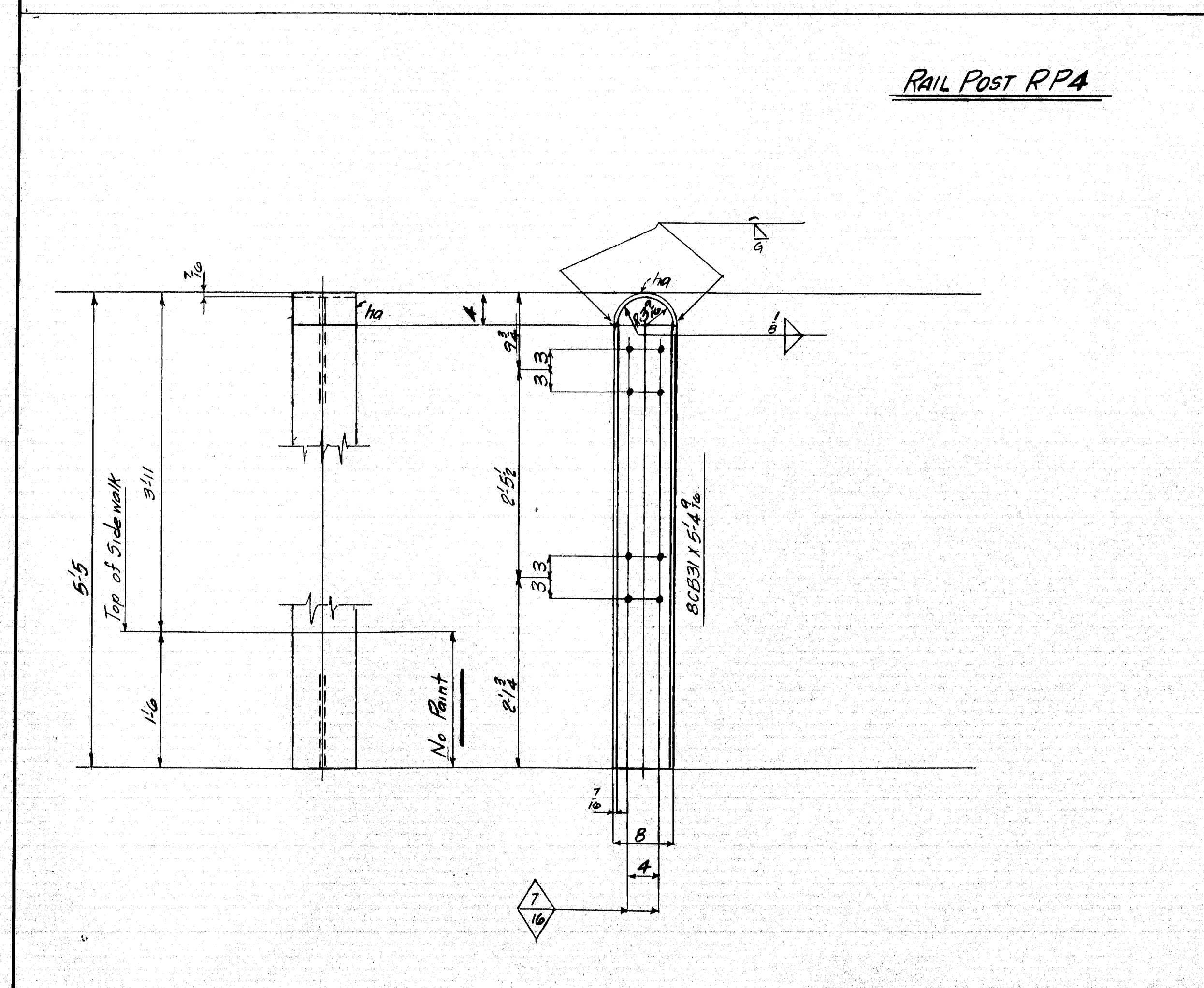
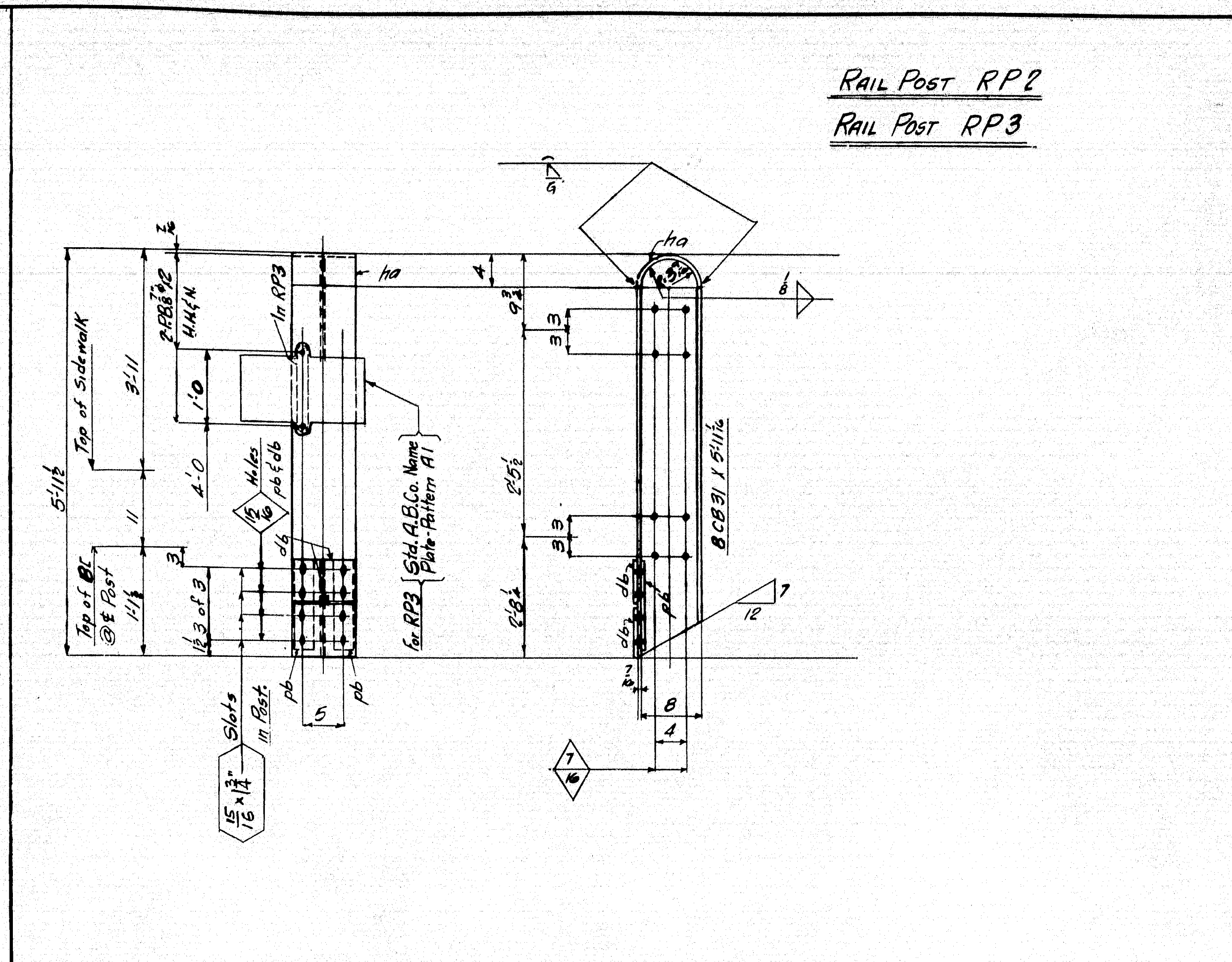
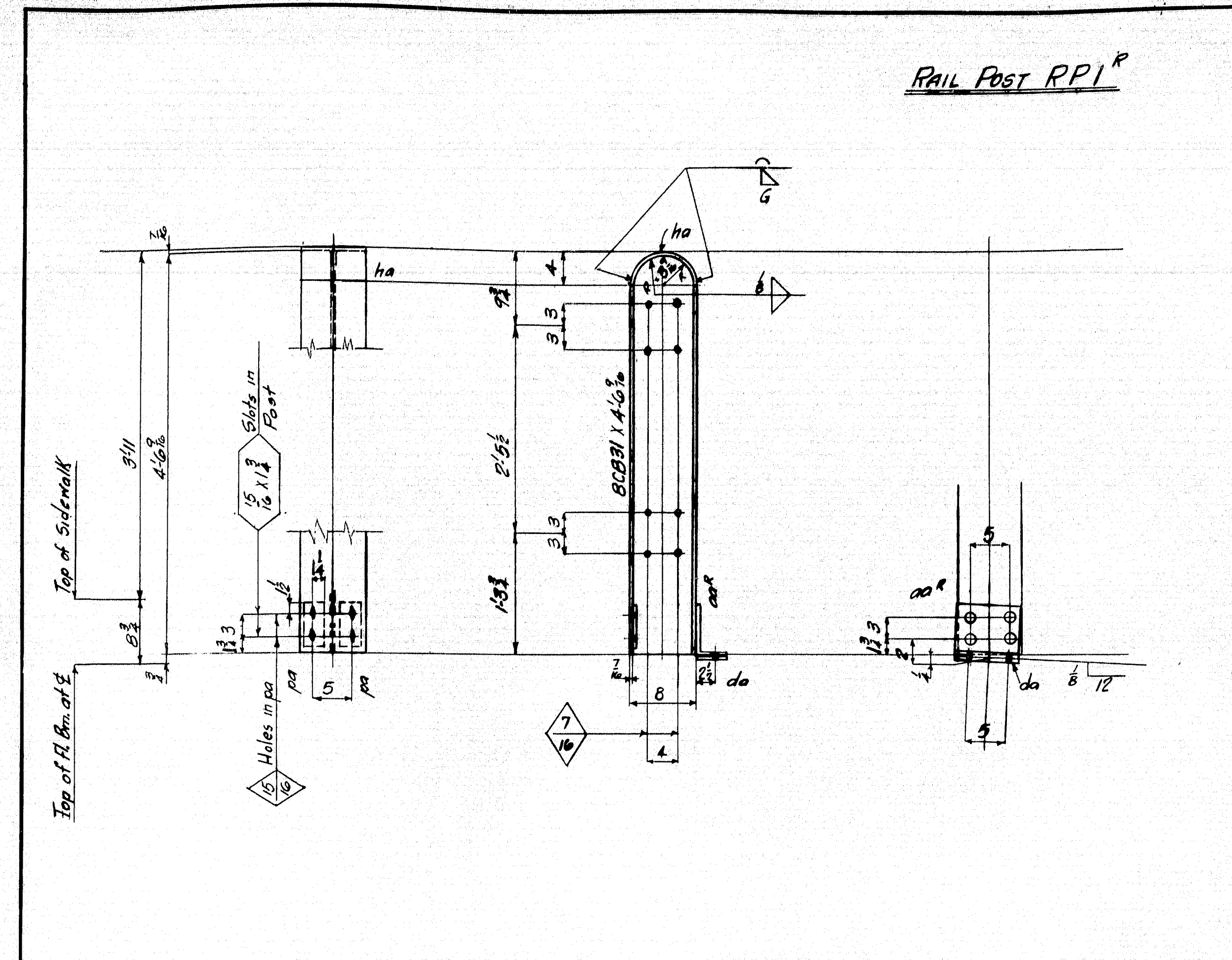
PAINTS: Yes-Except as Noted
SHOP CONTACT SURFACES: No

Holes $\frac{15}{16}$ Unless Noted
Rivets $\frac{7}{8}$



AM. BR. 105

51-171



LINE	ITEM	QTY	DESCRIPTION	REMARKS	ORDERED	RECEIVED
1	ONE RAIL POST RPI					
2	ONE RAIL POST RP2					
3	ONE RAIL POST RP3					
4	2 B CB 31	4	6 1/2			
5	1 R	2 1/2	8	pa		
6	1 L	7	8	aa		
7	2 R	8	10	ha	(bent)	
8	2 R	3	2	da		
9	12 S.B. 8"					
10						
11						
12						
13	9 RAIL POSTS RP2					
14	ONE RAIL POSTS RP3					
15						
16	10 B CB 31	5	11 1/2			
17	20 R	2 1/2	8	pa		
18	1 S.B. 8"					
19	Name Plate			For RP3		
20	Pattern #1					
21	2 R 6" X 12"			H.I.E.M.	For RP3	
22	10 R			ha	(bent)	
23	40 S.B. 8"					
24	20 R	5 1/2	8	da		
25						
26						
27	23 RAIL POSTS RPA					
28						
29	2 B CB 31	5	11 1/2			
30	23 R			ha	(bent)	
31						
32						
33						
34						
35						
36						
37	2 Shims	3	1/2	8 1/2	M12	
38	4 Shims	3	1/2	8 1/2	M12	
39						
40						
41	40 Shims	5 1/2	1/2	8	M14	
42	20 Shims	5 1/2	1/2	8	M15	
43						
44						
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RAIL POSTS RPI, RP2, RP3, RPA
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Amh. #1 PLANT
WORK FABRICATED AT Elmora PLANT
IN CHARGE OF Hughes Ext. 259
DRAW. MADE BY H.V. DATE 9-21-48
DRAW. CHECKED BY F.M. DATE 11/22/48

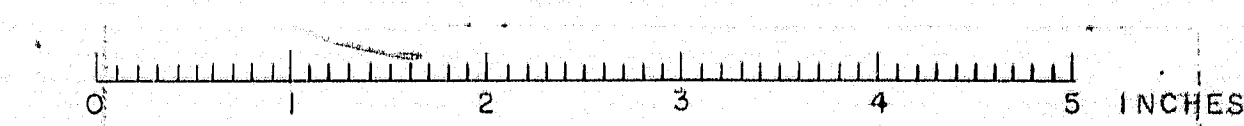
ORDER No. J5760 SHEET No. 111

PAINT: Yes, Except as Noted
SHOP CONTACT SURFACES: No

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Welding - MA 105 & 100

51-172



LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS						GRIP	CALCULATED RIVET TOTAL	SHIPMENTS
						LENGTH UNDER HEAD	HEAD	NUT	WASH-ER	TYPE OF BOLT				
1	2164	2390	7/8	2 1/2									1302	
2	1704	1865	"	2 3/4									1413	
3	184	210	"	2 1/2									130	
4	40	385	"	2 5/8									246	
5	1428	1580	"	2 3/8									1643	
6	1180	1310	"	2 7/8									891	
7	500	560	"	3"									392	
8	440	495	"	3 1/2									366	
9	18	25	"	3 3/4									23	
10	60	75	"	4 1/4									67	
11	240	275	"	6 3/4									369	
12														
13	60	75	1"	5 1/2									108	
14													606	
15	240	255	7/8	2 1/2	HEX	HEX							267	
16	173	185	"	2 1/2	HEX	HEX							159	
17	142	155	"	2 3/4	HEX	HEX							140	
18	558	590	"	3"	HEX	HEX							555	
19	860	910	"	3 1/2	HEX	HEX							892	
20	400	425	"	3 3/4	HEX	HEX							938	
21														
22														
23														
24														
25	10#													
26	25#													
27														
28														
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45														
46														

FIELD RIVETS AND BOLTS

1st & 2nd Divisions

DATE 1/15

DRAWING
AMB #1

PREPARATION
ELMORA

HUGHES 25
ORDER NO.
J-5762

PAGE NO.
C 102

NAME OF STRUCTURE

AUGUSTA BRIDGE OVER KENNEBEC RIVER, AUGUSTA, MAINE. BR. NO. 5196, PROJECT F1, U1-389 (2)

31-175

SPECIFY UNDER D1
LDF = LIGHT DRIVE FIT
F = DRIVE FIT
OF = ORDINARY FIT
(HOLE DIAMETER MINUS 1/32")

STANDARD WASHERS

TYPE	X	V	P
DIMENSION A	GRID + 1/8"	GRID - 1/8" OR 1/16"	GRID - 1/8" OR 1/16"

FOR AMBRIDGE FABRICATION FOR ORDINARY FIT TURNED BOLTS REDUCE DIMENSION A 1/8"

NO	TYPE OF REQ. OF HEAD	SIZE OF REAMED HOLE	D1	D2	A	B	L	GRID	TYPE OF NOTCH	NO. OF NOTCHES EACH BOLT	TYPE WASHER	NO. AND SIZE OF WASHERS EACH BOLT	LOCATION	CALCULATED		SHIPMENTS
														WEIGHT	TOTAL	
40	Hex	1 1/8"	1 1/8"	3/4"	1 1/8"	5/8"	3-8	H	1	1	V	One 1 1/8" Hole	Girders to Pedestal	5	127	✓
40	Hex	1 1/8"	1 1/8"	3/4"	1 1/8"	5/8"	4	H	1	1	V	One 1 1/8" Hole	Cap	5	127	✓
80																

Req. 22-706 For Turned Bolts
Req. C-3837 For Lock Washers

sh

TURNED BOLTS

Girder Flange to Pedestal Cap

BOLTS 15
HOLES 176

DATE 1/17/22

DRAWINGS Amb #1

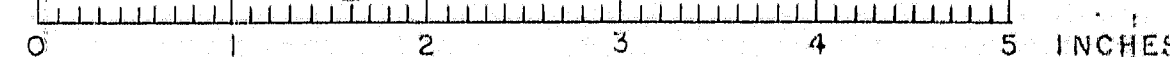
Highes 259

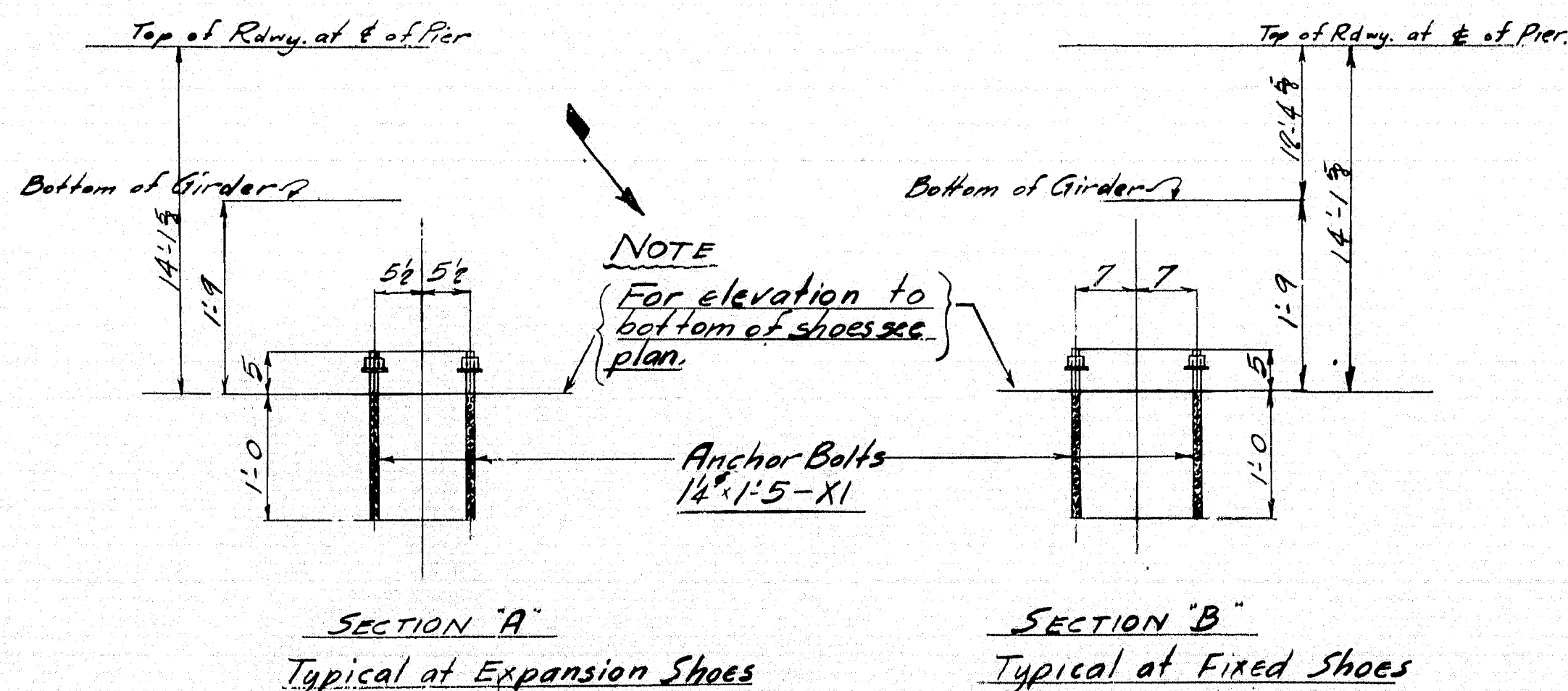
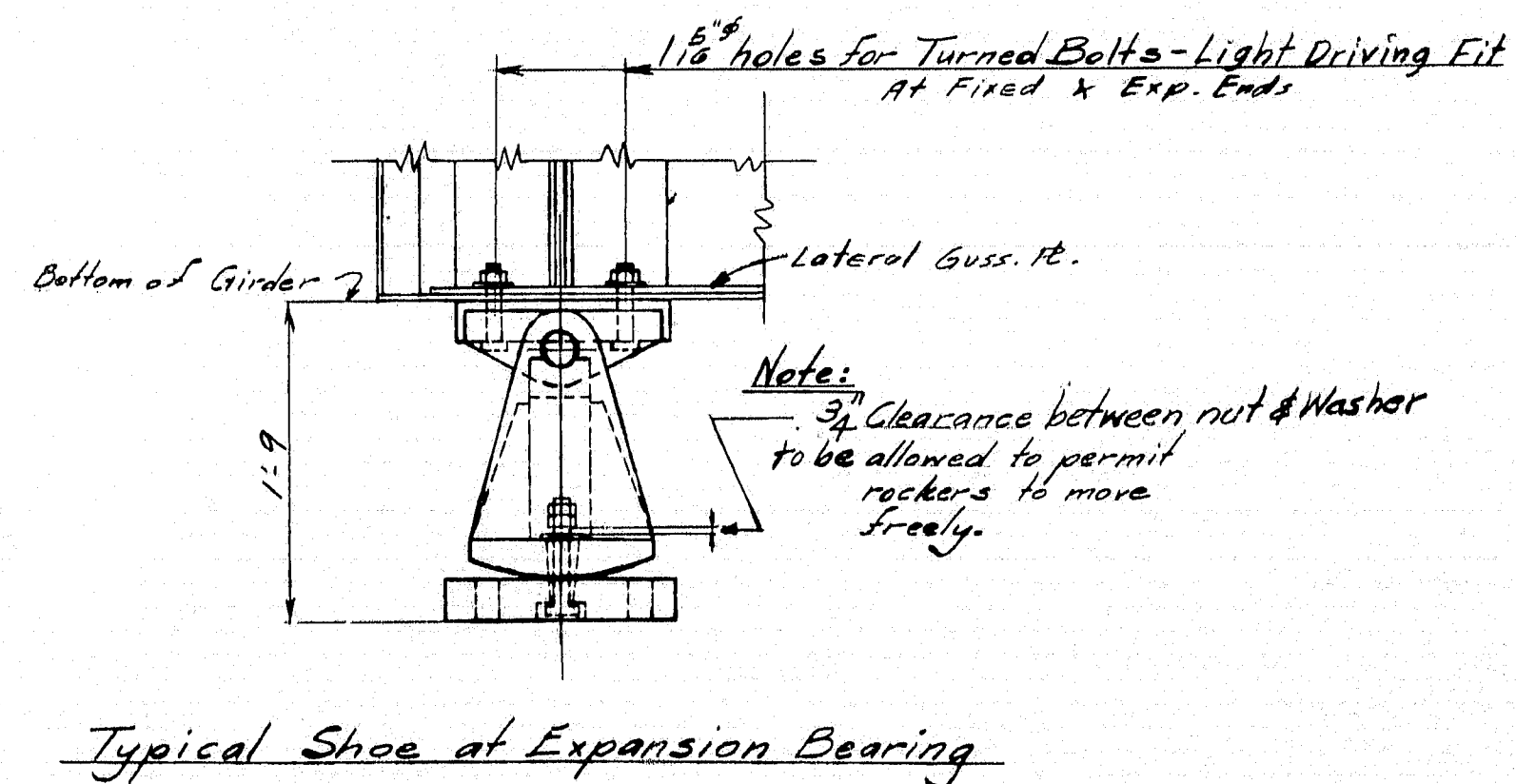
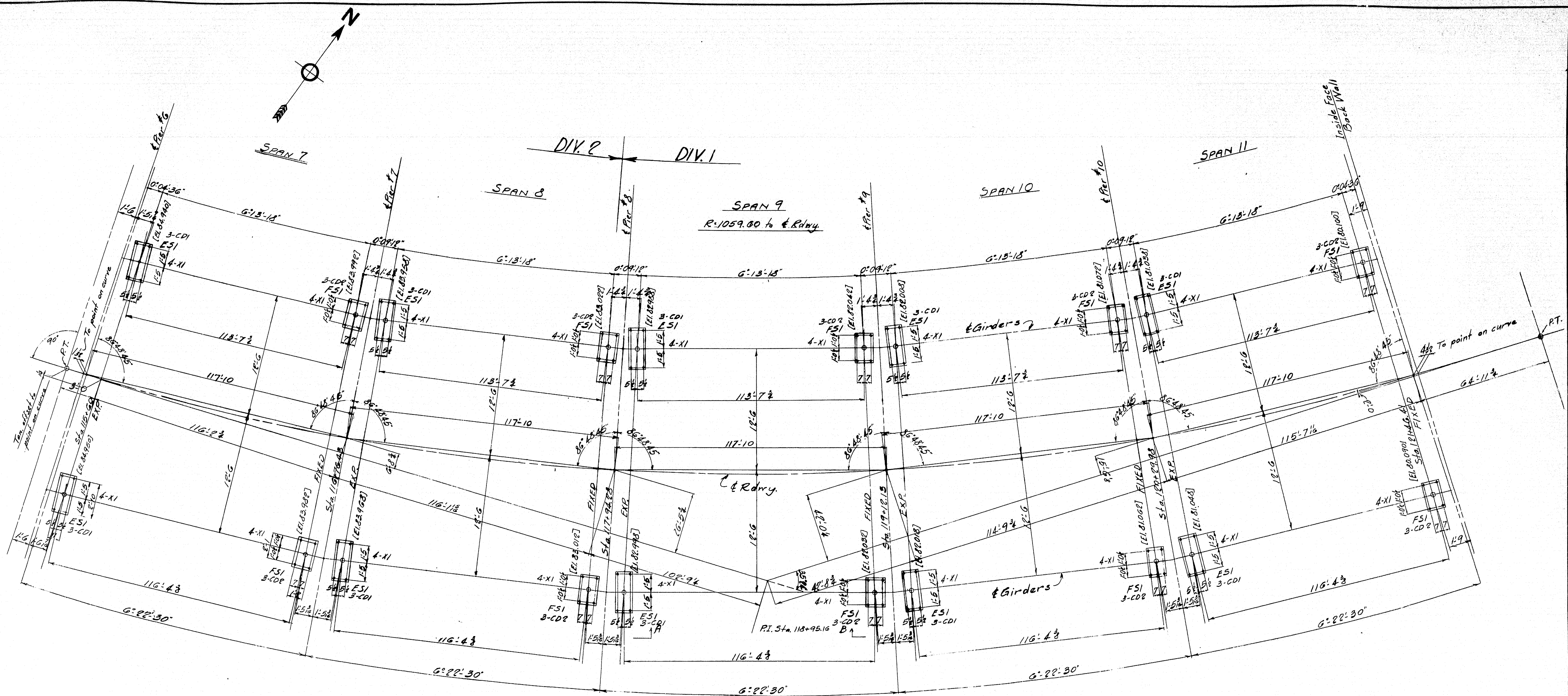
ORDER NO. J-5762

SHEET NO. C101

NAME OF STRUCTURE

of Maine, State Highway Comm, Bridge Div, Bridge over Kennebec River, Augusta, Me, Proj. FI, 01-389 (2)

[illegible]



ANCHOR BOLT PLAN SPANS #7, 8, 9, 10 & 11

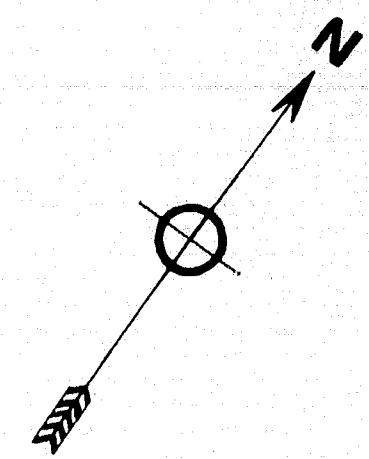
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 2

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

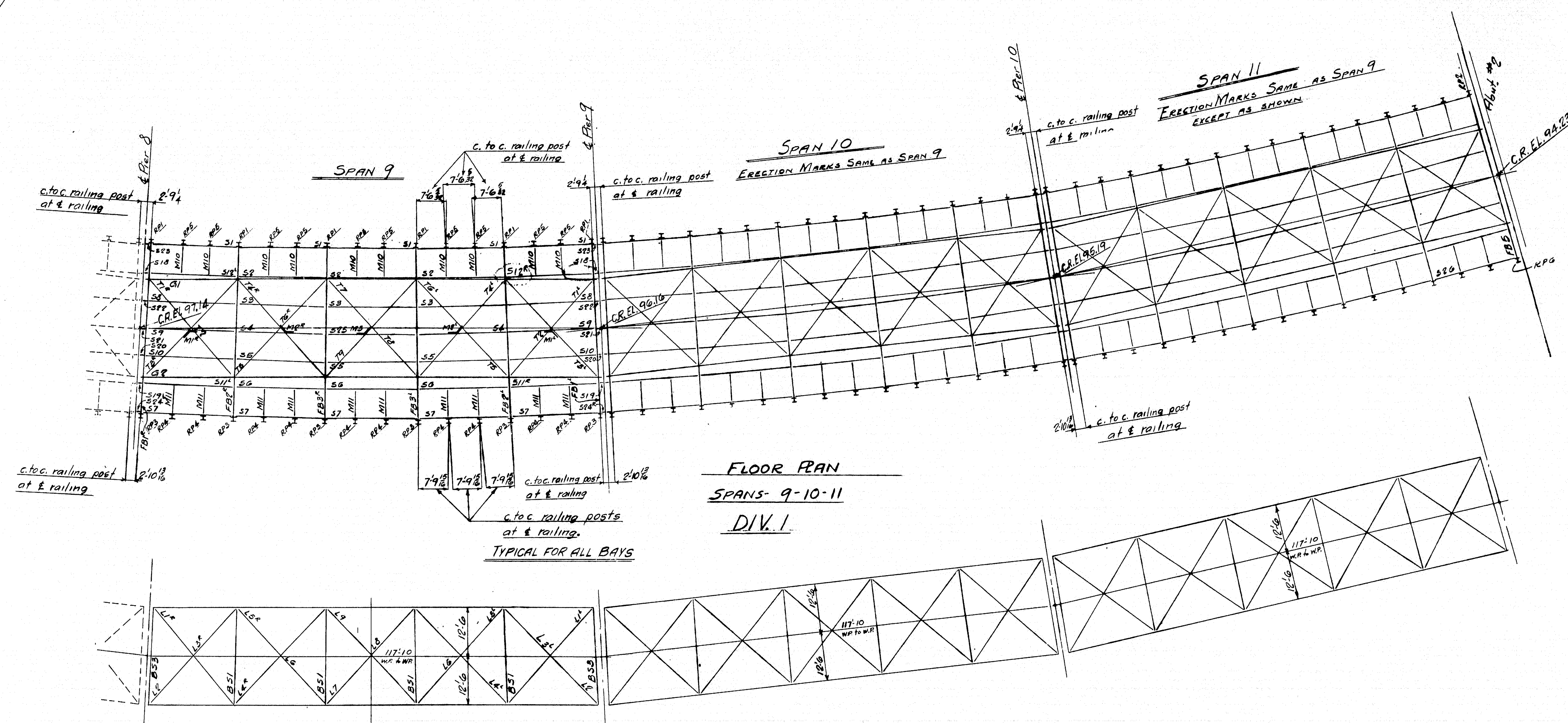
DRAWINGS MADE BY: *Amb* PLANT
WORK FABRICATED AT: *Elmira* PLANT
IN CHARGE OF: *Hughes - 259*
DRAW. MADE BY: *RJK* DATE: *9-8-48*
DRAW. CHECKED BY: *FM* DATE: *10/4/48*

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REVISIONS	

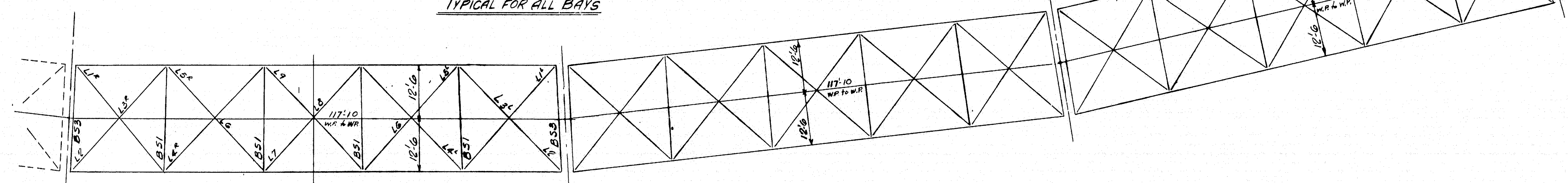
ORDER No. *J5762* SHEET No. *E1*



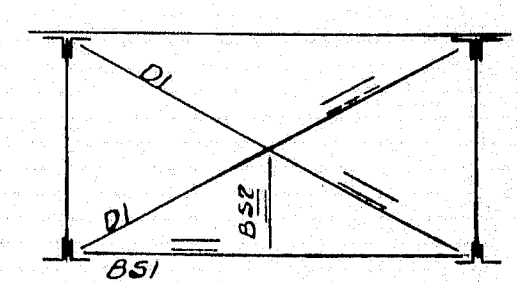
See E102 for
Spans 7 & 8



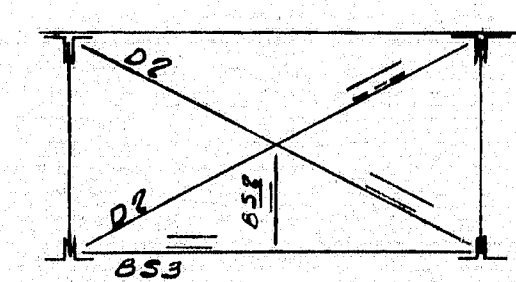
FLOOR PLAN
SPANS- 9-10-11
DIV. I



PLAN OF BOTTOM LATERALS
SPANS- 9-10-11



TYPICAL INT. SWAY FRAME



TYPICAL END SWAY FRAME

NOTE:
For Expansion Dam see Sh. E103
For Cross Section see Sh. E104
C.R. denotes Crown of Road

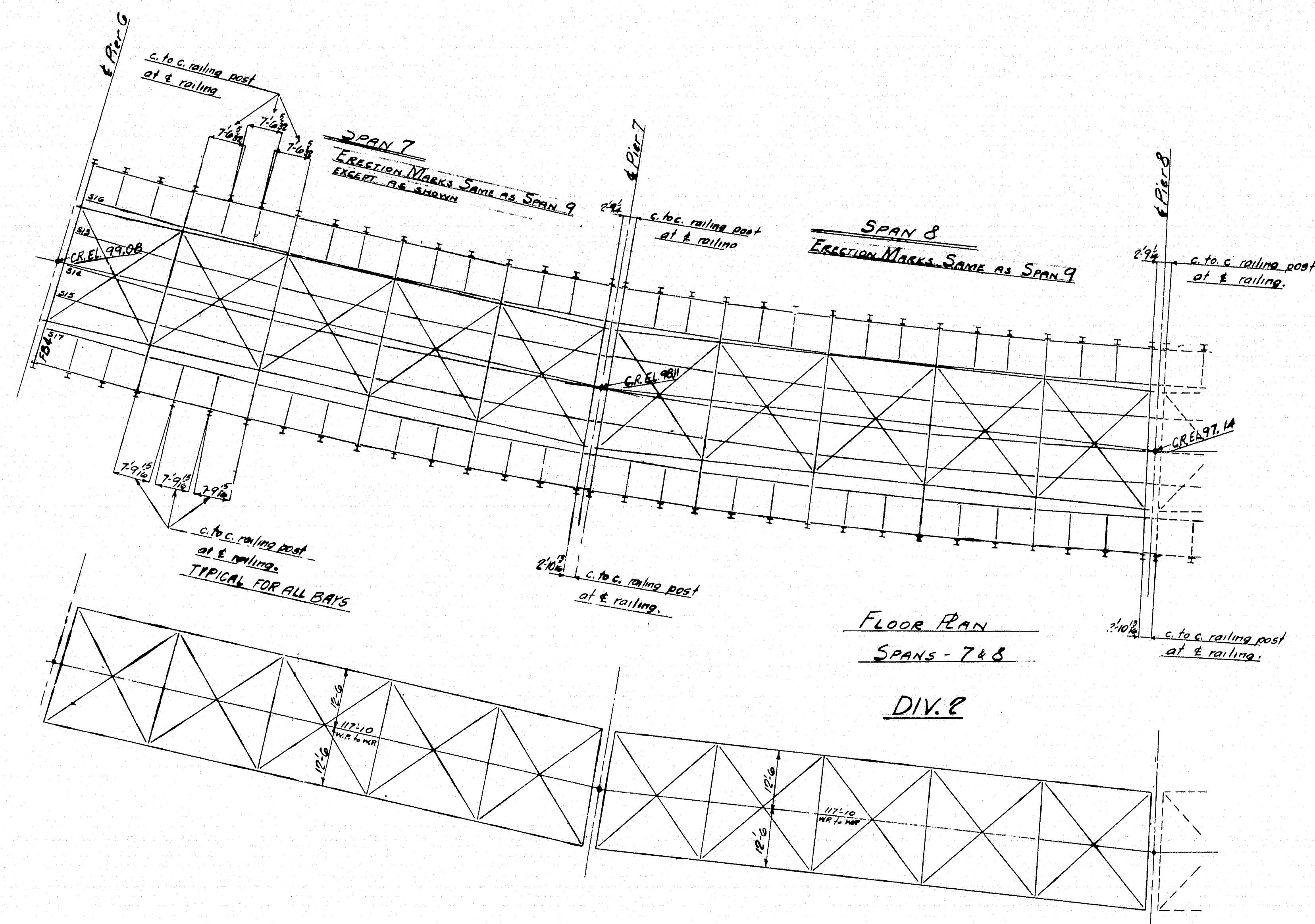
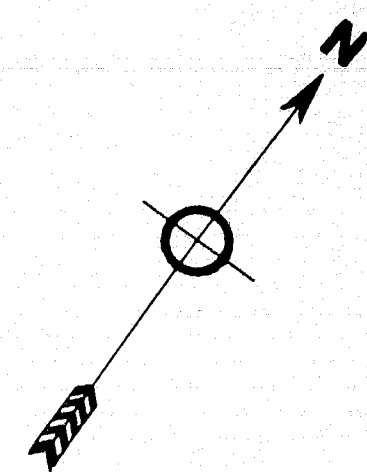
ERECTION PLAN
SPANS 9-10-11
DIV. I
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 2

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Amb #1 PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes - 259
DRAW. MADE BY RUK DATE 8-20-48
DRAW. CHECKED BY FM DATE 10/5/48

F	
E	
D	
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REVISIONS	

ORDER No. J5762 SHEET No. E101



See E101 For Spans 9-10-11

FLOOR PLAN
SPANS - 7 & 8

DIV. 2

PLAN OF BOTTOM LATERALS
SPANS - 7 & 8

NOTE:

For Expansion Dams see Sh. E103
For Cross Section see Sh. E104
See E101 For X Frames

ERECTION PLAN
SPAN 7-8
DIV. 2

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 2

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION

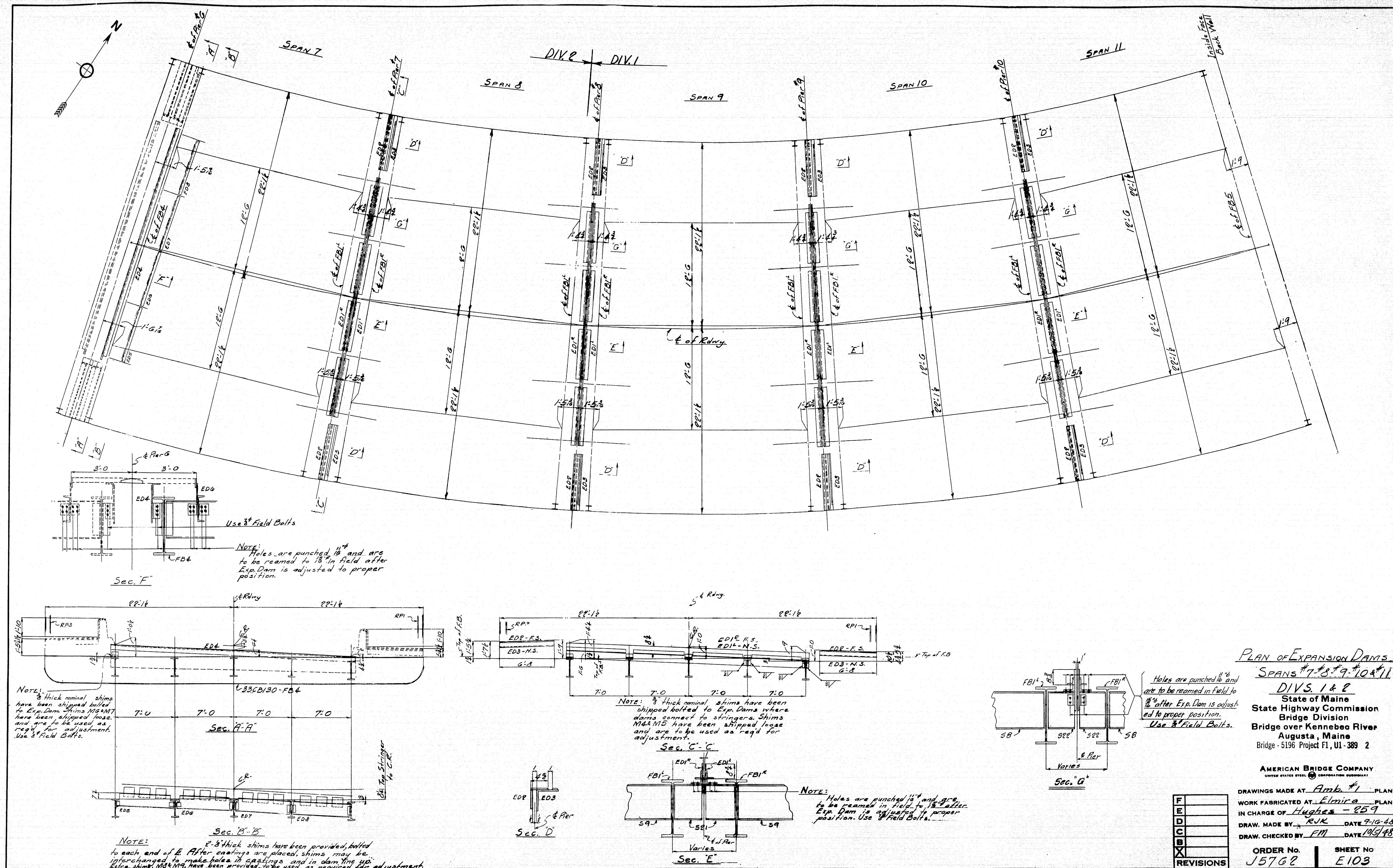
DRAWINGS MADE AT Amherst PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes - 259
DRAW. MADE BY RJK DATE 8-24-48
DRAW. CHECKED BY FTH DATE 10-5-48

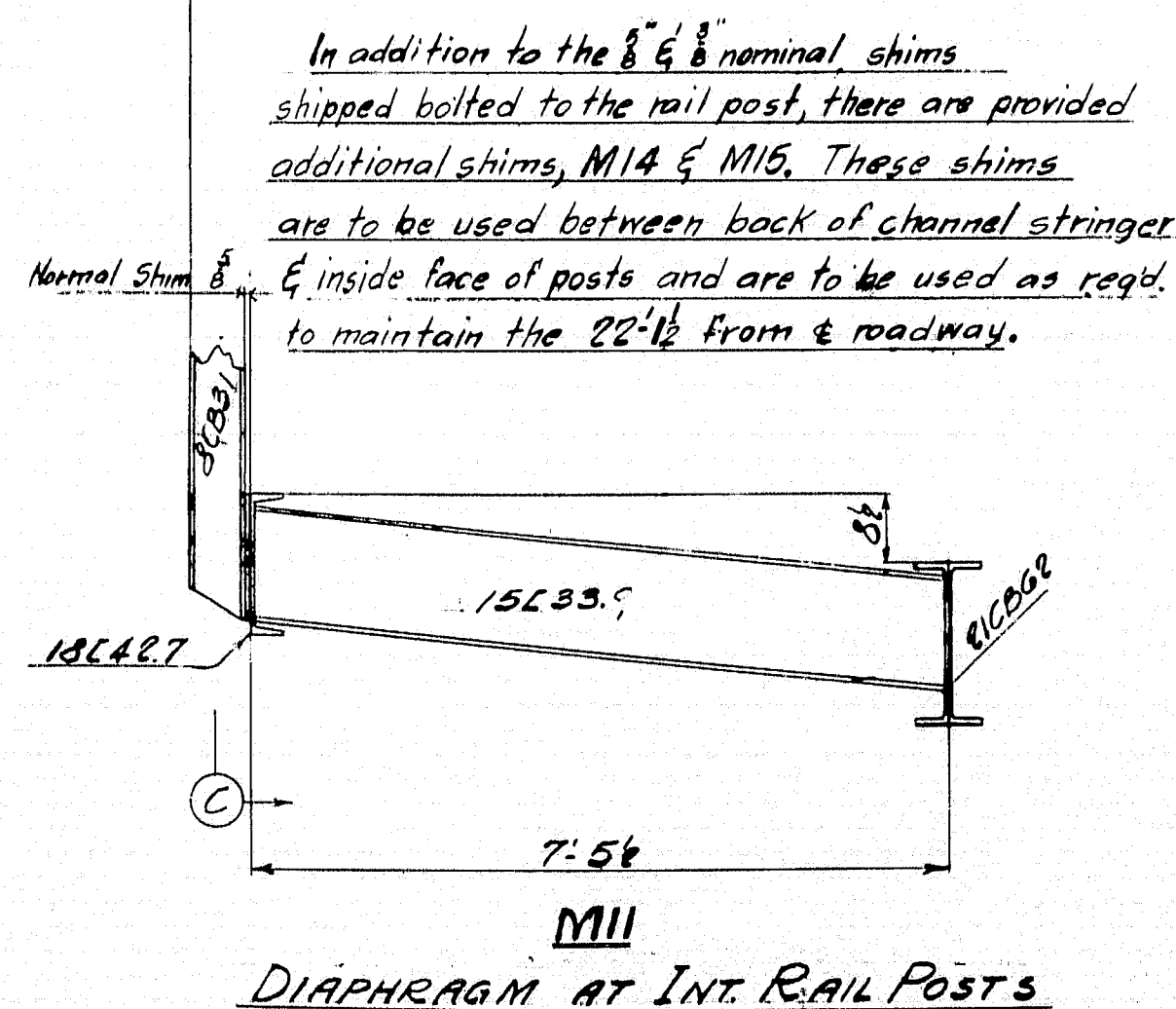
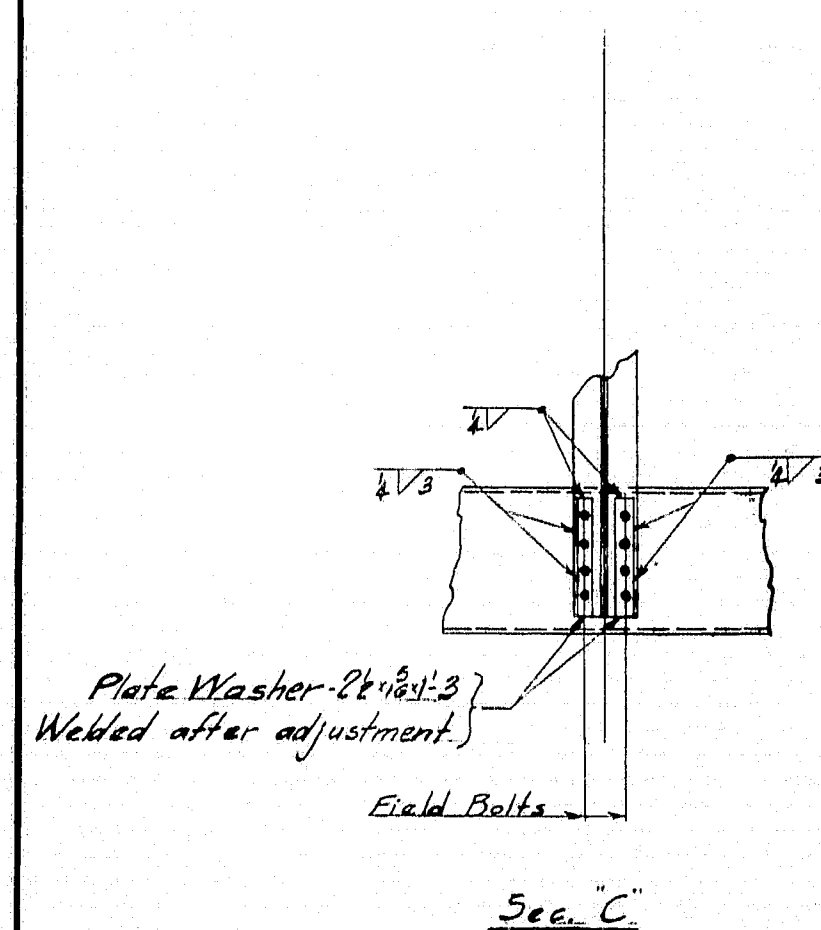
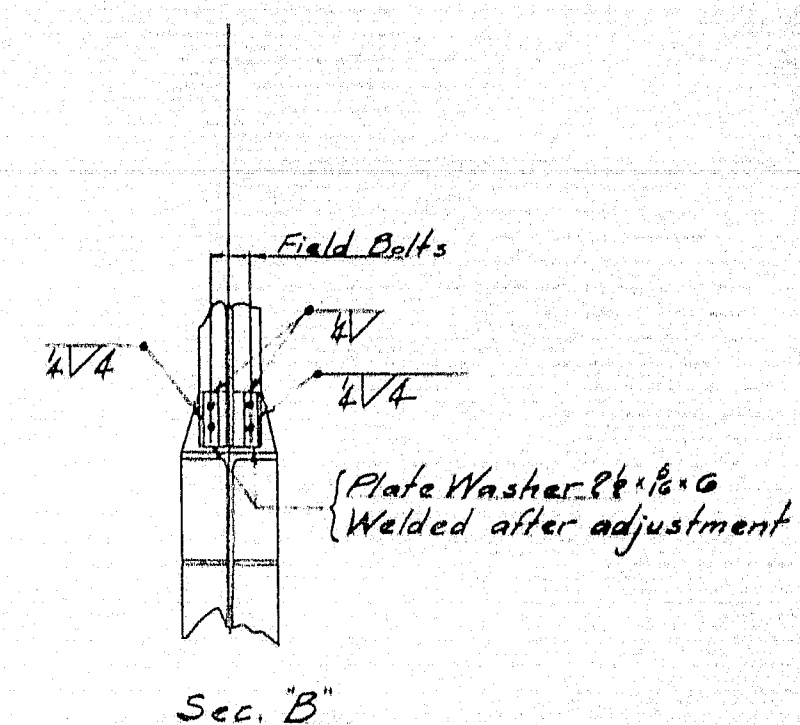
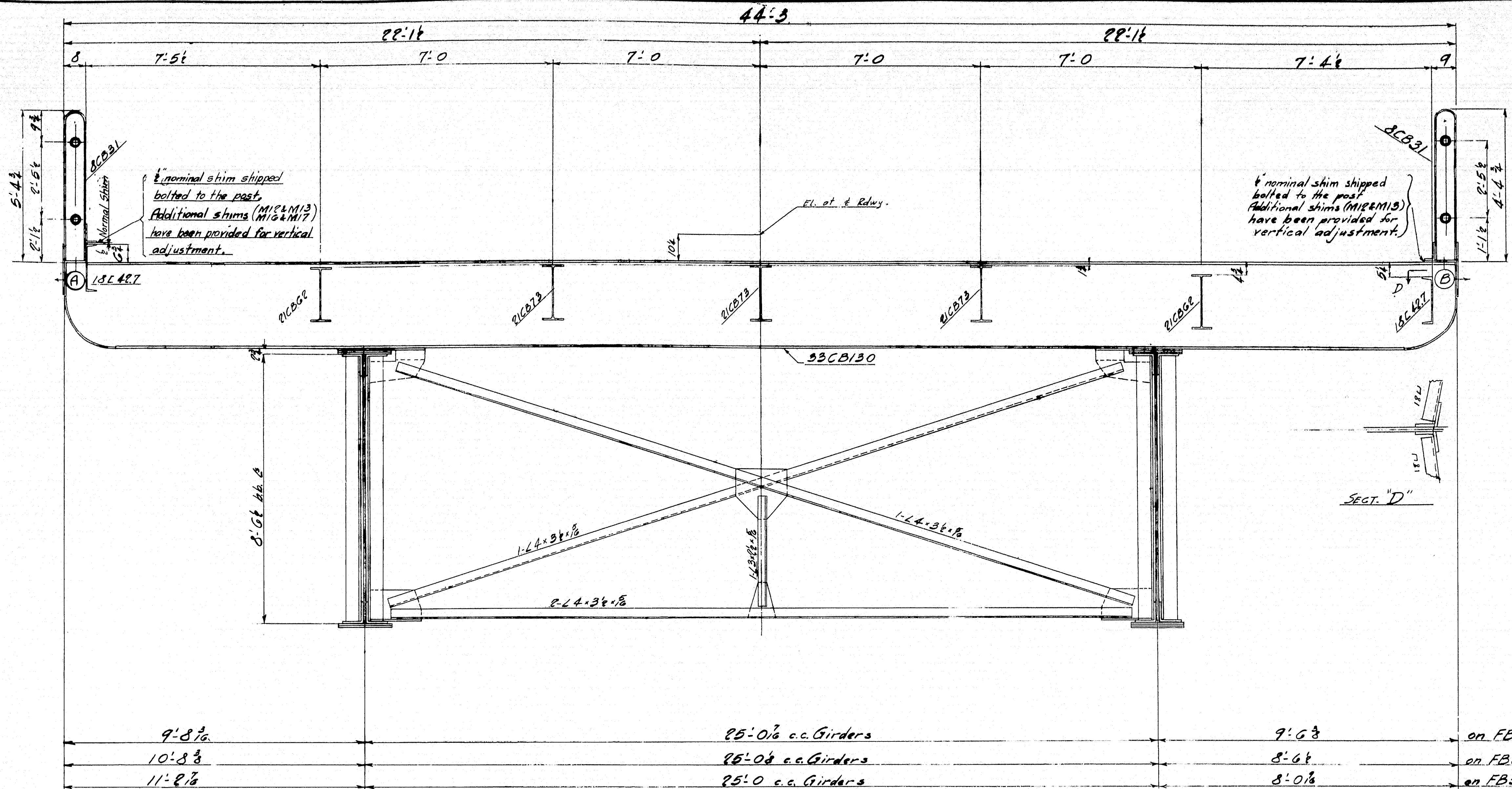
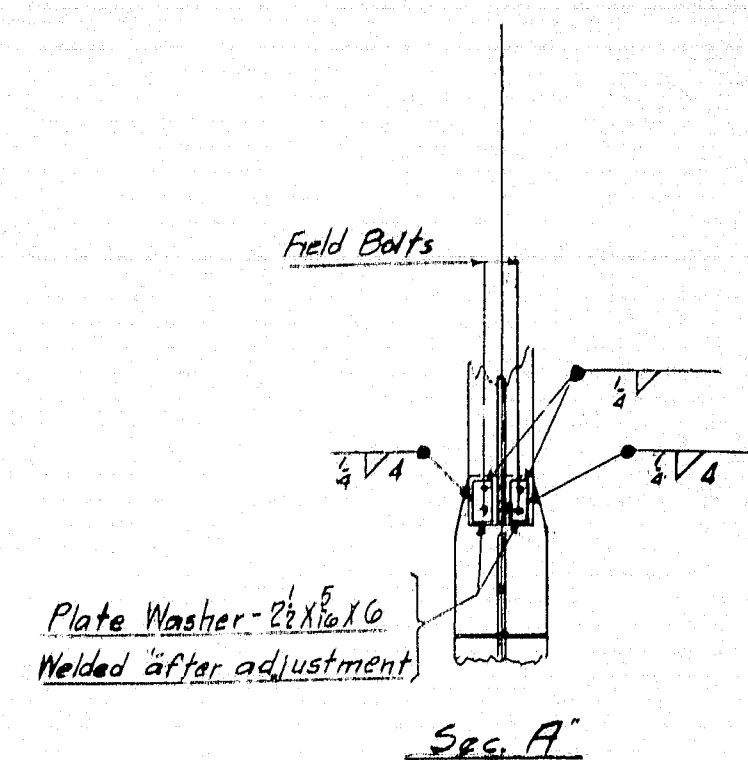
F	
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X	1/8/49
REVISIONS	

ORDER No. J5762 SHEET No. E102

51-178

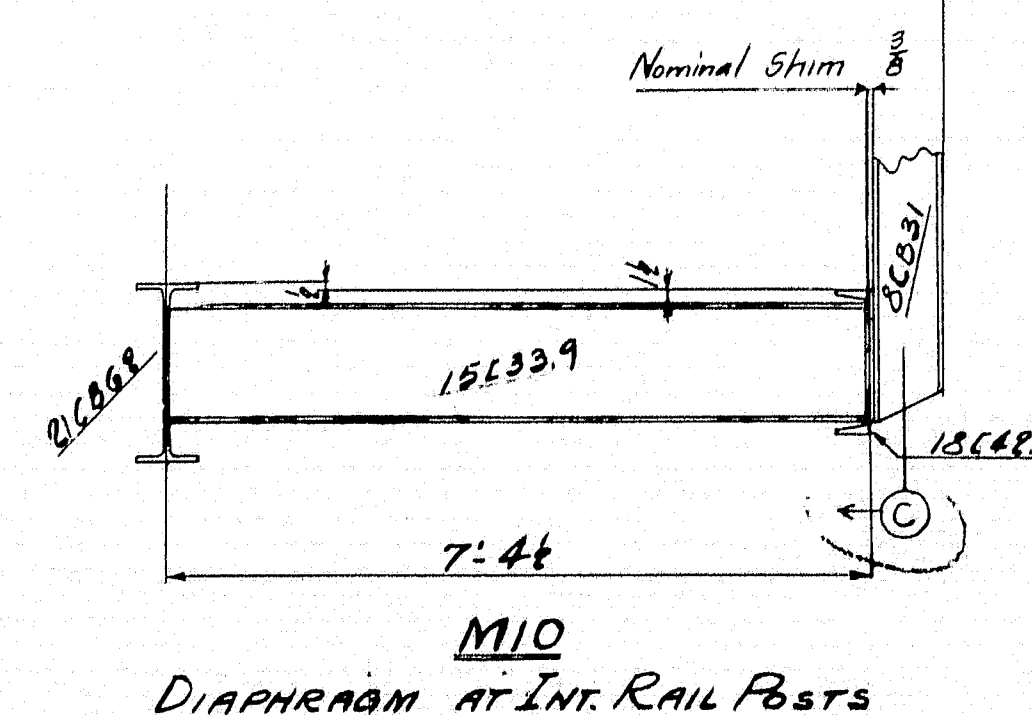
0 1 2 3 4 5 INCHES





TYPICAL CROSS SECTION

- RAILING NOTES**
- All posts and poles to be vertical and set normal to &.
 - Outside face of posts to be 22'-1 1/2" from & roadway.



TYPICAL CROSS SECTION

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 2

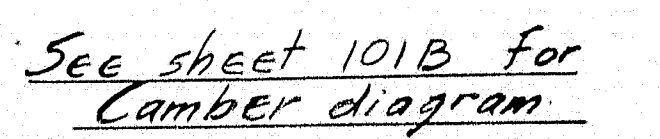
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION COMPANY

DRAWINGS MADE AT Amb #1 PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes - 259
DRAW. MADE BY RJK DATE 7-1-48
DRAW. CHECKED BY FM DATE 10/5/48

REVISIONS
1/1/49

ORDER NO. J5762 SHEET NO. E104

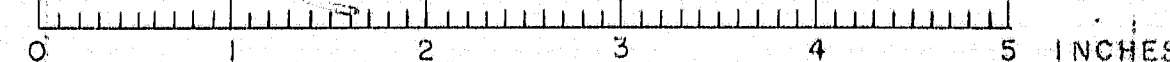
51-180



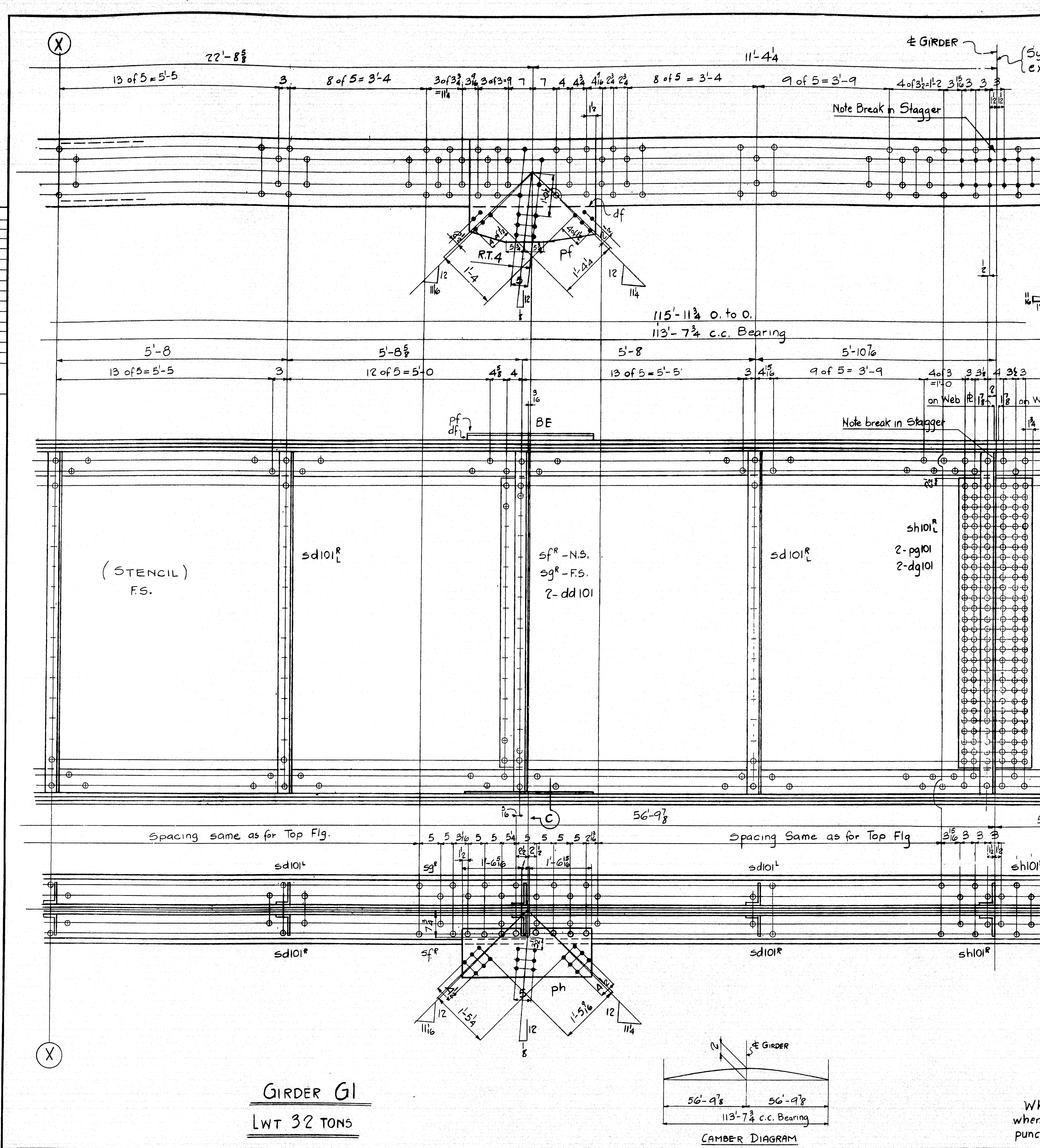
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

ORDER No. J5762	SHEET No. 101 AB
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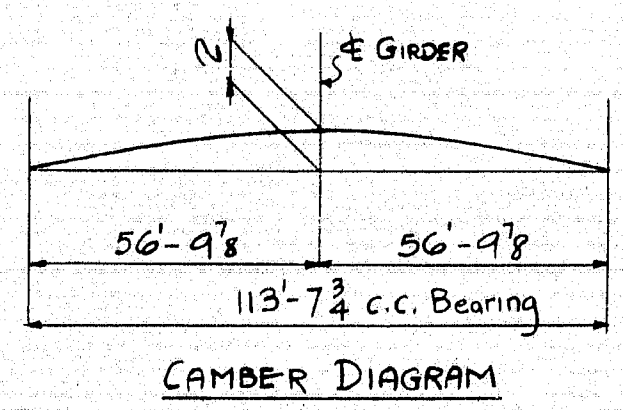
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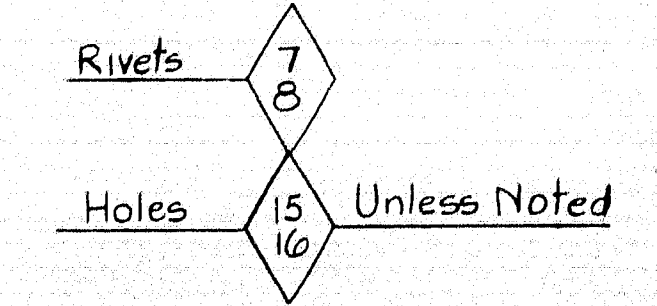
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1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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13	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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25	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/



GIRDER G1
LWT 32 TONS



Notes:
Holes marked RT are to be punched 1/4" small and Reamed to size to a metal Template
Spacing not given 3" c.c. holes.
Where there are more than 5 thicknesses or when any main material is over 3/4" thick all holes to be punched 1/4" small & reamed to size or drilled from the solid.



MARK	1DW	2DW
G1	3	2

F	E	D	C	B	A
1	2	3	4	5	6

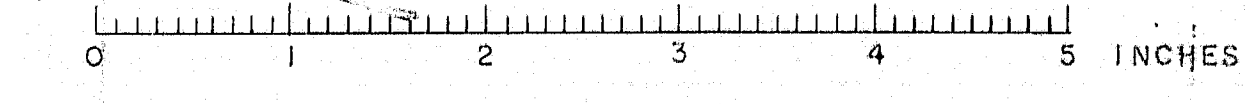
LINE	ITEM	QTY	UNIT	MATERIAL	LENGTH	REMARKS	ORDERED	ITEM	QUANTITY	WEIGHT	FOR ONE	CALCULATED
1												
2				5 GIRDERS	G1							
3												
4	20	L	8	8	115	11 1/2			116-0 1/2	41		
5	10	Web	102	2	57	11 1/2			58-0 1/2	3		
6	5	COV	20	3/4	115	11 1/2			116-0 1/2	12		
7	5	COV	20	3/4	82	0			82-0	13		
8	10	COV	20	3/4	62	0			62-0	17		
9	20	L	6	4	8	4 1/2	sd101R		55-0	50		
10	20	L	6	4	8	4 1/2	sd101R	FIN. 2	55-0	43		
11	20	L	6	4	8	4 1/2	sd101R	FIN. 2	55-0	43		
12	40	20	FL	6	4	8	4 1/2	sd101R	36-0	7		
13	20	L	6	4	8	4 1/2	sd101R	FIN. 1	55-0	46		
14	20	L	6	4	8	4 1/2	sd101R	FIN. 1	55-0	46		
15	80	40	FL	7	2	7	2	dd101	35-11	25		
16	160	L	6	4	8	4 1/2	sd101R	CRIMPED	55-0	50		
17	160	L	6	4	8	4 1/2	sd101R		55-0	50		
18	20	L	6	4	8	4 1/2	sd101R		35-11	8		
19	20	L	6	4	8	4 1/2	sd101R					
20	20	L	6	4	8	4 1/2	sd101R		24-10	26		
21	20	L	6	4	8	4 1/2	sd101R		24-10	26		
22	10	FL	22	3/4	2	5 1/2	sd101R		24-10	6		
23	10	FL	22	3/4	2	5 1/2	sd101R		24-10	19		
24	10	FL	22	3/4	2	5 1/2	sd101R		24-10	19		
25	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
26	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
27	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
28	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
29	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
30	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
31	10	FL	22	3/4	2	5 1/2	sd101R		24-10	11		
32	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
33	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
34	10	FL	12	3/4	1	10 1/2	sd101R	(Bent)	40-45	21		
35	10	FL	12	3/4	1	10 1/2	sd101R	(Bent)	40-45	21		
36	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
37	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
38	10	FL	12	3/4	1	10 1/2	sd101R	(Bent)	40-45	21		
39	10	FL	12	3/4	1	10 1/2	sd101R	(Bent)	40-45	21		
40	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
41	20	L	4	3 1/2	8	1	3	sd101R	55-60	58		
42	10	FL	12	3/4	1	10 1/2	sd101R	(Bent)	40-45	21		
43												
44												
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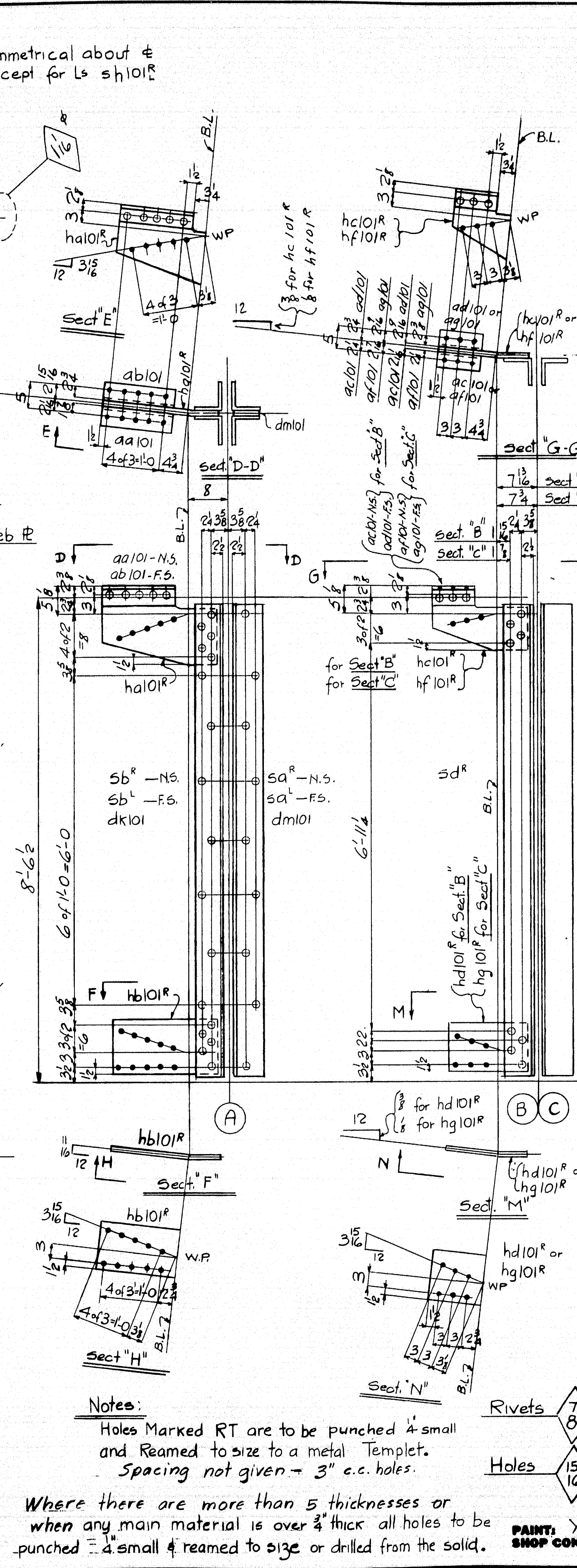
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT: A1B#1 PLANT
WORK FABRICATED AT: ELMIRA PLANT
IN CHARGE OF: HUGHES 259
DRAW. MADE BY: RRA DATE 8-16-48
DRAW. CHECKED BY: J.M. DATE 10/9/48

ORDER No. J5762 SHEET No. 101B





MARK	1 st DIV	2 ND DIV	
G2	3	2	

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES RIVER & COAST GUARD SURVEYORS

DRAWINGS MADE AT AMB #1 PLANT PLANT
 WORK FABRICATED AT ELMIRA PLANT PLANT
 IN CHARGE OF HUGHES 259
 DRAW. MADE BY RRR DATE 8-23-48
 DRAW. CHECKED BY JM DATE 10/8/48

ORDER No. J 5762 SHEET No. 102 B

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL  CORPORATION HUNTSVILLE

DRAWINGS MADE AT AMB #1 PLANT PLANT
WORK FABRICATED AT ELMIRA PLANT PLANT
IN CHARGE OF HUGHES 257
DRAW. MADE BY RRA DATE 8-29-48
DRAW. CHECKED BY Jm DATE 10/8/48

ORDER NO. J 5762 SHEET NO. 102 B

Notes:

Holes Marked RT are to be punched & small and Reamed to size to a metal Template.

Spacing not given $\rightarrow$ 3" c.c. holes.

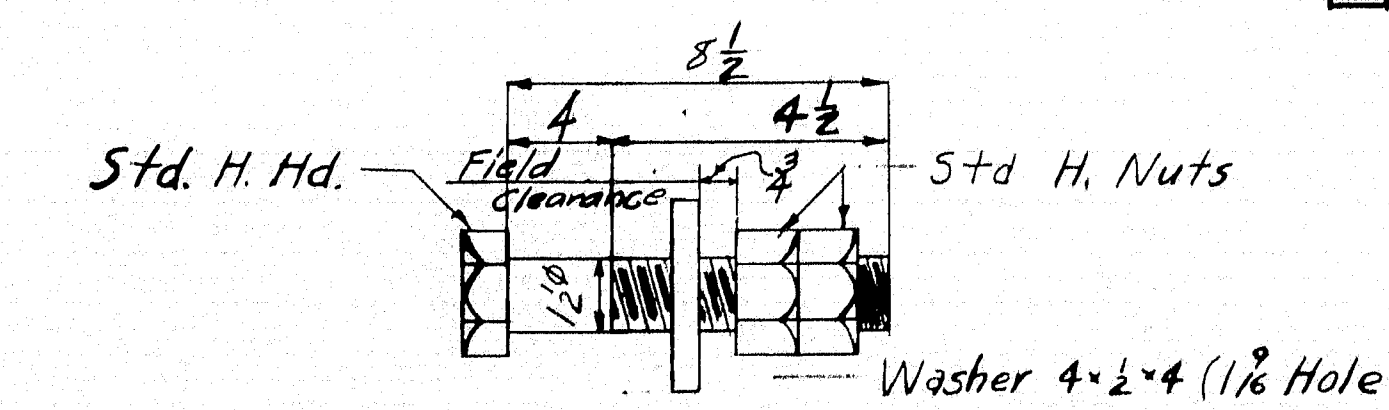
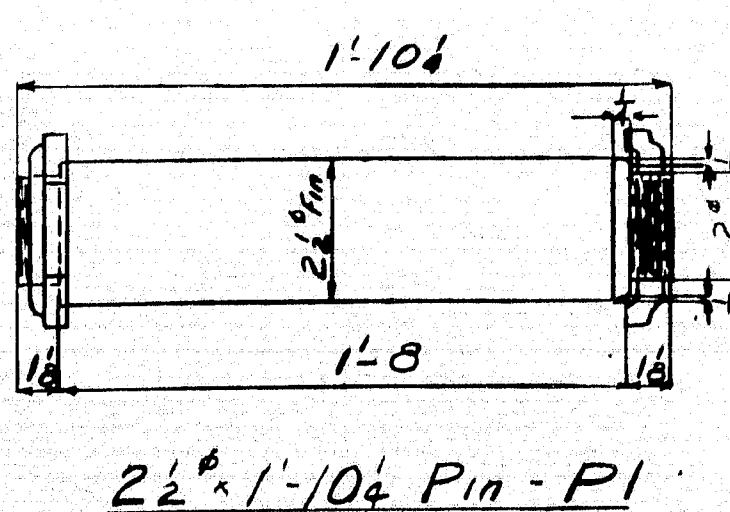
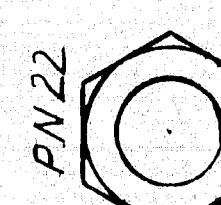
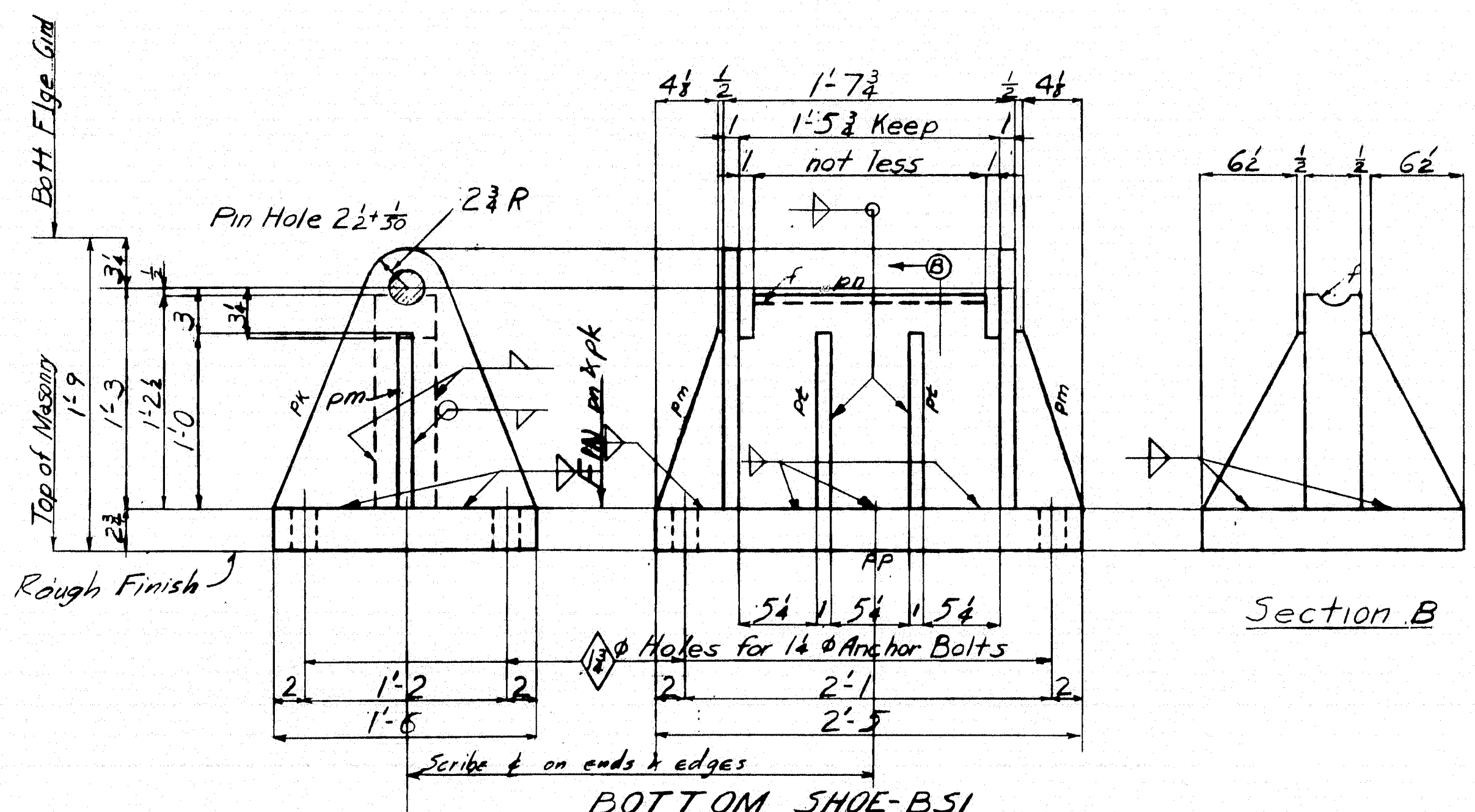
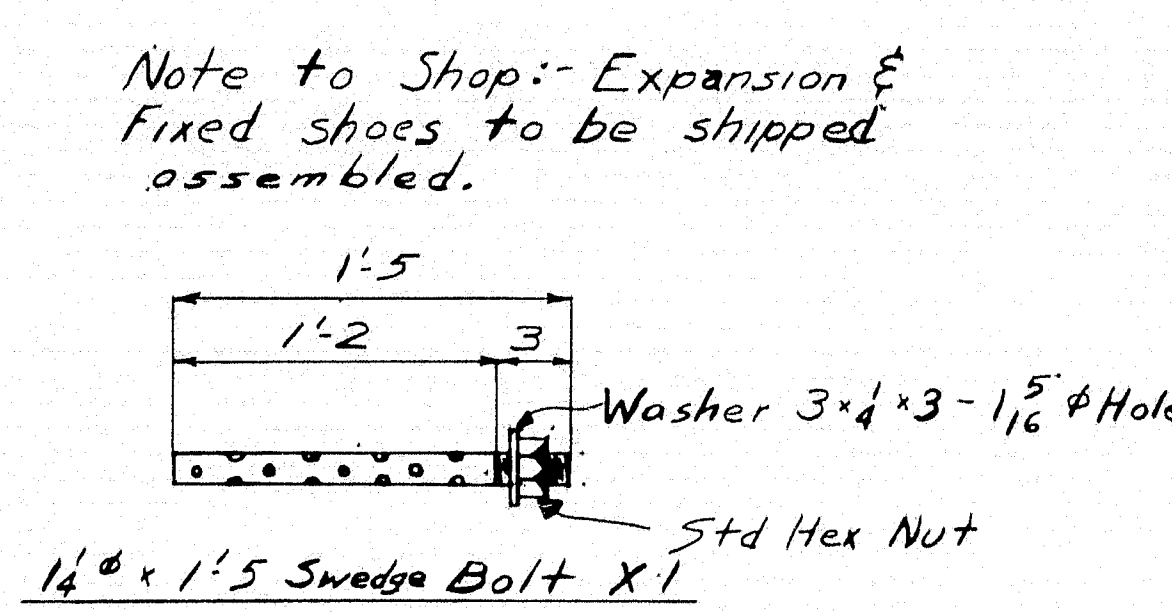
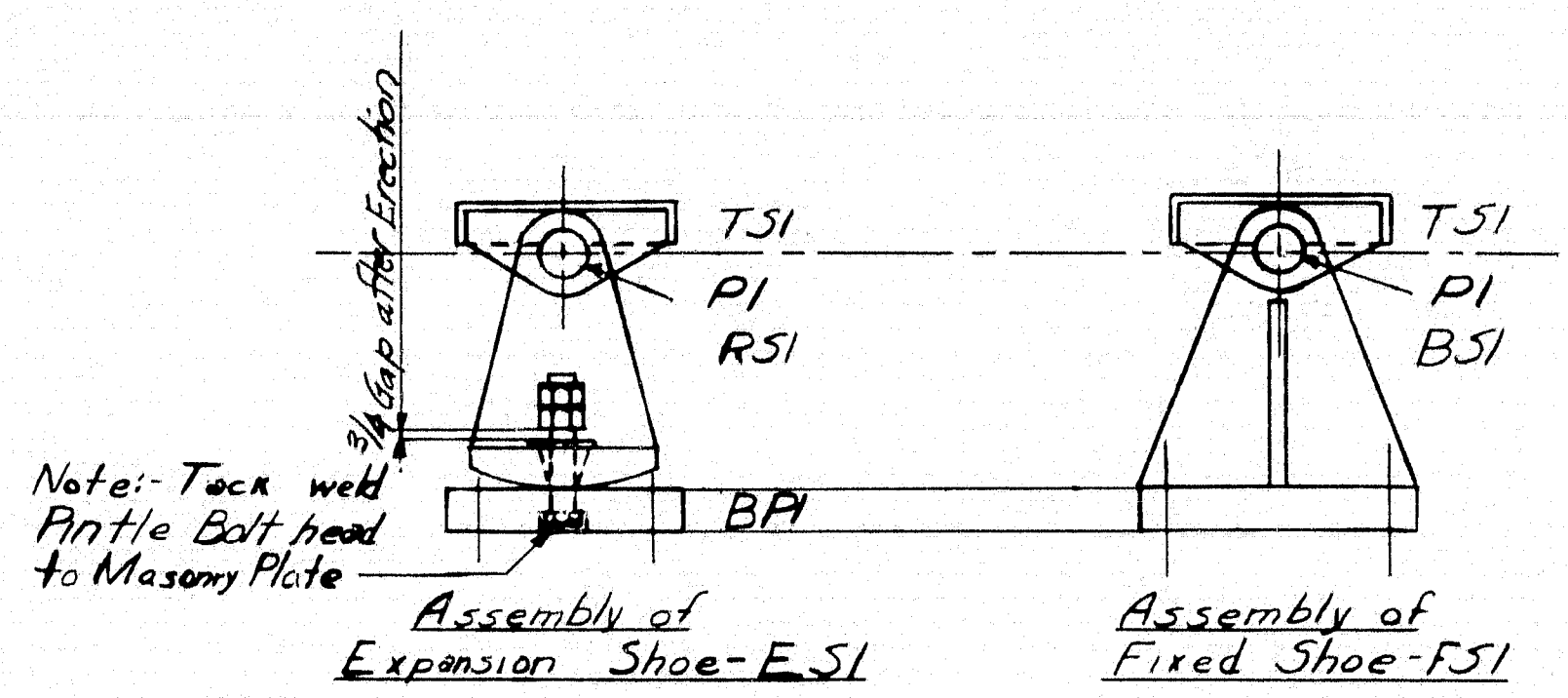
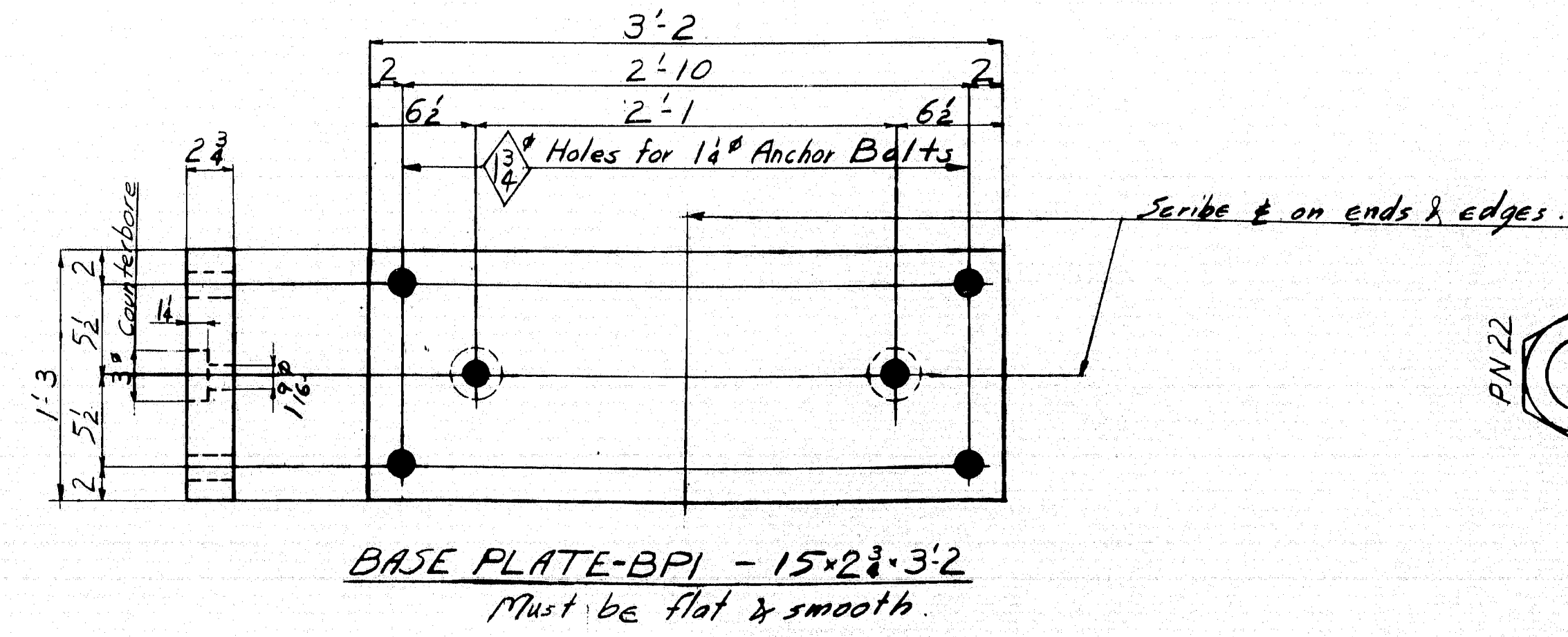
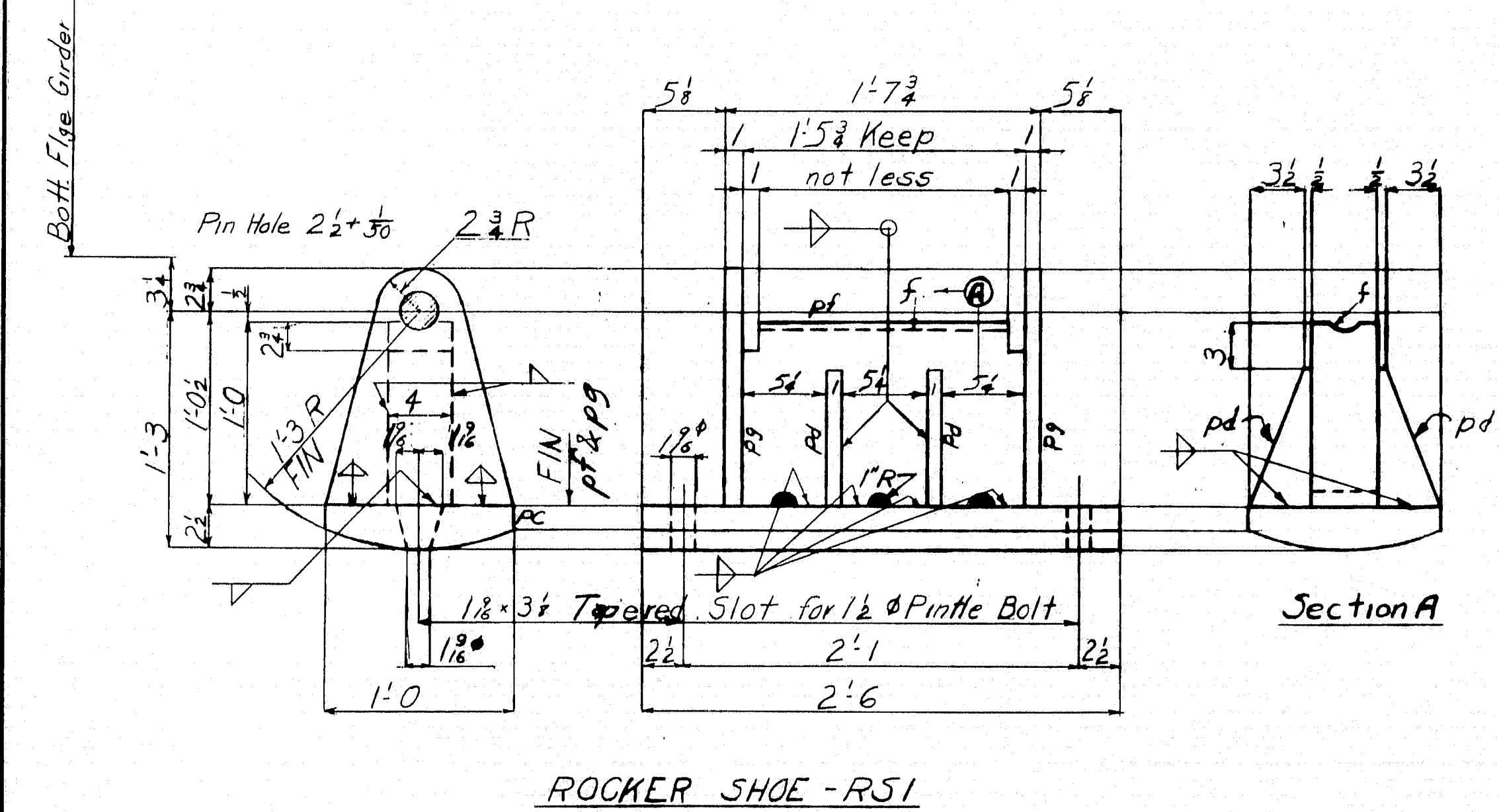
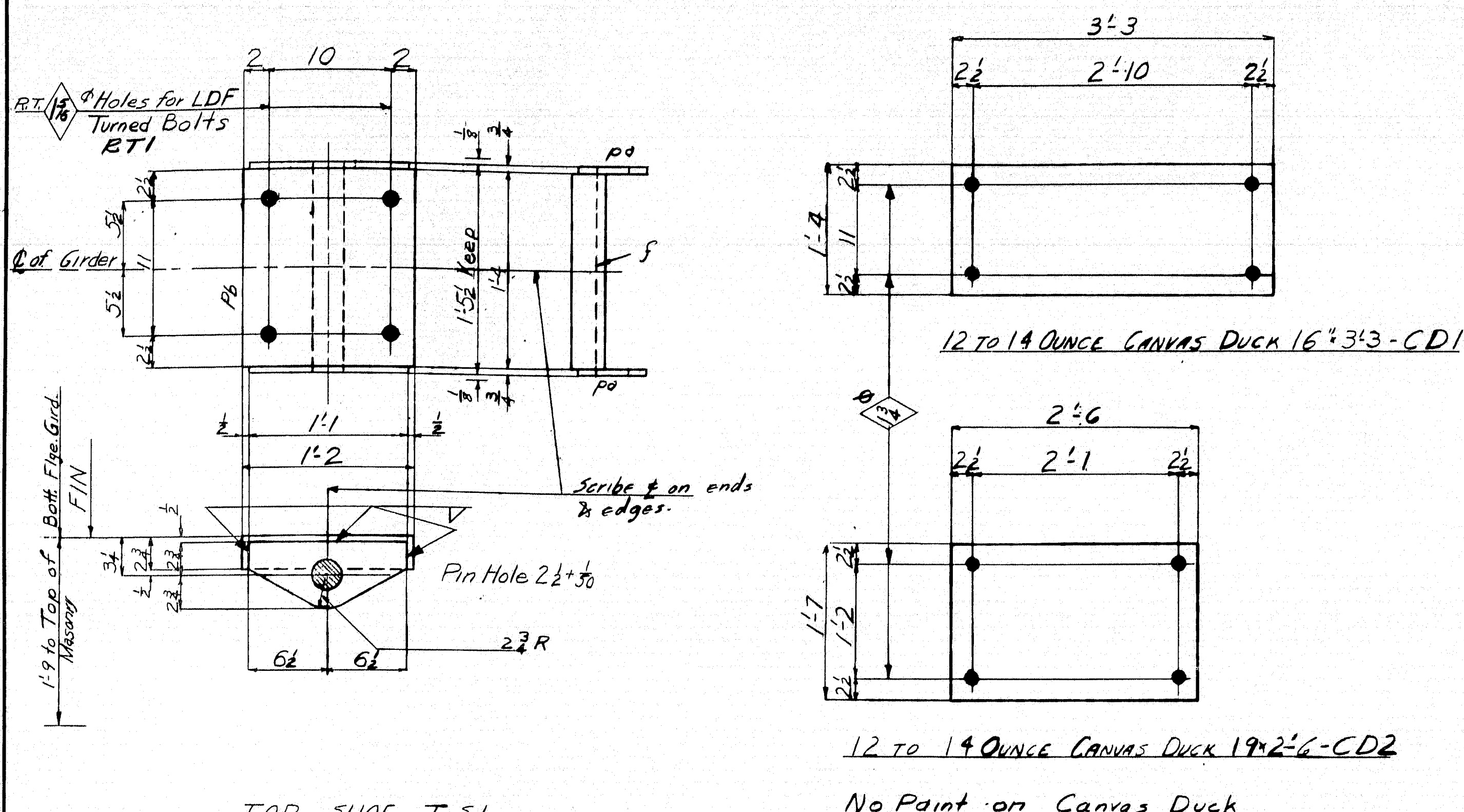
Where there are more than 5 thicknesses or when any main material is over $\frac{3}{4}$ " thick all holes to be punched $\square$ & small & reamed to size or drilled from the solid.

Rivets 

Holes  Unless Noted

PAINT: YES
SHOP CONTACT SURFACES: No

F	
E	
D	
C	
B	
X	
REVISIONS	



Shop assembled with Expansion Shoe E-S1

NOTE:
All welds 1/2" fillet
All Pins & Pinholes to have
one coat of White Lead
and tallow
LDF - Light Driving Fit

LINE	ITEM	QTY	UNIT	MATERIAL	REMARKS	ORDERED	CALCULATED
1	10	Expansion Shoes		E-S1			
2	40	20 R	5 1/2"	1 1/2"	pd		
3	20	10 R	14 2 1/2"	1 1/2"	pd		
4	10	R	12 2 1/2"	2 6"	pd		
5	40	R	9 1"	4 1/2"	pd		
6	10	R	12 4 1"	5 1/2"	pd		
7	20	R	15 1"	1 0"	pd		
8	10	R	15 2 1/2"	3 2"	pd		
9	20	BOLTS	1 1/2"	8 1/2"	Hex Hd		
10	20	NUTS	1 1/2"	4 1/2"	Hex Hd		
11	40	NUTS	1 1/2"	4 1/2"	Hex Hd		
12	20	10 PINS	2 1/2"	1 10 1/4"	P1		
13	40	20 60 PINS	NUTS	AN 1/2"	AN 1/2"		
14	10	FIXED SHOES		F-S1			
15	20	R	12 1"	1 6"	pd		
16	20	R	12 1"	4 1/2"	pd		
17	10	R	18 2 1/2"	2 5"	pd		
18	40	R	12 1"	7 1/2"	pd		
19	20	R	12 1"	7 1/2"	pd		
20	10	R	12 1"	7 1/2"	pd		
21	10	R	12 1"	7 1/2"	pd		
22	10	R	12 1"	7 1/2"	pd		
23	10	R	12 1"	7 1/2"	pd		
24	10	R	12 1"	7 1/2"	pd		
25	10	R	12 1"	7 1/2"	pd		
26	10	R	12 1"	7 1/2"	pd		
27	10	R	12 1"	7 1/2"	pd		
28	10	R	12 1"	7 1/2"	pd		
29	10	R	12 1"	7 1/2"	pd		
30	10	R	12 1"	7 1/2"	pd		
31	10	R	12 1"	7 1/2"	pd		
32	10	R	12 1"	7 1/2"	pd		
33	10	R	12 1"	7 1/2"	pd		
34	10	R	12 1"	7 1/2"	pd		
35	10	R	12 1"	7 1/2"	pd		
36	10	R	12 1"	7 1/2"	pd		
37	10	R	12 1"	7 1/2"	pd		
38	10	R	12 1"	7 1/2"	pd		
39	10	R	12 1"	7 1/2"	pd		
40	10	R	12 1"	7 1/2"	pd		
41	10	R	12 1"	7 1/2"	pd		
42	10	R	12 1"	7 1/2"	pd		
43	10	R	12 1"	7 1/2"	pd		
44	10	R	12 1"	7 1/2"	pd		
45	10	R	12 1"	7 1/2"	pd		
46	10	R	12 1"	7 1/2"	pd		
47	10	R	12 1"	7 1/2"	pd		
48	10	R	12 1"	7 1/2"	pd		
49	10	R	12 1"	7 1/2"	pd		
50	10	R	12 1"	7 1/2"	pd		
51	10	R	12 1"	7 1/2"	pd		
52	10	R	12 1"	7 1/2"	pd		
53	10	R	12 1"	7 1/2"	pd		
54	10	R	12 1"	7 1/2"	pd		
55	10	R	12 1"	7 1/2"	pd		
56	10	R	12 1"	7 1/2"	pd		
57	10	R	12 1"	7 1/2"	pd		
58	10	R	12 1"	7 1/2"	pd		
59	10	R	12 1"	7 1/2"	pd		
60	10	R	12 1"	7 1/2"	pd		
61	10	R	12 1"	7 1/2"	pd		
62	10	R	12 1"	7 1/2"	pd		
63	10	R	12 1"	7 1/2"	pd		
64	10	R	12 1"	7 1/2"	pd		

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

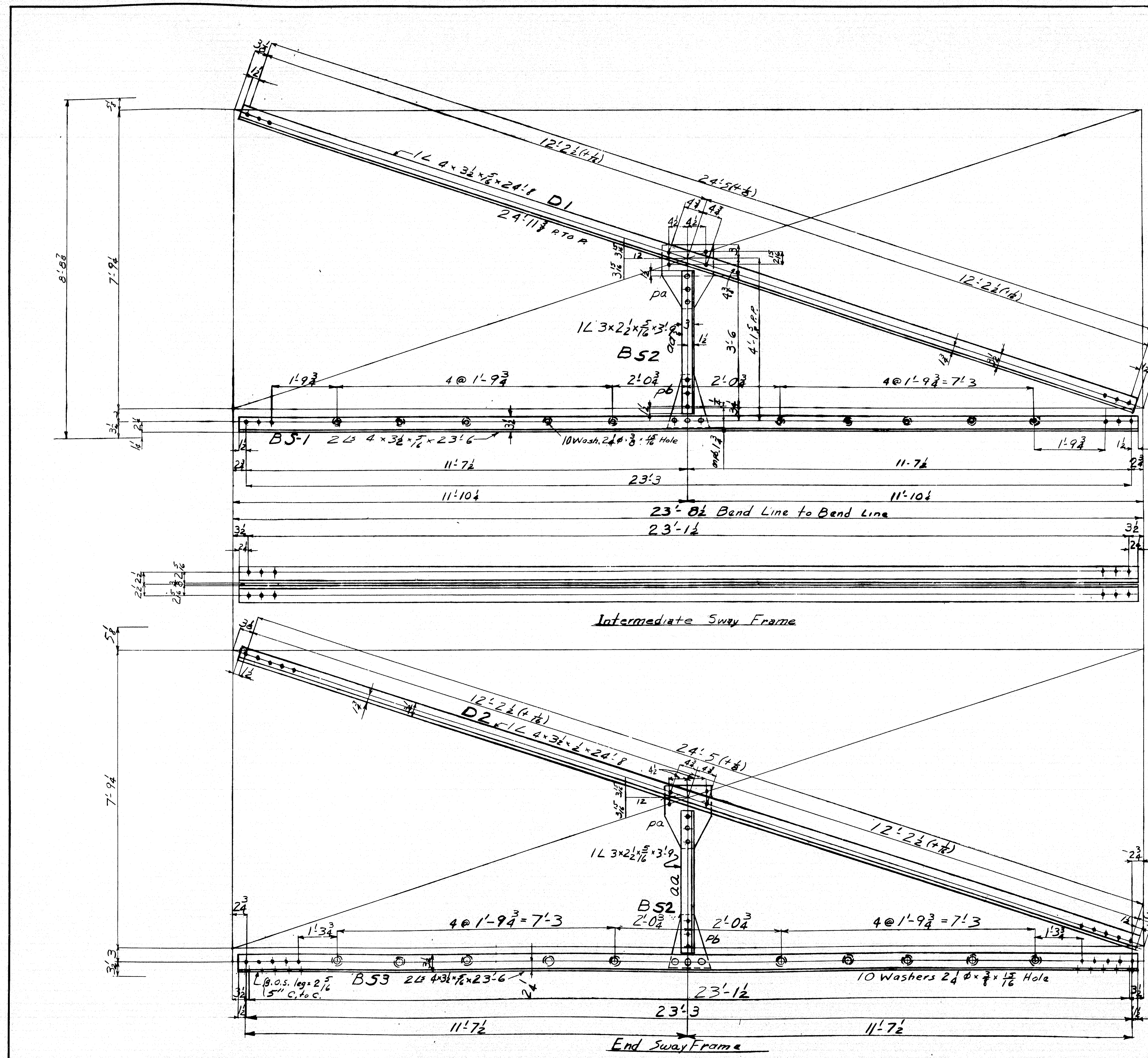
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Ambridge PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes - #1 Ext 259
DRAW. MADE BY T.L. DATE 8/16/42
DRAW. CHECKED BY FM DATE 10/6/42

ORDER NO. J5762 SHEET NO. 103

WELDING M. 103, 104, 110

51-185



LINE NO.	DWT	DWT	MATERIAL	LENGTH Feet (Inches)	ASSEMBLY MARK	REMARKS	ORDERED ITEM	CALCULATED WEIGHT FOR ONE SHOP PIECE
1								
2	12	8	20 S Truss B51					
3								
4			40 L 4 3/2 x 23 6				23-6	6
5			20 R 12 1/2 x 10 1/2 pb					S
6								
7			200 Wash 2 1/2 x 3/8 x 1/2 Hole					S
8								
9	18	12	30 Struts - B52					
10								
11			30 L 3 2 1/2 x 3 9 aa				40/45	S
12			30 R 15 1/2 x 1 0 pa					19
13								
14	24	16	40 Diagonals - D1					
15								
16			40 L 4 3/2 x 29 8				24-8	59
17								
18	12	8	20 Diagonals - D2					
19								
20			20 L 4 3/2 x 24 8				24-8	56
21								
22	6	4	10 Struts B53					
23								
24			20 L 4 3/2 x 23 6				23-6	60
25			10 R 10 1/2 x 1 0 pb					S
26			100 Wash 2 1/2 x 3/8 x 1/2 Holes					S
27								
28								
29								
30								
31								
32								
33								
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62								
63								
64								

Rivets $\diamond$
Holes $\diamond$

c.to c. Holes 3" unless noted
c.to c. Rivets 3" unless noted

PAINT: Yes
SHOP CONTACT SURFACES: No

F
E
D
C
B
A

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

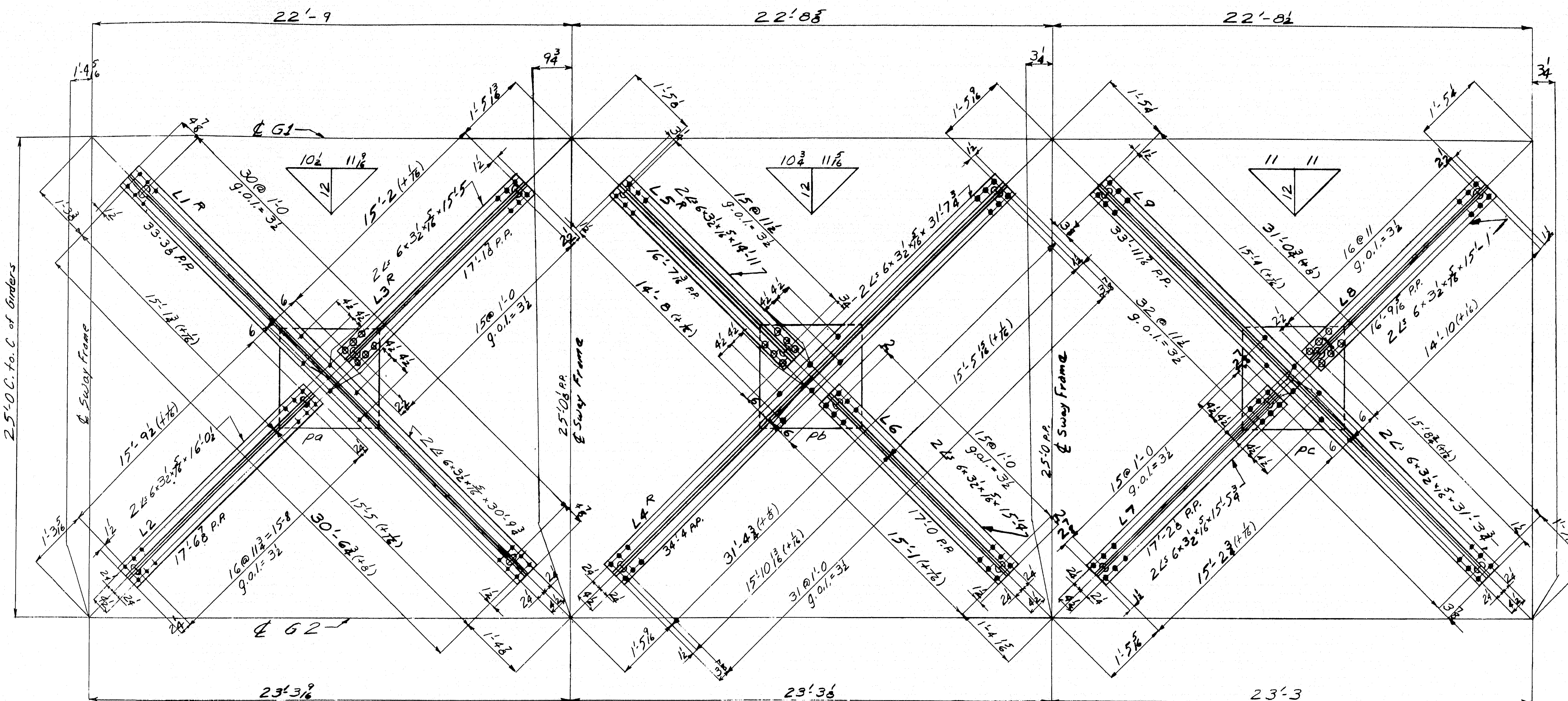
DRAWINGS MADE AT Ambridge PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes #1 Ext 259
DRAW. MADE BY TJ DATE 8/23/48
DRAW. CHECKED BY Jm DATE 10/8/48

ORDER No. J5762 SHEET No. 104

M. M.

51-186

0 1 2 3 4 5 INCHES



Bottom Chord Bracing

LINE	ITEM	MATERIAL	LENGTH	REMARKS	ORDERED	WEIGHT	REMARKS
LINE	ITEM	SHAPE	Feet	INCHES	ITEM	Feet	INCHES
1	5	BOTTOM LATERALS - L1R					
2	5	BOTTOM LATERALS - L1L					
3	20	6 3/4 x 30 7/8	30	0	54		
4	10	BOTTOM LATERALS - L2					
5	20	6 3/4 x 30 7/8	16	0	51		
6	5	BOTTOM LATERALS - L3R					
7	5	BOTTOM LATERALS - L3L					
8	20	6 3/4 x 30 7/8	15	5	51		
9	10	24 x 1 1/2 Pa.			40/45	6	
10	5	BOTTOM LATERALS - L4R					
11	5	BOTTOM LATERALS - L4L					
12	20	6 3/4 x 30 7/8	31	7 1/2	52		
13	5	BOTTOM LATERALS - L5R					
14	5	BOTTOM LATERALS - L5L					
15	20	6 3/4 x 30 7/8	14	11	51		
16	10	24 x 1 1/2 Pa.			40/45	6	
17	10	BOTTOM LATERALS - L6					
18	20	6 3/4 x 30 7/8	15	4	51		
19	5	BOTTOM LATERALS - L7					
20	10	6 3/4 x 30 7/8	15	5 1/2	51		
21	5	BOTTOM LATERALS - L8					
22	10	6 3/4 x 30 7/8	15	1	51		
23	5	24 x 1 1/2 Pa.			40/45	6	
24	5	BOTTOM LATERALS - L9					
25	10	6 3/4 x 30 7/8	31	3 1/2	53		

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Ambridge PLANT
WORK FABRICATED AT Elmira PLANT
IN CHARGE OF Hughes-No.1 EXT 259
DRAW. MADE BY T.L. DATE 9/24/48
DRAW. CHECKED BY J.W. DATE 10/11/48

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REVISIONS	

ORDER No. J5762 SHEET No. 106

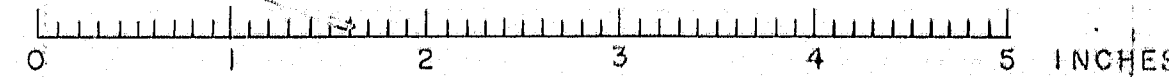
Mr. B.R.

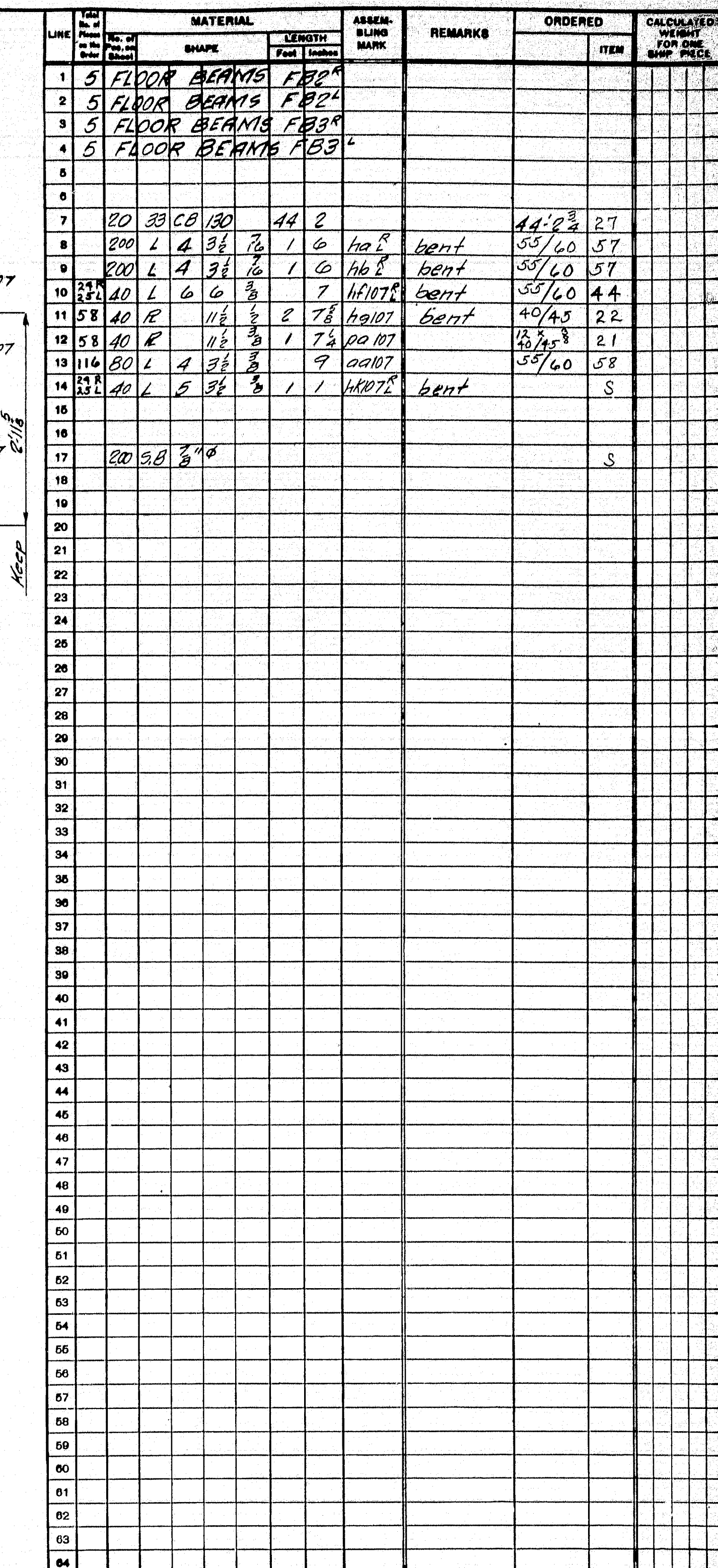
51-188

RIVETS $\frac{7}{8}$ "
HOLES $\frac{15}{16}$ "

Spacing not shown 3" on centers

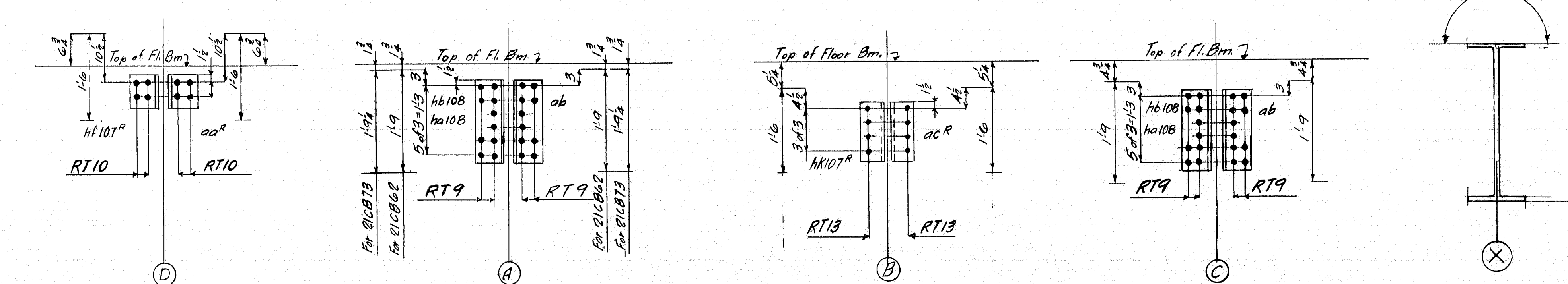
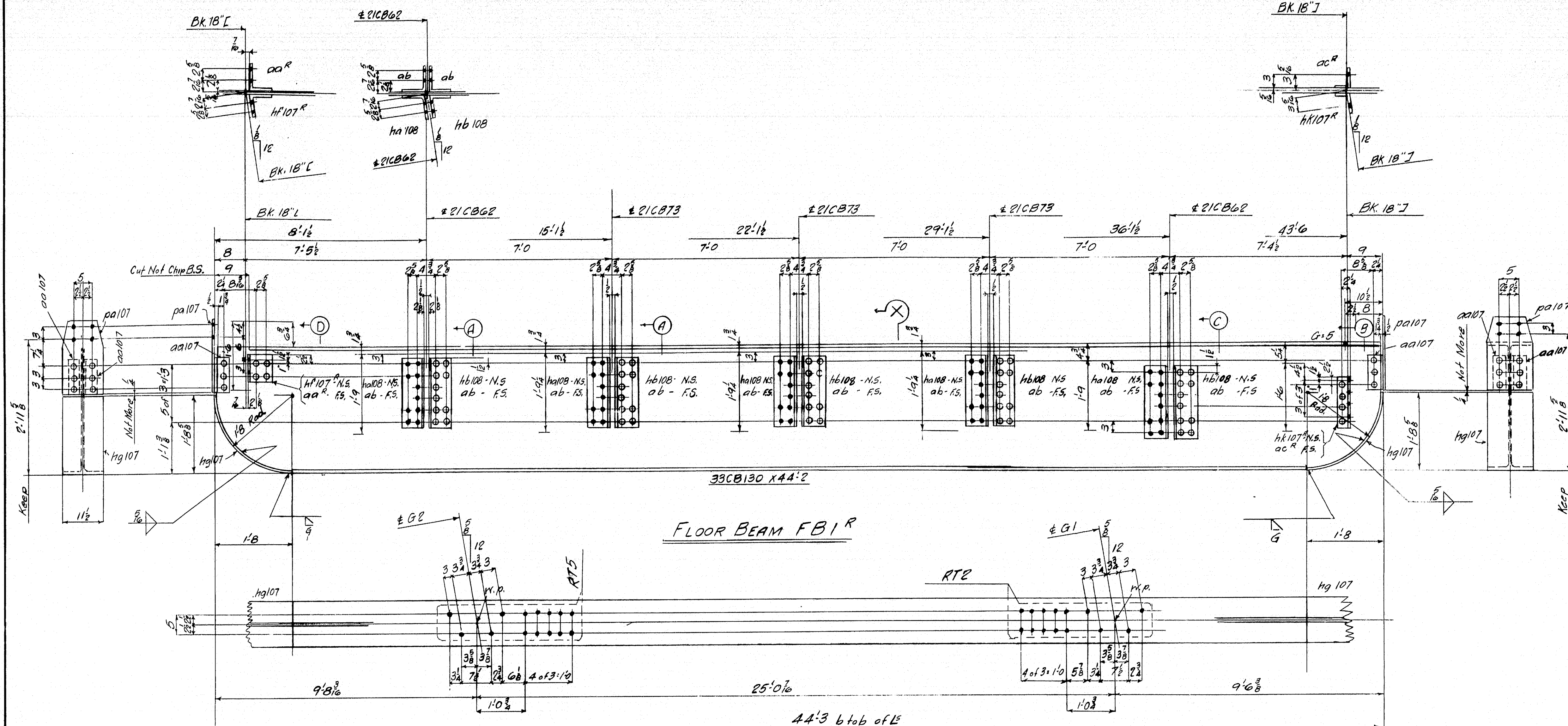
PAINT: Yes
SHOP CONTACT SURFACES: No





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REVISION



NOTES
 Holes marked R1 to be punched
 1/4" small and reamed to size to a
 metal template
 Rivets 7/8"
 Holes 15/16"
 All main material over
 3/8" thick to be punched -
 1/4" small & reamed to size
 or drilled from the solid.
 PAINT: Yes except as noted
 SHOP CONTACT SURFACES: No

LINE	ITEM	QUANTITY	UNIT	MATERIAL	SHAPE	LENGTH	ASSEMBLY	REMARKS	ORDERED	ITEM	WEIGHT	FOR ONE	PIECE
1	4			FLOOR BEAMS	FB1								
2	4			FLOOR BEAMS	FB1								
3	8			33CB130	44.2								
4	45			40 L	6 6	3/4	1	6	h6108	beam	55/60	44	
5	45			40 L	6 6	3/4	1	6	h6108	beam	55/60	44	
6	38			38 L	4 3 1/2	3/4	9	9	aa107				
7													
8	8			8 L	5 3 1/2	3/4	1	1	h6108				
9	8			8 L	6 6	3/4	7	7	h6108				
10	10			10 R	1 1/2	3/4	2	7 1/2	hg107				
11	16			16 R	1 1/2	3/4	1	7 1/2	aa107				
12													
13	8			8 L	6 6	3/4	7	7	aa107		55/60	44	
14	80			80 L	6 6	3/4	1	6	aa		55/60	44	
15	8			8 L	5 3 1/2	3/4	1	1	aa107				
16													
17	80			80	3 3 1/2	3/4							
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FLOOR BEAMS FB1
 State of Maine
 State Highway Commission
 Bridge Division
 Bridge over Kennebec River
 Augusta, Maine
 Bridge - 5196 Project F1, U1-389 (2)

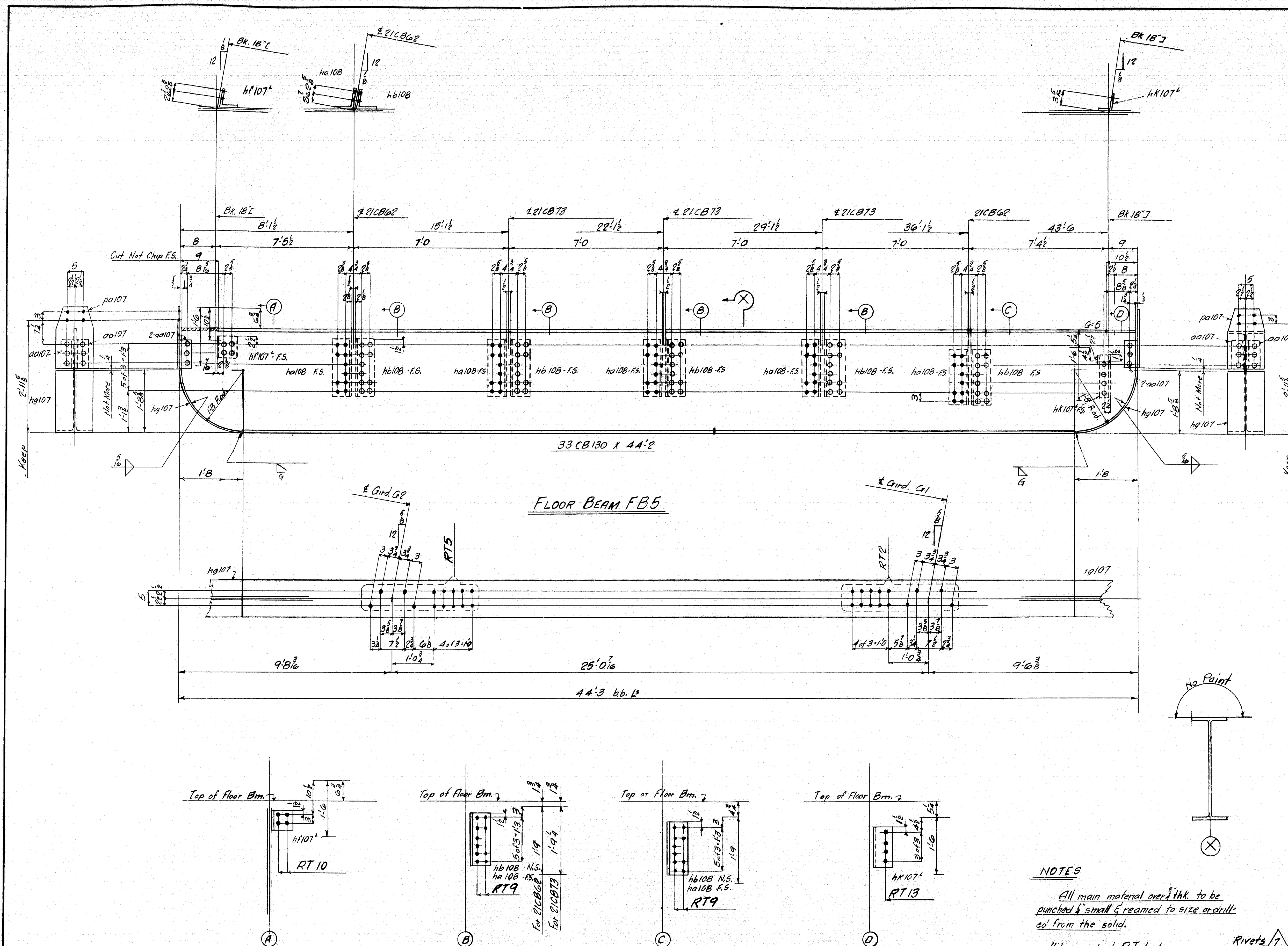
AMERICAN BRIDGE COMPANY
 UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT Amb. PLANT
 WORK FABRICATED AT Elmira PLANT
 IN CHARGE OF Hughes EXT. 259
 DRAW. MADE BY FLV DATE 8-27-48
 DRAW. CHECKED BY JW DATE 10/12/48

ORDER No. J8762 SHEET No. 108

Welding: Yes
 Rivets: 7/8"
 Holes: 15/16"

REVISIONS



NOTES

All main material over 1/2" thick to be punched & small & reamed to size or drilled from the solid.

Holes marked RT to be punched & small and reamed to size to a metal template.

Rivets 7/8" Dia.
Holes 15/16" Dia.

PAINT: Yes except as noted
SHOP CONTACT SURFACES: No

Welding: Yes

FLOOR BEAM-FB5
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

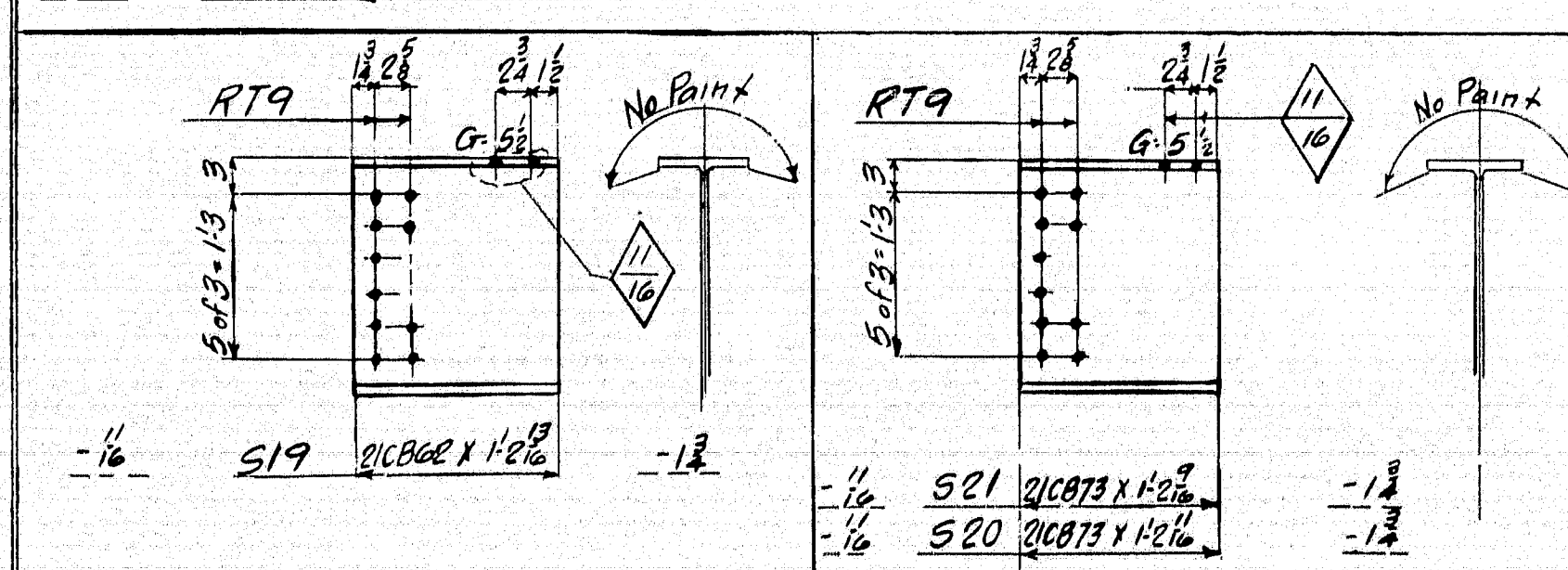
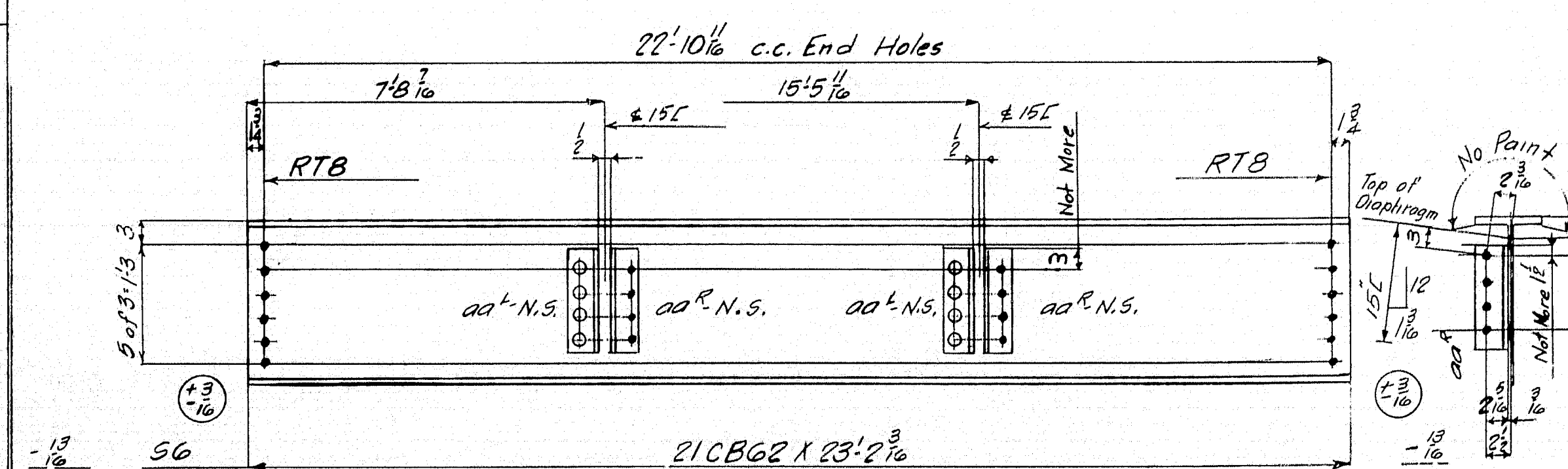
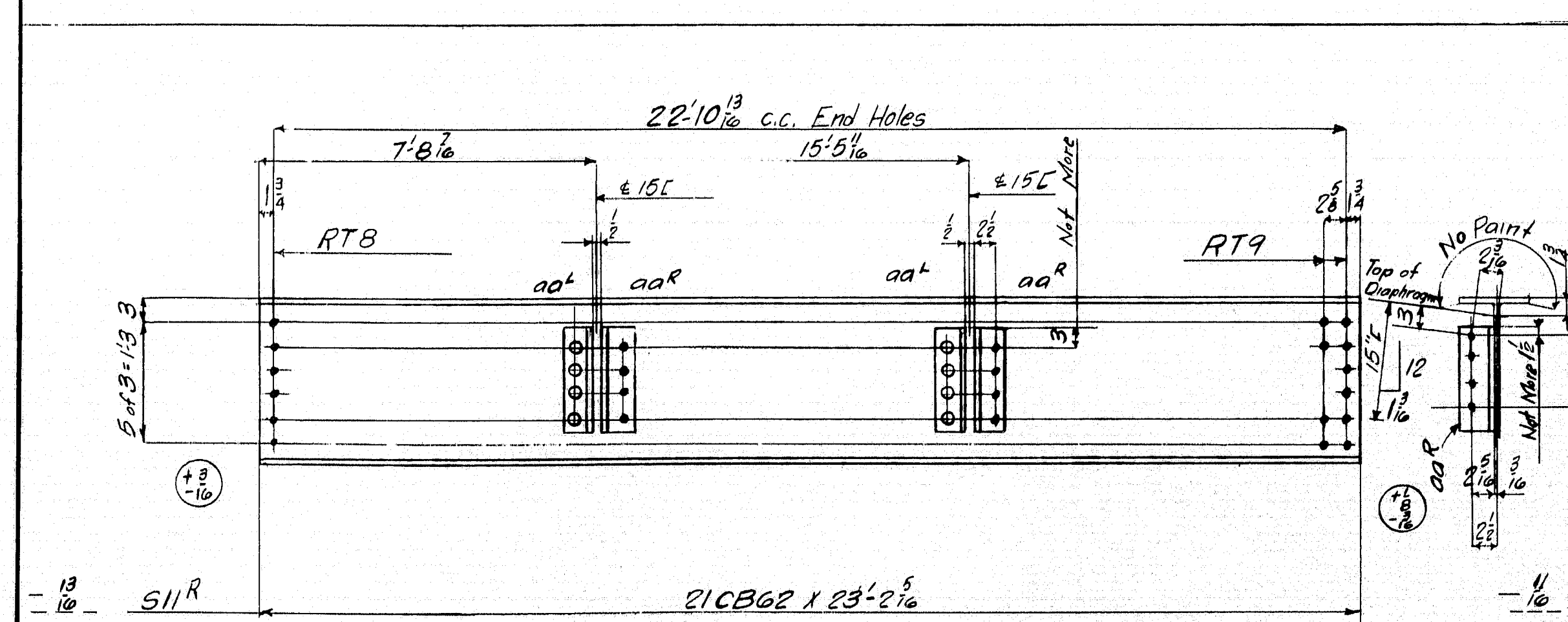
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT: Amb. PLANT
WORK FABRICATED AT: Elmira PLANT
IN CHARGE OF: Hughes Ext. 259
DRAW. MADE BY: H.V. DATE: 9-1-48
DRAW. CHECKED BY: J.W. DATE: 10/1/48

ORDER NO. J5762 SHEET NO. 109

51-191

51-191



NOTE
Holes marked RT to
be punched $\frac{1}{8}$ " small and
reamed to size to a
metal templet.

Rivets $\begin{array}{|c|} \hline 7 \\ \hline 8 \\ \hline \end{array}$

Holes $\begin{array}{|c|} \hline 15 \\ \hline 16 \\ \hline \end{array}$ unless noted

PAINT: *Yes - Except As Noted*
SHOP CONTACT SURFACES: */*

LINE	Tol. Pos. or Neg. of this Sheet	MATERIAL		ASSEMBLY MARK	REMARKS	ORDERED		CALCULATED WEIGHT FOR ONE SHOP PIECE
		SHAPE	LENGTH Feet inches				ITEM	
1								
2								
3								
4	15	21	CB 73	22	8 1/2	53	22-8 1/2	31
5								
6	10	21	CB 73	22	10 1/2	54	22-10 1/2	30
7	5	21	CB 73	22	10 1/2	55	22-10 1/2	30
8	15	21	CB 73	23	0 1/2	55	23-0 1/2	29
9								
10	9	21	CB 73	22	8 1/2	58	22-8 1/2	31
11								
12	9	21	CB 73	22	10 1/2	59	22-10 1/2	30
13								
14	9	21	CB 73	23	0 1/2	510	23-0 1/2	29
15	5	21	CB 68	23	2 1/2	511R	23-2 1/2	32
16	4	21	CB 68	23	2 1/2	511L	23-2 1/2	32
17	96	36	L A 3 1/2 3/8	1	1 1/2	512R	53-60	58
18	5	21	CB 68	22	7	512R	22-7	33
19	4	21	CB 68	22	7	512L	22-7	33
20	96	36	L A 3 1/2 3/8	1	1	512L	53-60	58
21								
22								
23	15	21	CB 62	22	6 1/2	52	22-7	33
24	60	L			06 1/2			
25								
26	15	21	CB 62	23	2 1/2	56	23-2 1/2	32
27	60	L			06 1/2			
28								
29	8	21	CB 62	1	2 1/2	519	CF 21-8 1-2 1/2	34
30								
31	8	21	CB 62	1	2 1/2	518	CF 21-8 1-2 1/2	34
32	32	16	L A 4 1/2	6	00		53-60	55
33	10	58	5/8 1/4					S
34								
35	8	21	CB 73	1	2 1/2	521	CF 31-8 1-2 1/2	28
36								
37	8	21	CB 73	1	2 1/2	520	CF 31-8 1-2 1/2	28
38	A	18	C 42.7	1	3 1/2	524R	CF 22-4 1-3 1/2	37
39	A	18	L 42.7	1	3 1/2	524L	CF 22-4 1-3 1/2	37
40								
41	8	18	C 42.7	1	2 1/2	523	CF 31-8 1-3 1/2	37
42								
43	8	21	CB 73	1	3 1/2	522	CF 31-8 1-2 1/2	28
44	10	L A 4 1/2		6	00			S
45	16	58	5/8 1/4					
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STRINGERS 52-53, 56, 58-510, 511^R, 512^R, 518-52

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2

AMERICAN BRIDGE COMPANY
UNION BRIDGE STEEL CORPORATION MEMBER

DRAWINGS MADE AT Amb #1 PLAN

WORK FABRICATED AT Elmira PLAN 11-1-5-1-250

IN CHARGE OF Hughes - Ext. 259

DRAW. MADE BY H.V. DATE 9-8-48
Thos 12/1/48

DRAW. CHECKED BY Jm DATE 10/14/40

ORDER No. **1** SHEET No.

ORDER NO.	SHEET NO.
J 5762	110

59162	110
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107 51-192

107

[illegible][illegible][illegible][illegible]

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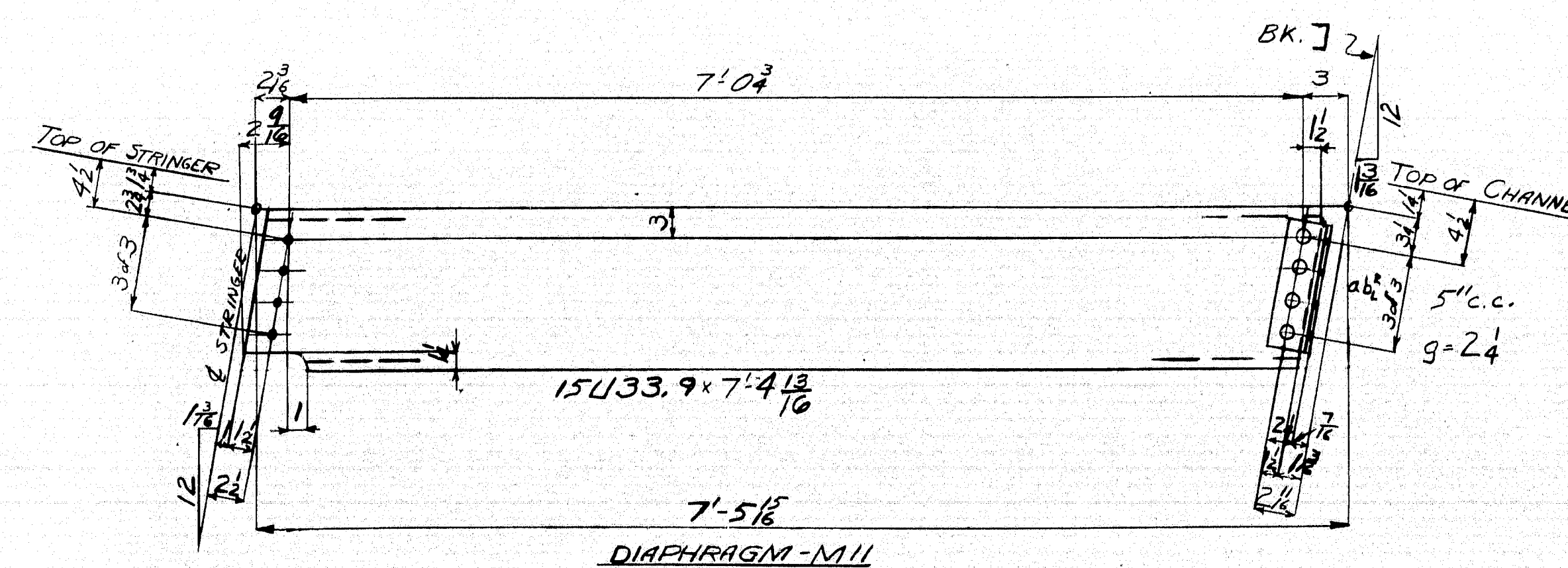
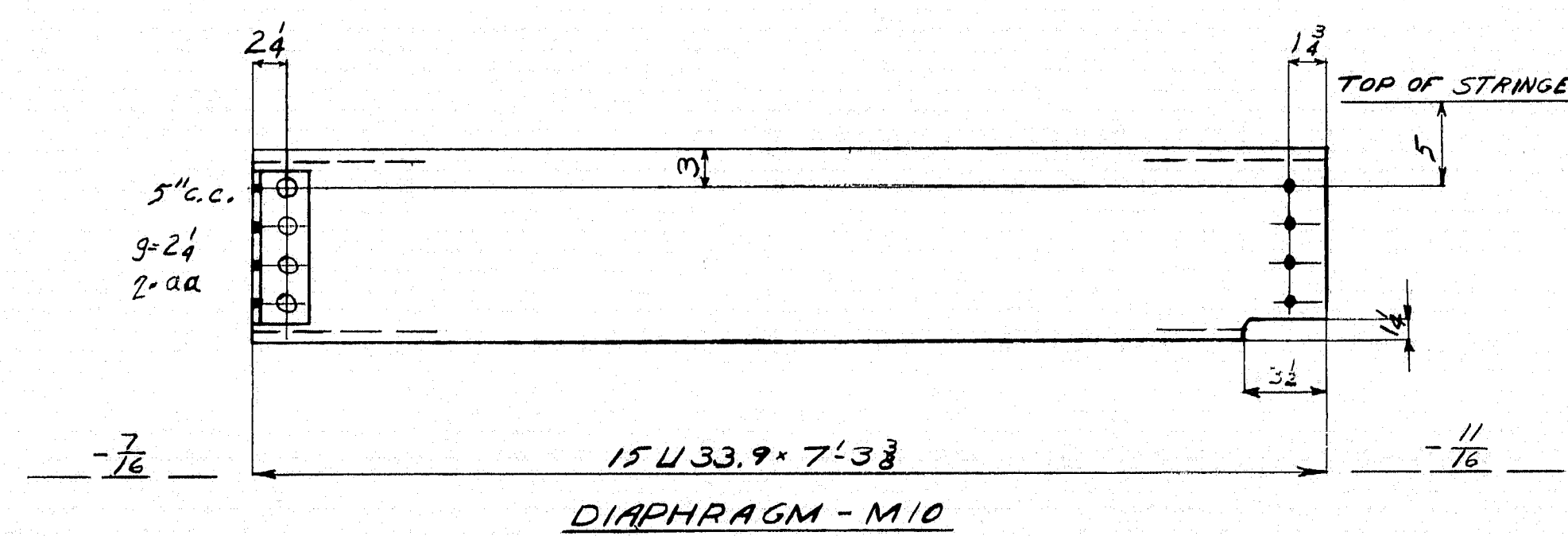
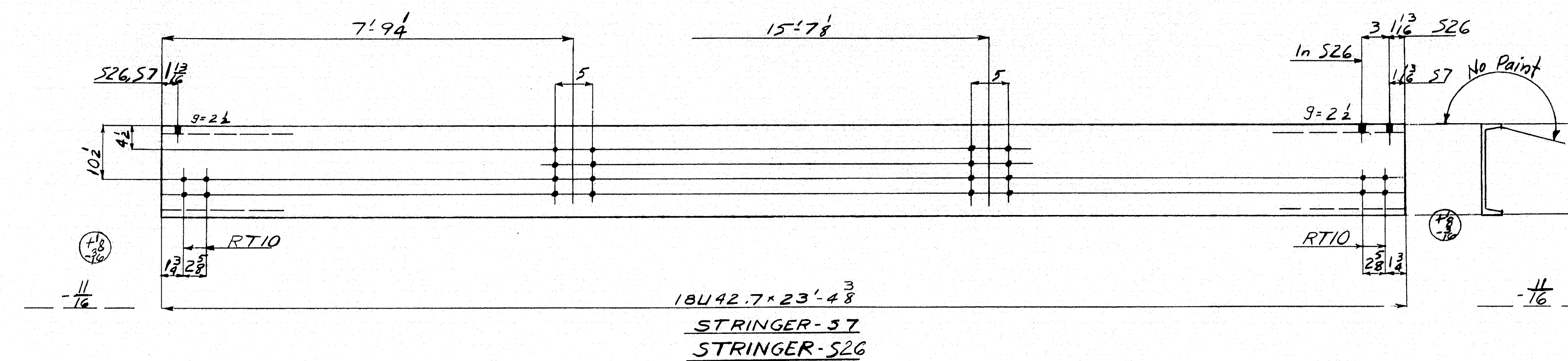
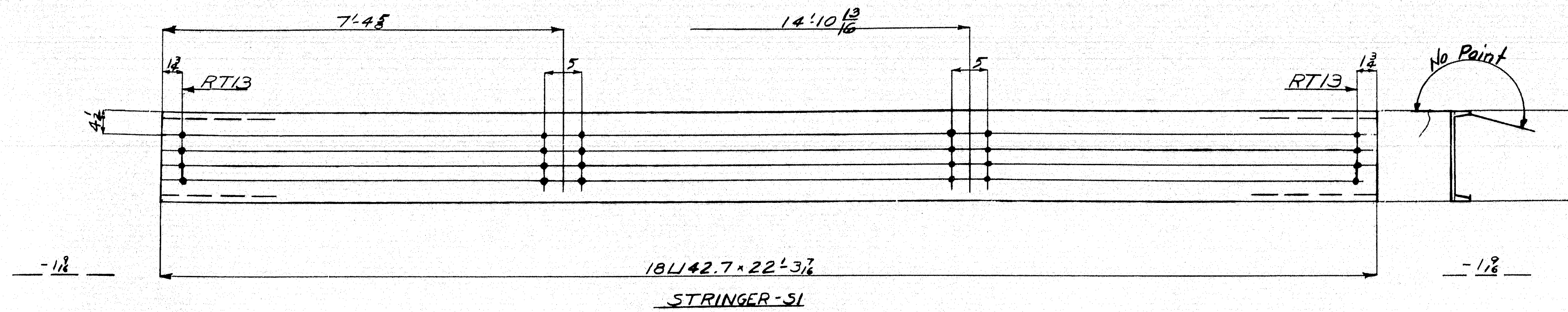
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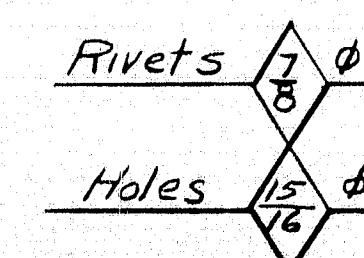
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Div 1	Div 2	LINE	ITEM	QUANTITY	UNIT	REMARKS	ORDERED	ITEM	QUANTITY	UNIT	REMARKS
15	10	2	25 STRINGERS - S1								
		4	25 18U42.7	22 3/4					22 3/4	38	
14	10	6	24 STRINGERS - S7								
1	-	7	1 STRINGER - S26								
		8	25 18U42.7	23 4 1/8					23-4 1/8	36	
30	20	11	50 DIAPHRAGMS - M10								
		12							cf 55/60		
		13	50 15U33.9	7 3/8					7'-5 3/8	39	
		14	100 1/2 4 3/4	1 0	aa				cf 55/60	58	
30	20	17	50 DIAPHRAGMS - M11								
		18							cf 55/60		
		19	50 15U33.9	7 4 1/8					7'-5 1/4	39	
		20	100 1/2 4 3/4	1 0	ab				cf 55/60	58	



Note: Holes marked R.T. to be punched 1/4" small and reamed to size to a metal templet

PAINT: Yes except as noted. SHOP CONTACT SURFACES: No

REVISIONS
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State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)

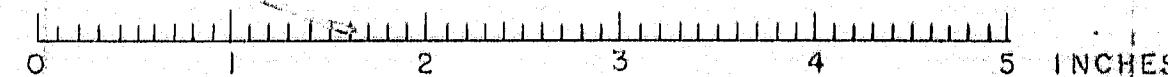
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT: Ambridge PLANT
WORK FABRICATED AT: Elmira PLANT
IN CHARGE OF: Hughes No 1-Ext 239
DRAW. MADE BY: TL DATE: 9/4/48
DRAW. CHECKED BY: JM DATE: 10/14/48

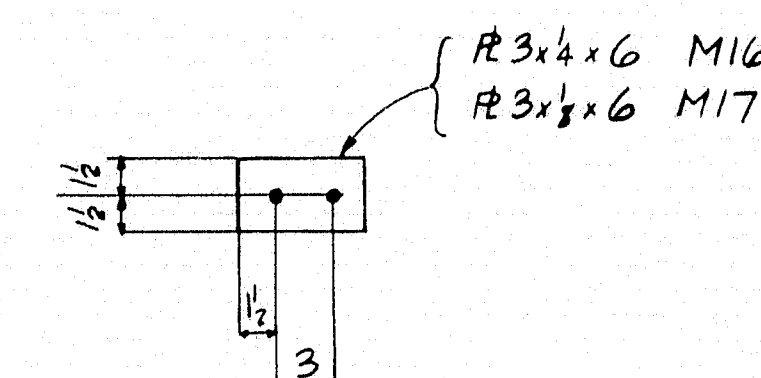
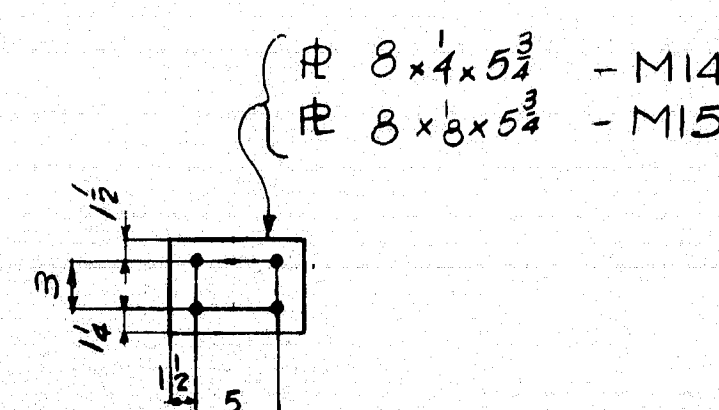
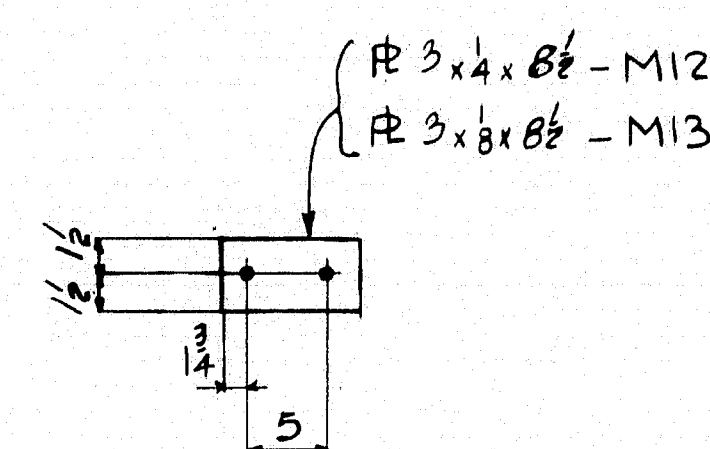
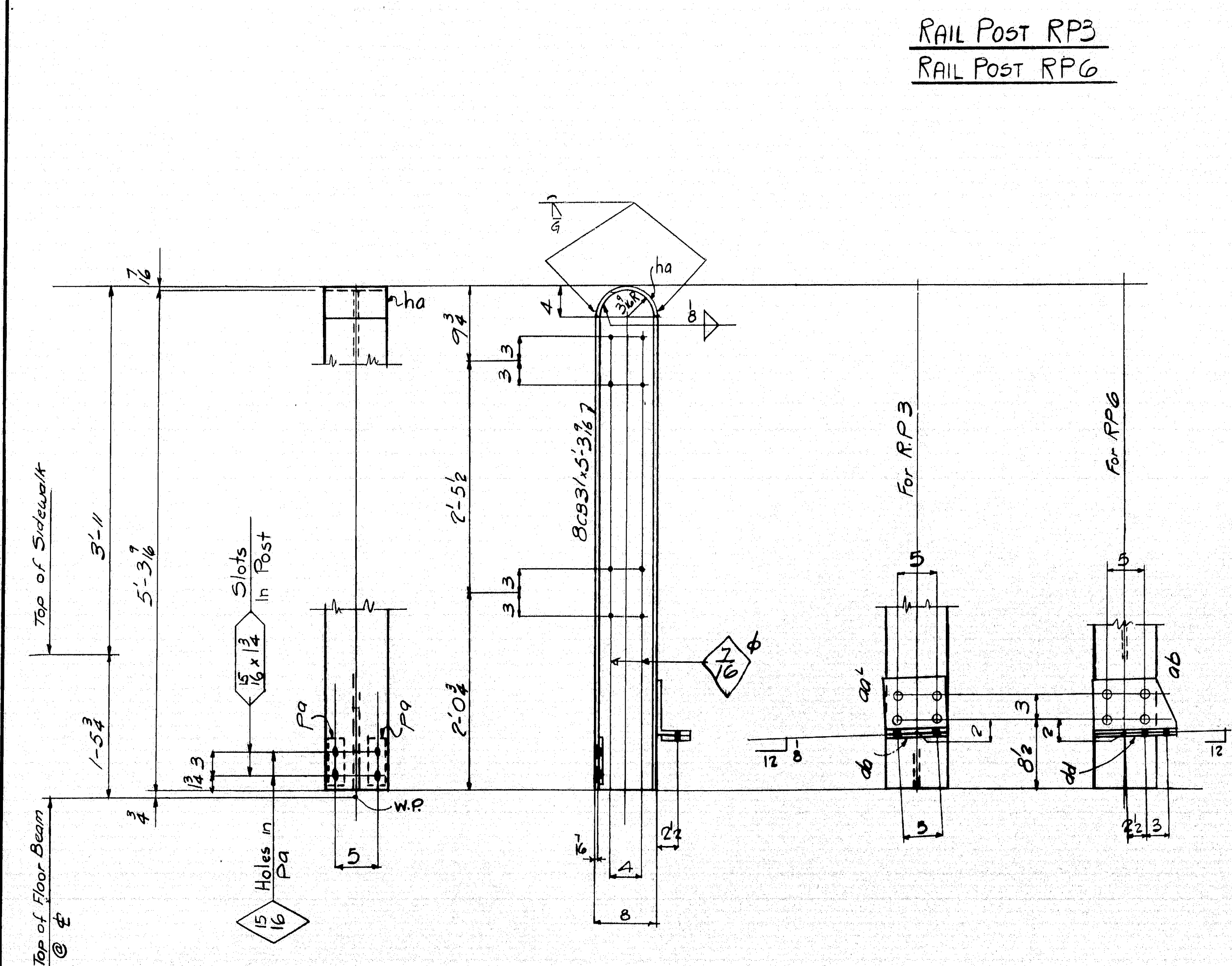
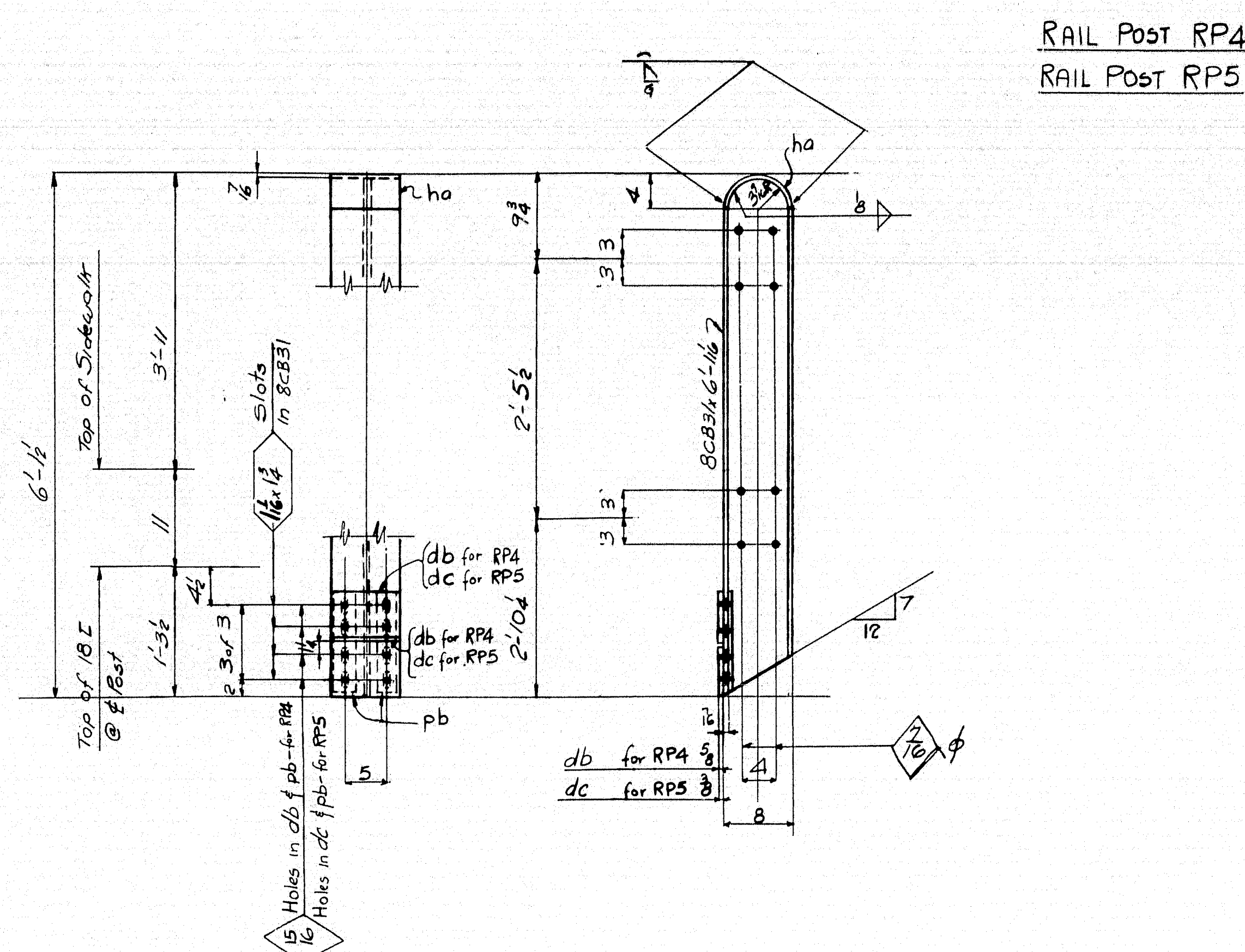
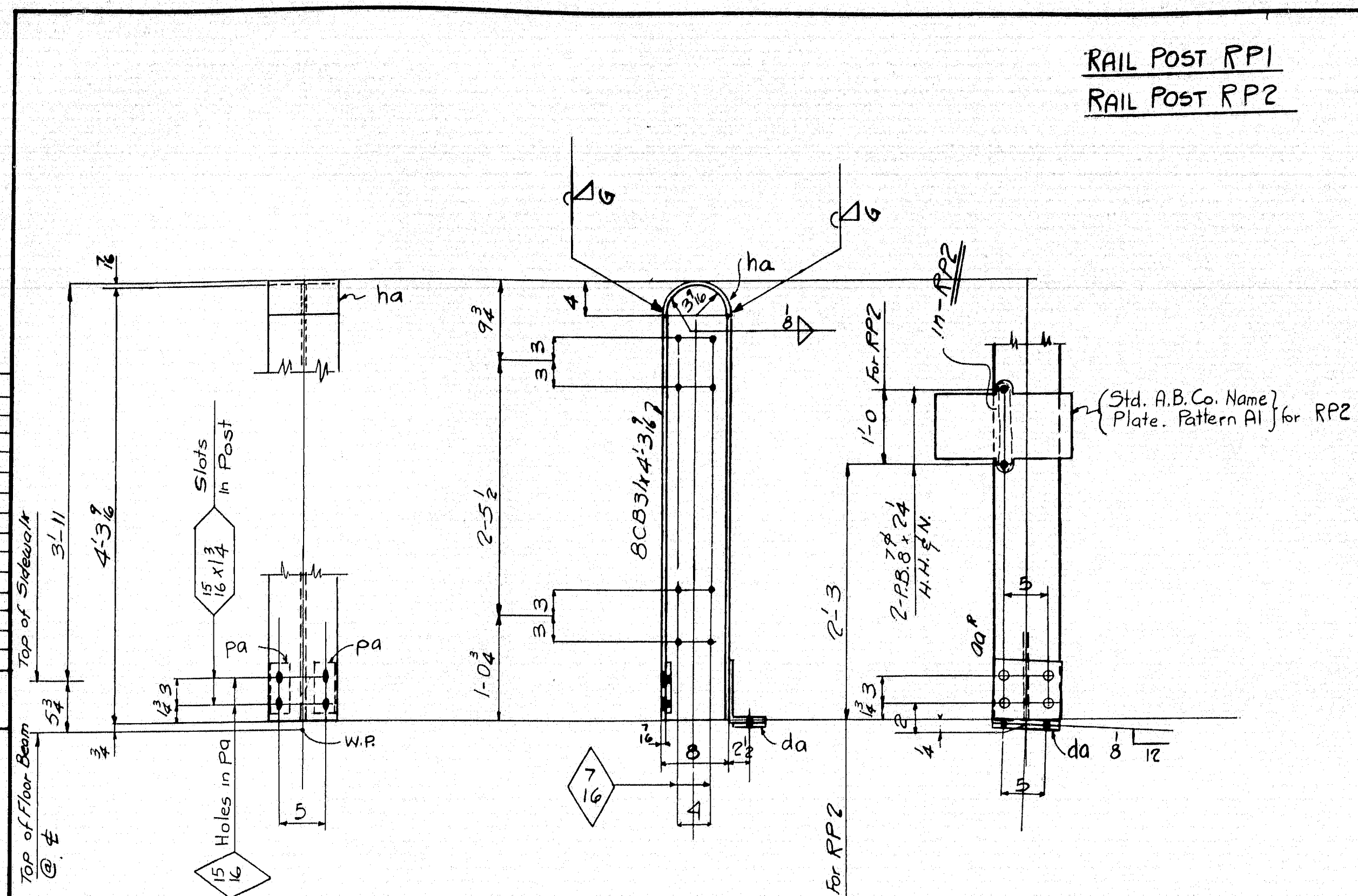
ORDER No. J5762 SHEET No. 111

106

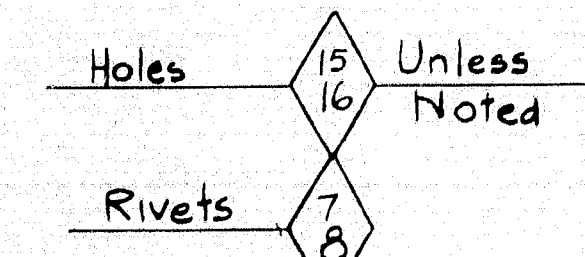
51-193



a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26



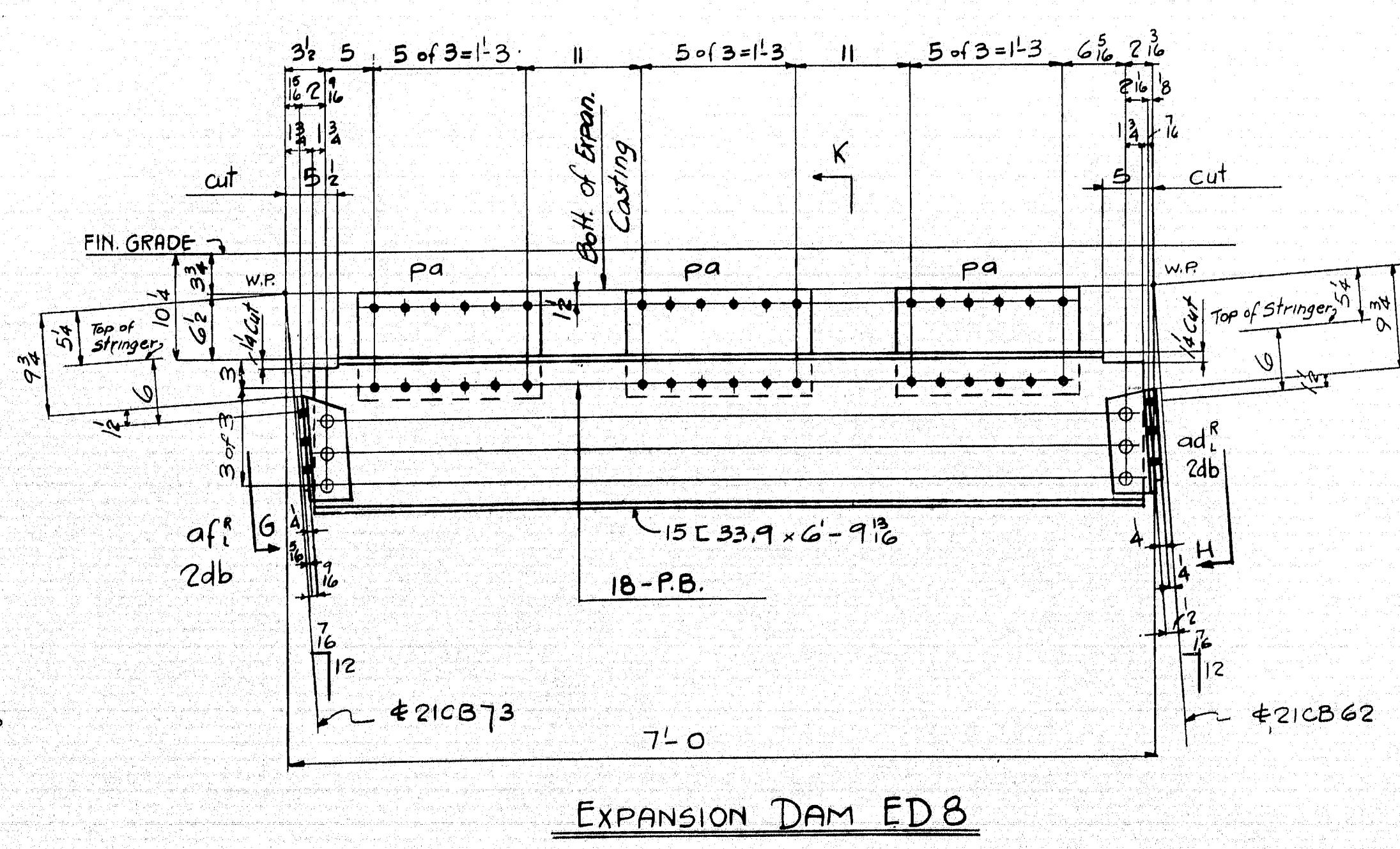
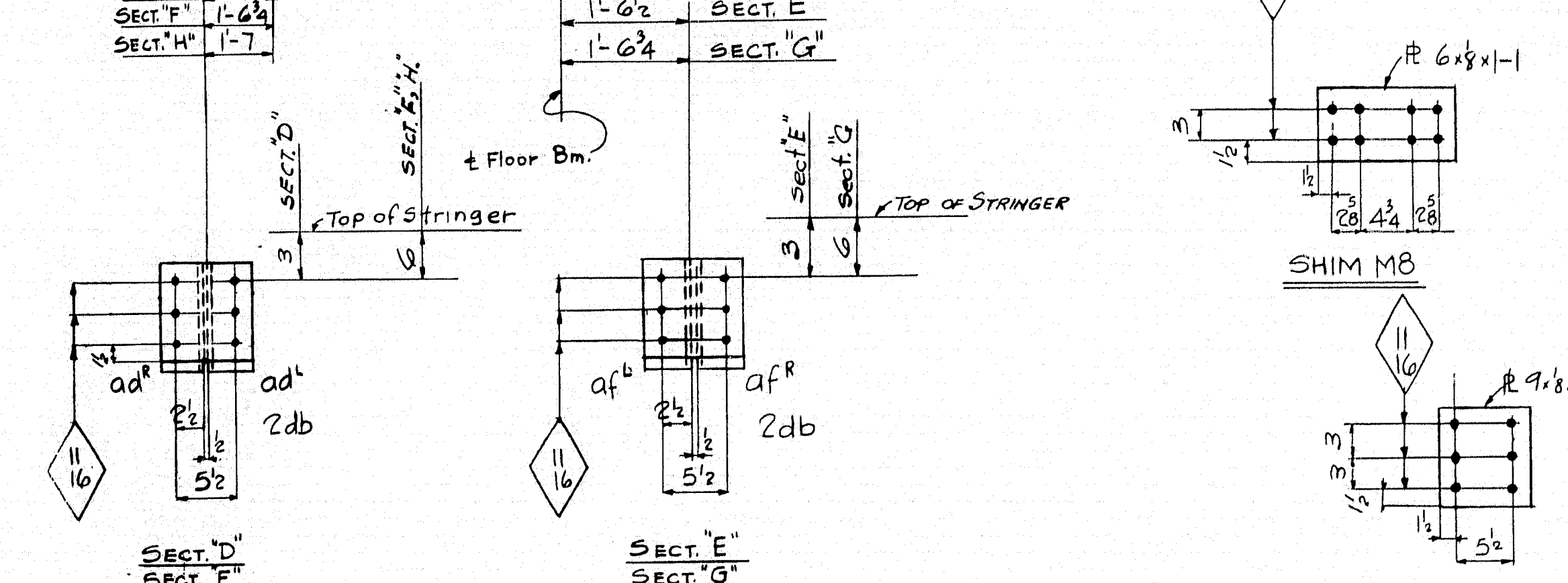
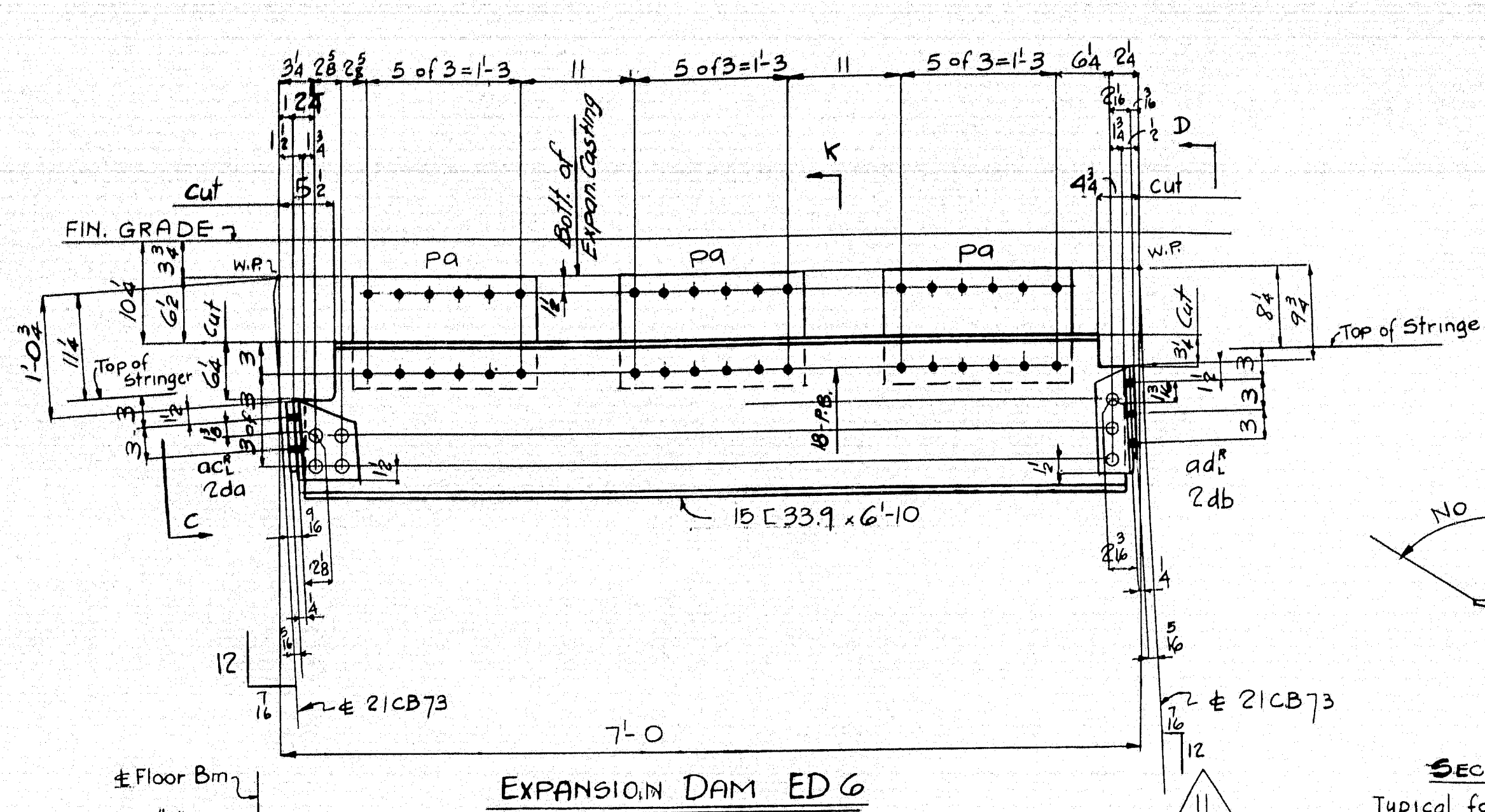
Note
Shims to be flat and smooth, free from burrs and to be covered with coat of oil



LINE	ITEM	MATERIAL	LENGTH	ASSEMBLY	REMARKS	ORDERED	WEIGHT
1							
2		29 RAIL POSTS		RP1			
3		ONE RAIL POST		RP2			
4							
5	30	8 CB 31	4	3 1/2			
6	120	30 R	8	1 1/2	ha (bent)		
7	120	60 R	2 1/2	6	pa		
8	30	L	7	3	aa		
9		1 Std. A.B.Co.					
10		Name Plate					
11		Pattern A1					
12	2	PA 3/4	2 1/2	9	da		
13	59	30 Fill	3 1/2	9	da		
14	180	S.B.	2 1/2	9	da		
15							
16							
17		29 RAIL POSTS		RP3			
18		ONE RAIL POST		RP6			
19							
20	30	8 CB 31	5	3 1/2			
21	30	R	8	1 1/2	ha (bent)		
22	60	R	2 1/2	6	pa		
23	29	L	7	3	aa		
24	29	Fill	3 1/2	9	da		
25	180	S.B.	2 1/2	9	da		
26	1	L	7	3	aa		
27	1	Fill	3 1/2	9	da		
28							
29							
30		50 RAIL POSTS		RP4			
31		50 RAIL POSTS		RP5			
32							
33	100	8 CB 31	6	1 1/2			
34	100	R	8	1 1/2	ha (bent)		
35	200	R	2 1/2	6	pa		
36	100	Fill	3 1/2	9	da		
37	100	Fill	3 1/2	9	da		
38	400	S.B.	2 1/2	9	da		
39							
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44							
45	60	Shims	3	1/4	8 1/2	M12	
46	120	Shims	3	1/4	8 1/2	M13	
47	200	Shims	3	1/4	5 3/8	M14	
48	400	Shims	3	1/4	5 3/8	M15	
49	1	Shims	3	1/4	6	M16	
50	2	Shims	3	1/4	6	M17	
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PAINT: YES
SHOP CONTACT SURFACES: No
WELDING: YES

State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1-389 (2)
AMERICAN BRIDGE COMPANY
DRAWINGS MADE AT: A.M.B. #1 PLANT
WORK FABRICATED AT: ELMIRA PLANT
IN CHARGE OF: Hughes 258
DRAW. MADE BY: RRA DATE: 7.10.48
DRAW. CHECKED BY: Jm DATE: 9/14/48
ORDER No. 35762
SHEET No. 113



ALL BOLTS 8^{ϕ} x 2 Hex. Hd. & Nut

HOLES  UNLESS NOTED

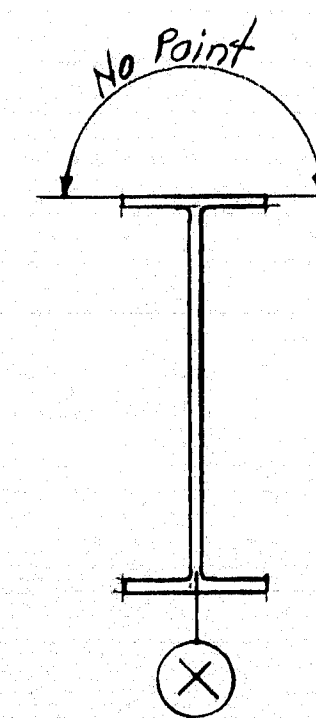
RIVETS 

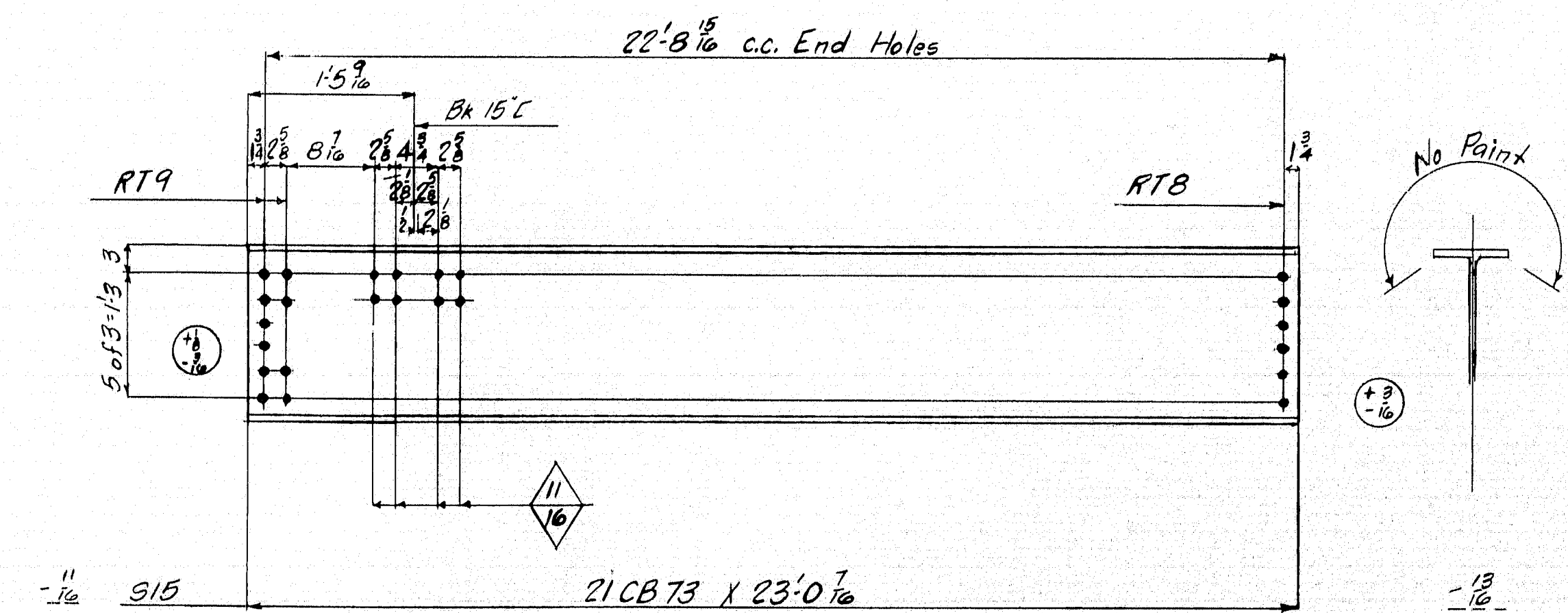
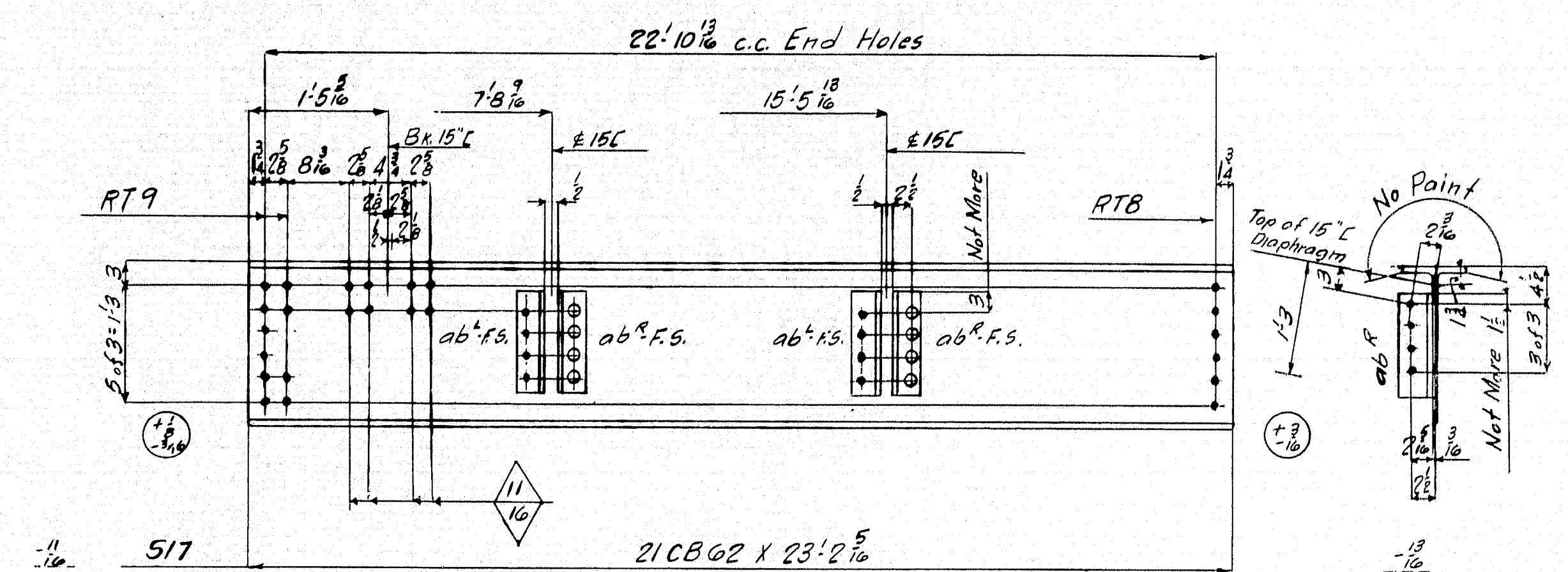
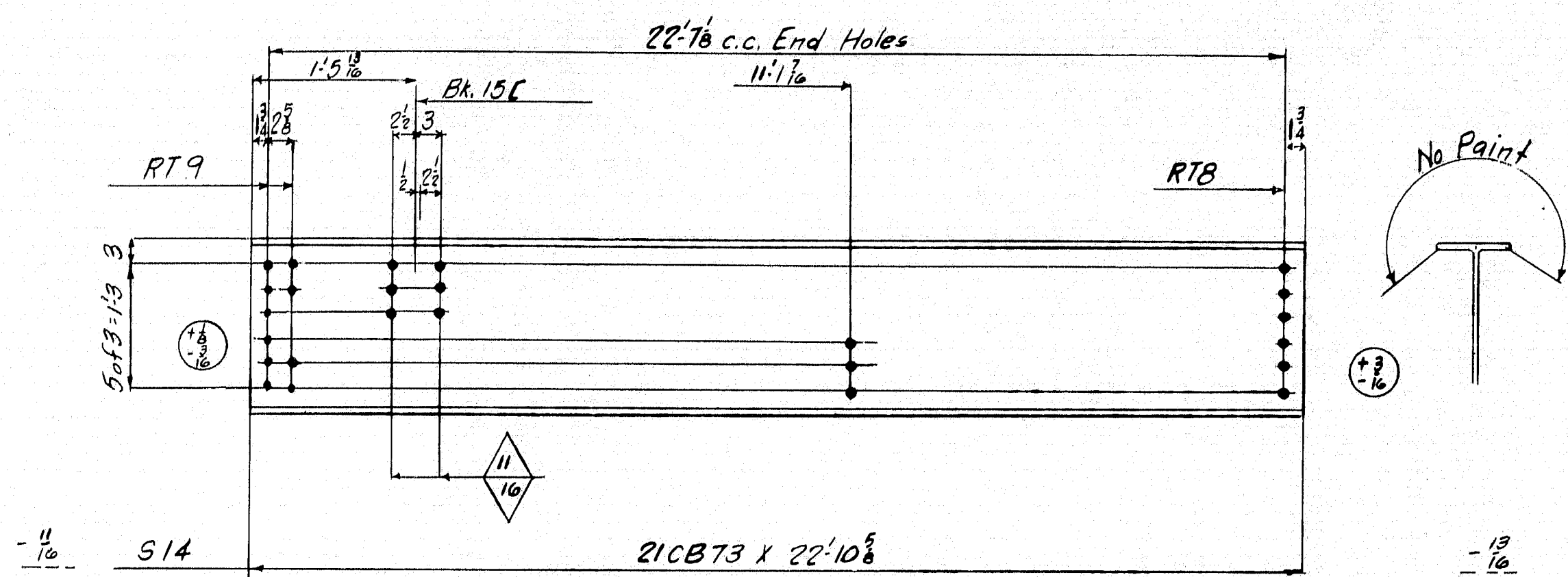
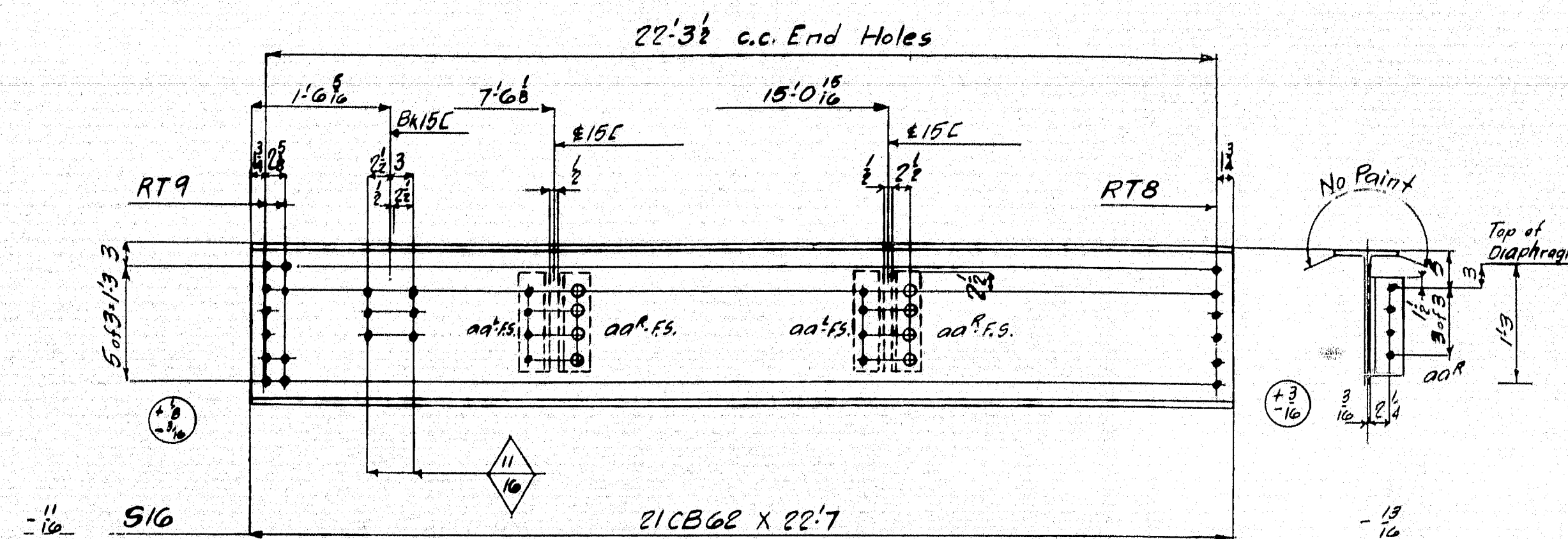
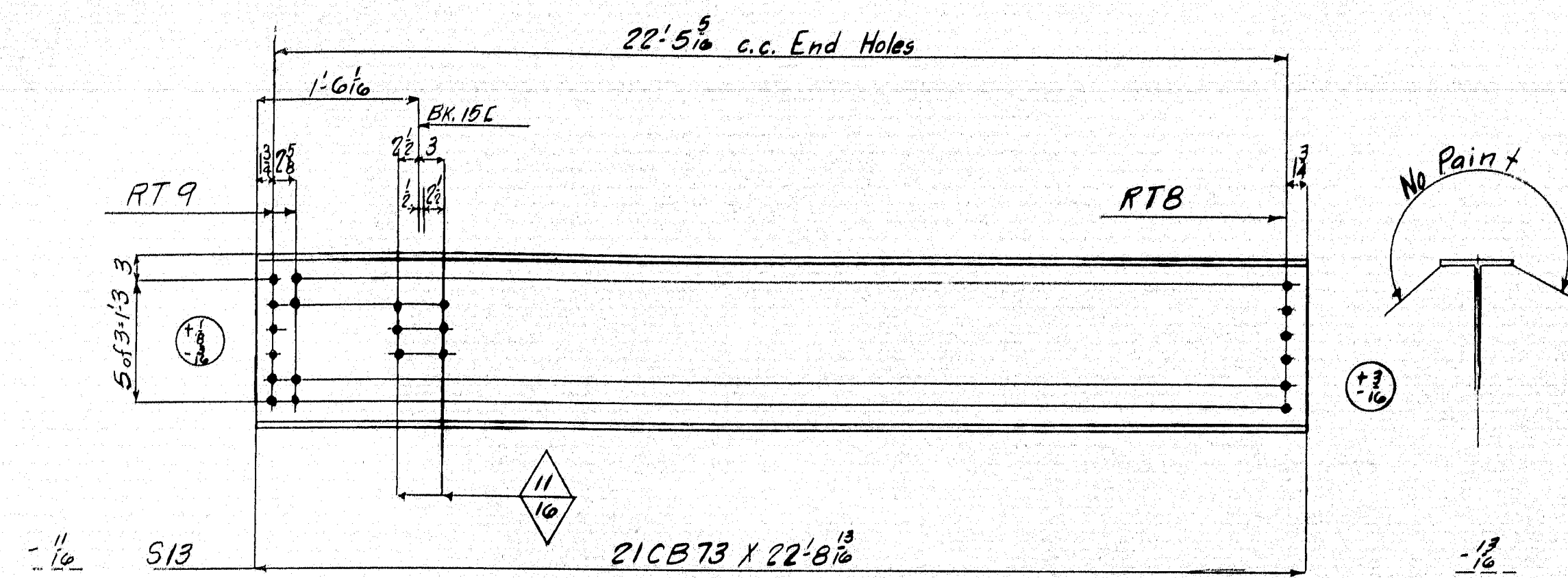
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

DRAWINGS MADE AT AMB #1 PLANT
WORK FABRICATED AT ELMIRA PLANT
IN CHARGE OF HUGHES 259
DRAW. MADE BY RRA DATE 9-3-45
DRAW. CHECKED BY Jm DATE 10/15/45

ORDER NO. J5762 SHEET NO. 702





NOTE
Holes marked RT. to be punched 1/2" small and reamed to size to a metal template.

Rivets 7/8
Holes 15/16 Unless Noted

PAINT: Yes (Except As Noted)
SHOP CONTACT SURFACES: No

F	
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STRINGERS S13 to S17
State of Maine
State Highway Commission
Bridge Division
Bridge over Kennebec River
Augusta, Maine
Bridge - 5196 Project F1, U1 - 389 (2)

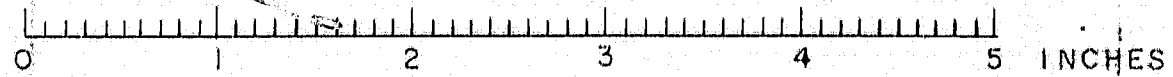
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

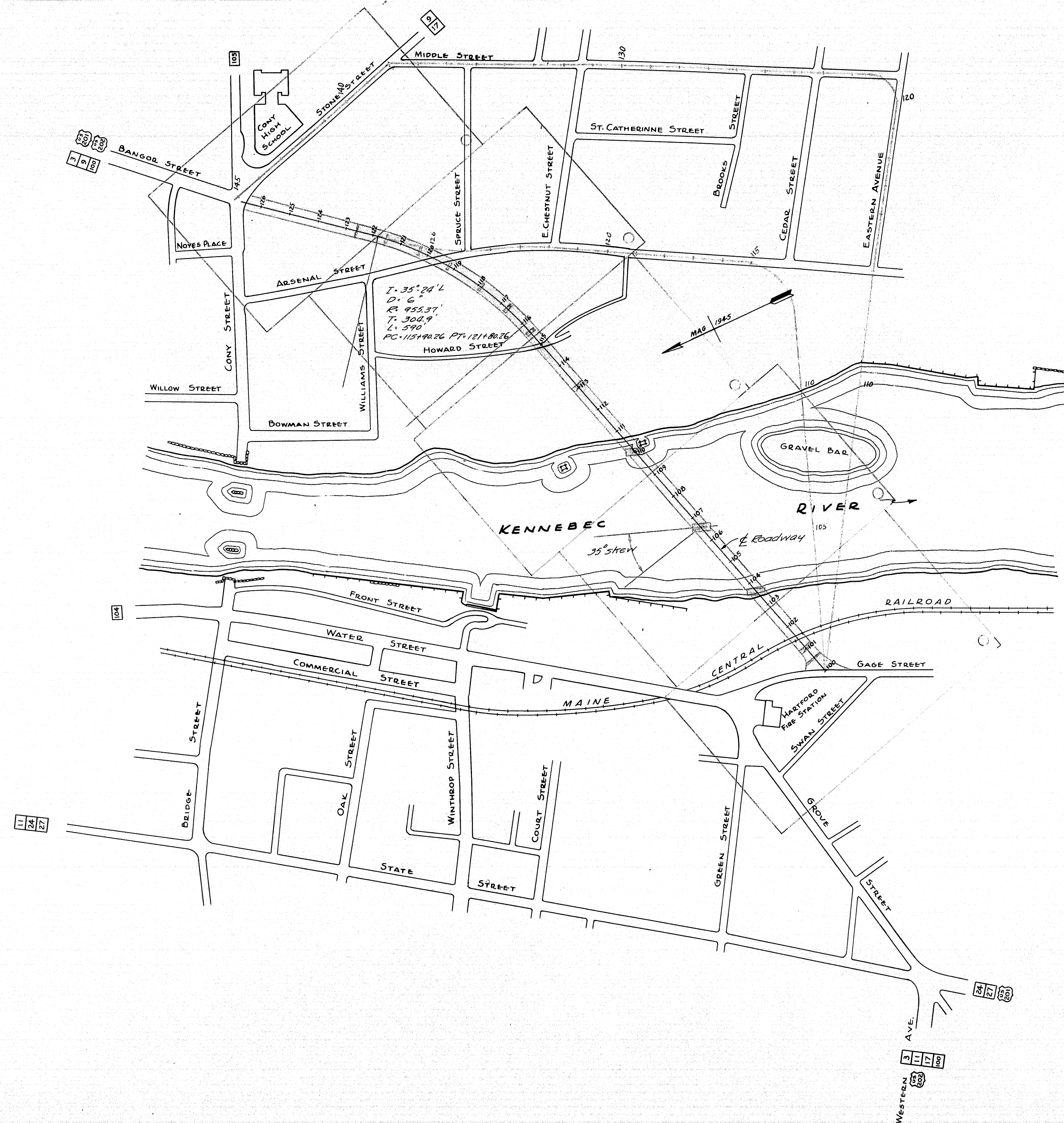
DRAWINGS MADE AT: Amb. PLANT
WORK FABRICATED AT: Elmira PLANT
IN CHARGE OF: Hughes Ext. 259
DRAW. MADE BY: H.V. DATE: 9-10-48
DRAW. CHECKED BY: J.M. DATE: 10/15/48

ORDER No. J5762 SHEET No. 204

AM. BH. 106

51-199

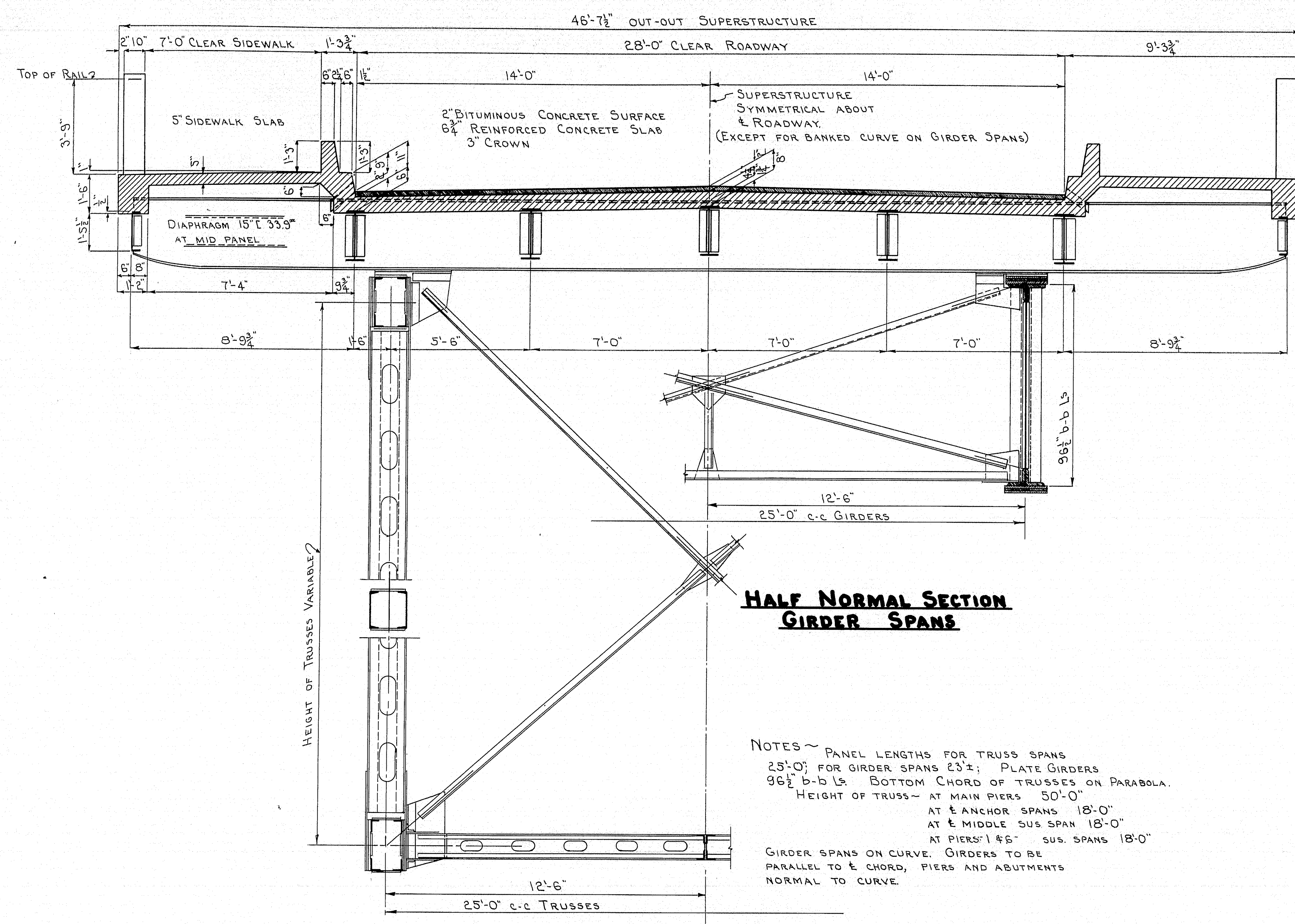




SURVEY - P. JOHNSON	
PLAN - BOYD	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY. KEY PLAN	
SHEET 1 OF 3 AUGUSTA MAINE DEC 1945	
PRELIMINARY PLAN 51-200	

SCALE 1" = 200'

0 1 2 3 4 5 INCHES



PLAN: *Engr'd*
TRACED: COB

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

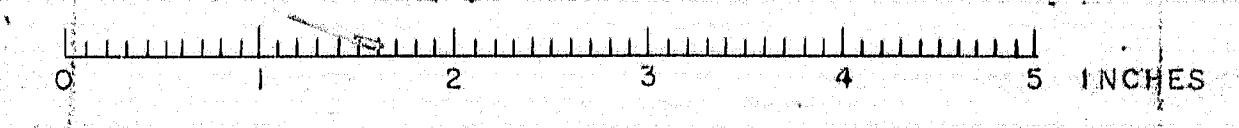
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA

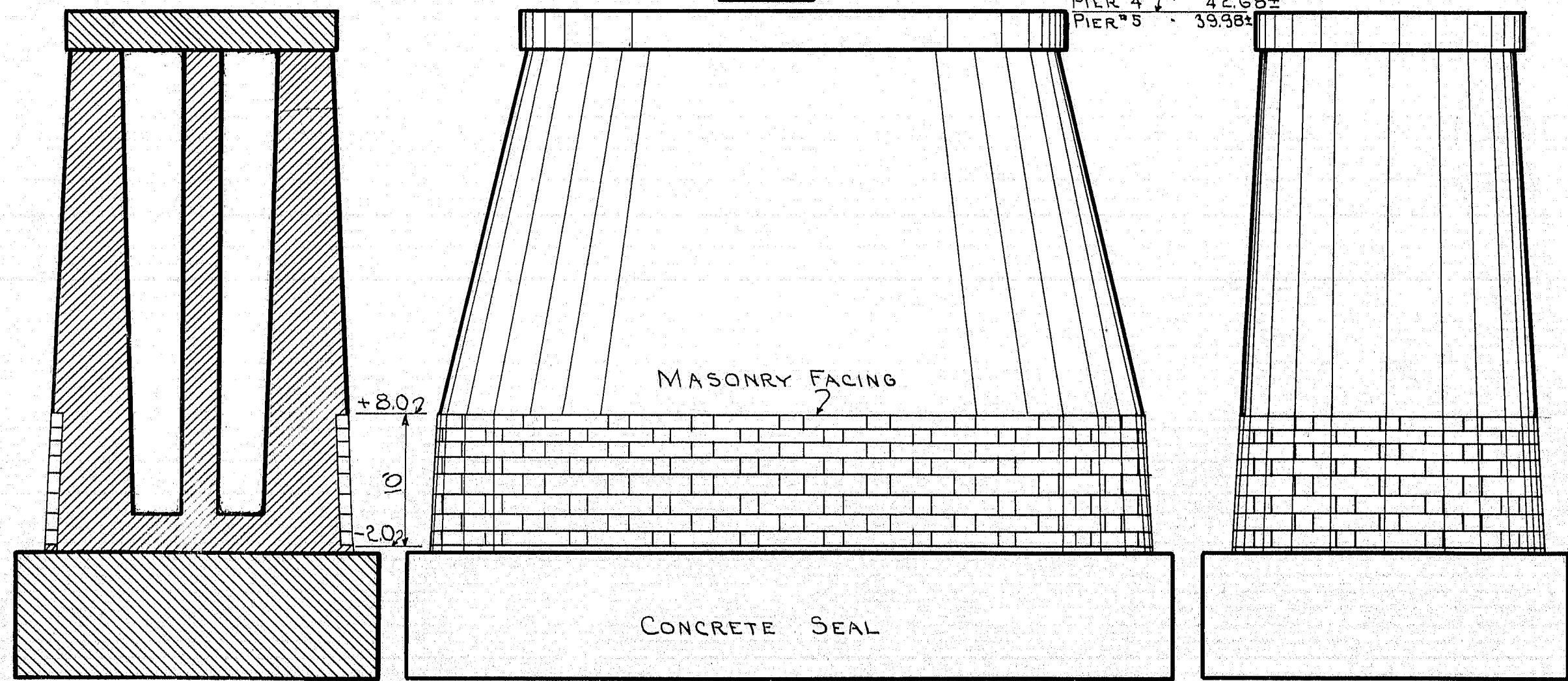
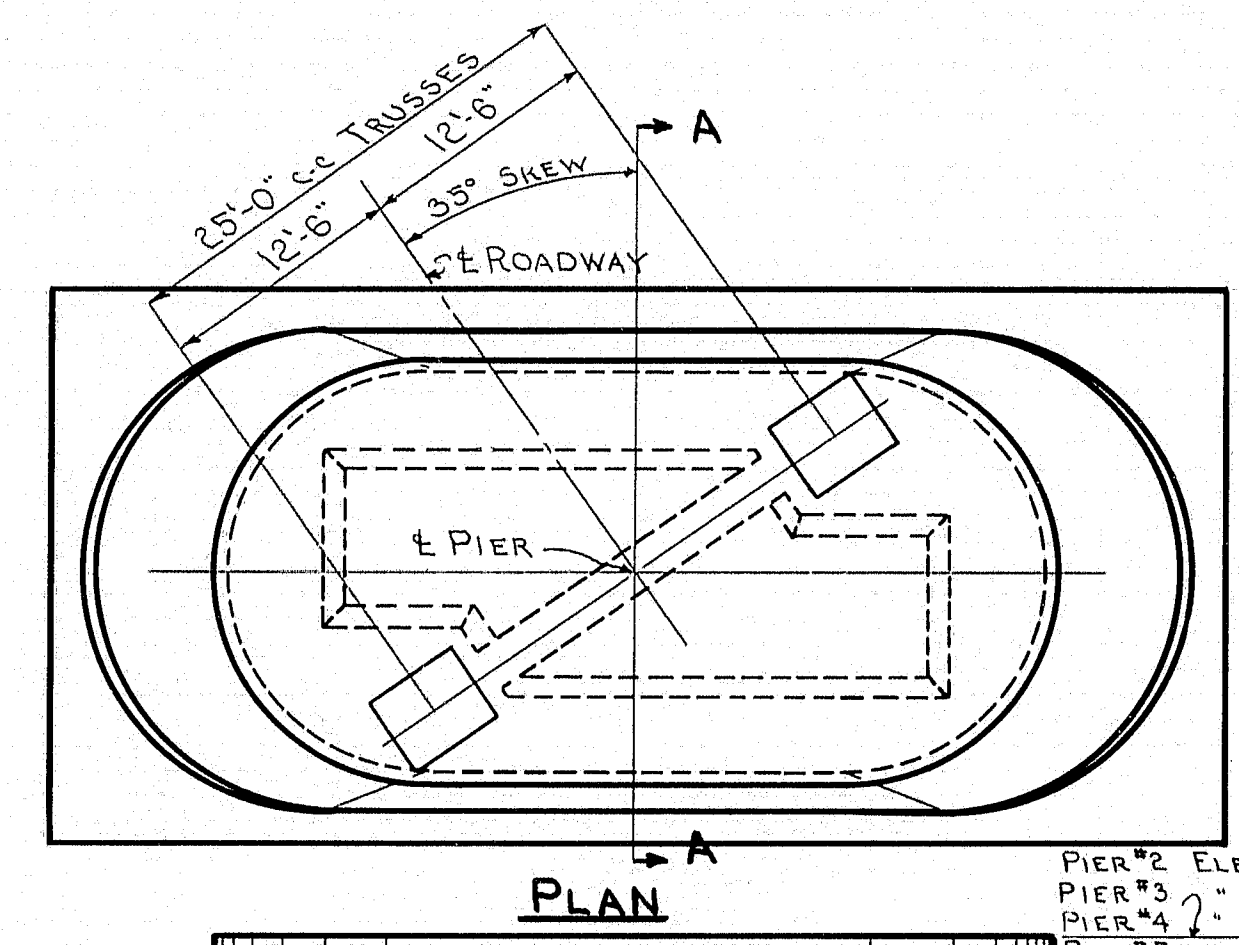
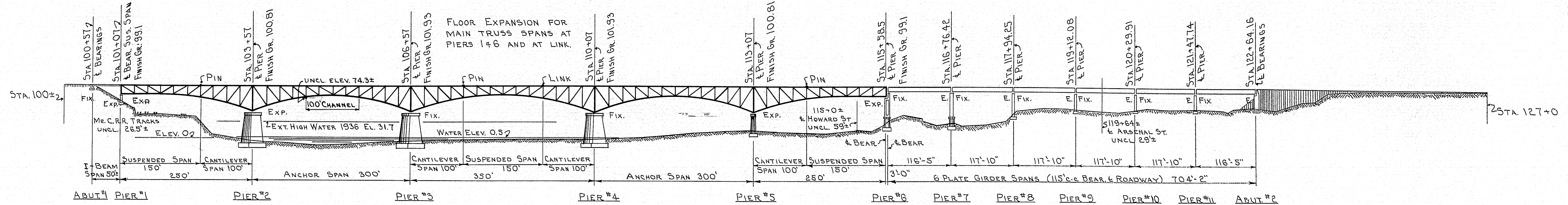
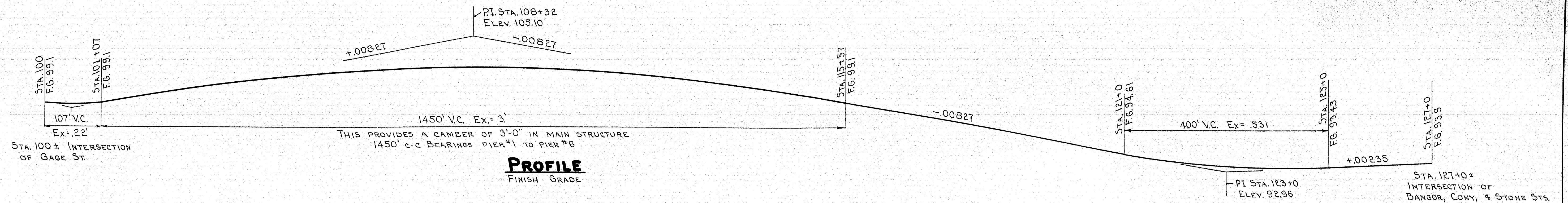
KENNEBEC COUNTY

TYPICAL BRIDGE SECTIONS

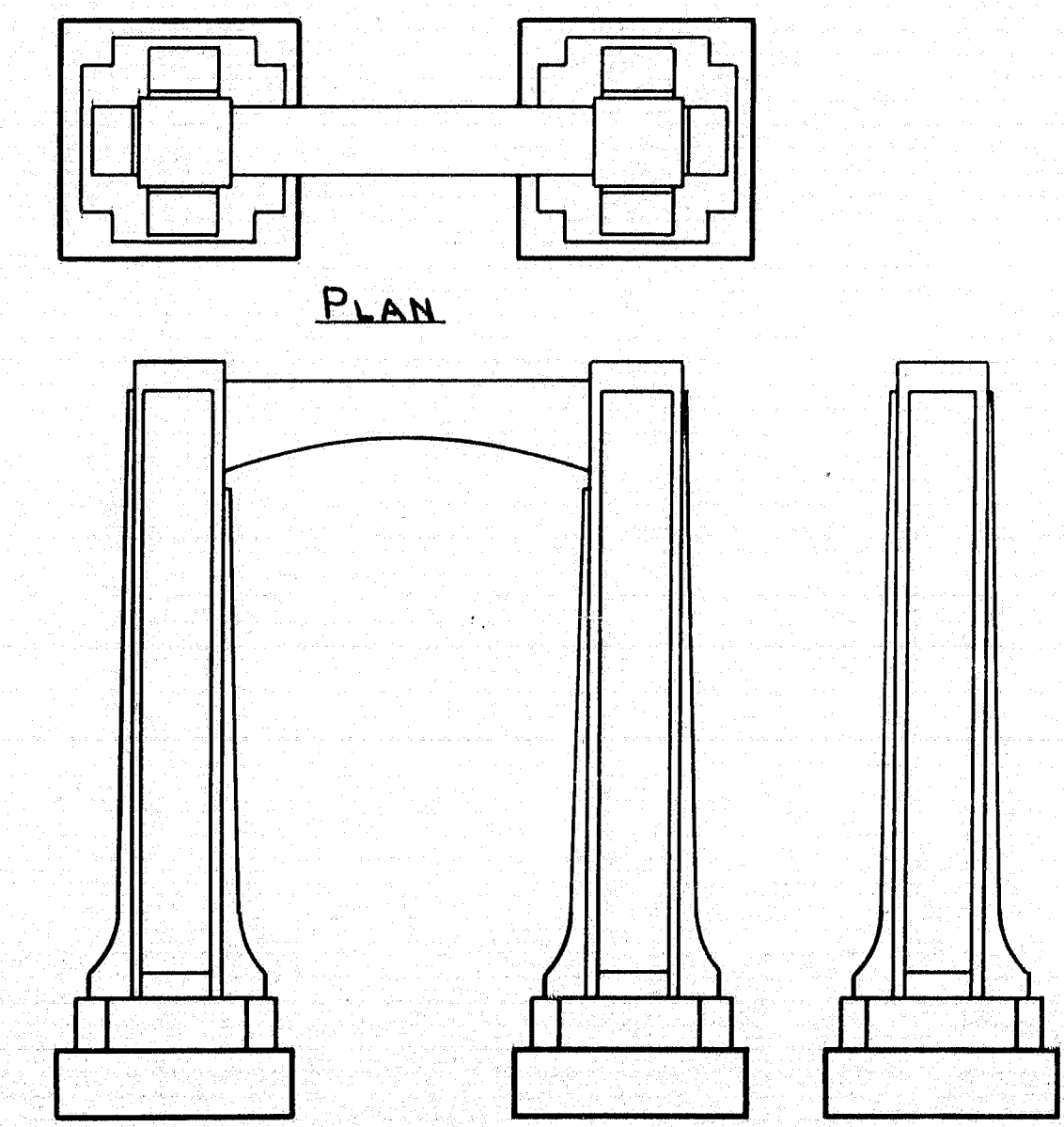
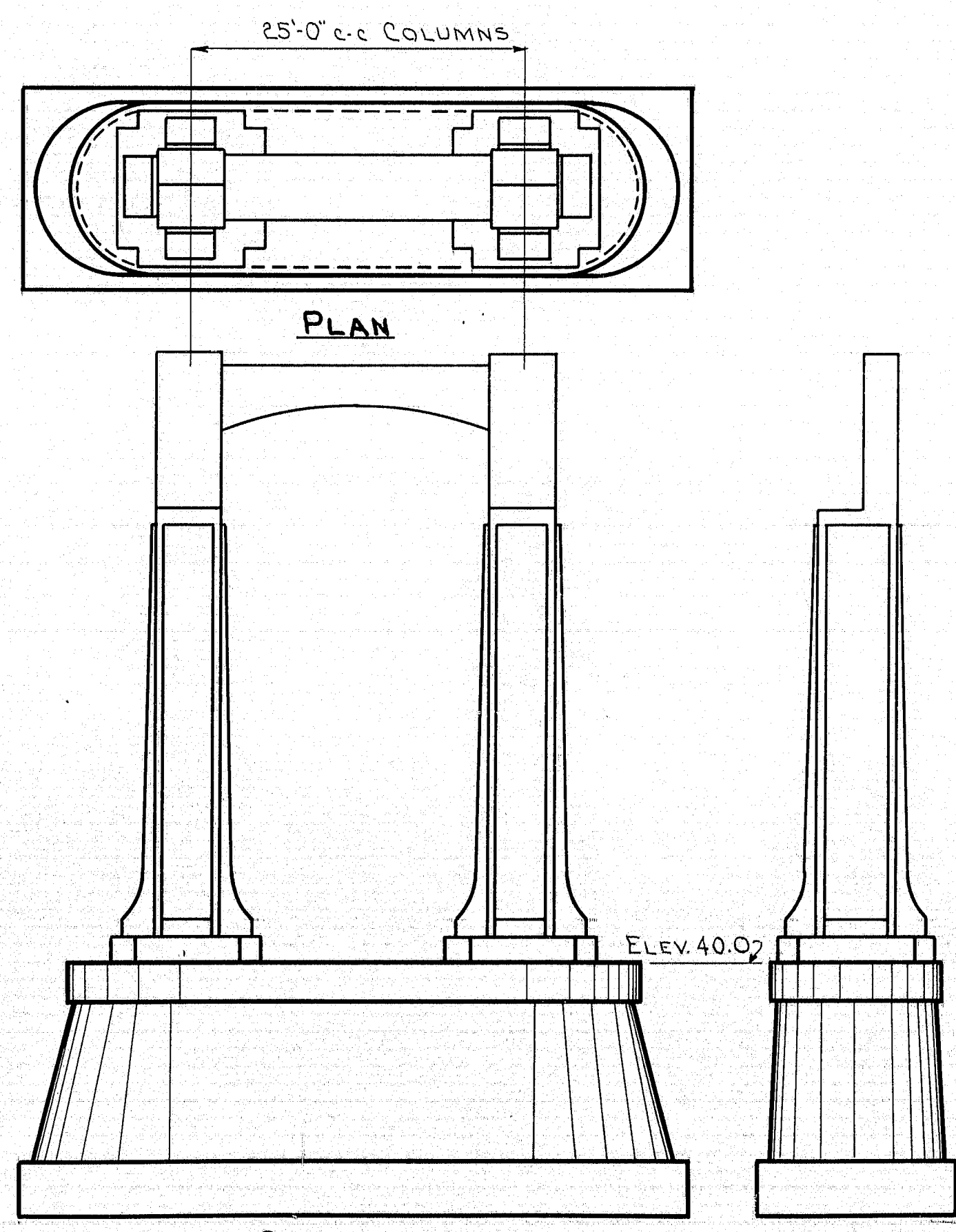
SHEET 2 OF 3 AUGUSTA, ME. MAY 1946

PRELIMINARY PLAN 51-201





NOTE: PIER #5 WILL BE SIMILAR TO PIERS 2-3-4 EXCEPT IT WILL BE MASS CONCRETE AND NOT SKEWED.

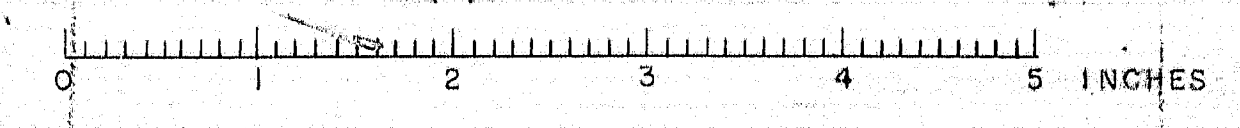


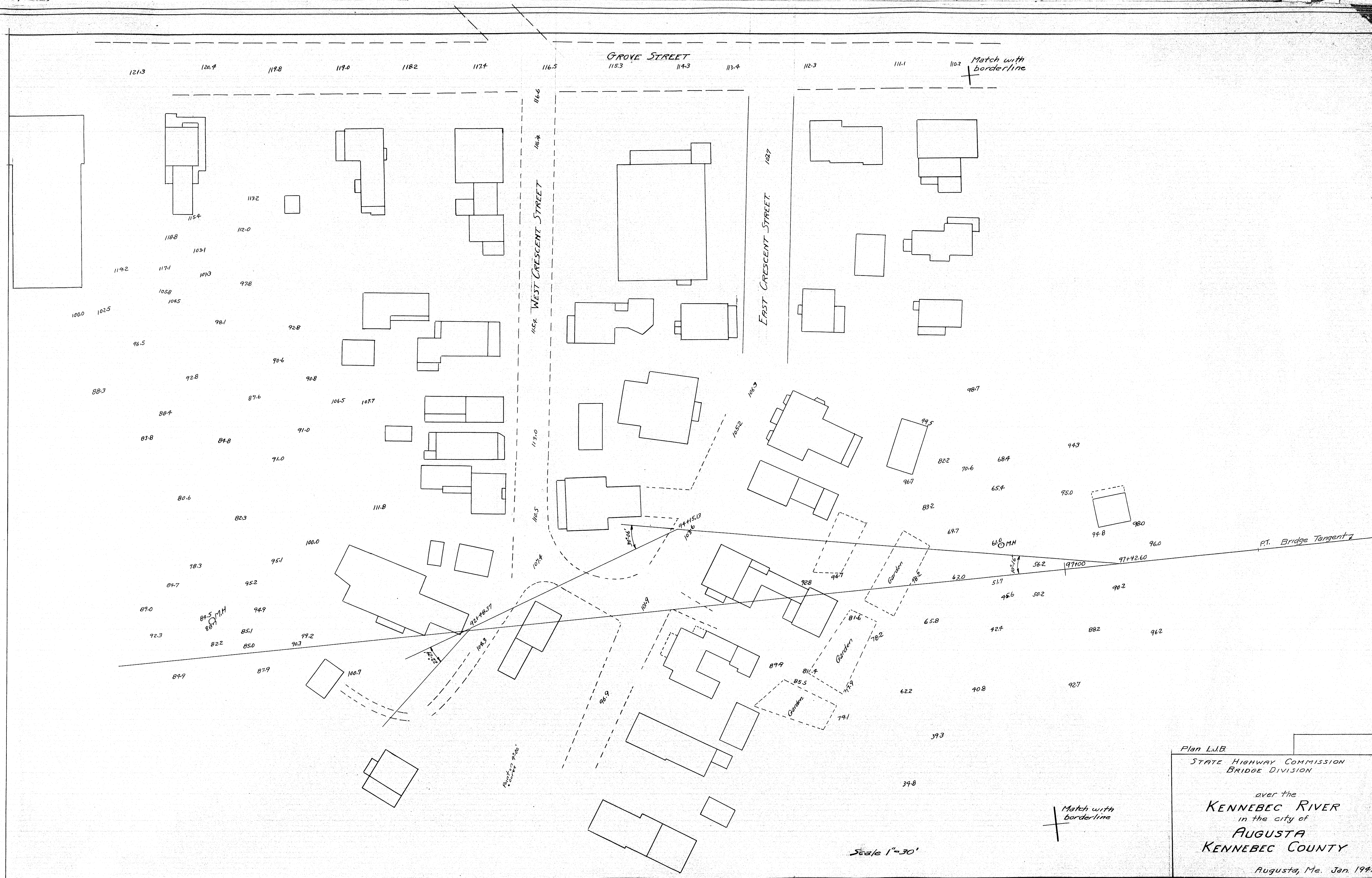
FOUNDATION DATA NOT YET AVAILABLE. SHOULD PILING PROVE NECESSARY, W/ 12x12x74" BEARING PILES WILL BE USED. MAXIMUM LOAD PER PILE 65 TONS.

NOTES
LOADING: H20-S16-44
SPECIFICATIONS: MAINE STATE HIGHWAY COMMISSION, SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES, NOVEMBER 1945. ALL STEEL TO BE STRUCTURAL CARBON. RIVETS 3/4"
CONCRETE: f_c = 18000 psi
f_c = 10000 psi
n = 10

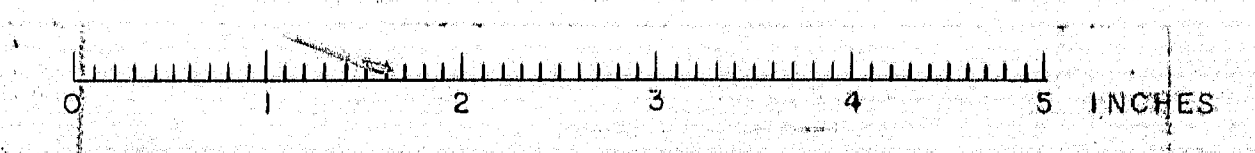
PLANS: *Traced*
TRACED: C.A.B.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
BRIDGE ELEVATION - TYPICAL PIER DETAILS
SHEET 3 OF 3 AUGUSTA, ME. MAY 1946
PRELIMINARY PLAN 51-202





Plan LJB
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
over the
KENNEBEC RIVER
in the city of
AUGUSTA
KENNEBEC COUNTY
Augusta, Me. Jan. 1947



STATE OF MAINE
STATE HIGHWAY COMMISSION

PLAN AND PROFILE

AUGUSTA BRIDGE

OVER THE

KENNEBEC RIVER

IN THE CITY OF

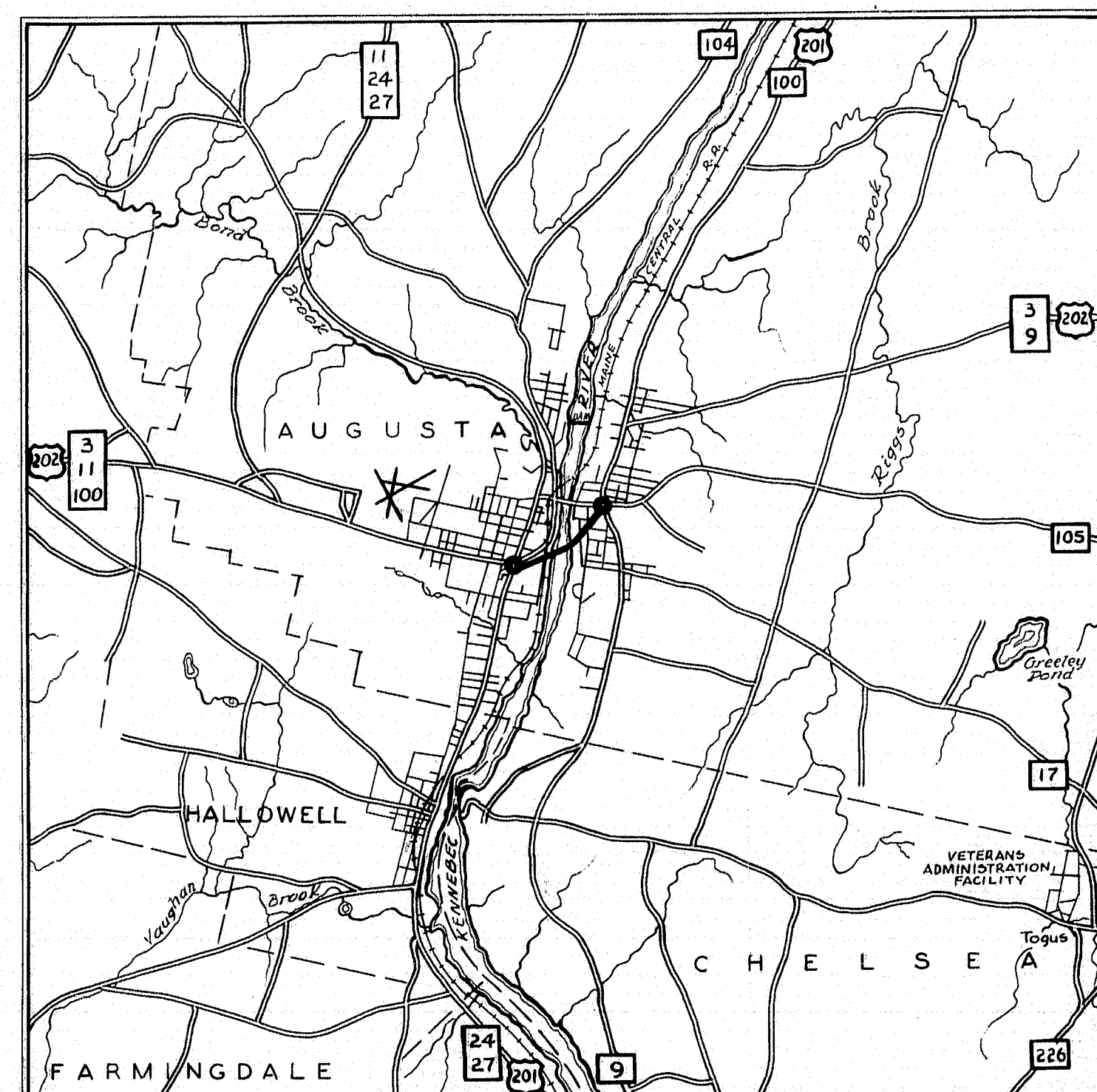
AUGUSTA

KENNEBEC COUNTY

FEDERAL AID PROJECT

NO. FI,UI-389 (2)

TOTAL LENGTH 0.776 MILE



LOCATION MAP
TRACED FROM U.S.G.S.
SCALE 1" = 62,500'

P.R.A. DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	FI,UI-389(2)	1	19

GENERAL SPECIFICATION

Payment for any necessary unwatering of foundation pits shall be included in the contract unit price for excavation.

CONCRETE CLASSIFICATION

Class A - Bridge floor including sidewalk slabs and all curbs. Approach roadway base slabs, and approach sidewalk slabs and curbs.

Class B - Retaining Wall.

CONTRACT 5

BRIDGE FLOOR

INDEX OF SHEETS

NUMBER	TITLE
1	TITLE SHEET
2	GENERAL LAYOUT
3	NO. RETAINING WALL DETAILS - GAGE ST.
4	APPROACH SLAB - GAGE ST.
5	NO. SIDEWALK & CURB - GAGE ST.
6	SO. SIDEWALK & CURB - GAGE ST.
7	APPROACH SLAB - ABUT. NO. 2
8	EAST APPROACH SLABS
9	GENERAL FLOOR PLAN
10	FLOOR DETAILS - SPAN NO. 1
11	REINFORCING STEEL - SPAN NO. 1
12	FLOOR DETAILS - PANELS A & B
13	FLOOR DETAILS - PANELS C,D,E,F,G,H
14	FLOOR DETAILS - PANEL NO. 1
15	FLOOR DETAILS - SPAN NO. 7 - PANELS J,K,L
16	FLOOR DETAILS - PANEL M
17	REINF. STEEL - SPANS 2 TO 11, PANELS A TO M
18	LIGHTING DETAILS
19	C.M.P. CO. MANHOLE DETAILS

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Lloyd B. Morton
CHAIRMAN

J. F. Russell

Harold K. Welch

Richard D. Samois
CHIEF ENGINEER

RECOMMENDED FOR APPROVAL DATE

[Redacted]

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

[Redacted]

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

P.R.A. DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	FI,UI-389(2)	1	45

GENERAL SPECIFICATION

Payment for any necessary unwatering of foundation pits shall be included in the contract unit price for excavation except piers 2-3-4 where cofferdams are covered under items 4A, 4B, 4C.

CONCRETE CLASSIFICATION

Abutment 1 Class B
Pier 1 Class B below and class A above Elev. 73.52
Piers 2,3,4 Seal concrete class A, all other class B
Pier 5 Class B
Pier 6 Class A above and class B below Elev. 40
Piers 7,8,9,10 Class A
Abutment 2 Class B

CONTRACTS 1 & 2

SUBSTRUCTURE AND
STEEL SUPERSTRUCTURE

INDEX OF SHEETS

NUMBER	TITLE
1	TITLE SHEET
2-6	SURVEY PLAN
7-9	PROFILE
10	GENERAL PLAN AND ELEVATION
11	LAYOUT-SUBSTRUCTURE-EAST APPROACH
12	ABUTMENT NO. 1
13	PIER NO. 1
14	PIER NO. 2
15	PIER NO. 3
16	PIER NO. 4
17	PIER NO. 5
18	PIER NO. 6
19	PIER NO. 7
20	PIER NO. 8
21	PIER NO. 9
22	PIER NO. 10
23	ABUTMENT NO. 2
24	ARSENAL ST. RETAINING WALL
25	REINFORCING STEEL - PIERS 1 TO 6
26	REINF. STEEL - ABUTS. & PIERS 7 TO 10
27	SUPERSTRUCTURE AND RAIL DETAILS
28	STRESSES - TRUSS SPANS
29	MAKE-UP OF MEMBERS
30	STRUCTURAL STEEL DETAILS AT U4L4
31	DETAIL AT FIXED PIN
32	DETAIL - PIN AND LINK
33	STEEL & BEARING DETAILS - PIERS 1 & 6
34	EXP. & FIXED BEARINGS - PIERS 2 TO 5
35	FLOOR EXPANSION DETAILS
36-37	STEEL DETAILS - SPAN NO. 1
38	STRESSES & LAYOUT - PLATE GIRDER SPANS
39-40	PLATE GIRDER DETAILS
41	GAGE STREET RAIL
42-45	CROSS SECTIONS - EAST APPROACH

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Stanley D. Samois
CHAIRMAN

Lloyd B. Morton

J. F. Russell

Richard D. Samois
CHIEF ENGINEER

RECOMMENDED FOR APPROVAL DATE

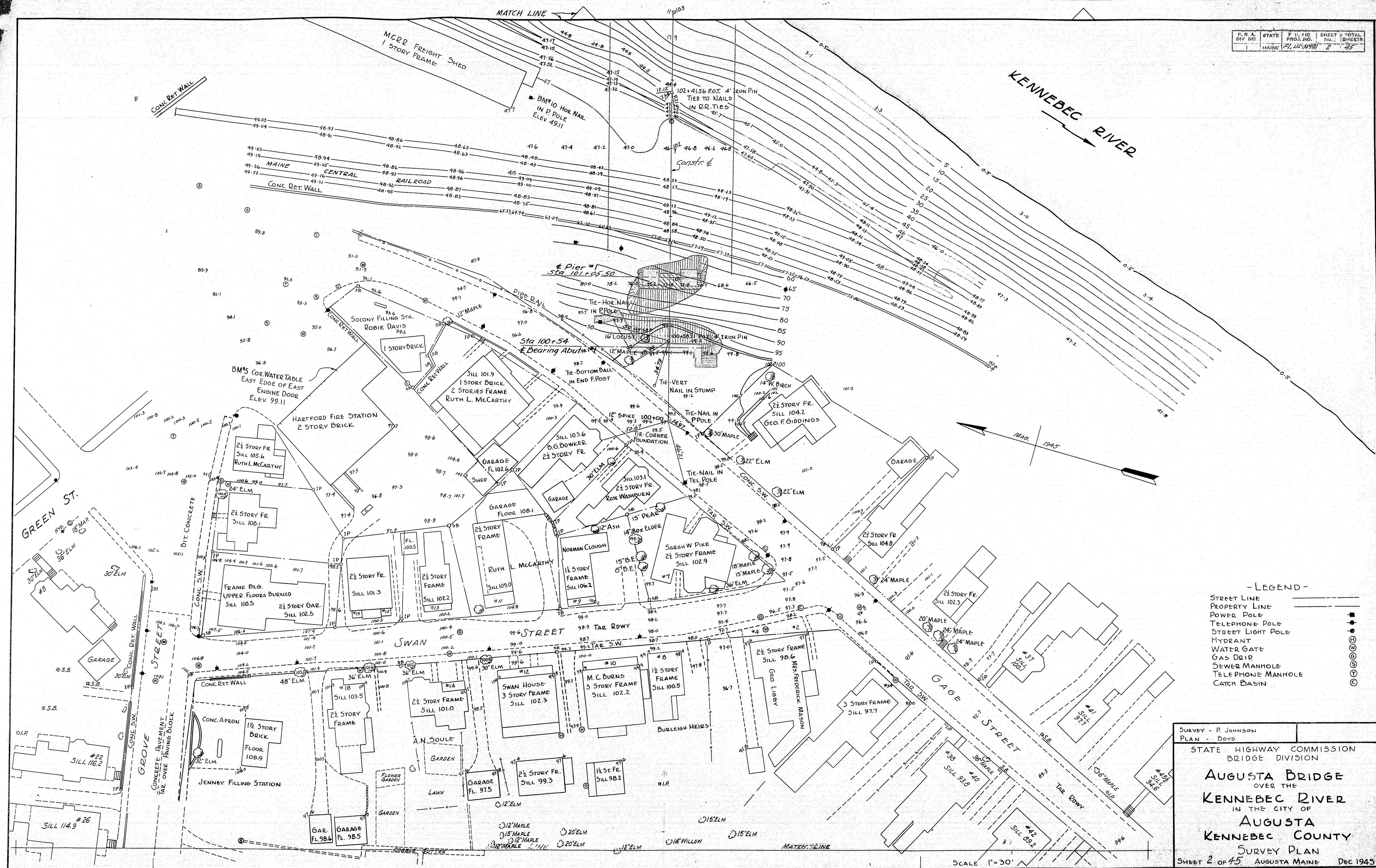
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DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

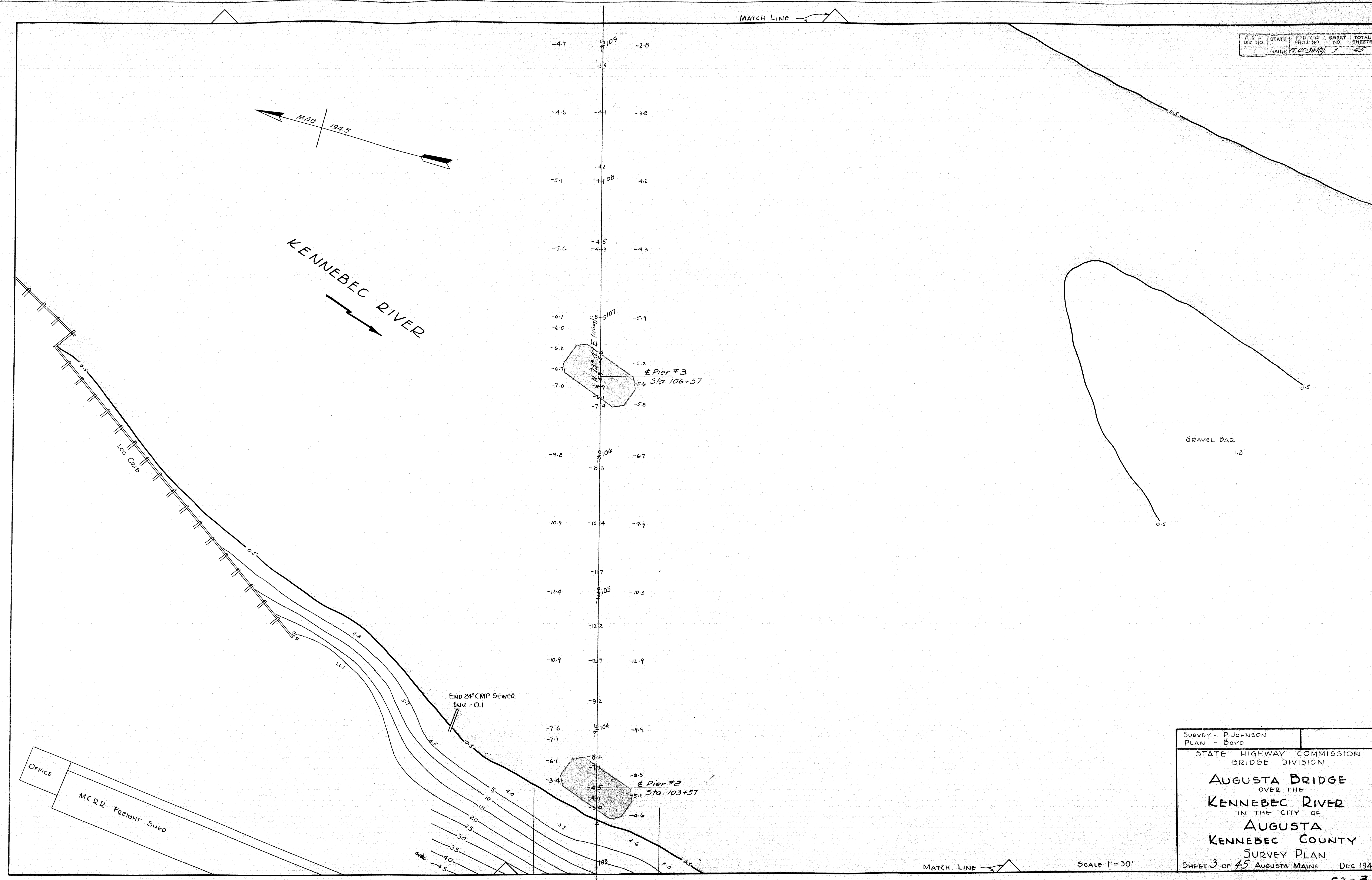
APPROVED DATE

[Redacted]

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY



F.W.A. DIV. NO.	STATE	F.D. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	17, 21-24, 10	3	45



SURVEY - P. JOHNSON
 PLAN - BOYD

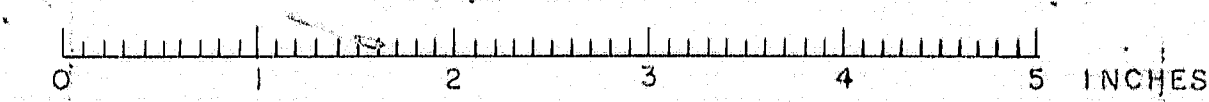
STATE HIGHWAY COMMISSION
 BRIDGE DIVISION

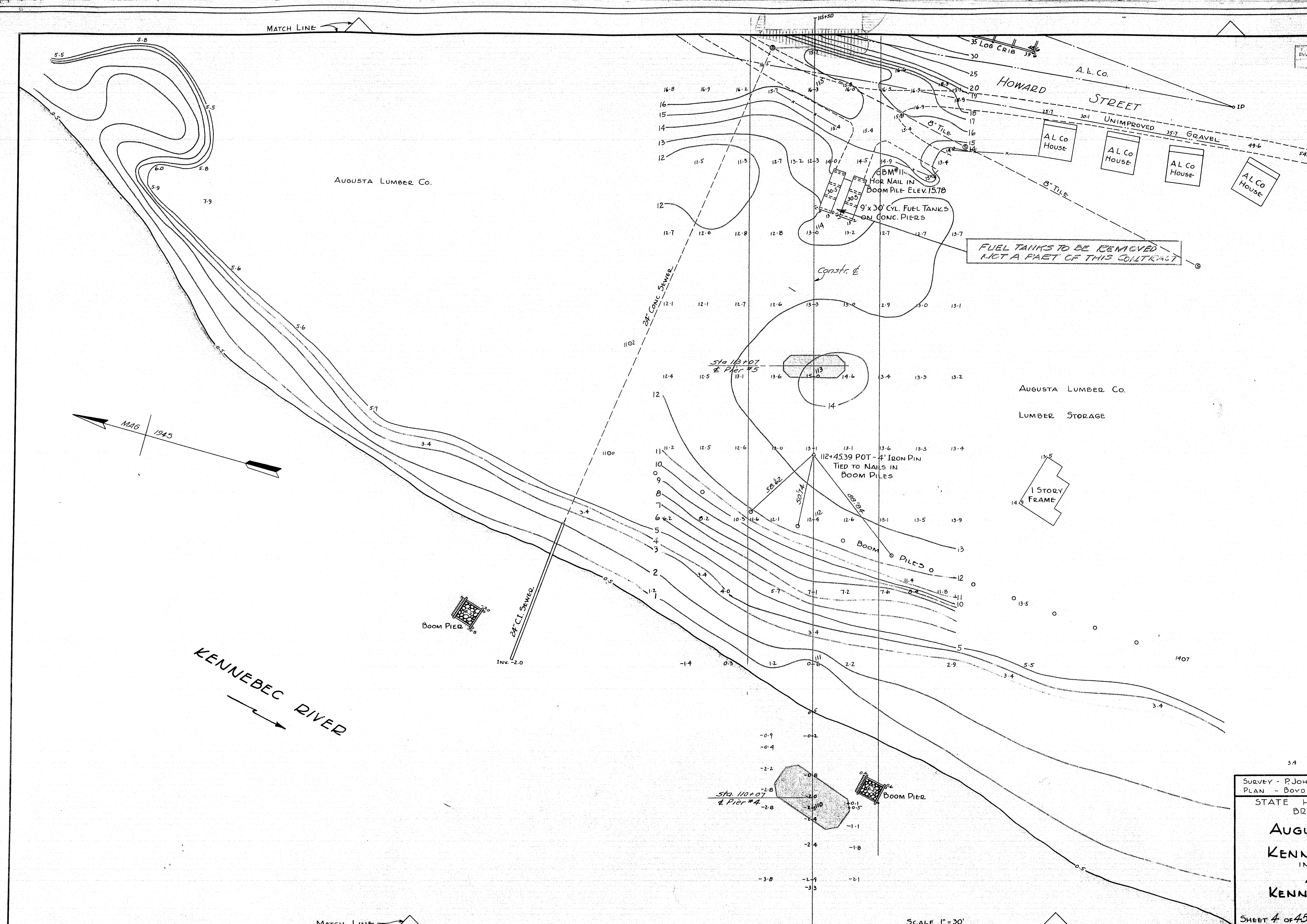
AUGUSTA BRIDGE
 OVER THE
KENNEBEC RIVER
 IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY

SURVEY PLAN
 SHEET 3 OF 45 AUGUSTA MAINE DEC 1945

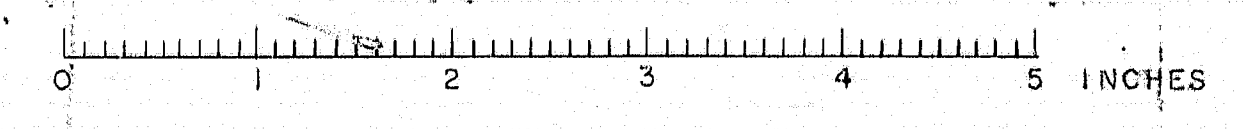
SCALE 1" = 30'

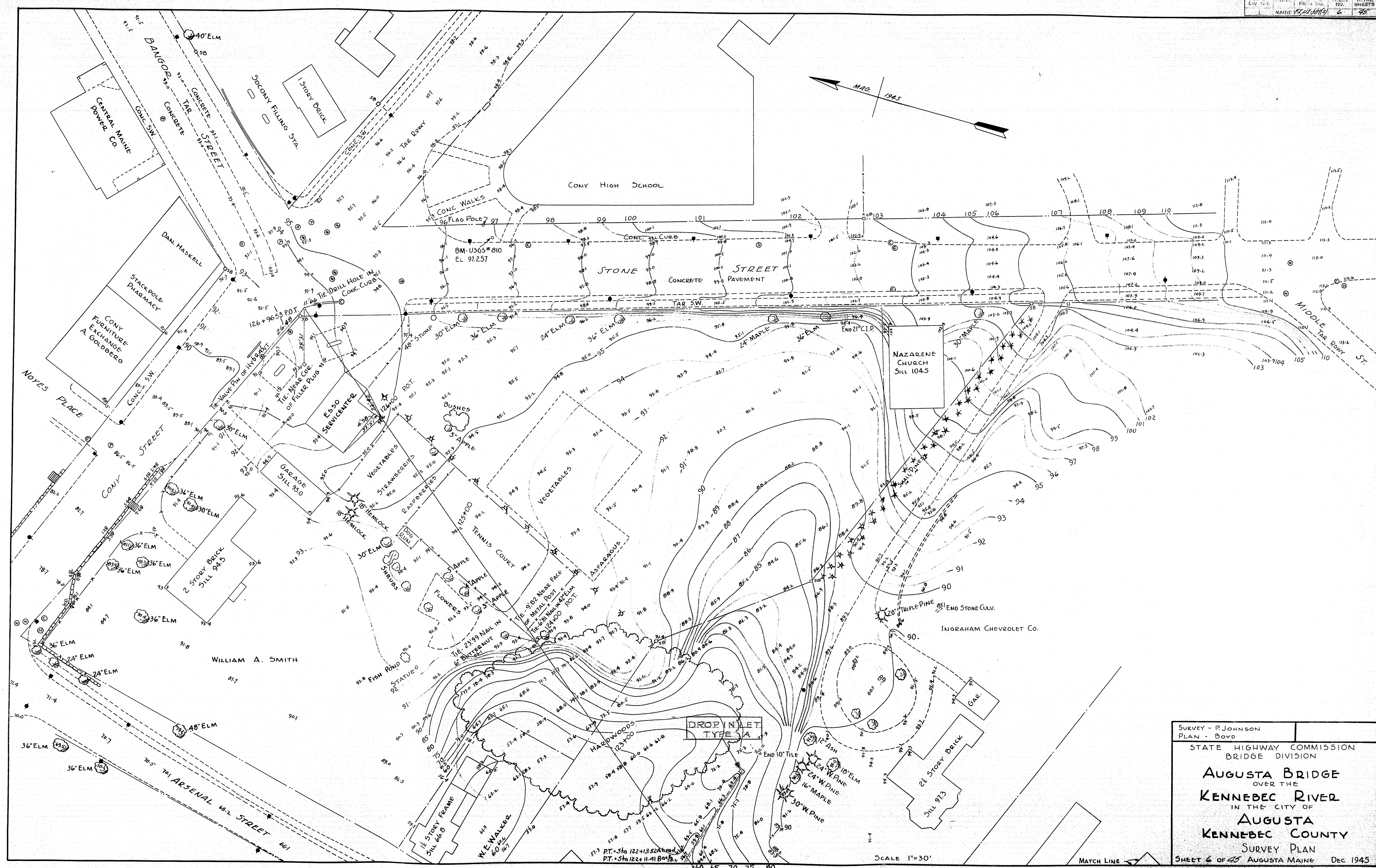
52-3



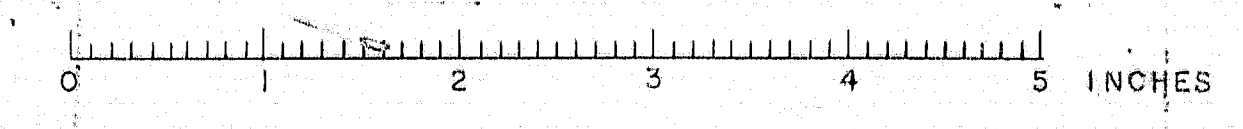


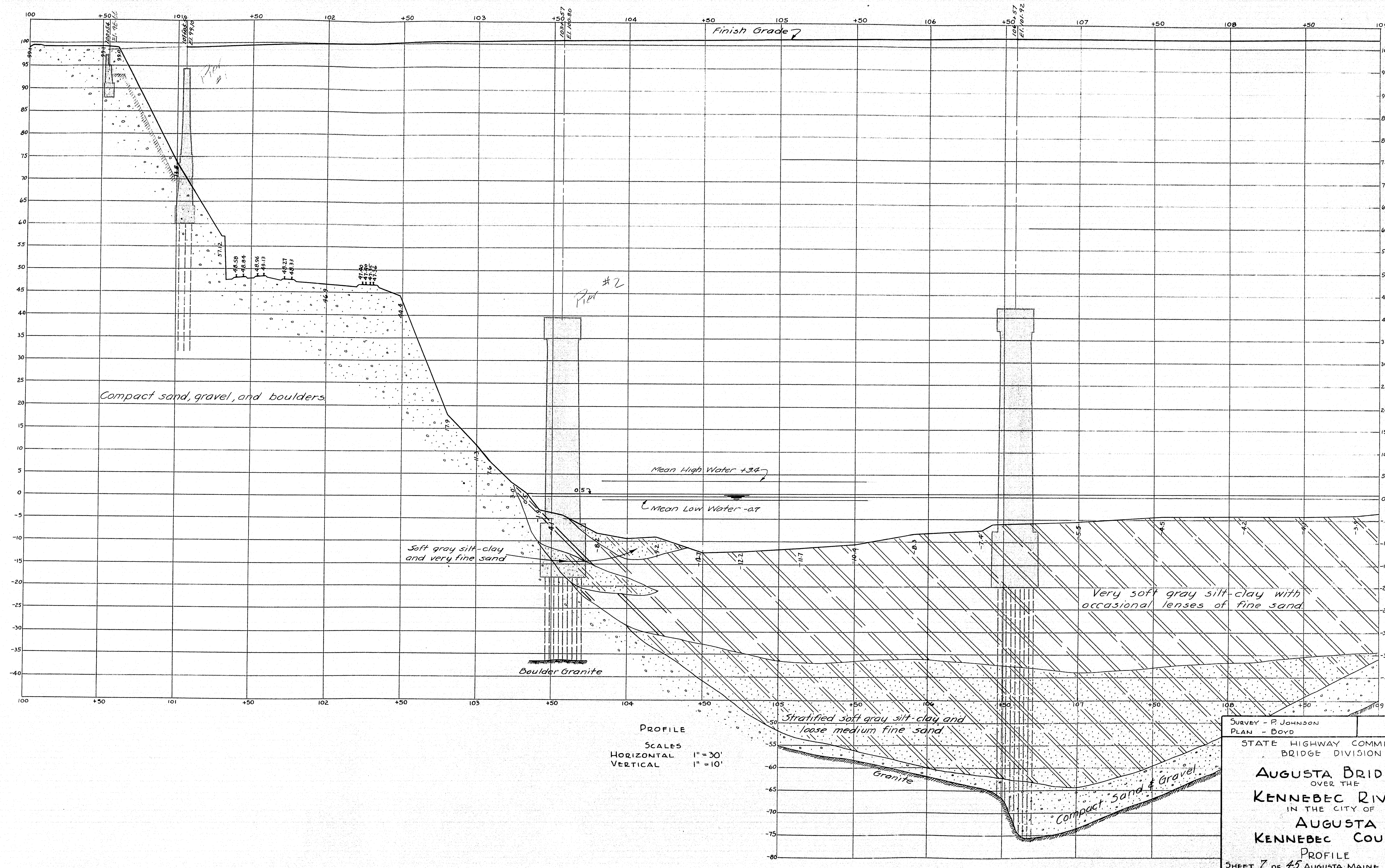
SURVEY - P. JOHNSON
 PLAN - BOVO
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
AUGUSTA BRIDGE
 OVER THE
KENNEBEC RIVER
 IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
 SURVEY PLAN
 SHEET 4 OF 45 AUGUSTA MAINE DEC 1945





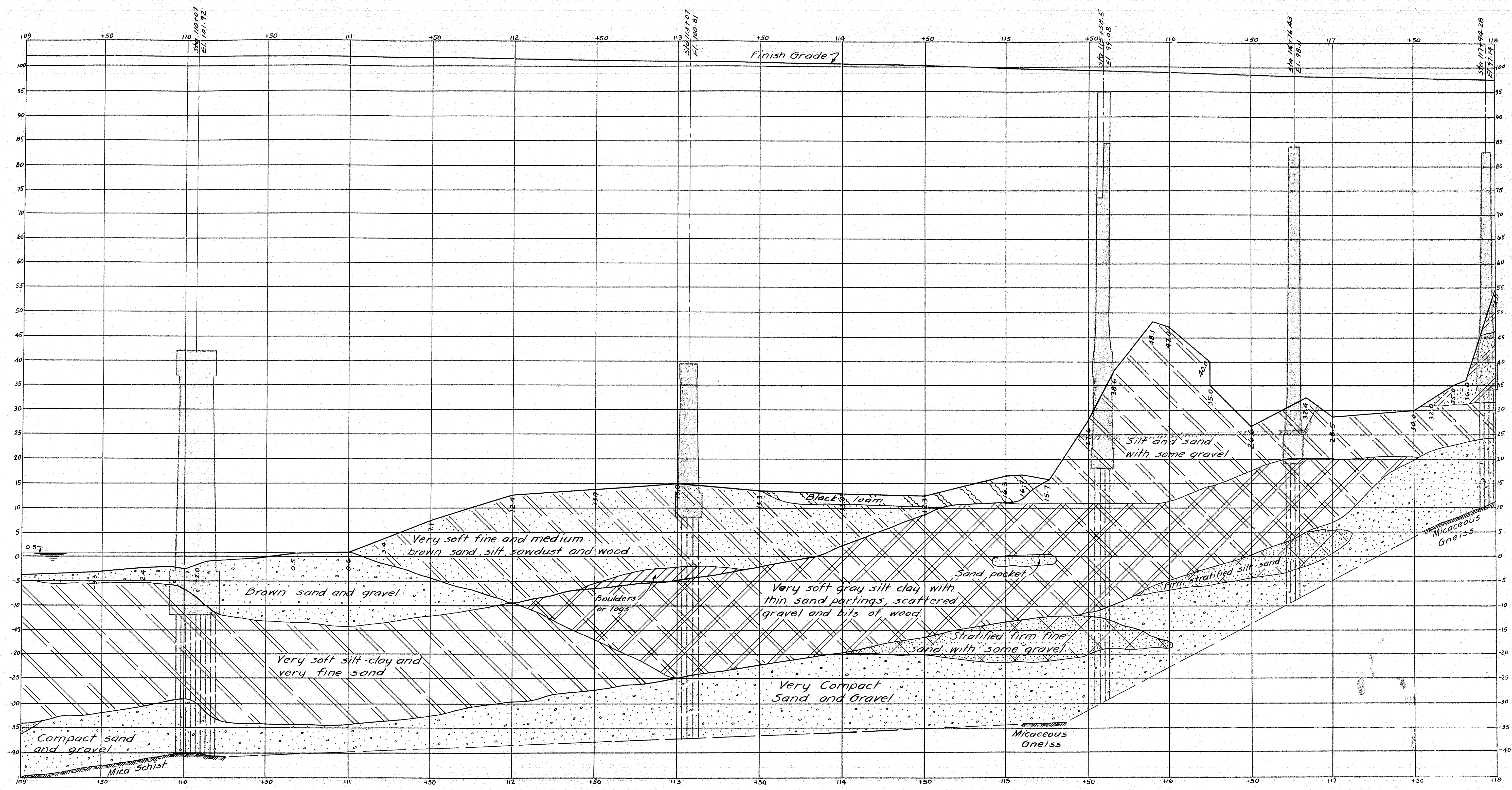
SURVEY - R. JOHNSON
 PLAN - BOVO
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
AUGUSTA BRIDGE
 OVER THE
KENNEBEC RIVER
 IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
 SURVEY PLAN
 SHEET 6 OF 45 AUGUSTA MAINE DEC 1945





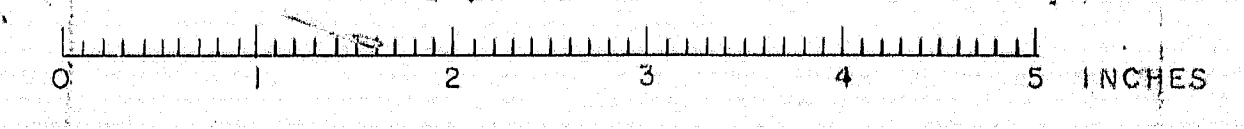
PROFILE
SCALES
HORIZONTAL 1" = 30'
VERTICAL 1" = 10'

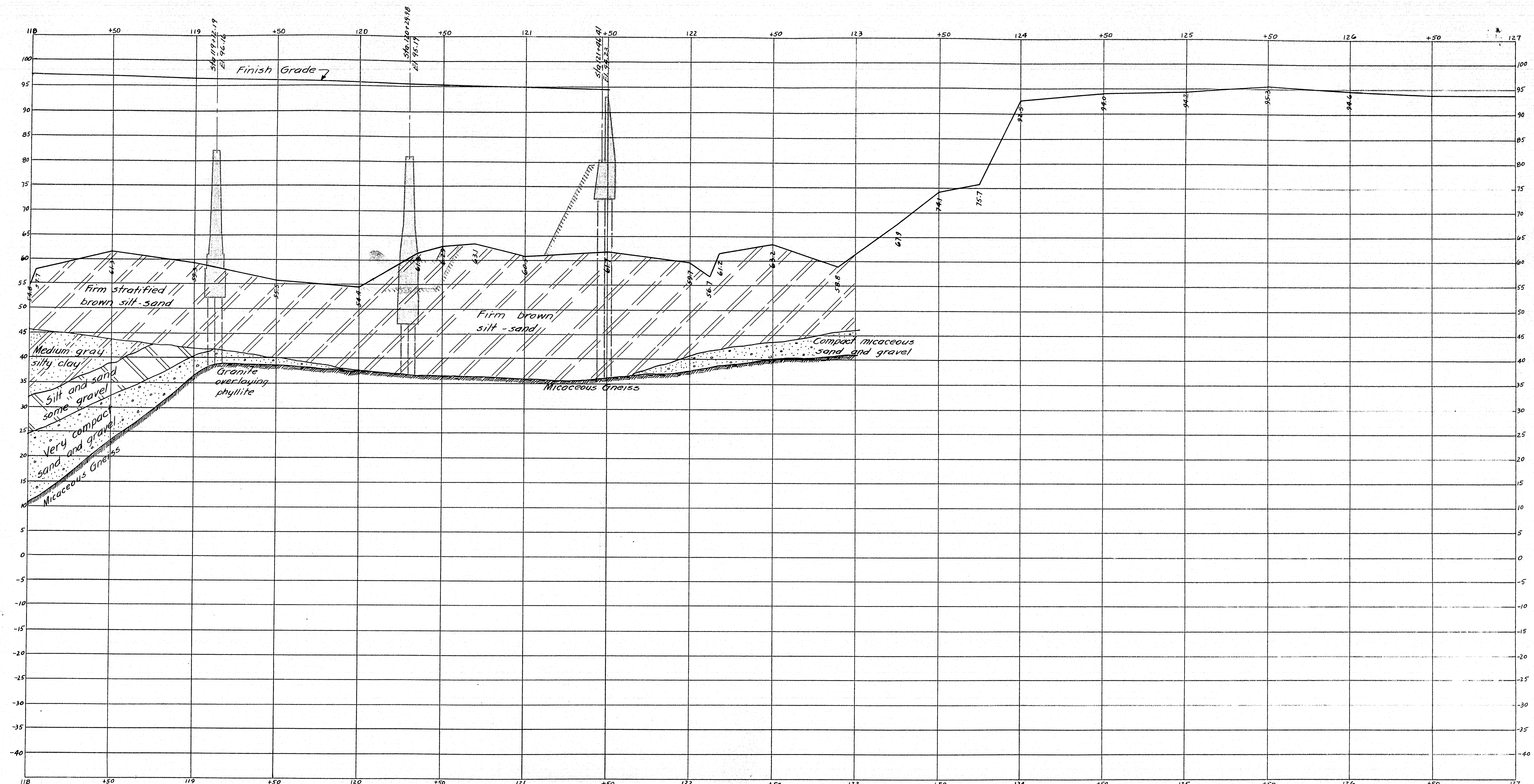
SURVEY - P. JOHNSON
PLAN - BOYD
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
PROFILE
SHEET 7 OF 45
AUGUSTA MAINE
DEC 1945



PROFILE
 SCALES
 HORIZONTAL 1" = 30'
 VERTICAL 1" = 10'

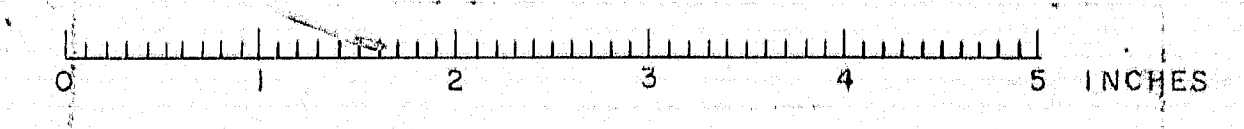
SURVEY - P. JOHNSON
 PLAN - BOYD
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
AUGUSTA BRIDGE
 OVER THE
KENNEBEC RIVER
 IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
 PROFILE
 SHEET 8 OF 45 AUGUSTA MAINE DEC 1945





PROFILE
 SCALES
 HORIZONTAL 1" = 30'
 VERTICAL 1" = 10'

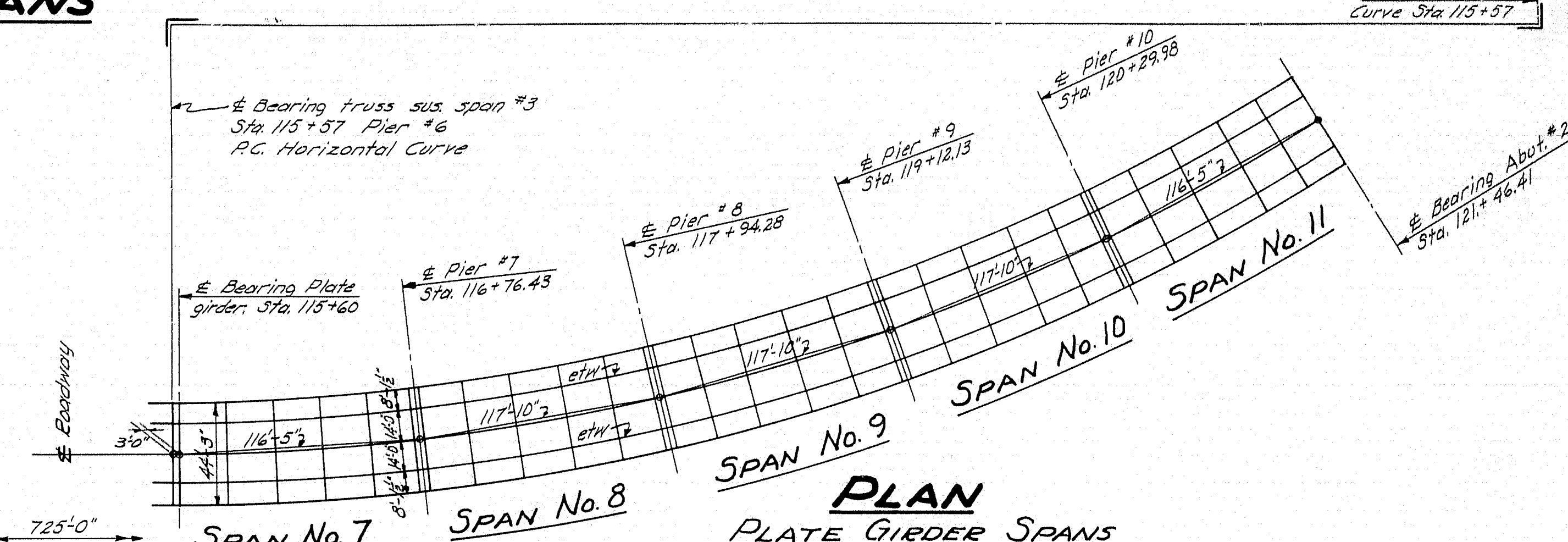
SURVEY - P. JOHNSON
 PLAN - BOYD
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
AUGUSTA BRIDGE
 OVER THE
KENNEBEC RIVER
 IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
 PROFILE
 SHEET 9 OF 45 AUGUSTA MAINE DEC 1945



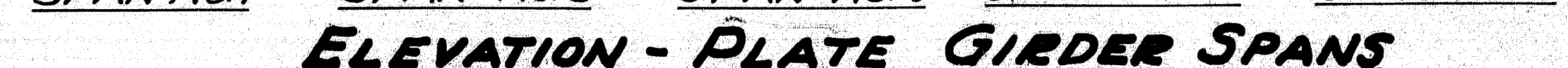


NOTE: Finish grades along center line of roadway are symmetrical about $\pm$ Truss spans. Truss details Symm. about this line except as follows:

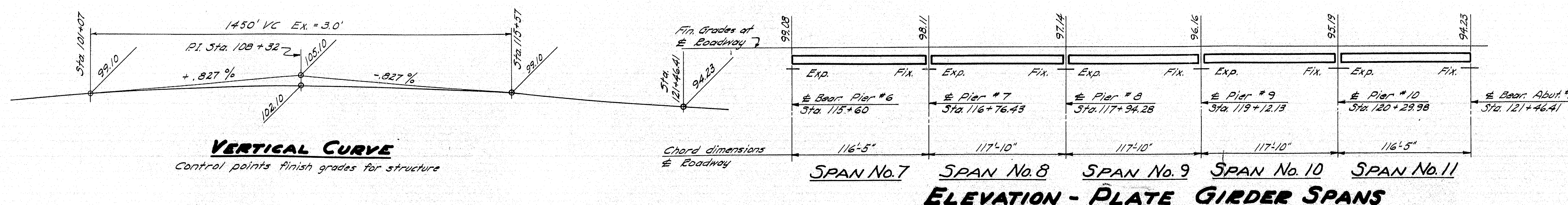
1. Pin and link connections for suspended span #2 to cantilever spans #2 & #3.
2. Sidewalk stringers and connections to Floor-beams in suspended span #3. See table sh. #27
3. Expansion dams.



Scale: 1" = 50'-0"



Sus. Span #1 above top of rail = 26'-6"
Span #10 over Arsenal Street = 27'-0"
Sus. Span #3 over Howard St. = 58'-6"



STATE HIGHWAY COMMISSION BRIDGE DIVISION

ASSOCIATA BRIDGE
OVER THE

OVER THE KENNEBEC RIVER

IN THE CITY OF

AUGUSTA

KENNEBEC COUNTY
GENERAL PLAN & ELEV. OF STRUCTURE,
SHEET 10 OF 45 AUGUSTA MAINE FEB. 1948

SHEET 70 OF 72 AUGUSTA, MAINE FEB. 1948

32-10

100

[illegible]

100

Journal of Management Education 30(6)p.789-804

THE UNIVERSITY OF CHICAGO

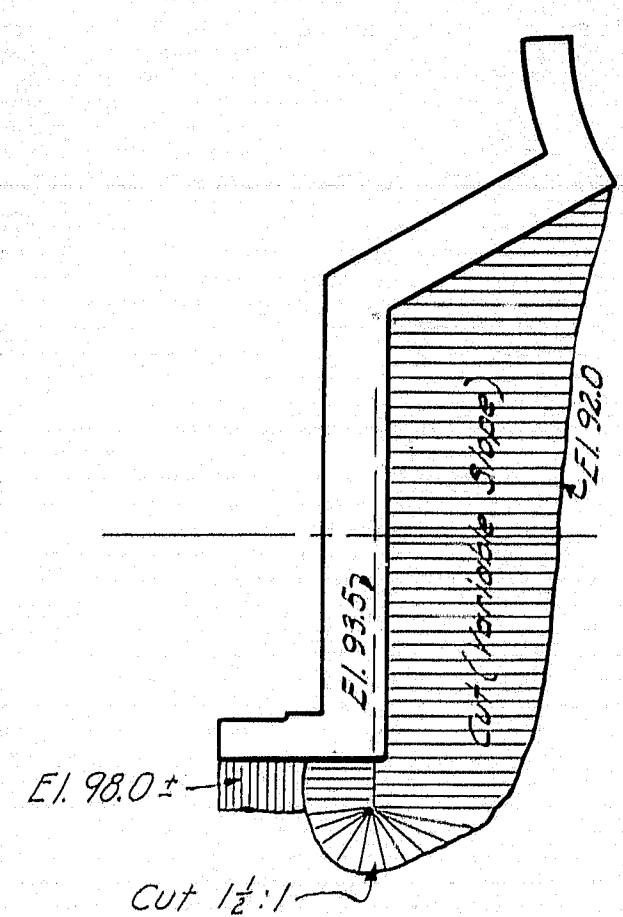
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100

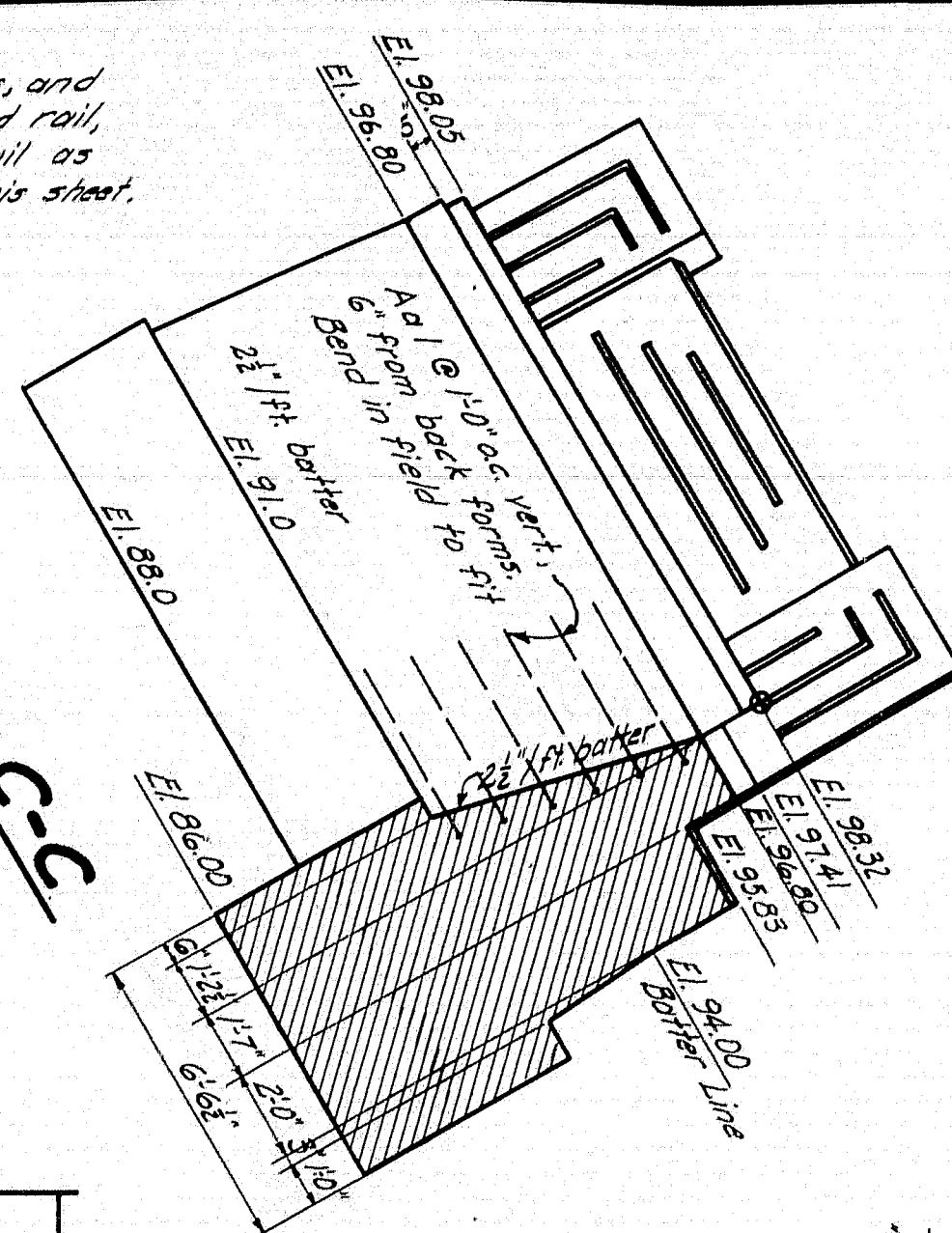
100

NOTE: Details for Panels, and Grooves on posts and rail, are similar to D.S. Rail as shown elsewhere on this sheet.

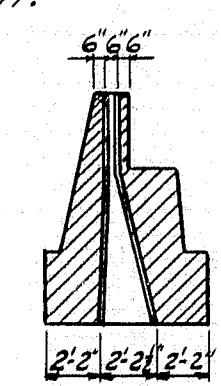
GRADING PLAN



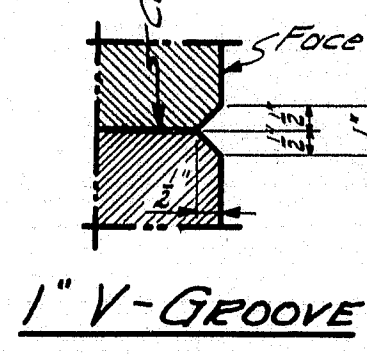
SECT. C-C



NOTE: Dress shaded areas on Bridge Sect. 1" larger all around than bearing plates to exact elevation shown.



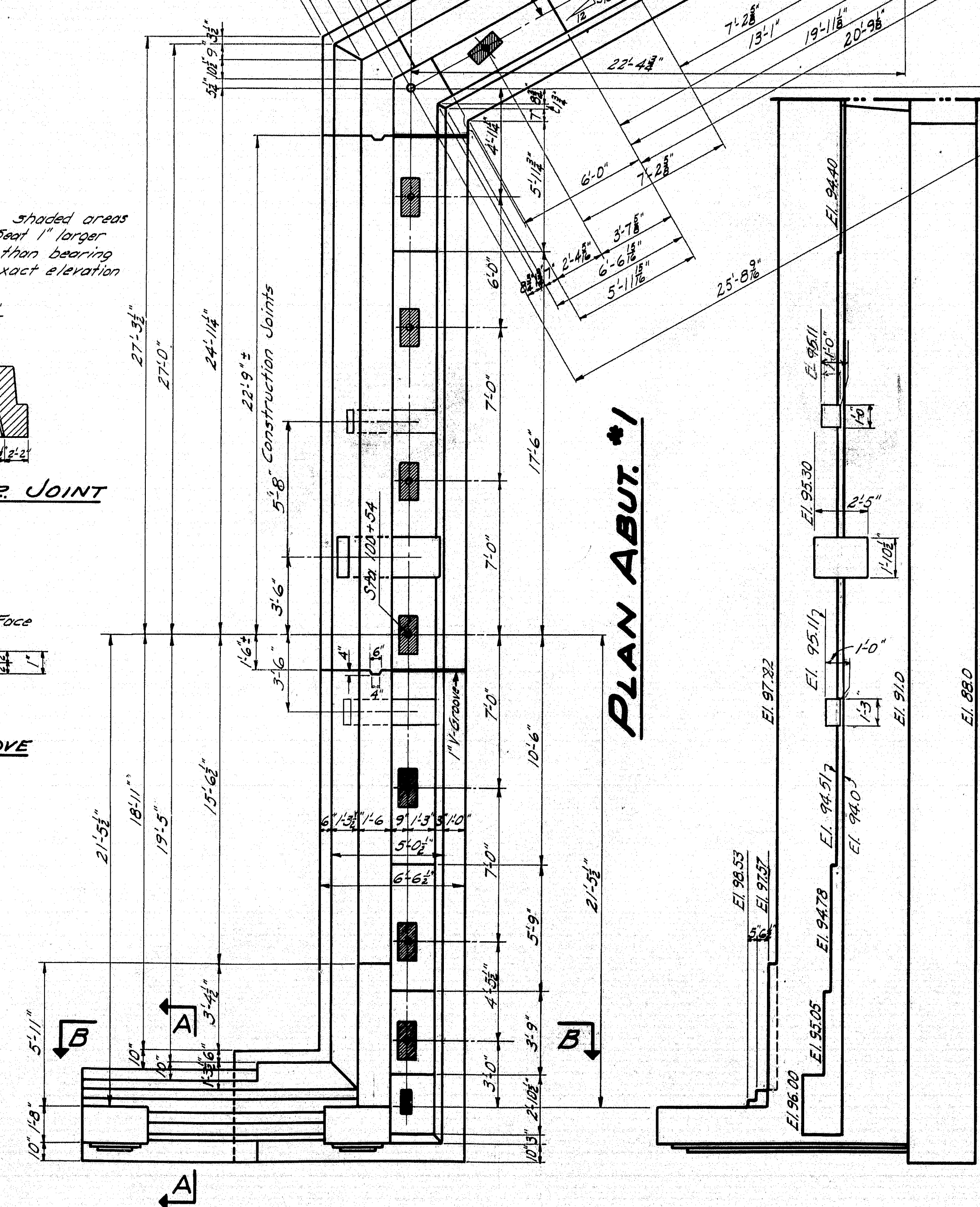
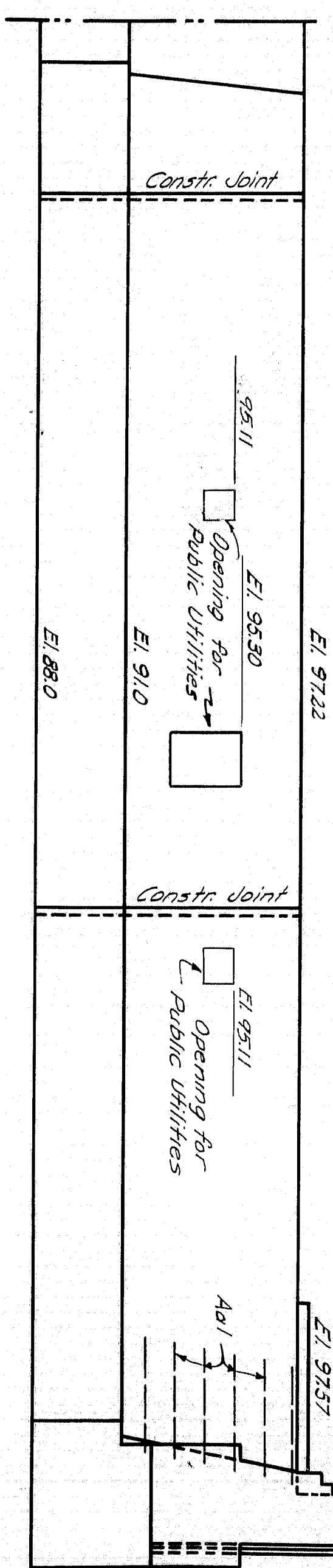
CONSTR. JOINT



1" V-GROOVE

NOTE: The back side of construction joints, is to be covered with two layers of heavy roofing 10" wide. Coat the concrete and the back side of each layer as applied with a suitable grade of roofing cement. The front side of the joints, is to have a 1" V-groove.

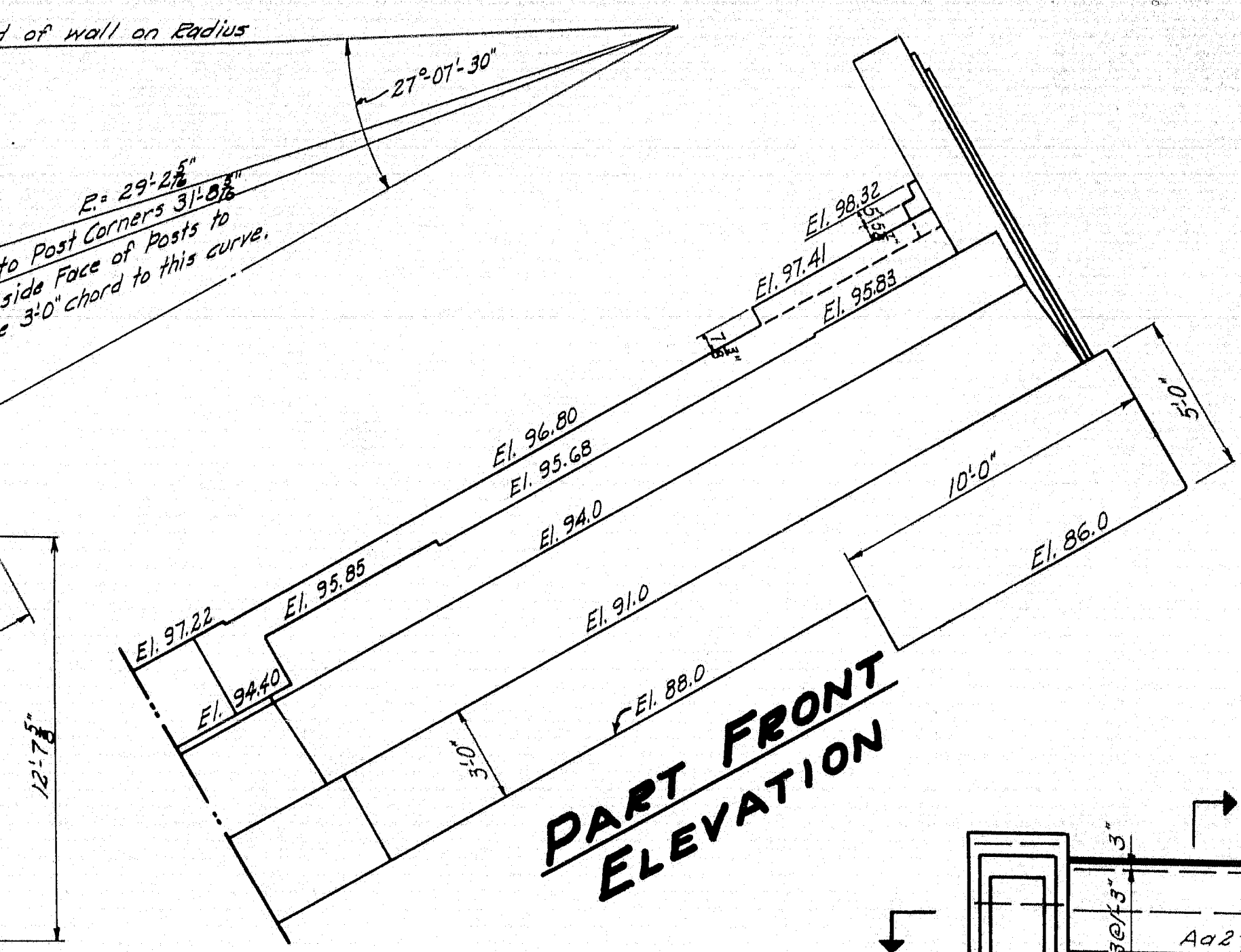
PART REAR ELEV.



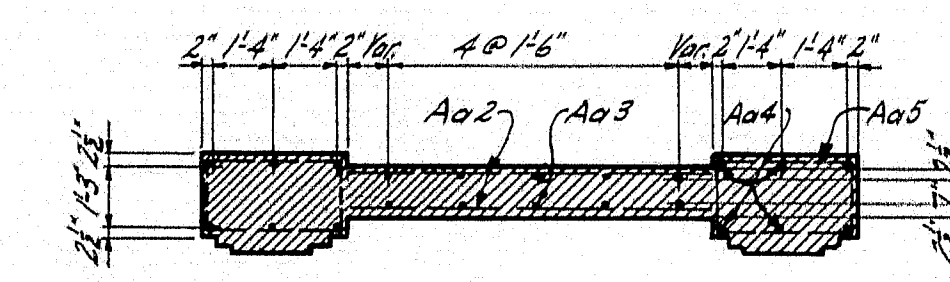
PLAN ABUT. #1

Provide Construction Joint Keyway in end of wall.

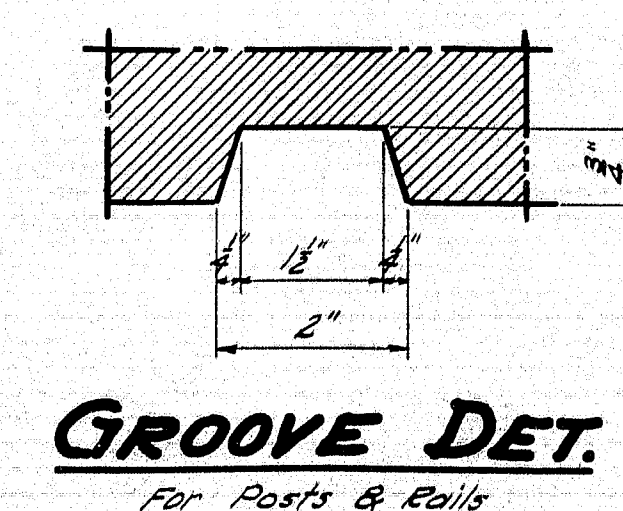
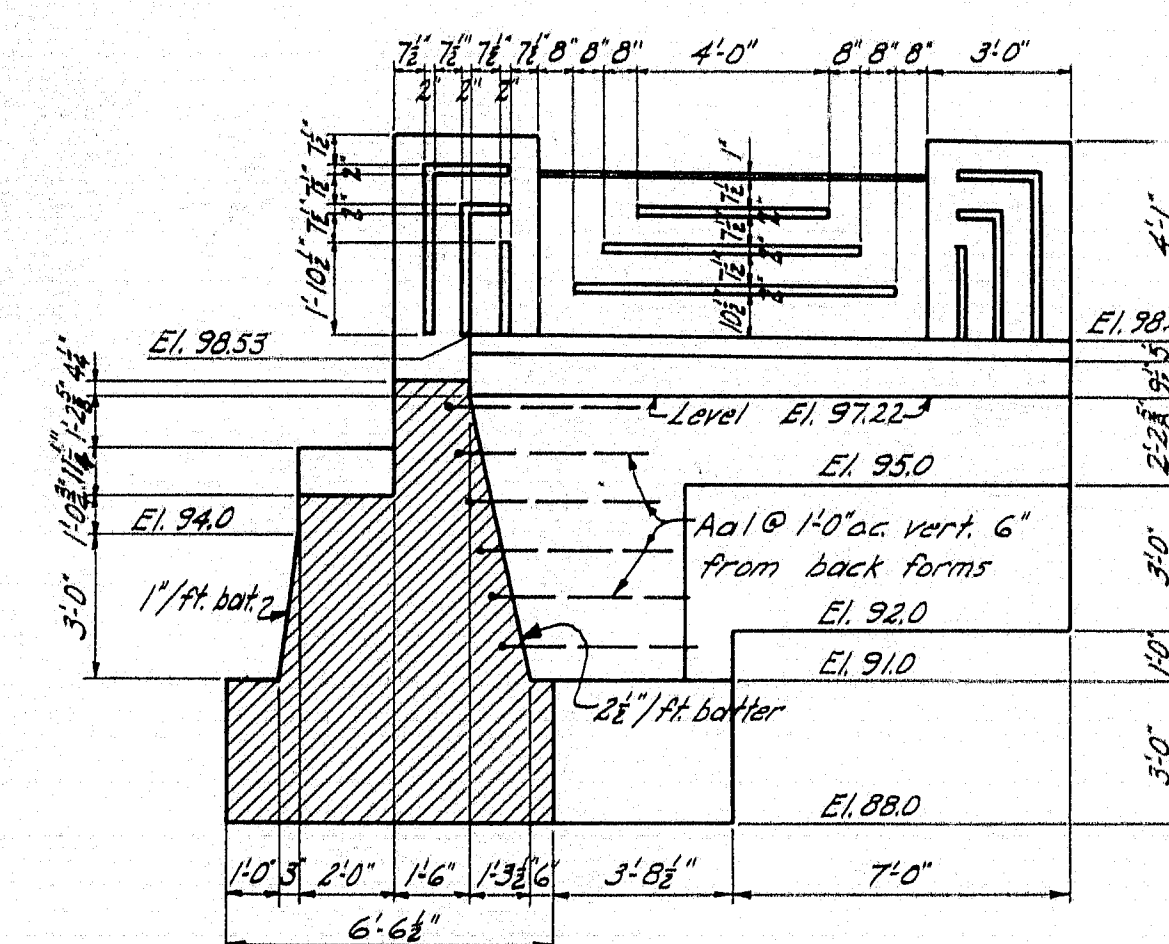
PART FRONT ELEV.



TYPICAL SECT. E-E

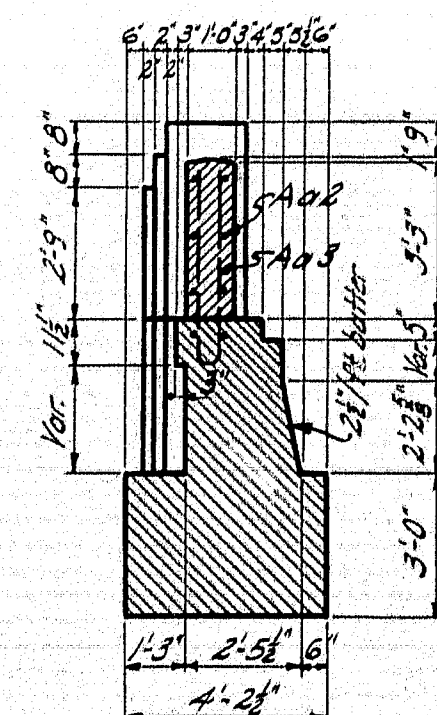


SECT. B-B

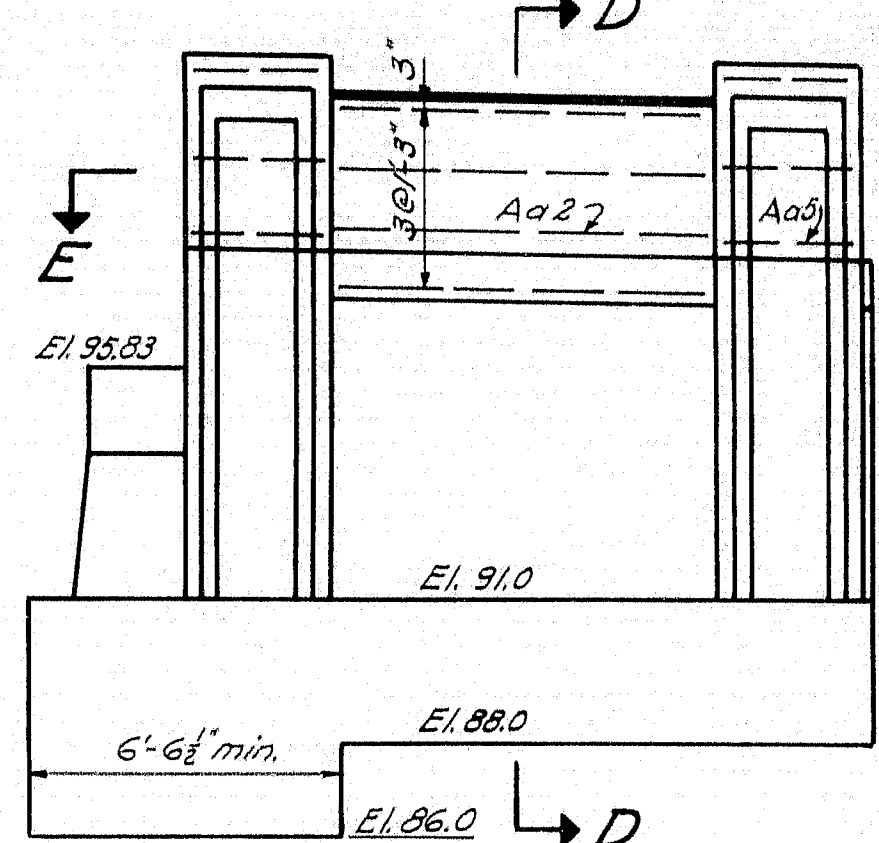
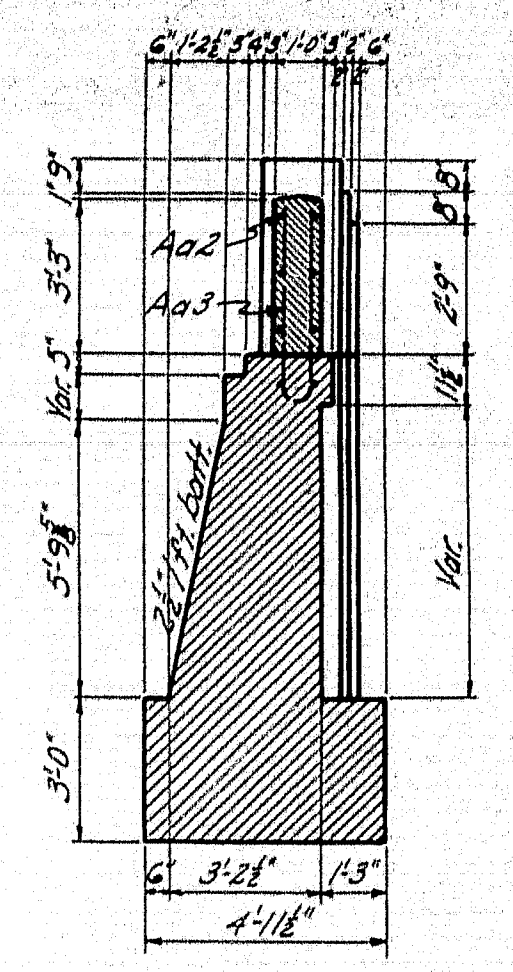


GROOVE DET.
For Posts & Rails

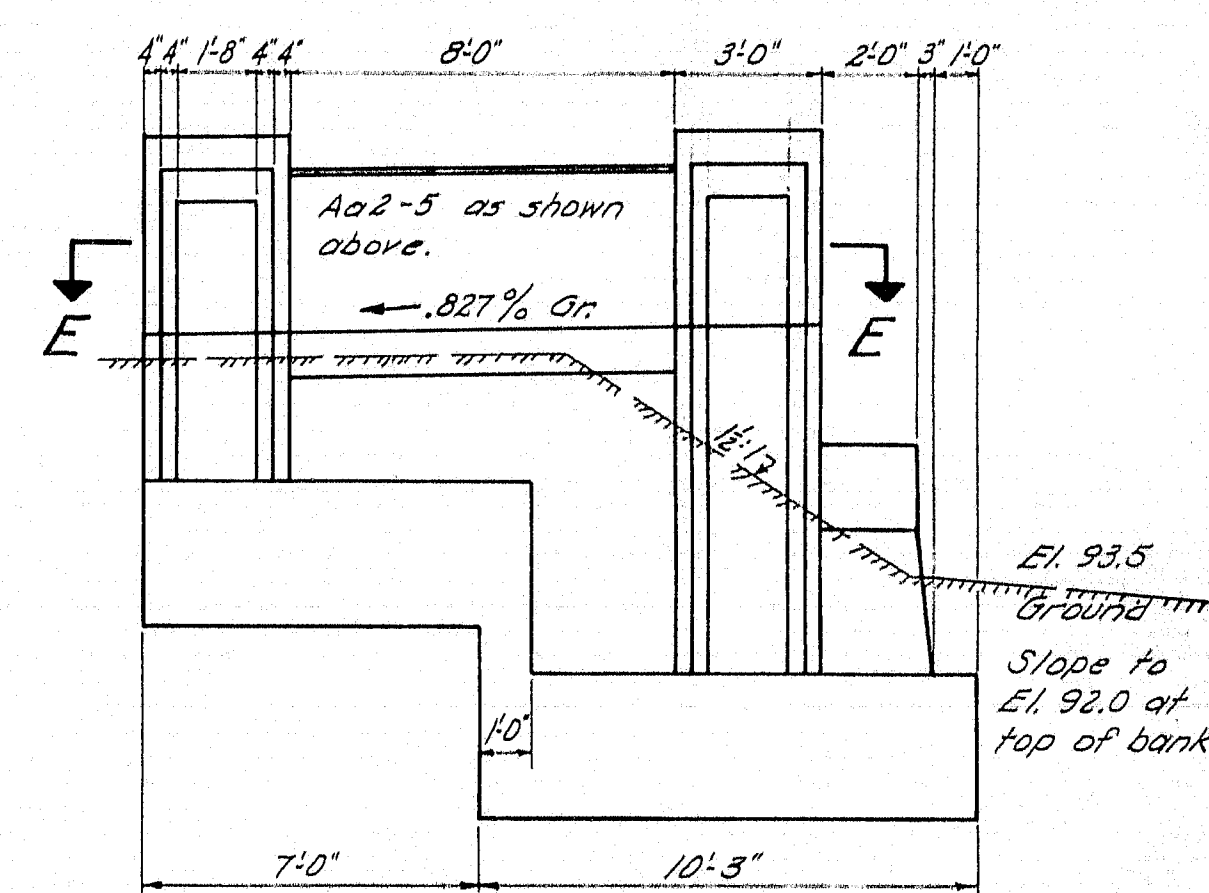
SECT. A-A



SECT. D-D



U.S. SIDE ELEV.
(Developed)



D.S. SIDE ELEV.

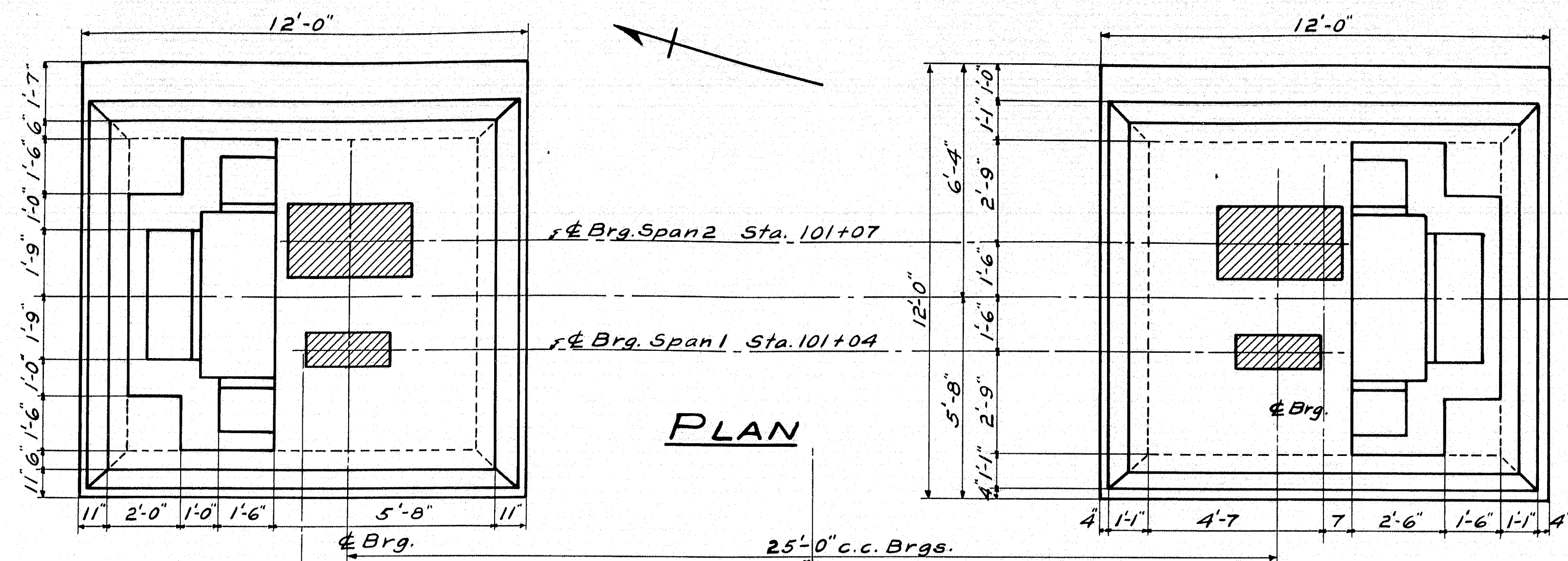
DESIGN - ALLEN	TRACE - CLARK	BRIDGE - 5196
DETAIL - "	CHECK - Hamill	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
ABUTMENT NO. 1 AUGUSTA, MAINE		

SHEET 12 OF 45

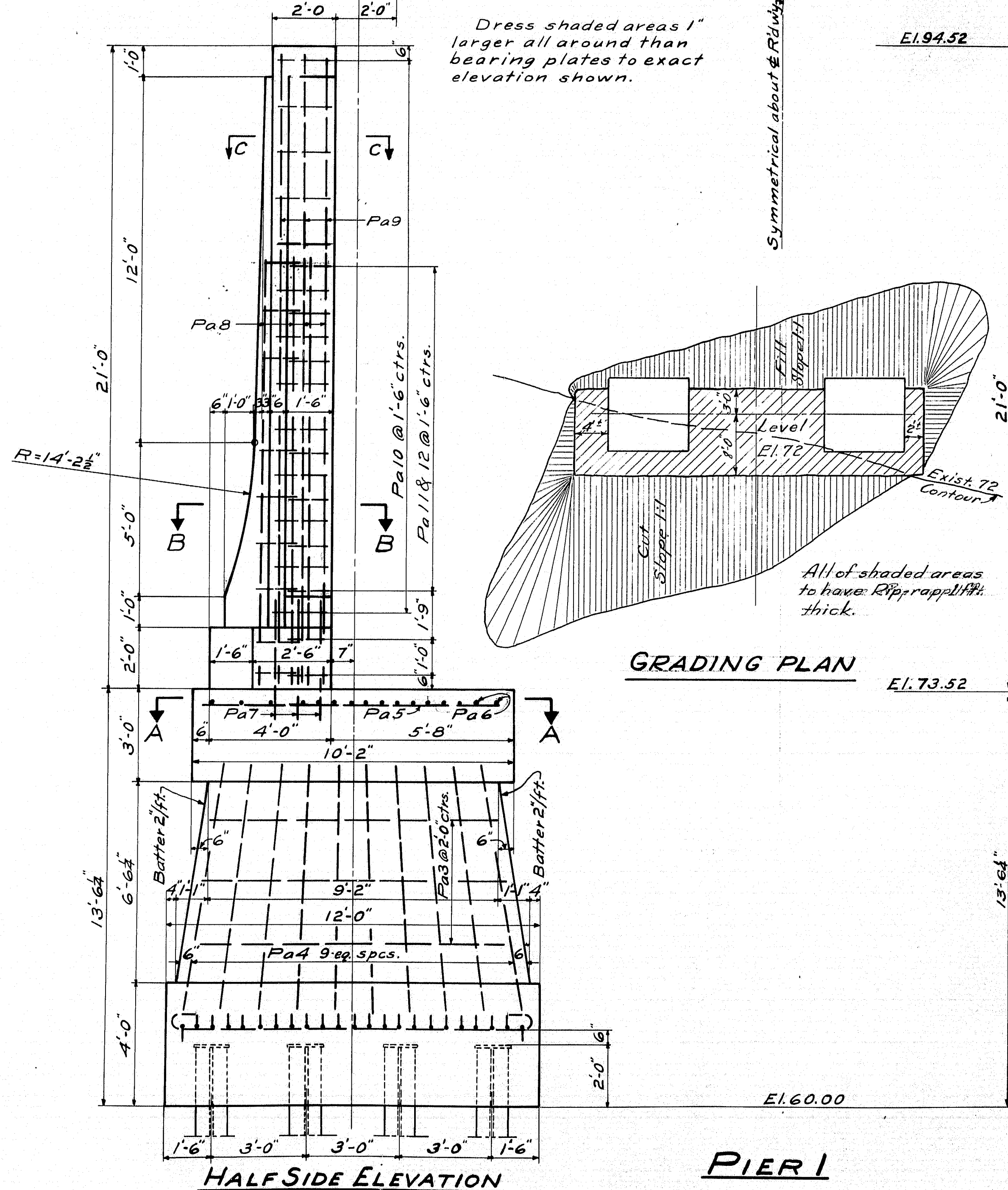
Revised 8-17-83 opening for R.R. down stream side
9-30-80

52-12

P.R.A.	STATE	F.D. AID	SHEET	TOTAL
DIV. NO.	NO.	PROJ. NO.	NO.	SHEETS
1	MAINE	21,112-209(1)	13	45

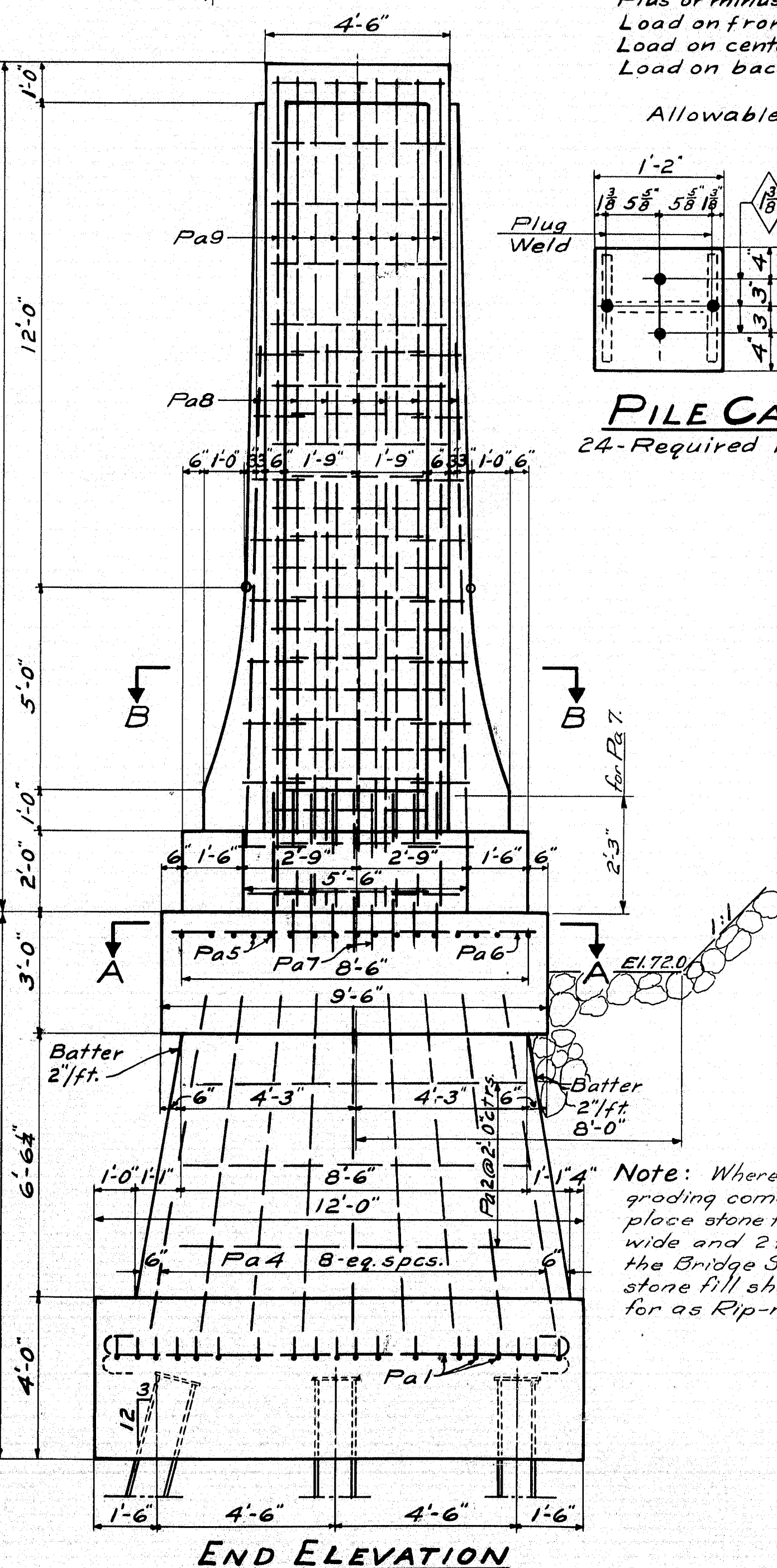


PLAN



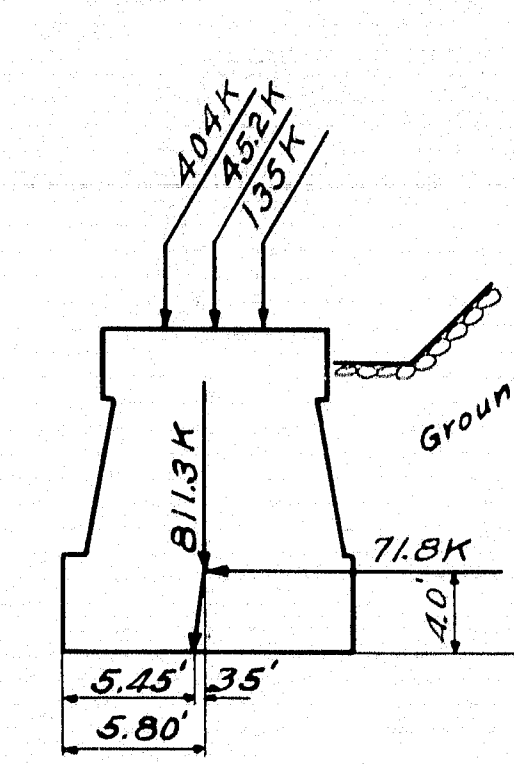
HALF SIDE ELEVATION

PIER 1



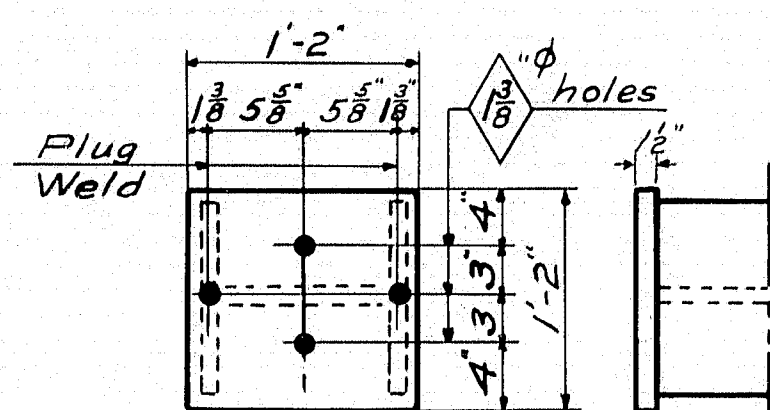
END ELEVATION

① D.L., L.L., S.W. & Earth P.



Direct load on piles 33.8 Tons/pile
Plus or minus for eccentricity 6.2 Tons
Load on front row 40.0 Tons
Load on center row 33.8 Tons
Load on back row 27.6 Tons

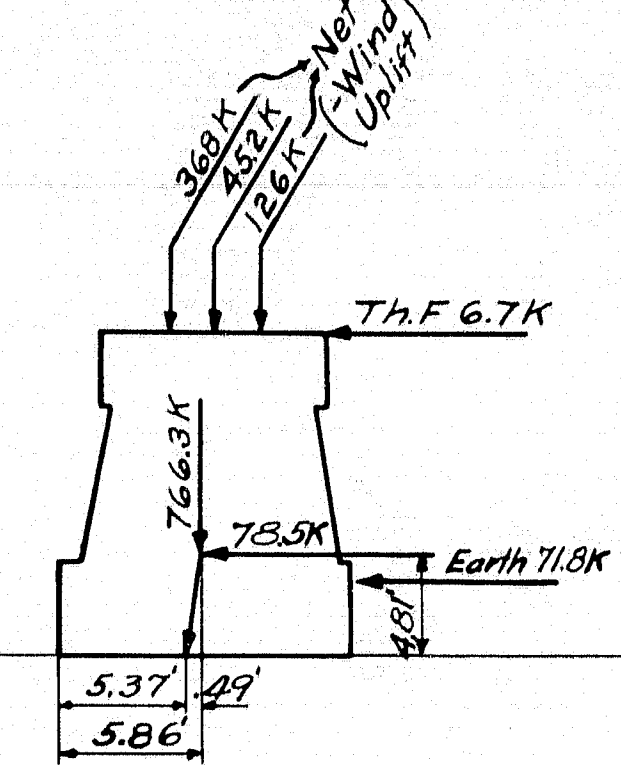
Allowable load 46.7 Tons



PILE CAP
24-Required 14 1/2 x 1-2"

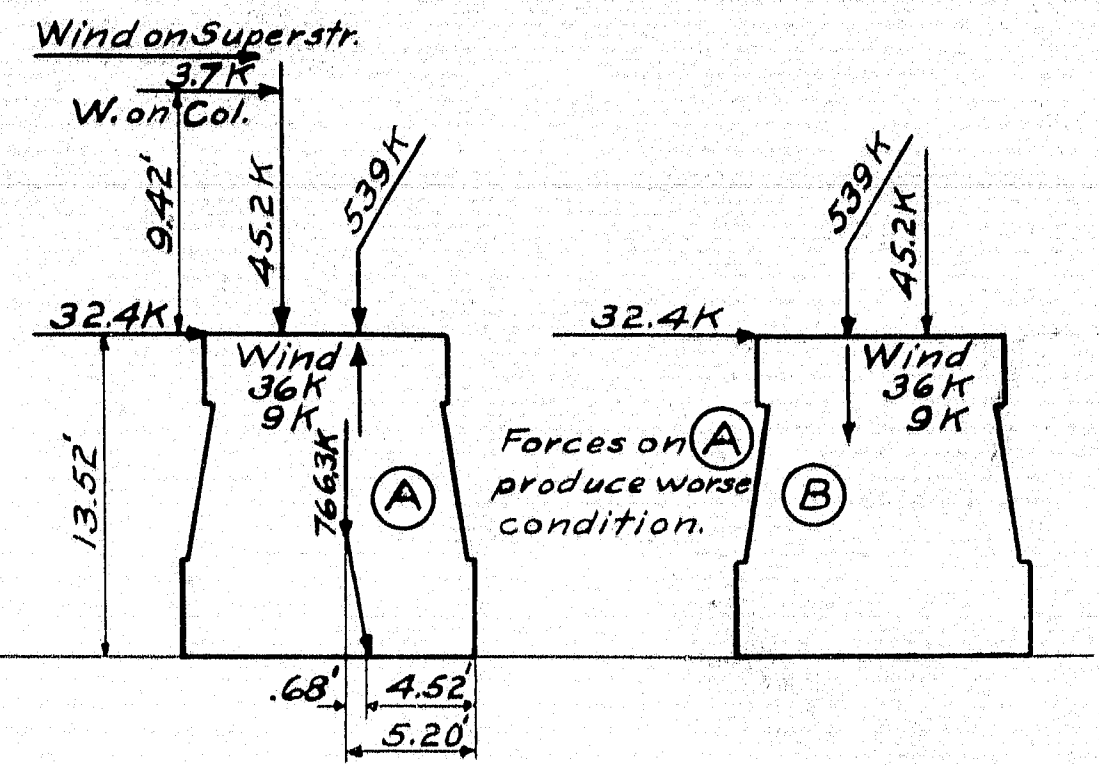
Conditions of Loading

② D.L., L.L., S.W., Earth P.
Thermal F. & Wind



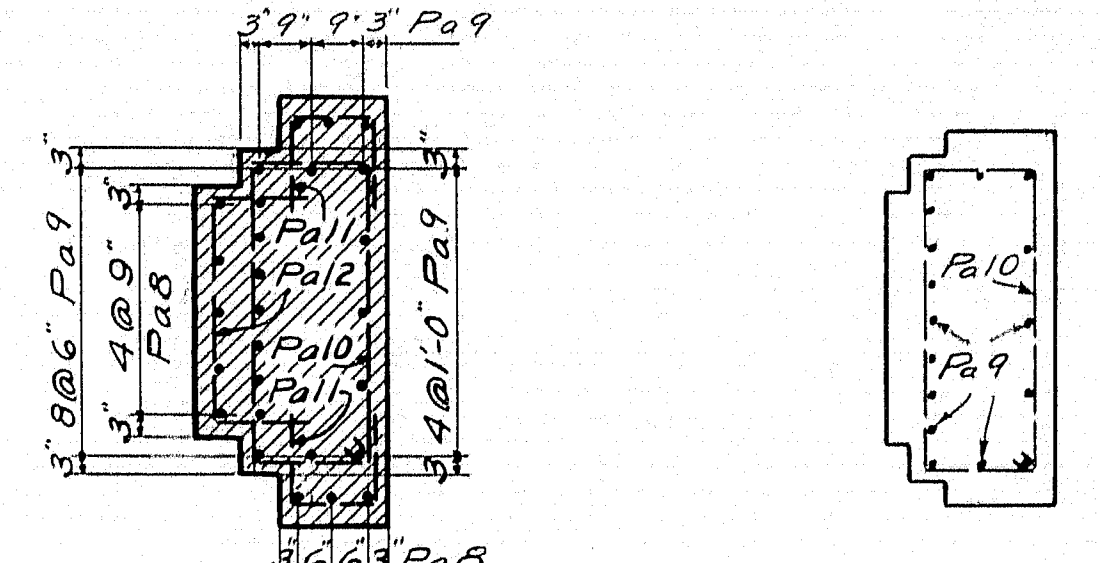
Direct load on piles 31.9 Tons/pile
Plus or minus for eccentricity 6.6 Tons
Load on front row 38.5 Tons
Load on center row 31.9 Tons
Load on back row 25.3 Tons

③ As for ② & work together.



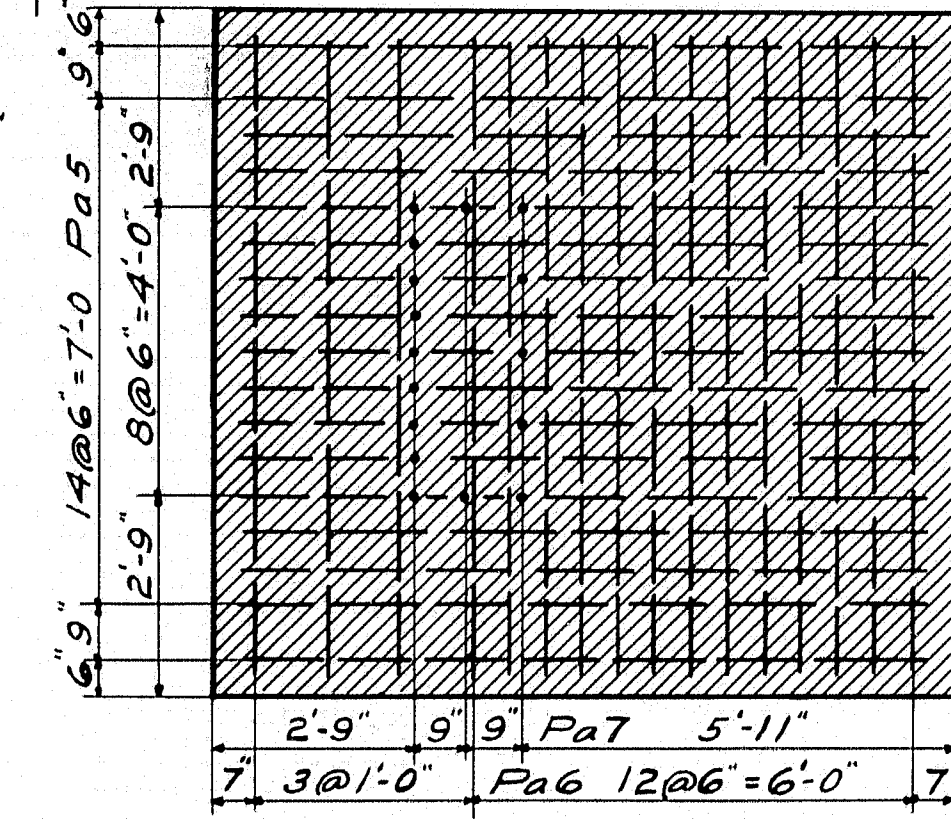
Load on front corner pile
from condition ② 38.5 Tons
Plus for eccentricity 18.9 Tons
Max. load on corner pile 57.4 Tons

Allowable load 58.4 Tons

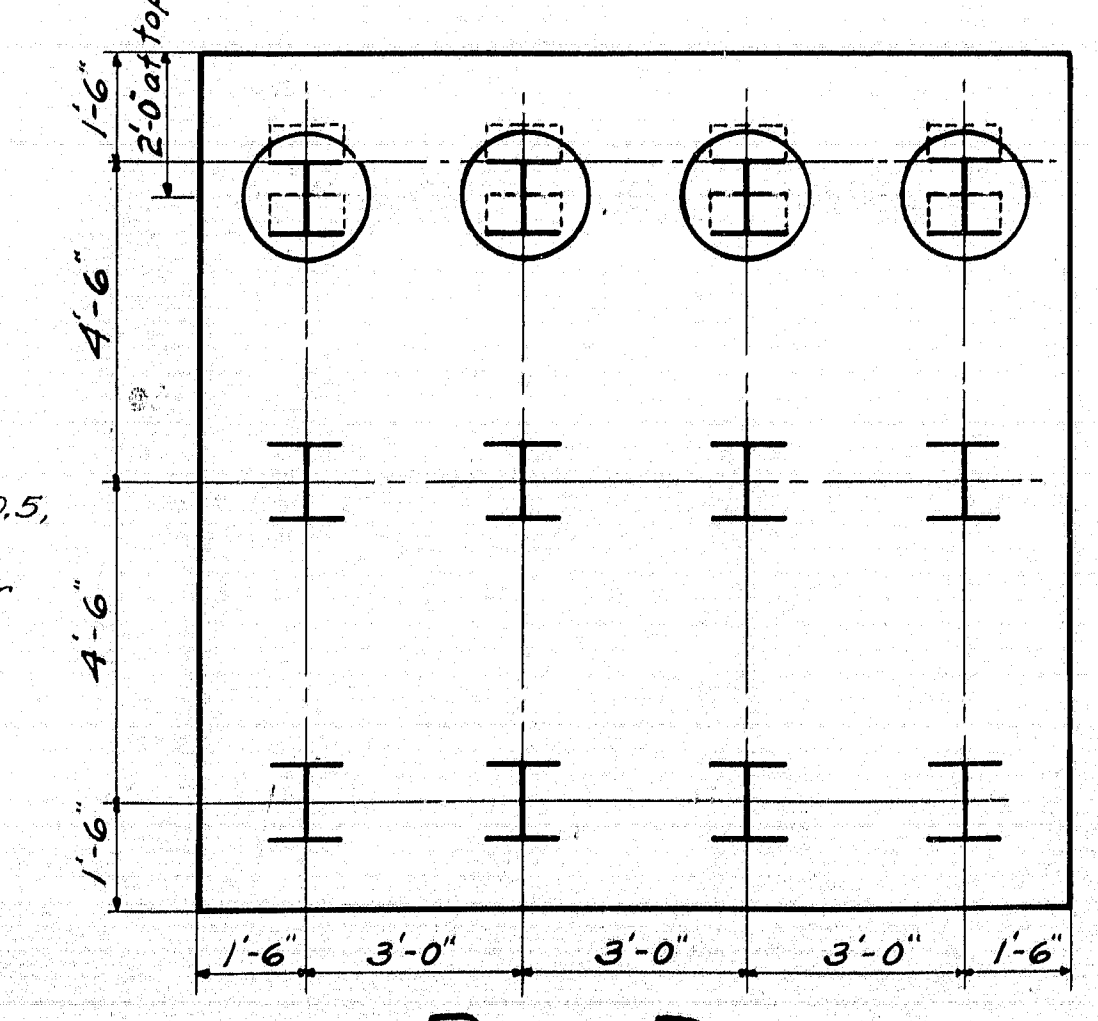


SECTION B-B

SECTION C-C



SECTION A-A

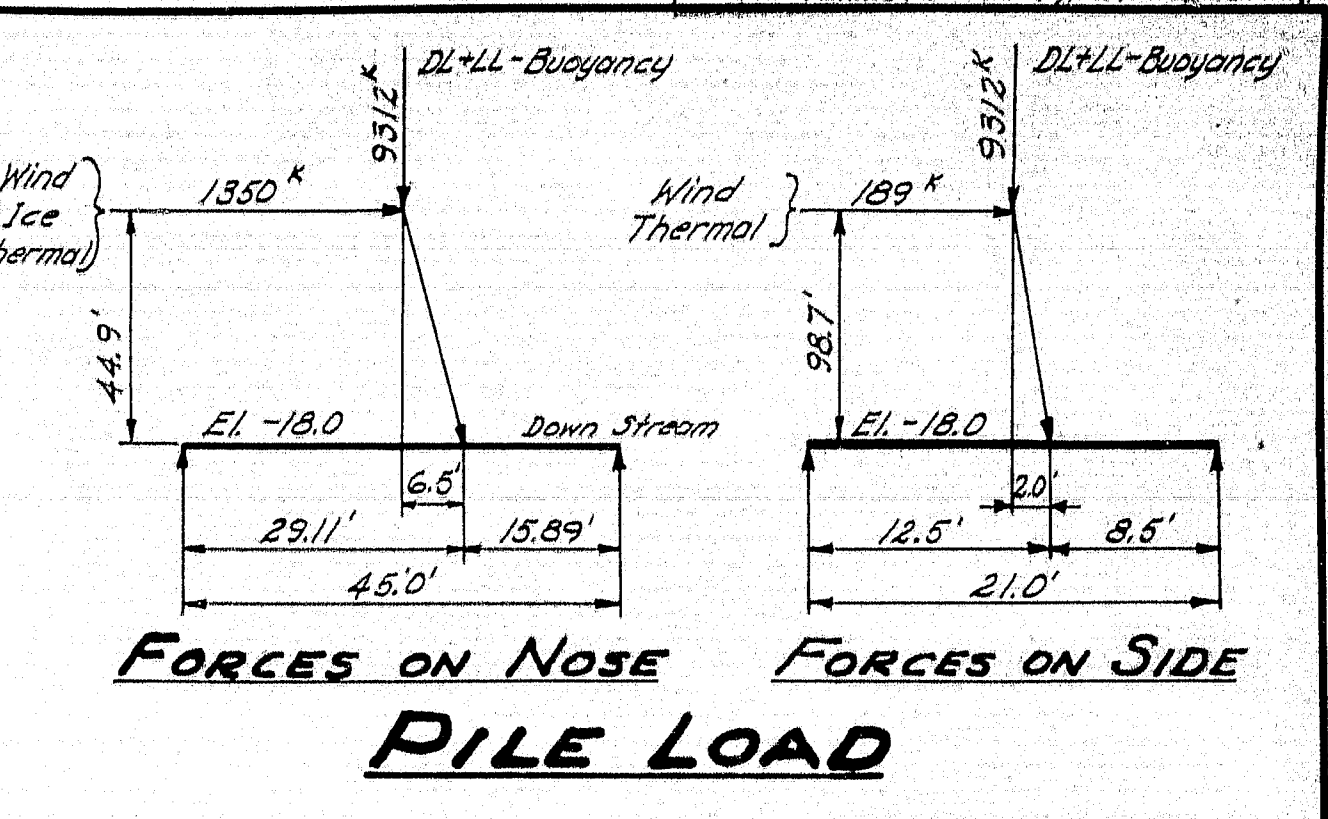
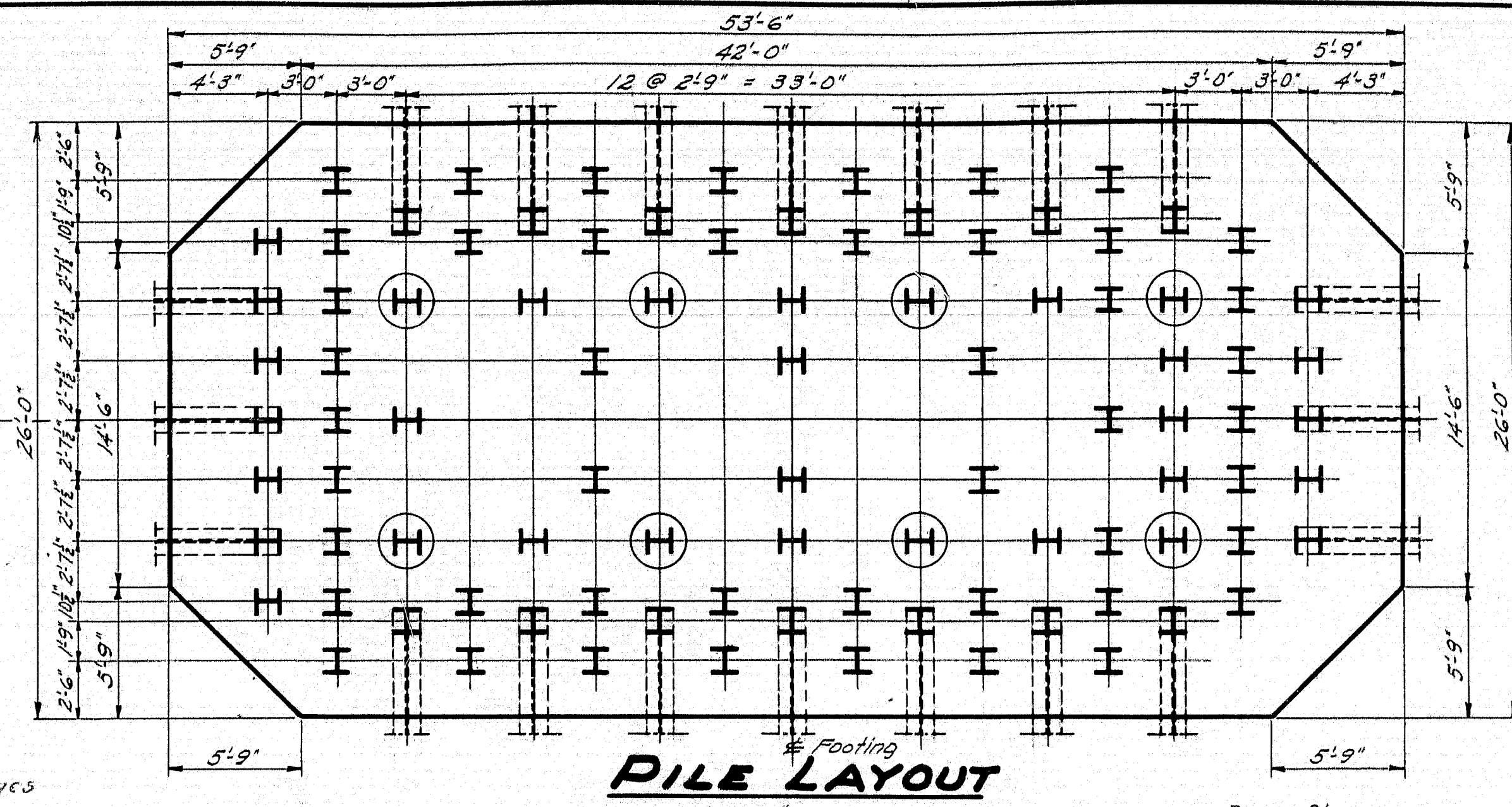
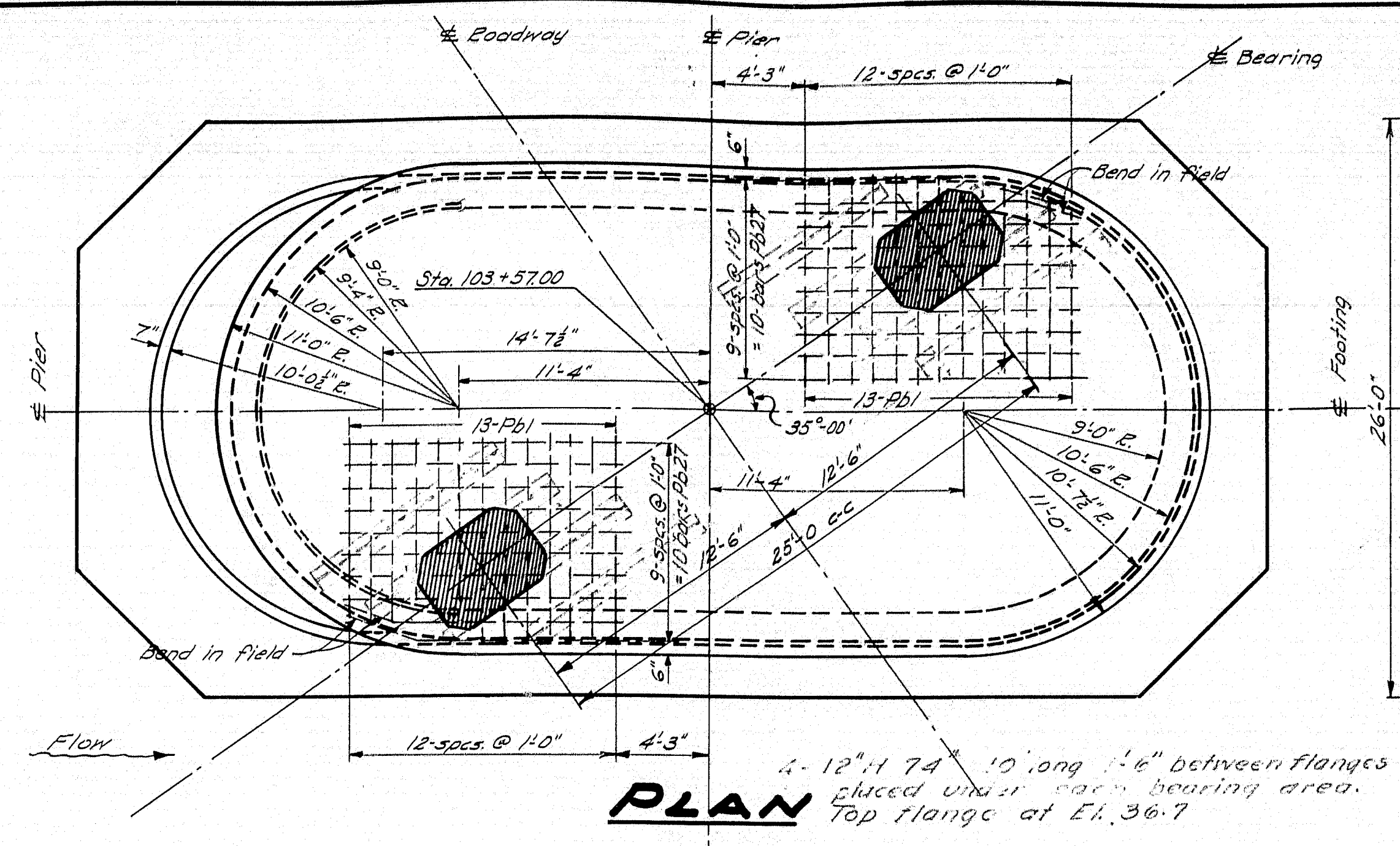


PILE PLAN

Piles in circles to be battered 3"/ft.
Piles to be 12 x 53". Estimated length 30ft.
24-Required.

DESIGN - ALLEN	TRACE - WHITE	CHECK - G.W.S.	BRIDGE - 5196
DETAIL - "			
STATE HIGHWAY COMMISSION BRIDGE DIVISION			
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY			
PIER NO. 1			
SHEET 13 OF 45 AUGUSTA, MAINE FEB. 1948			

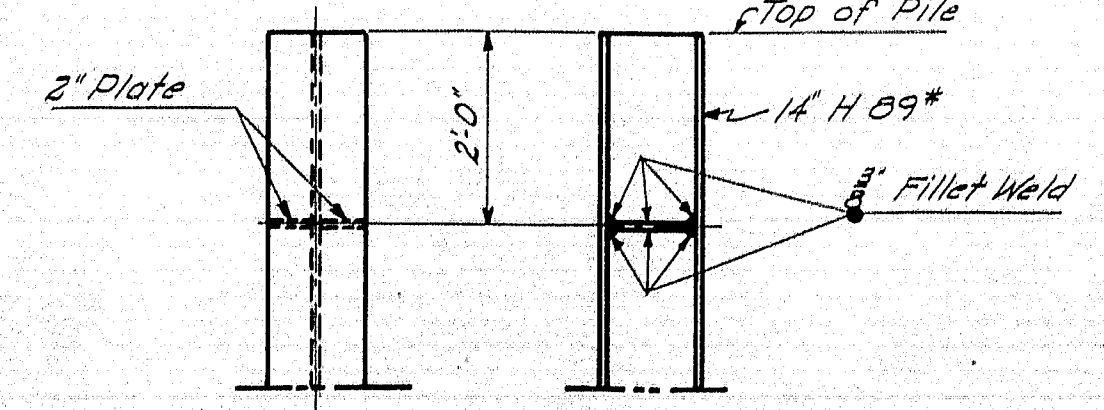
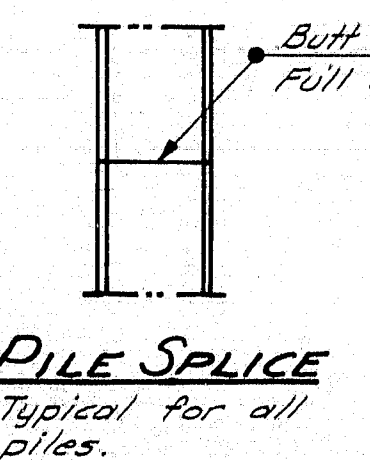
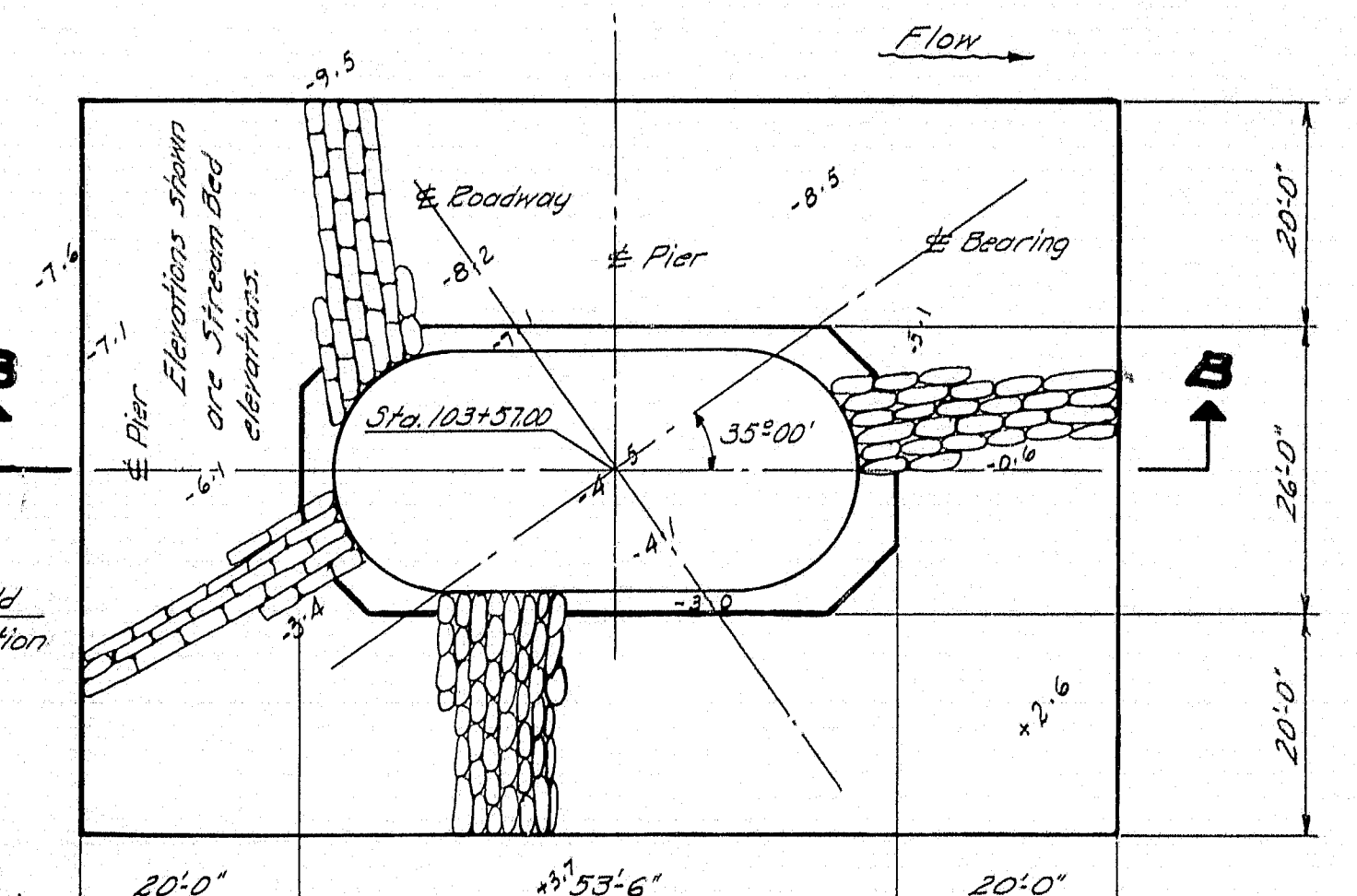
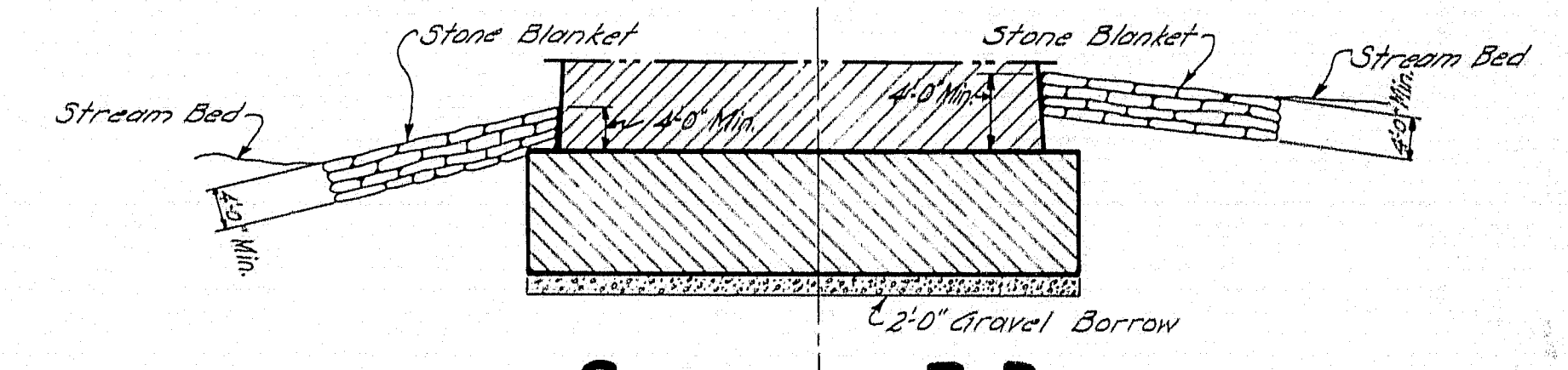
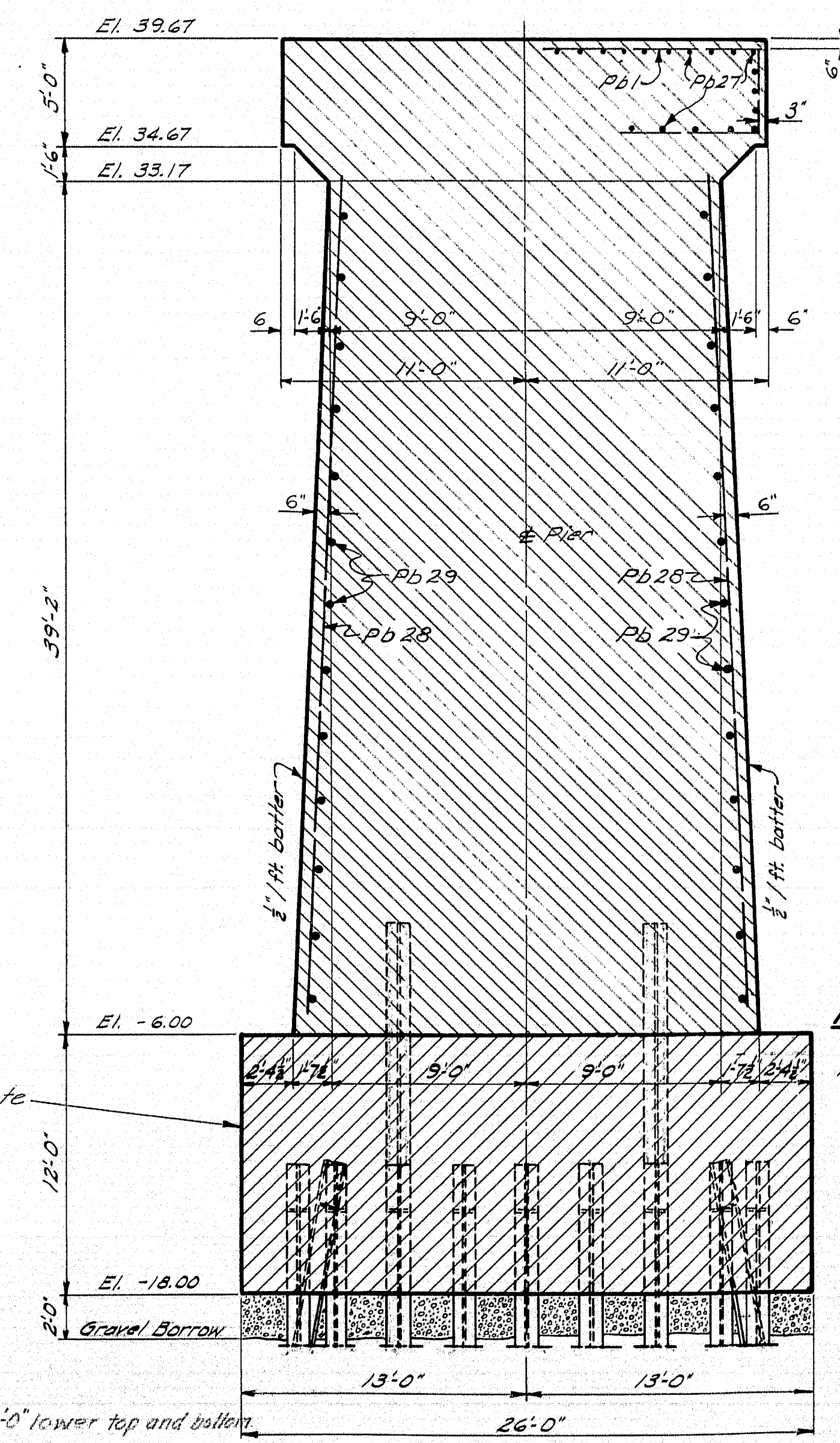
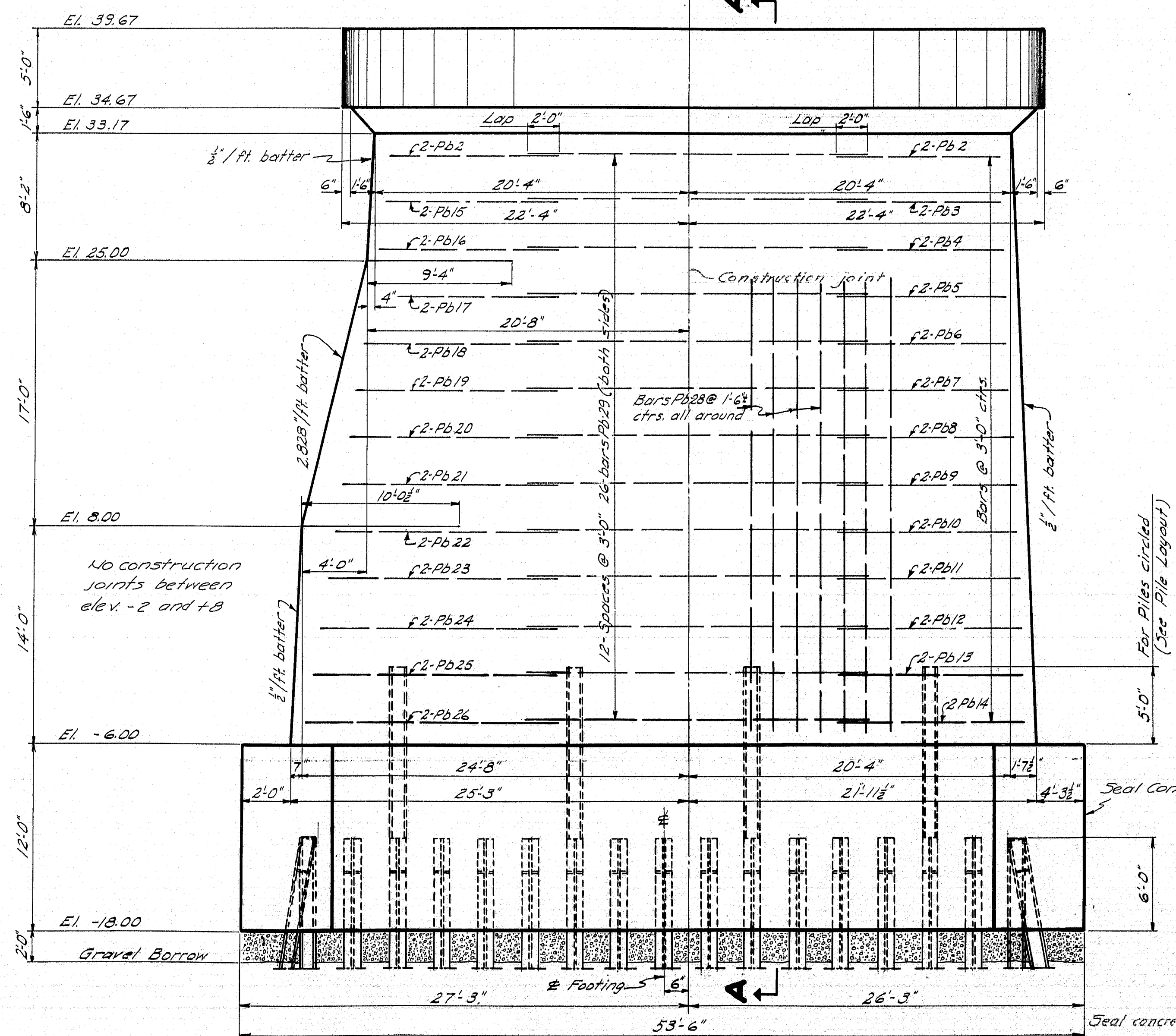
NOTE: Dress shaded bearing areas 1" plates and to exact elevation. Space reinforcing steel to clear anchor bolts.



PILE SUMMARY

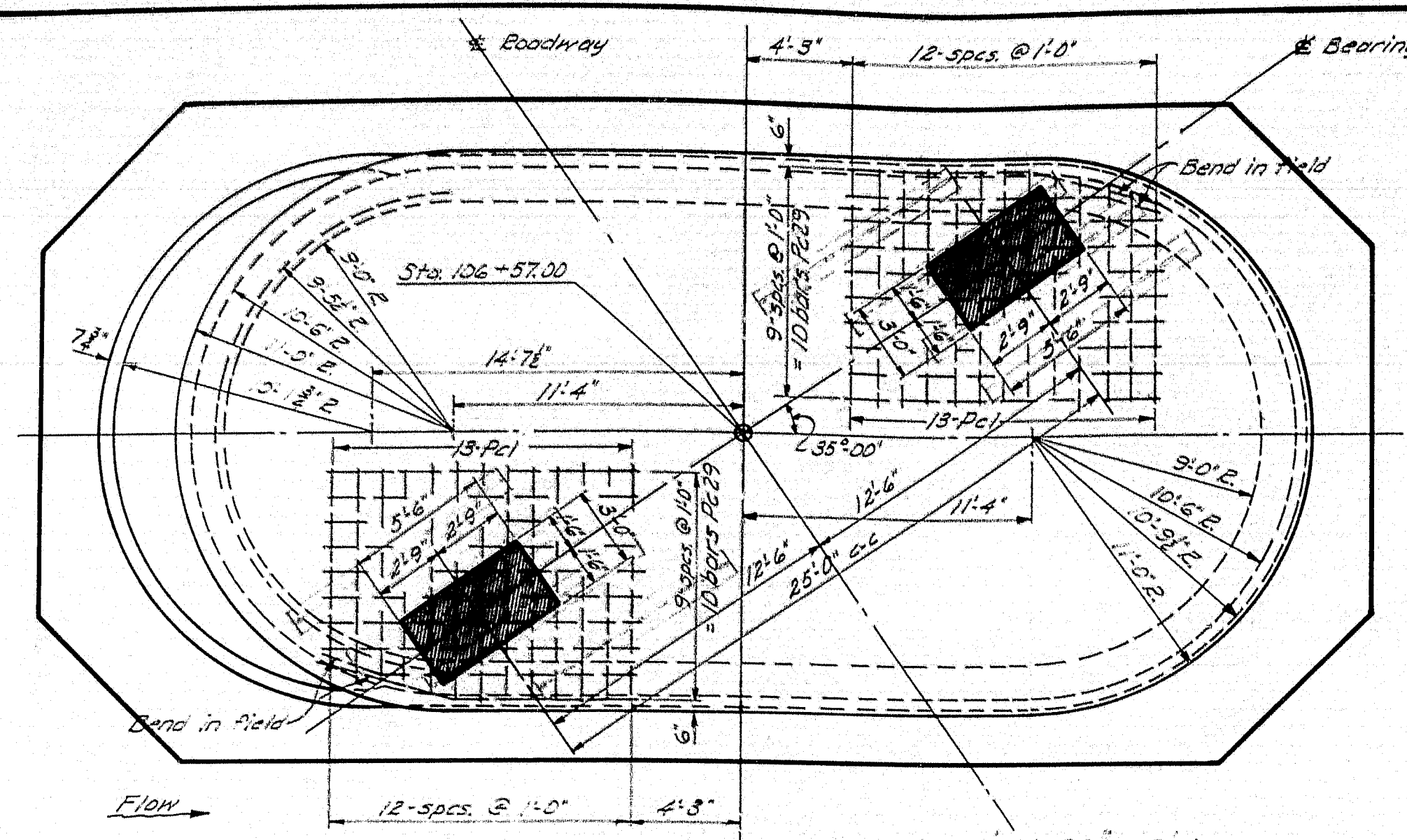
Direct Load	Combination
55 Tons	50.1 Tons Direct
	31.9 Forces on nose
	16.3 Forces on side
	98.3 Tons Total

Allowable Pile Load 78.6 Tons

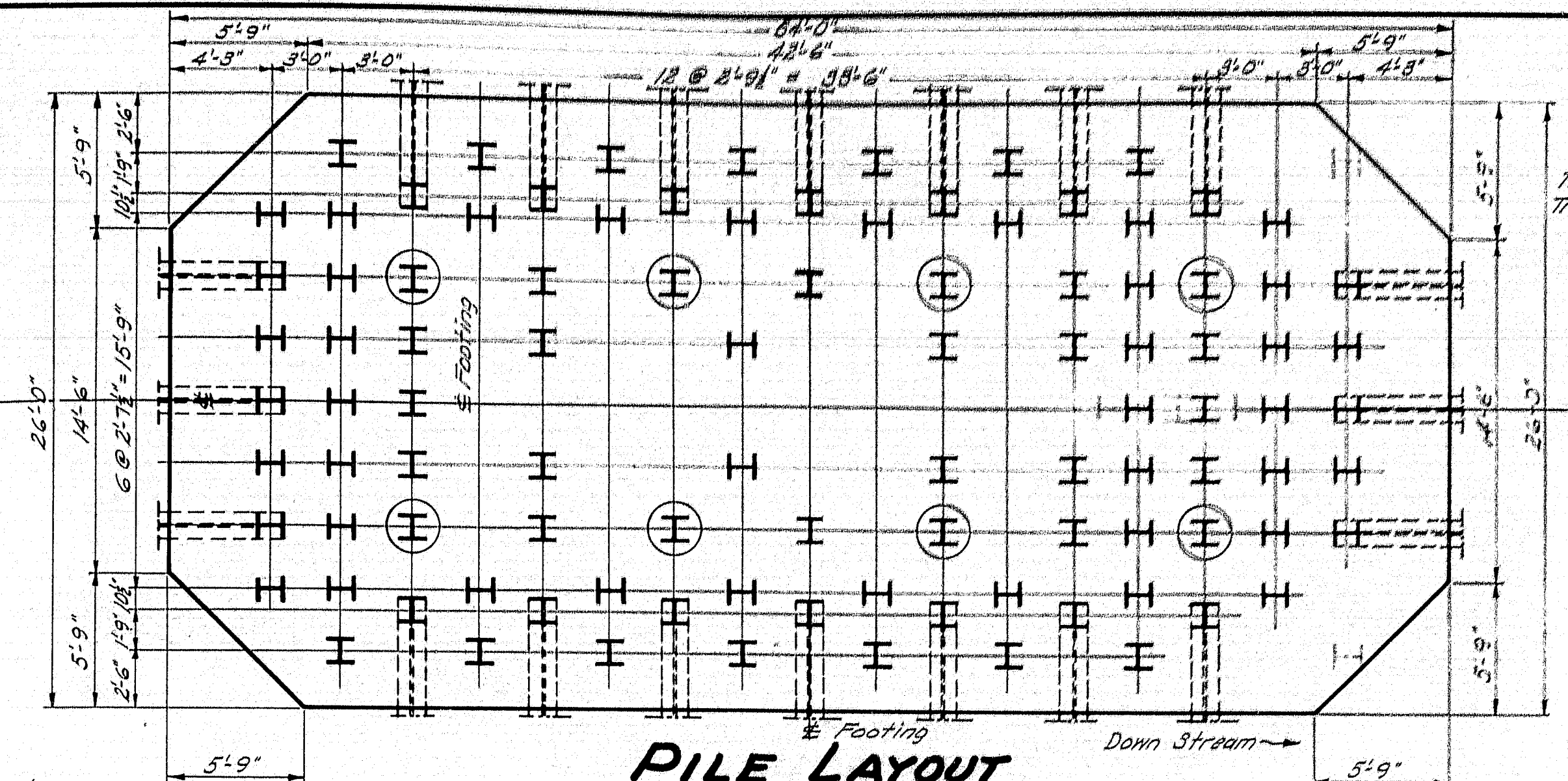


DESIGN - EVERETT TRACE-CLARK
DETAIL - WHITE CHECK - Ca 3
BRIDGE - 5196
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
PIER NO. 2
SHEET 14 OF 45 AUGUSTA, MAINE FEB. 194

NOTE: Dress shaded bearing areas plus 1" all around to exact elev. Space reinforcing steel to clear anchor bolts.

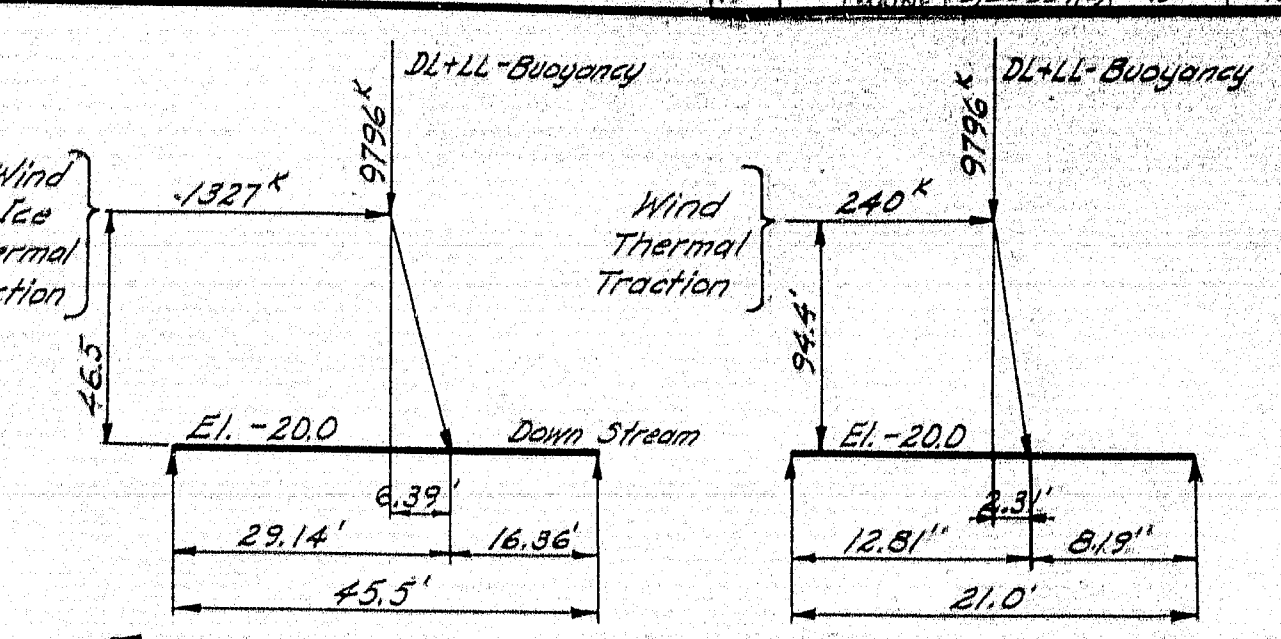


PLAN



PILE LAYOUT

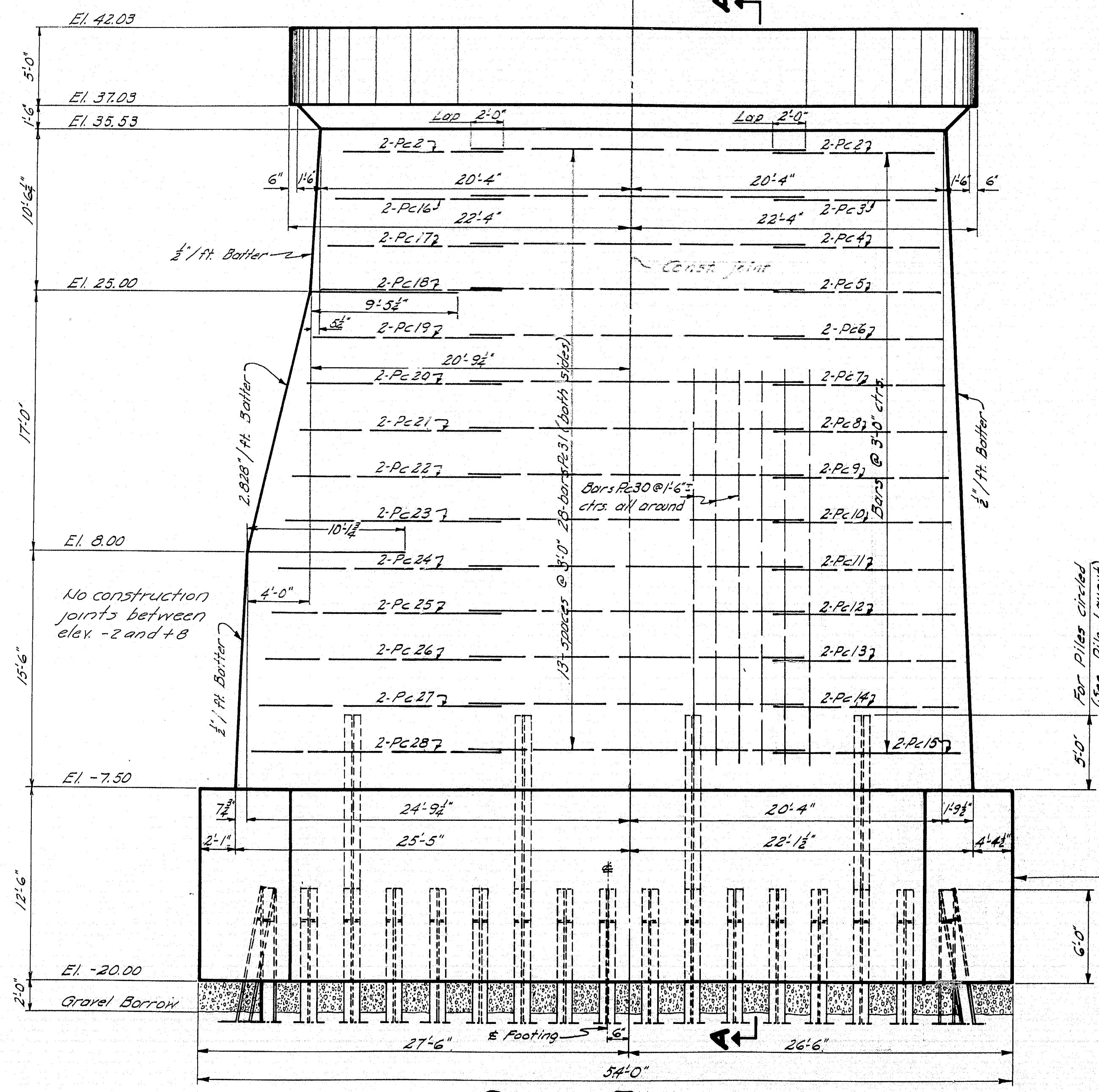
Required 99 Piles 14" H 89#
Estimated length, 60 ft for piles ending in footing, and 72 ft for piles extending into shaft. Batter piles 2-inches per foot. Circled piles extend into shaft of Pier 5 ft. (See Side Elevation)



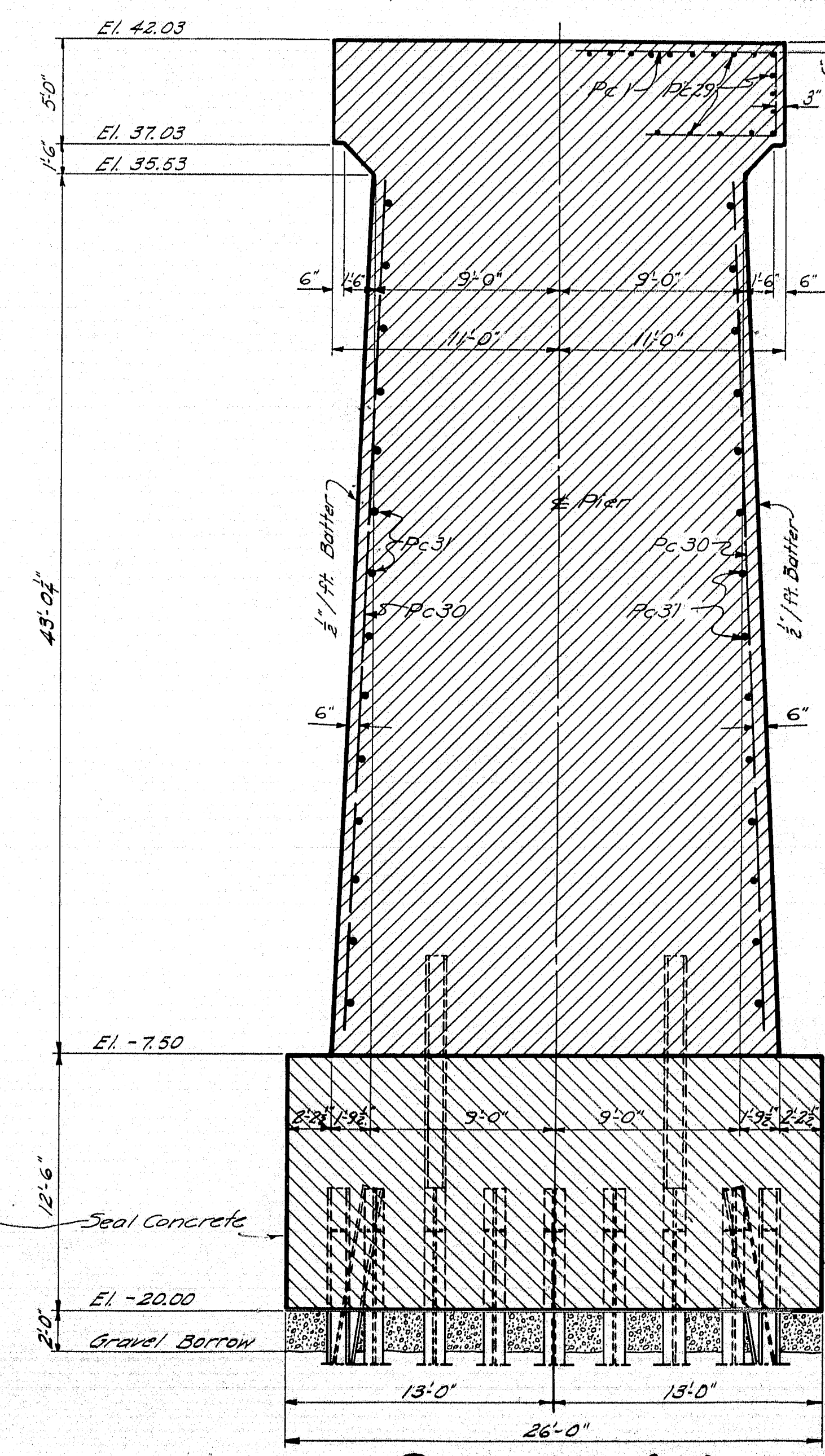
PILE SUMMARY

Direct Load	Elimination
48.5 T Direct	48.5 T Direct
28.9 T on nose	28.9 T on nose
19.6 T on side	19.6 T on side
98.0 Tons Total	98.0 Tons Total
Allowable Pile Load 78.6T	

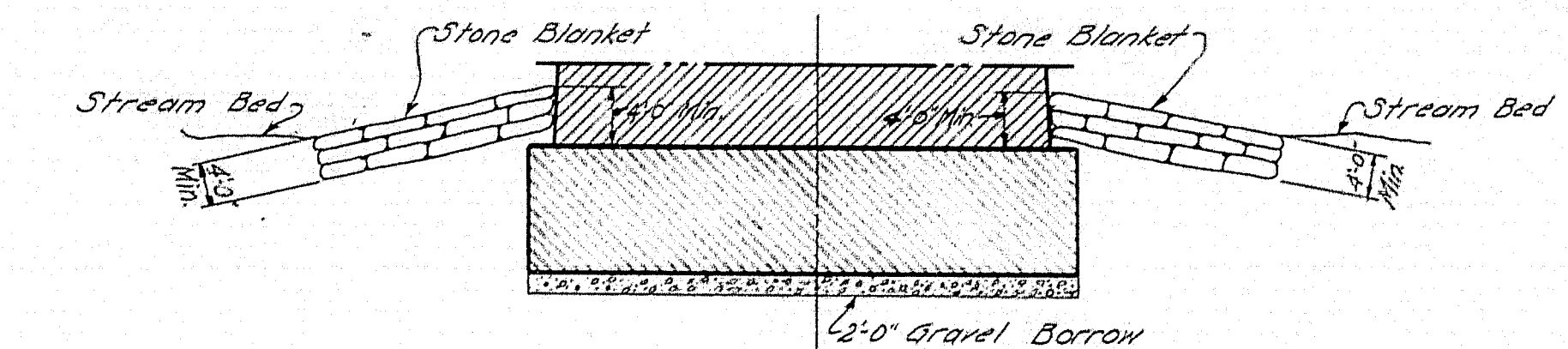
**DIRECT PILE LOAD
PIER ANALYSIS**



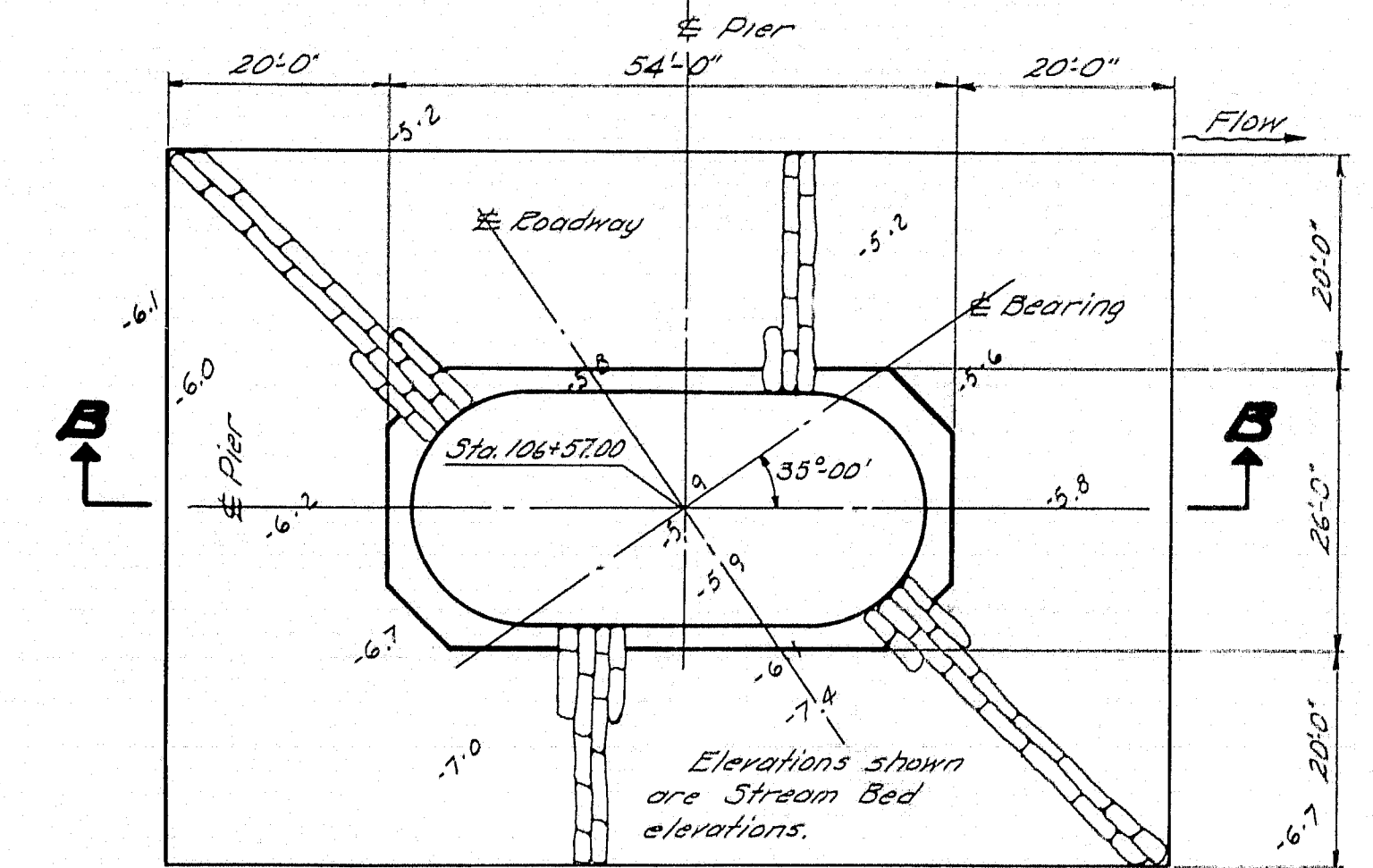
SIDE ELEVATION



SECTION A-A

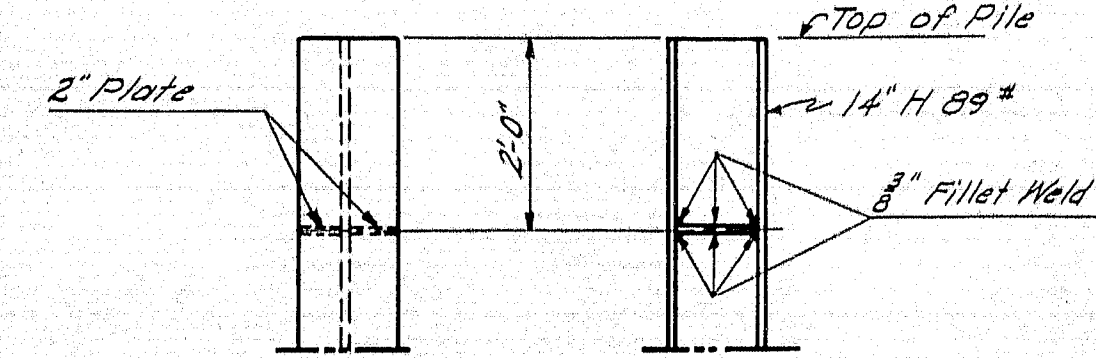


SECTION B-B



PLAN-STONE BLANKET

NOTE: For typical pile splice see Pier #2

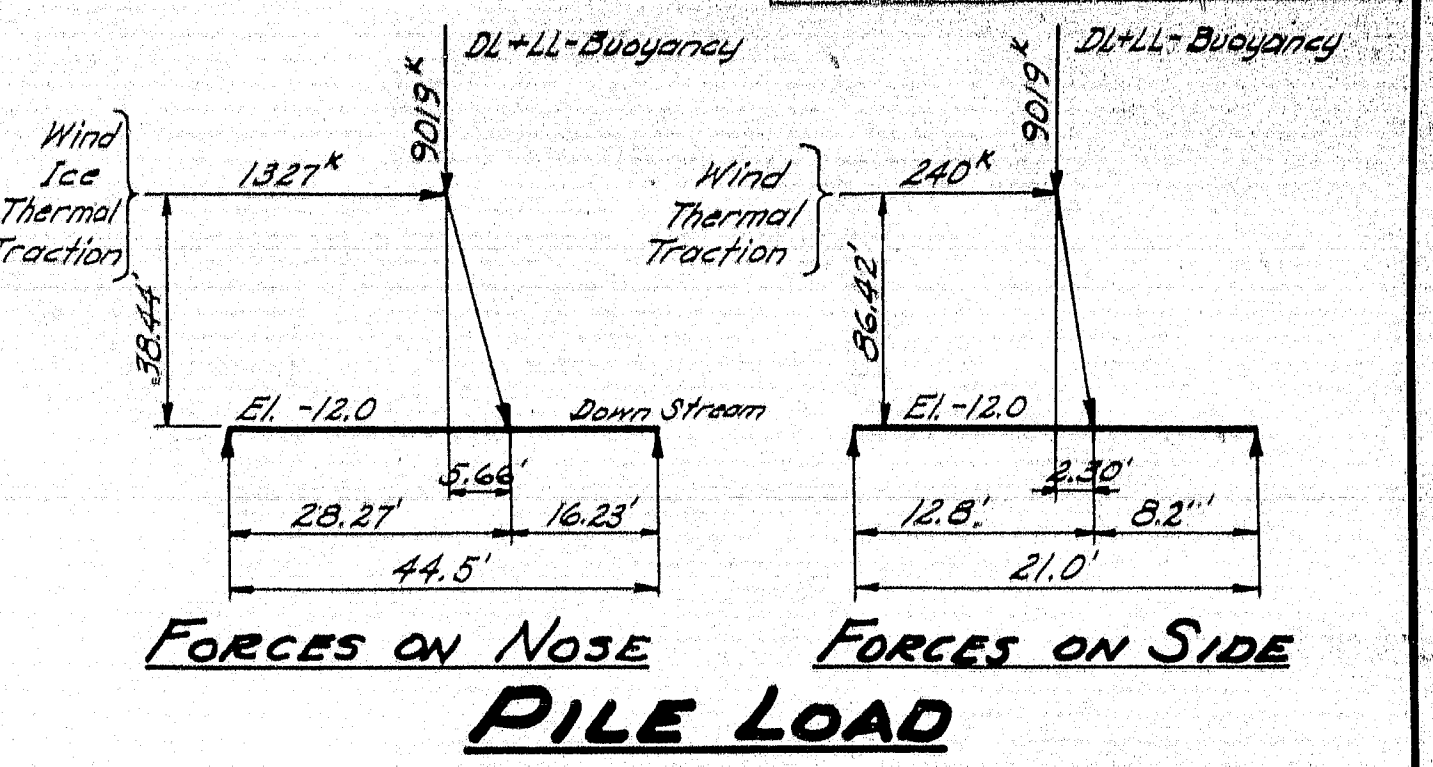
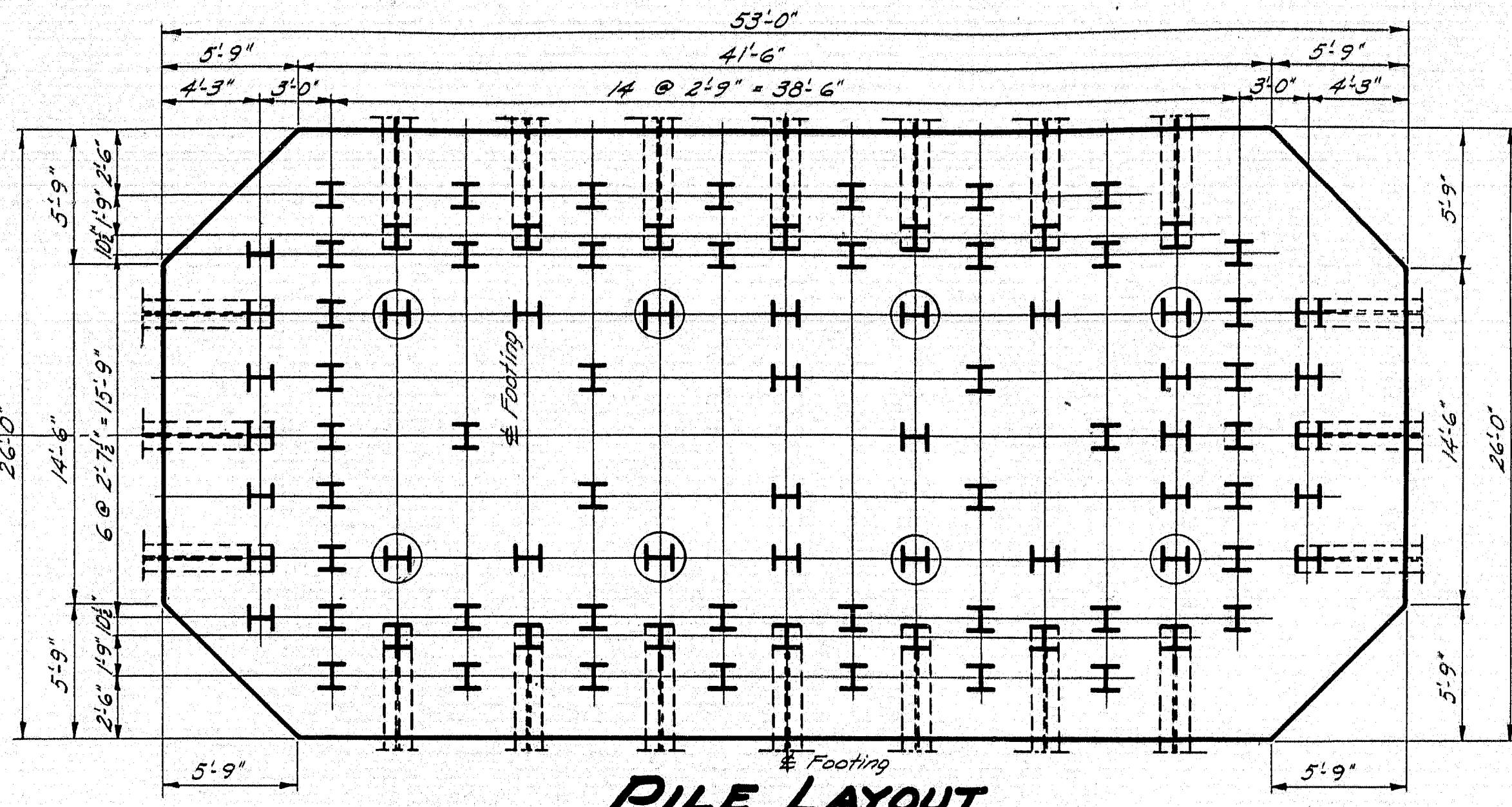
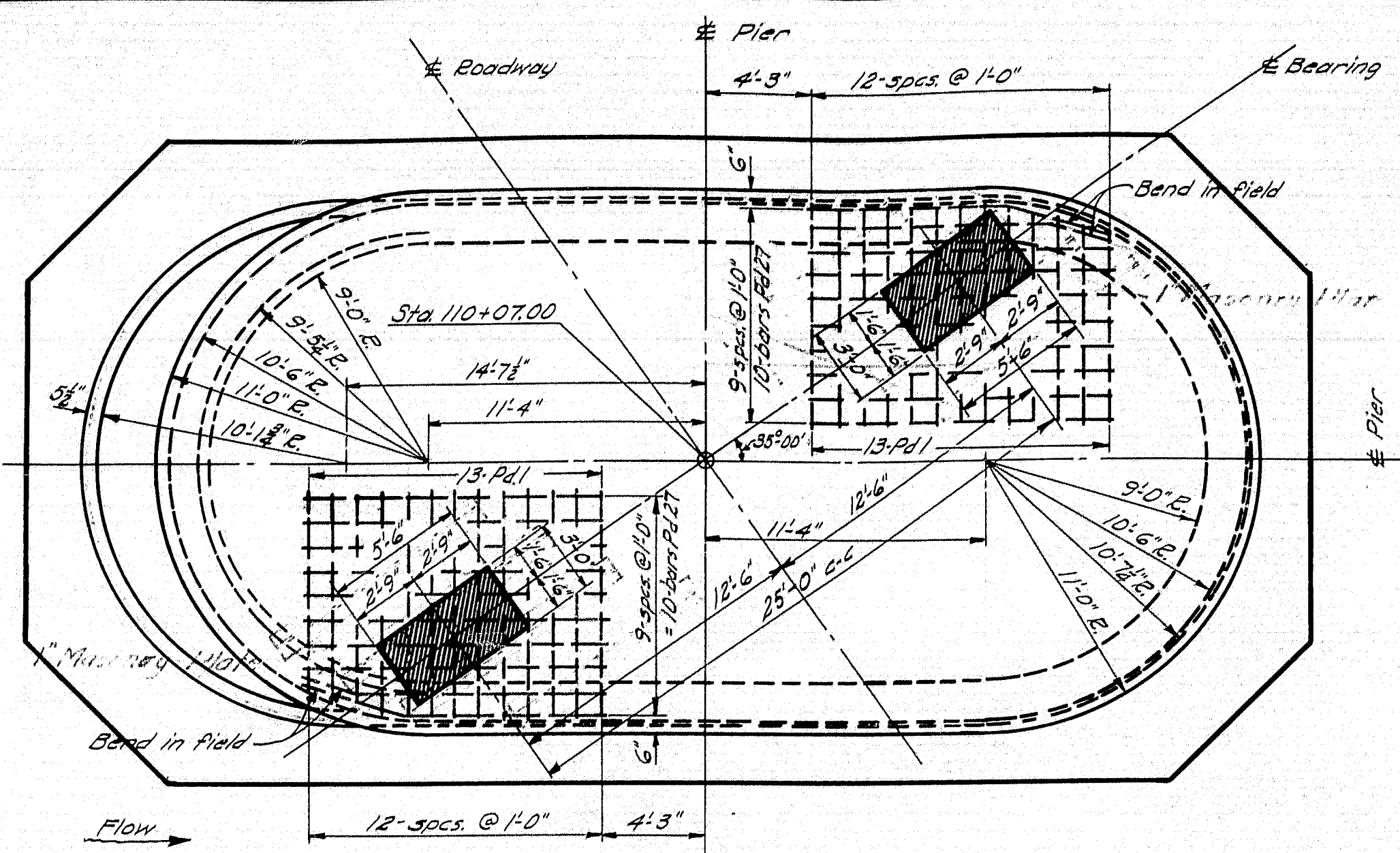


PILE CAPS

For Piles ending in footing, Point of Pile cut square

DESIGN - EVERETT	TRACE - CLARK	BRIDGE - 5196
DETAIL - WHITE	CHECK - CA/3	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE		
OVER THE		
KENNEBEC RIVER		
IN THE CITY OF		
AUGUSTA		
KENNEBEC COUNTY		
PIER NO. 3		
SHEET 15 OF 45 AUGUSTA, MAINE FEB. 1948		

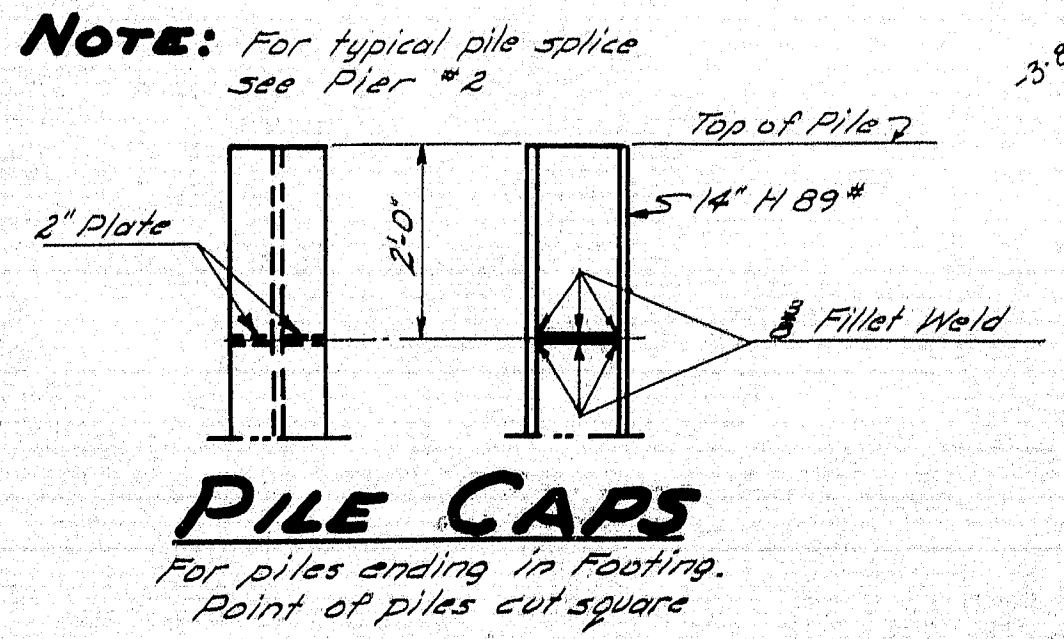
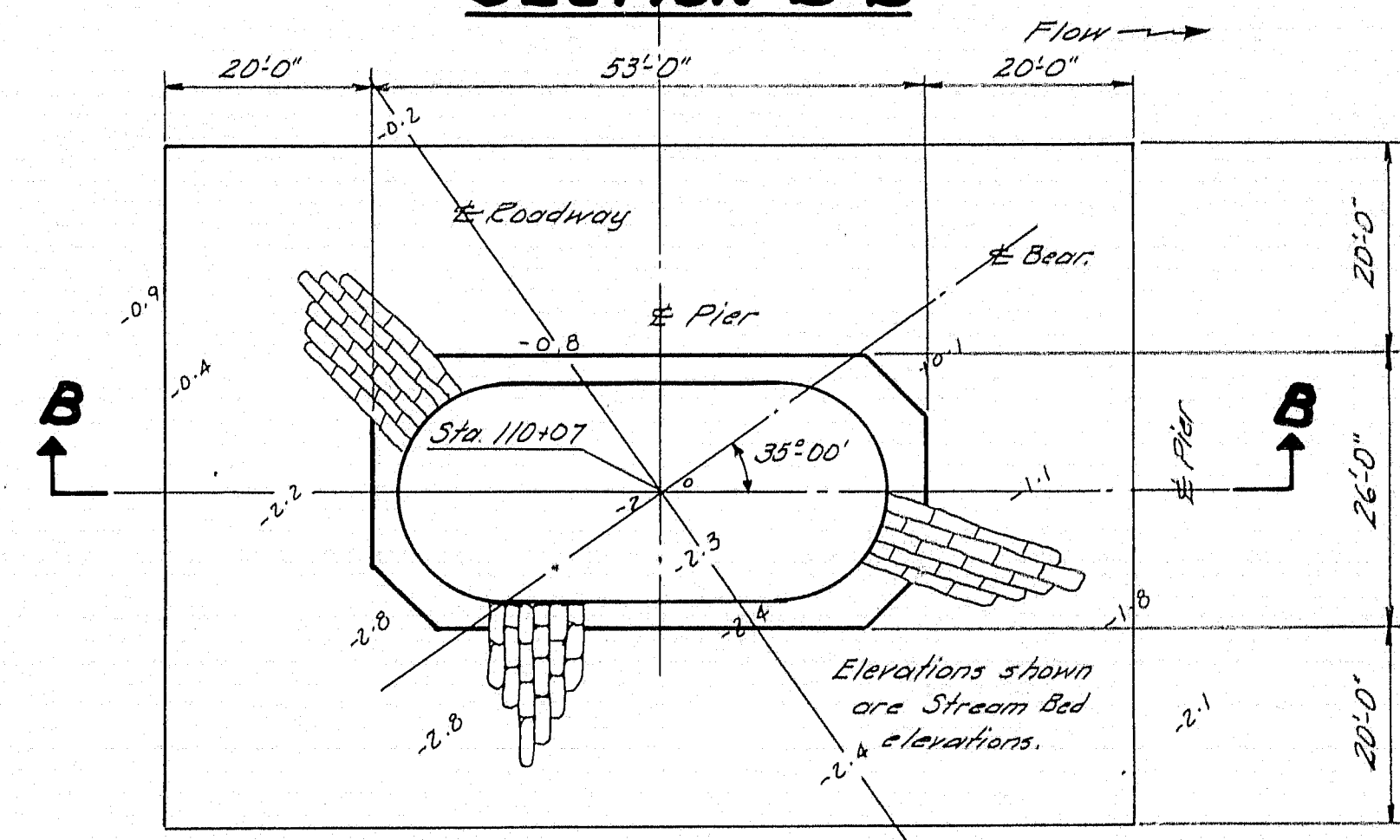
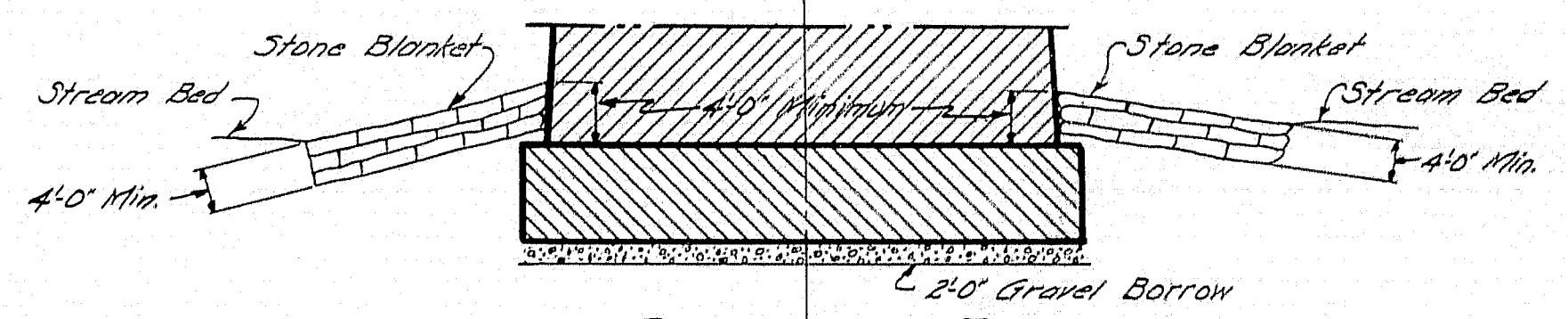
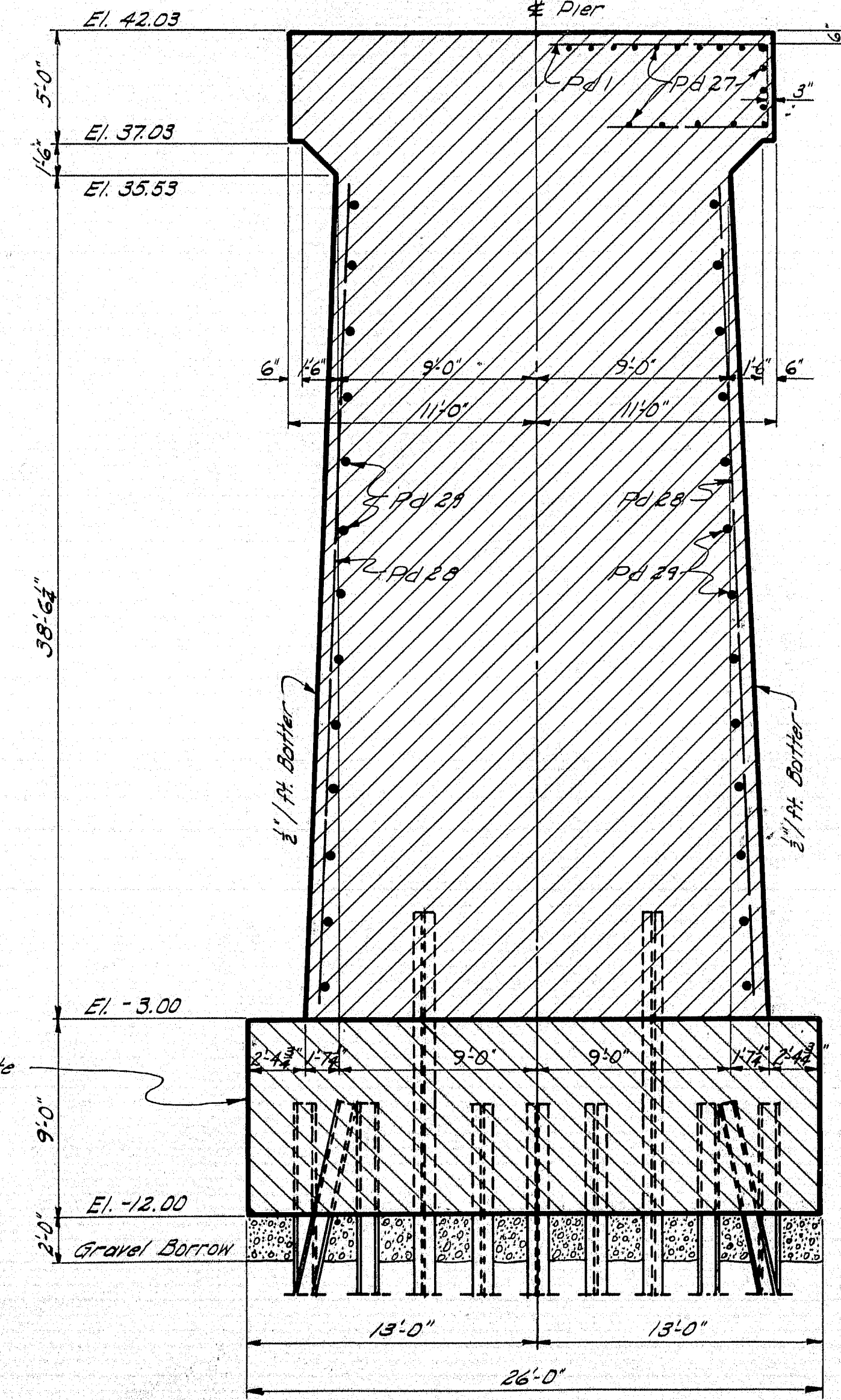
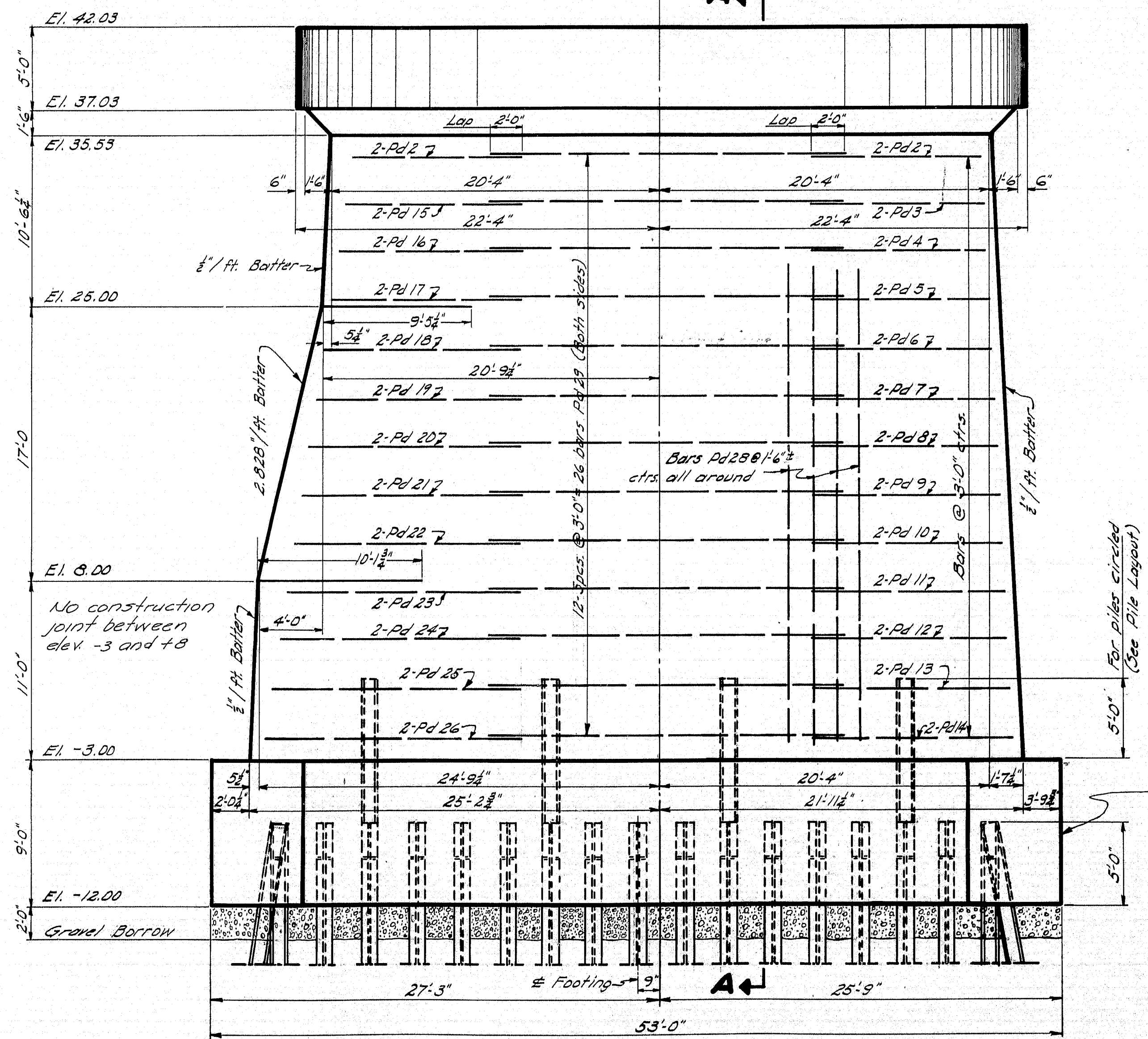
NOTE: Dress shaded bearing areas plus 1" all around to exact elev. Space reinforcing steel to clear anchor bolts.



PILE SUMMARY

Direct Load	Combination
57.0 Tons	49.0 Tons Direct
	30.7 Tons on nose
	18.4 " on side
	98.1 Tons Total
Allowable Pile Load 78.6 Tons	98.3 Tons

DIRECT PILE LOAD
PIER ANALYSIS



DESIGN - EVERETT
DETAIL - WHITE

TRACE - CLARK
CHECK - CDS

BRIDGE - 5196

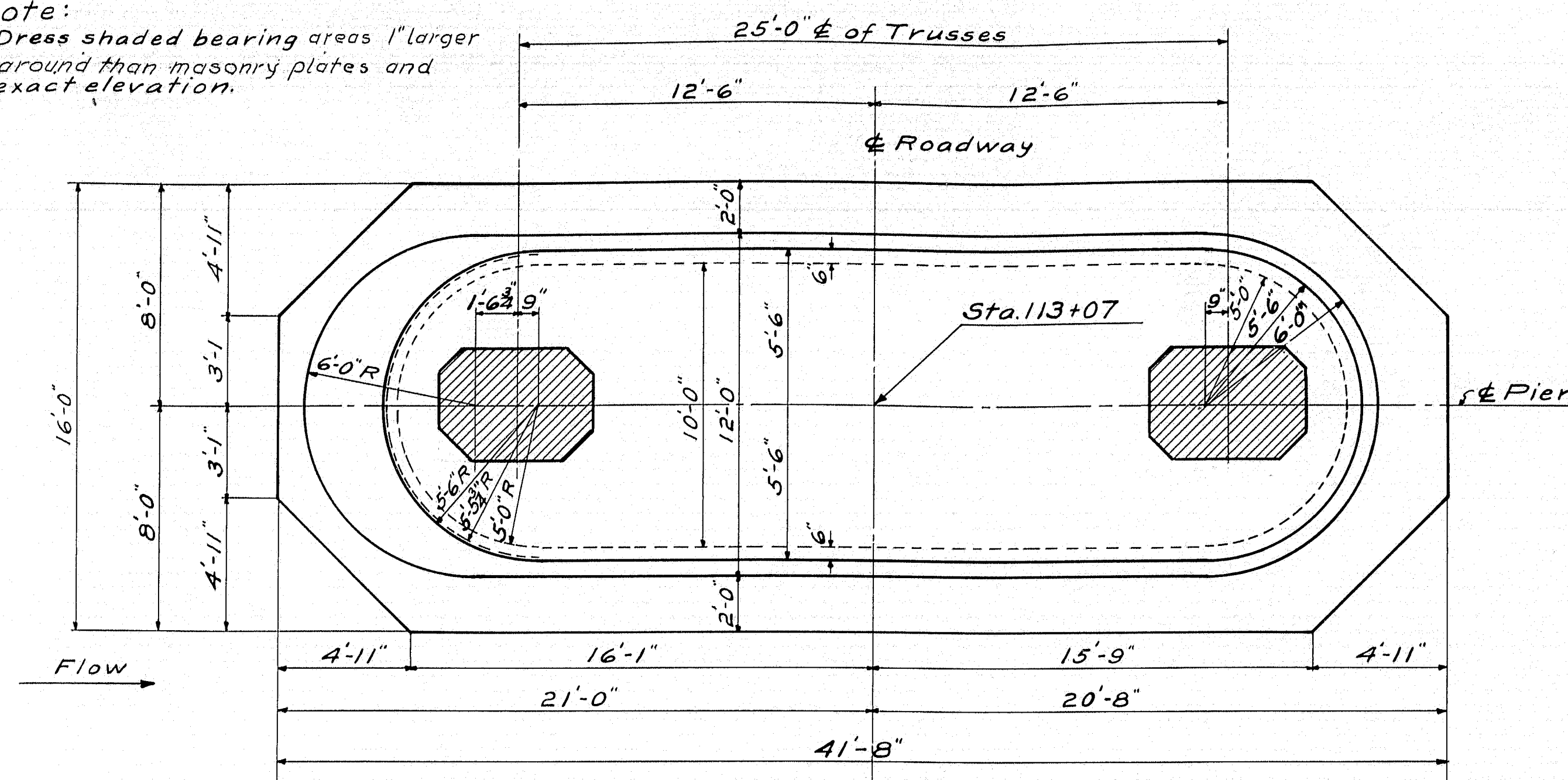
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY

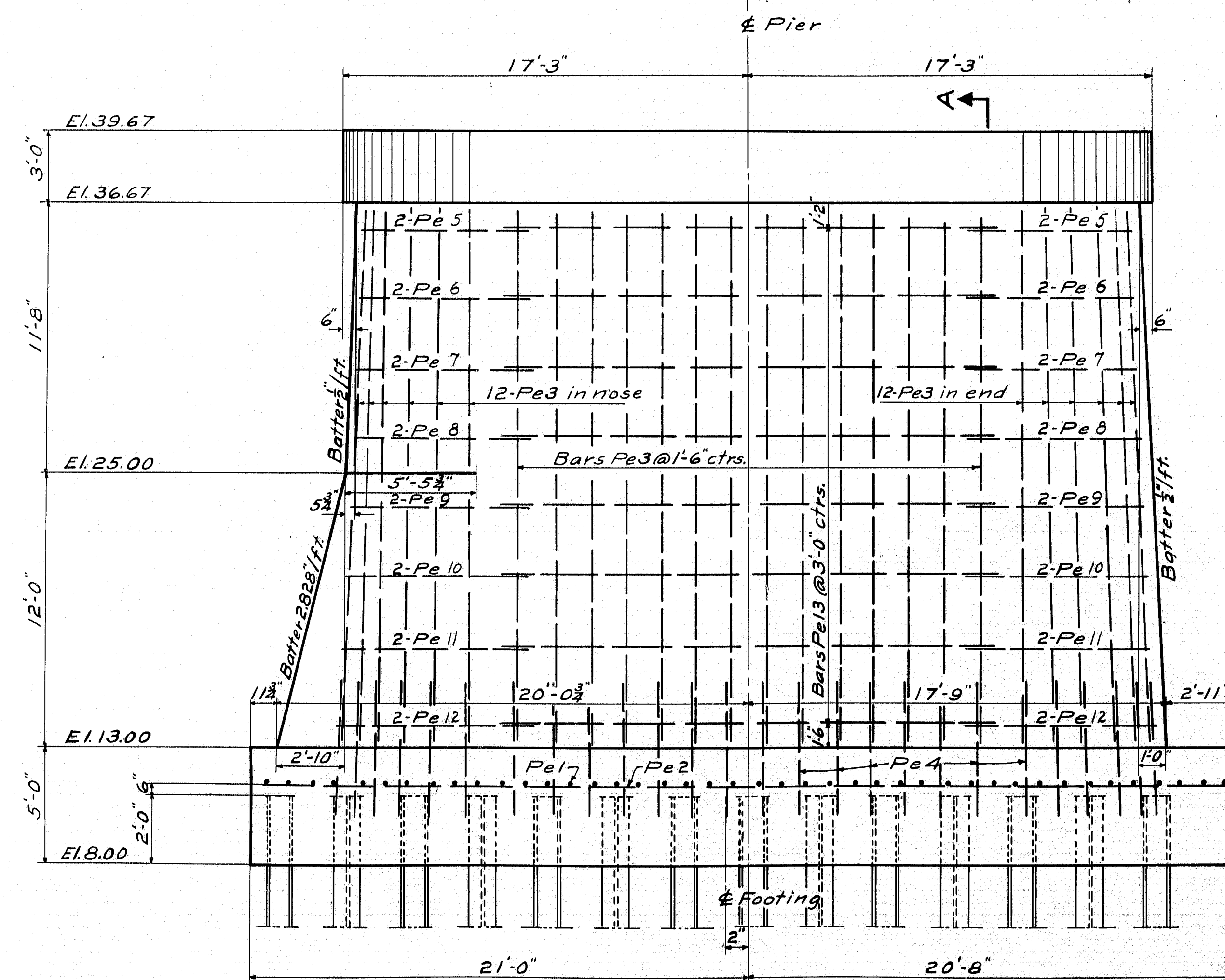
PIER NO. 4

SHEET 16 OF 45 AUGUSTA, MAINE FEB. 1945

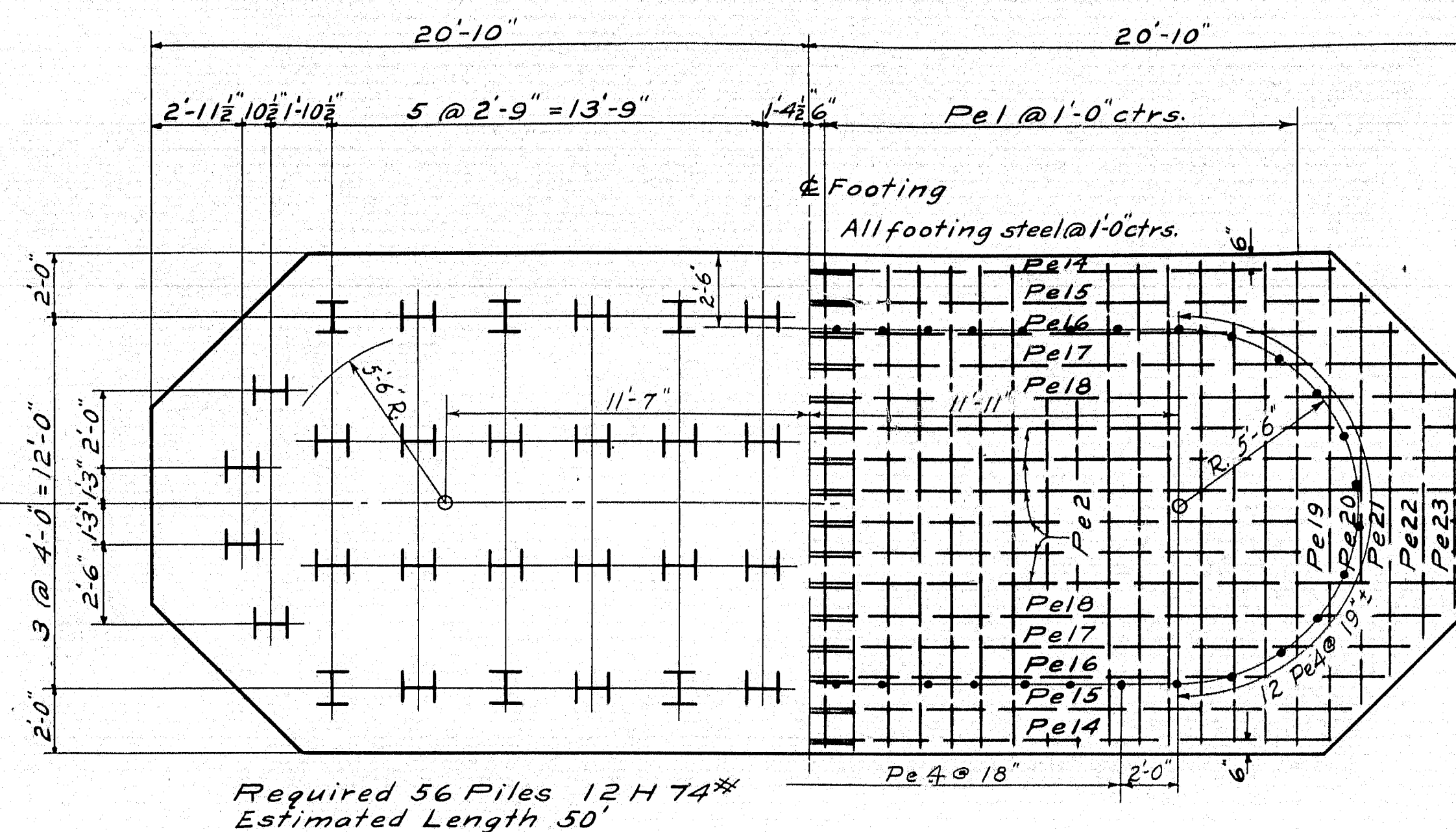
Note:
Dress shaded bearing areas 1" larger
all around than masonry plates and
to exact elevation.



PLAN

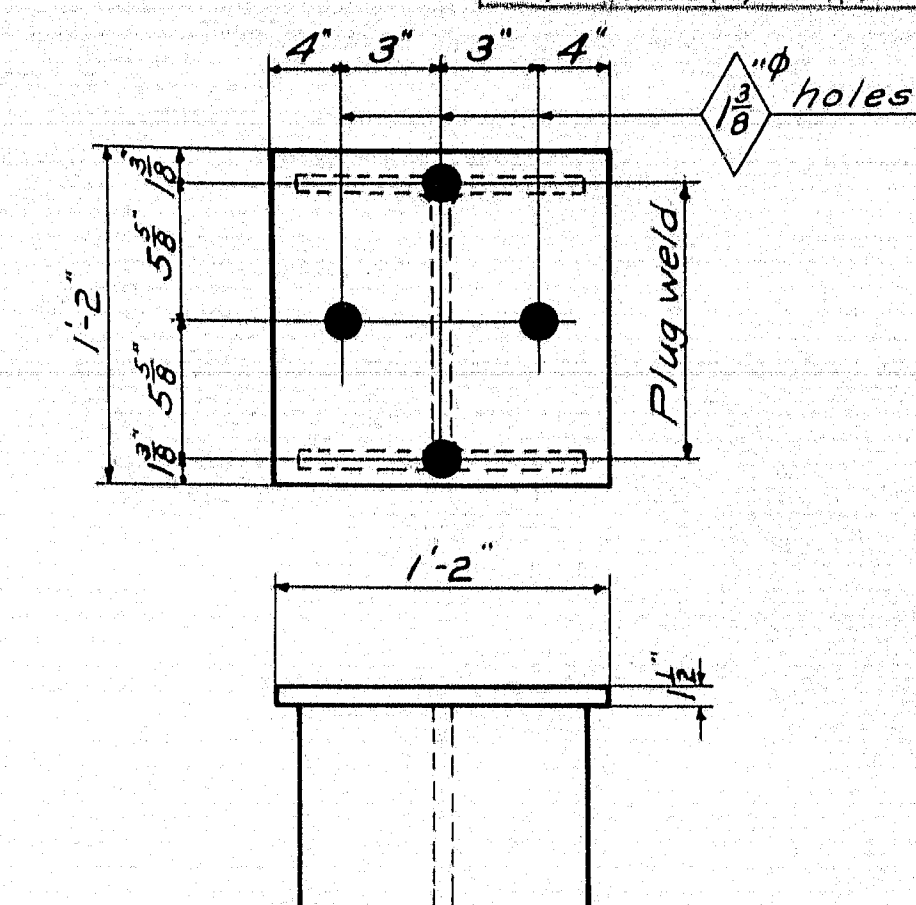


SIDE ELEVATION

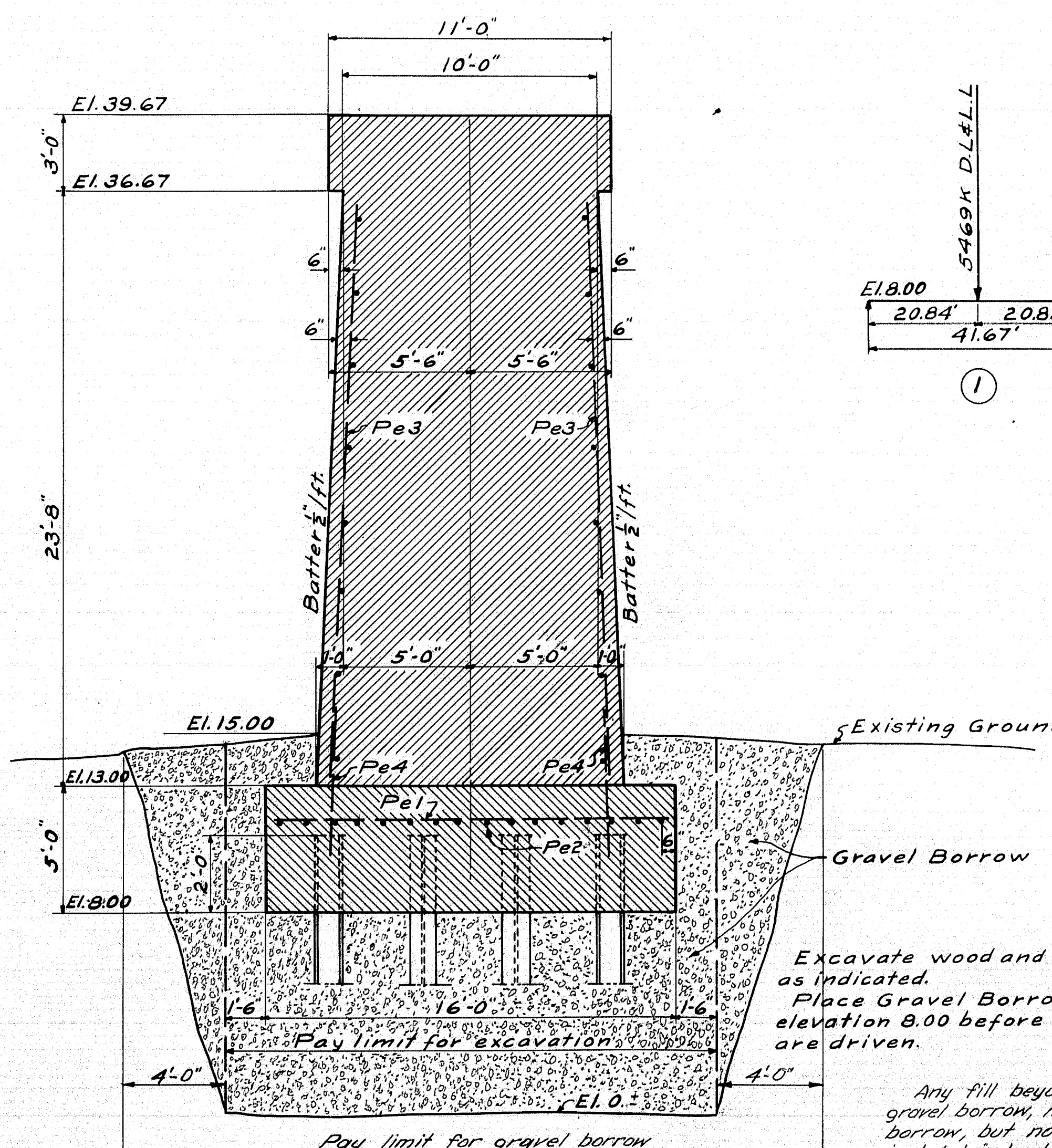


HALF PLAN
PILE LAYOUT

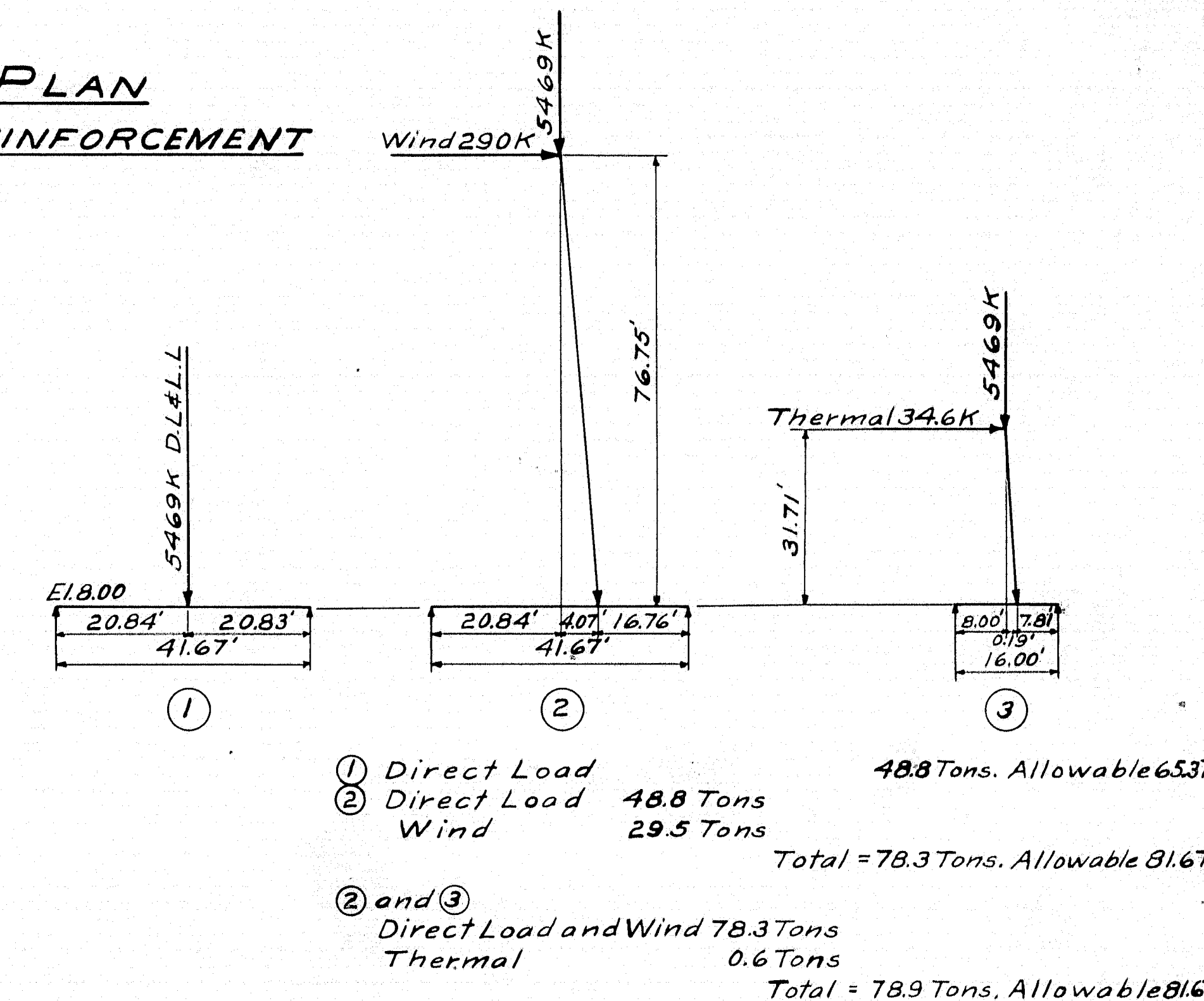
HALF PLAN
FOOTING REINFORCEMENT



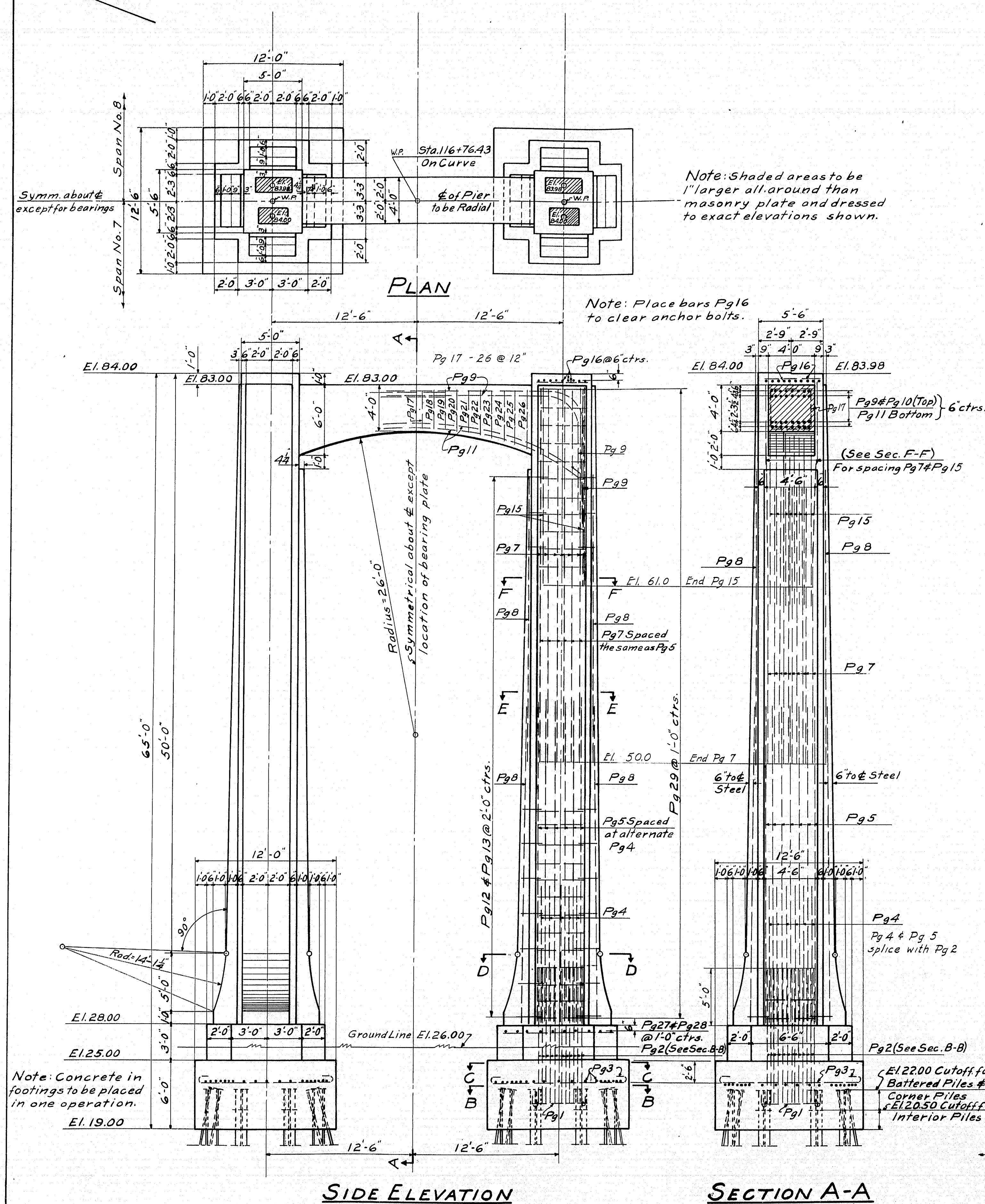
PILE CAP
Required 56 Piles 12 H 74#
Pile points cut square
See Pier #2 for Typical Pile Splice



SECTION A-A

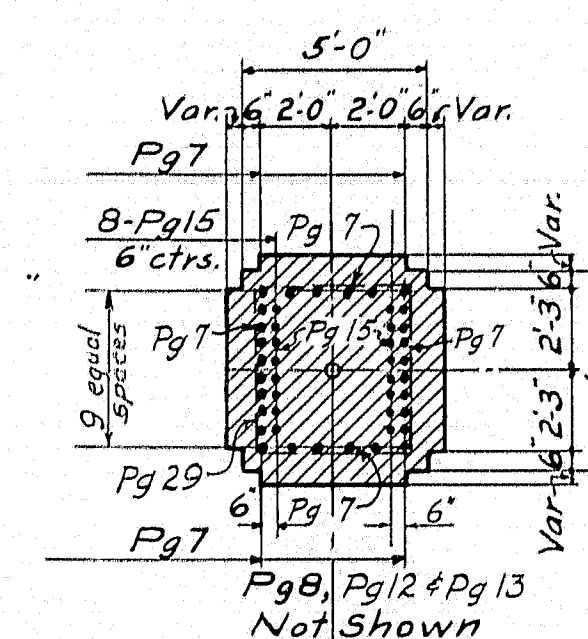


DESIGN - STANGEL	TRACE - WHITE	BRIDGE - 5196
DETAIL -	CHECK -	
STATE HIGHWAY COMMISSION		
BRIDGE DIVISION		
AUGUSTA BRIDGE		
OVER THE		
KENNEBEC RIVER		
IN THE CITY OF		
AUGUSTA		
KENNEBEC COUNTY		
PIER NO. 5		
SHEET 17 OF 45	AUGUSTA, MAINE	FEB. 1948

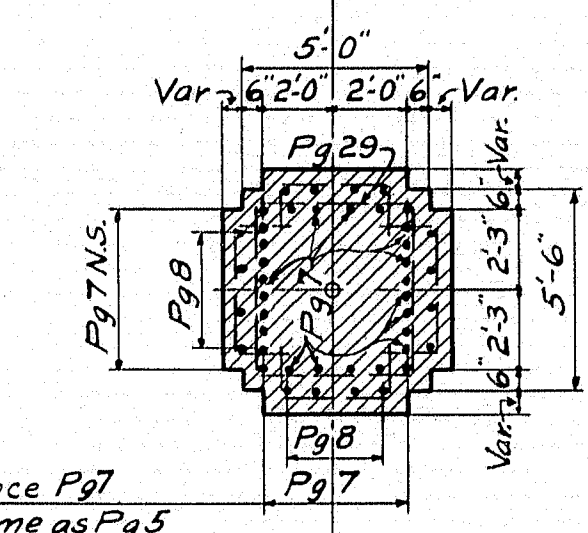


SIDE ELEVATION

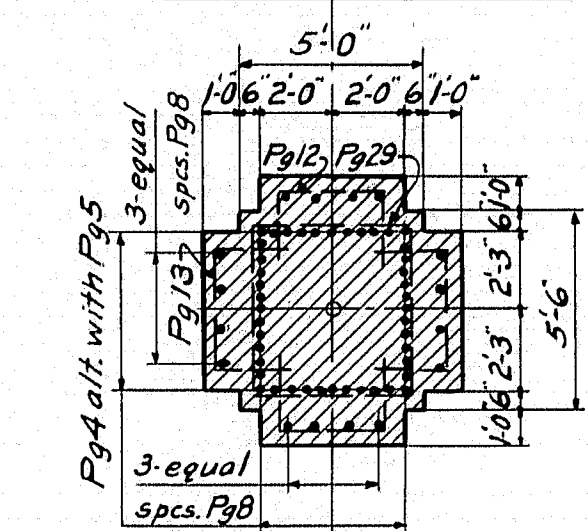
SECTION A-A



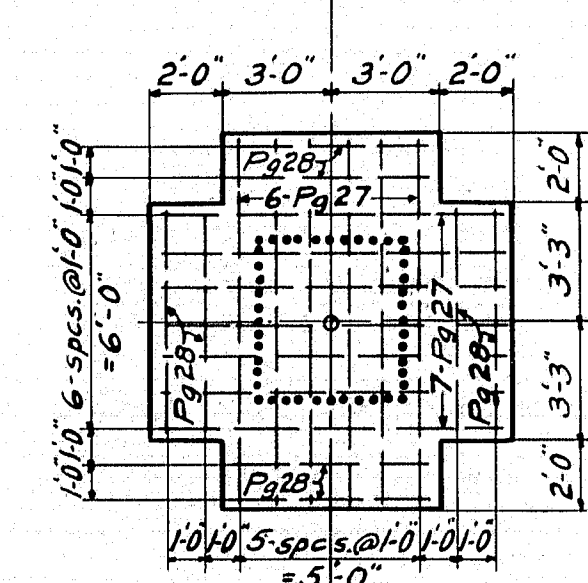
SECTION F-F



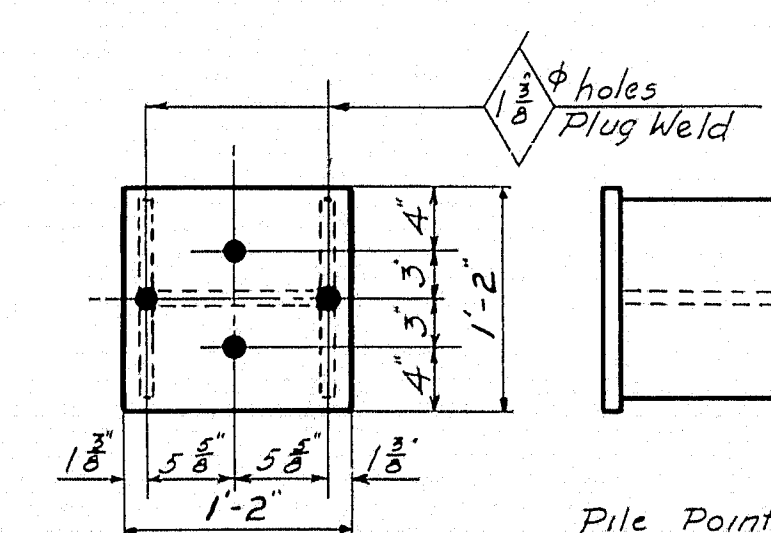
SECTION E-E



SECTION D-D

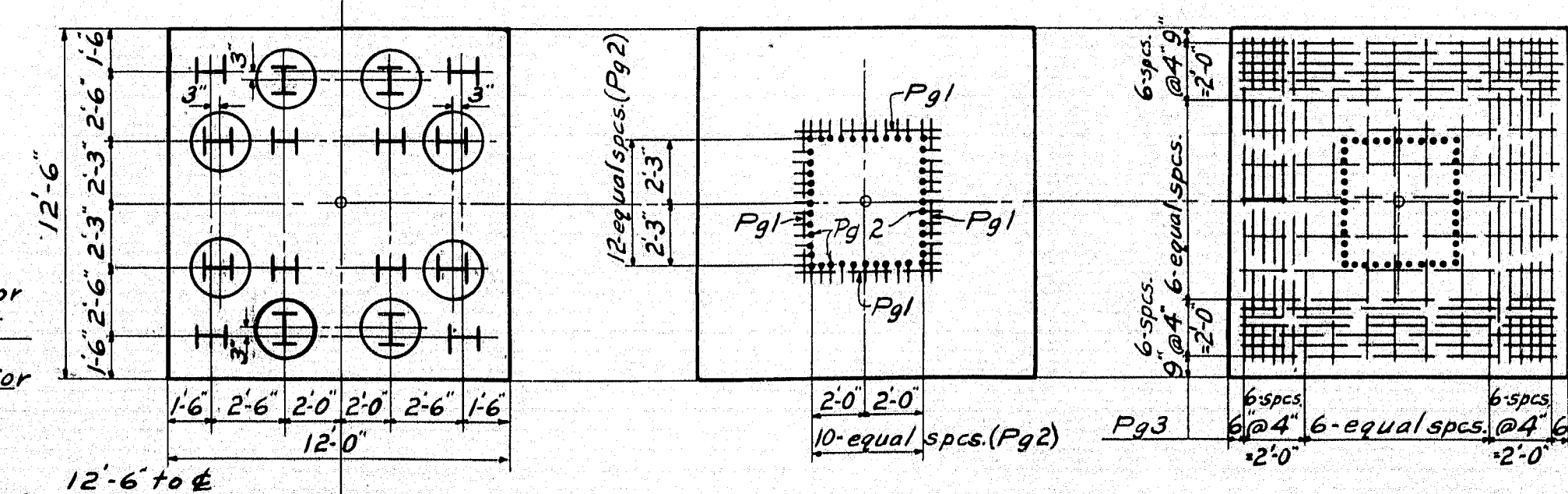


PLAN-COLUMN BASE



PILE CAP

32 Req'd. $14'' \times 1\frac{1}{2}'' \times 1'-2$

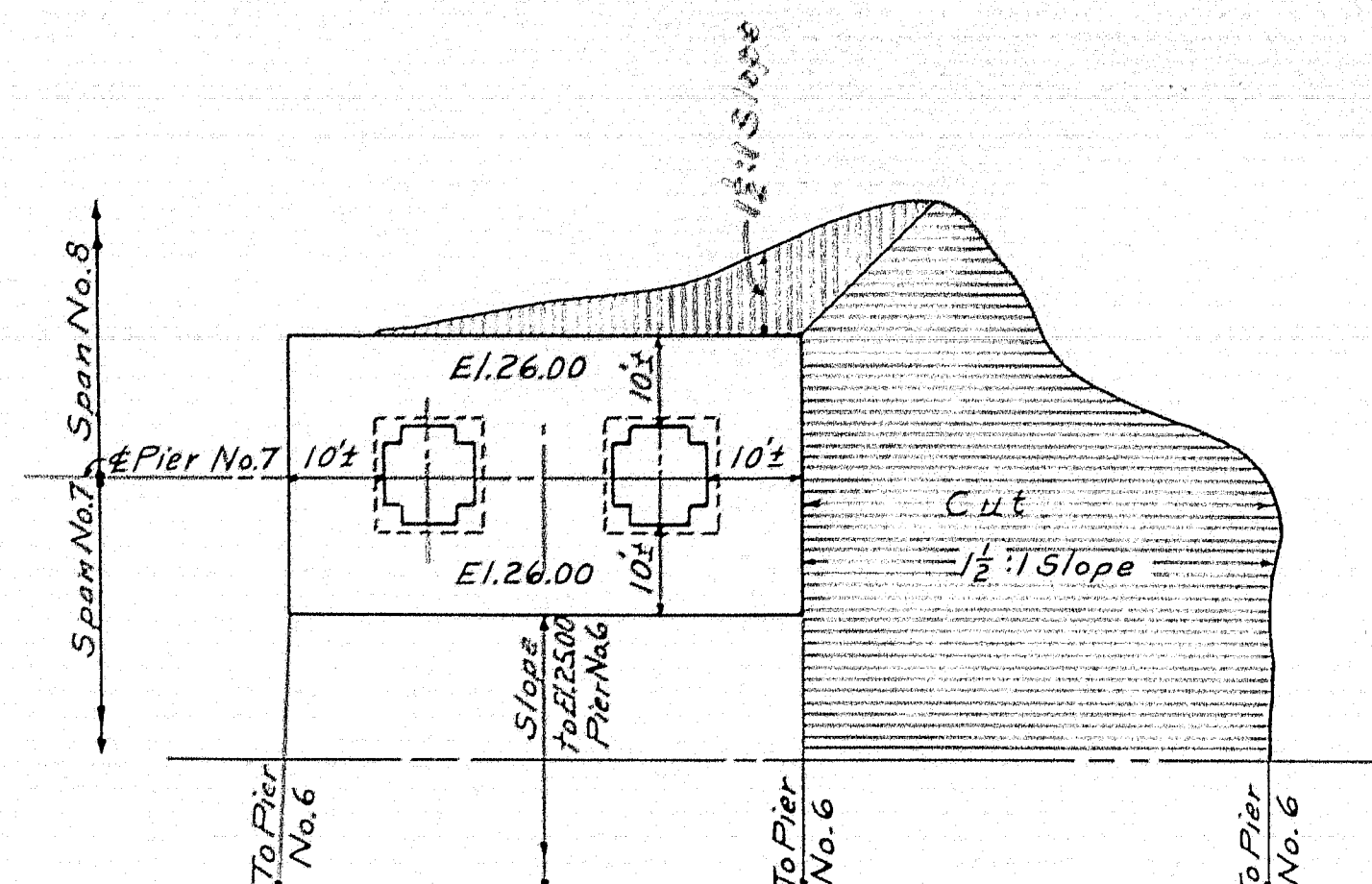


PILE PLAN

Piles shown in circles to be battered 2" per foot. Piles 12" H 74* 32-Required. Estimated length 45'

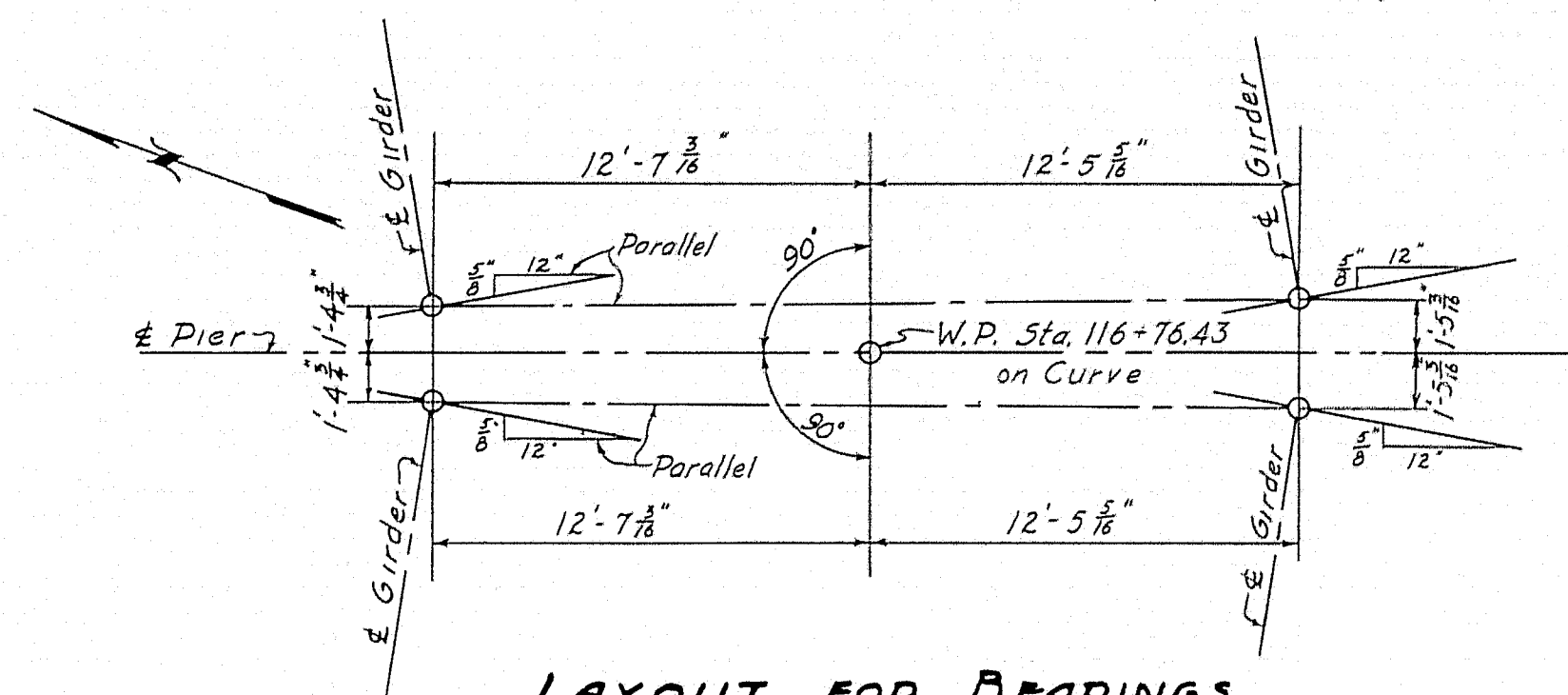
SECTION B-B

SECTION C-C

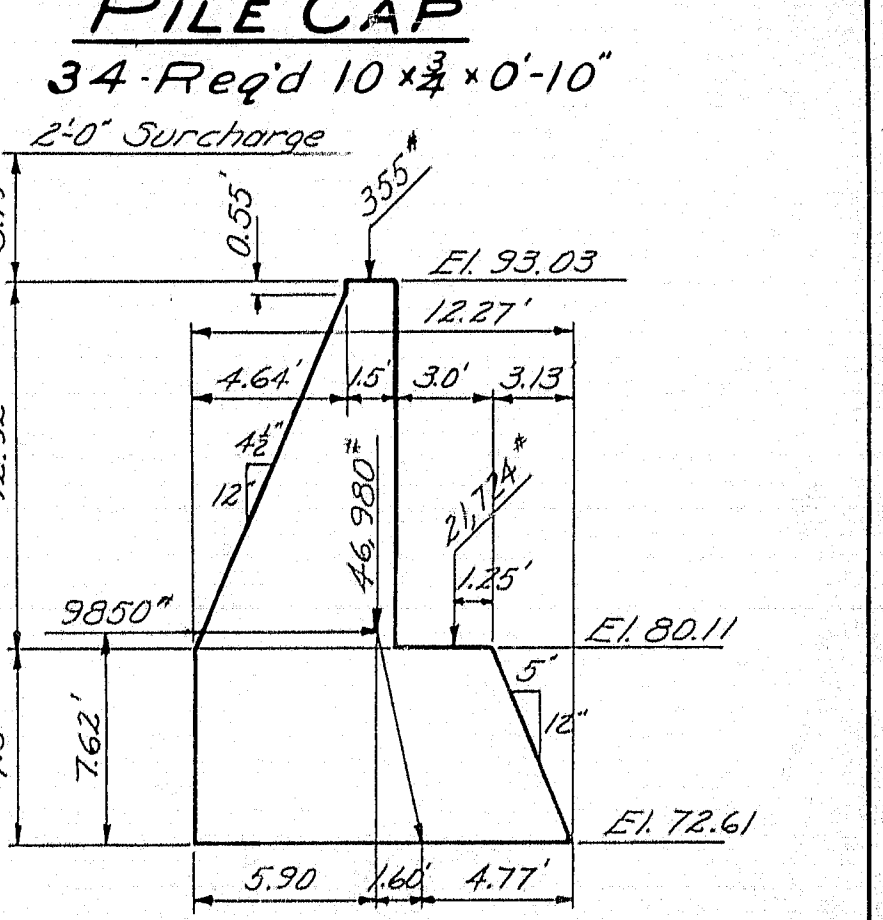
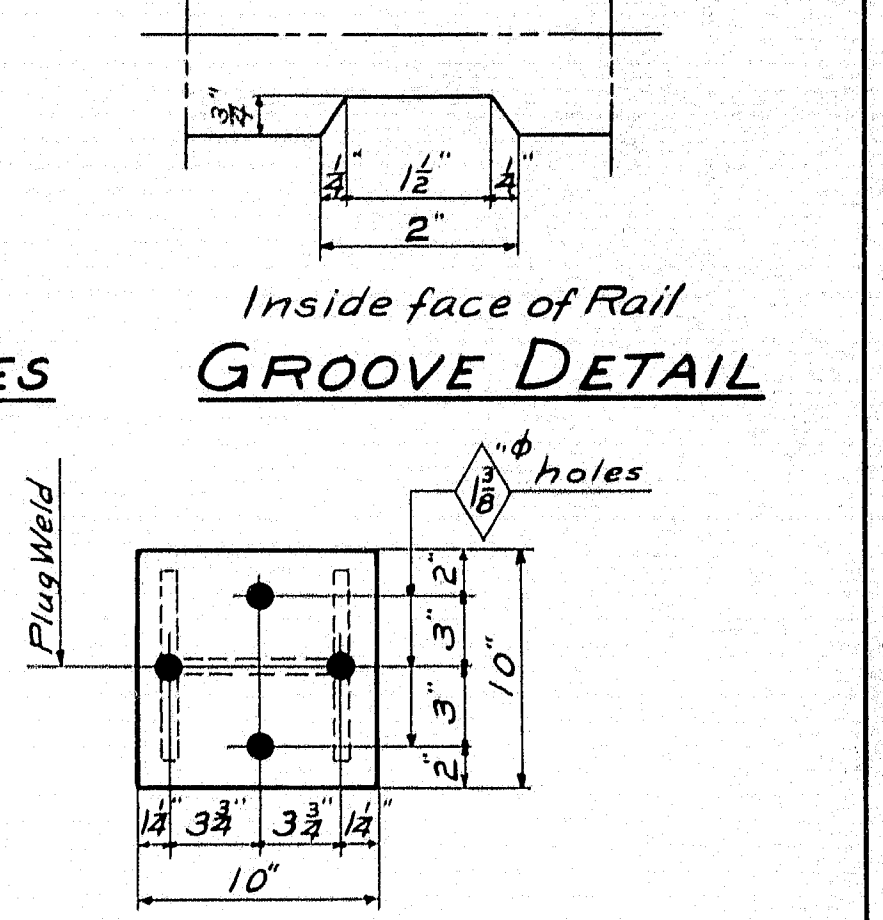
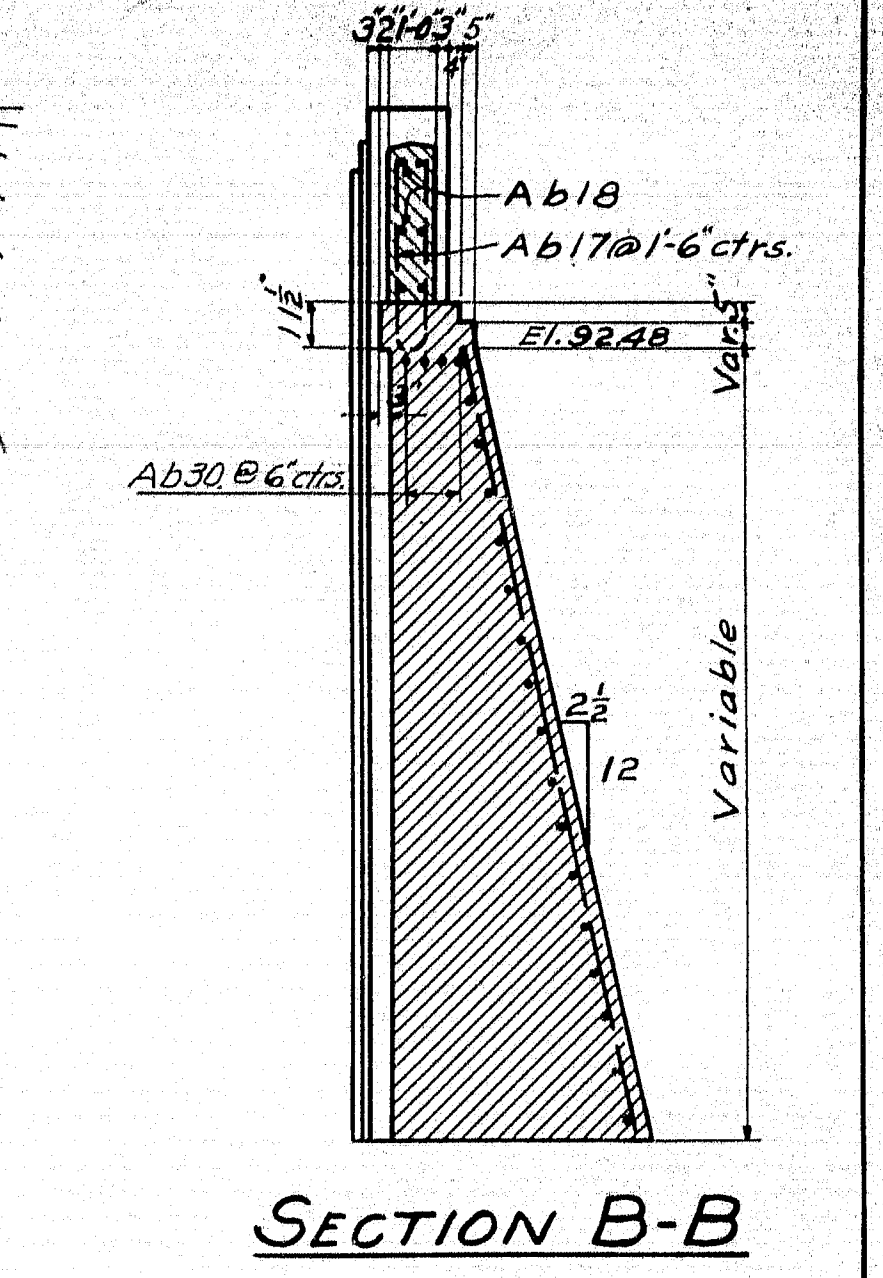
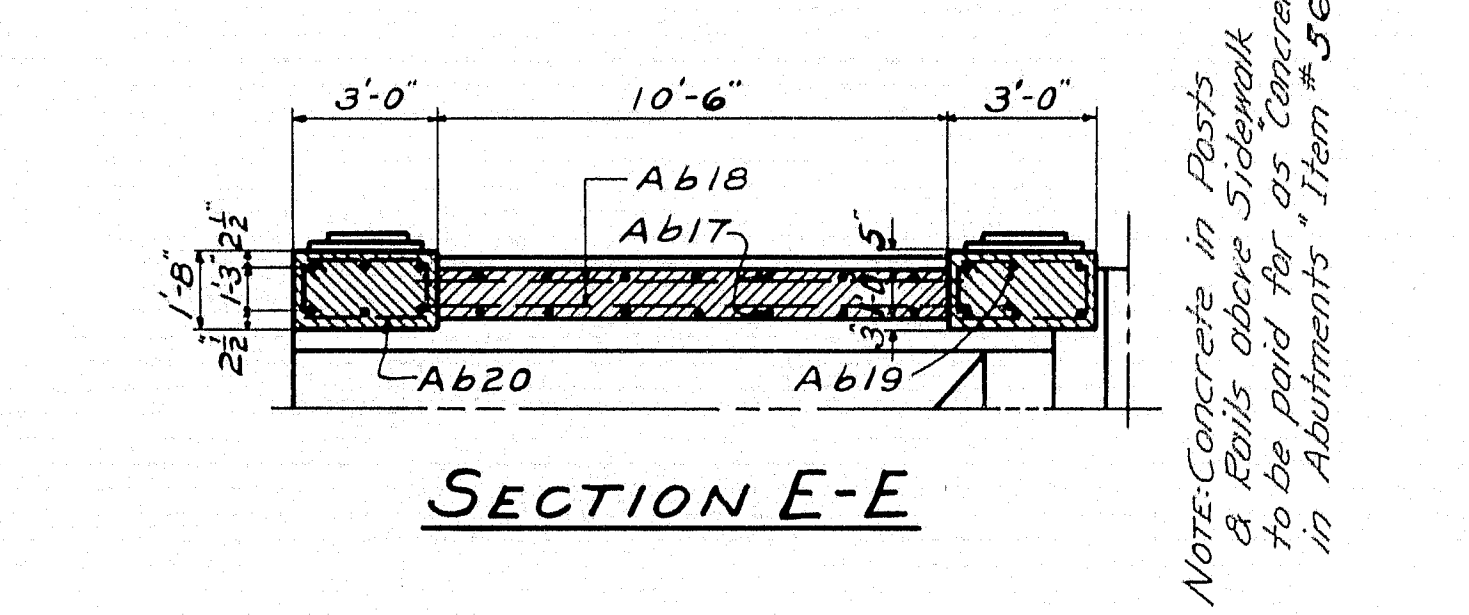
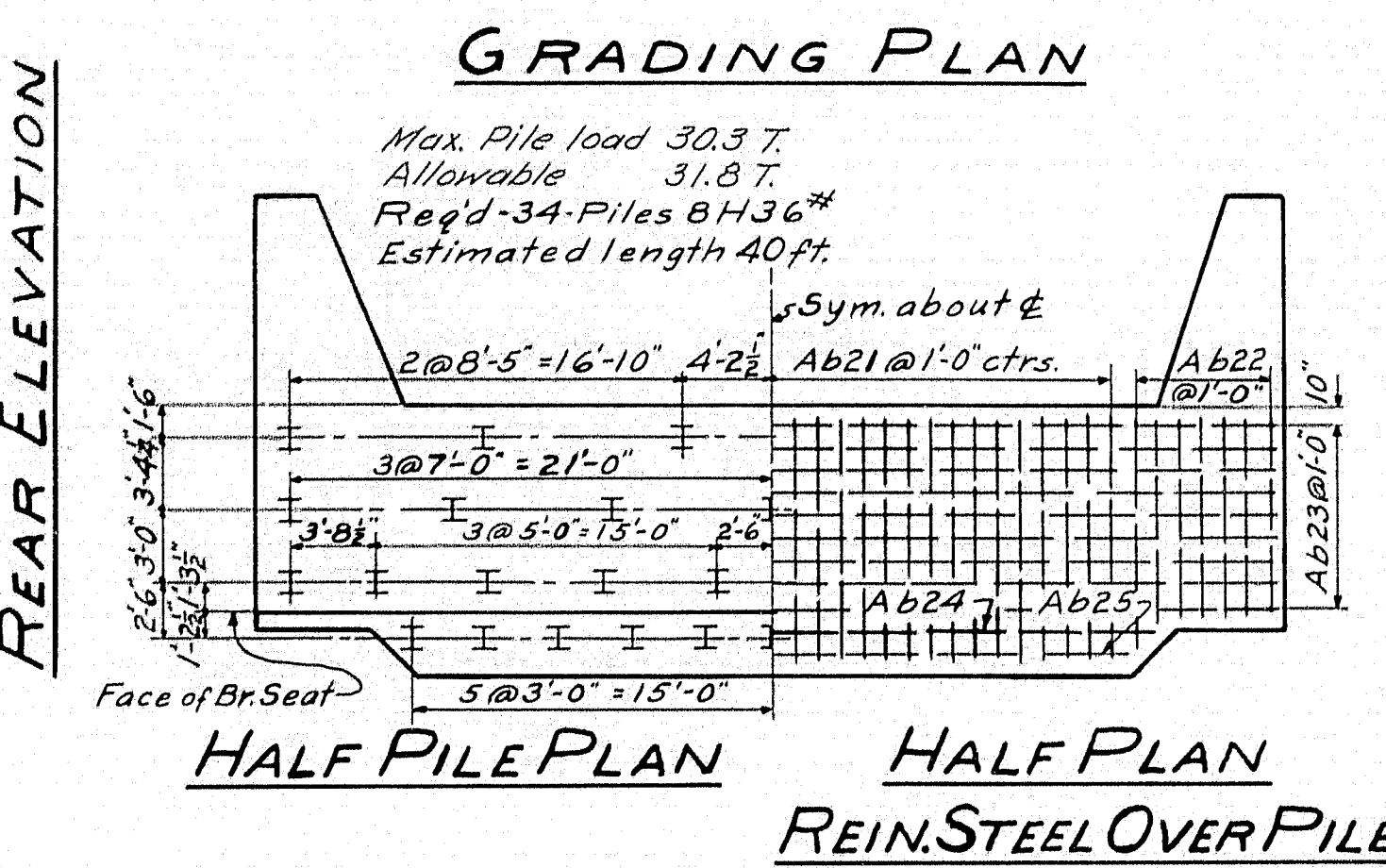
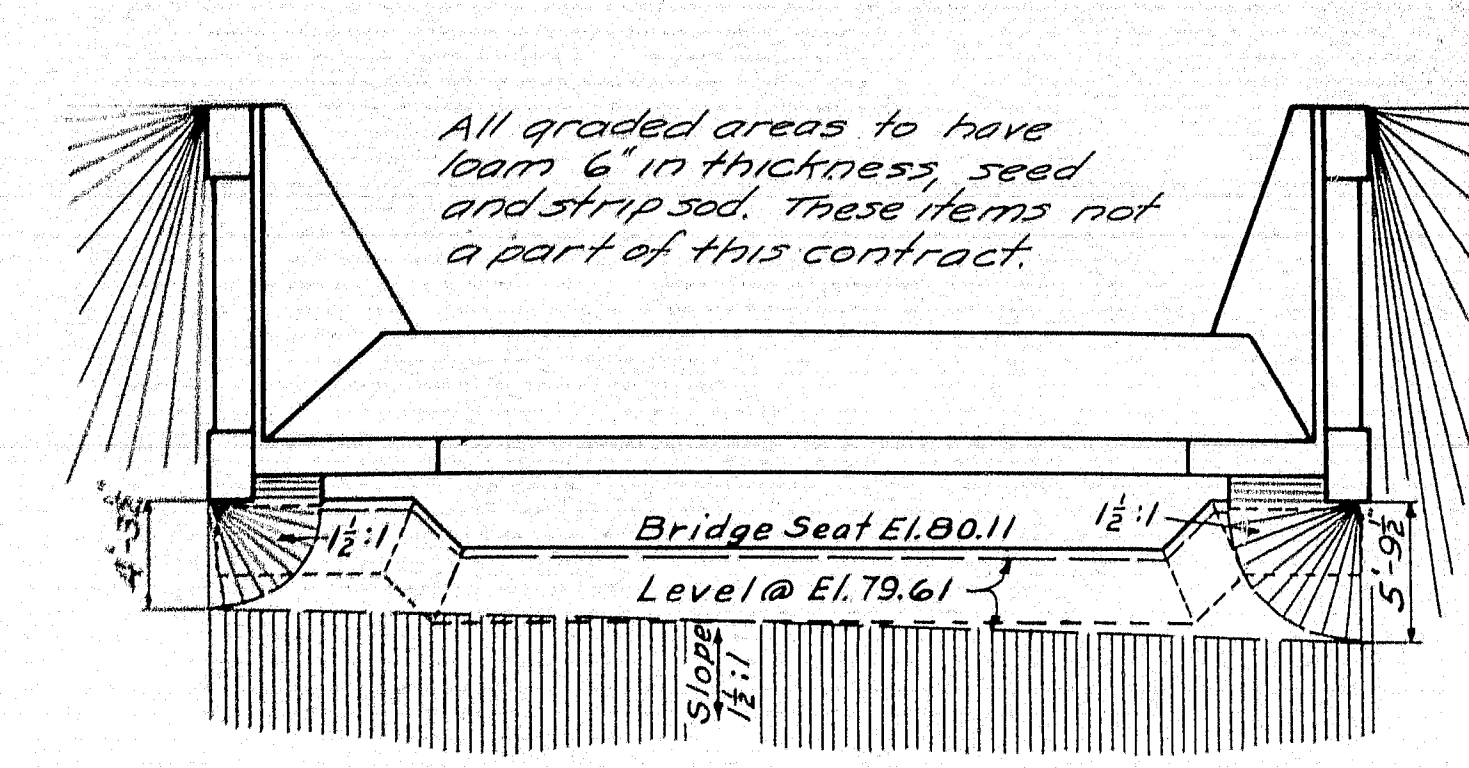
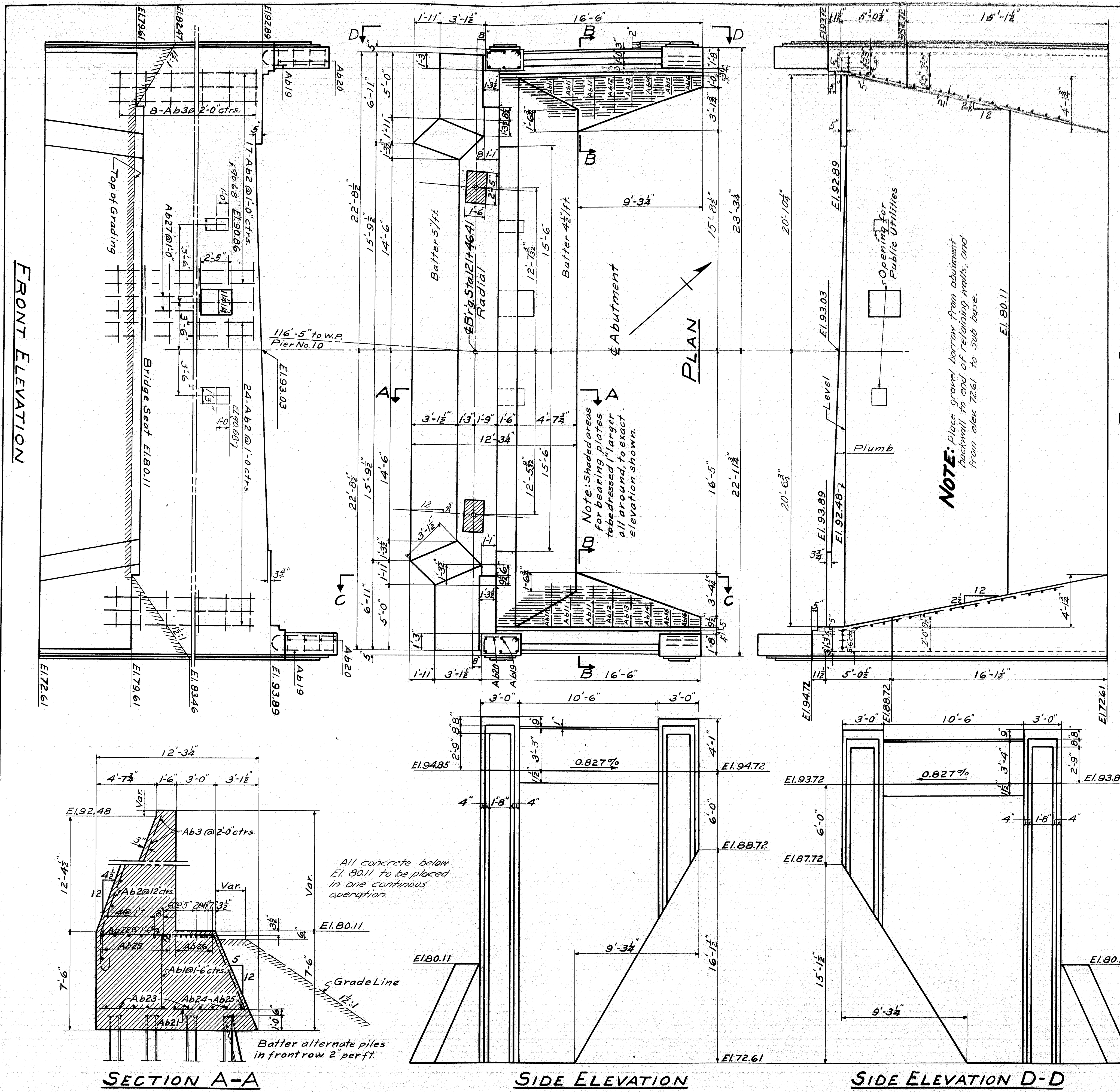


GRADING PLAN

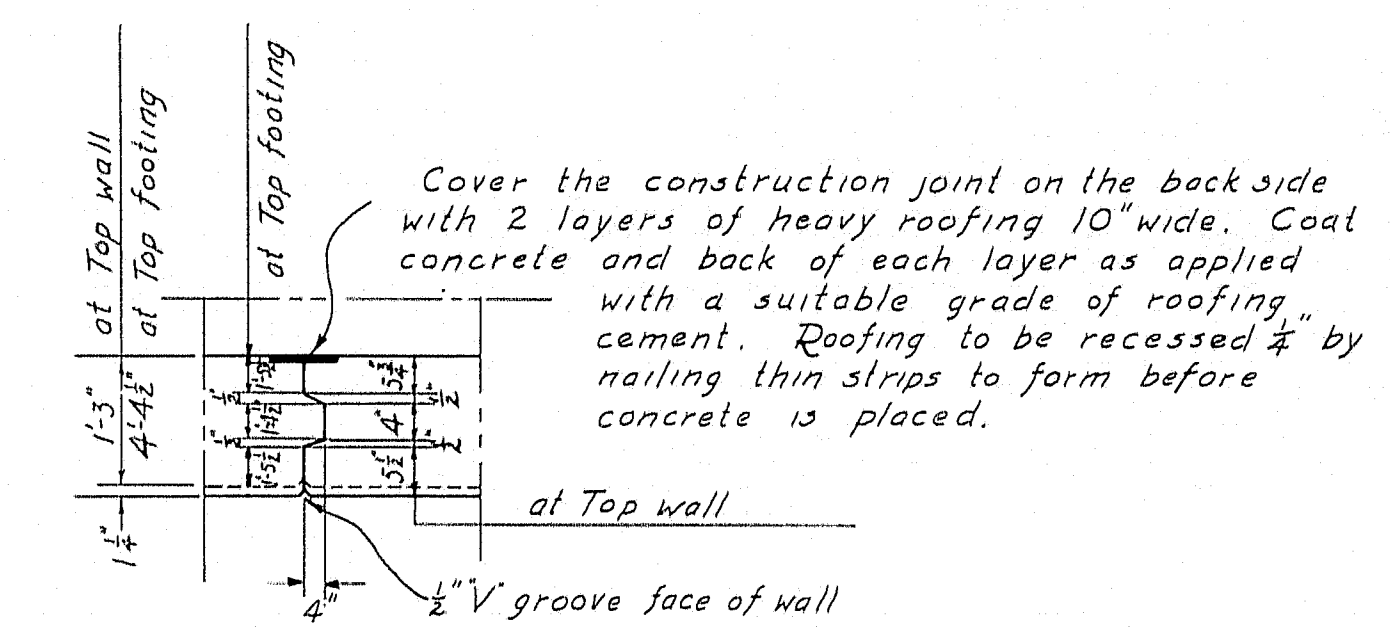
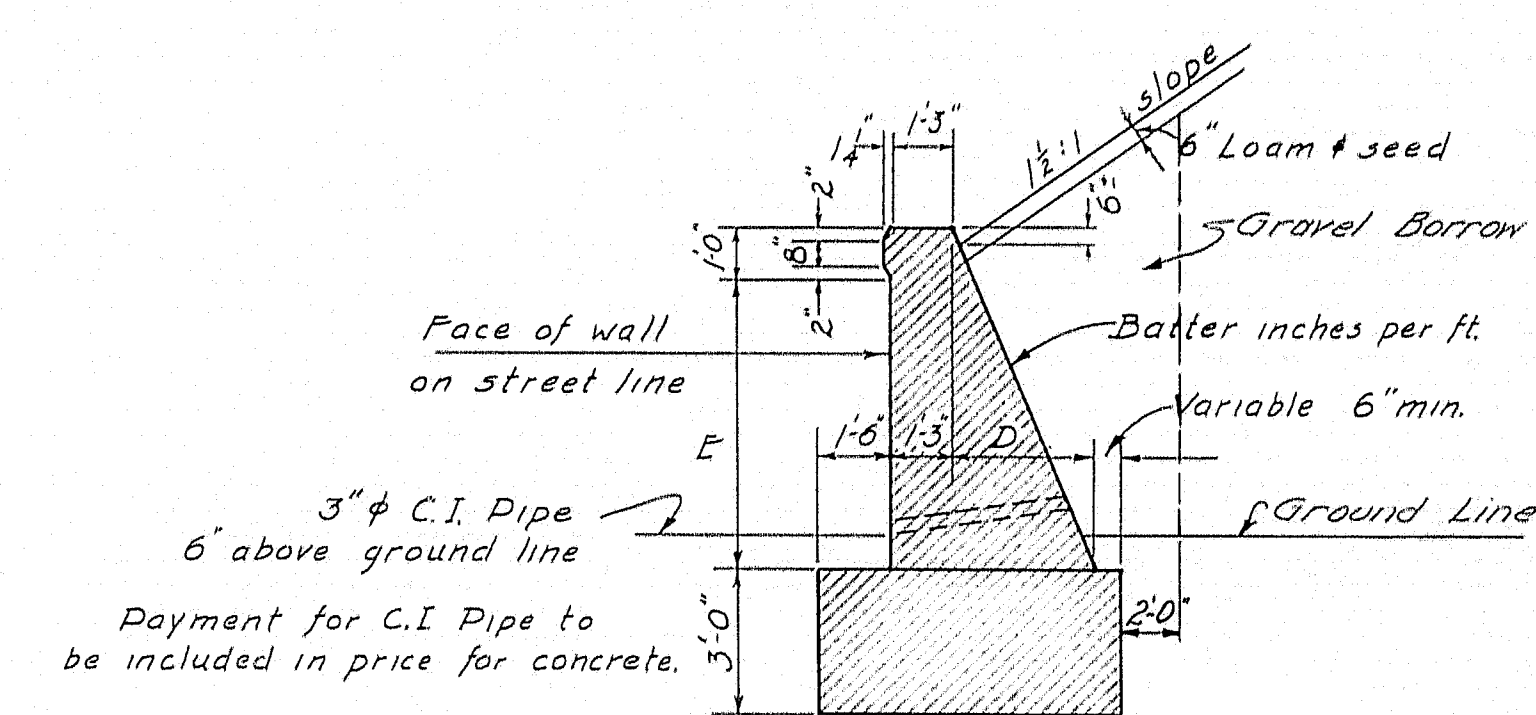
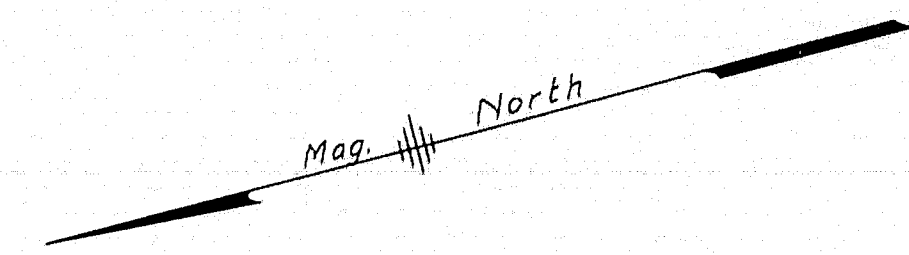
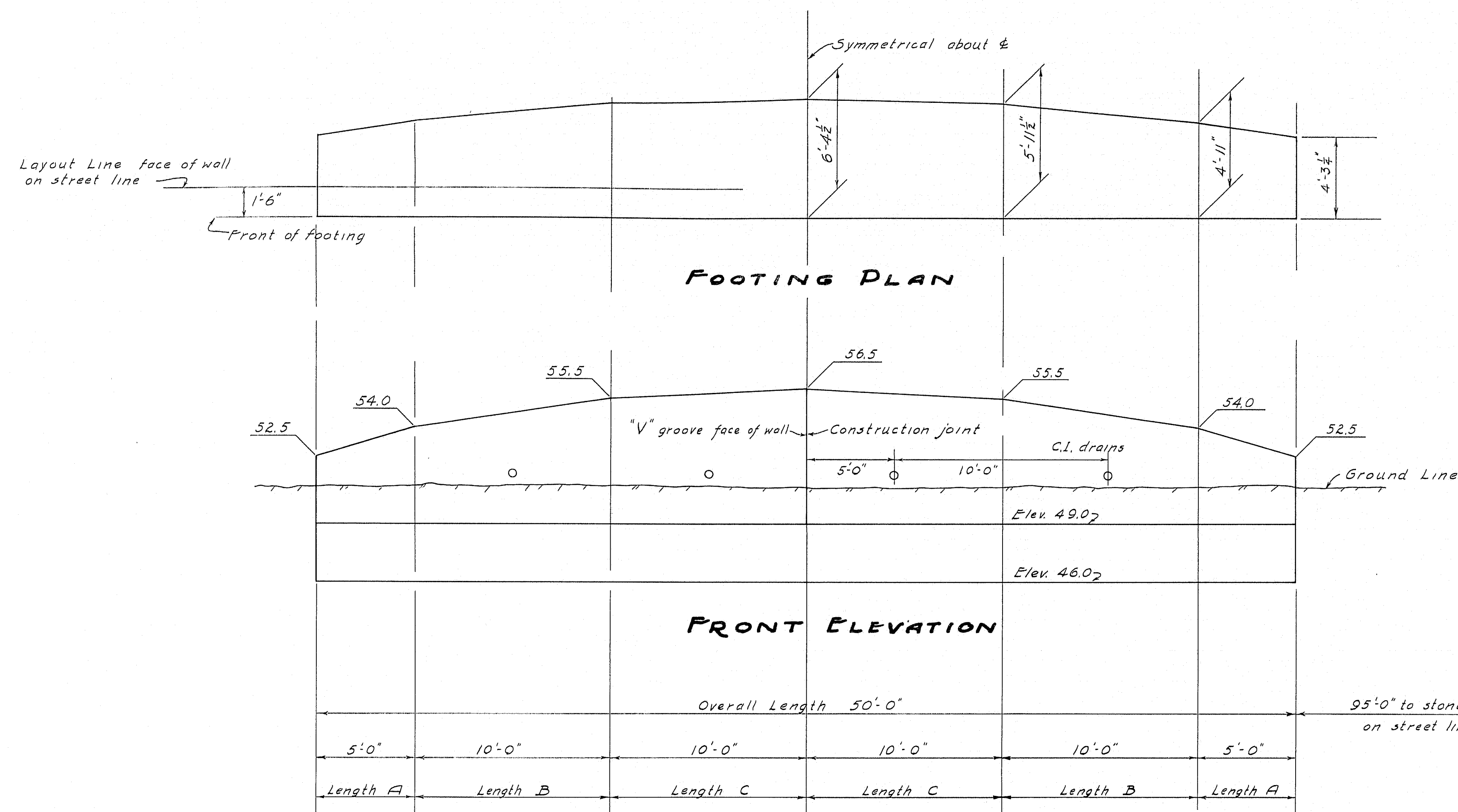
All Graded Areas to have 6" loam and
to be seeded.
All $1\frac{1}{2}:1$ slopes to be strip-sodded. (See Sh. #18)



LAYOUT FOR BEARINGS



DESIGN - STANGEL	TRACE - WHITE	BRIDGE - 5196
DETAIL -	CHECK -	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE		
OVER THE		
KENNEBEC RIVER		
IN THE CITY OF		
AUGUSTA		
KENNEBEC COUNTY		
ABUTMENT NO. 2		
SHEET 23 OF 45 AUGUSTA, MAINE FEB. 1948		



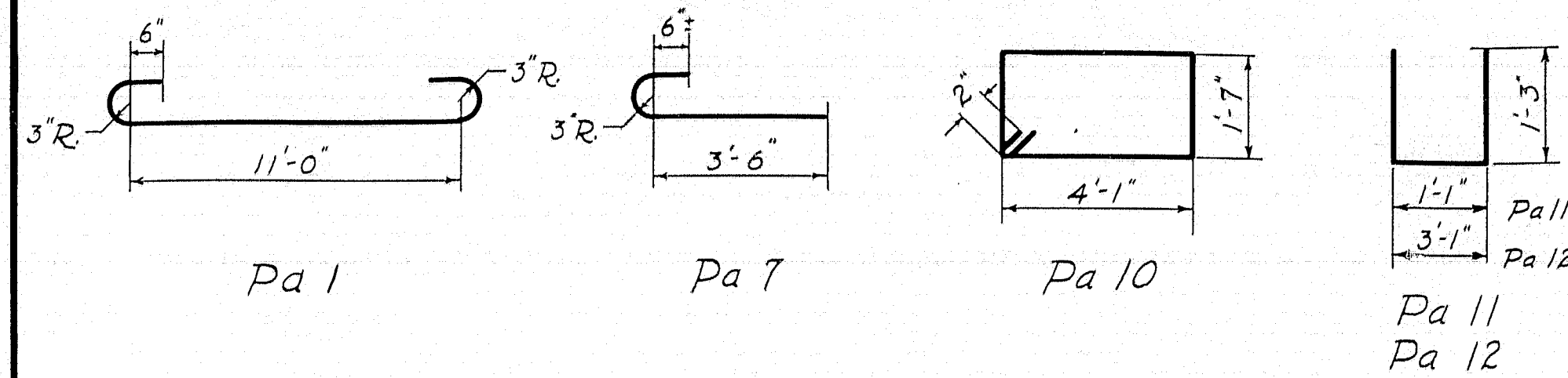
SCHEDULE of DIMENSIONS

Length	Batter	D	E
A	3 1/2"	1'-0 1/2" to 1'-5 1/2"	2'-6" to 4'-0"
B	4"	1'-8" to 2'-2"	4'-0" to 5'-6"
C	5"	2'-6 1/2" to 3'-1 1/2"	5'-6" to 6'-6"

DETAIL CONSTRUCTION JOINT

DESIGN - EVERETT	TRACE - FORTIER	BRIDGE - 5196
DETAIL - "	CHECK - GWS	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY ARSENAL STREET RETAINING WALL		
SHEET 24 OF 45 AUGUSTA, MAINE FEB. 1948		

PIER No. 1



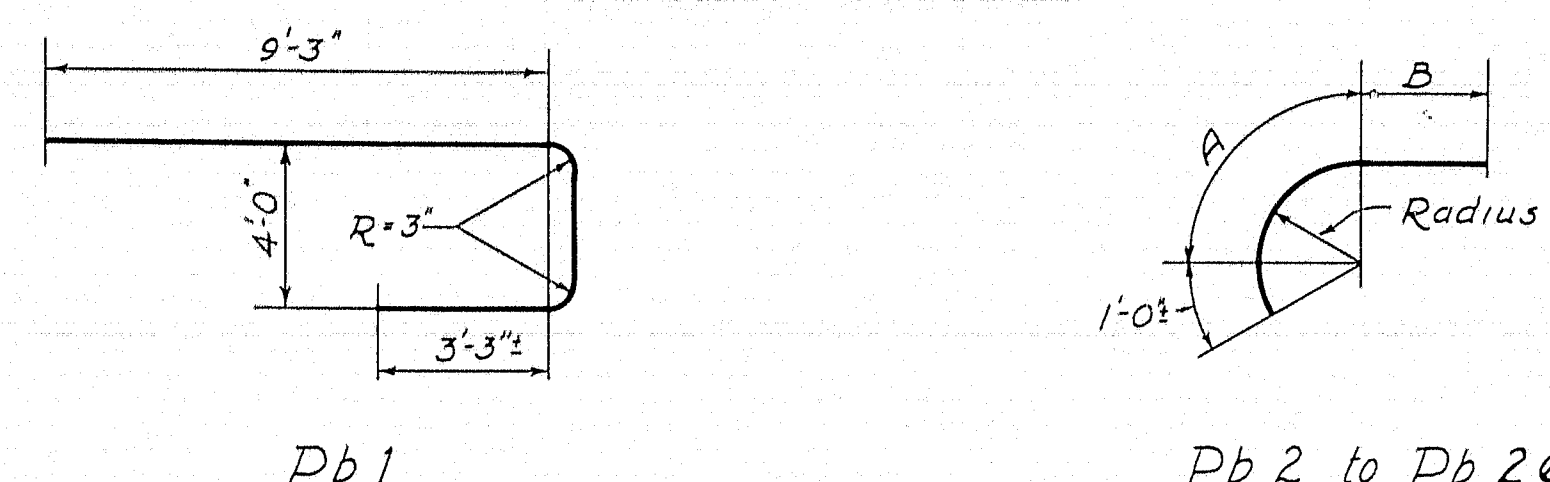
BENT BARS

Mark	Size	No.	Length	Location
Pa 1	3/8"	84	13'-7"	Footings
Pa 7	3/8"	32	4'-9"	Pier Cap
Pa 10	3/8"	26	11'-8"	Column
Pa 11	3/8"	40	3'-7"	"
Pa 12	3/8"	20	5'-7"	"

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pa 2	1/2"	12	8'-6"	Pier Shaft
Pa 3	1/2"	12	9'-2"	"
Pa 4	1/2"	68	8'-6"	"
Pa 5	1/2"	34	9'-6"	Cap
Pa 6	1/2"	32	9'-0"	"
Pa 8	1/2"	22	14'-0"	Column
Pa 9	1/2"	32	20'-6"	"

PIER No. 2



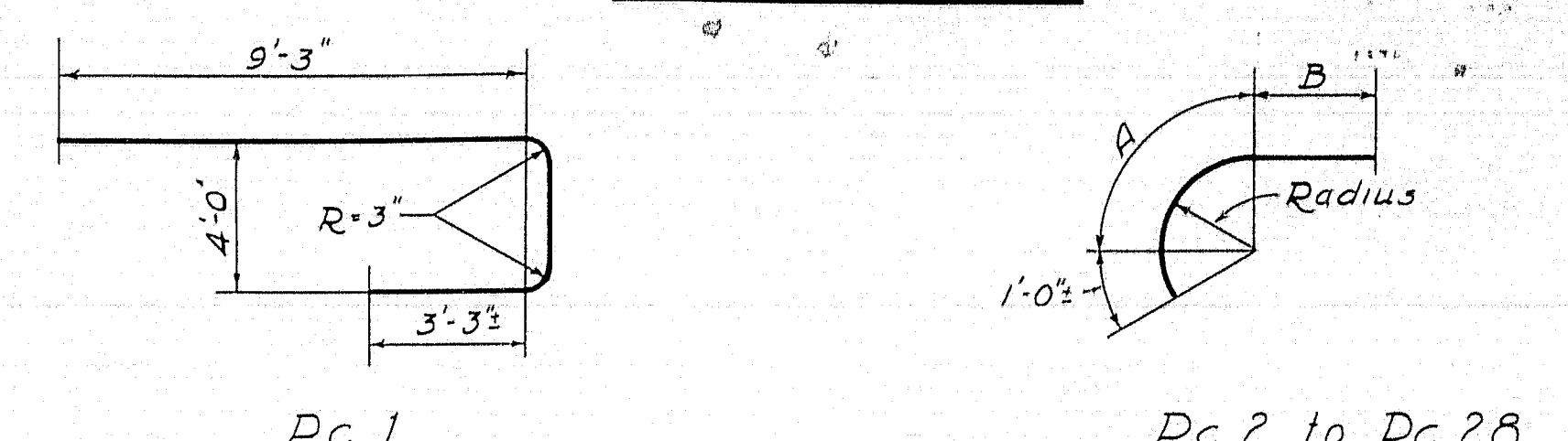
BENT BARS

Mark	Size	No.	Radius	A	B	Length	Location
Pb 1	3/8"	26	—	—	—	16'-9"	Under bearing areas
Pb 2	1/2"	4	8'-7"	13'-6"	2'-0"	16'-6"	Pier Shaft (hor. bars)
Pb 3	"	2	8'-8 1/2"	13'-8 1/2"	"	16'-8"	"
Pb 4	"	2	8'-10"	13'-10 1/2"	"	16'-10"	"
Pb 5	"	2	8'-11 1/2"	14'-1"	"	17'-1"	"
Pb 6	"	2	9'-1"	14'-3"	"	17'-3"	"
Pb 7	"	2	9'-2 1/2"	14'-5 1/2"	"	17'-5"	"
Pb 8	"	2	9'-4"	14'-8"	"	17'-8"	"
Pb 9	"	2	9'-5 1/2"	14'-10 1/2"	"	17'-10"	"
Pb 10	"	2	9'-7"	15'-0 1/2"	"	18'-0"	"
Pb 11	"	2	9'-8 1/2"	15'-3"	"	18'-3"	"
Pb 12	"	2	9'-10"	15'-5 1/2"	"	18'-5"	"
Pb 13	"	2	9'-11 1/2"	15'-7 1/2"	"	18'-8"	"
Pb 14	"	2	10'-1"	15'-10 1/2"	2'-0"	18'-10"	"
Pb 15	"	2	8'-8 1/2"	13'-8 1/2"	2'-4"	17'-0"	"

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pb 27	3/8"	36	12'-6"	Under bearing areas
Pb 28	"	72	38'-0"	Pier Shaft (vert. bars)
Pb 29	1/2"	26	21'-11"	" (hor. bars)

PIER No. 3



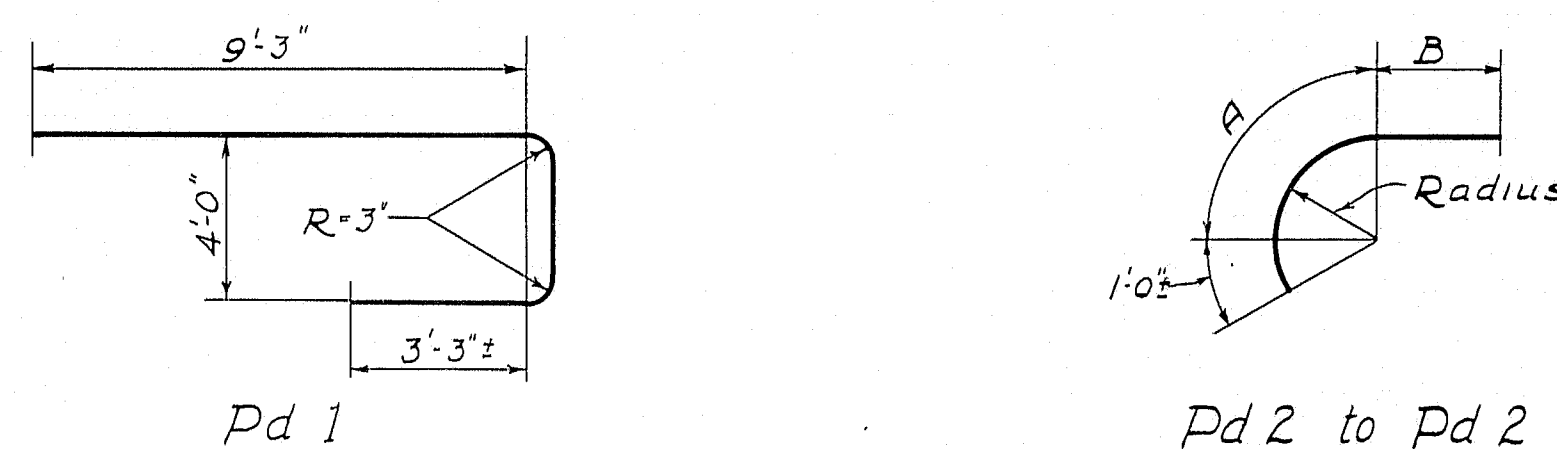
BENT BARS

Mark	Size	No.	Radius	A	B	Length	Location
Pc 1	3/8"	26	—	—	—	16'-9"	Under bearing areas
Pc 2	1/2"	4	8'-7"	13'-6"	2'-0"	16'-6"	Pier Shaft (hor. bars)
Pc 3	"	2	8'-8 1/2"	13'-8 1/2"	"	16'-8"	"
Pc 4	"	2	8'-10"	13'-10 1/2"	"	16'-10"	"
Pc 5	"	2	8'-11 1/2"	14'-1"	"	17'-1"	"
Pc 6	"	2	9'-1"	14'-3"	"	17'-3"	"
Pc 7	"	2	9'-2 1/2"	14'-5 1/2"	"	17'-5"	"
Pc 8	"	2	9'-4"	14'-8"	"	17'-8"	"
Pc 9	"	2	9'-5 1/2"	14'-10 1/2"	"	17'-10"	"
Pc 10	"	2	9'-7"	15'-0 1/2"	"	18'-0"	"
Pc 11	"	2	9'-8 1/2"	15'-3"	"	18'-3"	"
Pc 12	"	2	9'-10"	15'-5 1/2"	"	18'-5"	"
Pc 13	"	2	9'-11 1/2"	15'-7 1/2"	"	18'-8"	"
Pc 14	"	2	10'-1"	15'-10 1/2"	2'-0"	19'-0"	"
Pc 15	"	2	8'-8 1/2"	13'-8 1/2"	2'-4"	17'-0"	"

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pc 29	3/8"	36	12'-6"	Under bearing areas
Pc 30	"	72	41'-0"	Pier Shaft (vert. bars)
Pc 31	1/2"	28	21'-11"	" (hor. bars)

PIER No. 4



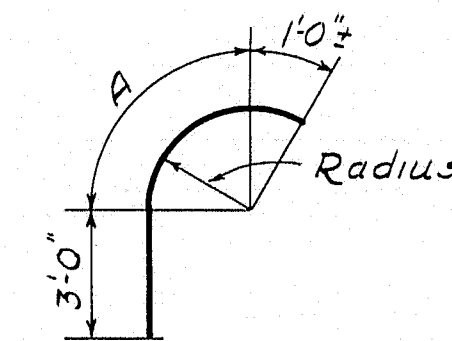
BENT BARS

Mark	Size	No.	Radius	A	B	Length	Location
Pd 1	3/8"	26	—	—	—	16'-9"	Under bearing areas
Pd 2	1/2"	4	8'-7"	13'-6"	2'-0"	16'-6"	Pier Shaft (hor. bars)
Pd 3	"	2	8'-8 1/2"	13'-8 1/2"	"	16'-8"	"
Pd 4	"	2	8'-10"	13'-10 1/2"	"	16'-10"	"
Pd 5	"	2	8'-11 1/2"	14'-1"	"	17'-1"	"
Pd 6	"	2	9'-1"	14'-3"	"	17'-3"	"
Pd 7	"	2	9'-2 1/2"	14'-5 1/2"	"	17'-5"	"
Pd 8	"	2	9'-4"	14'-8"	"	17'-8"	"
Pd 9	"	2	9'-5 1/2"	14'-10 1/2"	"	17'-10"	"
Pd 10	"	2	9'-7"	15'-0 1/2"	"	18'-0"	"
Pd 11	"	2	9'-8 1/2"	15'-3"	"	18'-3"	"
Pd 12	"	2	9'-10"	15'-5 1/2"	"	18'-5"	"
Pd 13	"	2	9'-11 1/2"	15'-7 1/2"	"	18'-8"	"
Pd 14	"	2	10'-1"	15'-10 1/2"	2'-0"	18'-10"	"
Pd 15	"	2	8'-8 1/2"	13'-8 1/2"	2'-4"	17'-0"	"

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pd 27	3/8"	36	12'-6"	Under bearing areas
Pd 28	"	72	38'-0"	Pier Shaft (vert. bars)
Pd 29	1/2"	26	21'-11"	" (hor. bars)

PIER No. 5



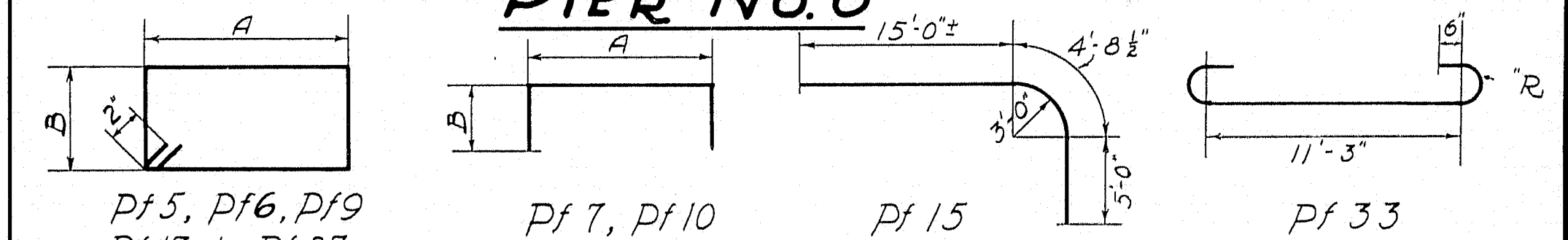
BENT BARS

Mark	Size	No.	Radius	A	Length	Location
Pe 5	1/2"	4	4'-6 1/2"	7'-1 1/2"	11'-1"	Pier Shaft (hor. bars)
Pe 6	"	4	4'-8"	7'-4"	11'-4"	"
Pe 7	"	4	4'-9 1/2"	7'-6 1/2"	11'-6"	"
Pe 8	"	4	4'-11"	7'-8 1/2"	11'-8"	"
Pe 9	"	4	5'-0 1/2"	7'-11"	11'-11"	"
Pe 10	"	4	5'-2"	8'-1 1/2"	12'-1"	"
Pe 11	"	4	5'-3 1/2"	8'-3 3/4"	12'-4"	"
Pe 12	"	4	5'-5"	8'-9"	12'-9"	"

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pe 1	3/8"	32	15'-8"	Footings
Pe 2	"	12	21'-9"	" (Splice)
Pe 3	"	52	23'-7"	Pier Shaft (vert. bars)
Pe 4	"	52	6'-0"	Dowels in footing
Pe 13	1/2"	16	23'-6"	Pier Shaft (hor. bars)
Pe 14	1/2"	4	17'-5"	Footings (splice)
Pe 15	"	4	18'-5"	"
Pe 16	"	4	19'-4"	"
Pe 17	"	4	20'-5"	"

PIER No. 6



BENT BARS

Mark	Size	No.	A	B	Length	Location
Pf 5	1/2"	62	5'-4 1/2"	5'-1 1/2"	21'-4"	Pier Columns
Pf 6	"	36	5'-1 1/2"	1'-1 1/2"	12'-10"	"
Pf 9	"	22	5'-4 1/2"	1'-10 1/2"	14'-10"	"
Pf 7	"	64	4'-1 1/2"	1'-6"	7'-1"	"
Pf 10	"	64	4'-4 1/2"	1'-6"	7'-4"	"
Pf 15	1"	16	—	—	24'-8"	Strut
Pf 17	1/2"	1	2'-1 1/2"	2'-5 1/2"	9'-6"	"
Pf 18	"	2	2'-1 1/2"	"	9'-6"	"
Pf 19	"	2	2'-2 1/2"	"	9'-7"	"
Pf 20	"	2	2'-3 1/2"	"	9'-10"	"
Pf 21	1/2"	2	2'-4 1/2"	2'-5 1/2"	10'-1"	Pier Strut
Pf 22	"	2	2'-6 1/2"	"	10'-5"	"
Pf 23	"	2	2'-9 1/2"	"	10'-10"	"
Pf 24	"	2	3'-0 1/2"	"	11'-3"	"
Pf 25	"	2	3'-3 1/2"	"	11'-10"	"
Pf 26	"	2	3'-7 1/2"	"	12'-6"	"
Pf 27	"	2	4'-0"	"	13'-3"	"
Pf 33	1"	16	—	—	15'-5"	Footings

STRAIGHT BARS

Mark	Size	No.	Length	Location
Pf 1	1"	80	15'-0"	Pier Shaft to Column
Pf 2	1"	80	26'-6"	Pier Column
Pf 3	"	68	18'-0"	"
Pf 4	"	24	15'-0"	"
Pf 8	3/8"	32	30'-0"	"
Pf 11	"	28	10'-6"	Column Base
Pf 12	"	16	6'-6"	"
Pf 13	"	46	17'-0"	Pier Shaft
Pf 14	1/2"	12	34'-0"	"
Pf 16	1"	8	34'-0"	Strut
Pf 28	3/8"	14	4'-6"	Br. Seat
Pf 29	"	18	3'-6"	"
Pf 30	1"	46	4'-0"	Footings (Top)
Pf 31	3/8"	37	13'-0"	"
Pf 32	"	26	25'-6"	"

Note: All dimensions to # steel.

PLAN - WHITE

TRACE - PORTER

CHECK - *[Signature]*

BRIDGE - 5196

STATE HIGHWAY COMMISSION

BRIDGE DIVISION

AUGUSTA BRIDGE

OVER THE

KENNEBEC RIVER

IN THE CITY OF

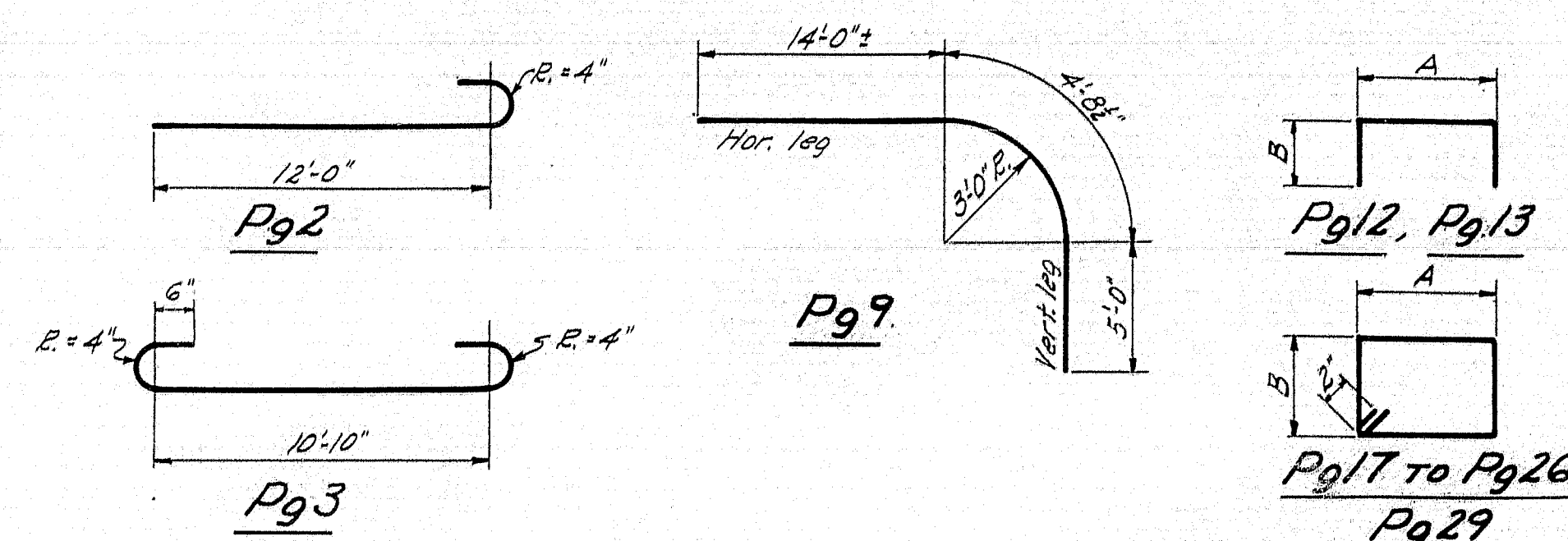
AUGUSTA

KENNEBEC COUNTY

REINF. STEEL - PIERS 1 TO 6

SHEET 25 OF 45 AUGUSTA, MAINE FEB. 1948

PIER No. 7



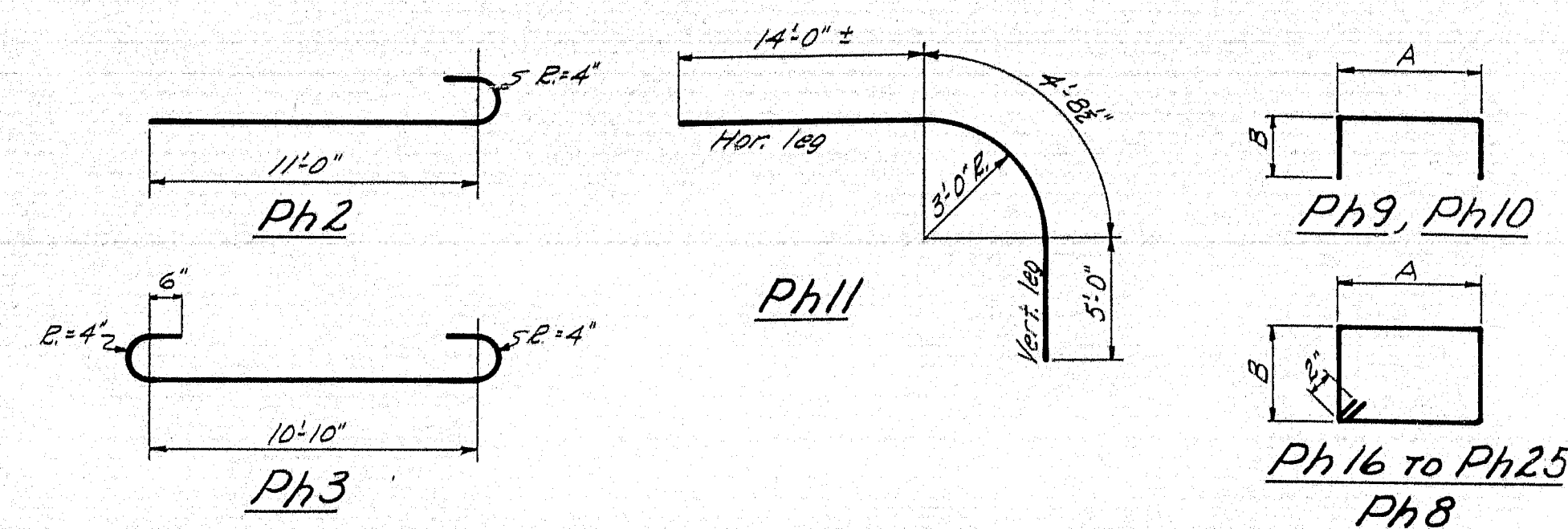
STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Pg1	1"	8	6'-0"	Footings
Pg4	1 1/2"	44	12'-0"	Column
Pg5	1 1/2"	44	27'-0"	"
Pg7	1 1/2"	56	33'-0"	"
Pg8	3/4"	64	25'-0"	"
Pg11	1 1/2"	16	32'-0"	Strut to Column
Pg15	1 1/2"	32	22'-0"	Column
Pg16	3/4"	38	4'-6"	" (Top)
Pg17	3/4"	26	9'-6"	" (Base)
Pg28	3/4"	16	5'-6"	"

BENT BARS

MARK	SIZE	NO.	A	B	LENGTH	LOCATION
Pg2	1 1/2"	88	—	—	13'-6"	Footings to Columns
Pg3	1"	76	—	—	14'-0"	Footings
Pg9	1 1/2"	32	—	—	23'-8"	Strut to Column
Pg12	3/4"	96	3'-2 1/2"	1'-6"	6'-8"	Columns
Pg13	"	96	3'-2 1/2"	1'-6"	6'-8"	"
Pg17	"	2	3'-2 1/2"	14'-1"	14'-1"	Strut
Pg18	"	2	3'-3"	14'-2"	14'-2"	"
Pg19	"	2	3'-4"	14'-4"	14'-4"	"
Pg20	"	2	3'-5"	14'-7"	14'-7"	"
Pg21	"	2	3'-7 1/2"	14'-11"	14'-11"	"
Pg22	"	2	3'-9 1/2"	15'-3"	15'-3"	"
Pg23	"	2	4'-0 1/2"	15'-9"	15'-9"	"
Pg24	"	2	4'-3 3/8"	16'-4"	16'-4"	"
Pg25	"	2	4'-7 1/8"	16'-11"	16'-11"	"
Pg26	"	2	3'-8 1/2"	4'-11 1/2"	17'-8"	Strut
Pg29	3/4"	112	4'-8 1/2"	4'-2 1/2"	18'-1"	Columns

PIER No. 8



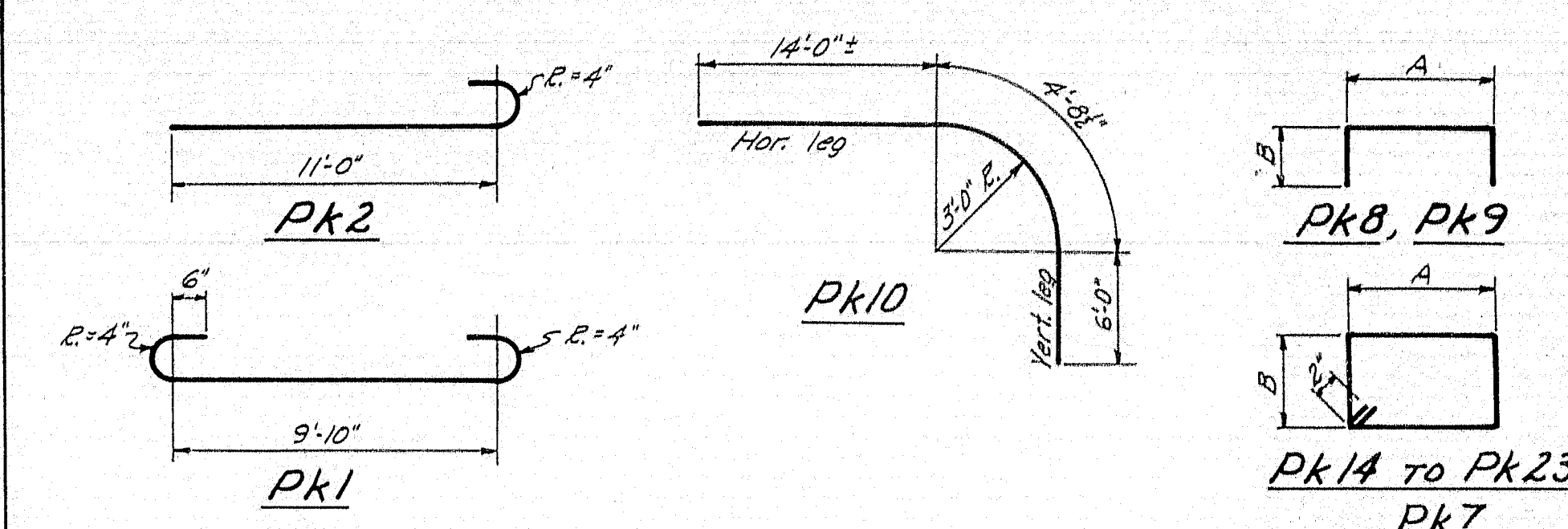
STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Ph1	1"	8	6'-0"	Footings
Ph4	3/4"	26	9'-6"	Column Base
Ph5	3/4"	16	5'-6"	"
Ph6	1"	136	22'-0"	Column
Ph7	3/4"	32	37'-0"	"
Ph13	1 1/2"	16	32'-0"	Strut to Column
Ph14	1 1/2"	32	20'-0"	Column
Ph15	3/4"	38	4'-6"	" (Top)

BENT BARS

MARK	SIZE	NO.	A	B	LENGTH	LOCATION
Ph2	1"	68	—	—	12'-6"	Footings to Column
Ph3	1"	76	—	—	14'-0"	Footings
Ph8	3/4"	80	4'-8 1/2"	4'-2 1/2"	18'-1"	Columns
Ph9	3/4"	64	3'-2 1/2"	1'-6"	6'-2"	"
Ph10	3/4"	64	3'-2 1/2"	1'-6"	6'-8"	"
Ph11	1 1/2"	32	—	—	23'-8"	Strut to Column
Ph16	3/4"	2	3'-0 1/2"	3'-2 1/2"	14'-1"	Strut
Ph17	"	2	3'-3"	14'-2"	14'-2"	"
Ph18	"	2	3'-4"	14'-4"	14'-4"	"
Ph19	"	2	3'-5 1/2"	14'-7"	14'-7"	"
Ph20	"	2	3'-7 1/2"	14'-11"	14'-11"	"
Ph21	"	2	3'-9 1/2"	15'-3"	15'-3"	"
Ph22	"	2	4'-0 1/2"	15'-9"	15'-9"	"
Ph23	"	2	4'-3 3/8"	16'-4"	16'-4"	"
Ph24	"	2	4'-7 1/8"	16'-11"	16'-11"	"
Ph25	3/4"	2	3'-8 1/2"	4'-11 1/2"	17'-8"	Strut

PIER No. 9



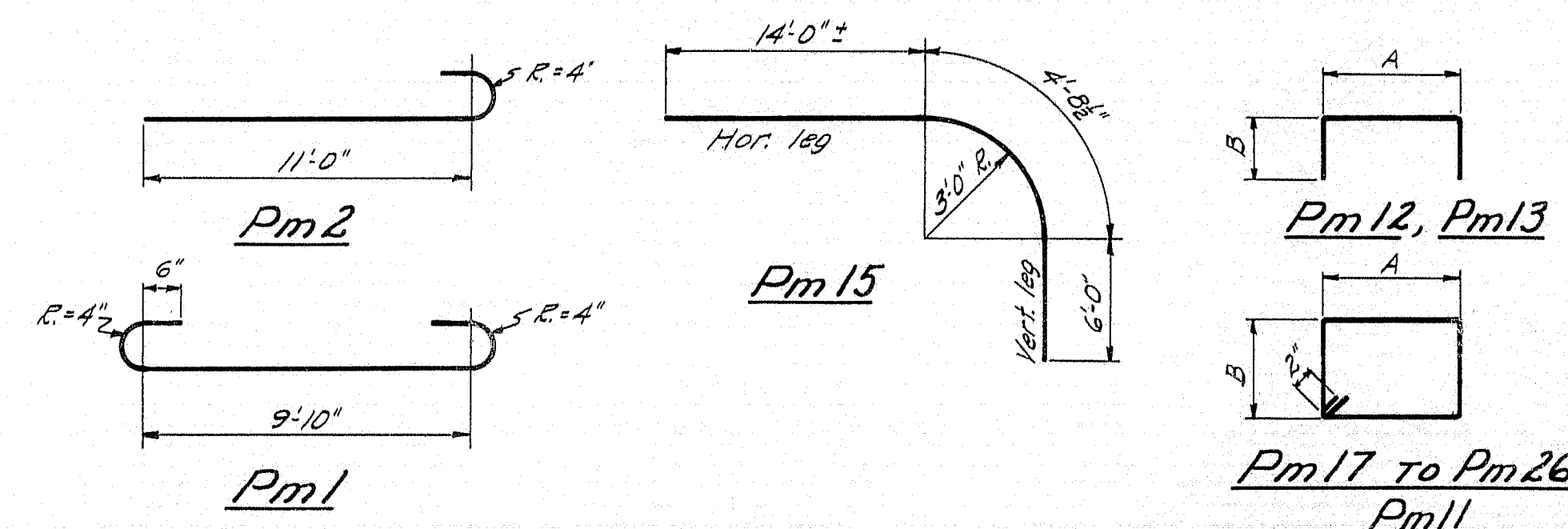
STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Pk3	3/4"	24	8'-6"	Column Base
Pk4	3/4"	16	5'-6"	"
Pk5	1"	68	20'-4"	Columns
Pk6	3/4"	32	13'-6"	"
Pk11	1 1/2"	8	32'-0"	Strut
Pk12	1 1/2"	10	10'-0"	Columns
Pk13	3/4"	38	4'-6"	Columns (Top)

BENT BARS

MARK	SIZE	NO.	A	B	LENGTH	LOCATION
Pk1	1"	56	—	—	13'-0"	Footings
Pk2	1"	68	—	—	12'-6"	Footings to Column
Pk7	3/4"	40	4'-8 1/2"	4'-2 1/2"	18'-1"	Columns
Pk8	"	28	3'-8 1/2"	1'-6"	6'-8"	"
Pk9	"	28	3'-2 1/2"	1'-6"	6'-2"	"
Pk10	1 1/2"	16	—	—	24'-8"	Strut
Pk14	3/4"	2	3'-8 1/2"	2'-2 1/2"	12'-1"	Strut
Pk15	"	2	2'-3"	12'-2"	12'-2"	"
Pk16	"	2	2'-4"	12'-4"	12'-4"	"
Pk17	"	2	2'-5 1/2"	12'-7"	12'-7"	"
Pk18	"	2	2'-7 1/2"	12'-11"	12'-11"	"
Pk19	"	2	2'-9 1/2"	13'-3"	13'-3"	"
Pk20	"	2	3'-0 1/2"	13'-9"	13'-9"	"
Pk21	"	2	3'-3 3/8"	14'-4"	14'-4"	"
Pk22	"	2	3'-7 1/8"	14'-11"	14'-11"	"
Pk23	3/4"	2	3'-8 1/2"	3'-11 1/2"	15'-8"	Strut

PIER No. 10



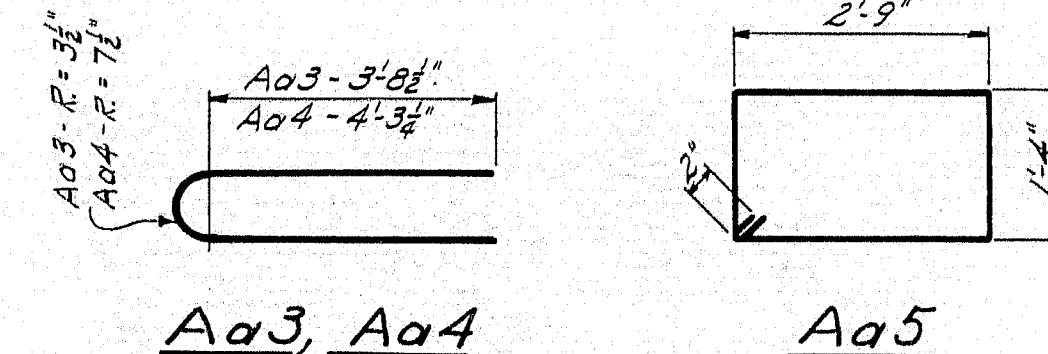
STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Pm4	3/4"	24	8'-6"	Column Base
Pm5	3/4"	16	5'-6"	"
Pm6	1"	34	24'-4"	Column #1
Pm7	1"	34	18'-4"	" #2
Pm8	3/4"	16	17'-6"	" #1
Pm9	3/4"	16	11'-6"	" #2
Pm10	1 1/2"	10	10'-0"	" #1 & #2
Pm14	3/4"	38	4'-6"	Columns (Top)
Pm16	1 1/2"	8	32'-0"	Strut

BENT BARS

MARK	SIZE	NO.	A	B	LENGTH	LOCATION
Pm1	1"	56	—	—	13'-0"	Footings
Pm2	1"	68	—	—	12'-6"	Footings to Column
Pm11	3/4"	42	4'-8 1/2"	4'-2 1/2"	18'-1"	Columns
Pm12	"	30	3'-8 1/2"	1'-6"	6'-8"	"
Pm13	"	30	3'-2 1/2"	1'-6"	6'-2"	"
Pm15	1 1/2"	16	—	—	24'-8"	Strut
Pm17	3/4"	2	3'-8 1/2"	2'-2 1/2"	12'-1"	"
Pm18	"	2	2'-3"	12'-2"	12'-2"	"
Pm19	"	2	2'-4"	12'-4"	12'-4"	"
Pm20	"	2	2'-5 1/2"	12'-7"	12'-7"	"
Pm21	"	2	2'-7 1/2"	12'-11"	12'-11"	"
Pm22	"	2	2'-9 1/2"	13'-3"	13'-3"	"
Pm23	"	2	3'-0 1/2"	13'-9"	13'-9"	"
Pm24	"	2	3'-3 3/8"	14'-4"	14'-4"	"
Pm25	"	2	3'-7 1/8"	14'-11"	14'-11"	"
Pm26	3/4"	2	3'-8 1/2"	3'-11 1/2"	15'-8"	Strut

ABUTMENT No. 1



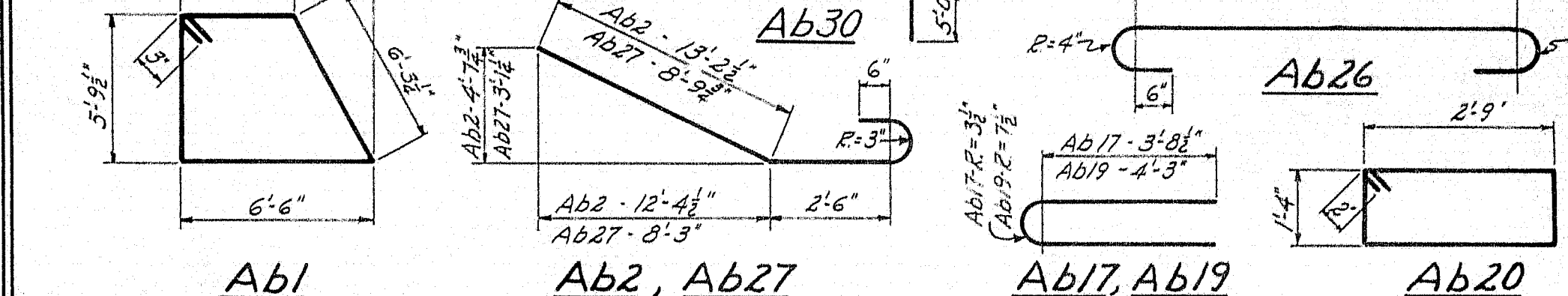
STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Aa1	3/4"	12	8'-0"	Cor. Br. Wall
Aa2	3/4"	16	7'-6"	Ret. Wall Rail

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Aa3	3/4"	10	8'-4"	Ret. Wall Rail
Aa4	3/4"	12	10'-6"	" " Post
Aa5	3/4"	12	8'-6"	" " "

ABUTMENT No. 2



STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Ab3	3/4"	16	24'-2"	Retaining Wall
Ab4	3/4"	6	4'-2"	"
Ab5	"	4	6'-3"	"
Ab6	"	4	8'-0"	"
Ab7	"	4	9'-6"	"
Ab8	"	4	11'-6"	"
Ab9	"	4	13'-3"	"
Ab10	"	6	15'-0"	"
Ab11	3/4"	2	16'-6"	"
Ab12	"	2	14'-6"	"
Ab13	"	2	12'-6"	"
Ab14	"	2	8'-6"	"
Ab15	"	2	6'-6"	"
Ab16	"	2	4'-6"	"
Ab18	"	6	10'-3"	Rail
Ab21	3/4"	31	11'-0"	Over Pile
Ab22	"	14	9'-0"	" (Splice)
Ab23	"	18	24'-0"	"
Ab24	"	2	19'-0"	"
Ab25	"	2	17'-6"	"
Ab28	3/4"	31	5'-9"	Backwall Br. Seat

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
Ab1	3/4"	19	23'-2"	Bridge Seat
Ab2	3/4"	41	17'-0"	Backwall
Ab17	3/4"	14	8'-4"	Rail
Ab19	3/4"	12	10'-6"	Rail Post
Ab20	3/4"	16	8'-6"	"
Ab26	1 1/2"	8	30'-11"	Bridge Seat
Ab27	3/4"	2	12'-7"	Backwall
Ab30	3/4"	8	20'-0"	Ret. Wall

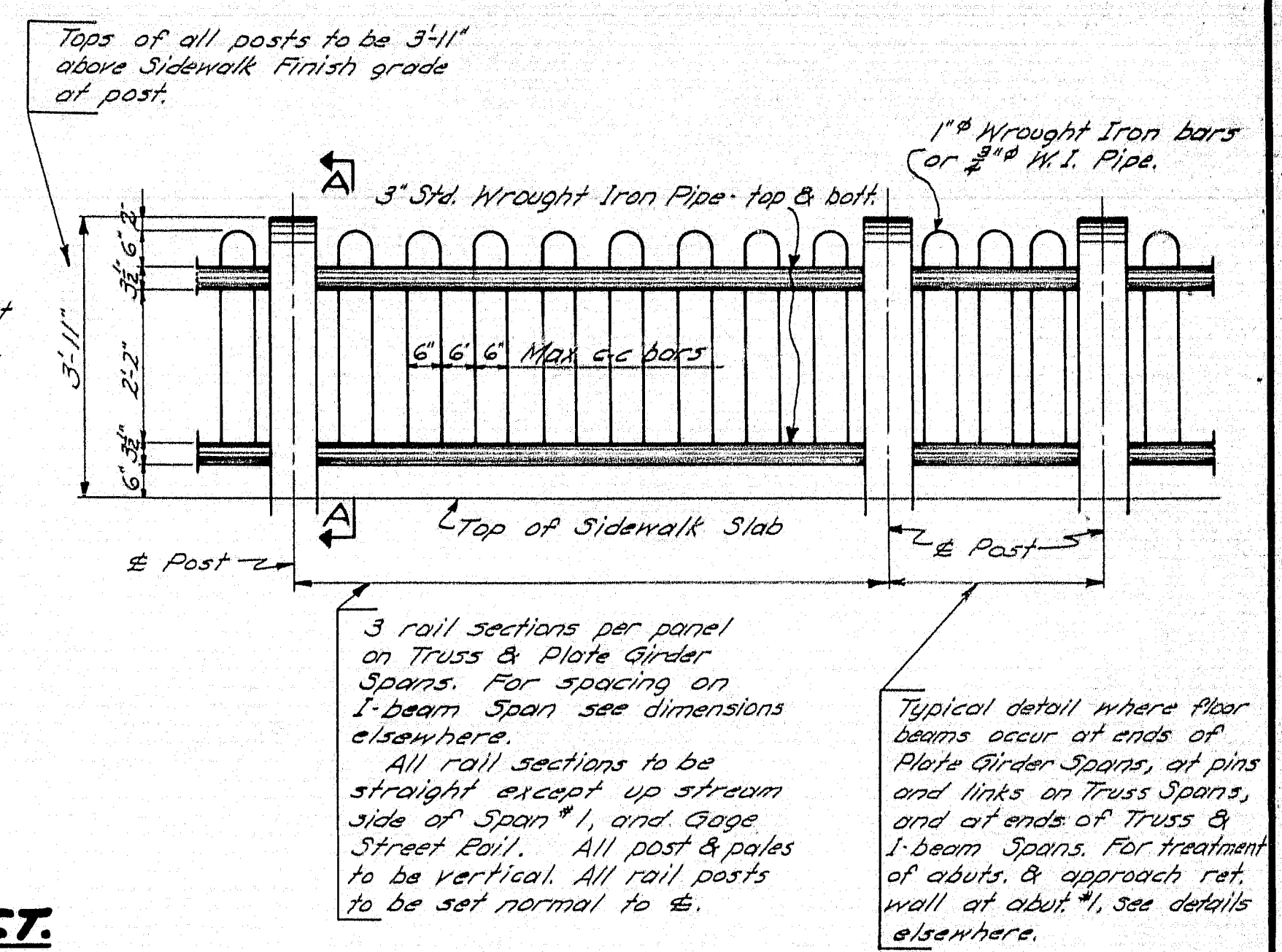
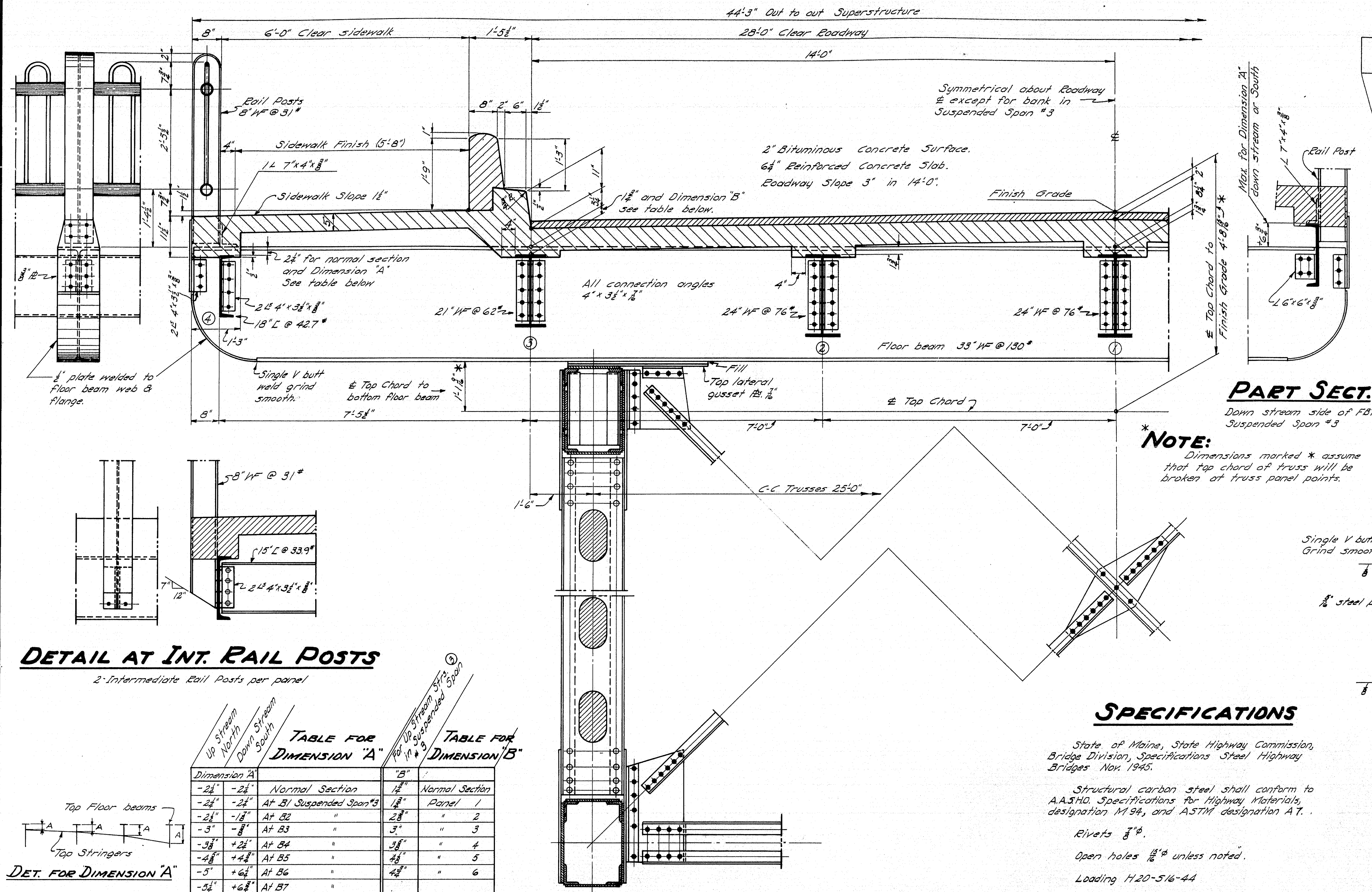
PLAN - WHITE
TRACE - CLARK
CHECK - AS NOTED

BRIDGE - 5196

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY

REIN. STEEL - ABUTS. & PIERS 7-8-9-10
SHEET 26 OF 45 AUGUSTA, MAINE FEB. 1948



PART RAIL ELEVATION

***NOTE:** Dimensions marked * assume that top chord of truss will be broken at truss panel points.

SPECIFICATIONS

State of Maine, State Highway Commission,
Bridge Division, Specifications Steel Highway
Bridges Nov. 1945.

Structural carbon steel shall conform to A.A.S.H.O. Specifications for Highway Materials, designation M 94, and ASTM designation A7.

Rivets 7" ϕ .

Open holes $\frac{15}{16} \phi$ unless noted.

Loading H20-516-44

Holes for field connections and field splices of Main Members, shall be sub-punched and reamed to a steel template or reamed while assembled.

SECT. A-A

SECT. B-B

RAIL DETAILS

Complete rail details to be furnished by the Contractor for approval before fabrication is started. W.I. Pipe sleeves, steel plates and bolts for connecting rail sections to posts, shall be furnished with W.I. Rail.

Rail posts on Superstructure to be Structural Steel.

VT. RAIL POSTS

Rail Posts per panel

Up Stream North Down Stream South		TABLE FOR DIMENSION "A"		Up Stream North Down Stream South		TABLE FOR DIMENSION "B"	
Dimension A				Dimension B			
-24"	-24"	Normal Section		12"		Normal Section	
-24"	-24"	At B1 Suspended Span	3	18"		Panel	1
-24"	-24"	At B2	"	24"		"	2
-3'	-3'	At B3	"	30"		"	3
-38"	+24"	At B4	"	36"		"	4
-48"	+48"	At B5	"	42"		"	5
-5'	+64"	At B6	"	48"		"	6
-54"	+68"	At B7	"				

HALF TYPICAL SECTION
TRUSS SPANS
NORMAL SECTION

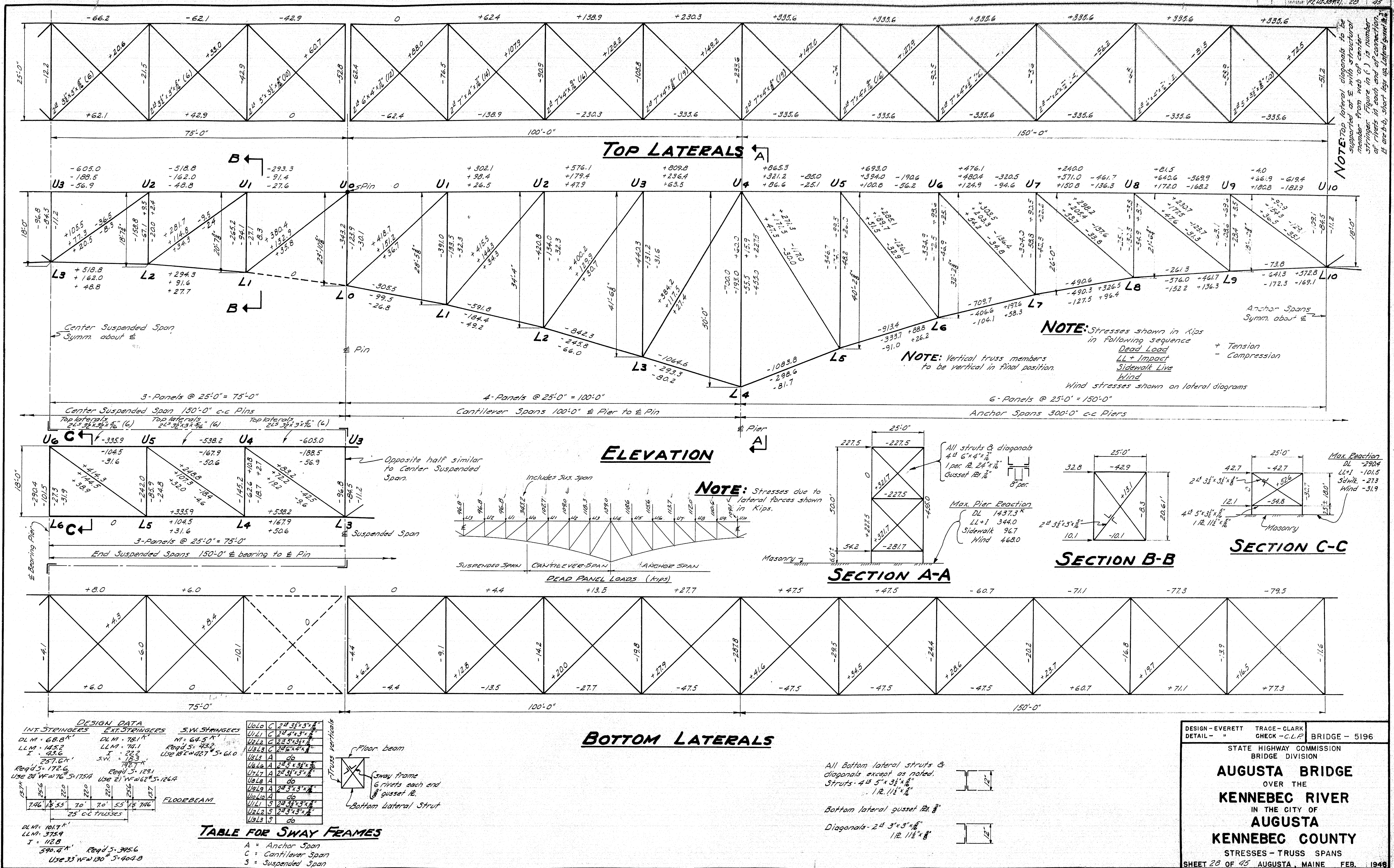
Normal Section is for all truss Spans except
Suspended Span # 3 (See Dimensions "A" & "B")

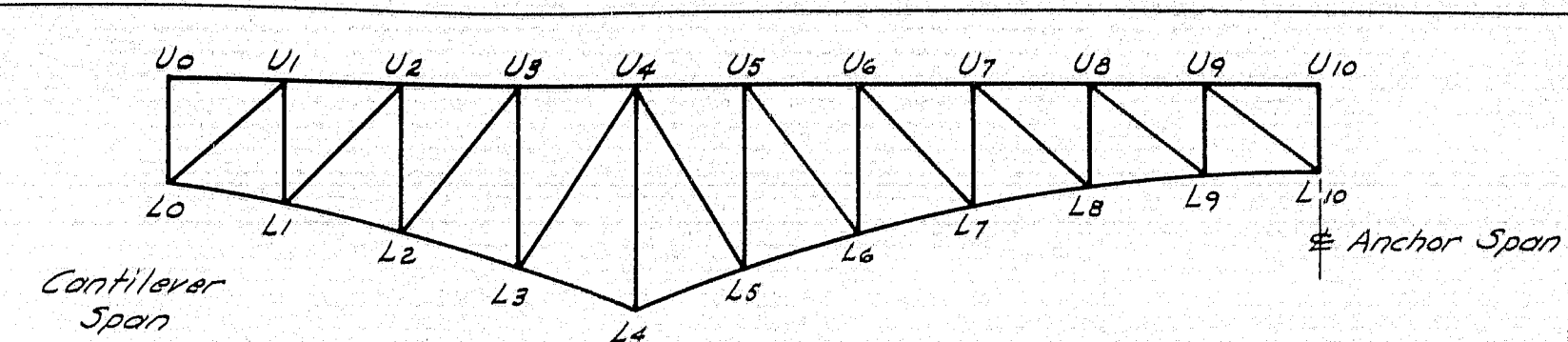
Revised, Specification
Reference, March, 1948.

DESIGN - EVERETT TRACE - CLARK
DETAIL - " CHECK - *CLP* BRIDGE - 5196

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
SUPERSTRUCTURE & RAIL DETAILS
SHEET 27 OF 45 AUGUSTA, MAINE FEB. 1948



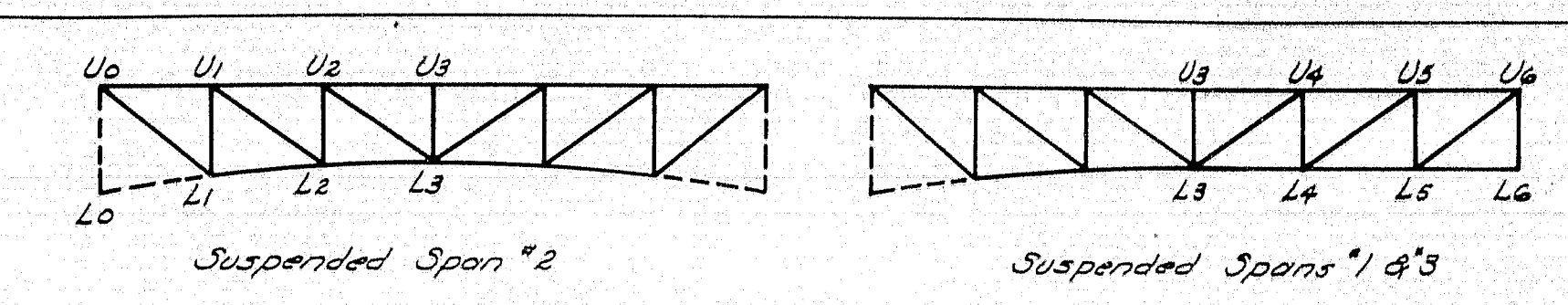


ANCHOR & CANTILEVER SPANS

Reference Sheet #10

U0U1 Use same section as U1U2	L0L1 Stress - 43.8 Regd. A 29.35" Gross A 43.75" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U0L0 Stress - 497.2 Regd. A 33.76" Gross A 42.96" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	L0U1 Stress +606.6 Regd. A 33.70" Net A 34.45" Gross A 44.09" Use same section as U0L0
U1U2 Stress +427.0 Net A regd. 23.72" Net A 26.61" Gross A 34.76" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L1L2 Stress -825.4 Regd. A 36.21" Gross A 36.44" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U1L1 Stress -556.8 Regd. A 38.19" Gross A 38.24" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	L1U2 Stress +594.1 Net A regd. 33.01" Net A 33.57" Gross A 42.96" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U2U3 Stress +803.4 Net A regd. 44.63" Net A 45.75" Gross A 61.36" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L2L3 Stress -1154.1 Regd. A 38.69" Gross A 39.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U2L2 Stress -587.1 Regd. A 40.94" Gross A 41.84" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	L2U3 Stress +560.8 Net A regd. 31.15" Net A 31.82" Gross A 40.71" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U3U4 Stress +1109.7 Net A regd. 61.65" Net A 63.35" Gross A 85.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L3L4 Stress -1438.1 Regd. A 37.9" Gross A 39.26" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U3L3 Stress -603.1 Regd. A 43.11" Gross A 44.09" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	L3U4 Stress +529.1 Net A regd. 29.39" Net A 31.82" Gross A 39.59" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U5U6 Stress +1218.7 Net A regd. 67.71" Net A 67.87" Gross A 91.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L4L5 Stress -1464.1 Regd. A 39.6" Gross A 39.26" Use same section as L3L4	U4L4 Stress -1122.8 Regd. A 80.29" Gross A 80.76" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 12"x $\frac{1}{2}$ "	U4L5 Stress +490.1 Net A regd. 27.23" Net A 28.07" Gross A 35.99" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U4U5 Stress +1287.0 Net A regd. 71.50" Net A 72.40" Gross A 97.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 12"x $\frac{1}{2}$ "	L5L6 Stress -1338.1 Regd. A 31.30" Gross A 32.64" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 12"x $\frac{1}{2}$ "	U5L5 Stress -569.6 Regd. A 40.70" Gross A 40.71" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	U5L6 Stress +526.3 Net A regd. 29.24" Net A 30.95" Gross A 38.24" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U6U7 Stress +1300.6 Net A regd. 72.26" Net A 72.40" Gross A 97.14" Use same section as U4U5	L6L7 Stress -1220.4 Regd. A 83.2" Gross A 83.64" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U6L6 Stress -554.3 Regd. A 38.57" Gross A 39.59" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	U6L7 Stress +561.0 Net A regd. 31.17" Net A 31.82" Gross A 40.71" Use same section as L2U3
U7U8 Stress +1344.2 Net A regd. 74.68" Net A 74.68" Gross A 100.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L7L8 Stress -1148.2 Net A regd. 6.63" Gross A 58.82" Gross A 79.14" Use same section as L2L3	U7L7 Stress -505.1 Regd. A 34.51" Gross A 35.99" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "	U7L8 Stress +597.3 Net A regd. 30.96" Net A 30.95" Gross A 39.59" 2 L 18"x5.9" 2 per R 17"x $\frac{1}{2}$ "
U8U9 Stress +1390.4 Net A regd. 77.24" Net A 78.09" Gross A 104.64" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L8L9 Stress -1197.1 Net A regd. 6.22" Net A 61.13" Gross A 81.49" Gross A 82.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U8L8 Stress -416.3 Regd. A 28.16" Gross A 30.59" 2 L 18"x4.27" 2 per R 17"x $\frac{1}{2}$ "	U8L9 Stress +455.8 Net A regd. 25.32" Net A 26.06" Gross A 33.51" 2 L 18"x4.5.8" 2 per R 17"x $\frac{1}{2}$ "
U9U10 Stress +1397.0 Net A regd. 77.61" Net A 78.09" Gross A 104.64" Use same section as U8U9	L9L10 Stress -1232.5 Net A regd. 57.52" Net A 63.44" Gross A 83.87" Gross A 85.14" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 16"x $\frac{1}{2}$ "	U9L9 Stress -300.1 Regd. A 20.29" Gross A 25.43" 2 L 15"x3.9" 2 per R 17"x $\frac{1}{2}$ "	U9L10 Stress +332.0 Net A regd. 18.44" Net A 19.05" Gross A 25.43" 2 L 15"x3.9" 2 per R 17"x $\frac{1}{2}$ "
	L10L11 Stress -204.8 Regd. A 13.82" Gross A 25.43" Use same section as U9L9	U10L11 Stress -204.8 Regd. A 13.82" Gross A 25.43" Use same section as U9L9	L4U5 Stress +388.1 Net A regd. 21.52" Net A 23.75" Gross A 30.59" 2 L 18"x4.27" 2 per R 17"x $\frac{1}{2}$ "
	L3U4 Stress +174.6 Net A regd. 9.70" Net A 19.05" Gross A 25.43" Use same section as U9L10	L5U6 Stress +597.7 Net A regd. 33.21" Net A 33.57" Gross A 42.96" Use same section as L1U2	U1L2 Stress +430.8 Net A regd. 23.93" Net A 25.19" Gross A 32.39" 2 L 18"x4.5.8" 2 per R 17"x $\frac{1}{2}$ "
			U2L3 Stress +203.3 Net A regd. 11.29" Net A 19.05" Gross A 25.43" Use same section as U9L10

NOTE: All members are figured for allowable unit stresses as follows: Tension = 18,000 $\frac{1}{2}$ (1)
Compression = 15,000 $\frac{1}{2}$ (1)
Gross areas shown include gross area of perforated plates less area of the perforation. (per = perforation.)
Minimum stagger for net section = $\frac{1}{2}$ inches.
All stresses shown in Kips.



SUSPENDED SPANS

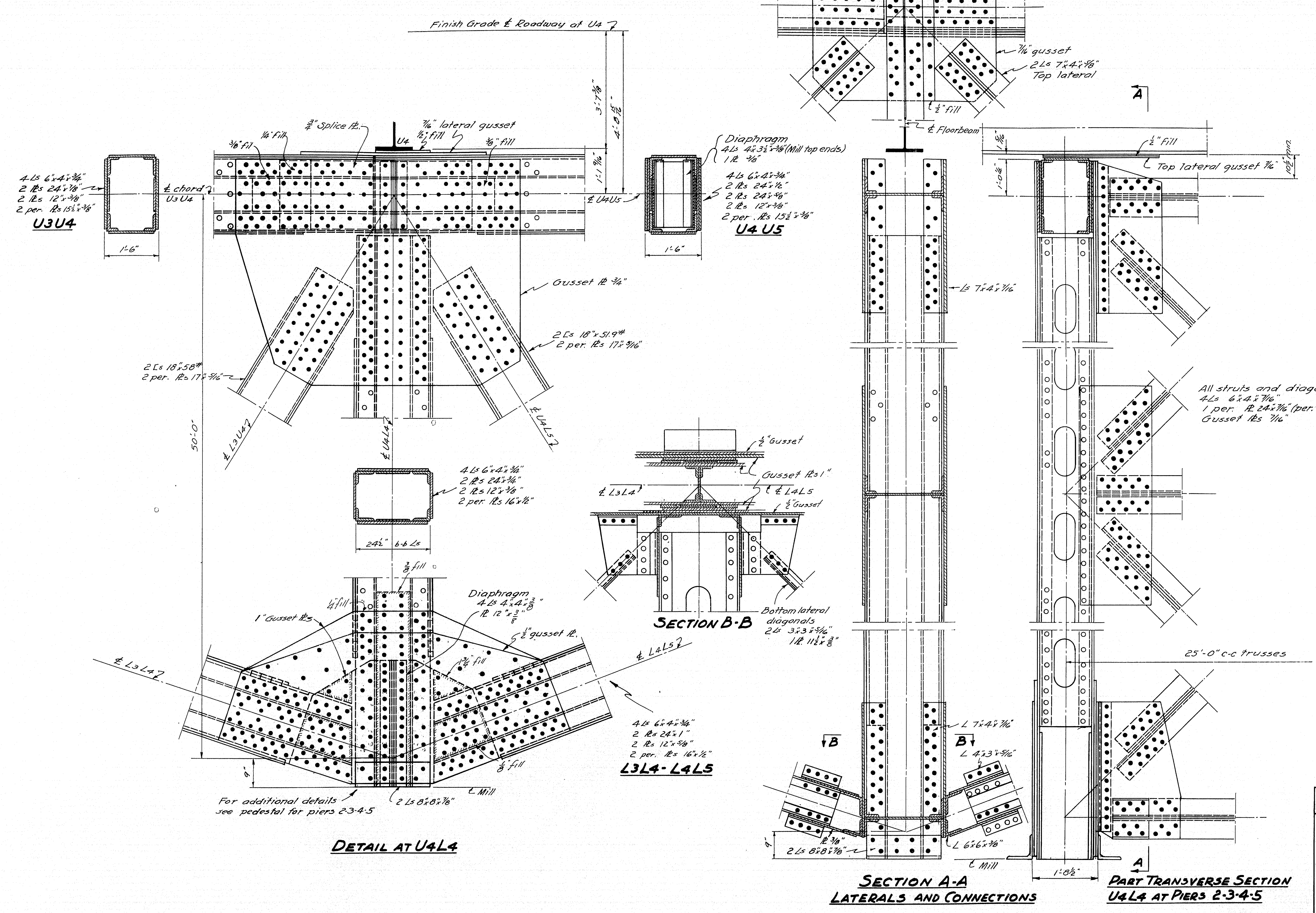
Reference Sheet #10

U0U1 Stress -412.3 Regd. A 28.03" Gross A 43.75" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	U3U4 Use same section as U2U3
U1U2 Stress -729.6 Regd. A 49.40" Gross A 49.75" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	U4U5 Stress -756.7 Regd. A 51.45" Gross A 52.03" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "
U2U3 Stress -850.4 Regd. A 57.83" Gross A 58.03" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	U5U6 Stress -472.0 Regd. A 32.09" Gross A 43.75" Use same section as U4U5
L0L1 Stress 0 Regd. A 0 Gross A 0 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L3L4 Stress +756.7 Regd. A 42.04" Net A 43.57" Gross A 58.75" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "
L1L2 Stress +413.6 Regd. A 22.98" Net A 24.29" Gross A 31.76" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L4L5 Stress +472.0 Regd. A 26.22" Net A 26.61" Gross A 34.75" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "
L2L3 Stress +729.6 Regd. A 40.33" Net A 40.41" Gross A 54.31" 4 L 6"x4"x $\frac{1}{2}$ " 2 R 24"x $\frac{1}{2}$ " 2 per R 15 $\frac{1}{2}$ "x $\frac{1}{2}$ "	L5L6 Use same section as L0L1
U1L1 Stress -386.4 Regd. A 26.24" Gross A 29.03" 2 L 15"x4.0" 2 per R 17"x $\frac{1}{2}$ "	U4L4 Stress -226.5 Regd. A 15.37" Gross A 17.69" Use same section as U2L2
U2L2 Stress -245.9 Regd. A 16.71" Gross A 17.69" 2 L 12"x2.07" 2 per R 17"x $\frac{1}{2}$ "	U5L5 Stress -352.7 Regd. A 28.88" Gross A 29.03" Use same section as U1L1
U3L3 Stress -192.5 Regd. A 13.07" Gross A 17.69" Use same section as U2L2	U6L6 Stress -419.2 Regd. A 28.31" Gross A 29.03" Use same section as U1L1
U0L1 Stress +549.1 Regd. A 30.51" Net A 30.95" Gross A 39.59" Use same section as L3U4	
U1L2 Stress +430.8 Regd. A 23.93" Net A 25.19" Gross A 32.39" 2 L 18"x4.5.8" 2 per R 17"x $\frac{1}{2}$ "	
U2L3 Stress +203.3 Regd. A 11.29" Net A 19.05" Gross A 25.43" Use same section as U9L10	

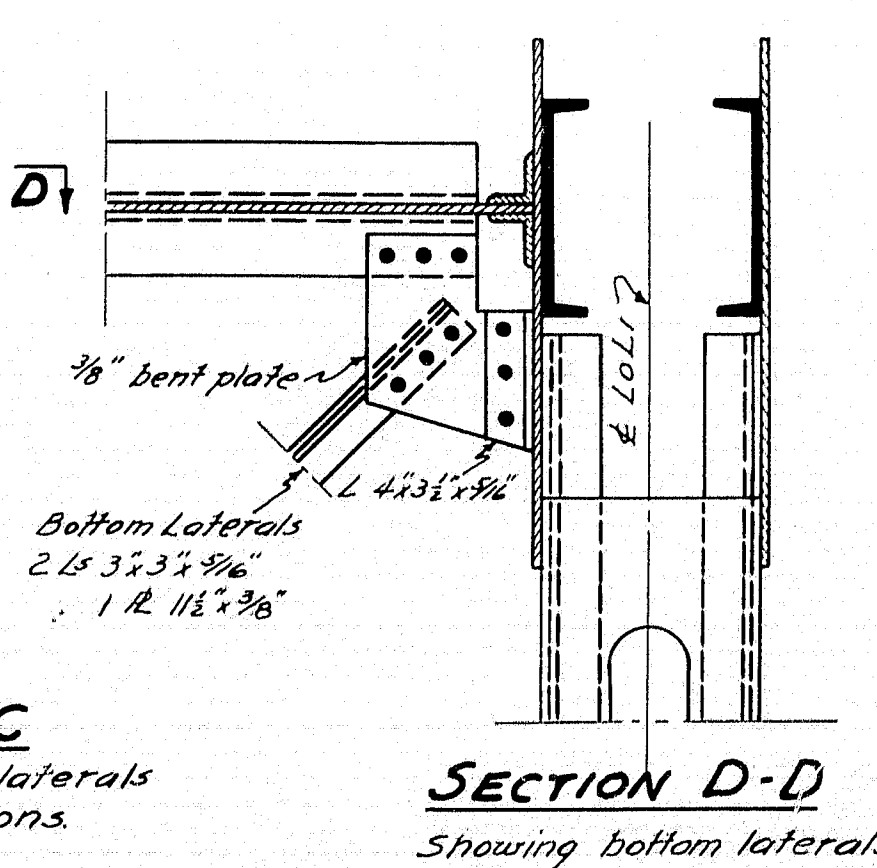
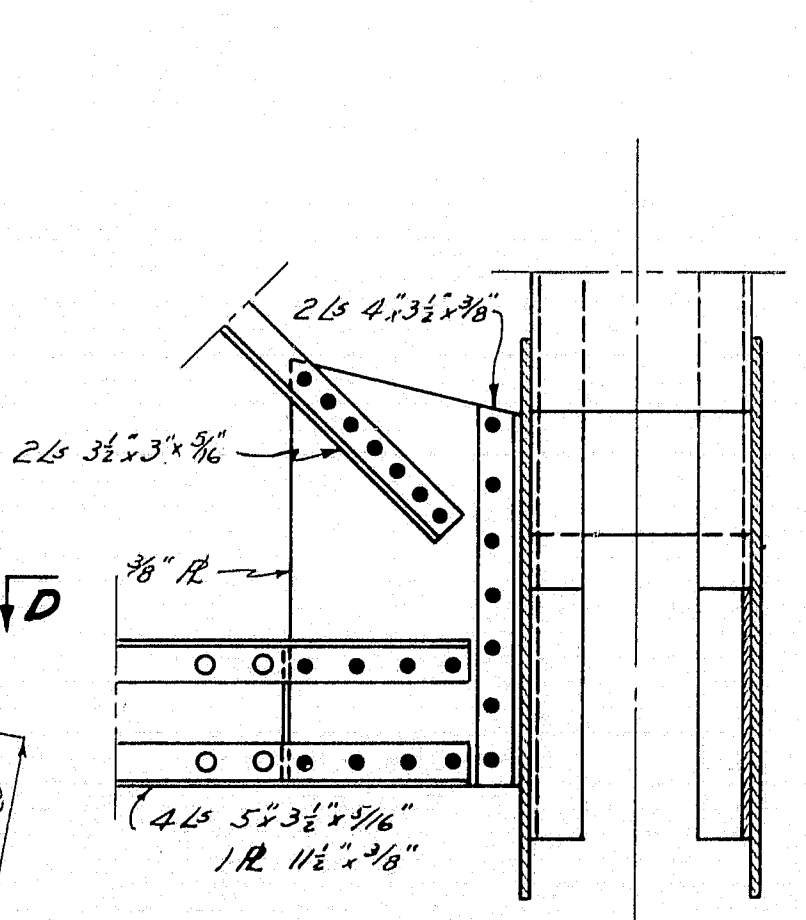
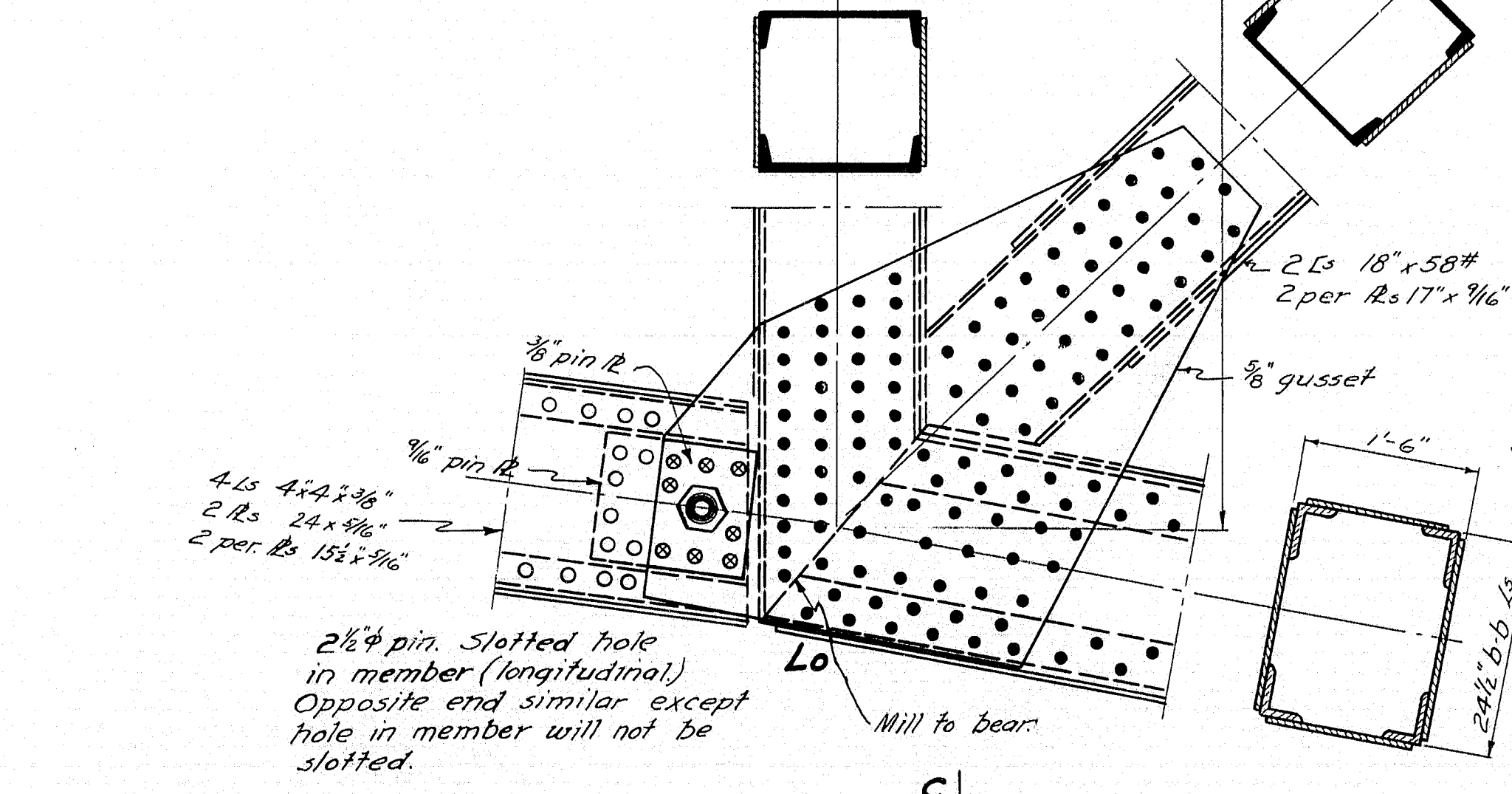
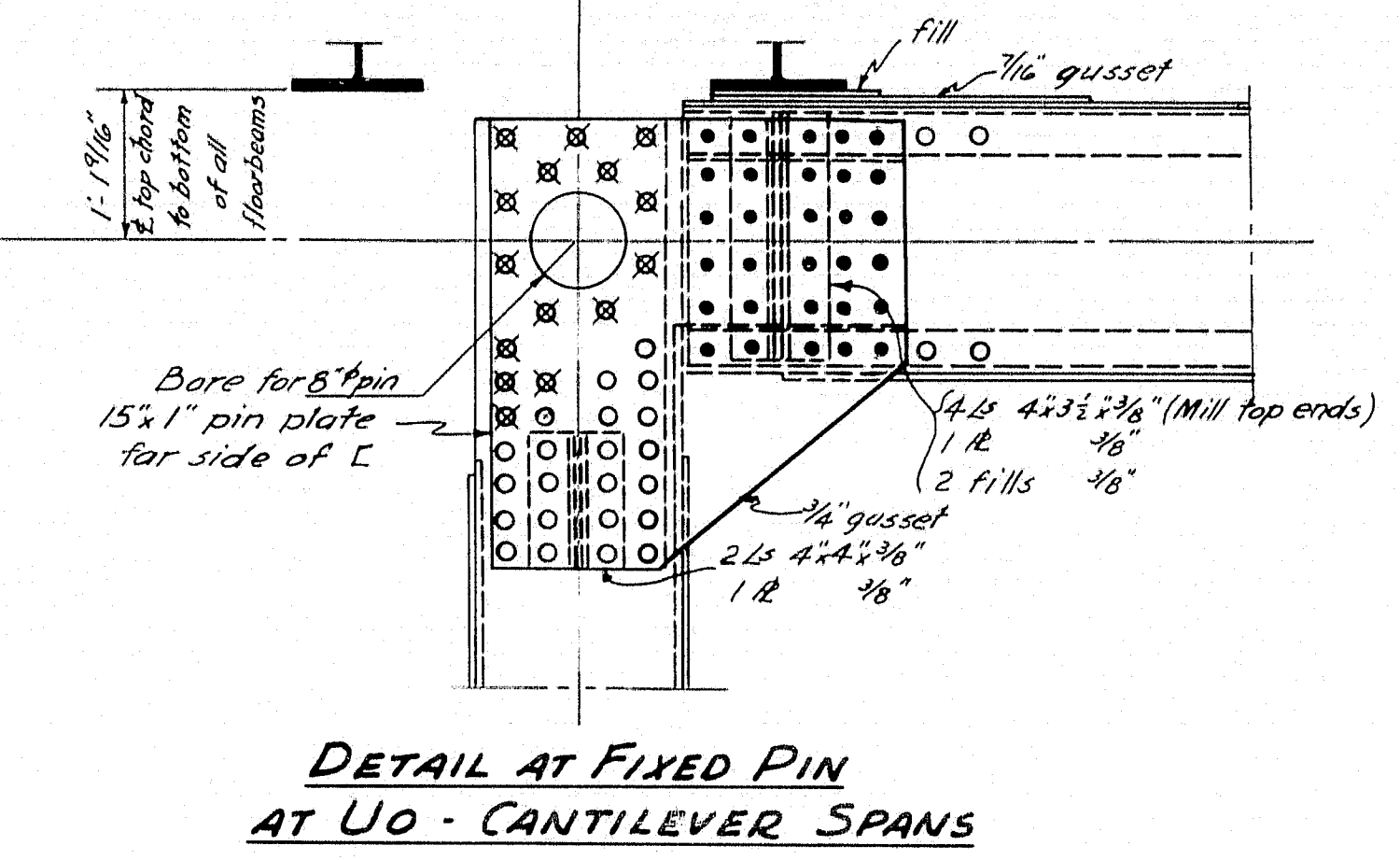
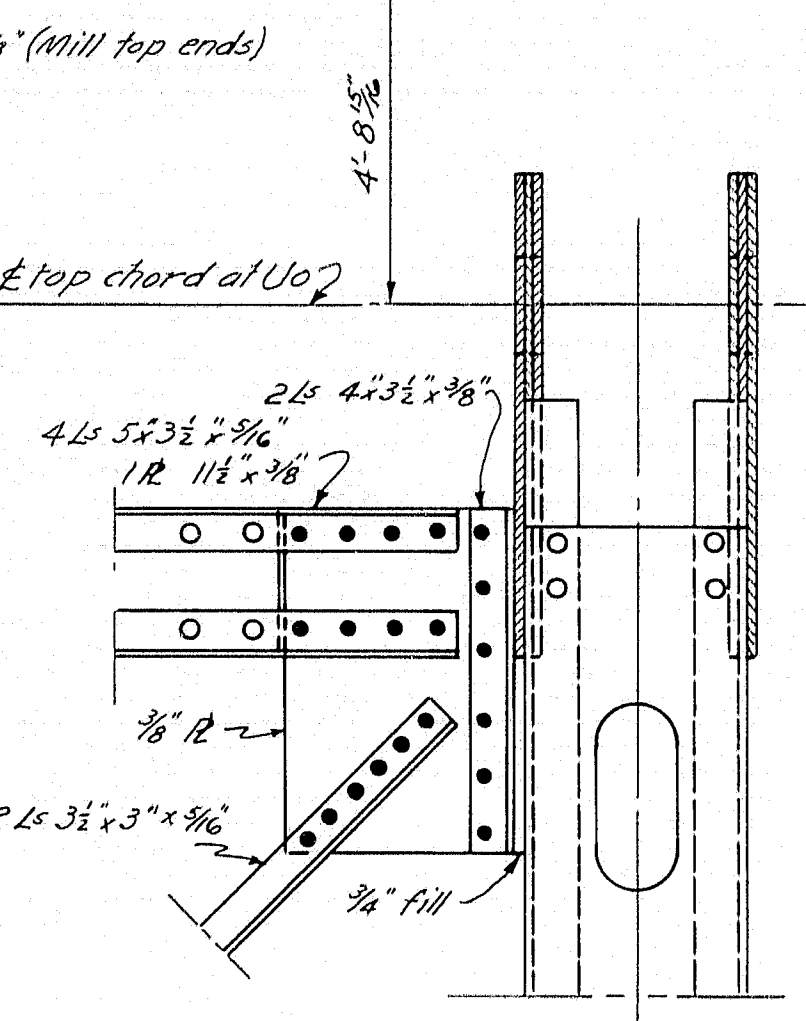
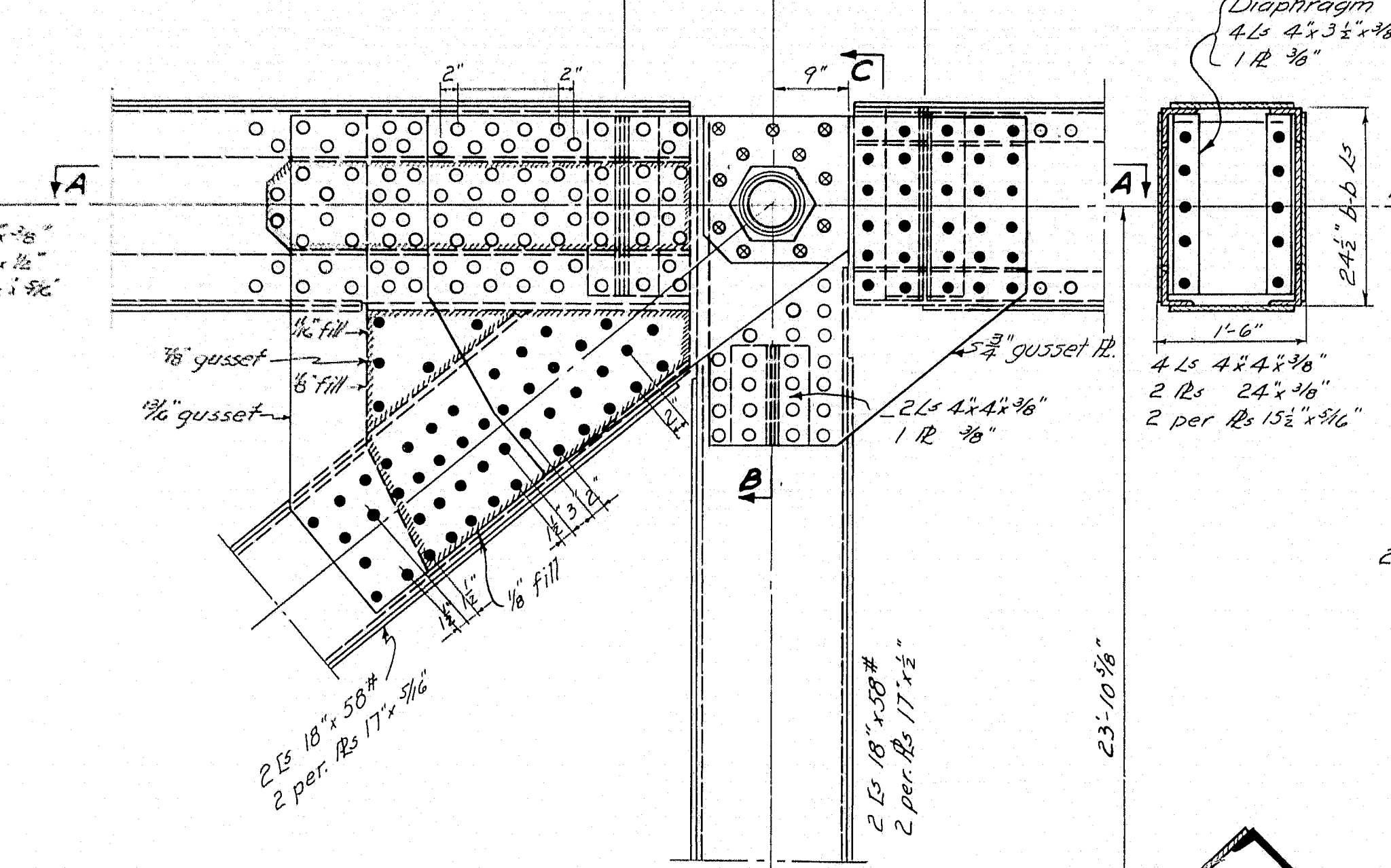
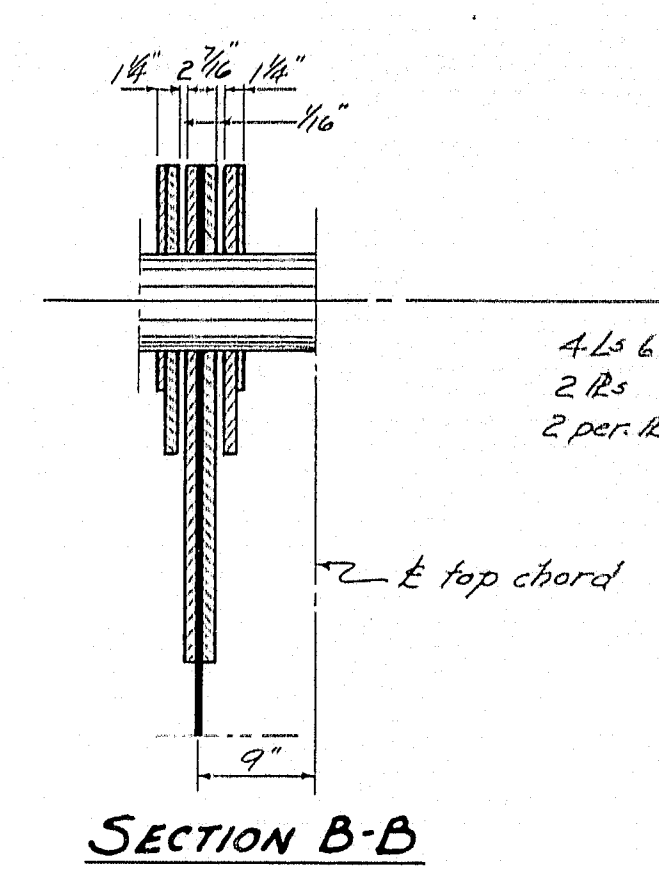
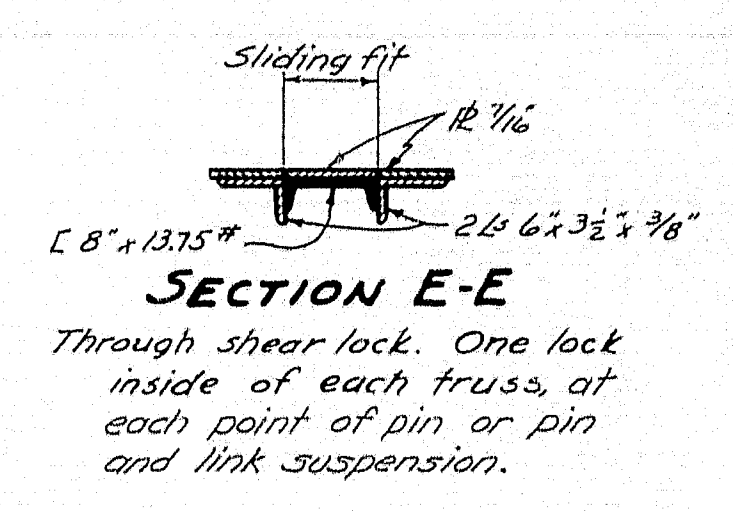
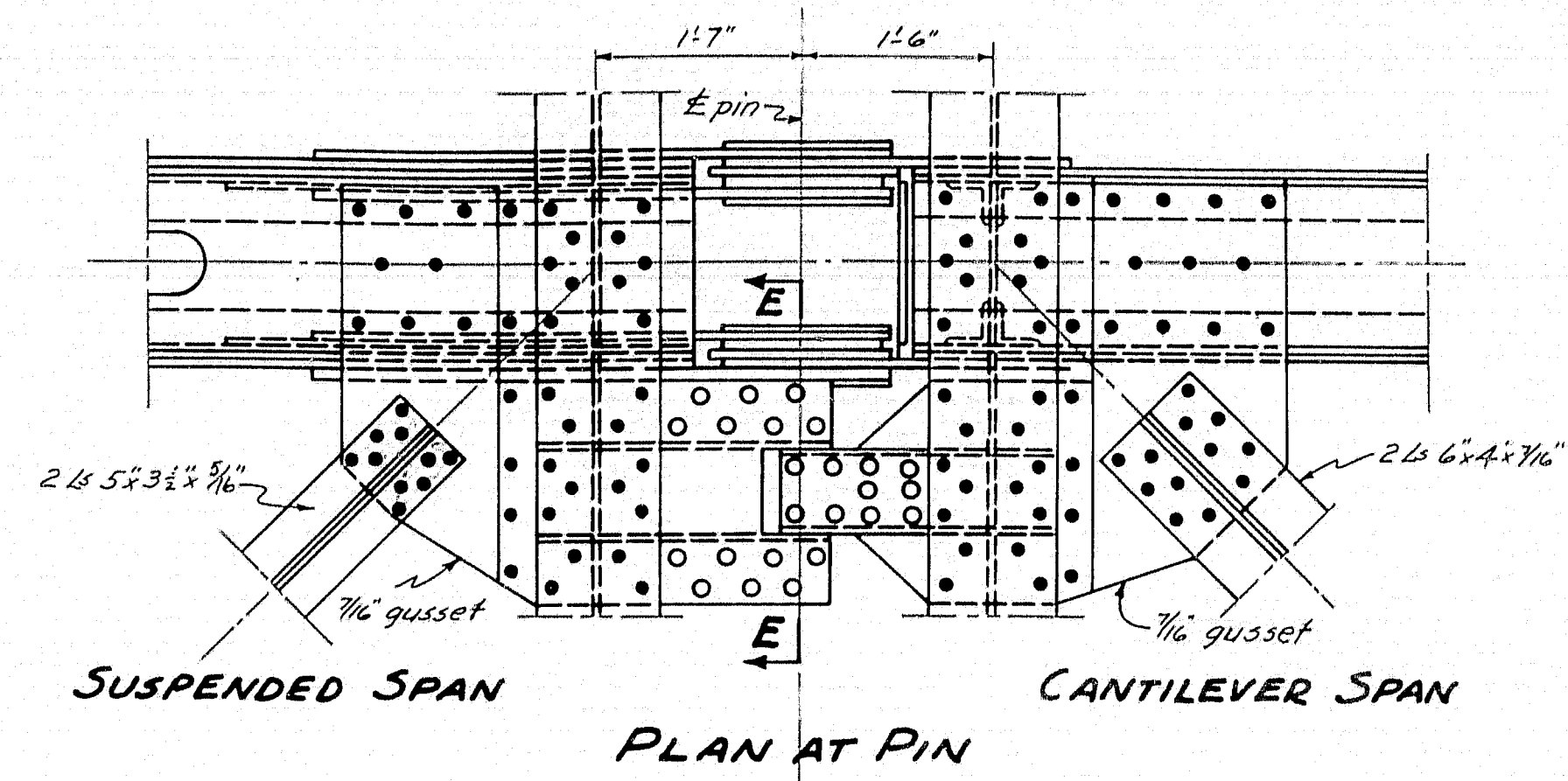
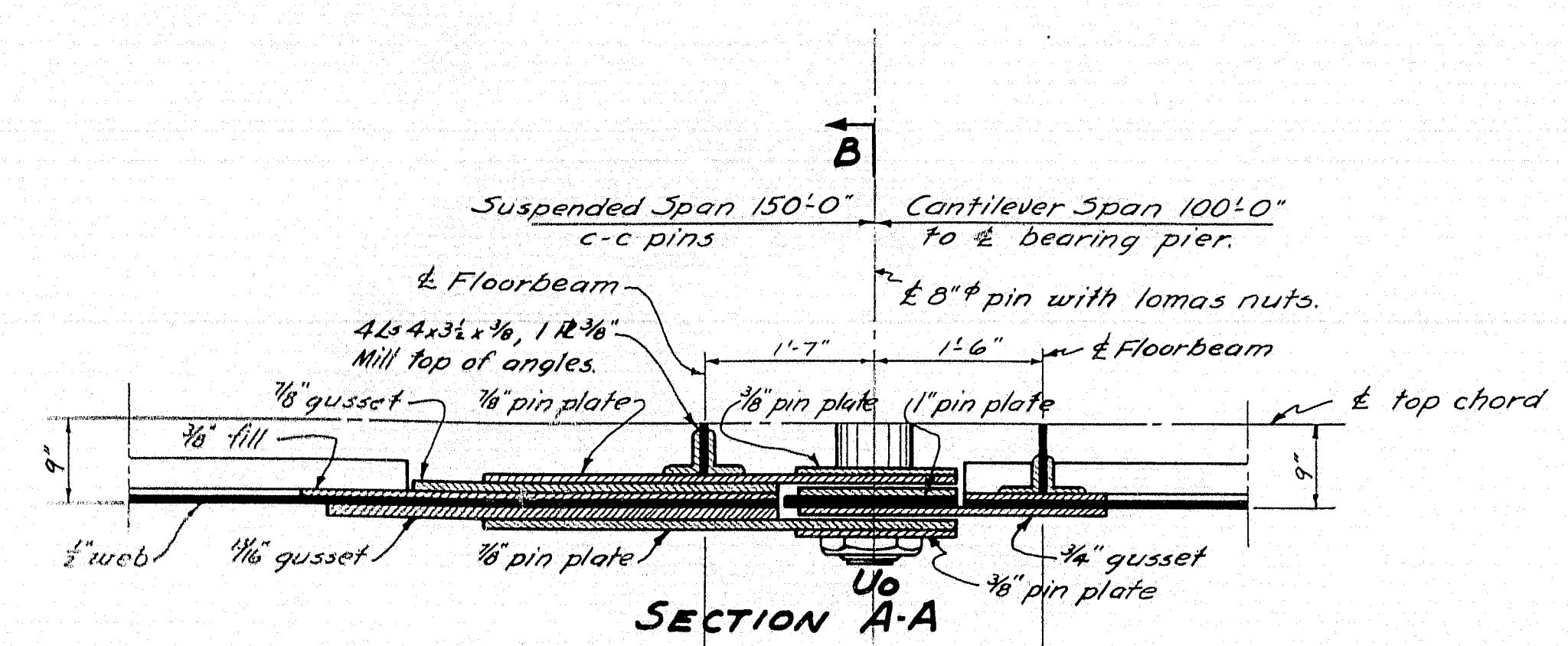
DESIGN - EVERETT TRACE-CLARK
DETAIL - " CHECK - C.L.P. BRIDGE - 5196

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
MAKE-UP OF MEMBERS
SHEET 29 OF 45 AUGUSTA, MAINE FEB. 1948



DESIGN - EVERETT	TRACE - BOYD	BRIDGE - 5196
DETAIL -	CHECK - C.L.P.	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
STRUCTURAL STEEL DETAILS AT U4L4		
SHEET 30 OF 45 AUGUSTA, MAINE FEB. 1948		



SUSPENDED SPANS

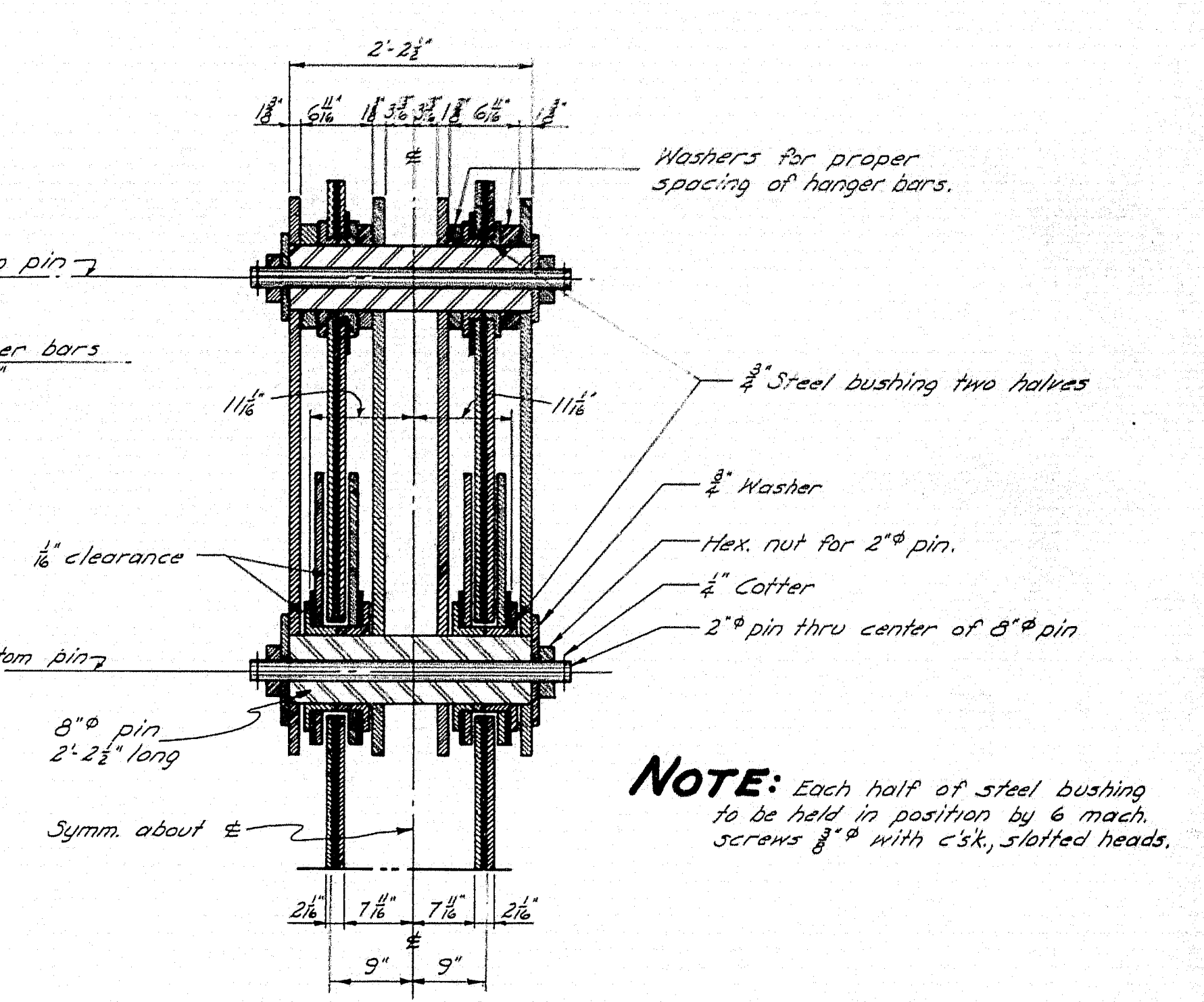
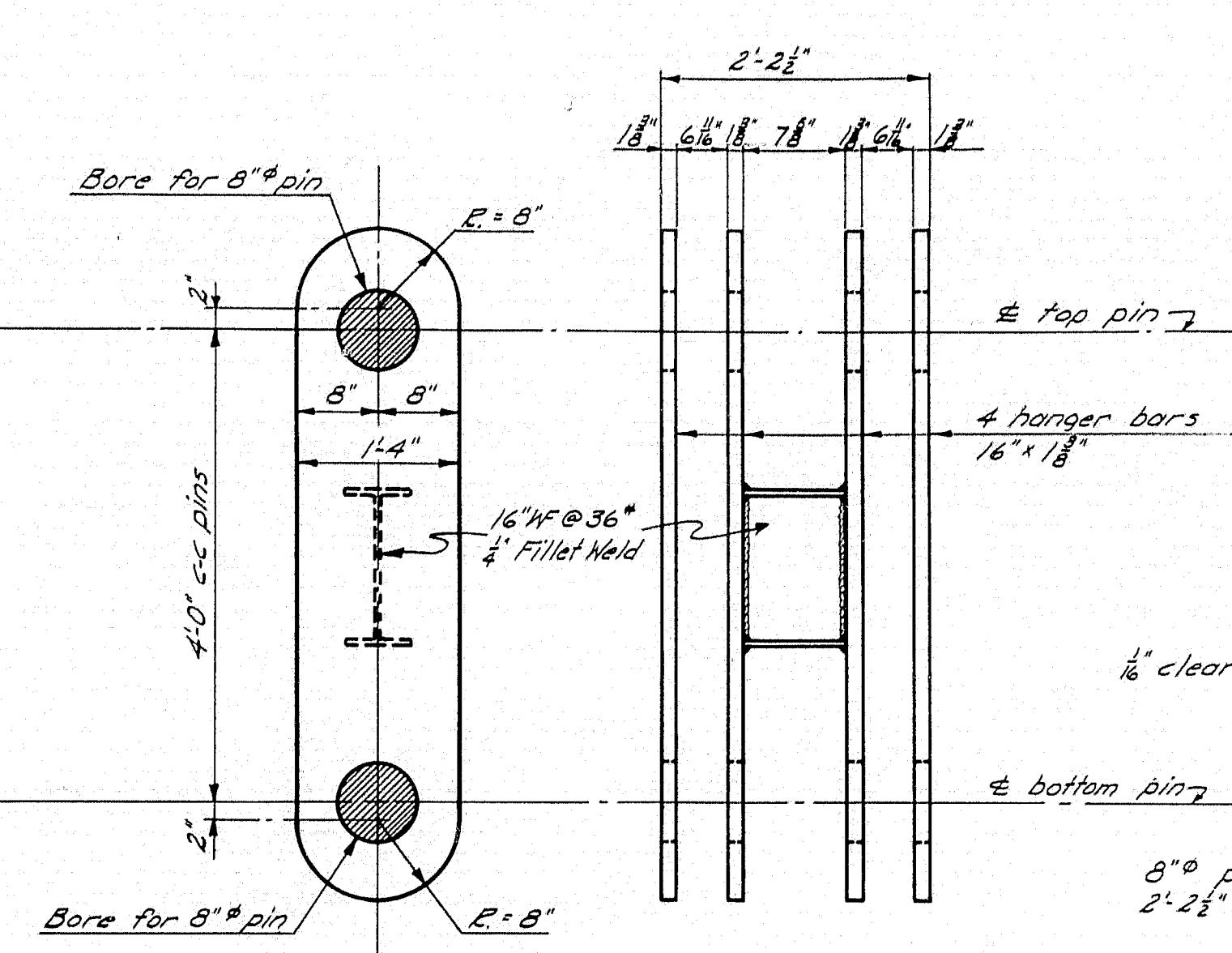
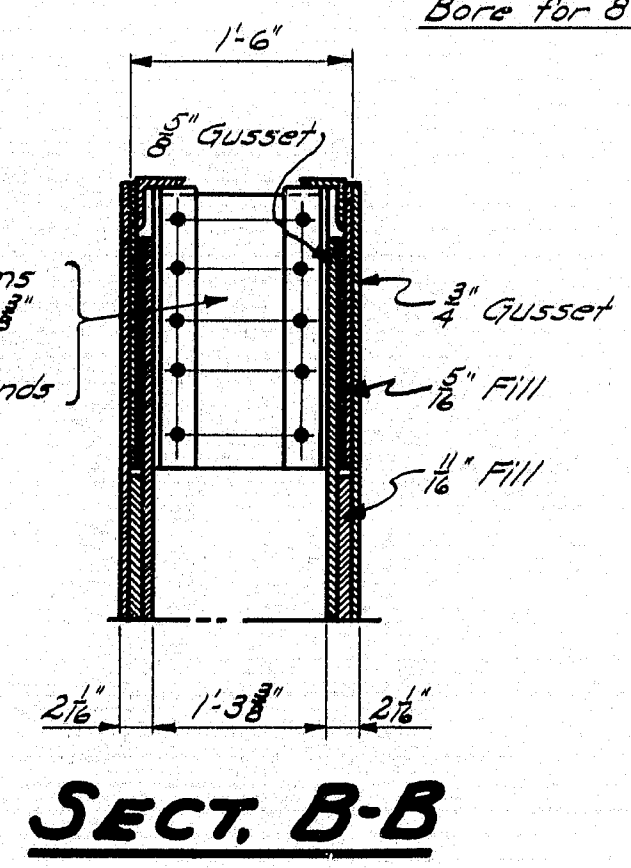
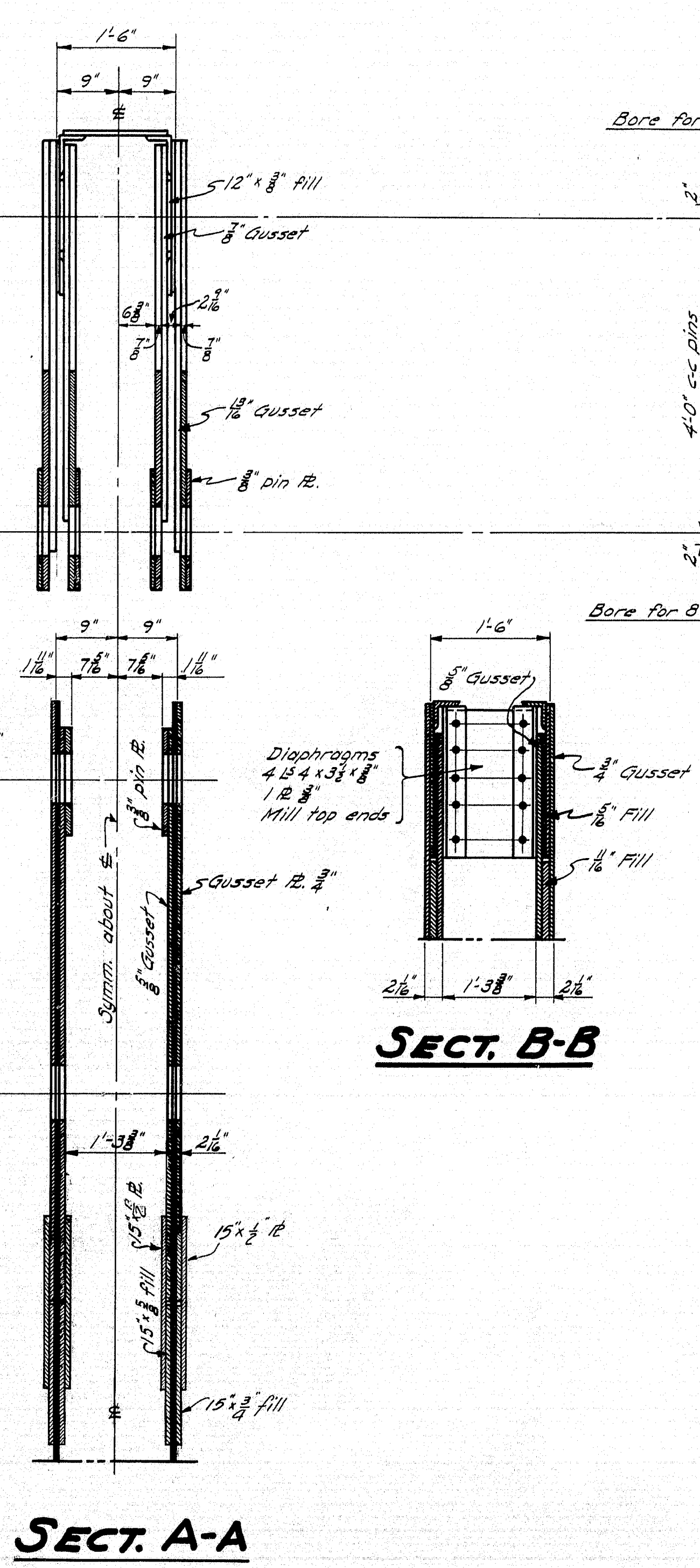
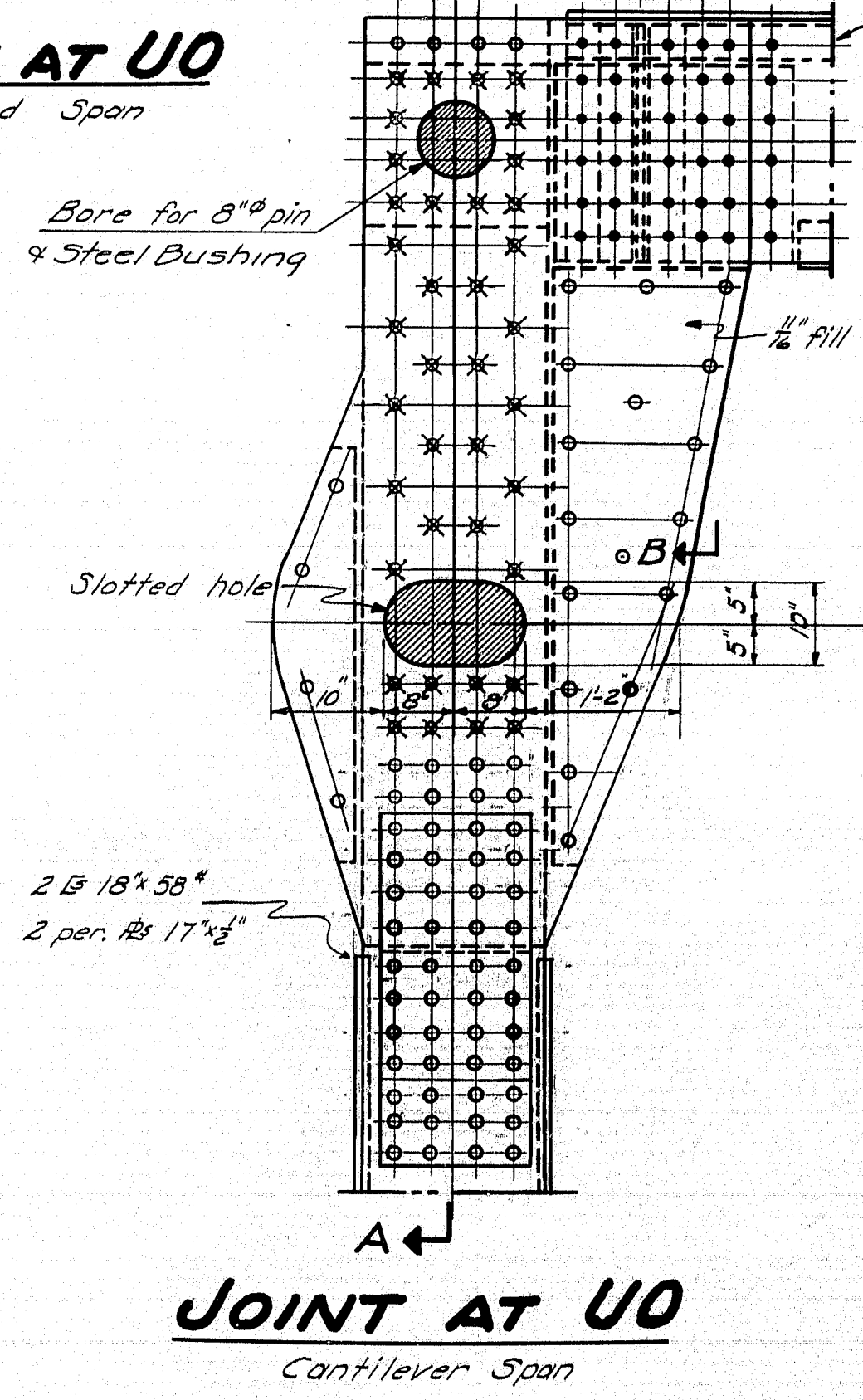
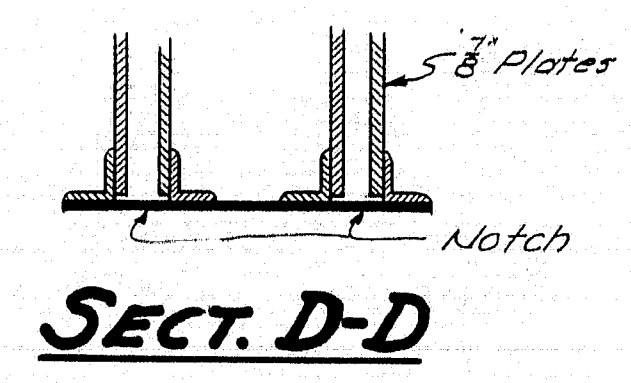
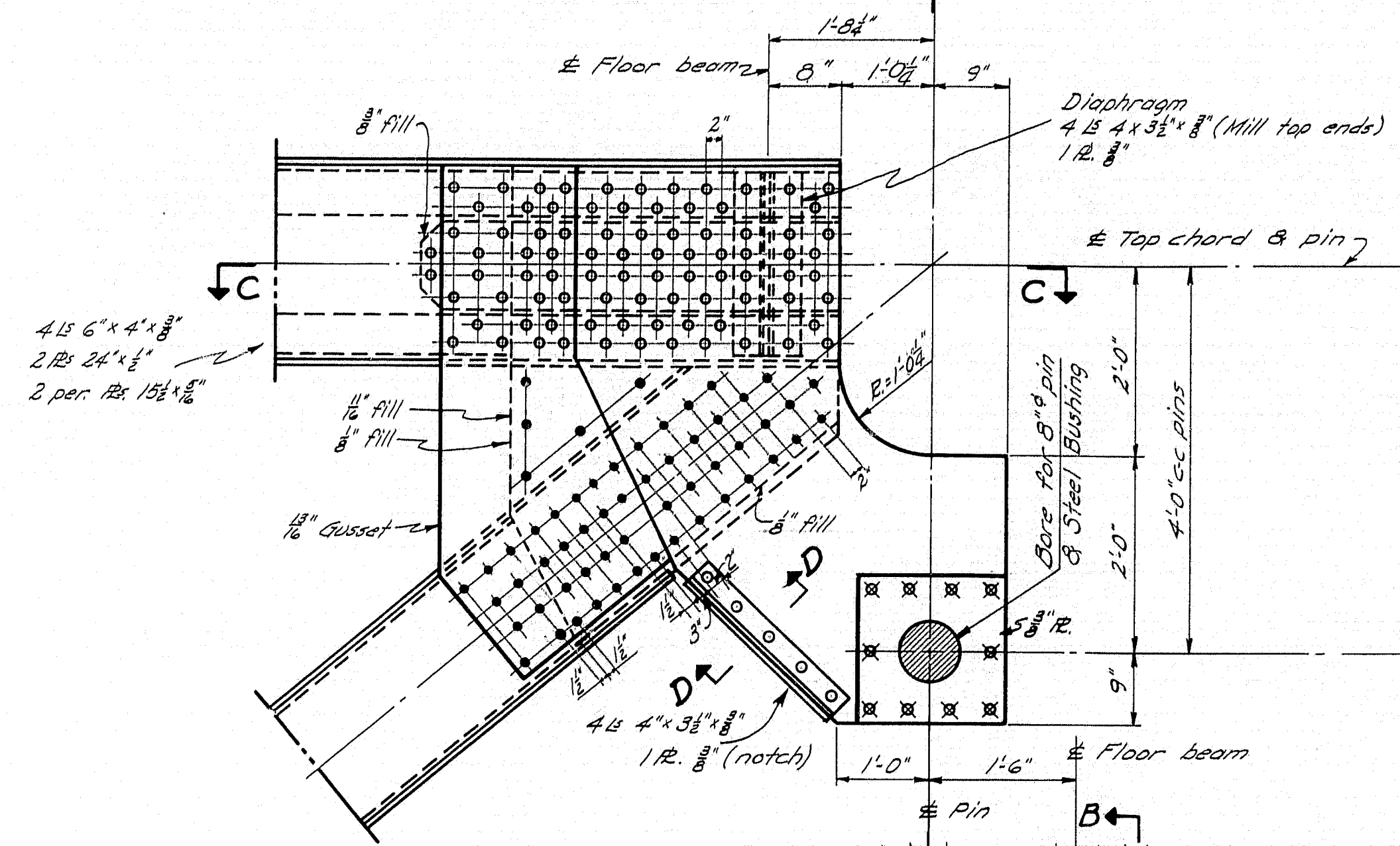
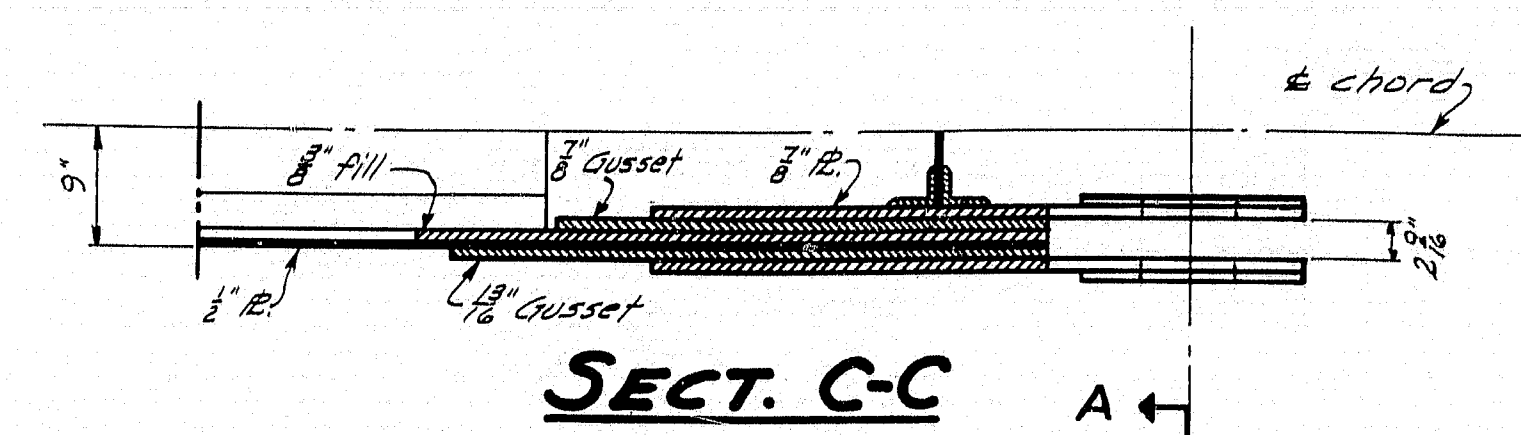
CANTILEVER SPANS 1-2-4

DETAIL AT FIXED PIN
Laterals not shown.

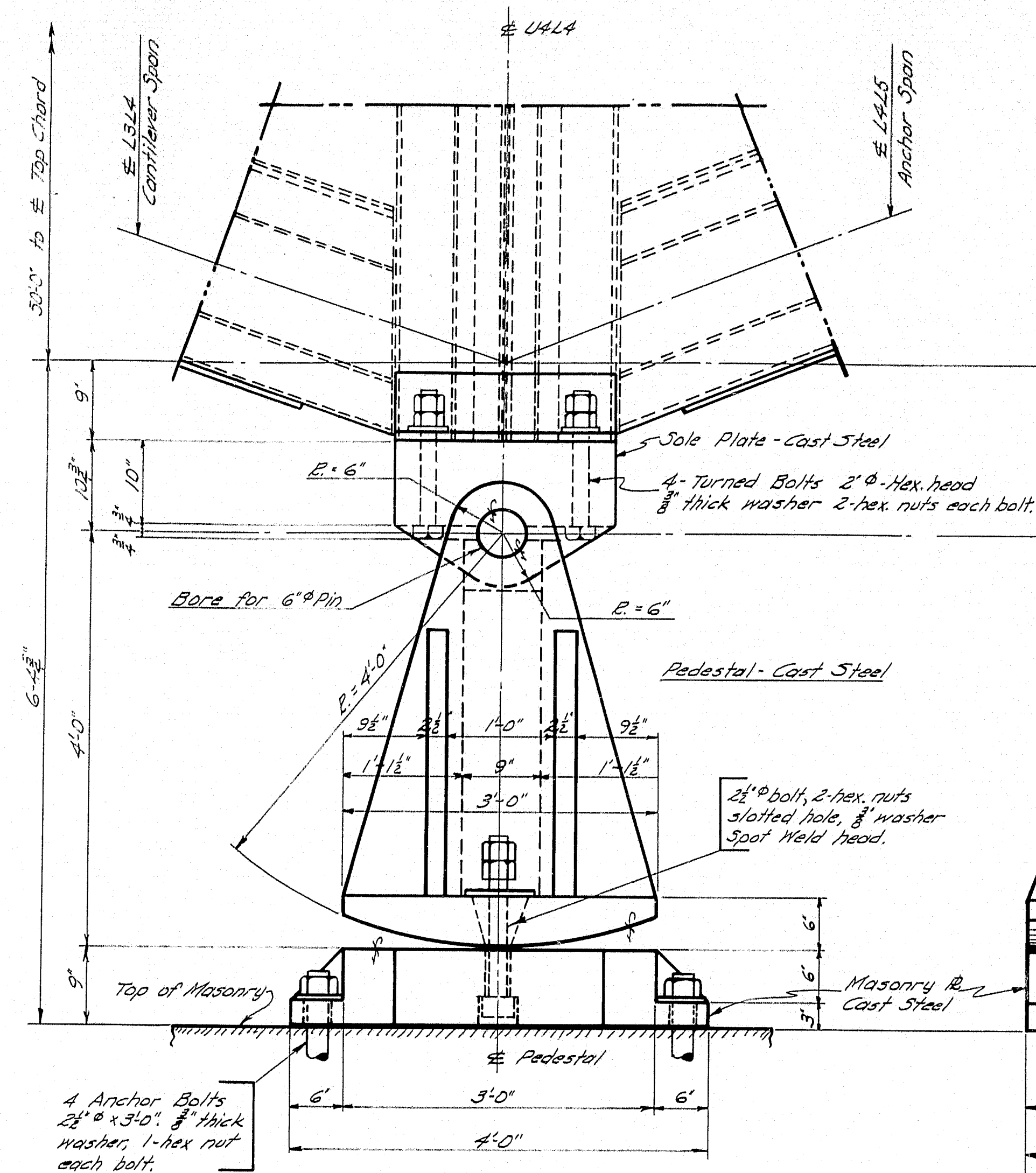
SECTION C-C
For UoLo showing laterals and connections.

SECTION D-D
Showing bottom laterals.

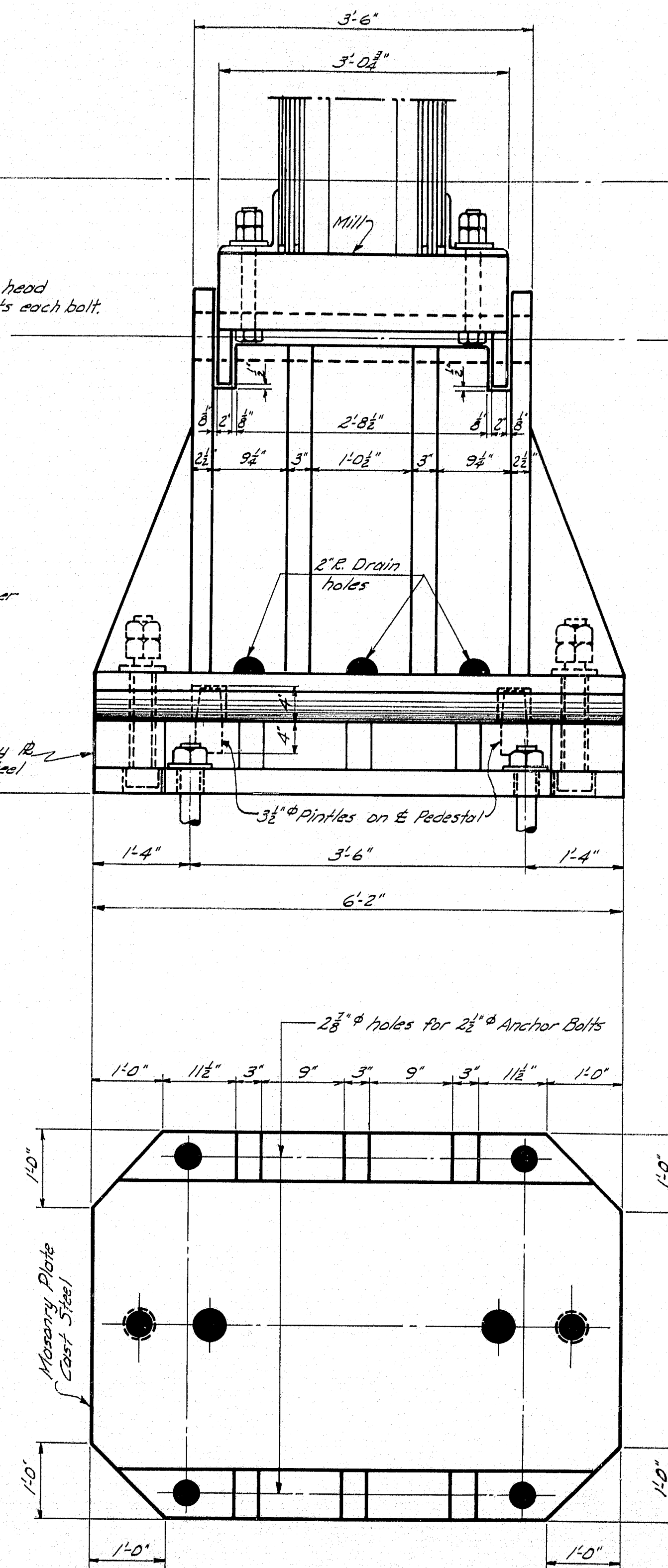
DESIGN - EVERETT
CHECK - C.L.P.
BRIDGE - 5196
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY
DETAIL AT FIXED PIN - CANT. & SUS. SPANS
SHEET 31 OF 45 AUGUSTA, MAINE FEB. 1948



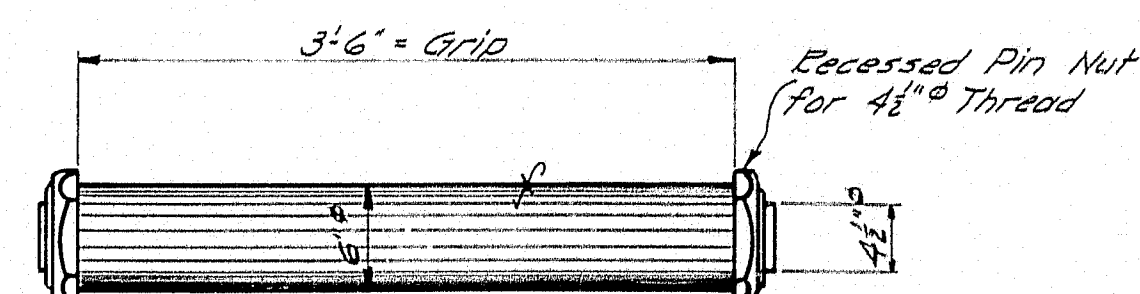
NOTE: Each half of steel bushing to be held in position by 6 mach. screws $\frac{3}{8}$ " ϕ with c/sk, slotted heads.



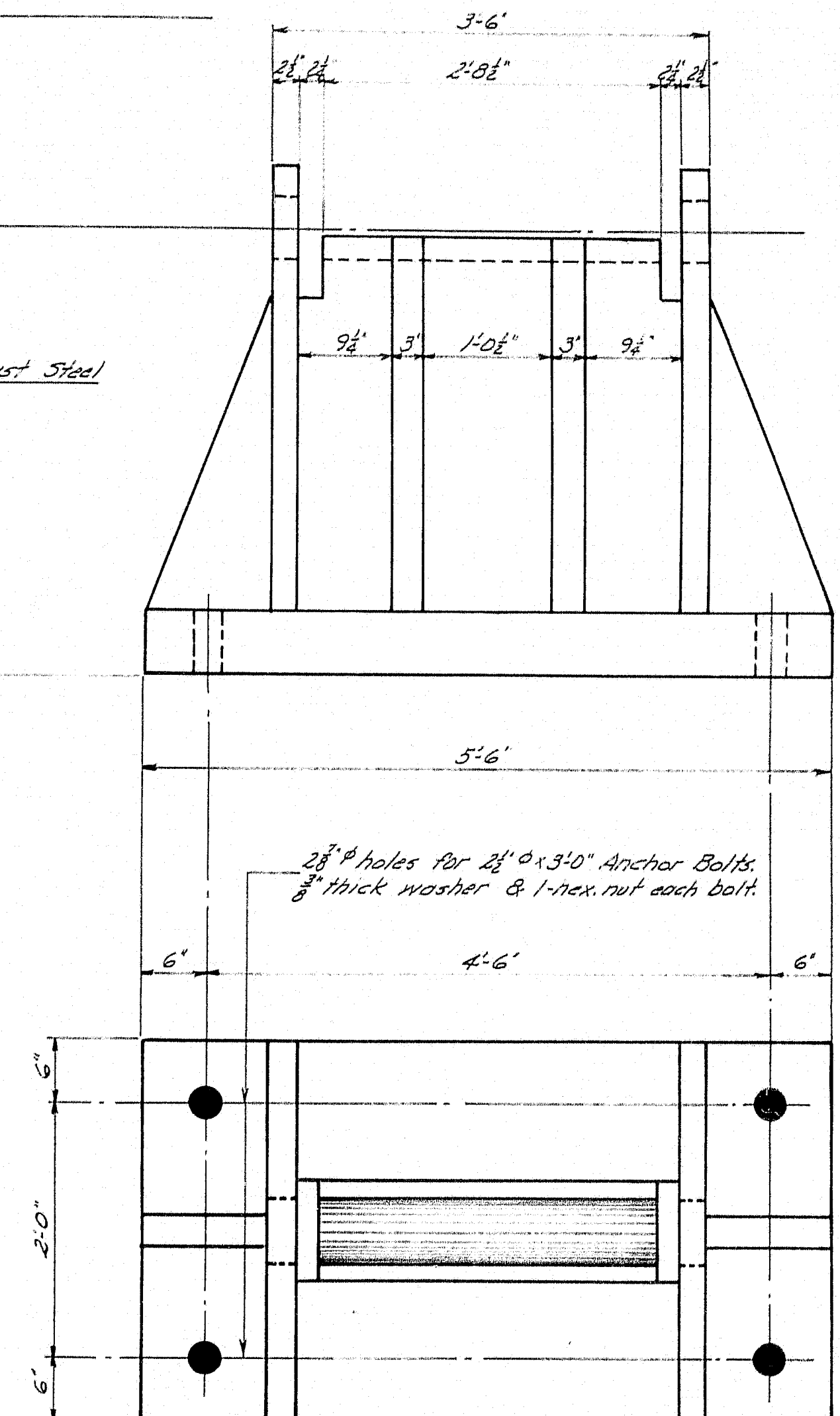
EXPANSION BEARING
4- Required (Piers #2 & #3)



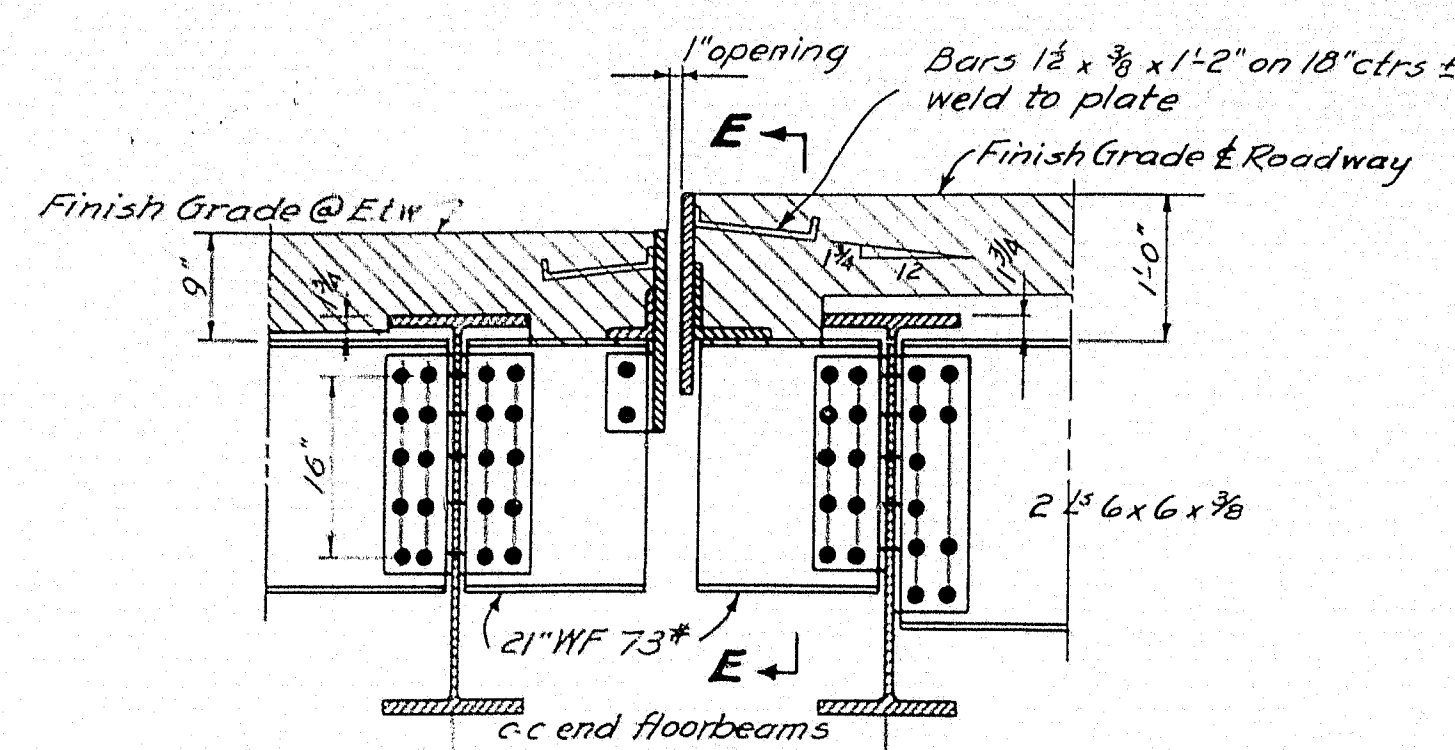
FIXED BEARING
4- Required (Piers #3 & #4)



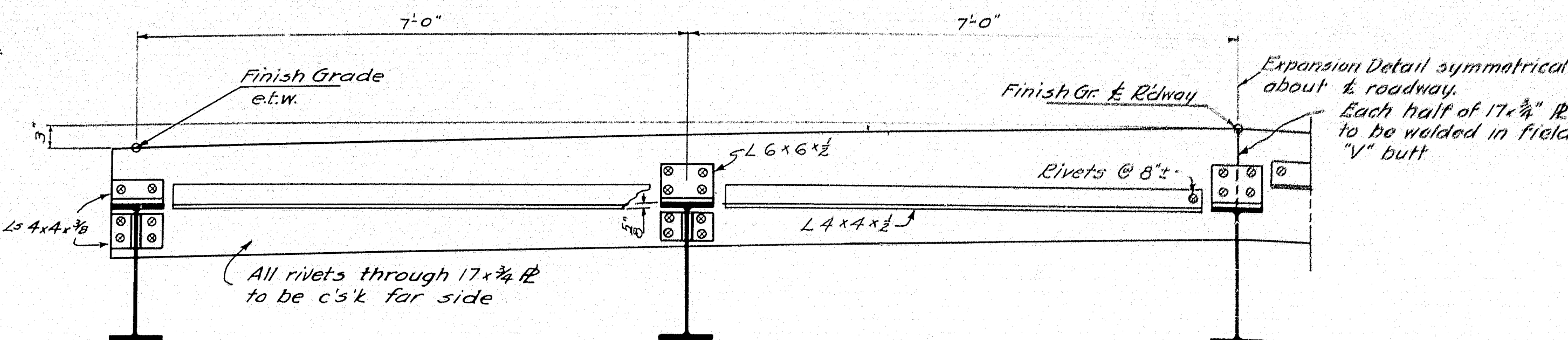
PIN
8- Required (Piers #2, 3, 4, & 5)



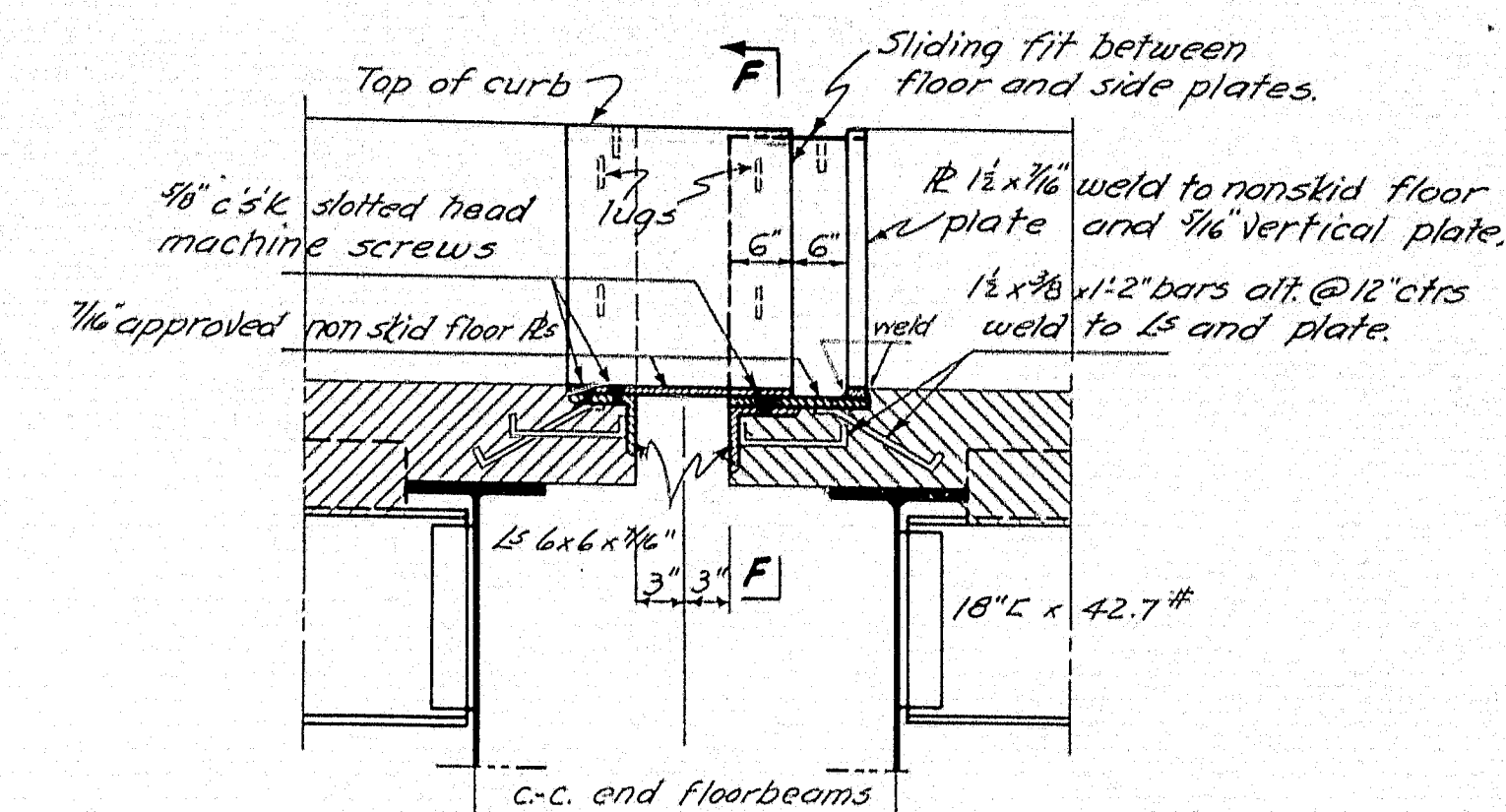
DESIGN - EVERETT	TRACE - CLARK	BRIDGE - 5196
DETAIL - WHITE	CHECK - CDB	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
EXP. & FIX. BEARINGS-TRUSS SPANS-PIERS 2,3,4,5 SHEET 34 OF 45 AUGUSTA, MAINE FEB. 1948		



ROADWAY EXPANSION DETAIL
at fixed pins between (Contilever span #1, suspended span #2, span #3)

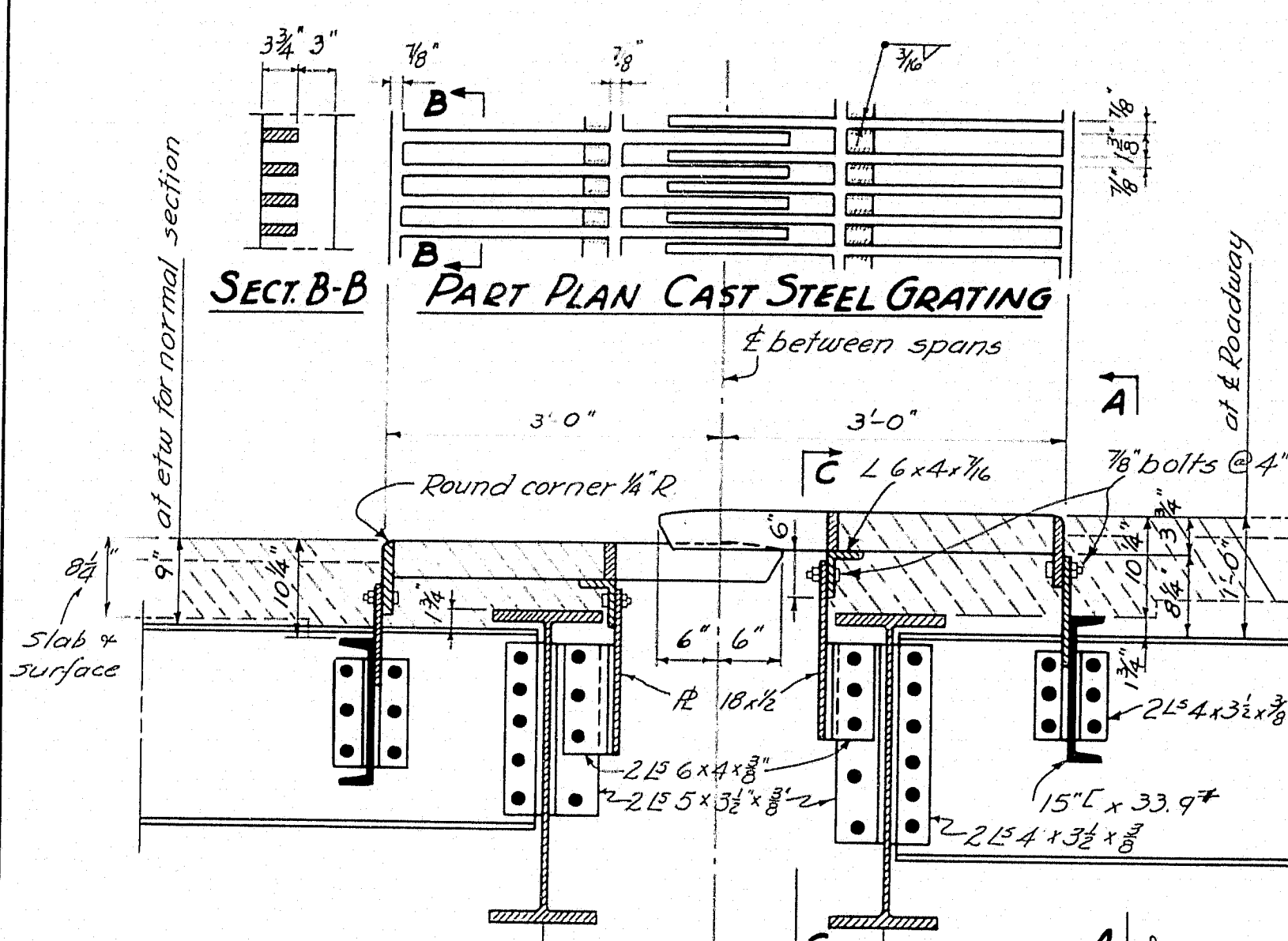


SECTION E-E



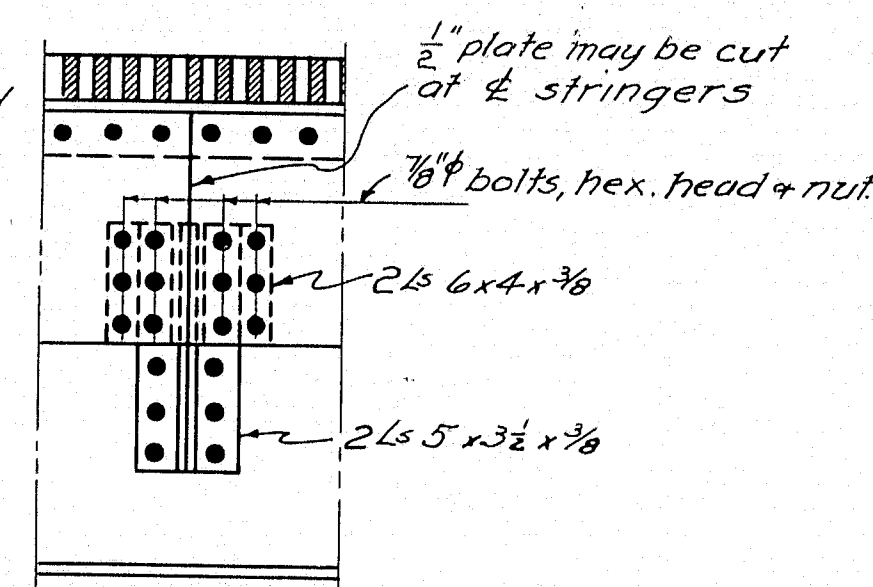
SIDEWALK EXPANSION DETAIL

Detail at link and between spans at pier #1 and pier #6. Sidewalk expansion plates for all spans to be fabricated and delivered by the Structural Steel Contractor, and erected by the Superstructure Floor Contractor.

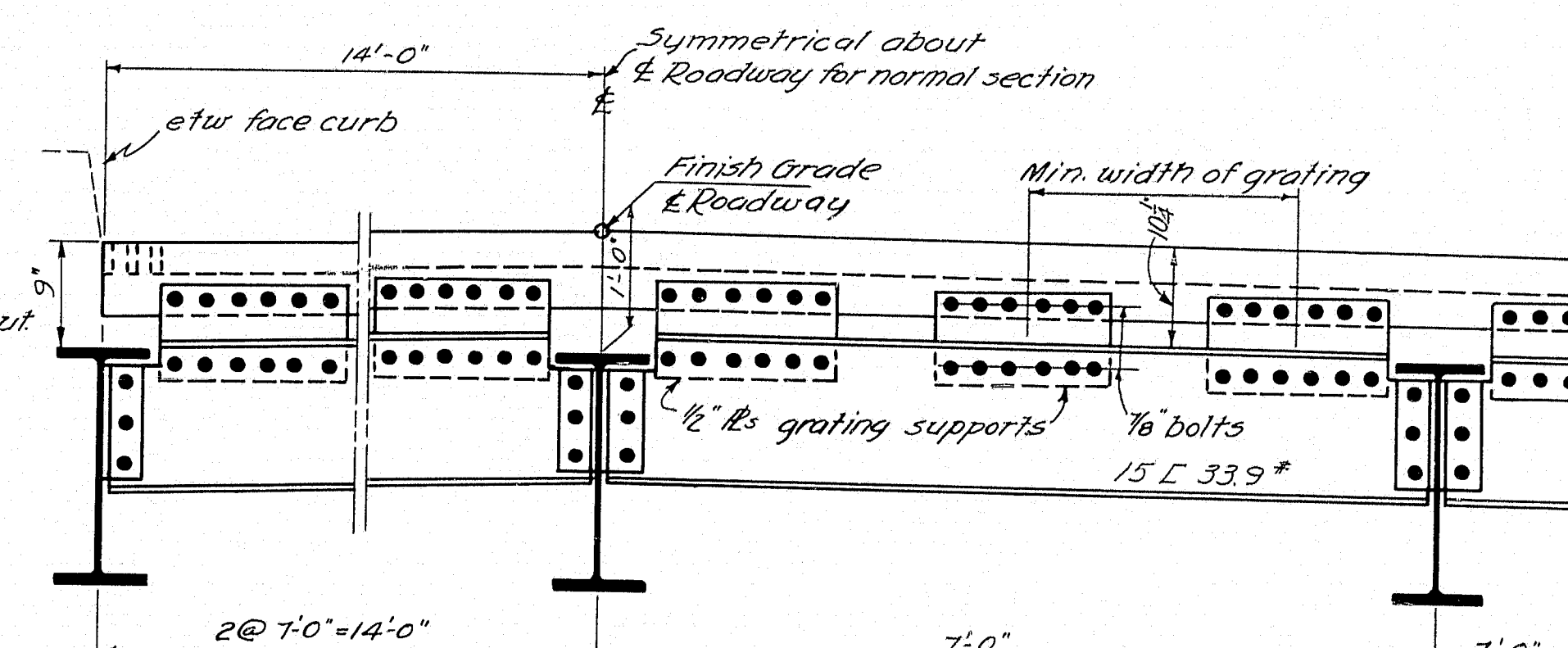


PART PLAN CAST STEEL GRATING

Note: Steel grating may be cast in sections. Min. widths to be c.c. of grating supports. Ends of sections to engage at least three bolts in grating supports. Sections to be welded together after field erection. Make one rough machine cut over tops of all castings.

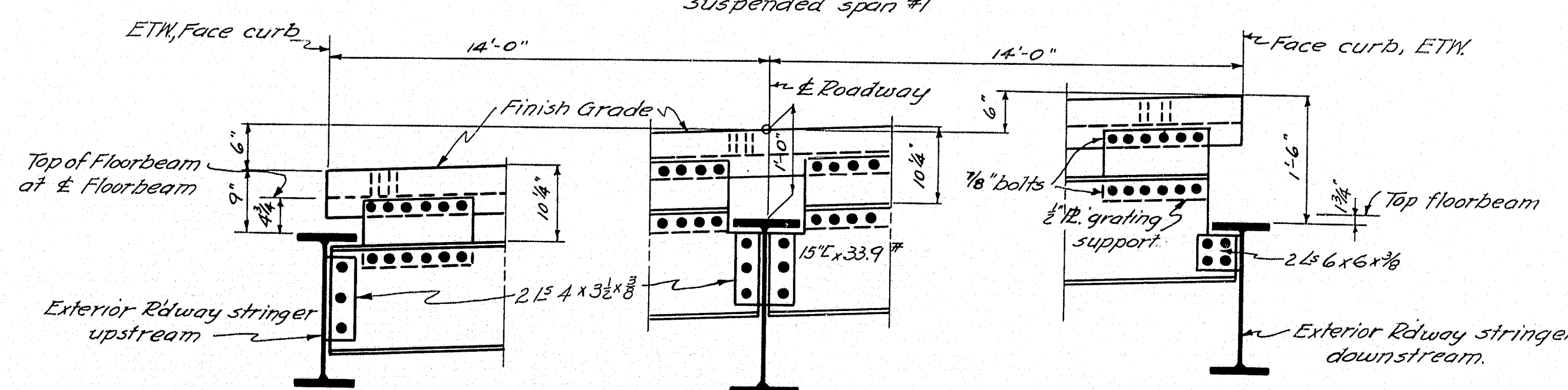


VIEW C-C



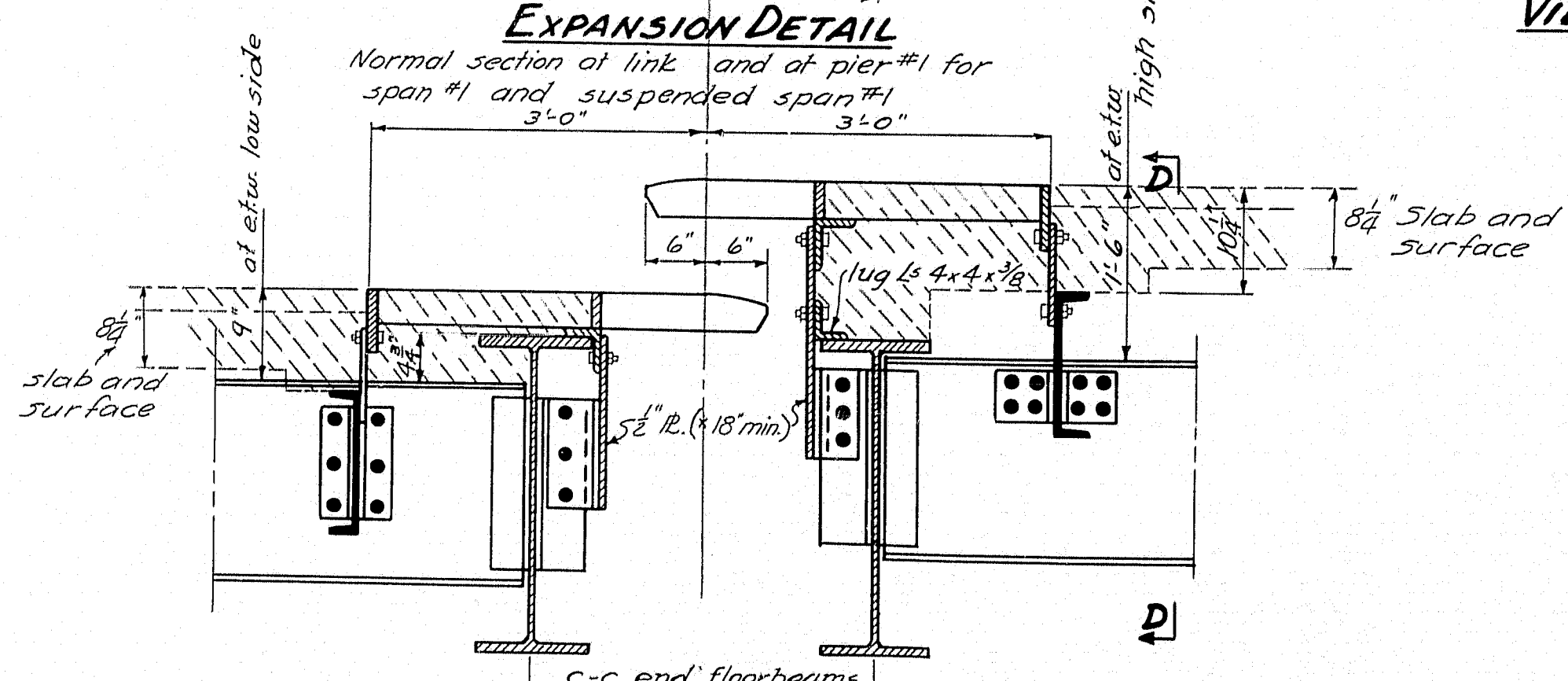
PART SECTION A-A

Normal section at link and of span #1 and suspended span #1



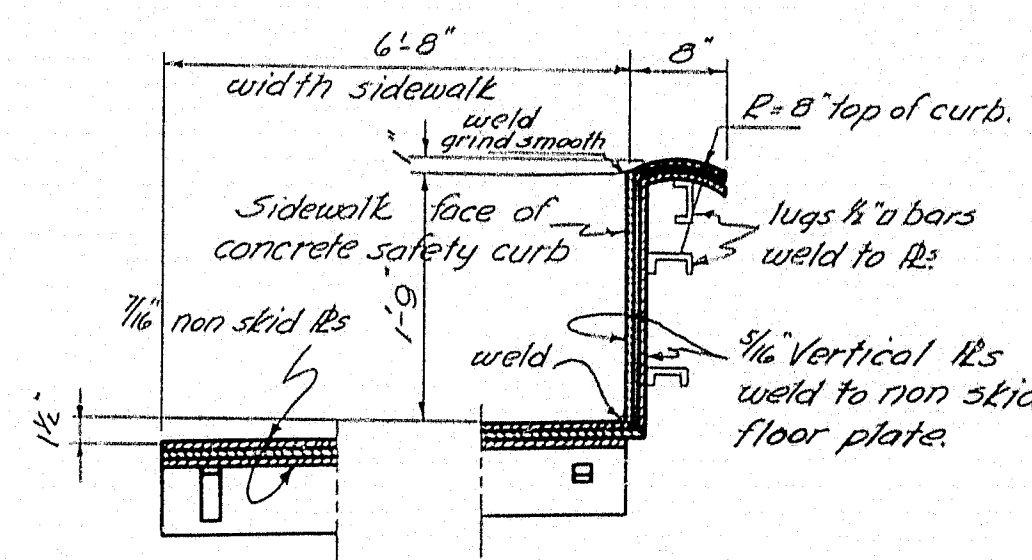
PART SECTION D-D

Bank section at pier end of suspended span #3 and plate girder span #7.



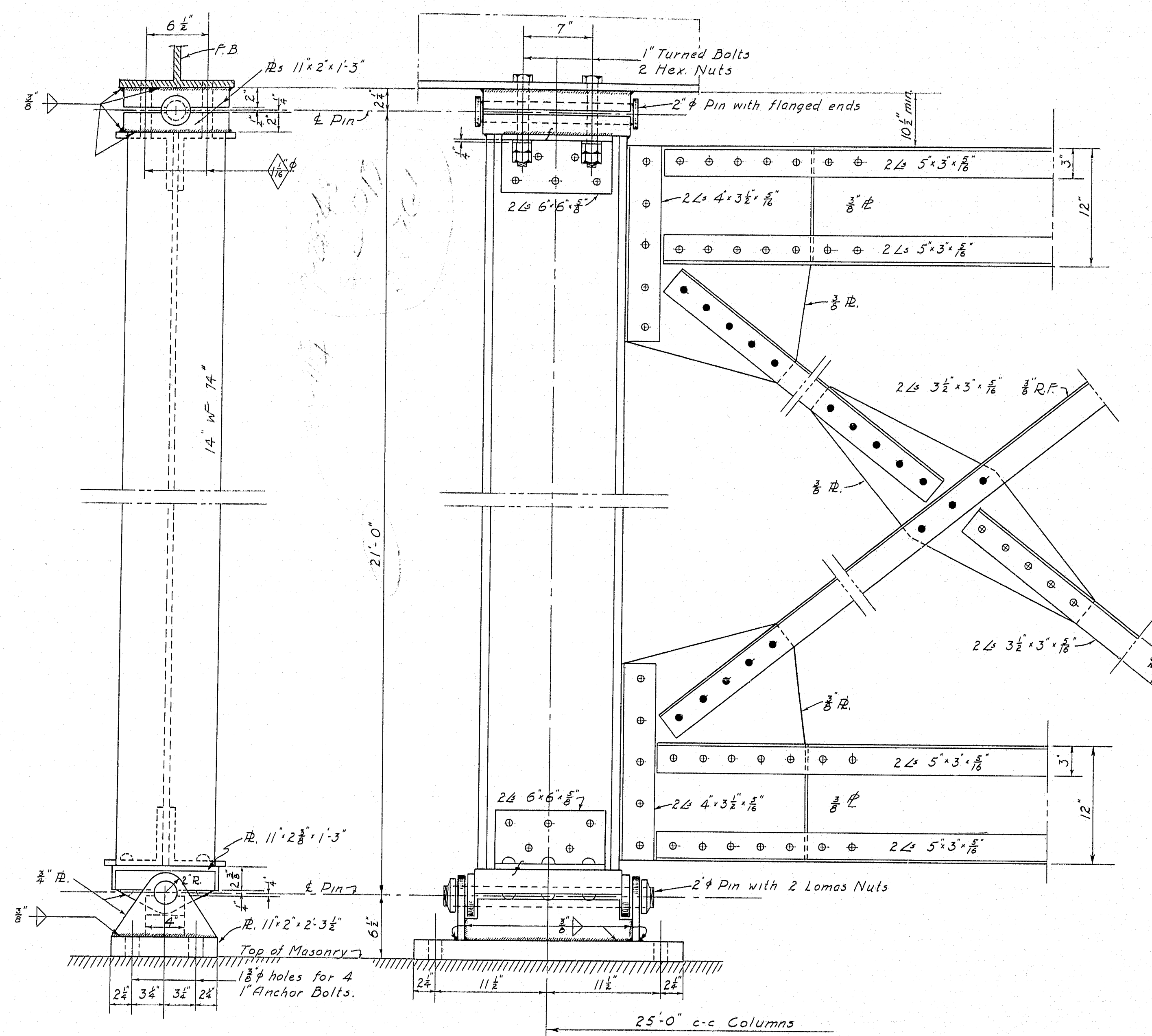
EXPANSION DETAIL

At pier #6 for suspended span #3 and plate girder span #7.

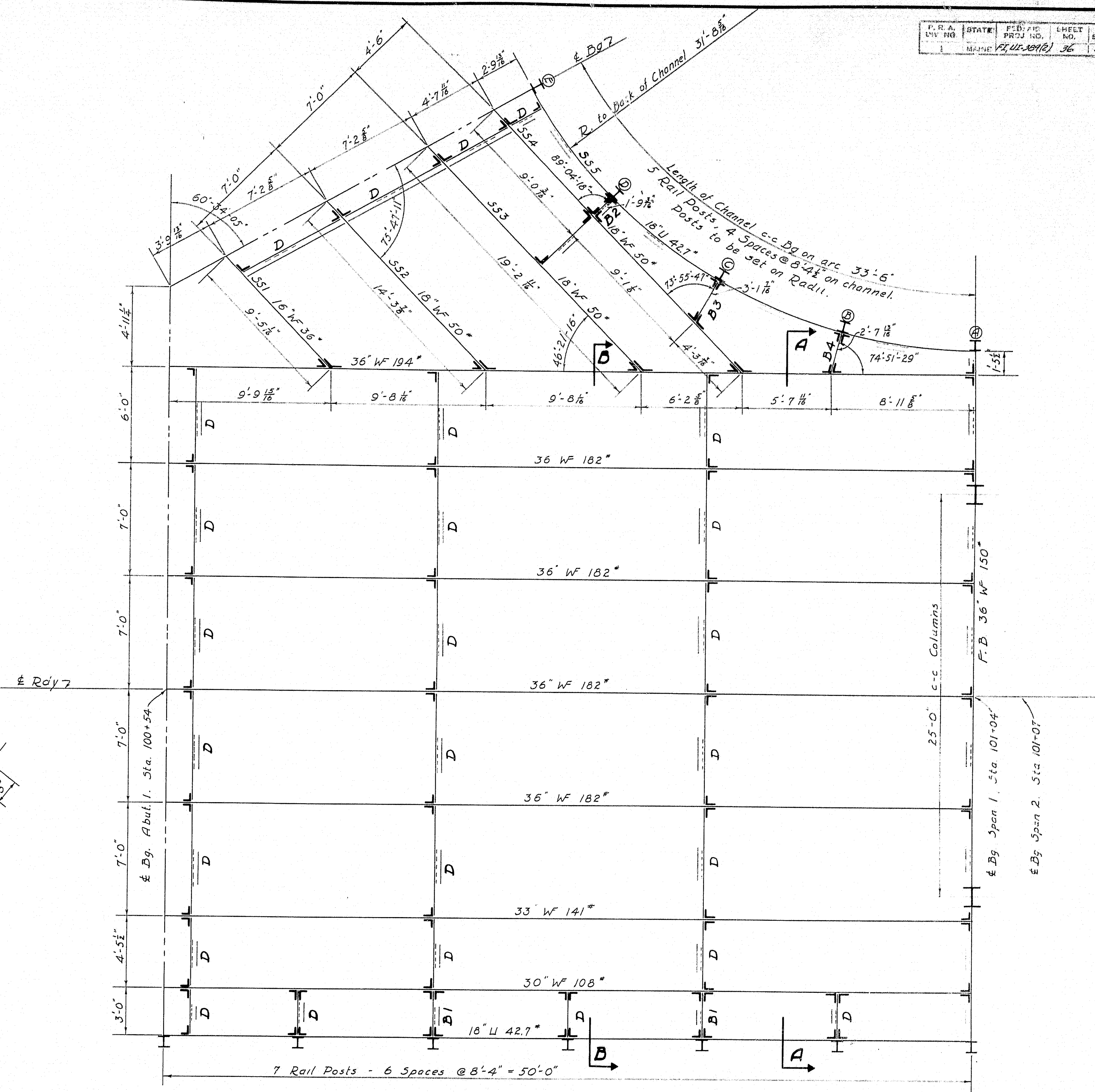


PART SECTION F-F

Note: For sidewalk expansion details between cantilever span #1 + suspended span #1, see details for sidewalk expansion dam sheet #40.



**COLUMN DETAILS
AT PIER 1 FOR SPAN 1**



LAYOUT SPAN 1

B indicates Bracket
D indicates Diaphragm

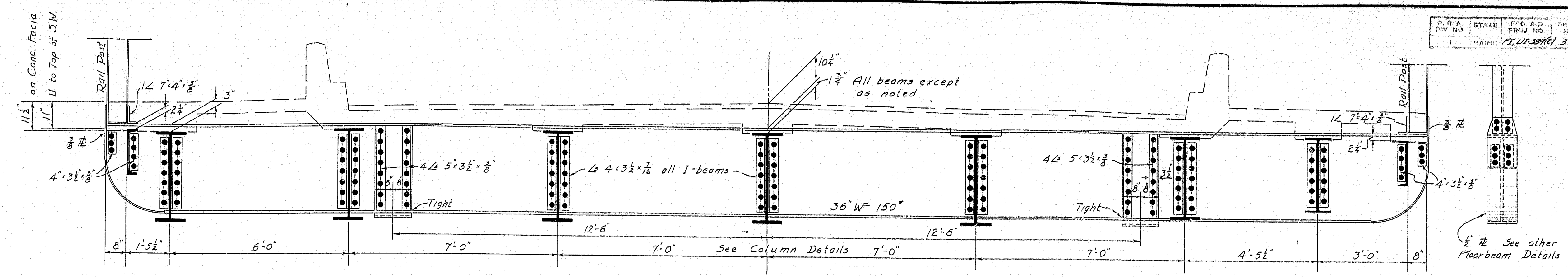
Work this Sheet with Sheet #37

DESIGN - ALLEN	TRACE - FORTIER	BRIDGE - 5196
DETAIL - "	CHECK - FAMILIA	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

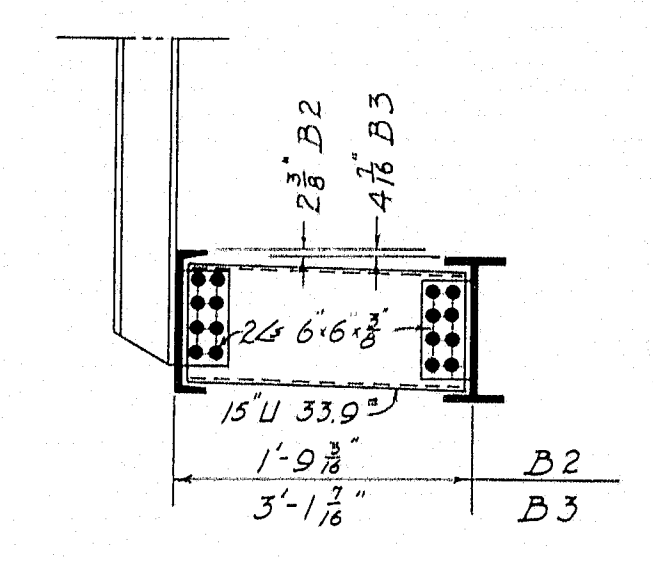
AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY

STEEL DETAILS - SPAN NO. 1
SHEET 36 OF 45 AUGUSTA, MAINE FEB. 1946

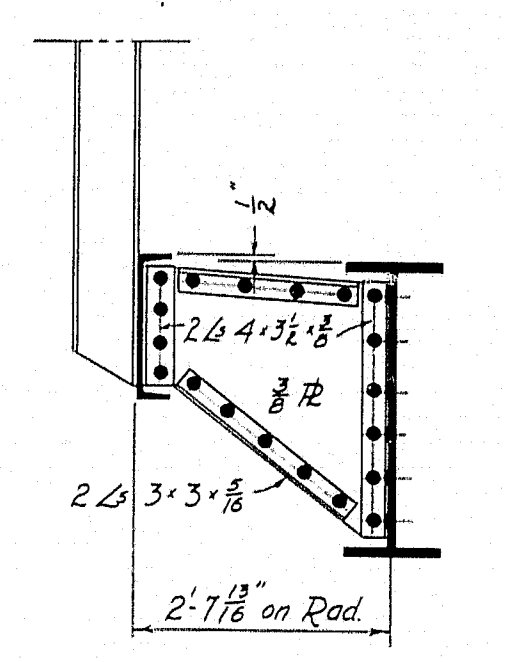


FLOORBEAM

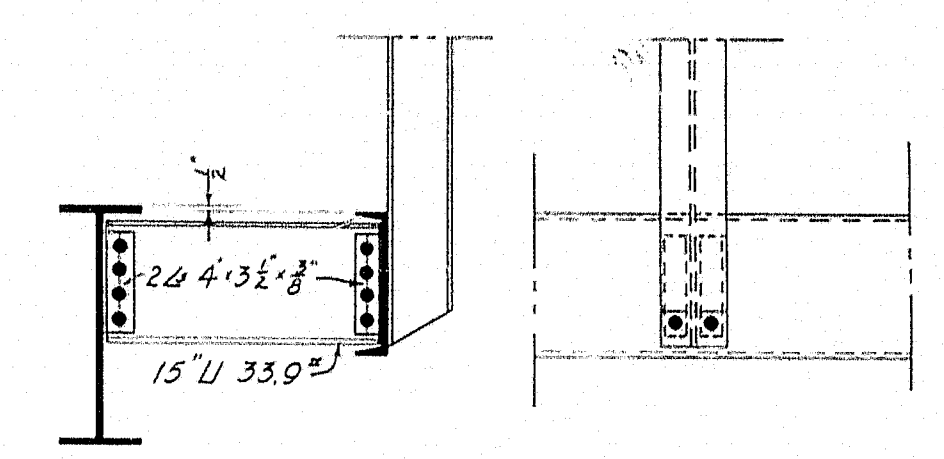
See Detail on Sheet 38 for Diaphragms used with Expansion Detail



BRACKETS B2-B3

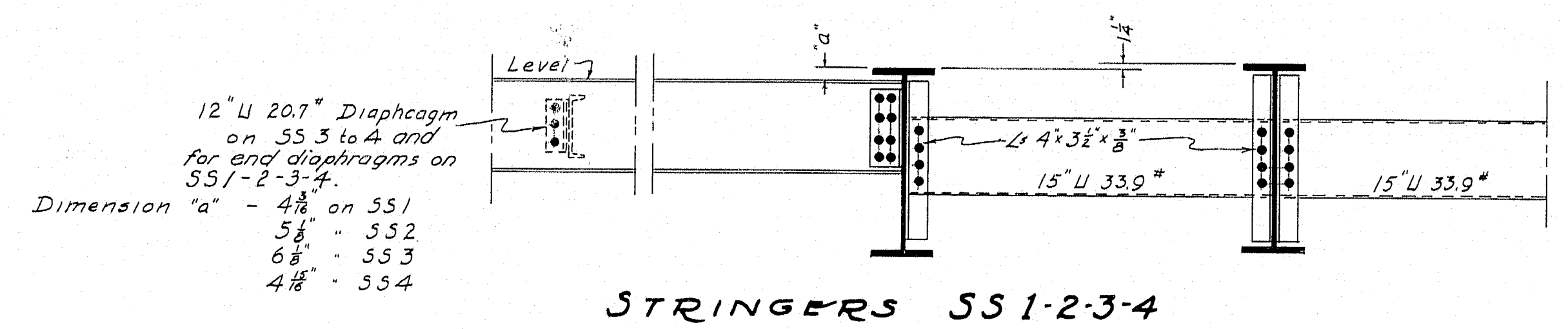


BRACKET B4

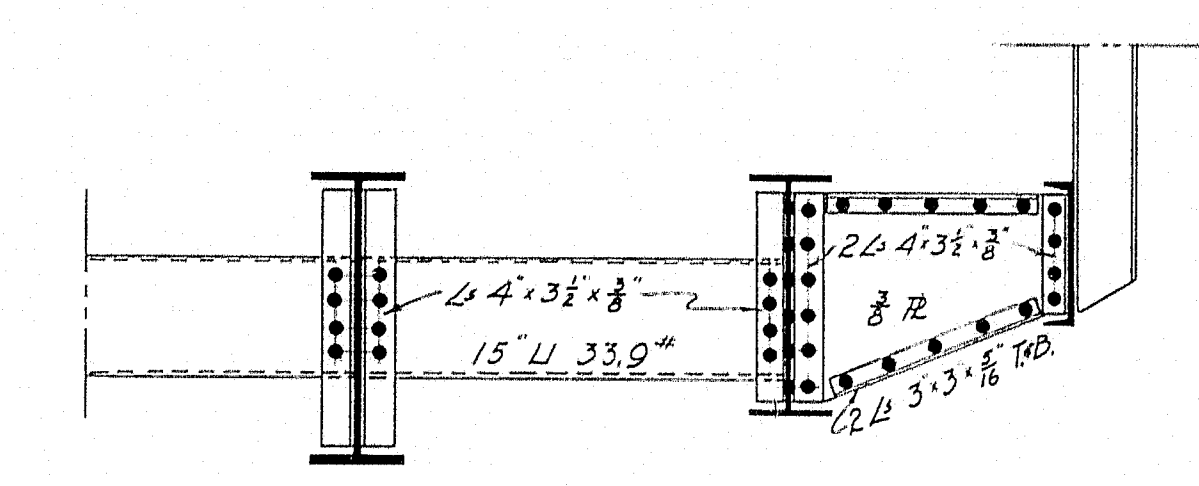


SW DIAPHRAGM

PART SECTION A-A

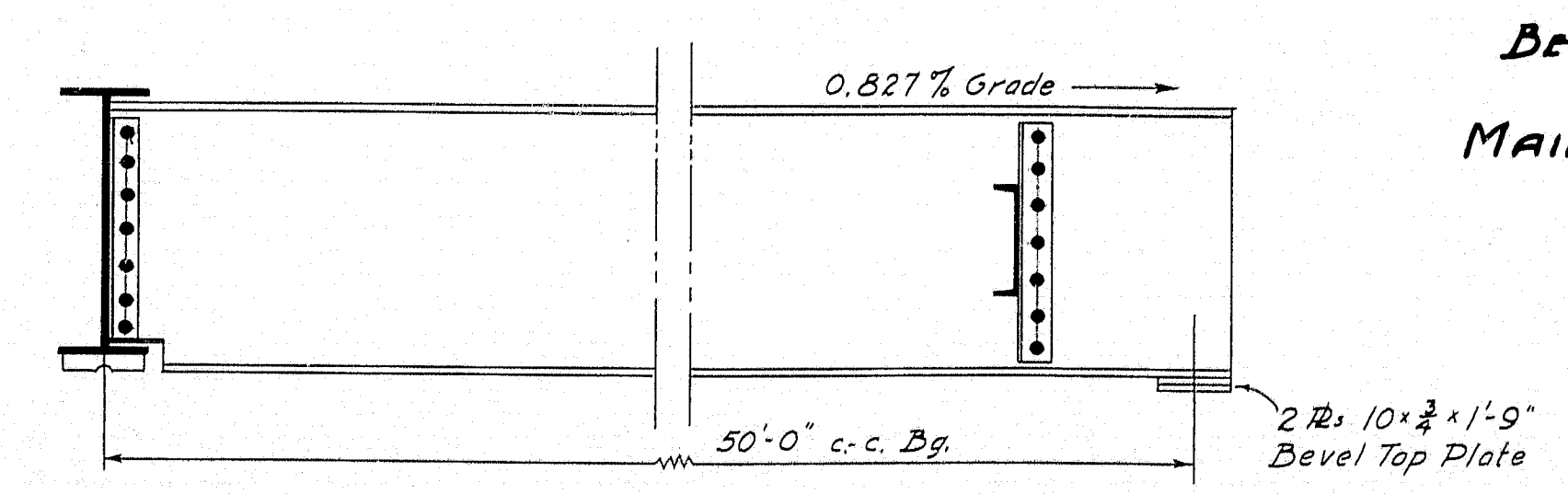
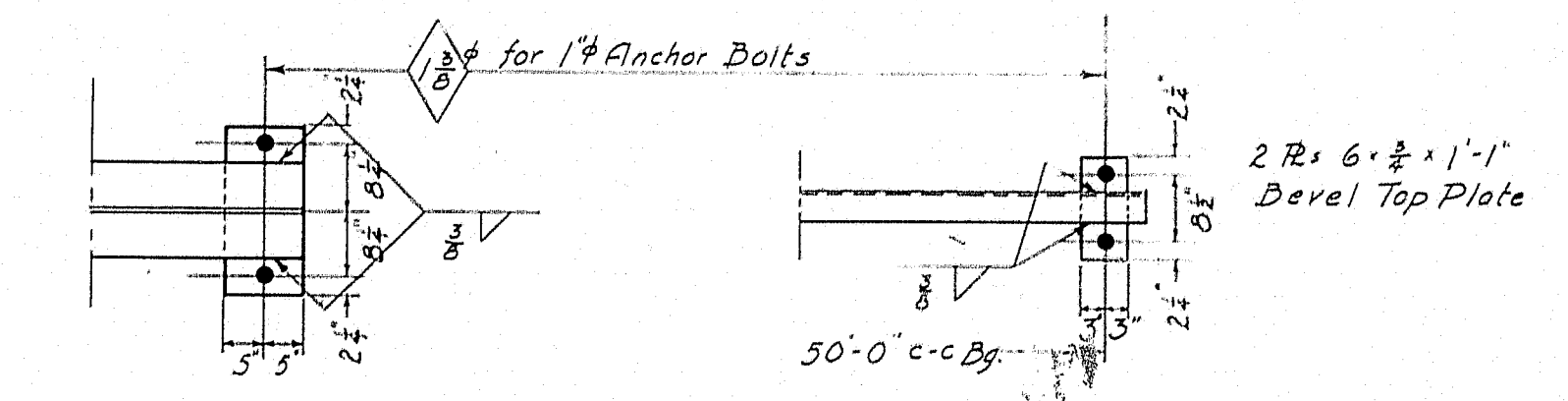
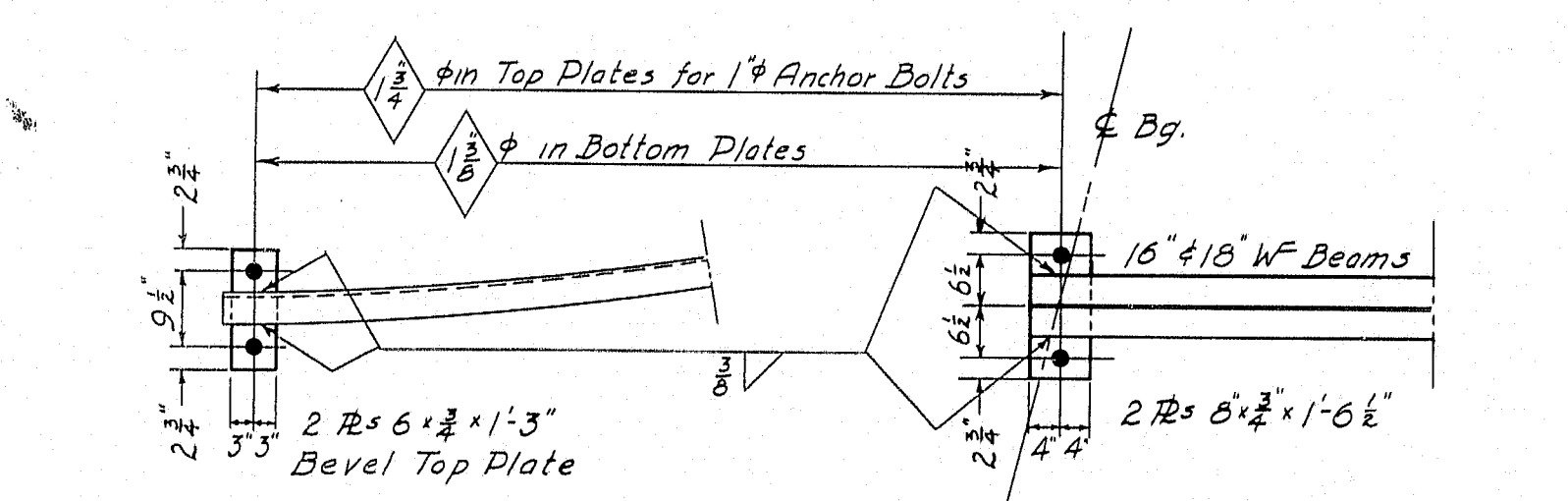


STRINGERS SS1-2-3-4

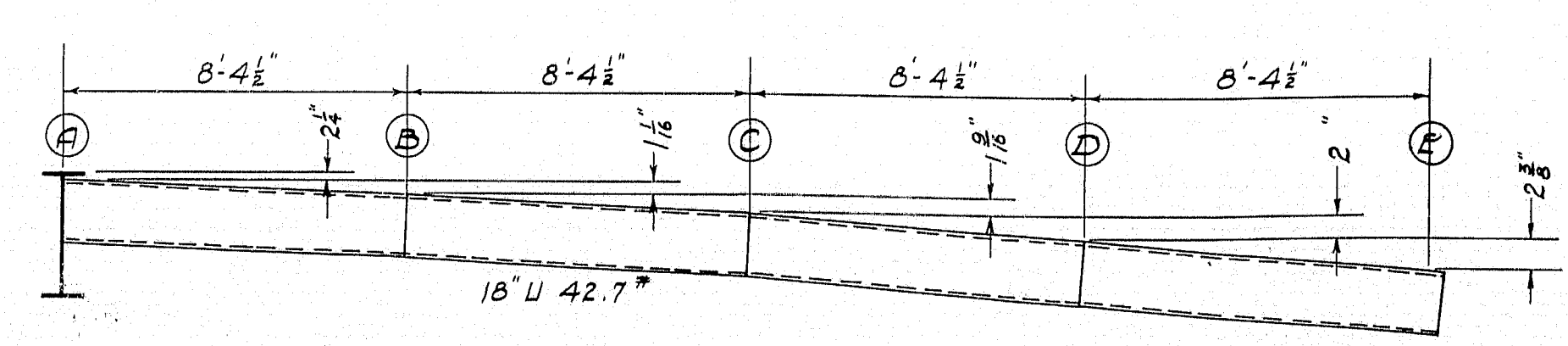


SW BRACKET B1

PART SECTION B-B



TYPICAL STRINGERS



STRINGER SS5

Developed & connections not shown

NOTE: Rail Posts at (A) (B) (C) (D) (E) are to be set vertical and the top of the posts to be 4'-10" above the top of the channel at these points.

WORK THIS SHEET WITH SHEET No. 36

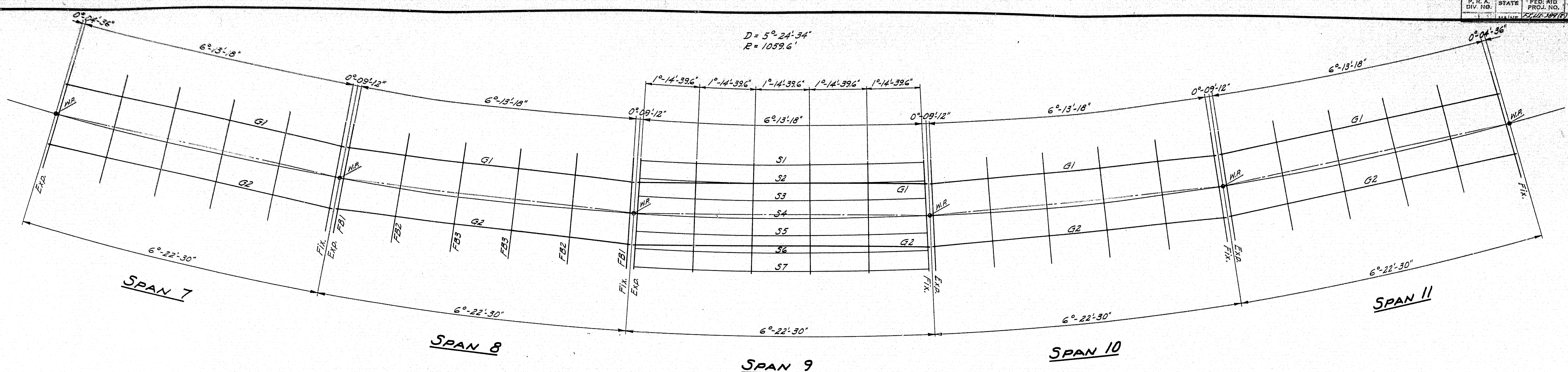
DESIGN - ALLEN	TRACE - FORTIER
DETAIL - "	CHECK - Hamill

BRIDGE - 5196

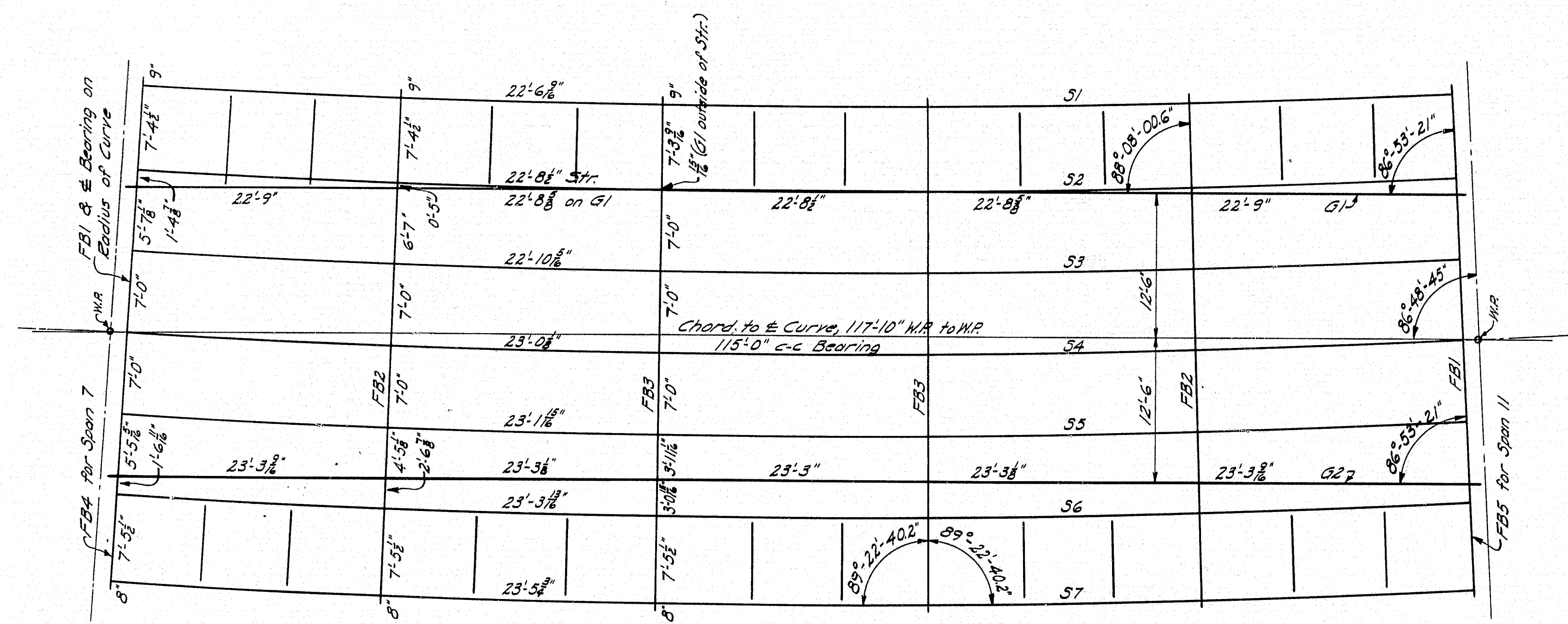
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE
OVER THE
KENNEBEC RIVER
IN THE CITY OF
AUGUSTA
KENNEBEC COUNTY

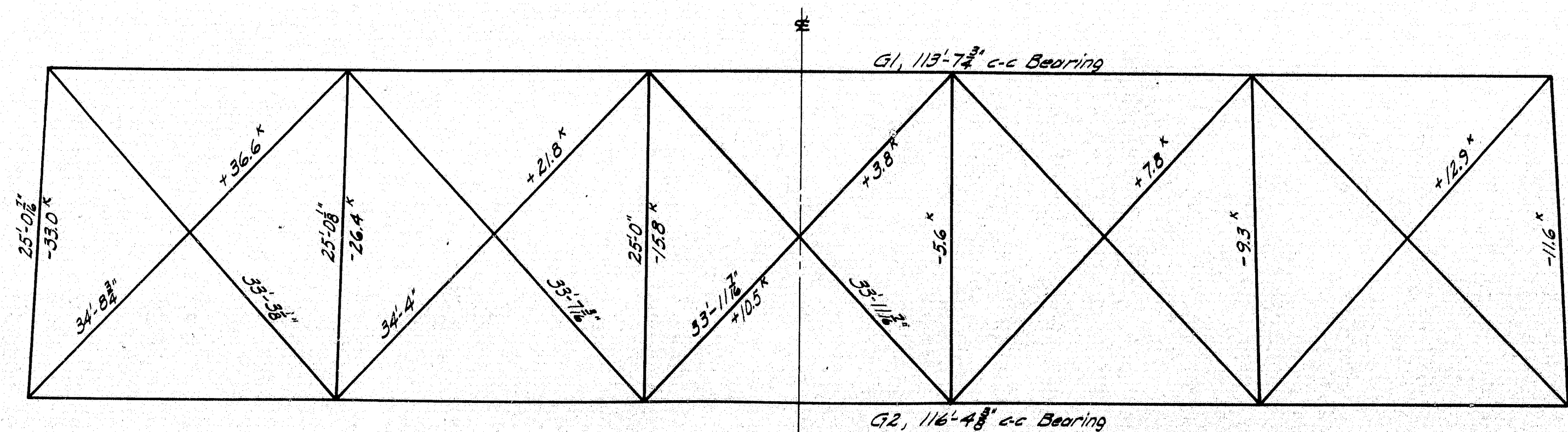
STEEL DETAILS - SPAN NO. 1
SHEET 37 OF 45 AUGUSTA, MAINE FEB. 1948



NOTE: All floor beams placed normal to Curve



SPANS 7 TO 11
(all like except for End FB spans 7 & 11)



HALF PLAN - TOP LATERALS

HALF PLAN - BOTTOM LATERALS

DESIGN DATA

STRINGERS

S1-7
M = 653 K Reg'd. s = 36.3
Use 18" L 42.7 s = 61

S2-6
DLM + SW = 1113 K
LLM = 800 K
I = 240 K
2153 K Reg'd. s = 119.6
Use 21" W 62 s = 126.4

S3
DLM = 639 K
LLM = 1337 K
I = 461 K
2637 K Reg'd. s = 146.5
Use 21" W 73 s = 150.7

S4
DLM = 687 K
LLM = 1546 K
I = 464 K
2697 K Reg'd. s = 149.8
Use 21" W 73 s = 150.7

S5
DLM = 736 K
LLM = 1557 K
I = 467 K
2760 K Reg'd. s = 153.3
Use 21" W 73 s = 150.7

FLOOR BEAMS

DL 11500 K
SWL 6400 K
DL 22500 K
SWL 5200 K
DL 18600 K
DL 19900 K
DL 21200 K
DL 24600 K
SWL 5300 K
DL 11800 K
SWL 6400 K

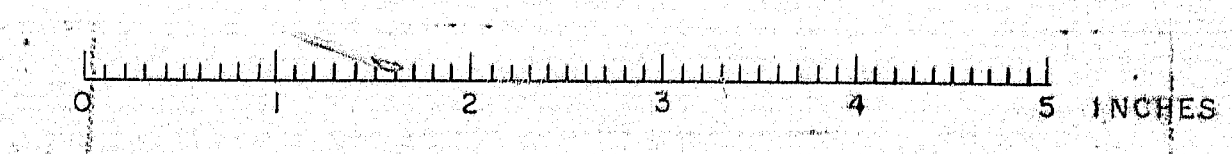
25'-0" c/c Girders

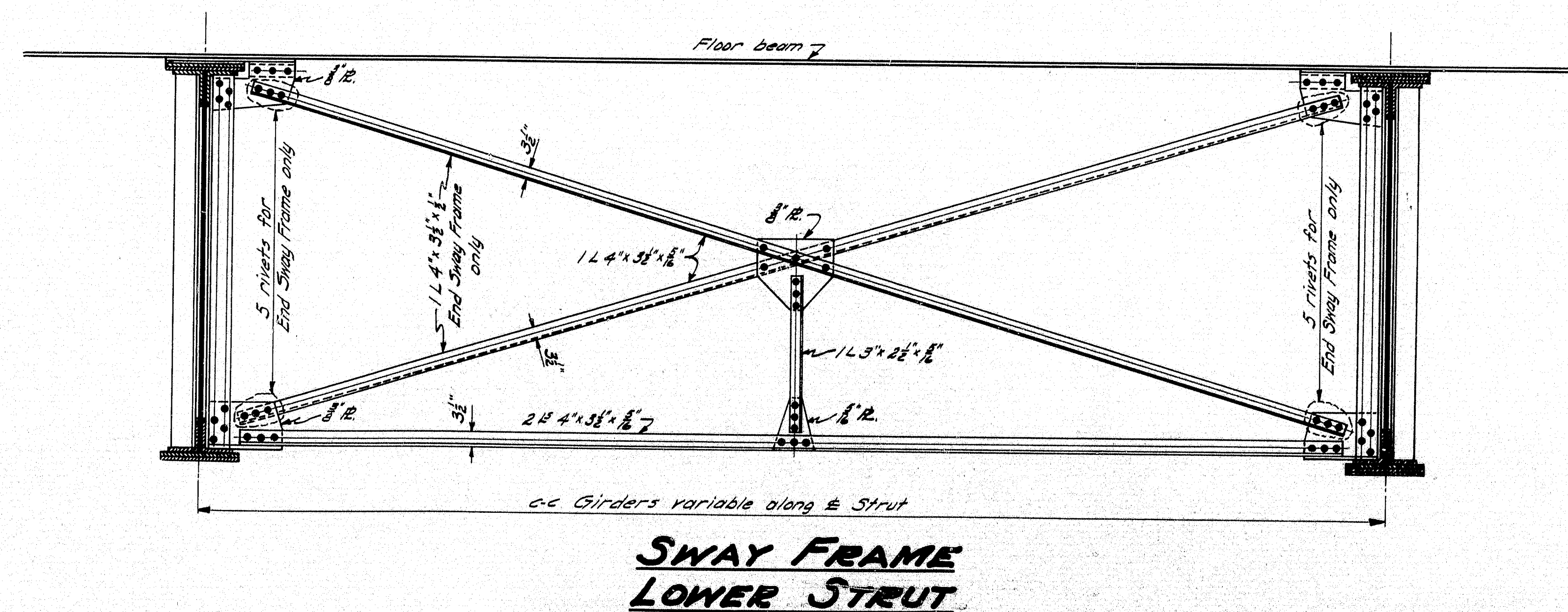
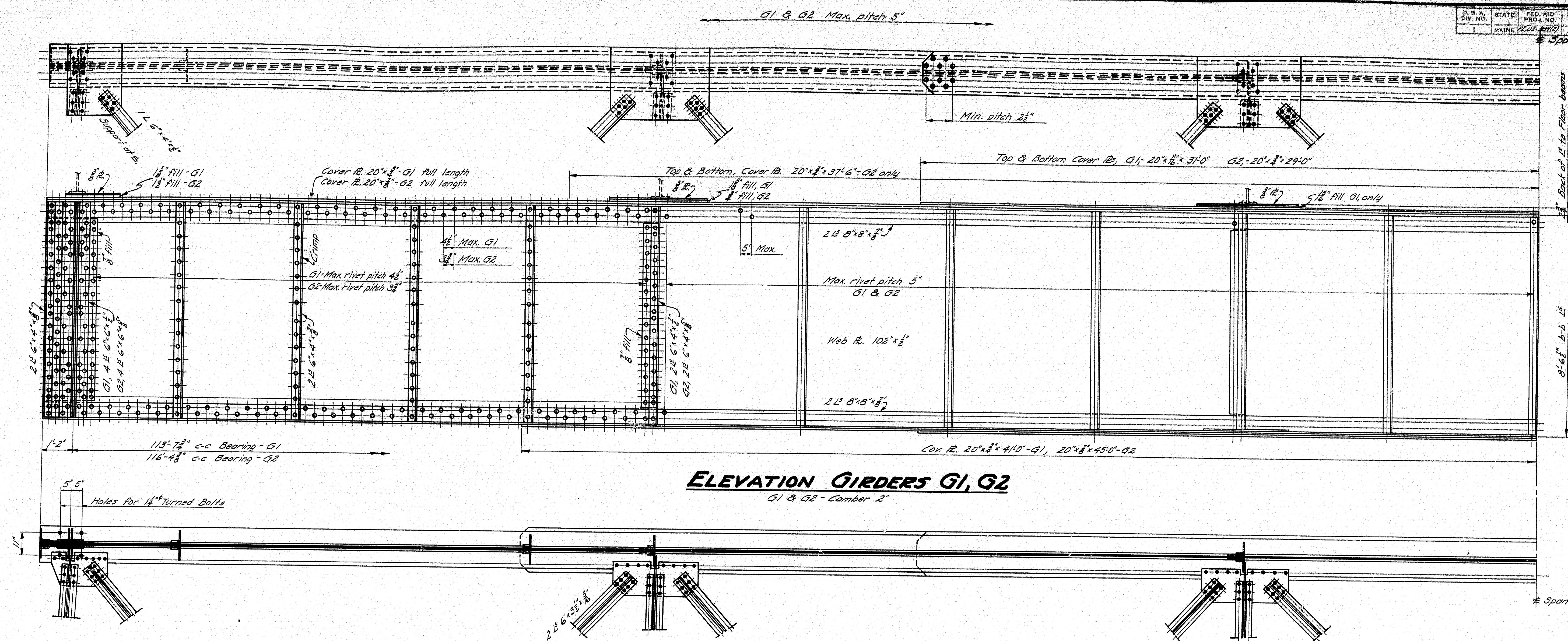
FB3
- Cont. Mom. + Mom. @ FB
DL Con. + SWL 293.1 K DL Con. 74.1 K
DL Un. 8.2 K DL Un. 4.0 K
LL + I 33.5 K LL + I 470.0 K
334.8 K 548.1 K
Reg'd. s = 365.4
Use 33" W 130 s = 404.8
Use the same for all FB.

GIRDERS

G1	G2
Loads LL Un. 665.6 K	800 K
SWLL 55 K	55 K
Con. Shear 27040 K	32500 K
Con. Mom. 18720 K	22600 K
DL Un. Girder 700 K	750 K
Max. Mom. 7350 K	9900 K
Use 4 L 8" x 8" x 8"	4 L 8" x 8" x 8"
Web 1/2 102" x 1"	1/2 102" x 1"
Cor. Rls. 2 Rls. 20" x 1/2"	2 Rls. 20" x 1/2"
2 Rls. 20" x 1/2"	4 Rls. 20" x 1/2"
Net I 266400 K	356400 K

DESIGN - ALLEN	TRACE - CLARK	BRIDGE - 5196
DETAIL - "	CHECK - Hamilton	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
STRESSES & LAYOUT PLATE GIRDER SPANS SHEET 38 OF 45 AUGUSTA, MAINE FEB. 1948		





DESIGN - ALLEN	TRACE - CLARK	BRIDGE - 5196
DETAIL - "	CHECK - <i>Handwritten</i>	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

AUGUSTA BRIDGE

OVER THE

KENNEBEC RIVER

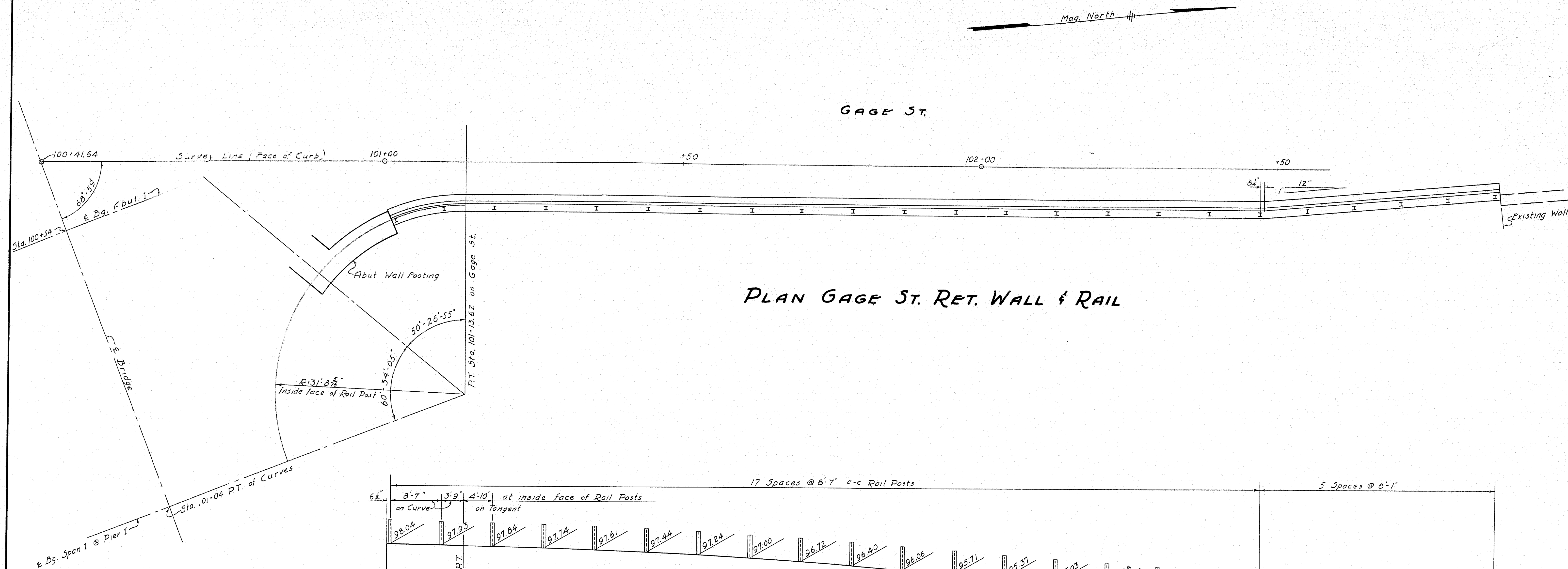
IN THE CITY OF

AUGUSTA

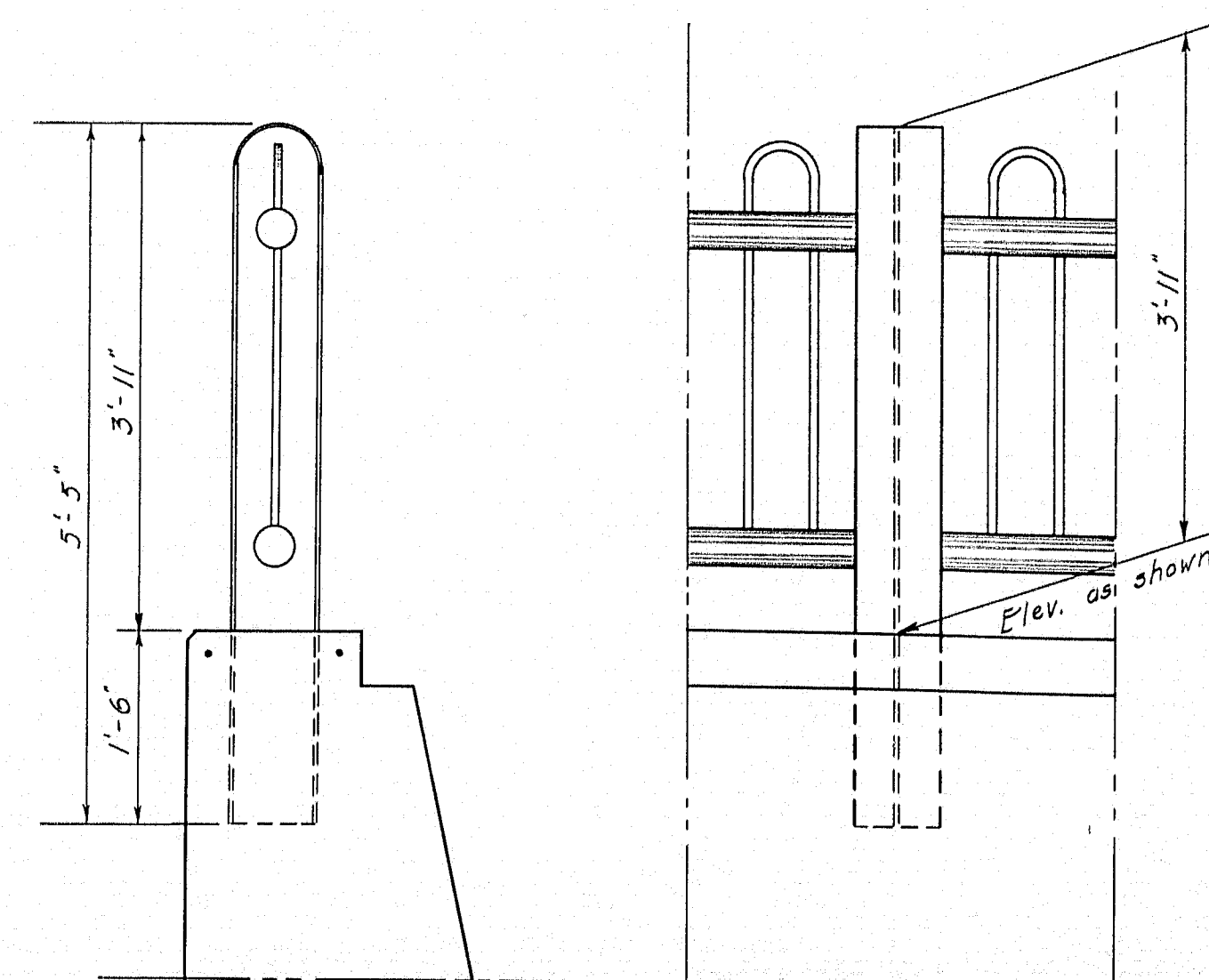
KENNEBEC COUNTY

PLATE GIRDER DETAILS

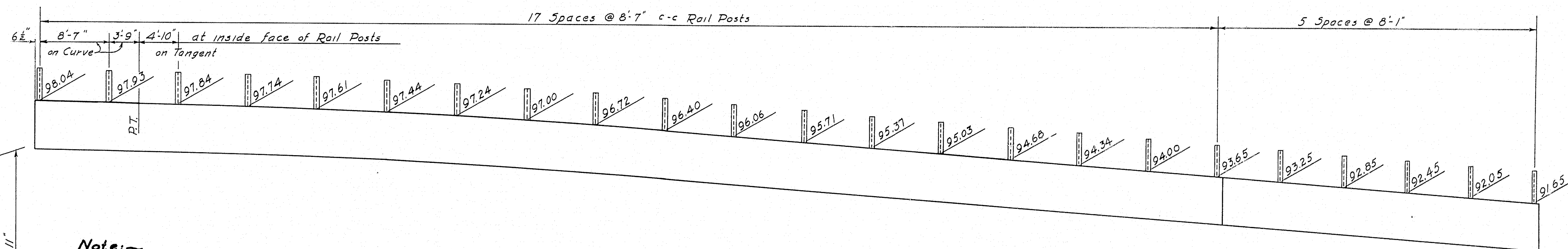
SHEET 39 OF 45 AUGUSTA, MAINE FEB. 1946



PLAN GAGE ST. RET. WALL & RAIL



TYPICAL RAIL POST DETAIL
For all Details not shown see Sheet #27 of Bridge Rail



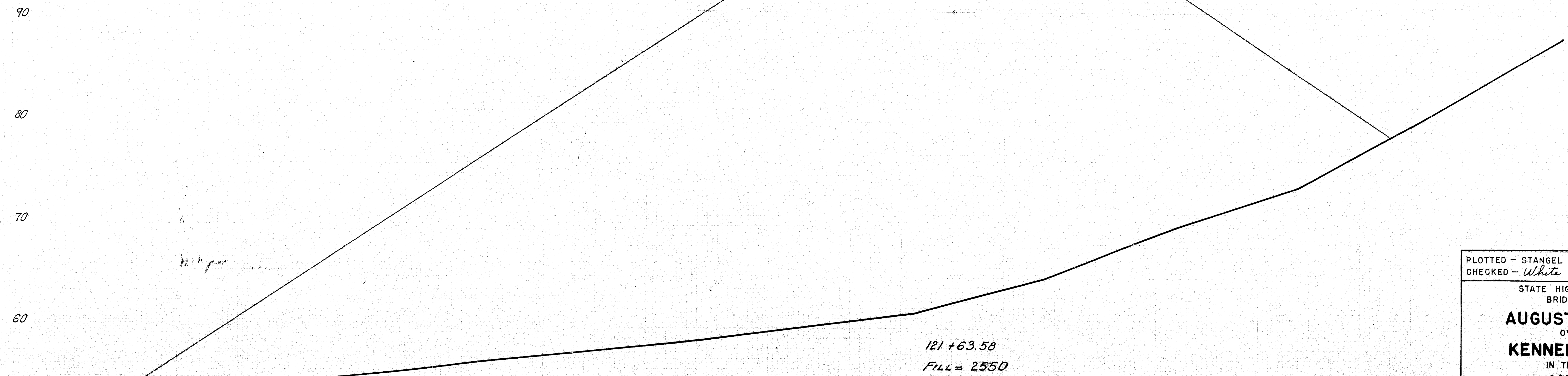
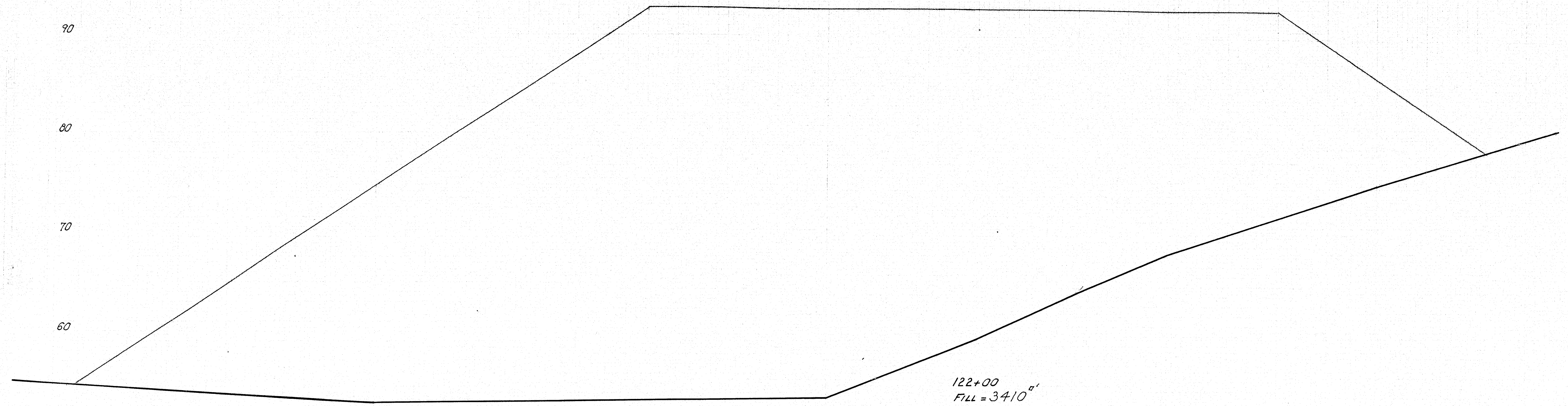
RAIL ELEVATION

Note:— The Posts and Pales are to be vertical and the Posts are to be normal to the curve or tangent shown in Plan View.
The steel rail posts and the wrought iron rail on this wall shall be furnished and delivered by the Structural Steel Contractor.
The construction of the concrete retaining wall and the erection of the rail and posts shall be done by the Bridge Floor Contractor.

DESIGN - ALLEN	TRACE - FORTIER	BRIDGE - 5196
DETAIL - "	CHECK - <i>[Signature]</i>	
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
GAGE STREET RAIL		
SHEET 41 OF 45 AUGUSTA, MAINE FEB. 1948		

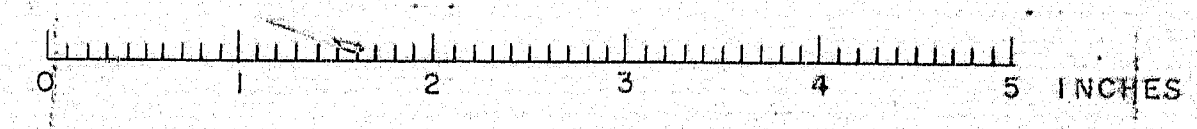
P. R. A. DIV. NO.	STATE	P. D. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	FEEL-3896	42	45

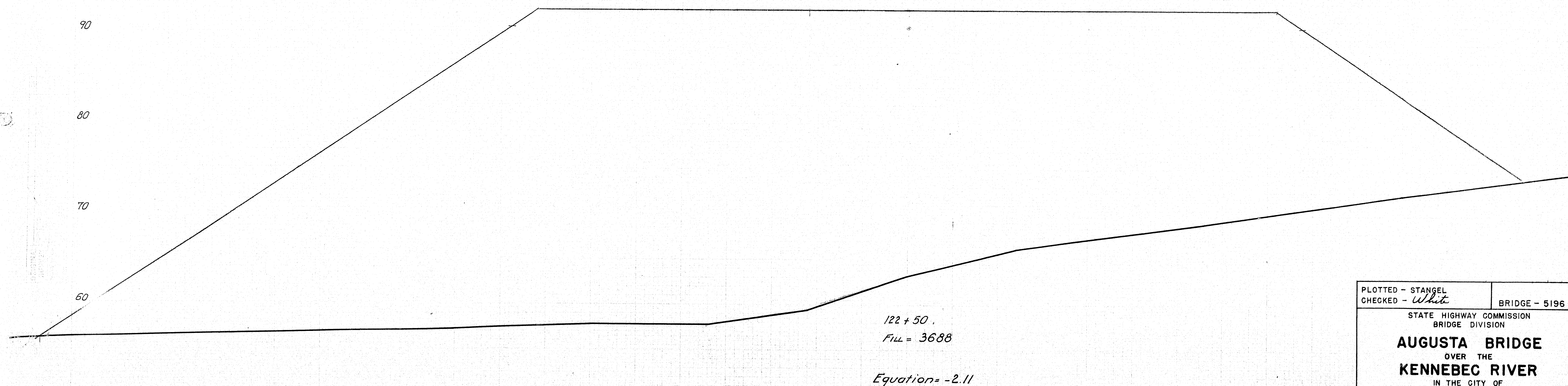
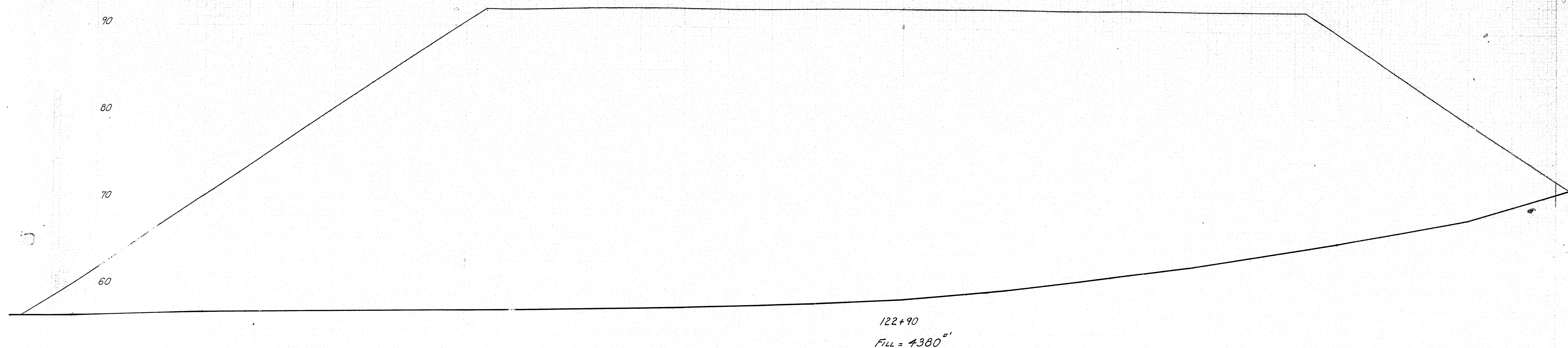
Equation = $-2.11'$



PLOTTED - STANGEL		BRIDGE - 5196
CHECKED - <i>White</i>		
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE		
OVER THE		
KENNEBEC RIVER		
IN THE CITY OF		
AUGUSTA		
KENNEBEC COUNTY		
CROSS SECTIONS - EAST APPROACH		
SHEET 42 OF 45 AUGUSTA, MAINE FEB. 1948		

52-42

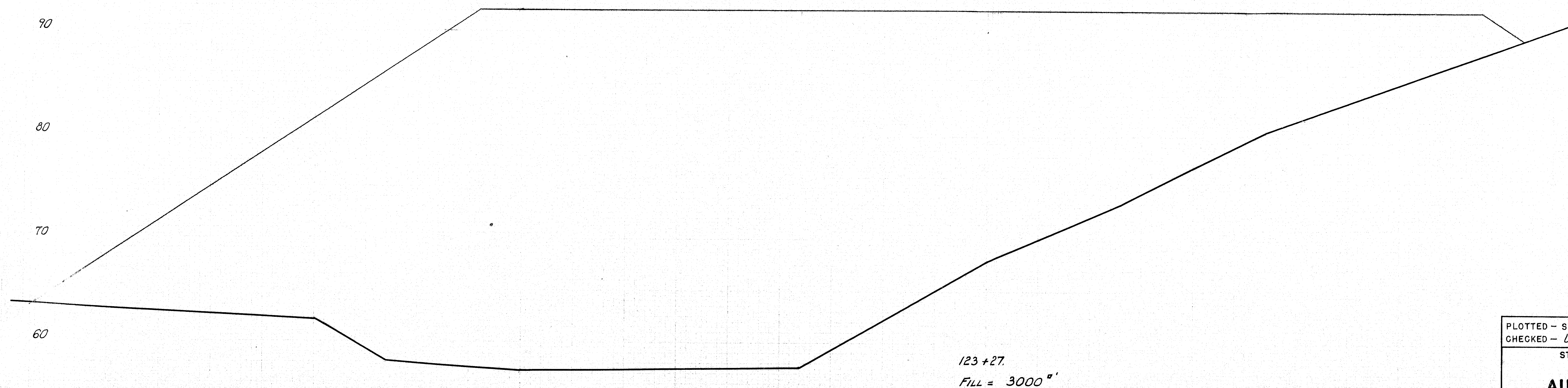
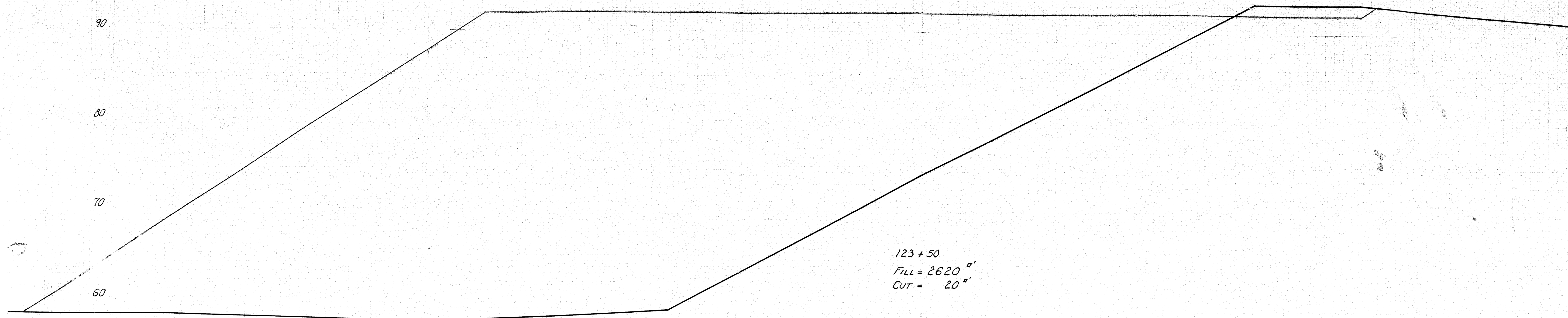




PLOTTED - STANGEL CHECKED - <i>White</i>	BRIDGE - 5196
STATE HIGHWAY COMMISSION BRIDGE DIVISION AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY CROSS SECTIONS - EAST APPROACH SHEET 43 OF 45 AUGUSTA, MAINE FEB. 1948	

52-43

P. R. A. DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1423098	44	45



PLOTTED - STANGEL		BRIDGE - 5196
CHECKED - <i>White</i>		
STATE HIGHWAY COMMISSION BRIDGE DIVISION		
AUGUSTA BRIDGE OVER THE KENNEBEC RIVER IN THE CITY OF AUGUSTA KENNEBEC COUNTY		
CROSS SECTIONS - EAST APPROACH SHEET 44 OF 45 AUGUSTA, MAINE FEB. 1948		

52-44

0 1 2 3 4 5 INCHES