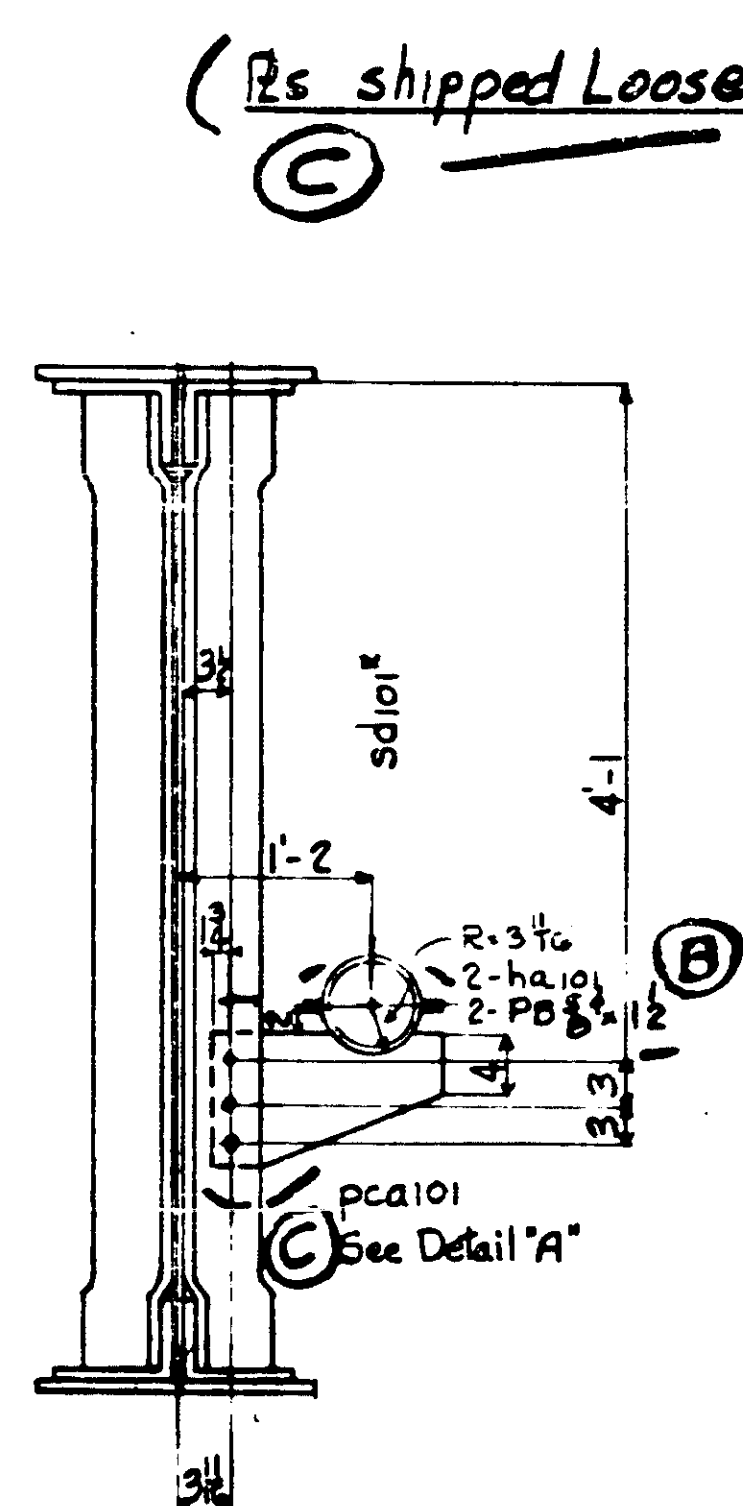
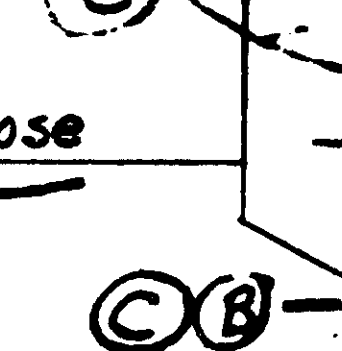
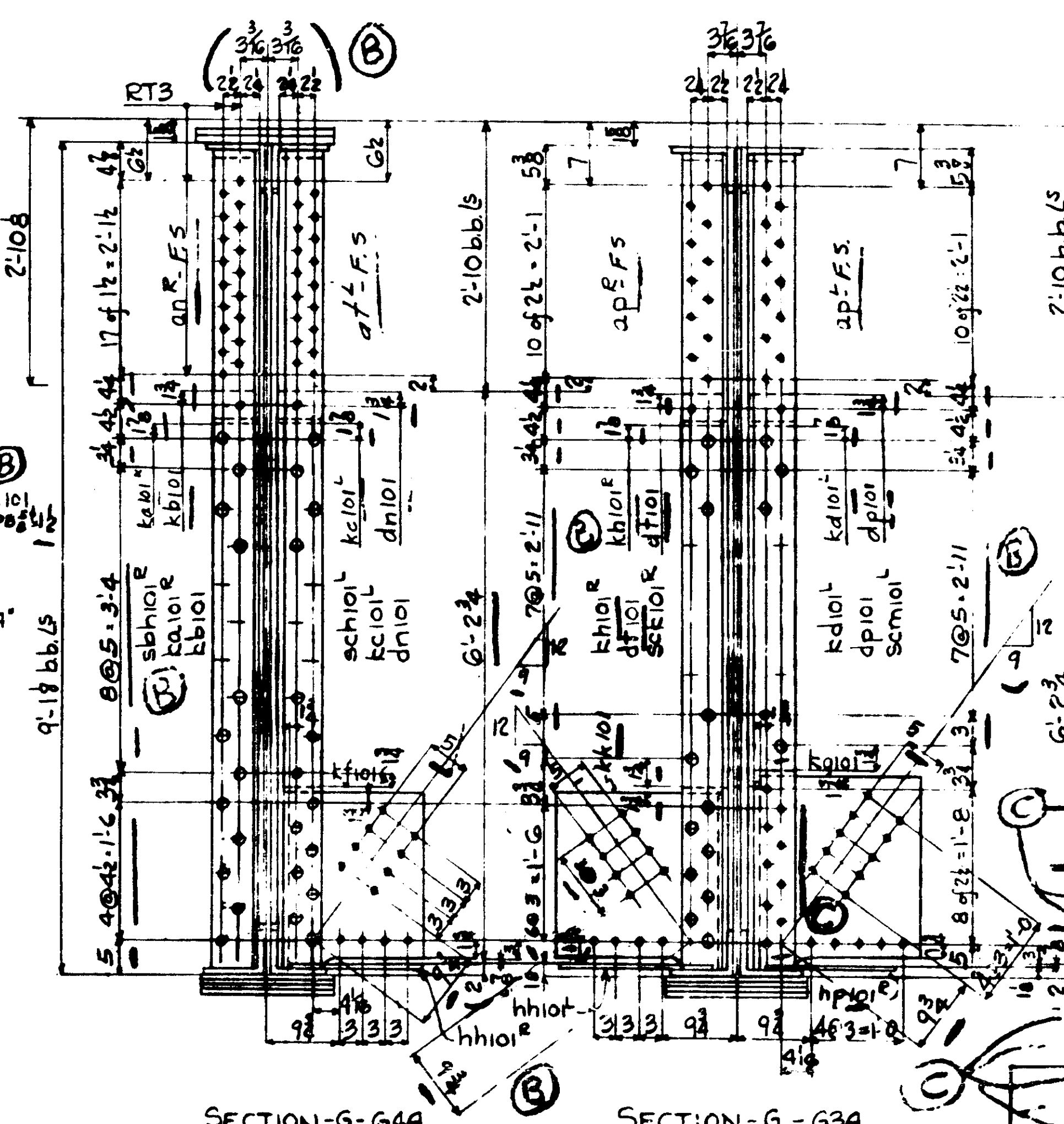
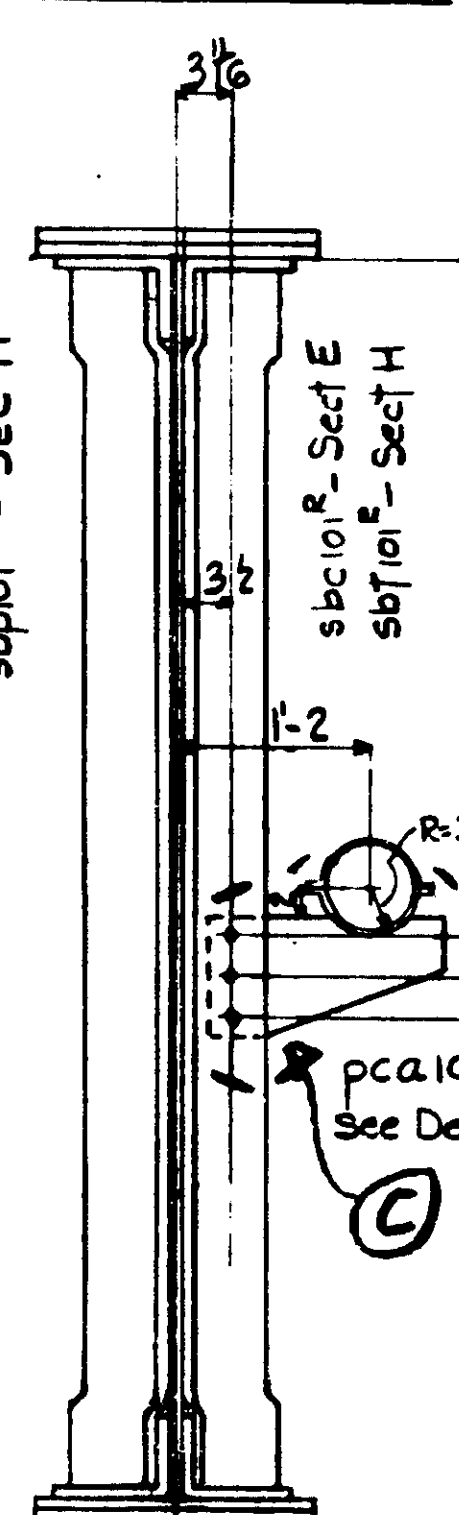
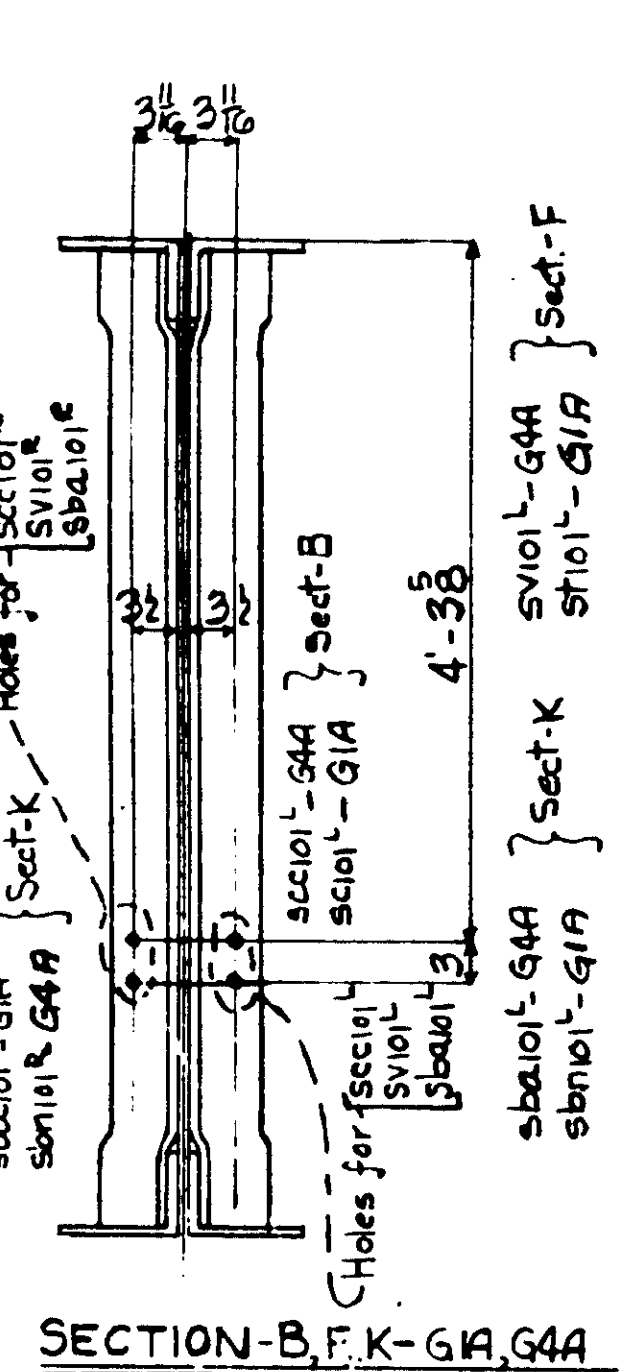




78	1	R	28	3/16	2	72	pbc101	G3A	21	5		
79												
80	1	R	28	3/16	3	7	pbd101-G3A	38	5			
81	1	R	28	3/16	3	103	pbf101-G3A	43	5			
82	1	R	36	3/8	4	62	hgr101	G1A Curved	8	5		
83	1	R	28	3/16	3	83	phm101-G2A	41	5			
84	1	R	28	3/16	3	83	pbn101-G2A	40	5			
85	1	R	28	3/16	3	7	pdp101-G3A	41	5			
86	1	R	28	3/16	3	72	pot101-G3A	41	5			
87	1	R	28	3/16	3	93	hki101	G4A Beir	20	5		
88	2	F16	6	1/6	4	34	h101	G2A G3A		5		
89	2	F16	6	4	2	5	113	khio1	25-1	5	104	
90	2	F11	4	3	2	5	076	G1A G4A		5		
91	6	F11	4	3	2	5	076	fbf		5		
92	2	F16	144	1/6	2	0	hk101	Fim1 G2R G3M	6	5		
93	8	F16	4	3	2	027	fy101	G1A G4A		5		
94	8	F11	4	3	5	0	fw101	G1A G4A		5		
95	8	F11	15	3	8	170	dm101		3	5		
96	8	R	35	3	8	14	pbb101	32-5	8	1062		
97	2	F16	4	3	3	0	atf	R-G1A R-G2A	40-0	1	1043	
98	12	F16	4	3	3	13	aa101		40-0	1019		
99	24	F16	4	3	3	13	ab		40-0	1019		
100	4	F16	4	3	3	2	88	acf	R-G1A G2A R-G3A G4A	40-0	1019	
101	4	F16	4	3	3	2	78	acf	R-G1A G2A R-G3A G4A	40-0	1019	
102	6	F16	4	3	3	2	78	acf		40-0	1019	
103							G2101	G1A G4A		AS		
104	16	R	5	3	4	43	pbg1	chamber	6	5		31

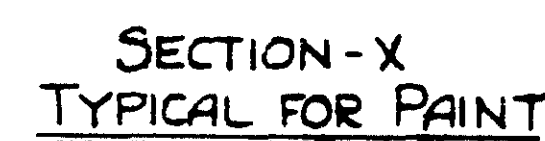
2	1	ONE - GIRDER - G2A	ONE GIRDER - G3A	6022 P	DVC 3748
2	1	ONE - GIRDER - G2A	ONE GIRDER - G3A	6011 Z	DVC 3748
8	4	Wt R 713 3	45 03	1	728.3
9	4	Wt R 713 3	45 03	1	1056
8	4	Wt R 702 3	45 103	1	413.2
7	4	Wt R 702 3	31 8.8	1000	144.3
9	4	Wt R 702 3	28 5.9	670	1051
8	4	Wt R 702 3	30 0.6	2	91.8
10	8	Wt R 702 3	87.4	2	87.6
11	8	Wt R 702 3	56.0	6	66.2
7	8	Wt R 702 3	56.0	6	66.2
12	8	Wt R 702 3	56.0	6	66.2
13	8	Wt R 702 3	56.0	6	66.2
14	8	Wt R 702 3	56.0	6	66.2
15	8	Wt R 702 3	56.0	6	66.2
16	8	Wt R 702 3	56.0	6	66.2
17	8	Wt R 702 3	56.0	6	66.2
18	8	Wt R 702 3	56.0	6	66.2
19	8	Wt R 702 3	56.0	6	66.2
20	8	Wt R 702 3	56.0	6	66.2
21	8	Wt R 702 3	56.0	6	66.2
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41	8	Wt R 702 3	56.0	6	66.2
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49	8	Wt R 702 3	56.0	6	66.2
50	8	Wt R 702 3	56.0	6	66.2
51	8	Wt R 702 3	56.0	6	66.2
52	8	Wt R 702 3	56.0	6	66.2
53	8	Wt R 702 3	56.0	6	66.2
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63	8	Wt R 702 3	56.0	6	66.2
64	8	Wt R 702 3	56.0	6	66.2



F		DRAWINGS MADE AT <u>TRENTON</u> PLANT
E		WORK FABRICATED AT <u>AMERIDGE</u> PLANT
D		IN CHARGE OF <u>E.B. MARKS</u>
C	<u>5-17-54</u>	DRAW. MADE BY <u>W.L.P.</u> DATE <u>9-22-52</u>
B	<u>2-22-54</u>	DRAW. CHECKED BY <u>PEL</u> DATE <u>1-29-53</u>
A	<u>X 2-12-54</u>	

REVISIONS
 ORDER NO. Q4150
 SHEET NO. 101 EF

ALL IN WELDING



SPECIFICATIONS - Maine State Highway Commission 1945 and special Provisions

MATERIAL O.H. Steel A.S.T.M. A7-B2T

RIVETS $\frac{3}{8}$ " HOLES - $\frac{5}{16}$ " Unless Noted

WORKMANSHIP Holes in material thicker than the diameter of the rivet shall be drilled.

Holes in main material, including holes at splices, in bearing stiffeners and splice plates to be subpunched or subdrilled $\frac{1}{8}$ and reamed to size.

Holes marked RT to be subpunched or subdrilled $\frac{1}{8}$ and reamed to size to a metal template.

Holes marked RA to be subpunched or subdrilled $\frac{1}{8}$ and reamed to size while connecting members are assembled to cambered position. (See Sheet E102)

Connecting members to be match marked.

Fillers and splice plates under stiffeners to fit within $\frac{1}{8}$ of flange angles.

B.E. indicates bearing end of stiffeners.

PAINT Yes, Except as shown in Section X

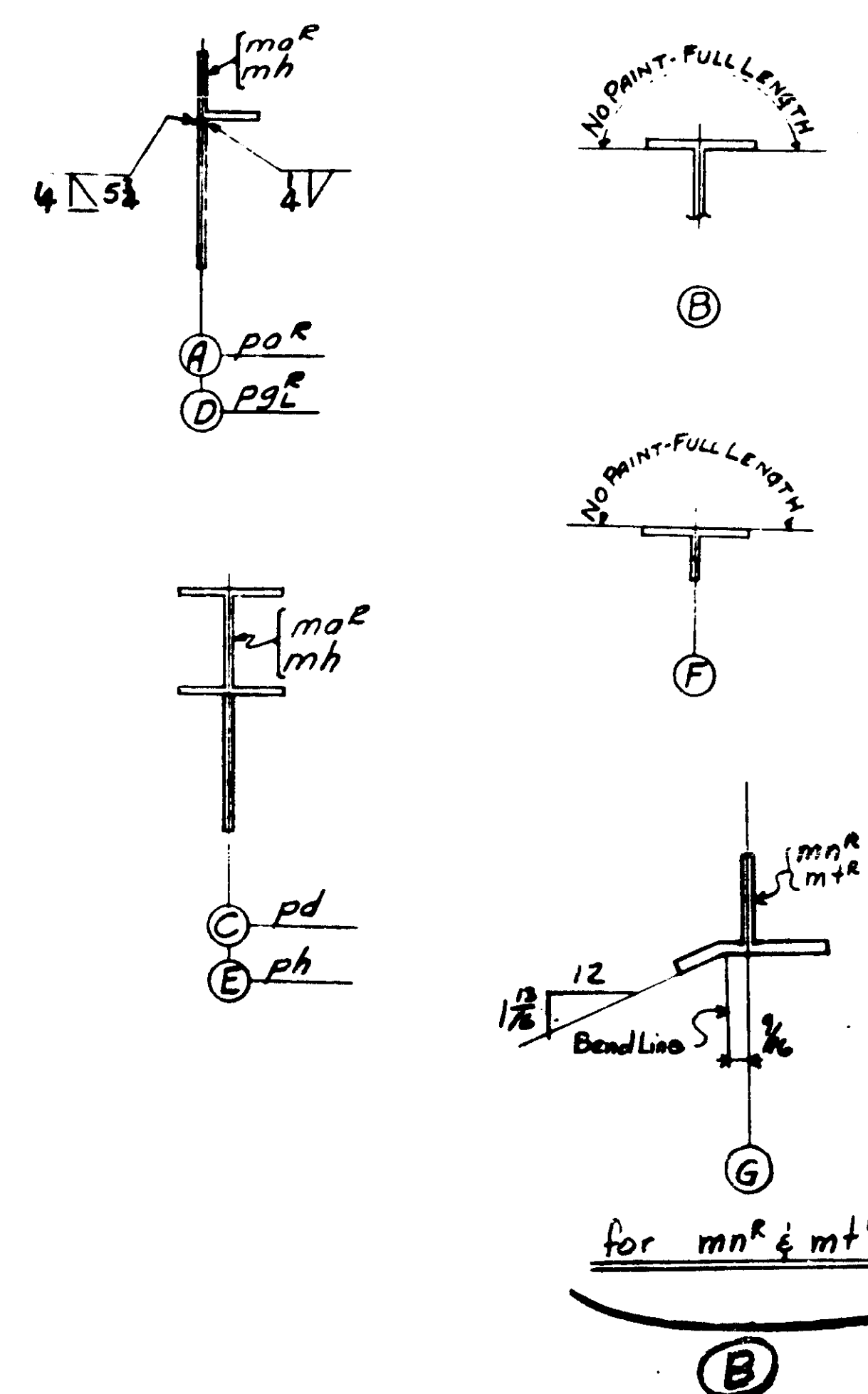
SHOP CONTACT SURFACES No.

[illegible]

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

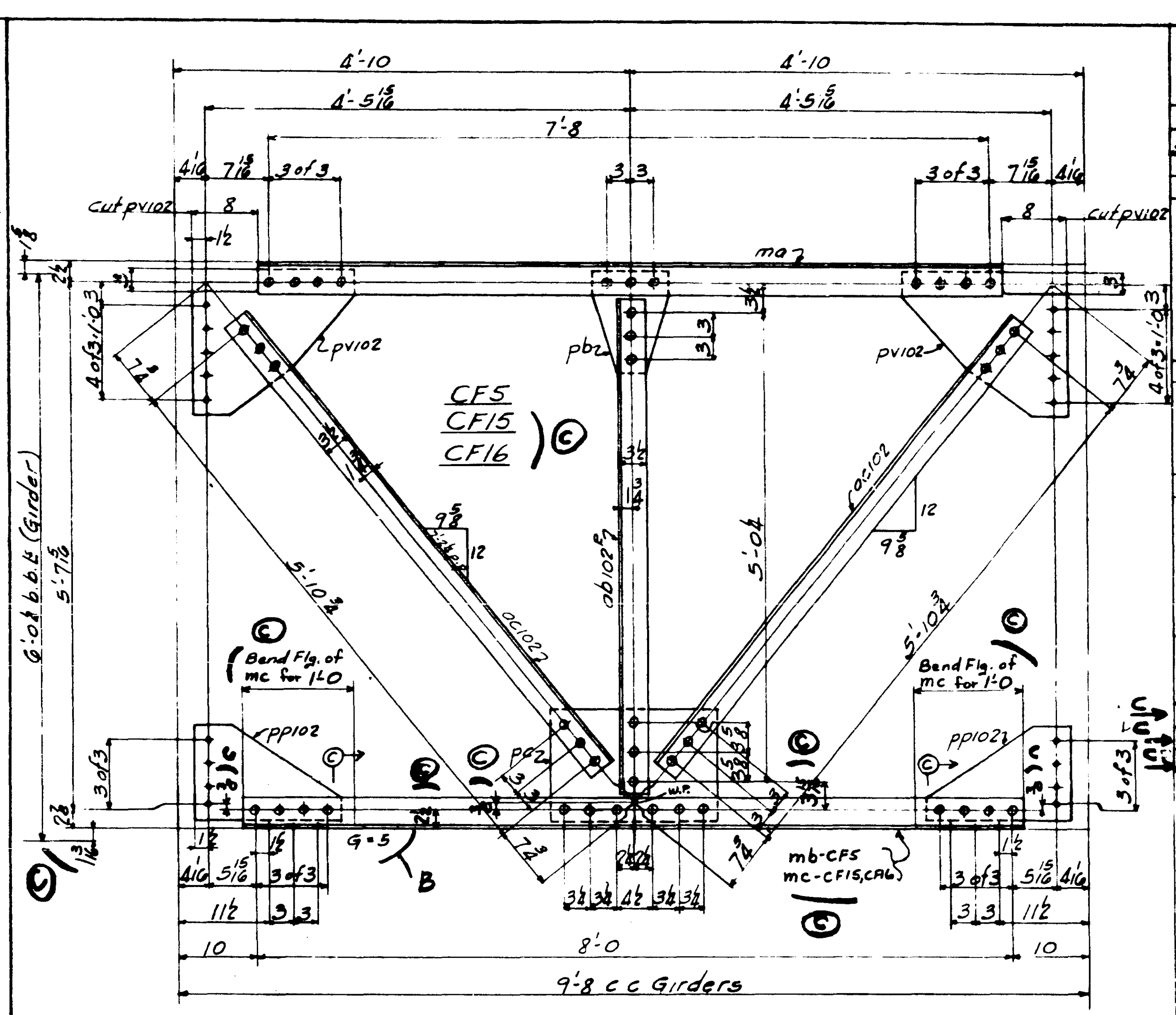
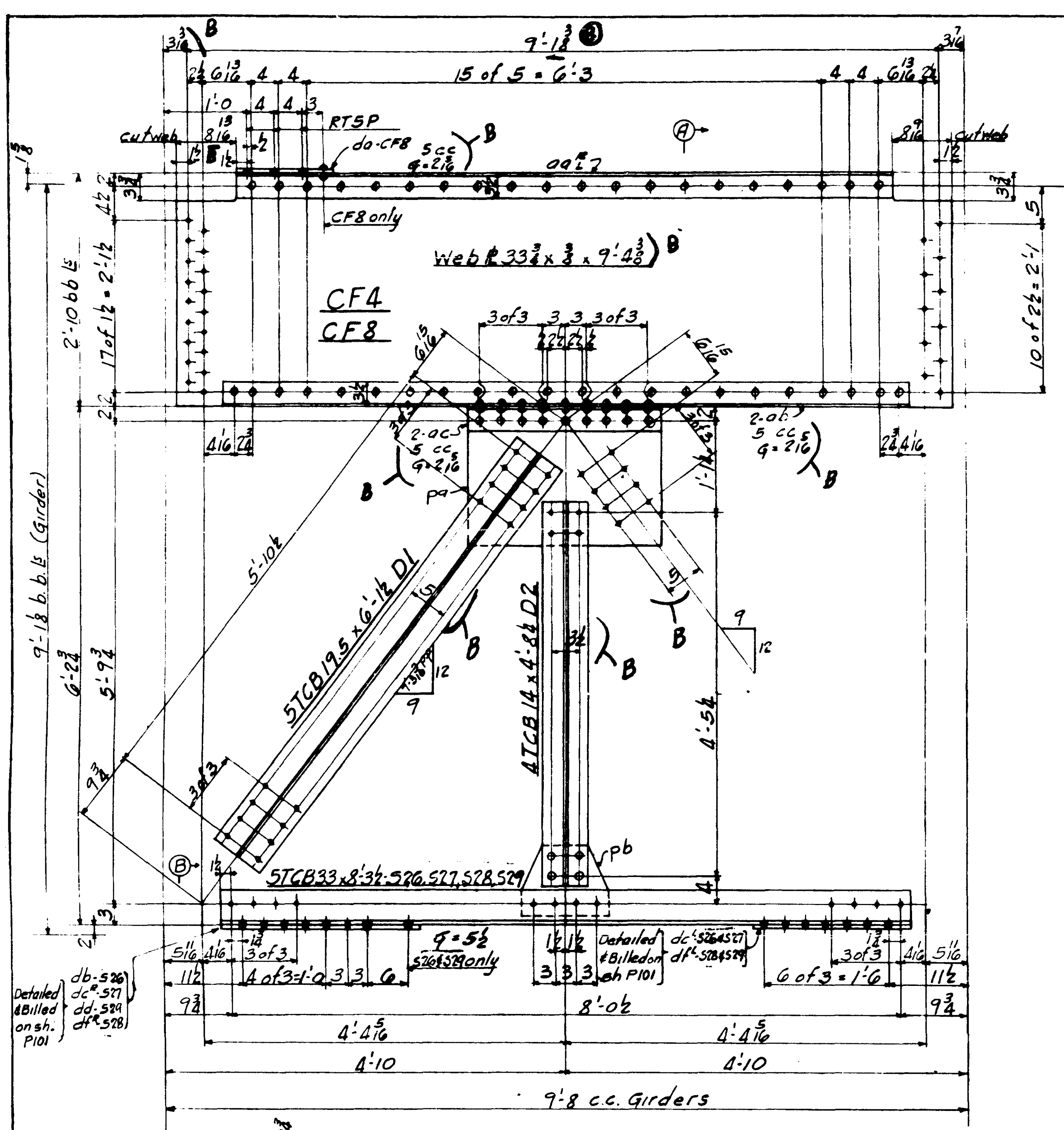
001 1280-9-01 PENCH.TEX

F		DRAWINGS MADE AT <u>TRENTON</u> PLANT
E		WORK FABRICATED AT <u>AMBRIDGE</u> PLANT
D	<u>5-18-54</u>	IN CHARGE OF <u>E.B. MARKS</u>
C	<u>4-30-54</u>	DRAW. MADE BY <u>W.J.P.</u> DATE <u>1-29-54</u>
B	<u>2-22-54</u>	DRAW. CHECKED BY <u>FGL</u> DATE <u>1-29-54</u>
X	<u>12-1-54</u>	
REVISIONS		ORDER NO. <u>Q4150</u> SHEET NO. <u>101F</u>



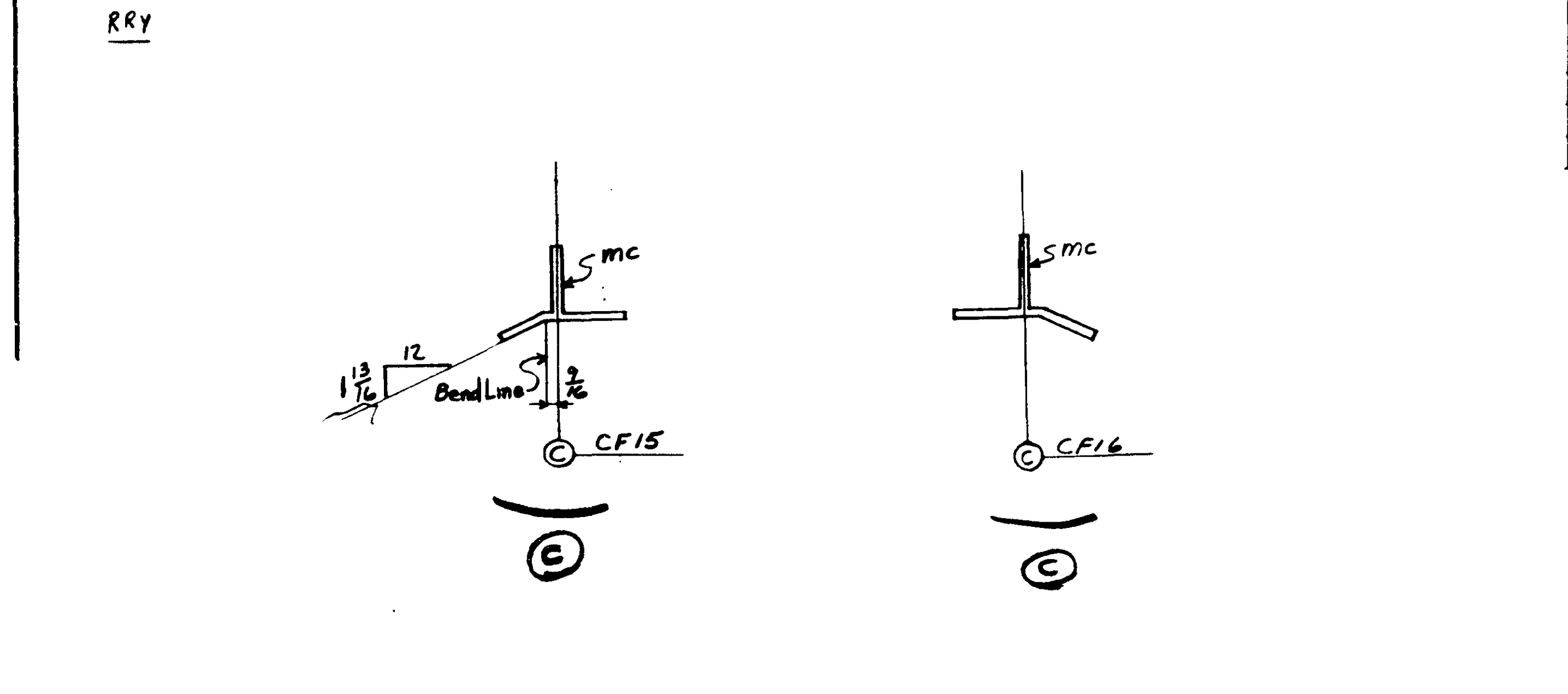
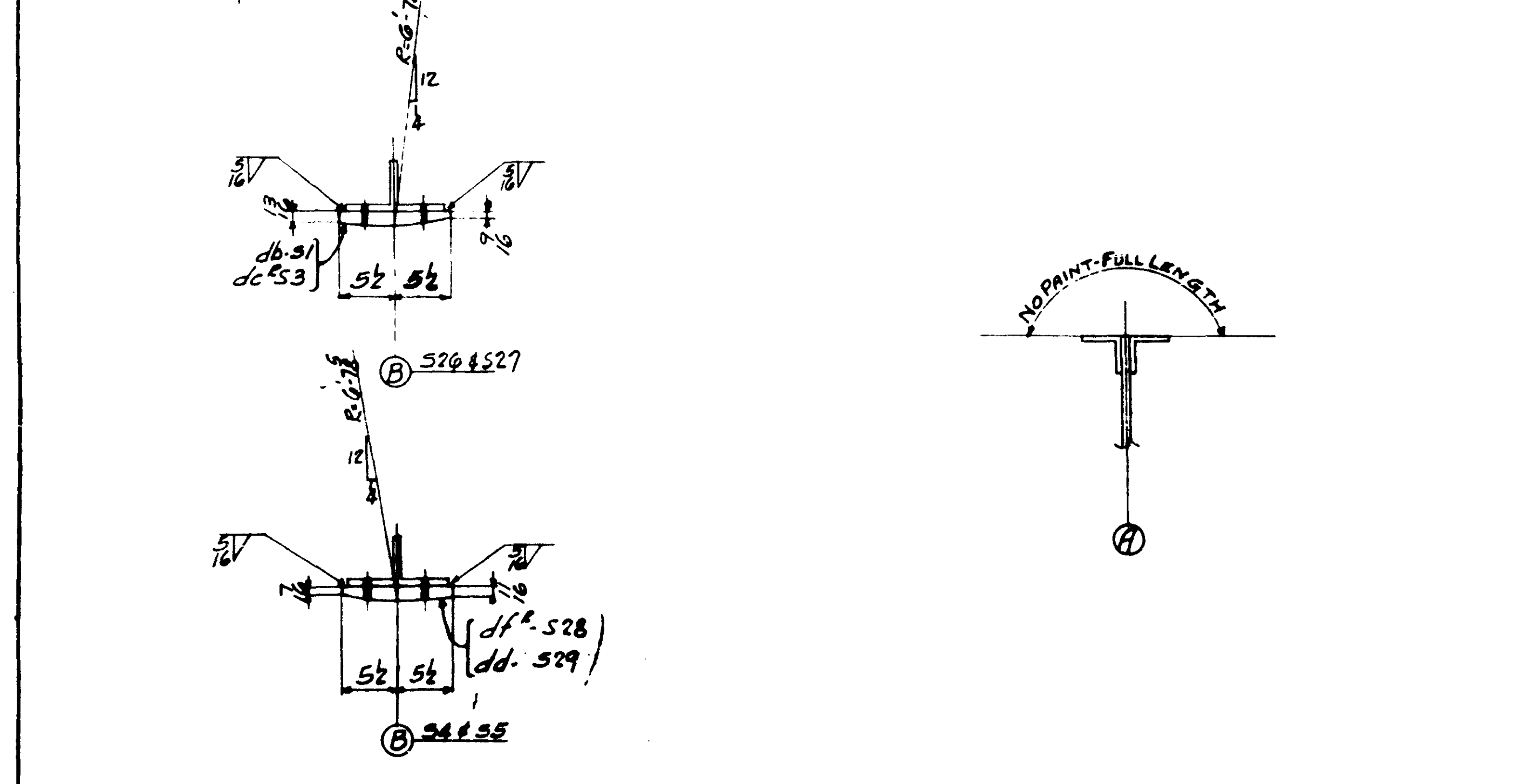
CROSS FRAMES DIV. 1-23-45 Riv
P#
Sheet Total = 36470
STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR-BREWER BRIDGE
OVER PENOBSCOT RIVER
BANGOR, MAINE
EST. APPROX. 1941
AMERICAN BRIDGE

F	
E	
D	
C	3-3-5
B	2-26-5
X	2-22-50
REVISIONS	



DIVISIONS

LINE	NO.	MATERIAL	LENGTH	REMARKS	ORDERED	REMARKS
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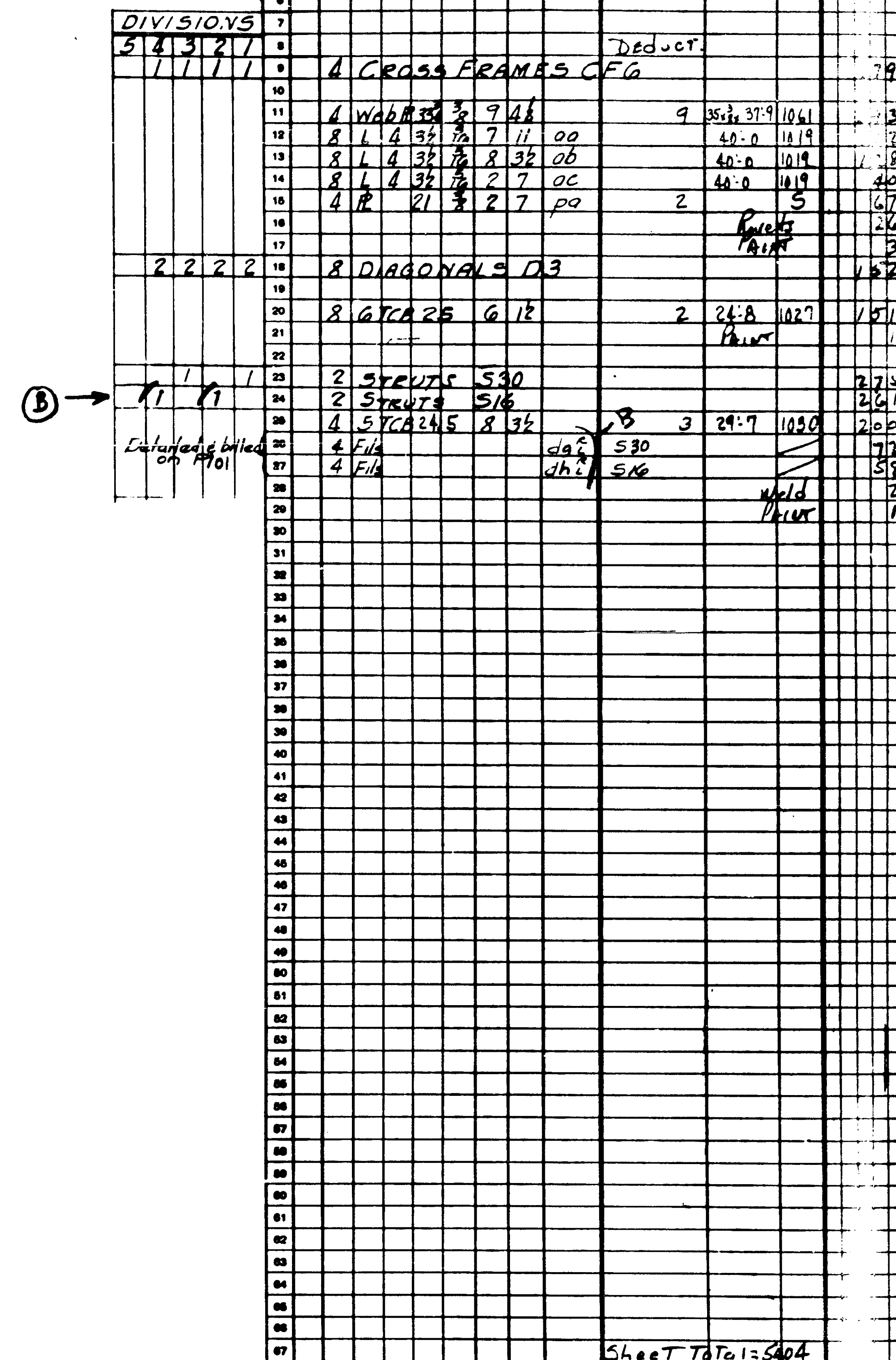
Detail & Billed on Sh. P101

NOTES:
SPECIFICATIONS: MAINE STATE HIGHWAY COMMISSION 1945
AND SPECIAL PROVISIONS.
MATERIAL: O.H. STEEL A.S.T.M. A7-52T
RIVETS: 3/8"
HOLES: 1/2"
WORKMANSHIP: Holes marked RT to be subpunched
or subdrilled and reamed to size to a metal template.
PAINT: Yes Except as noted.
SHOP CONTACT SURFACES: No.

CROSS FRAMES DIV. 1-2-3-4-5

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR-BREWER BRIDGE
OVER PENOBSCOT RIVER
BANGOR, MAINE

DRAWINGS MADE AT TRENTON PLANT
WORK FABRICATED AT ANDERIDGE PLANT
IN CHARGE OF E.B. MARKS
DRAW. MADE BY E.B. MARKS DATE 7-9-53
DRAW. CHECKED BY E.B. MARKS DATE 7-11-53
ORDER NO. Q4150 SHEET NO. 103



F		DRAWINGS MADE AT <u>IRENDA</u> PLANT
E		WORK FABRICATED AT <u>ANBRIDGE</u> PLANT
D	3-12-54	IN CHARGE OF <u>EB MARKS</u>
C	2-25-54	DRAW. MADE BY <u>SPK</u> DATE <u>9-10-53</u>
B	2-22-54	DRAW. CHECKED BY <u>JLP</u> DATE <u>2-12-54</u>
X	2-18-54	
REVISONS		ORDER No. <u>Q4130</u> SHEET No. <u>104</u>

AMERICAN BRIDGE

LINE	ITEM	MATERIAL	LENGTH	REMARKS	ORDERED	QUANTITY
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LATERAL BRACING

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR-BREWER BRIDGE
OVER PENOBSCOT RIVER
BANGOR, MAINE

AMERICAN BRIDGE

DRAWINGS MADE AT TRENTON PLANT

WORK FABRICATED AT BANGOR PLANT

IN CHARGE OF E.B. MARKS

DRAW. MADE BY J.P. MARKS DATE 7-26-53

DRAW. CHECKED BY J.P. MARKS DATE 2-10-54

REVISIONS

ORDER No. Q4150

SHEET No. 105

NOTES:
SPECIFICATIONS: MAINE STATE HIGHWAY
COMMISSION 1945 AND SPECIAL PROVISIONS
MATERIAL: O.H. STEEL A.S.T.M. A7-52T
HOLE: 1/8"

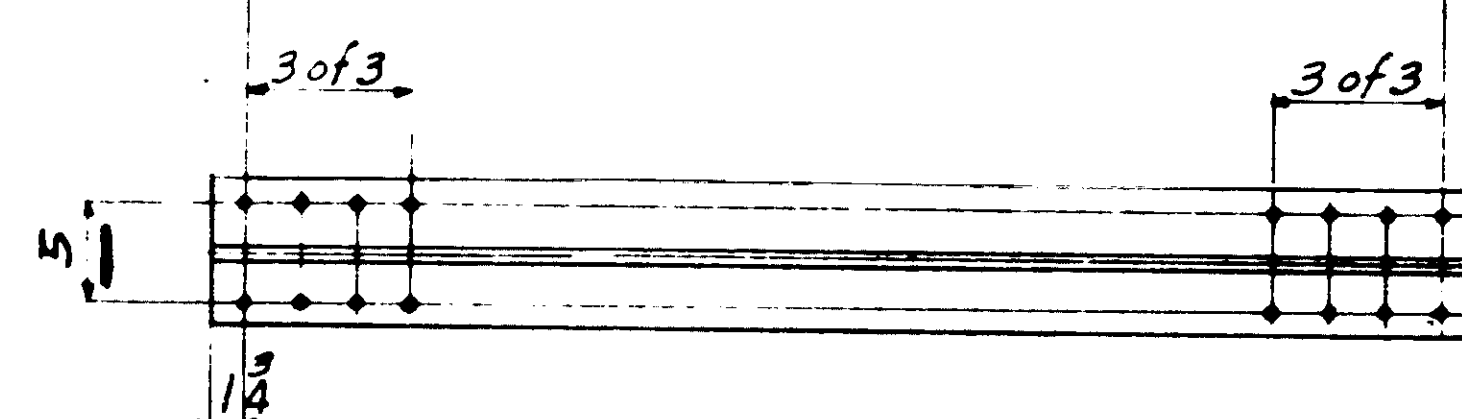
PAINT: YES

105

62-175

D6 12'-8 1/2"
D11 12'-0 3/8"
D12 12'-0 1/8"
D19 12'-4 1/8"

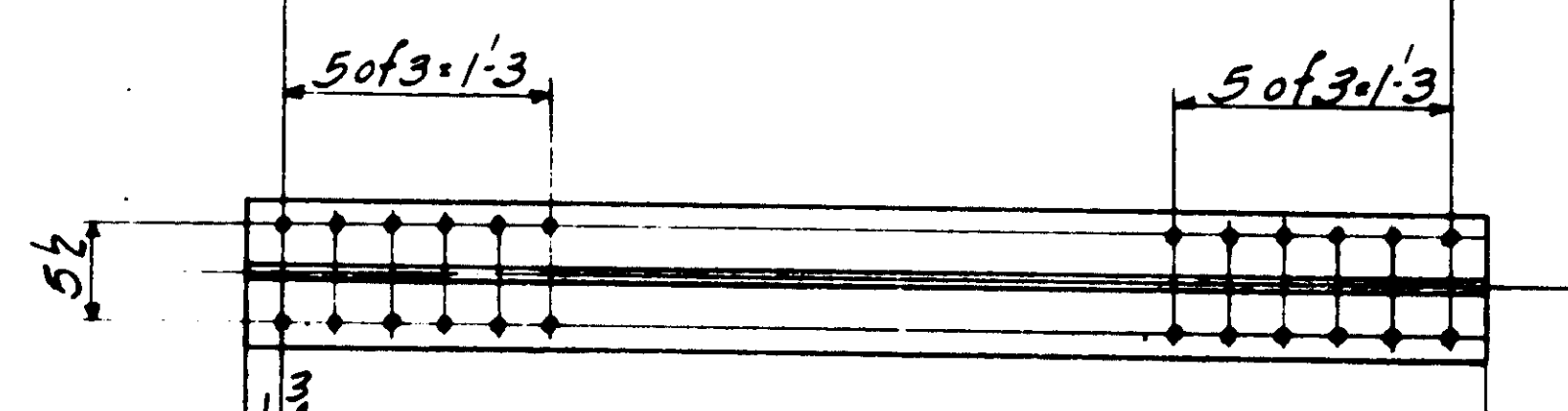
D6 1'-5 7/8" 9'-9 1/2" 1'-5 7/8"
D11 1'-4 3/8" 9'-3 3/8" 1'-4 3/8"
D12 1'-4 3/8" 9'-4 1/8" 1'-4 3/8"
D19 1'-4 1/8" 9'-6 1/8" 1'-4 1/8"



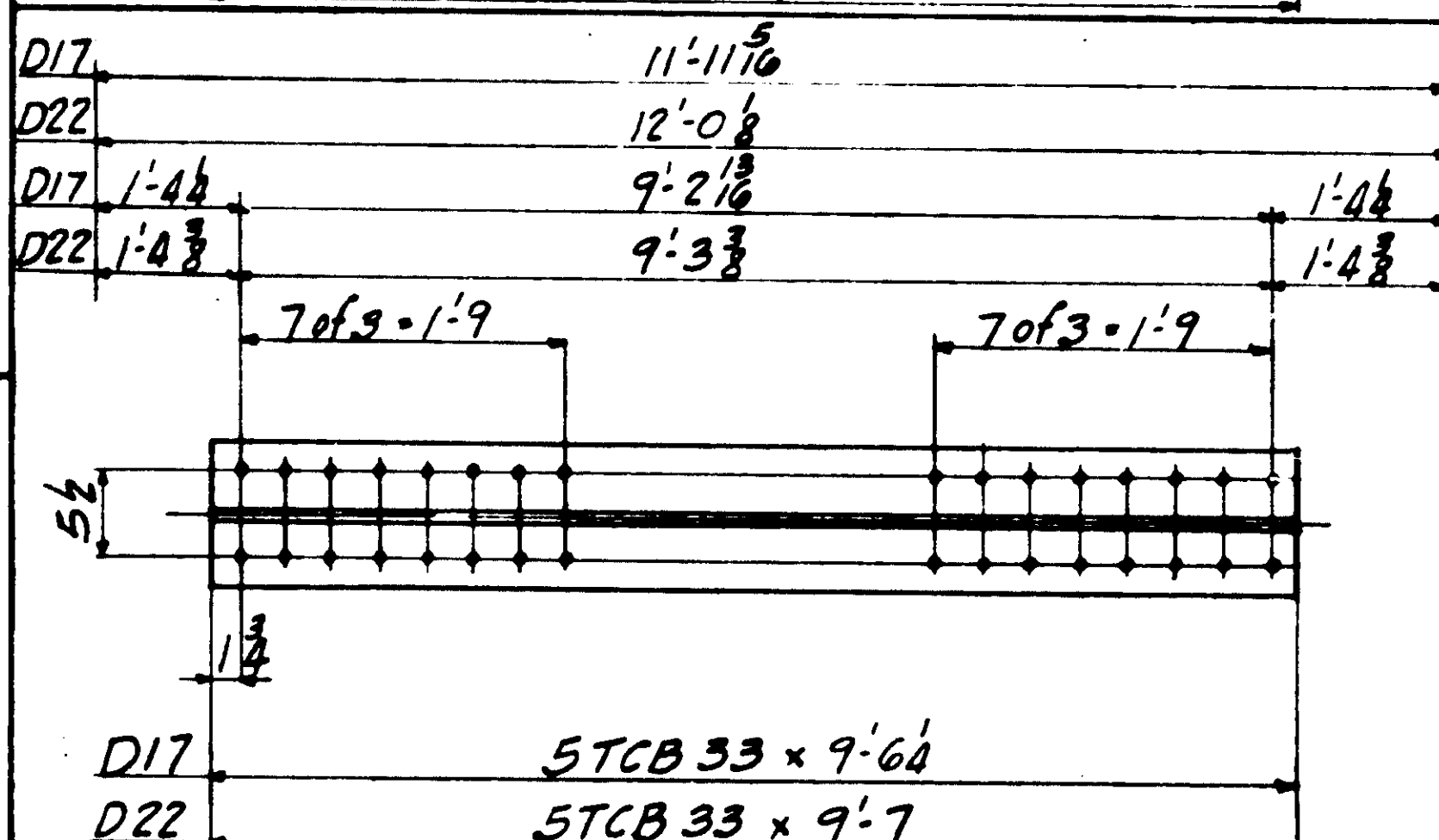
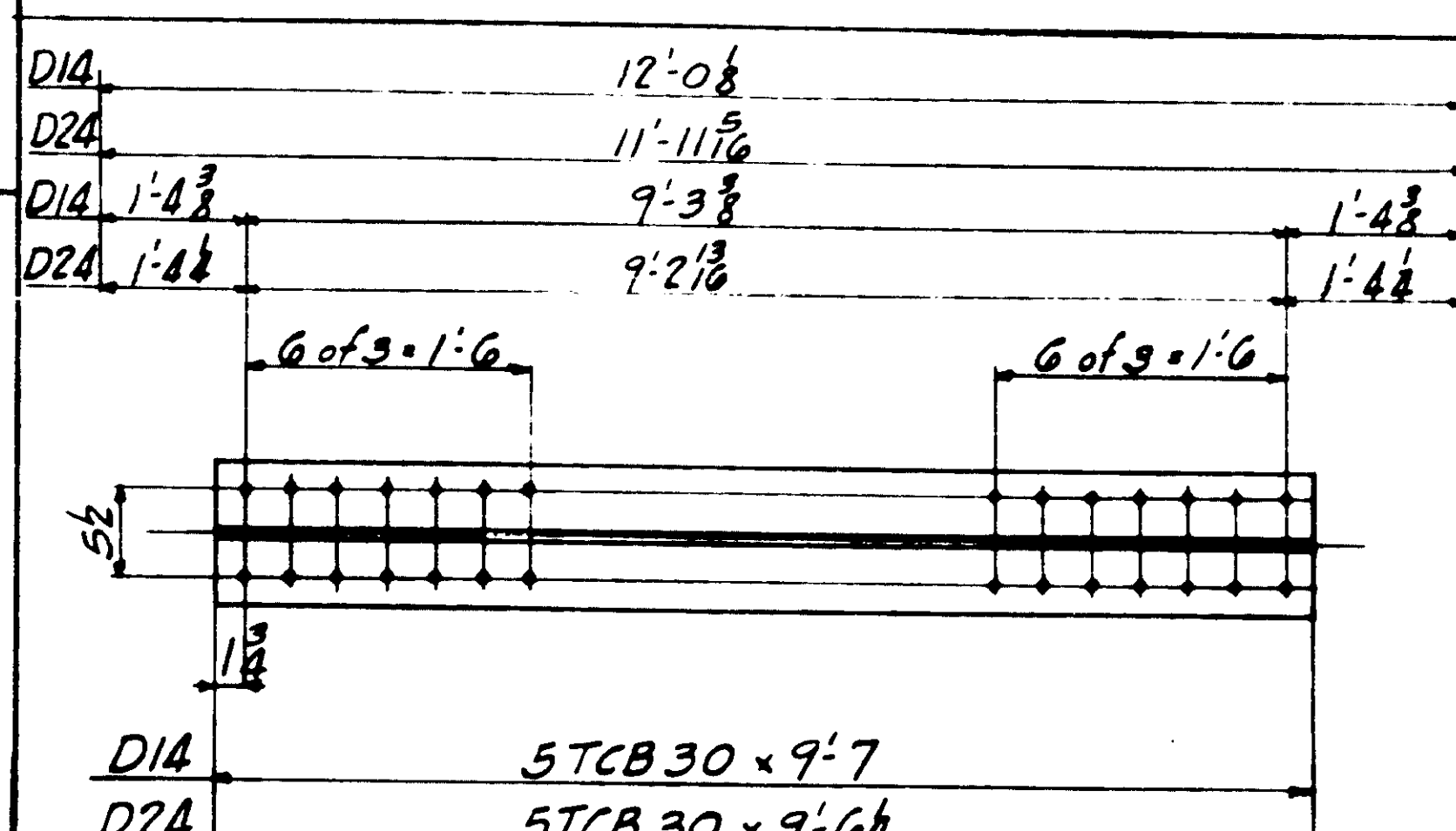
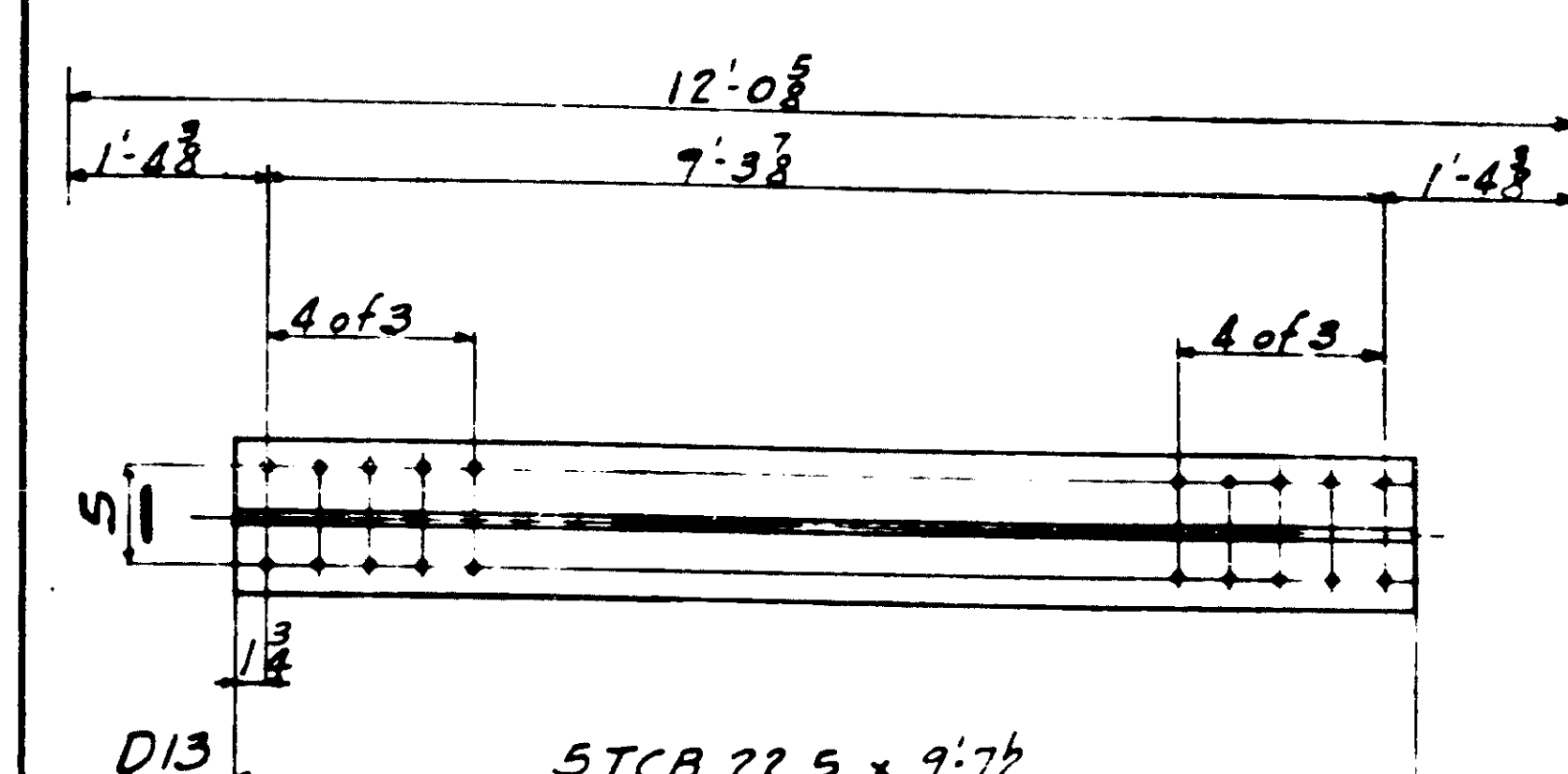
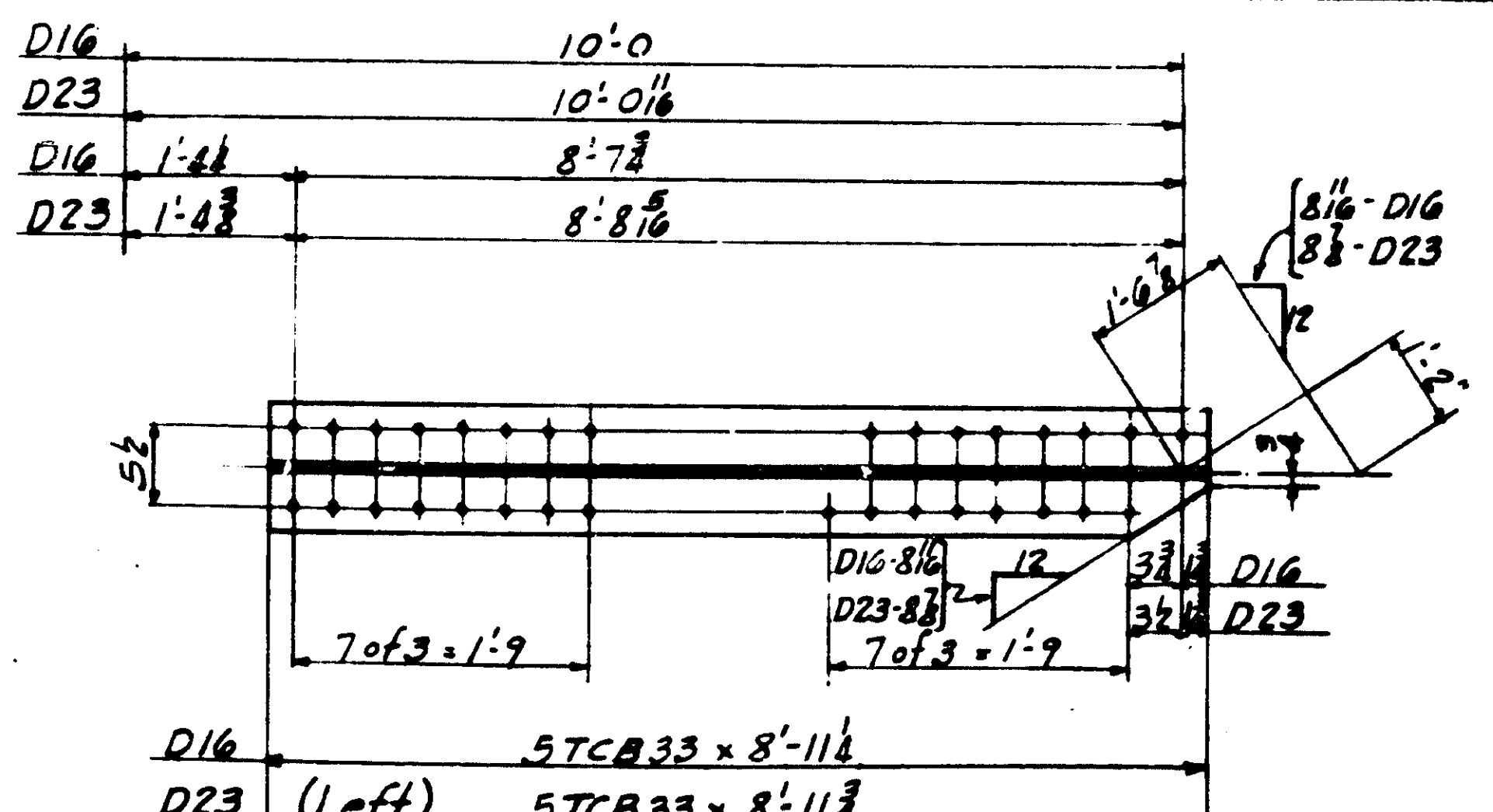
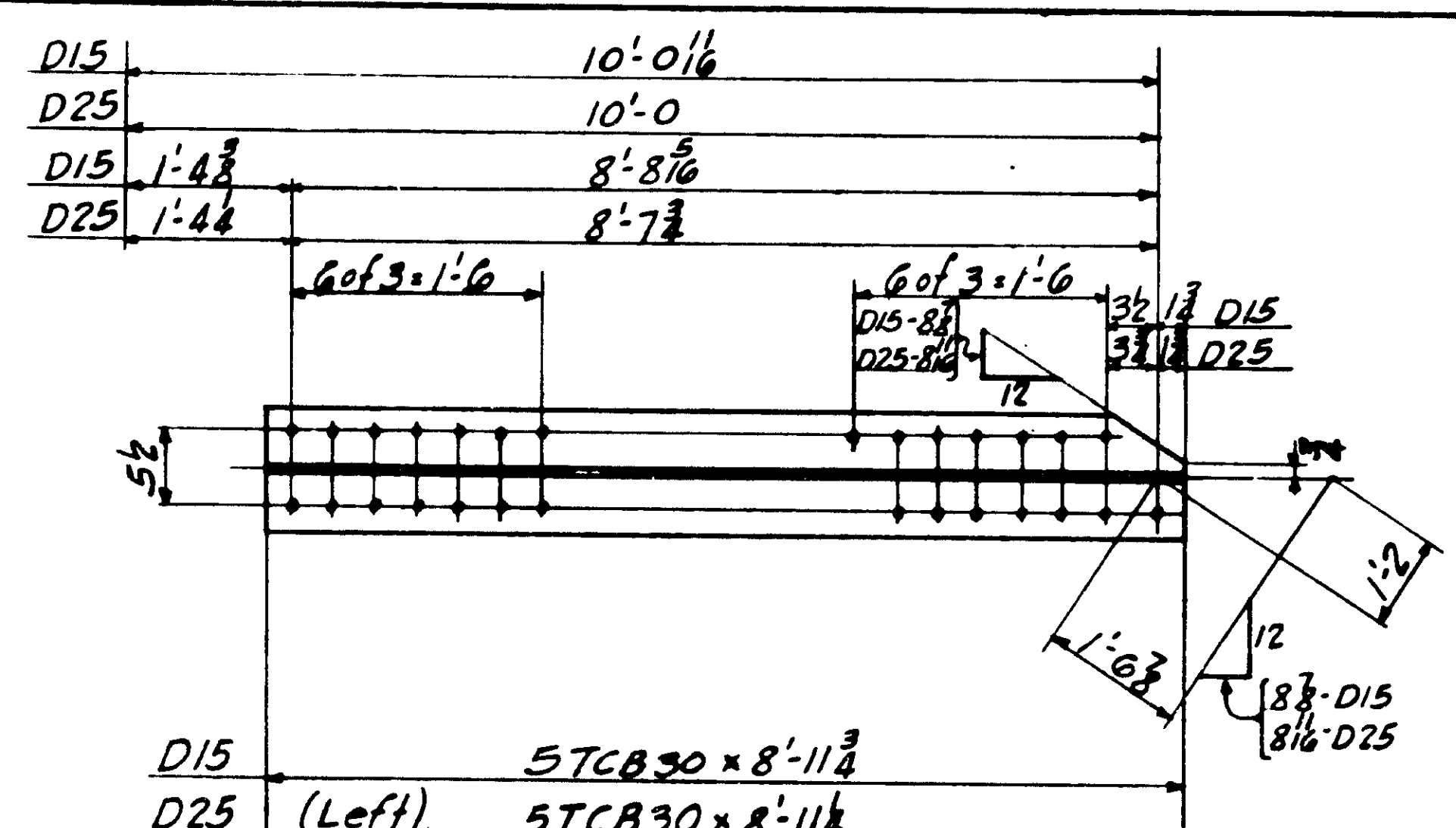
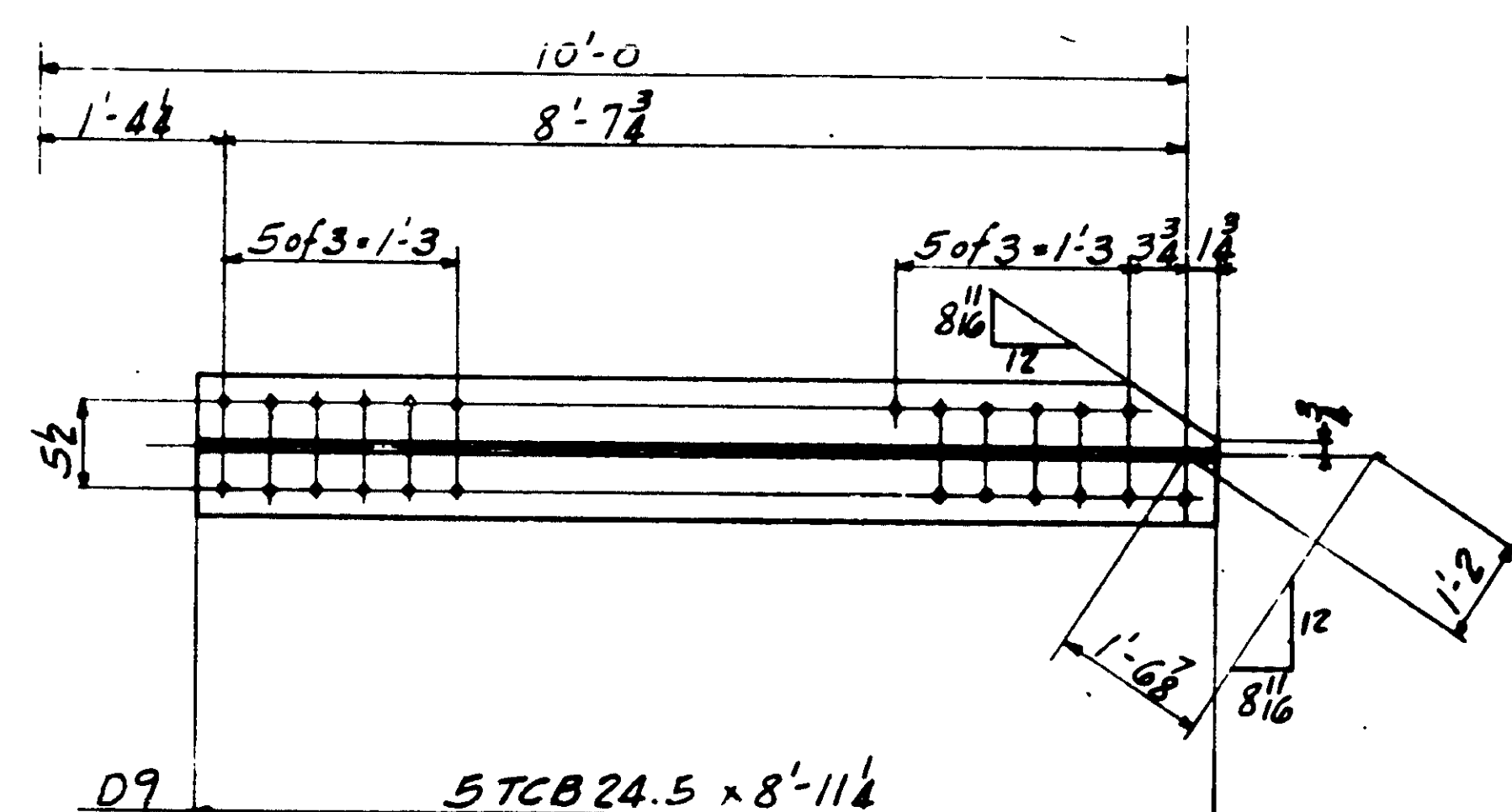
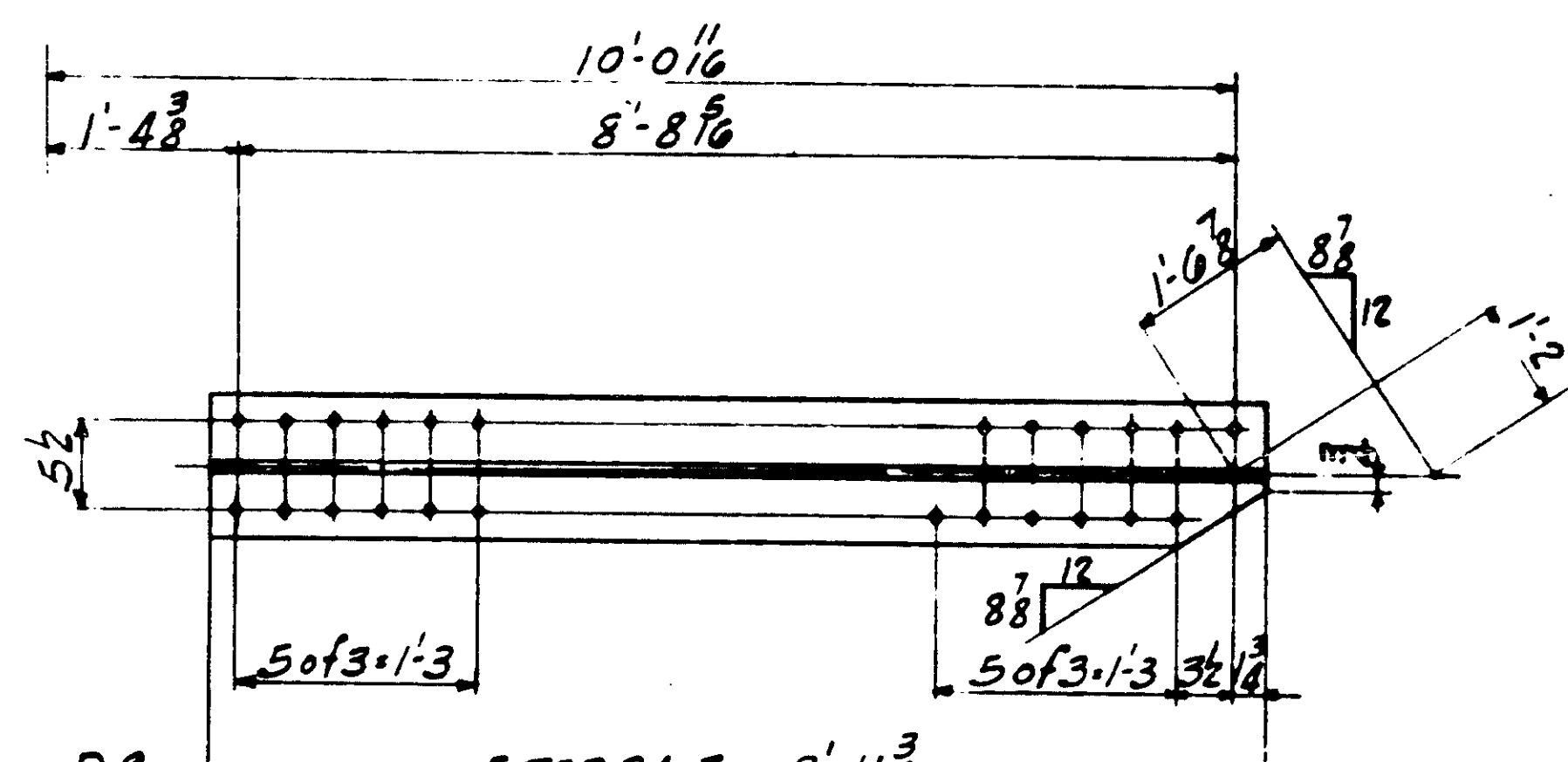
D6 5TCB19.5 x 10'-1 1/2"
D11 5TCB19.5 x 9'-7 1/2"
D12 5TCB19.5 x 9'-7 1/2"
D19 5TCB19.5 x 9'-10"

D7 12'-0 8/16"
D10 11'-11 7/16"
D18 12'-4 1/8"

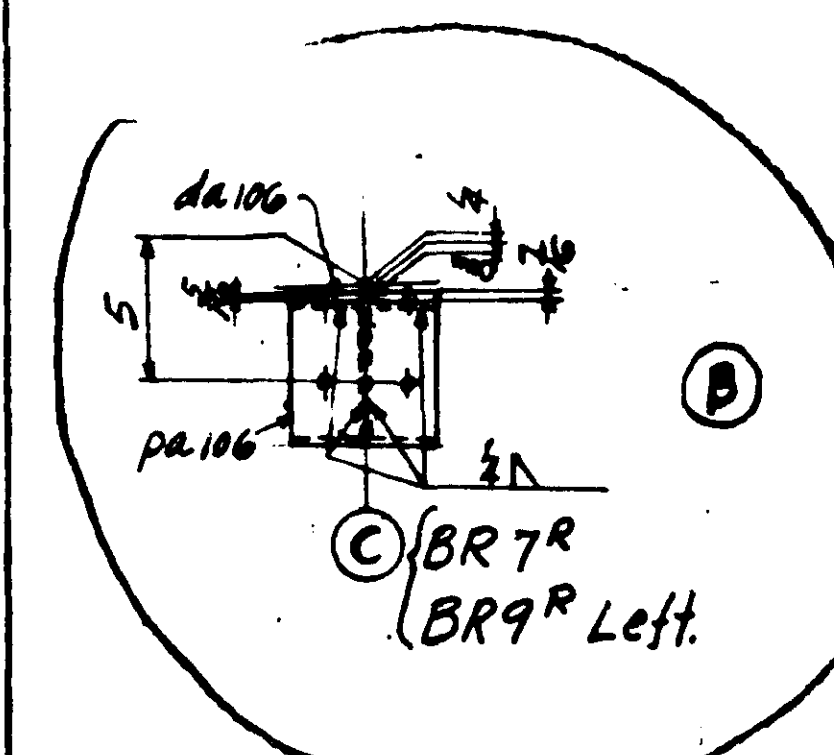
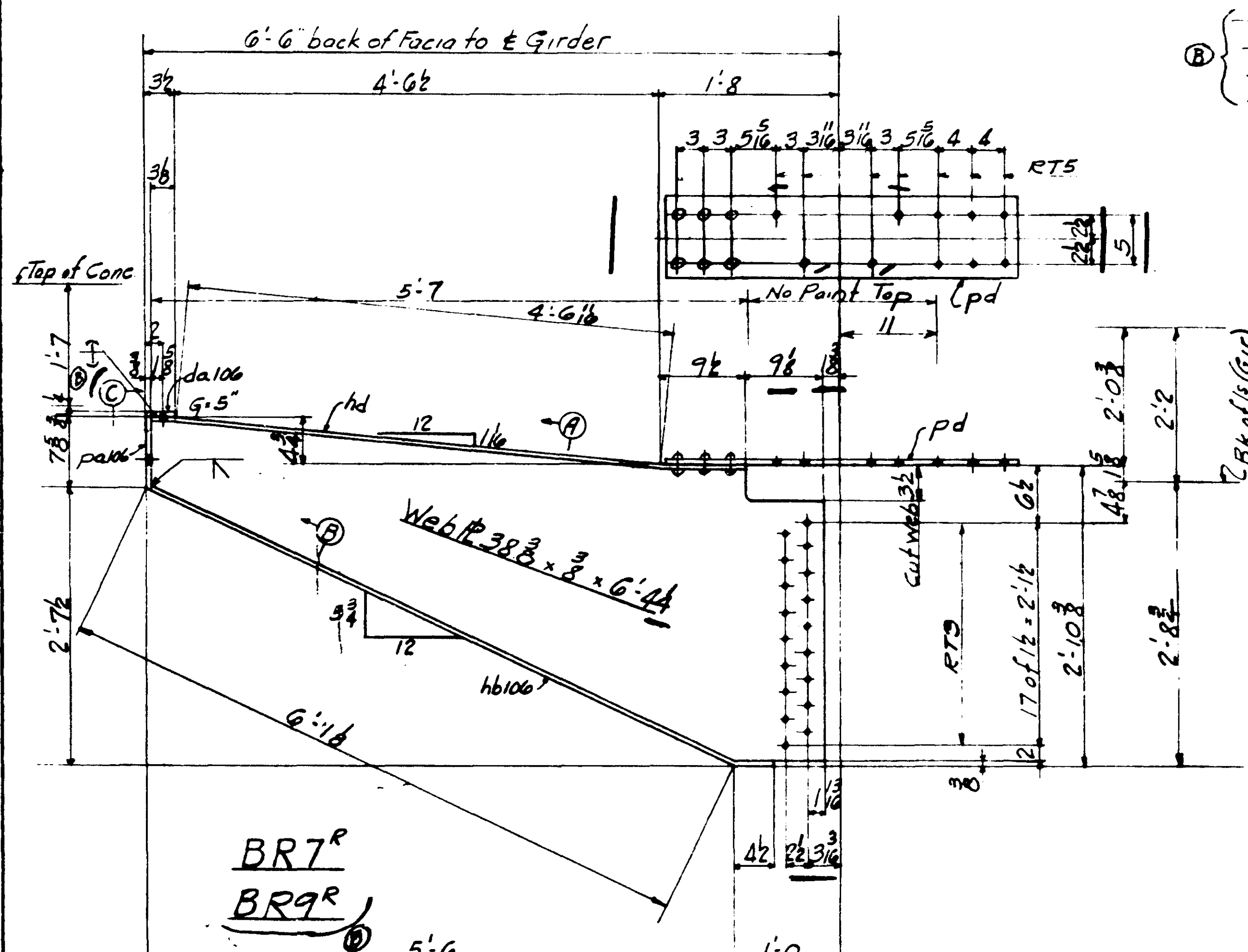
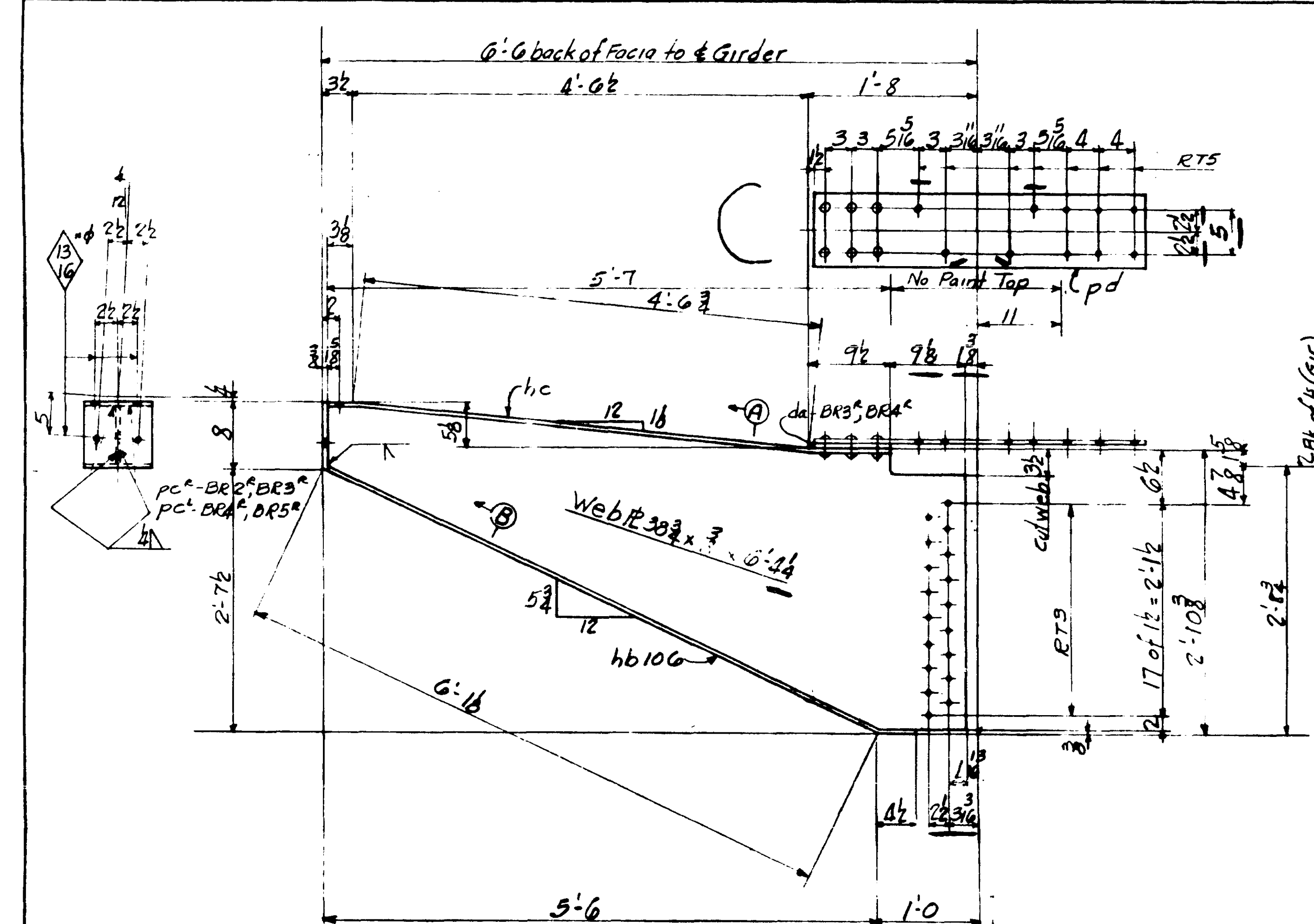
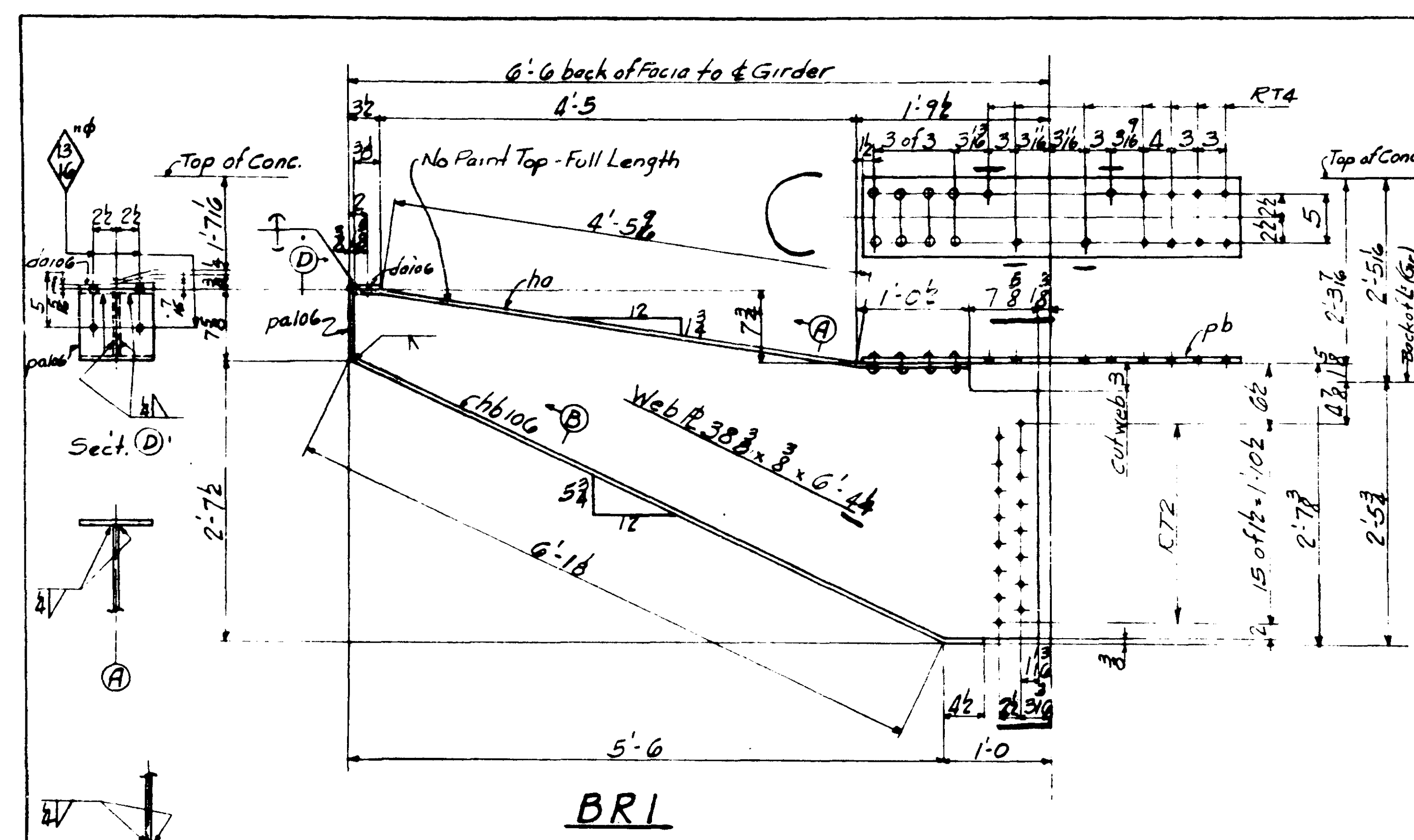
D7 1'-4 3/8" 9'-3 3/8" 1'-4 3/8"
D10 1'-4 3/8" 9'-2 1/8" 1'-4 3/8"
D18 1'-4 1/8" 9'-6 1/8" 1'-4 1/8"



D7 5TCB 24.5 x 9'-7"
D10 5TCB 24.5 x 9'-6 1/4"
D18 5TCB 24.5 x 9'-10"



LINE	ITEM	MATERIAL	LENGTH	WEIGHT	REMARKS	QUANTITY	WEIGHT	REMARKS	QUANTITY
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NOTES:
 SPECIFICATIONS: MAINE STATE HIGHWAY COMMISSION 1945
 AND SPECIAL PROVISIONS
 MATERIAL: O.H. STEEL A.S.T.M. A7-62T
 HOLES: 1/2" UNLESS NOTED
 RIVETS: 8
 WORKMANSHIP: HOLES MARKED RT TO BE SUBPUNCHED
 OR SUBDRILLED 1/4" AND REAMED TO SIZE TO A
 METAL TEMPLATE
 PAINT: YES, EXCEPT AS NOTED
 SHOP CONTACT SURFACES: NO

SIDEWALK BRACKETS

STATE OF MAINE
 STATE HIGHWAY COMMISSION
 BANGOR-BREWER BRIDGE
 OVER PENOBSCOT RIVER
 BANGOR, MAINE

AMERICAN BRIDGE

DRAWINGS MADE AT TEENTON PLANT
 WORK FABRICATED AT BANGOR PLANT
 IN CHARGE OF E.B. MARKS

DRAW. MADE BY: G.H.P. DATE: 7-29-53
 CHECKED BY: J.C.P. DATE: 7-15-54

ORDER No. Q4150 SHEET No. 106

AMERICAN BRIDGE

UNITED STATES STEEL COMPANY

LINE	ITEM	QUANTITY	UNIT	DESCRIPTION	REMARKS	ORDERED	DATE
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DIVISIONS

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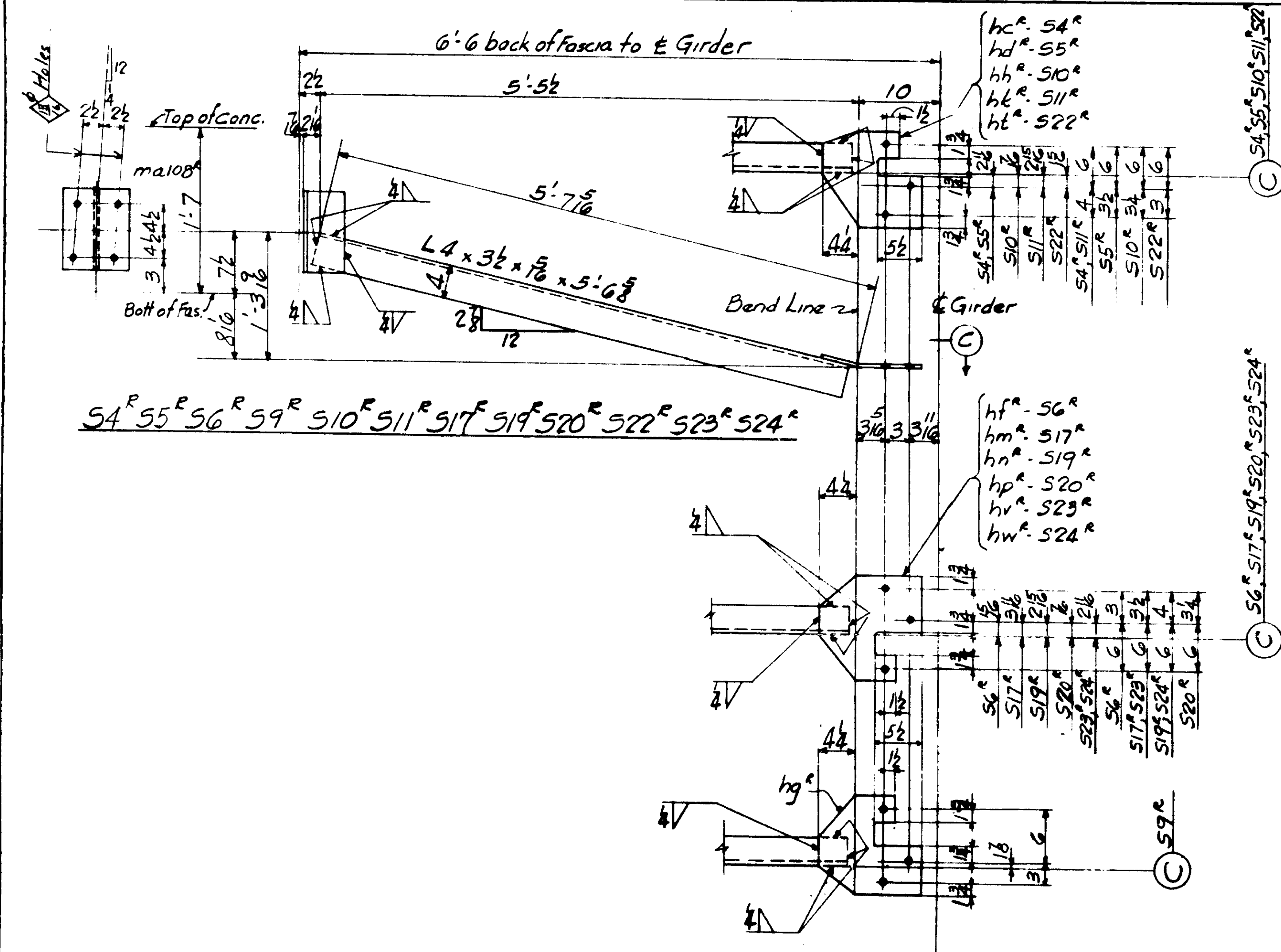
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Notes:
 Specifications: Maine State Highway Commission, 1945
 & Special Provisions
 Material: 0.4 Steel ASTM A7-52T
 Rivets: 5/8"
 Holes: 1 1/2" unless noted
 Workmanship:
 Holes marked RT to be subpunched or subdrilled
 & reamed to size to a metal template.

Paint: Yes, except as noted
Shop Contact Surfaces: No

LINE	Qty No. of Units	MATERIAL	WEIGHT Pcs. Lbs.	ANNEAL BLUES BLUES	REMARKS	COSTS		CALCULATED WELDED FOR COST PER Pcs.
						UNIT	PRICE	
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SIDE WALK BRACKETS & STRUTS

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR BREWER BRIDGE
OVER PENOBSCOT RIVER
BANGOR, MAINE

ESTABLISHED 18-21 0001 10-0
AMERICAN BRIDGE

DRAWINGS MADE AT TRENTON PLANT

WORK FABRICATED AT AMBRIDGE PLANT

IN CHARGE OF EB MARKS

DRAW. MADE BY JAC DATE 9-30-53

DRAW. CHECKED BY W.F. PRY DATE 2-15-54

ORDER No. 0450

SHEET No. 124

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Page 107

Weld.

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AMERICAN BRIDGE COMPANY

LINE	ITEM	QUANTITY	UNIT	REMARKS	ORDERED	ITEM	QUANTITY	UNIT	REMARKS
1	ONE STRUT S1	1				1	ONE STRUT S1	1	
2	ONE STRUT S2	1				2	ONE STRUT S2	1	
3	ONE STRUT S3	1				3	ONE STRUT S3	1	
4	ONE STRUT S4	1				4	ONE STRUT S4	1	
5	ONE STRUT S5	1				5	ONE STRUT S5	1	
6	ONE STRUT S6	1				6	ONE STRUT S6	1	
7	ONE STRUT S7	1				7	ONE STRUT S7	1	
8	ONE STRUT S8	1				8	ONE STRUT S8	1	
9	ONE STRUT S9	1				9	ONE STRUT S9	1	
10	ONE STRUT S10	1				10	ONE STRUT S10	1	
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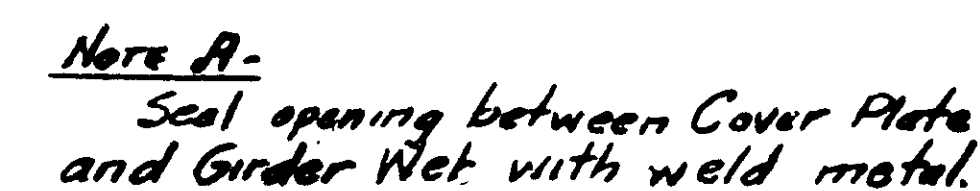
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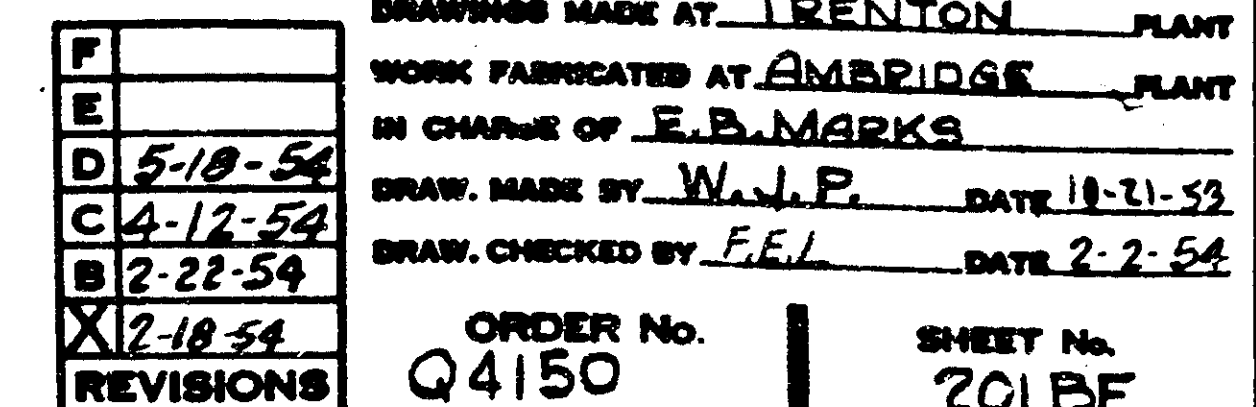
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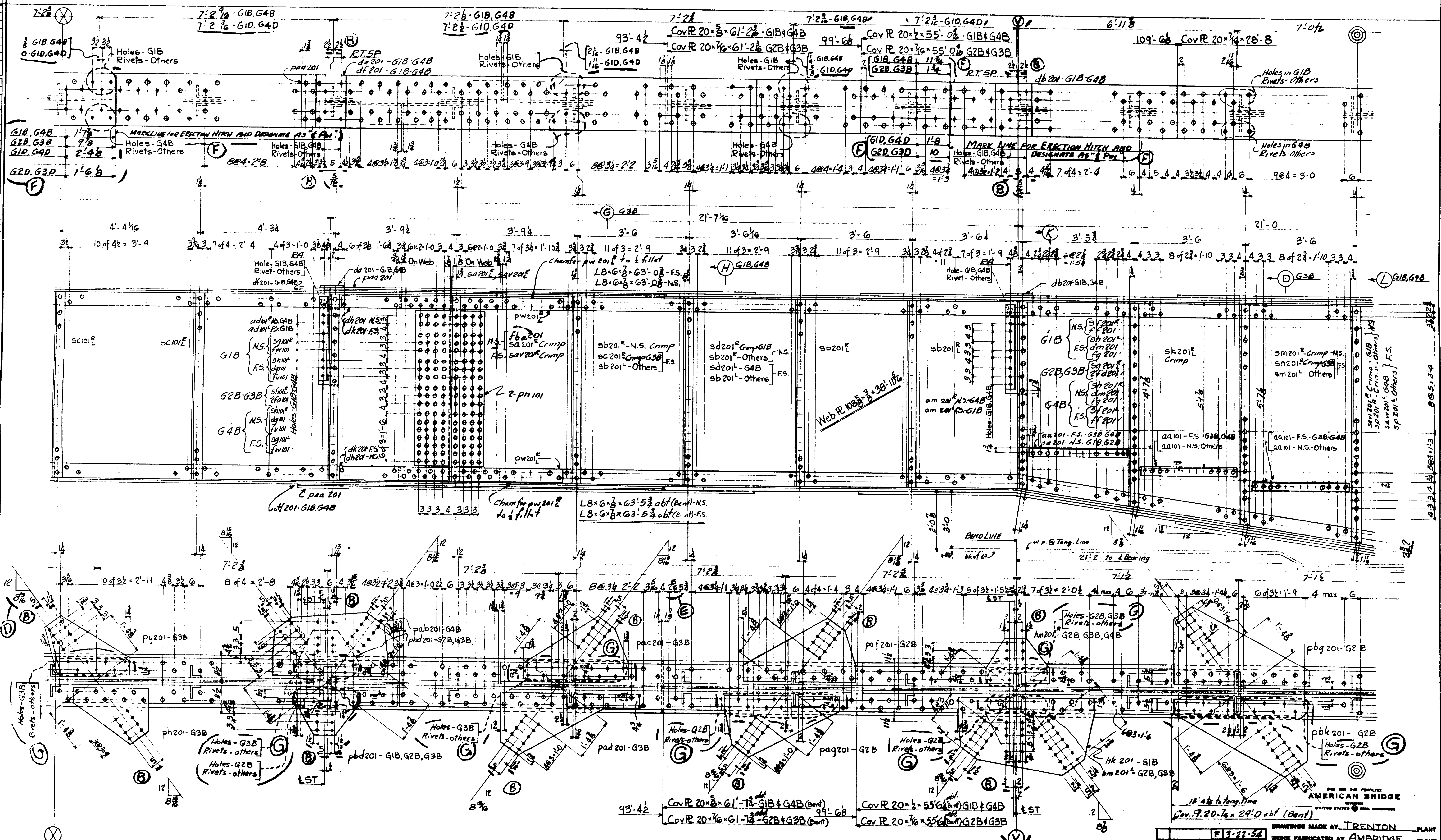


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B	2-22-50
X	2-18-54
REVISION	



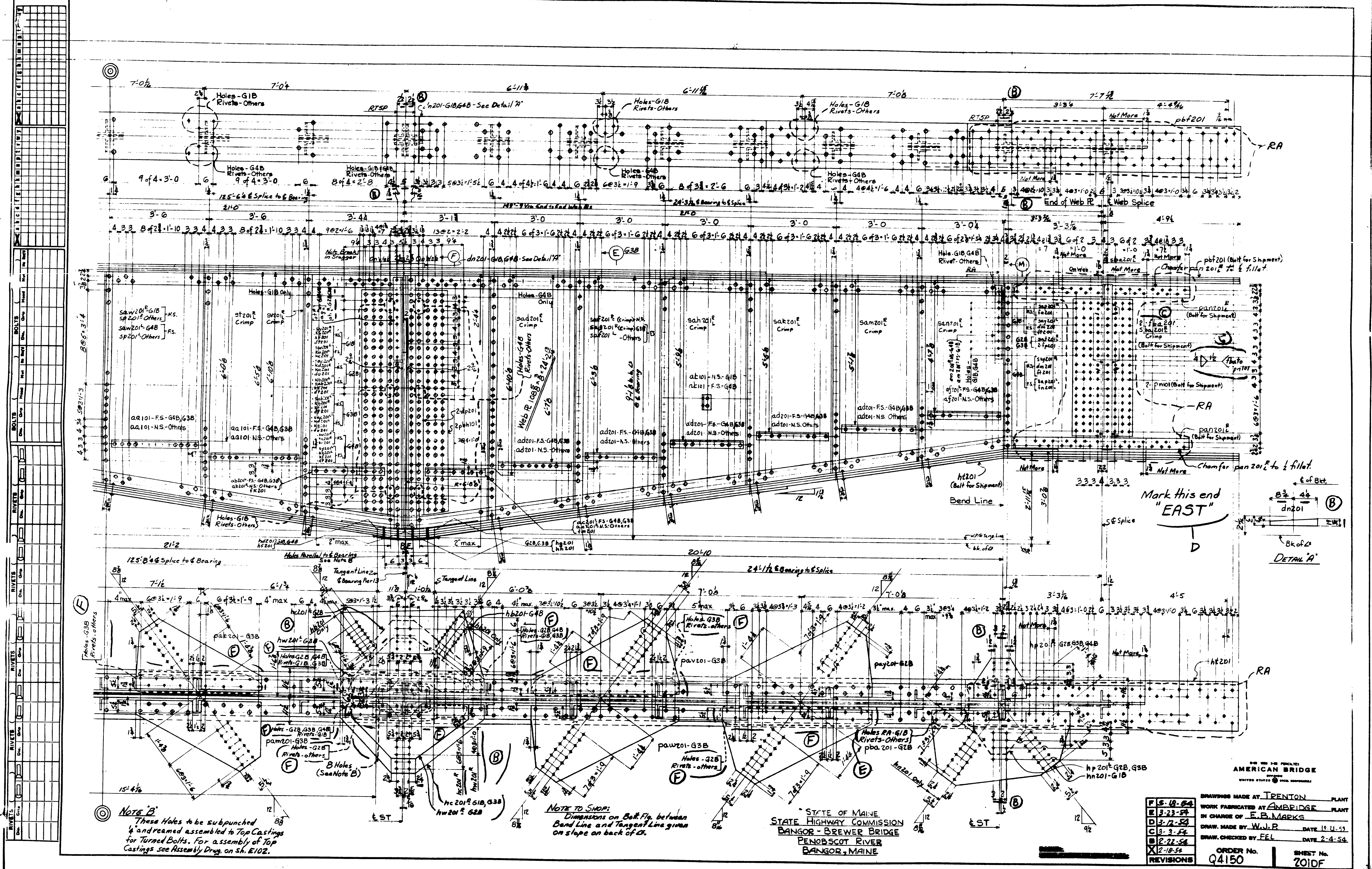
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STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

REVISIONS	ORDER No. Q4150	SHEET No. 201CF
F 3-22-54	WORK FABRICATED AT TRENTON PLANT	
E 3-18-54	IN CHARGE OF E.B. MARKS	
D 3-18-54	DRAWN BY W.J.P.	DATE 10-31-53
C 3-3-54	DRAWN CHECKED BY FEL	DATE 2-3-54
B 2-22-54		
A 12-18-54		

2182



NOTE 'B'
These Holes to be subpunched &reamed assembled to Top Castings for Turned Bolts. For assembly of Top Castings see Assembly Draw. on Sh. E102.

NOTE TO SHOP:
Dimensions on Bolt Flg. between Bend Line and Tangent Line given on slope on back of C.

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

Mark this end
"EAST"
D

DRAWINGS MADE AT TRENTON		PLANT
WORK FABRICATED AT AMBRIDGE		PLANT
IN CHARGE OF E.B. MARKS		
DRAW. MADE BY W.J.B.		DATE 10-31-53
DRAW. CHECKED BY F.E.L.		DATE 2-4-54
ORDER No. Q4150		SHEET No. 201DF

REVISIONS

1	2-22-54	
2	2-22-54	
3	2-22-54	
4	2-22-54	

UNITED STATES GOVERNMENT

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STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR - MAINE

DRAWINGS MADE AT TRENTON PLANT

WORK FABRICATED AT AMBRIDGE PLANT

IN CHARGE OF E. B. MARKS

DRAWN MADE BY W. J. P. DATE 10-7-52

DRAWN CHECKED BY **FEL** DATE **3-8-54**

DATE CHECKED BY 1-1 DATE 6-8-87

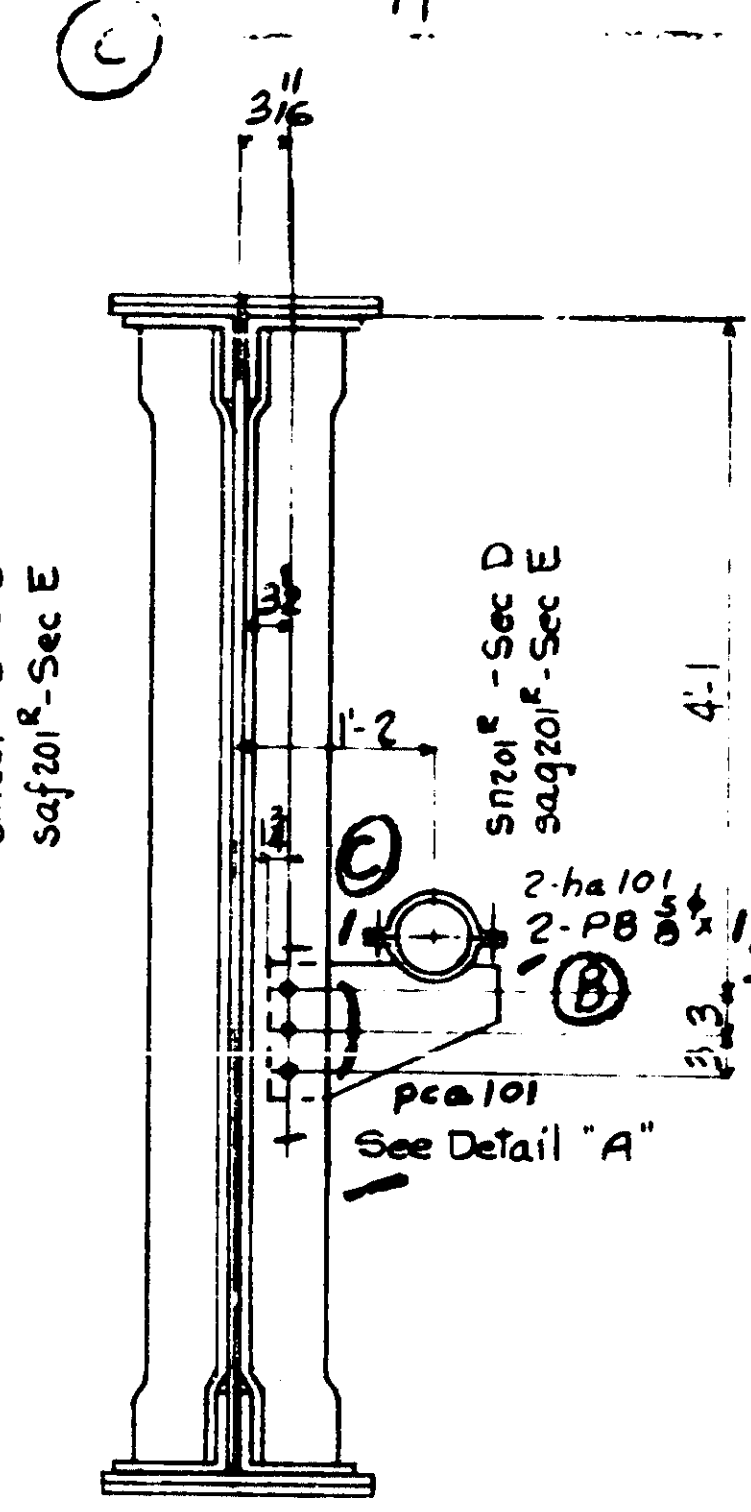
ORDER No. 0450 SHEET No. 01

Q430 201EF

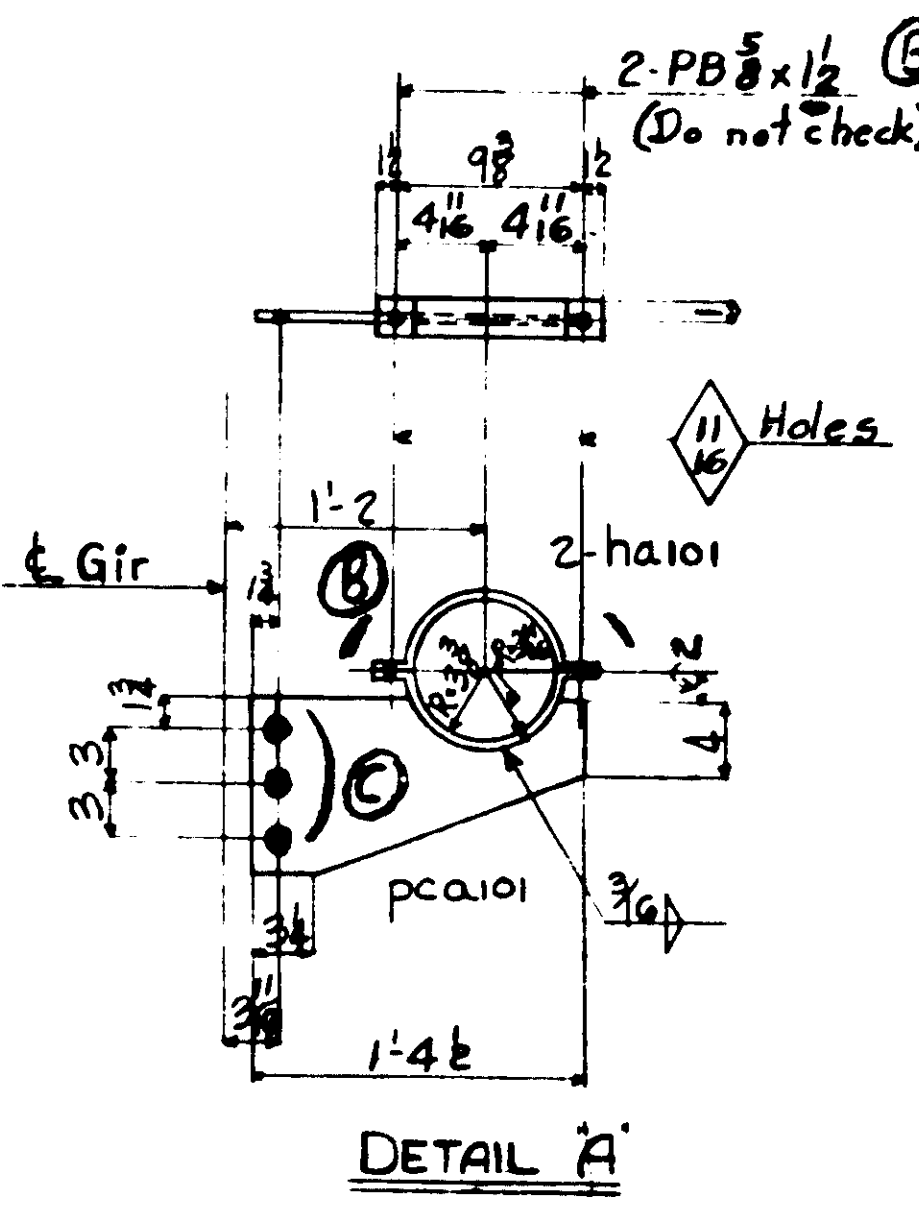
2014702 W.F. DIME

WELDON

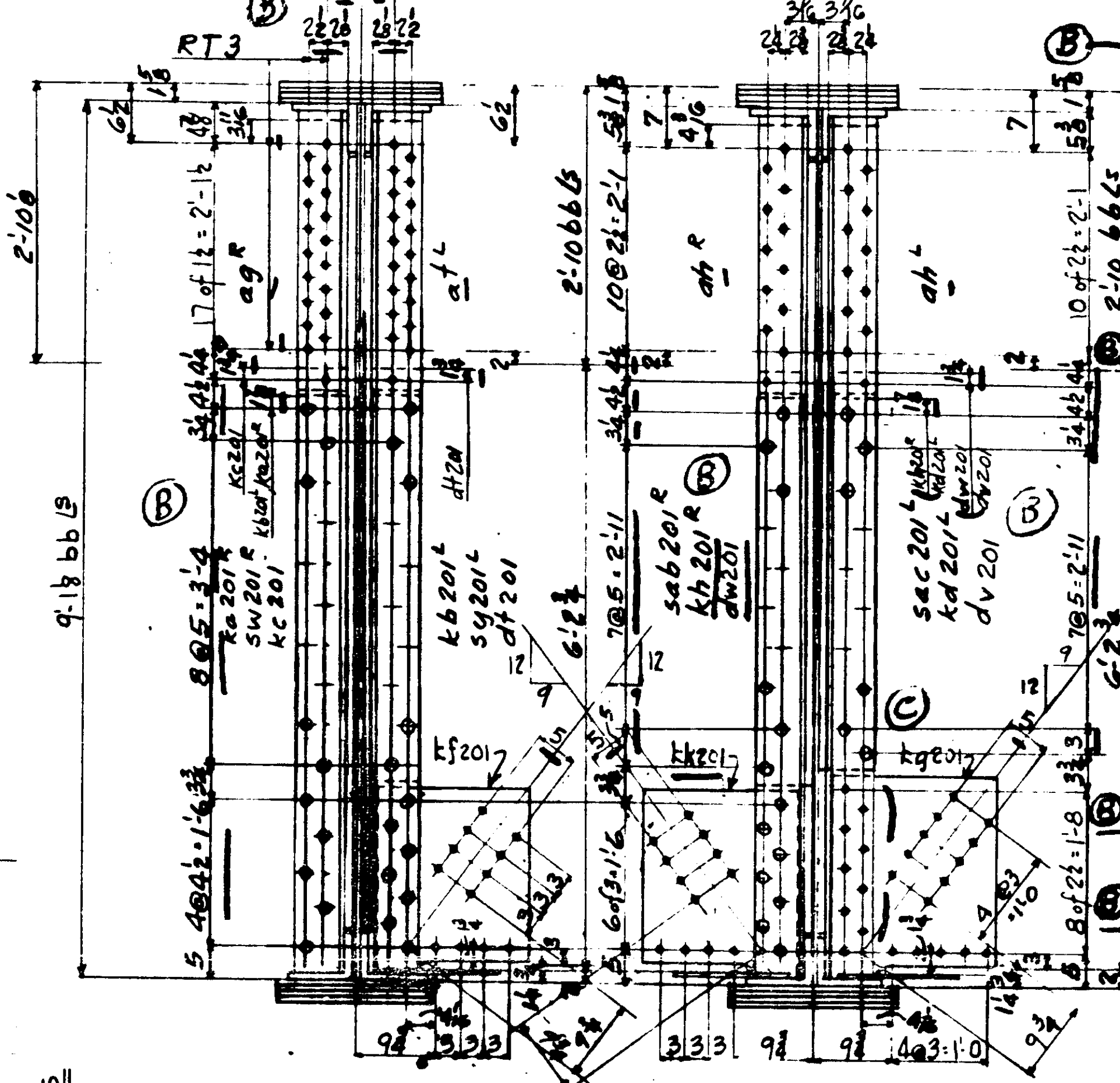
1990



SECTION E-G3B



DETAIL 2

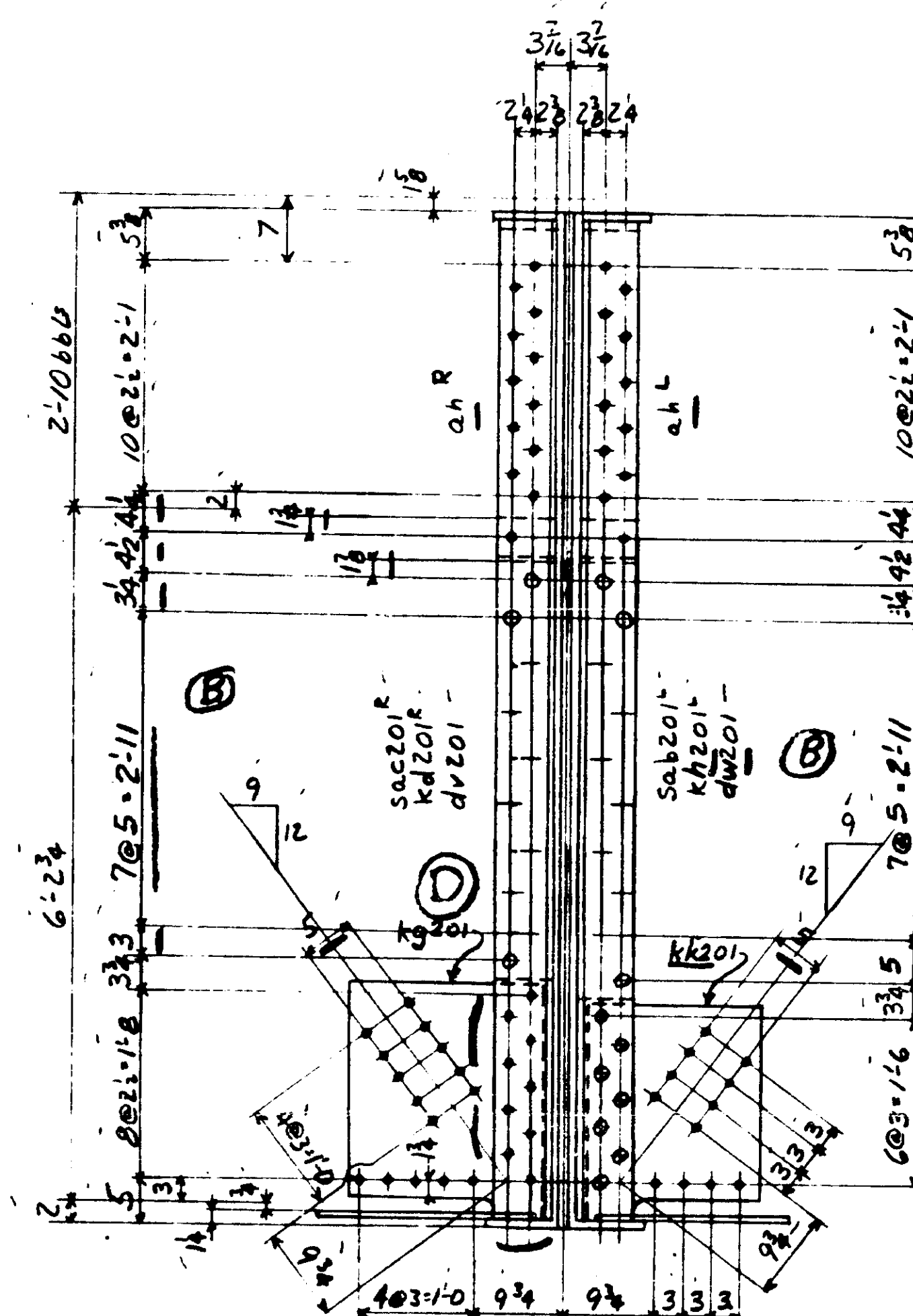
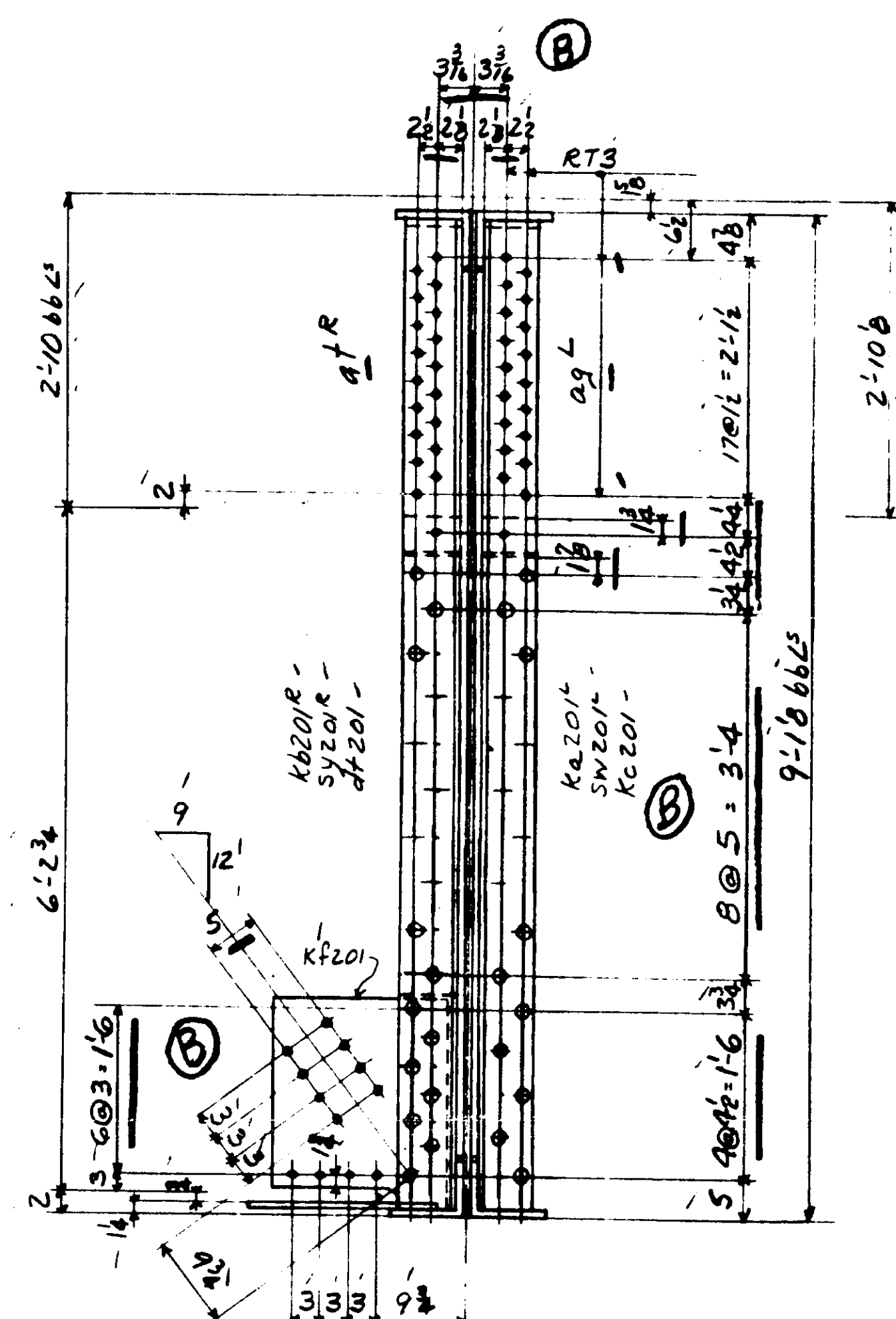
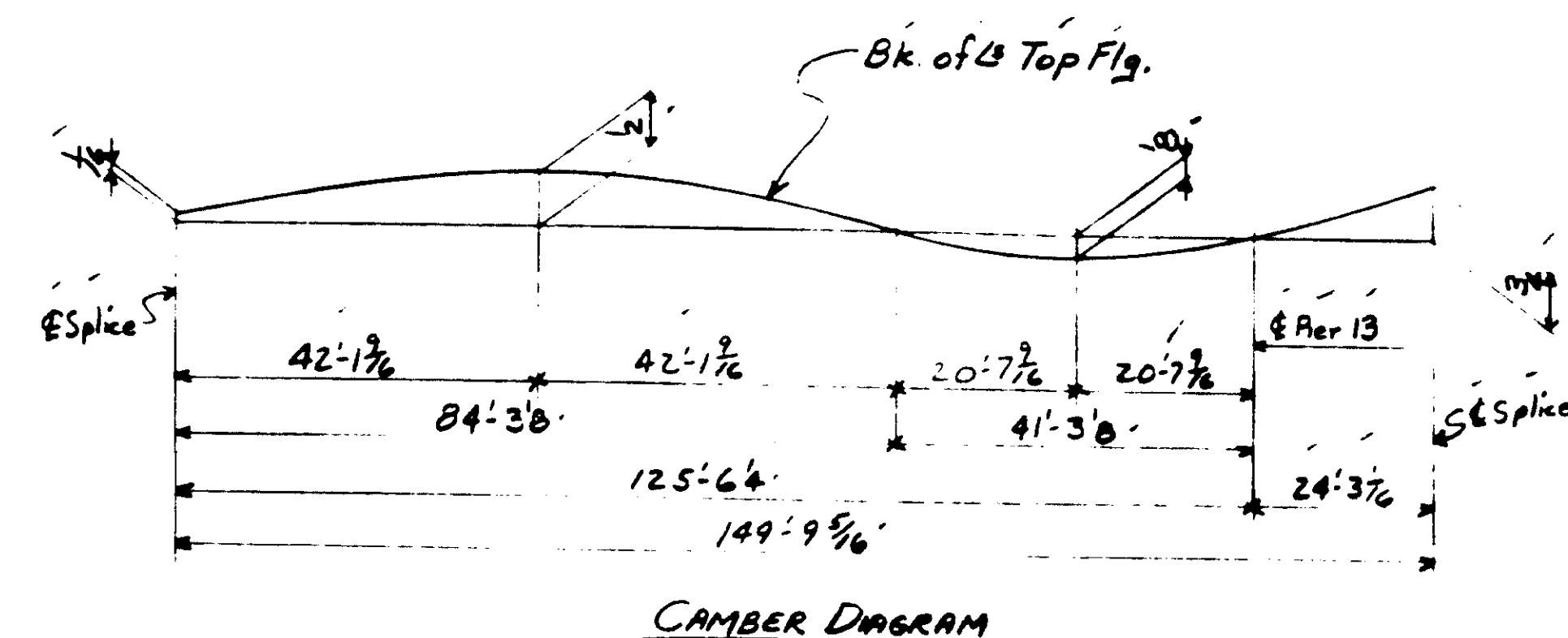
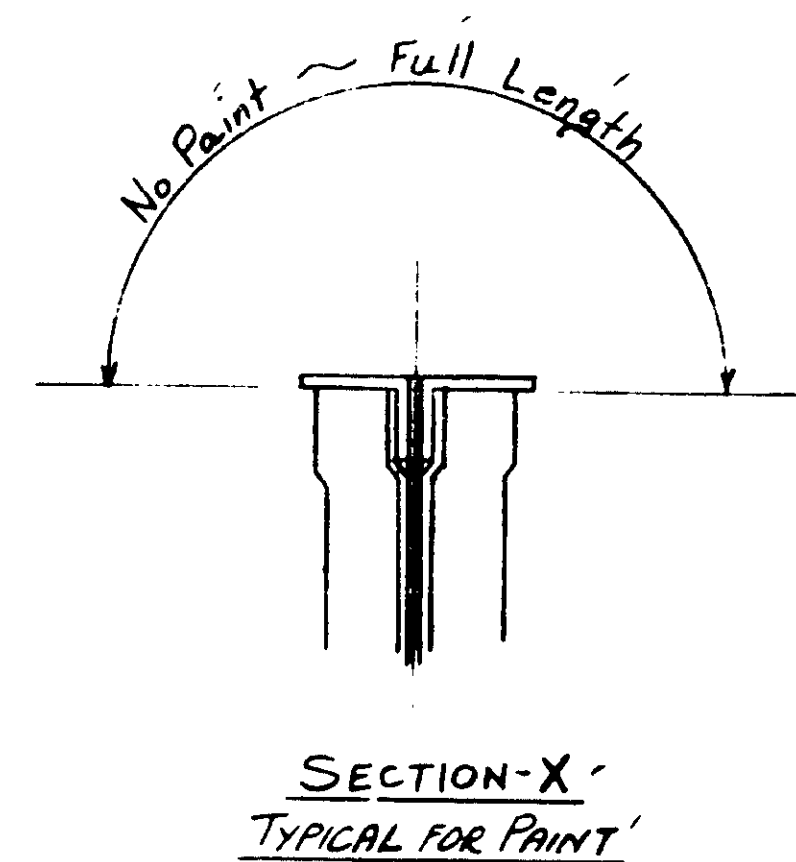
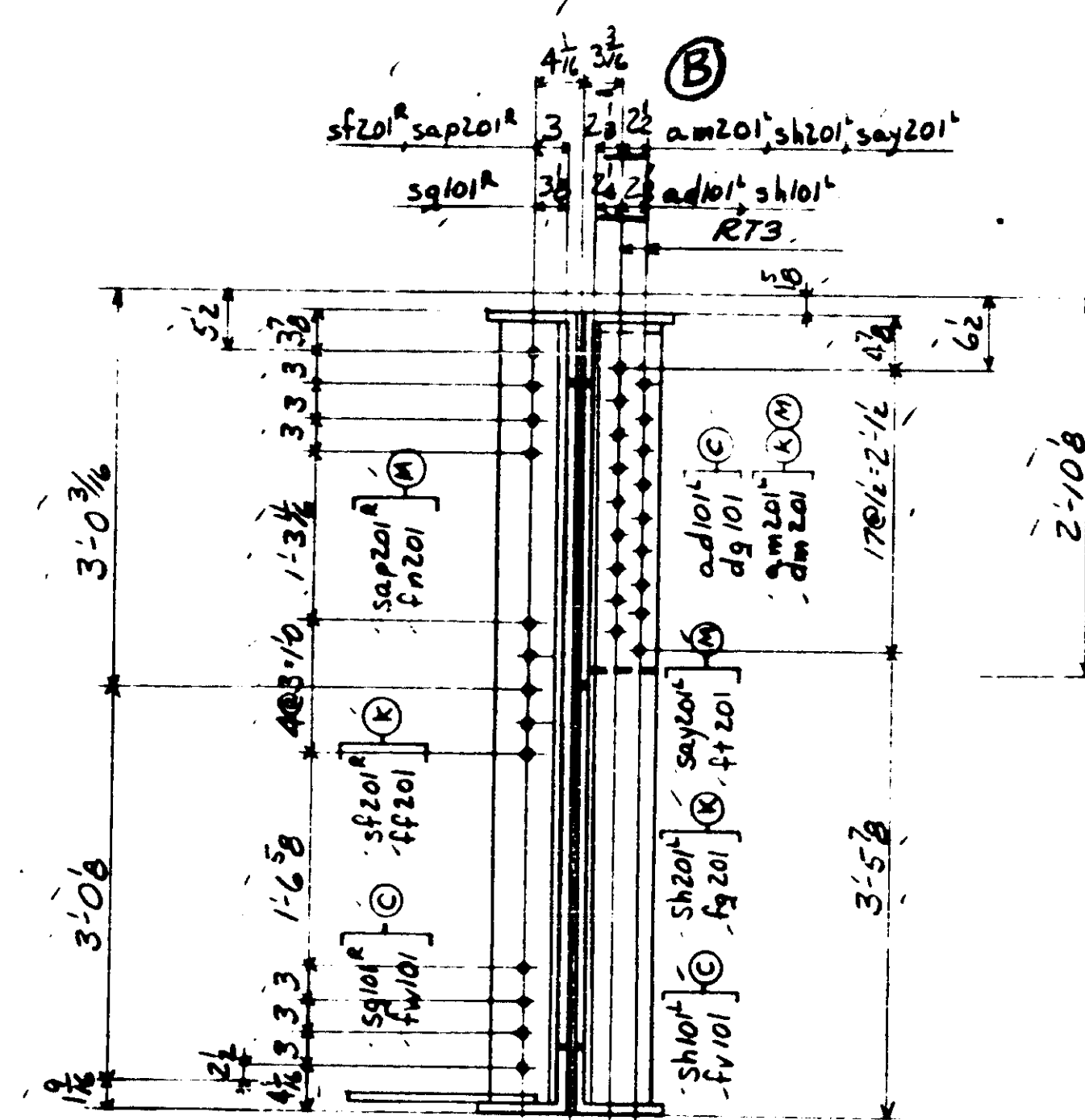


SECTION F - G3

STIEFENER DINGBANE

[illegible]

F	DRAWINGS MADE AT	TRENTON	PLANT
E	WORK FABRICATED AT	AMBRIDGE	PLANT
D	IN CHARGE OF	E. B. MARKS	
C	DRAW. MADE BY	W. J. P.	DATE 10-17-53
B	DRAW. CHECKED BY	FEL	DATE 2-8-54
A	ORDER NO.		SHEET NO.
	04150		201E
	REVISIONS		



NOTES:

SPECIFICATIONS- Maine State Highway Commission 1945 and Special Provisions
MATERIAL- O.H. Steel ASTM A7-52T

MATERIAL-² O.H. Steel ASTM A7-52T

RIVETS - 7/8" HOLES - 1 1/2" Unless Noted

WORKMANSHIP - Holes in material thicker than the diameter of the rivet shall be drilled.

Holes in main material, including holes at splices, in bearing stiffeners, and splice plates to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size.

Holes marked RT to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size to a metal templet.

Holes marked RA to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size while connecting members are assembled.

to cambered position. (See Sheet E102)
Connecting members to be matchmarked

Fillers and splice plates under stiffeners to fit within 'E' of flange angles.

B.E. indicates bearing end of stiffeners.

Yes, Except as shown in Section X.

PAINT-

SHOP CONTACT SURFACES - No

LIFTING WT. = 35 TONS

As Shipped Loose

SHEET 401 WORKS WITH THIS SHEET

[illegible]

Sheet Total = 246881

PAINTED
STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR-BREWER BRIDGE
OVER PENOBSCOT RIVER
BANGOR, MAINE

501 1400-S-01 PENCILTEX
AMERICAN BRIDGE COMPANY
 UNITED STATES STEEL CORPORATION CHICAGO

DRAWINGS MADE AT Trenton PLANT
WORK FABRICATED AT Ambridge PLANT
IN CHARGE OF E.B. Marks
DRAW. MADE BY PRV DATE 2-5-54
DRAW. CHECKED BY FEL DATE 2-8-54

ORDER No.
Q4150

SHEET NO.
201F

44. 201,202

Act. 2012**Act. 2012**

62-105

SECTION C
SECTION D (LEFT)

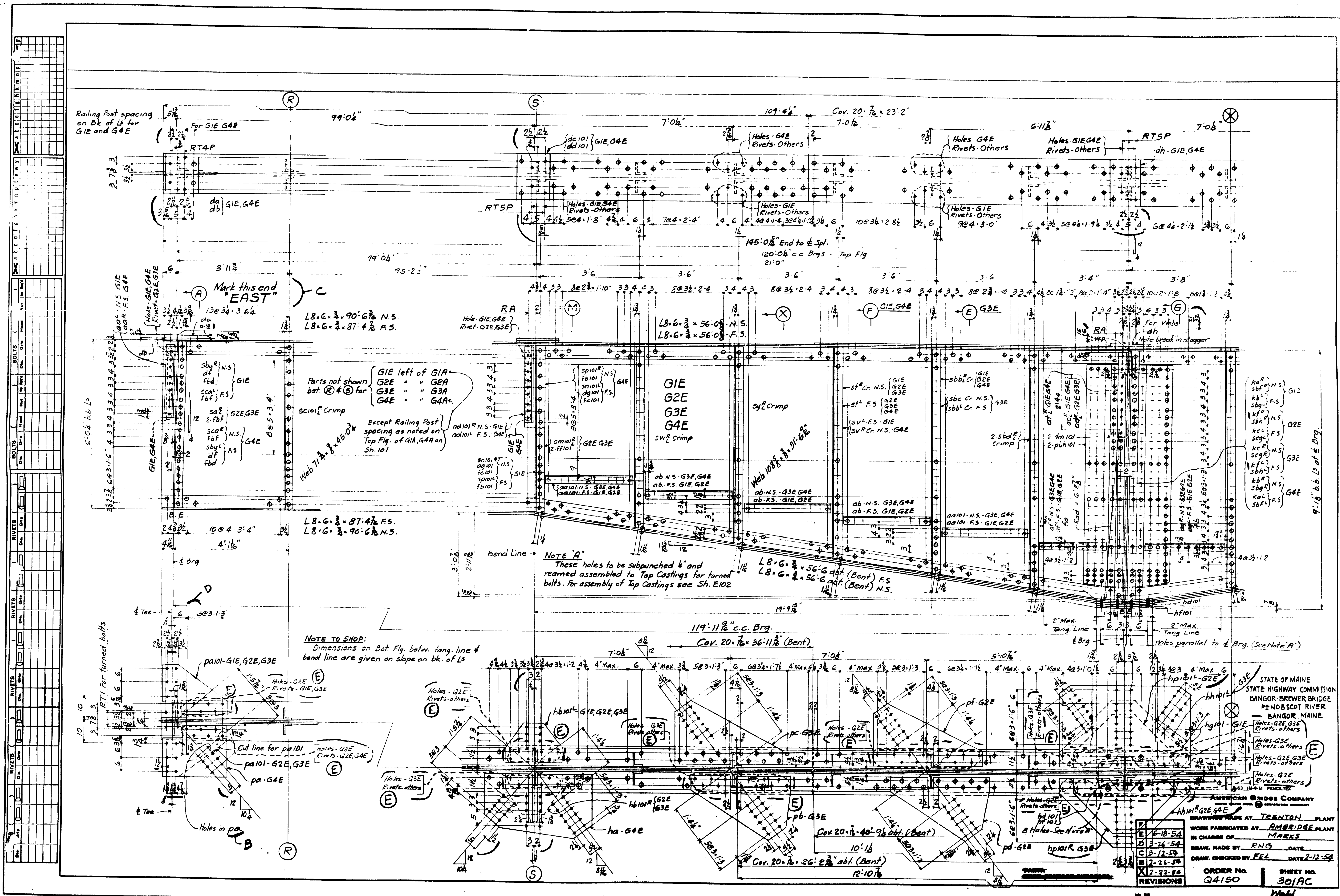
LADDER-L1
LADDER-L2
LADDER-L3

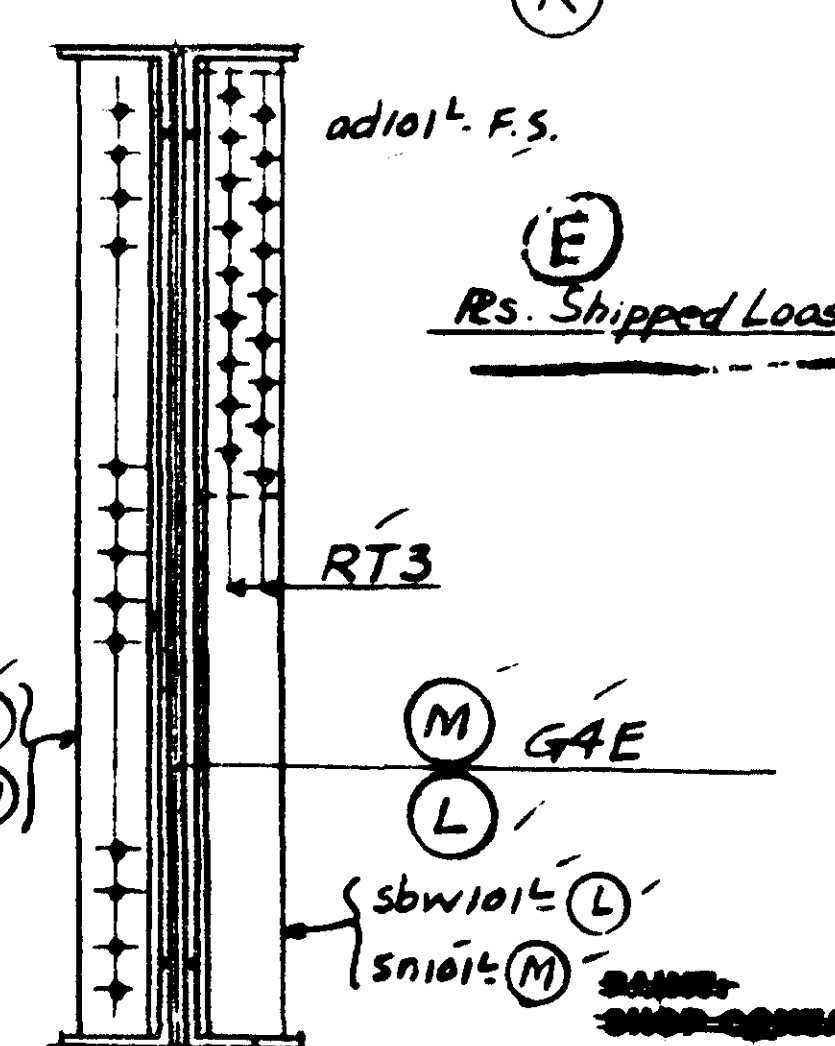
MANHOLE-M4

DETAIL A
DETAIL B
DETAIL E
DETAIL F

NOTES:
 SPECIFICATIONS- Maine State Highway C.
 1905 and Special Provisions
 MATERIAL- O.H. Steel- ASTM A7-52
 HOLES- $\frac{1}{8}$ " Unless Noted
 PAINT- Yes, Except as noted
 Shop Contact Surfaces- No

203





STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

DBI 1000-S-5 PERCUTEX
AMERICAN BRIDGE COMPANY
 UNITED STATES STEEL  CORPORATION COLUMBIA

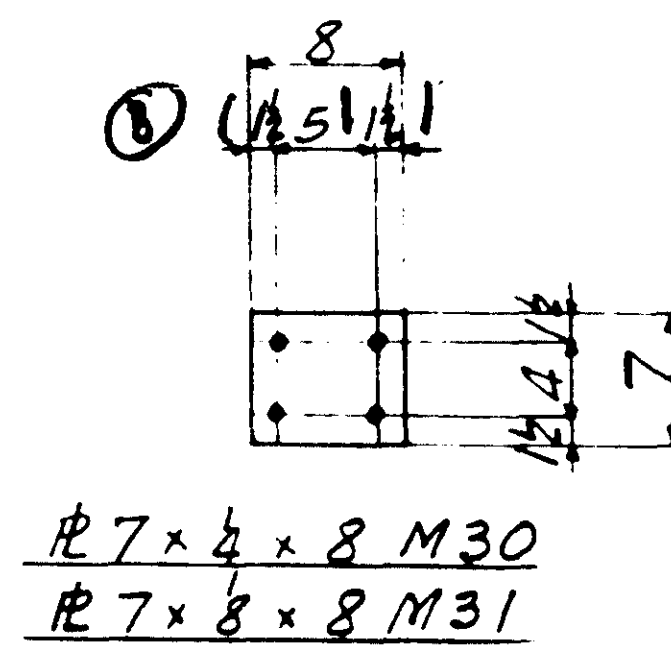
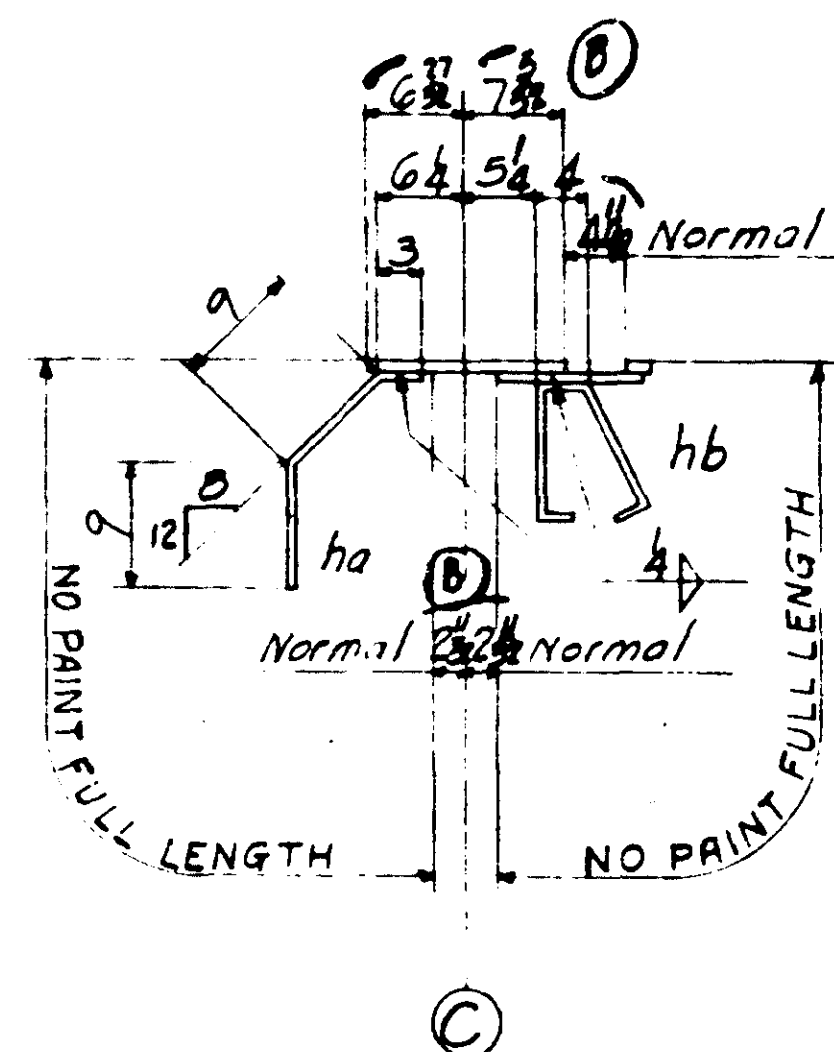
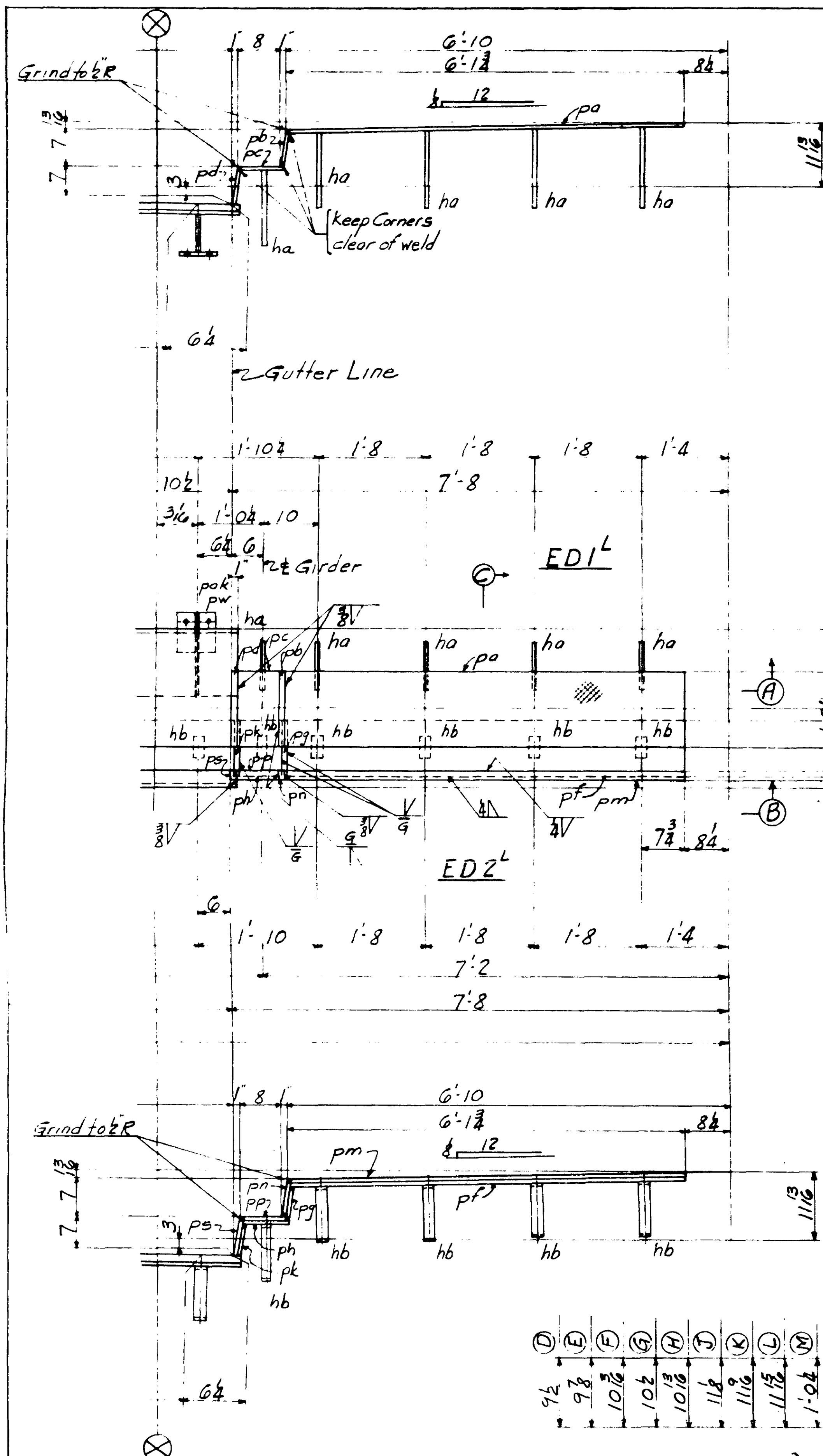
DRAWINGS MADE AT TRENTON PLANT
 WORK FABRICATED AT AMBRIDGE PLANT
 IN CHARGE OF MARKS
 DRAW. MADE BY RNG DATE _____
 DRAW. CHECKED BY FEL DATE 7-12-54

F
E <u>5-18-54</u>
D <u>2-12-54</u>
C <u>5-4-54</u>
B <u>2-16-54</u>
X <u>2-22-54</u>
REVISIONS

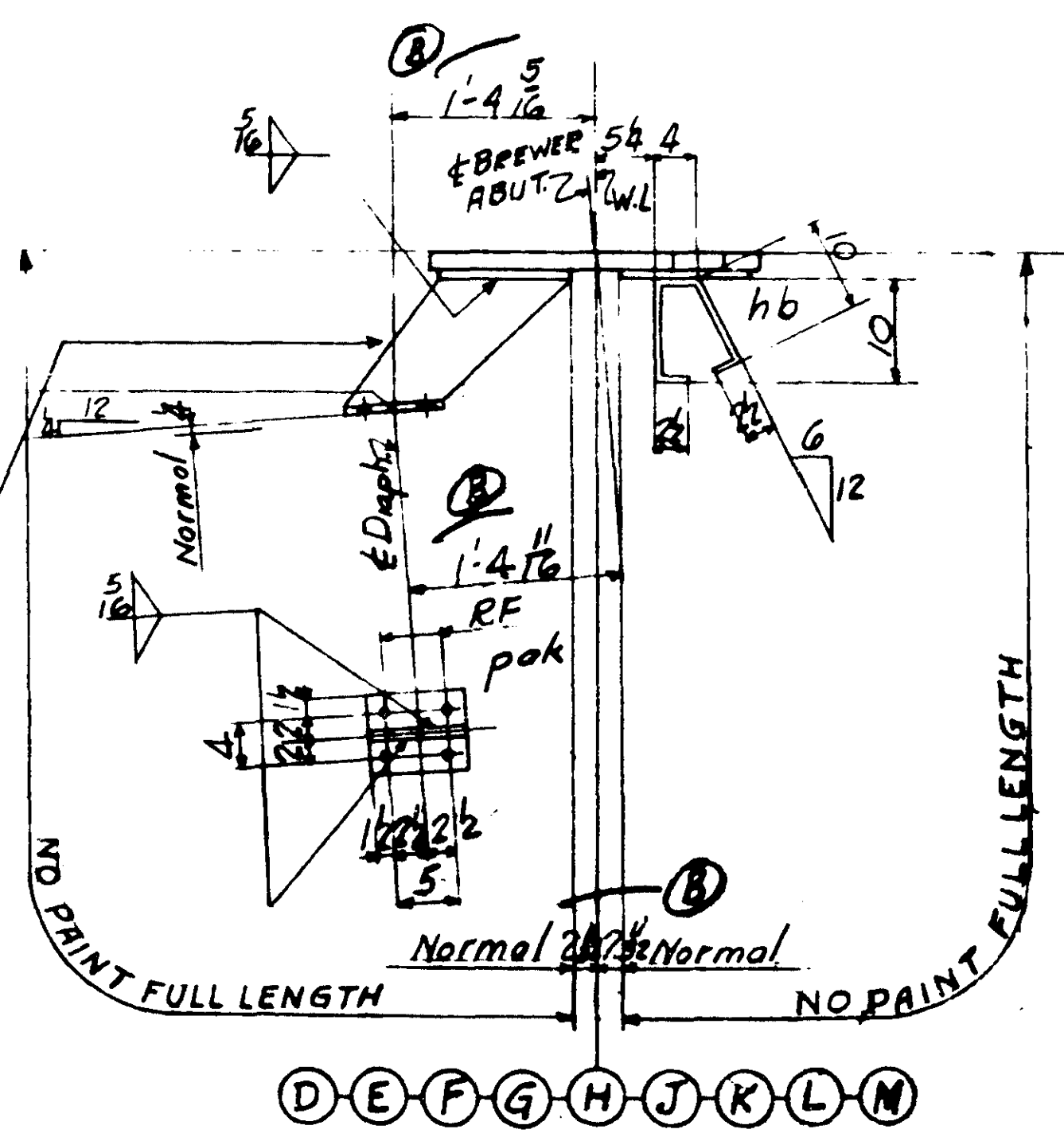
ORDER NO. Q4150 SHEET NO. 301BC

WELL

LINE	ITEM	MATERIAL		LENGTH	ASSEMBLY	REMARKS	ORDERED		CALCULATED WEIGHT
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NOTES:
 Specifications, Maine State Highway Comm. 1945
 & Special Provisions
 Material, O.H. Steel ASTM A7-52T
 Holes: 1/8"
 Workmanship:
 Holes marked RF to be subpunched & and
 reamed to size in the field.

LINE	ITEM	QTY	UNIT	REMARKS	ORDERED	CALCULATED WEIGHT
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EXPANSION DAMS ED1, ED2, ED3, ED4

STATE OF MAINE
 STATE HIGHWAY COMMISSION
 BANGOR-BREWER BRIDGE
 OVER PENOBSCOT RIVER
 BANGOR, MAINE

REVISIONS	DATE	BY	REASON
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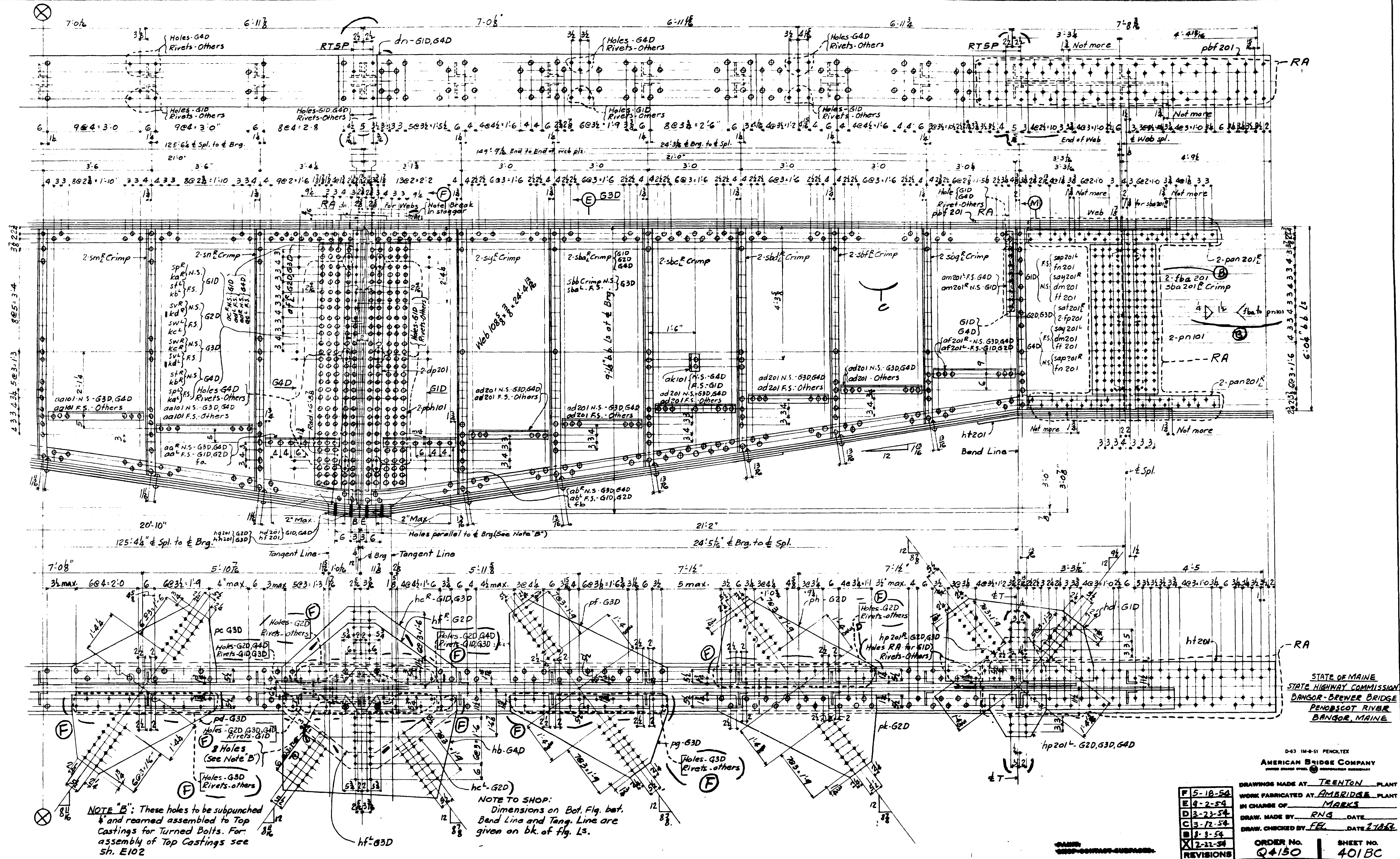
PAINT: Yes
 SHOP CONTACT SURFACES: No

MA 303

ORDER NO. 3028
 SHEET NO. 3028

Weld

REV.	DATE	BY	CHKD.	DESCRIPTION
1	10-1-54	ENG	ENG	AS BUILT
2	10-1-54	ENG	ENG	AS BUILT
3	10-1-54	ENG	ENG	AS BUILT
4	10-1-54	ENG	ENG	AS BUILT
5	10-1-54	ENG	ENG	AS BUILT
6	10-1-54	ENG	ENG	AS BUILT
7	10-1-54	ENG	ENG	AS BUILT
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13	10-1-54	ENG	ENG	AS BUILT
14	10-1-54	ENG	ENG	AS BUILT
15	10-1-54	ENG	ENG	AS BUILT
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53	10-1-54	ENG	ENG	AS BUILT
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73	10-1-54	ENG	ENG	AS BUILT
74	10-1-54	ENG	ENG	AS BUILT
75	10-1-54	ENG	ENG	AS BUILT
76	10-1-54	ENG	ENG	AS BUILT
77	10-1-54	ENG	ENG	AS BUILT
78	10-1-54	ENG	ENG	AS BUILT
79	10-1-54	ENG	ENG	AS BUILT
80	10-1-54	ENG	ENG	AS BUILT
81	10-1-54	ENG	ENG	AS BUILT
82	10-1-54	ENG	ENG	AS BUILT
83	10-1-54	ENG	ENG	AS BUILT
84	10-1-54	ENG	ENG	AS BUILT
85	10-1-54	ENG	ENG	AS BUILT
86	10-1-54	ENG	ENG	AS BUILT
87	10-1-54	ENG	ENG	AS BUILT
88	10-1-54	ENG	ENG	AS BUILT
89	10-1-54	ENG	ENG	AS BUILT
90	10-1-54	ENG	ENG	AS BUILT
91	10-1-54	ENG	ENG	AS BUILT
92	10-1-54	ENG	ENG	AS BUILT
93	10-1-54	ENG	ENG	AS BUILT
94	10-1-54	ENG	ENG	AS BUILT
95	10-1-54	ENG	ENG	AS BUILT
96	10-1-54	ENG	ENG	AS BUILT
97	10-1-54	ENG	ENG	AS BUILT
98	10-1-54	ENG	ENG	AS BUILT
99	10-1-54	ENG	ENG	AS BUILT
100	10-1-54	ENG	ENG	AS BUILT



NOTE "B": These holes to be subpunched and reamed assembled to Top Castings for Turned Bolts. For assembly of Top Castings see Sh. E102

NOTE TO SHOP: Dimensions on Bot. Flg. bot. Bend Line and Tang. Line are given on bk. of flg. Ls.

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR-BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

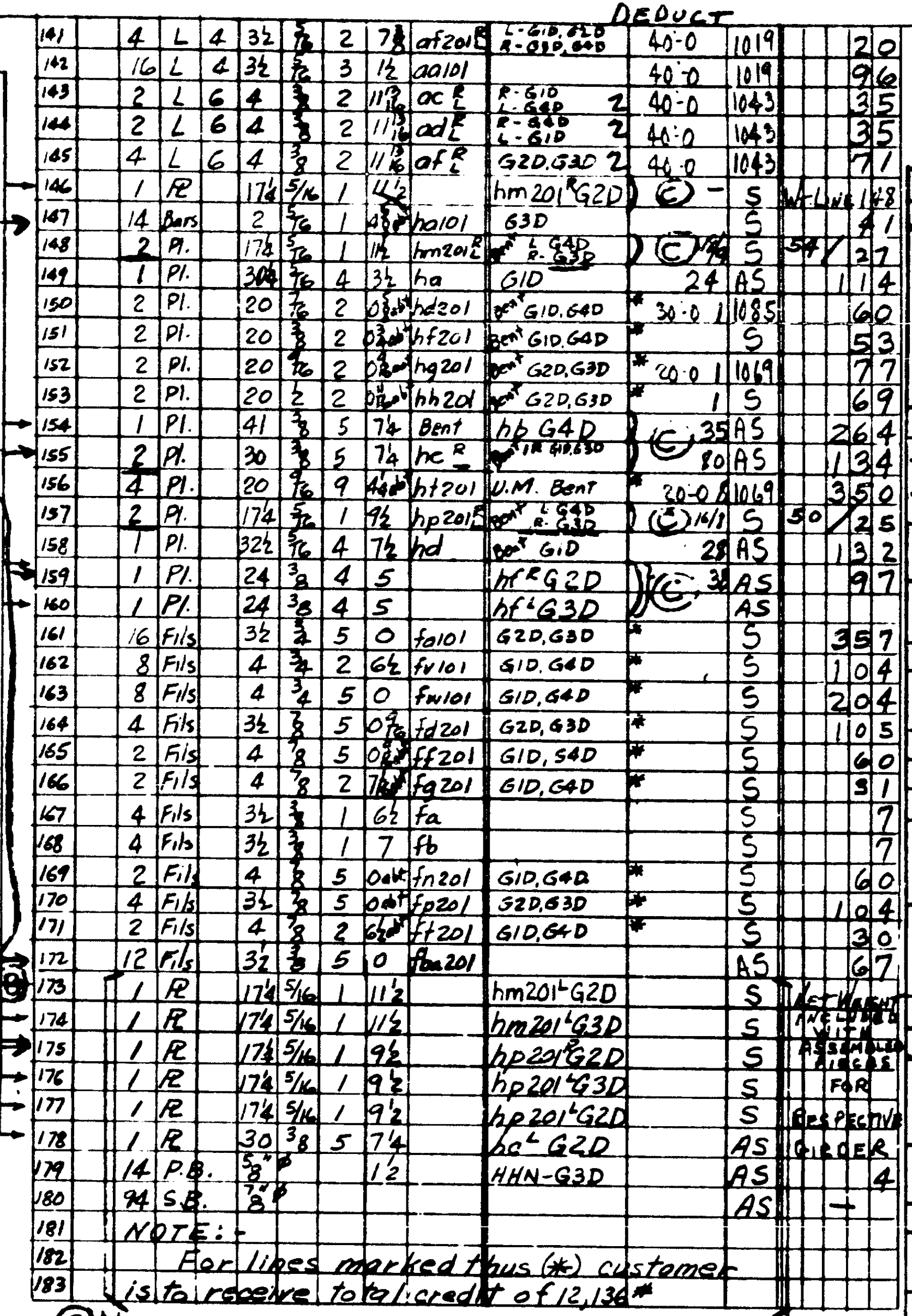
D-63 1M-B-51 PENCILTEX
AMERICAN BRIDGE COMPANY
MADE IN U.S.A.

DRAWING MADE AT TRENTON PLANT
WORK FABRICATED AT AMBRIDGE PLANT
IN CHARGE OF MARKS
DRAW. MADE BY RNC DATE
DRAW. CHECKED BY FEL DATE 2/18/54

ORDER NO. Q4150 SHEET NO. 401BC

REVISIONS
F 5-18-54
E 9-2-54
D 2-22-54
C 3-12-54
B 3-3-54
A 2-22-54

62-193



NOTE:

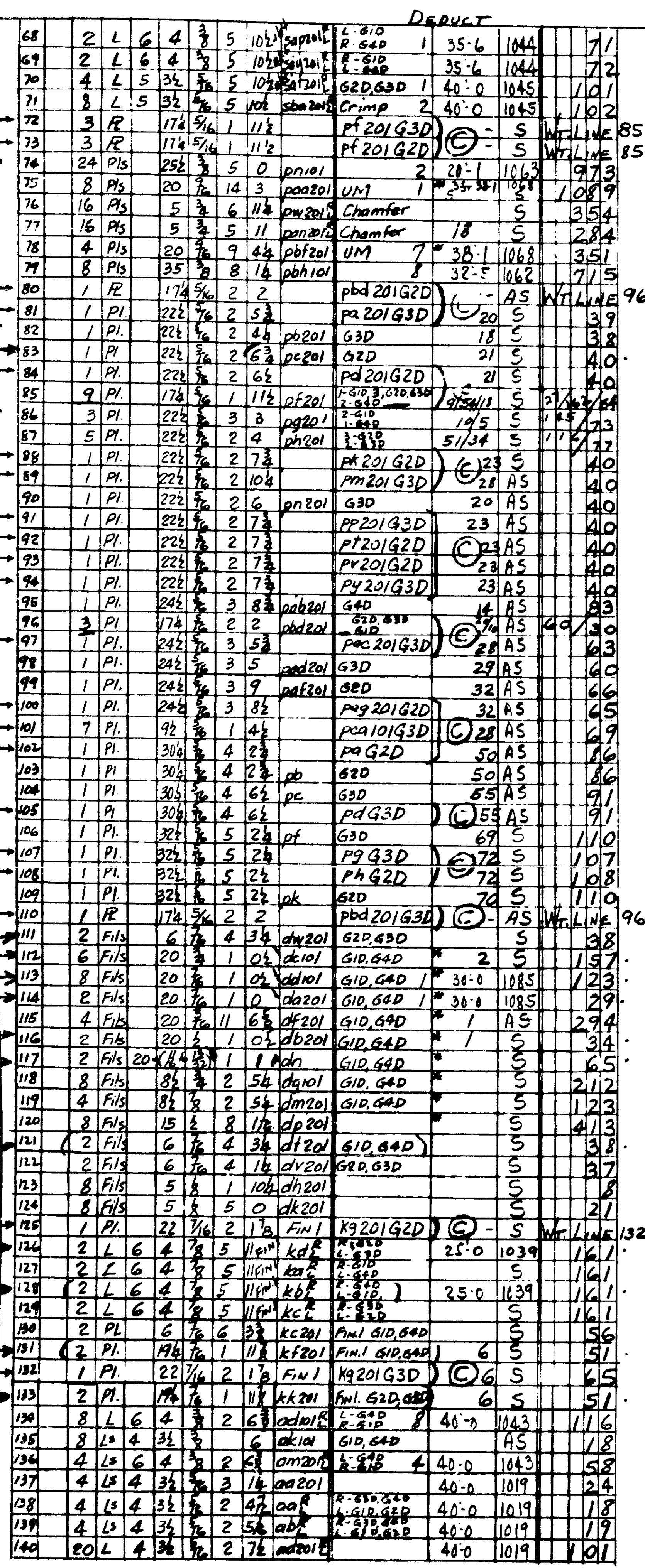
- 1) Specifications for Maine State Highway R/CVG10-12.76
1945 and Special Provision. C.M.M. R/CVG10-13.10
- 2) Material: O.H. Steel A.S.T.M. A7-SPT R/CVG40-12.68
- 3) Rivets: 8" ϕ WELD G30- 2
- 4) Holes: $\frac{3}{4}$ " Unless Noted P/NUT G10 2.63
G20 2.52
G30 2.54
P/NUT G40 2.63
- 5) Workmanship:
 - Holes in material thicker than the diameter of the rivet shall be drilled.
 - Holes in main material, including holes at splices, in bearing stiffeners, and splice plates to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size.
 - Holes marked RT to be subpunched $\frac{1}{4}$ " and reamed to size to a metal template.
 - Holes marked RA to be subpunched or subdrilled $\frac{1}{4}$ " and reamed to size while connecting members are assembled to cambered position. (See Sheet E102). Connecting members to be matchmarked.
 - Fillers and splice plates under stiffeners to fit within $\frac{1}{8}$ " of flange angles.

B.E. indicates bearing end of stiffeners.

PAINT: Yes, except as shown in Section "X"

SHOP CONTACT SURFACES: - No

STIFFENER DIAGRAMS



UNITED STATES STEEL COMPANY									
LINE	ITEM	MATERIAL		ASSEMBLING NAME	REMARKS	ORDERED		CALC. HERE FOR	
		SHAPE	LENGTH Feet			ITEM	ITEM		
1									
2									
3		ONE GIRDER	G10		DO NOT CHARGE	3034		660.09	
4		ONE GIRDER	G20			3034		635.07	
5		ONE GIRDER	G30			3034		636.23	
6		ONE GIRDER	G40		DO NOT CHARGE	3034		658.43	
7					Deduct				
8		4 W6R	7 1/2	8	8	104.134	1053	454.8	
9		4 W6R	7 1/2	8	8	104.134	1058	461.4	
10		4 W6R	7 1/2	8	8	104.134	1066	472.6	
11		4 W6R	7 1/2	8	8	104.134	1074	483.8	
12		16 L	8	6	6	86.8	1089	1170.0	
13		5 L	8	6	6	86.8	1089	491.4	
14		3 L	8	6	6	86.8	1089	495.3	
15		2 Cw	R	20	2	55.0	1072	181.6	
16		2 Cw	R	20	2	55.0	1072	181.6	
17		2 Cw	R	20	2	55.0	1072	181.6	
18		2 Cw	R	20	2	55.0	1072	181.6	
19		2 Cw	R	20	2	55.0	1072	181.6	
20		2 Cw	R	20	2	55.0	1072	181.6	
21		2 Cw	R	20	2	55.0	1072	181.6	
22		2 Cw	R	20	2	55.0	1072	181.6	
23		2 Cw	R	20	2	55.0	1072	181.6	
24		4 Cw	R	20	2	55.0	1072	181.6	
25		4 Cw	R	20	2	55.0	1072	181.6	
26		4 Cw	R	20	2	55.0	1072	181.6	
27									
28									
29		55 L	5	32	5	102	1045	209.8	
30		59 L	5	32	5	102	1045	209.8	
31		2 L	5	32	5	102	1045	52	
32		4 L	5	32	5	102	1045	52	
33		8 L	6	4	5	116	1044	72	
34		2 L	6	4	5	116	1044	72	
35		16 L	5	32	5	102	1045	209.8	
36		4 L	5	32	5	102	1045	52	
37		4 L	5	32	5	102	1045	52	
38		4 L	5	32	5	102	1045	52	
39		4 L	5	32	5	102	1045	52	
40		14 L	5	32	5	102	1045	209.8	
41		15 L	5	32	5	102	1045	209.8	
42		2 L	5	32	5	102	1045	52	
43		2 L	6	4	5	116	1044	72	
44		2 L	6	4	5	116	1044	72	
45		2 L	5	32	5	102	1045	52	
46		8 L	5	32	5	102	1045	52	
47		8 L	5	32	5	102	1045	52	
48		4 L	6	32	6	116	1018	83	
49		3 L	6	32	6	116	1018	83	
50		1 L	6	32	6	116	1018	83	
51		3 L	6	32	6	116	1018	83	
52		3 L	6	32	6	116	1018	83	
53		2 L	6	32	6	116	1018	83	
54		8 L	6	32	6	116	1018	83	
55		8 L	6	32	6	116	1018	83	
56		8 L	6	32	6	116	1018	83	
57		2 L	6	4	5	116	1044	72	
58		2 L	6	4	5	116	1044	72	
59		2 L	6	4	5	116	1044	72	
60		8 L	6	32	6	116	1018	83	
61		3 L	6	32	6	116	1018	83	
62		4 L	6	32	6	116	1018	83	
63		1 L	6	32	6	116	1018	83	
64		8 L	6	32	6	116	1018	83	
65		8 L	6	32	6	116	1018	83	
66		8 L	5	32	5	102	1045	52	
67		8 L	5	32	5	102	1045	52	

F			
E			
D			
C	5-18-54		
B	3-3-54		
X	2-22-54		
REVIEWS			

STANDARD 10-21 GOR 18-2

AMERICAN BRIDGE

DIVISION

UNITED STATES STEEL COMPANY

DRAWINGS MADE AT TRENTON PLANT

WORK FABRICATED AT AMBRIDGE PLANT

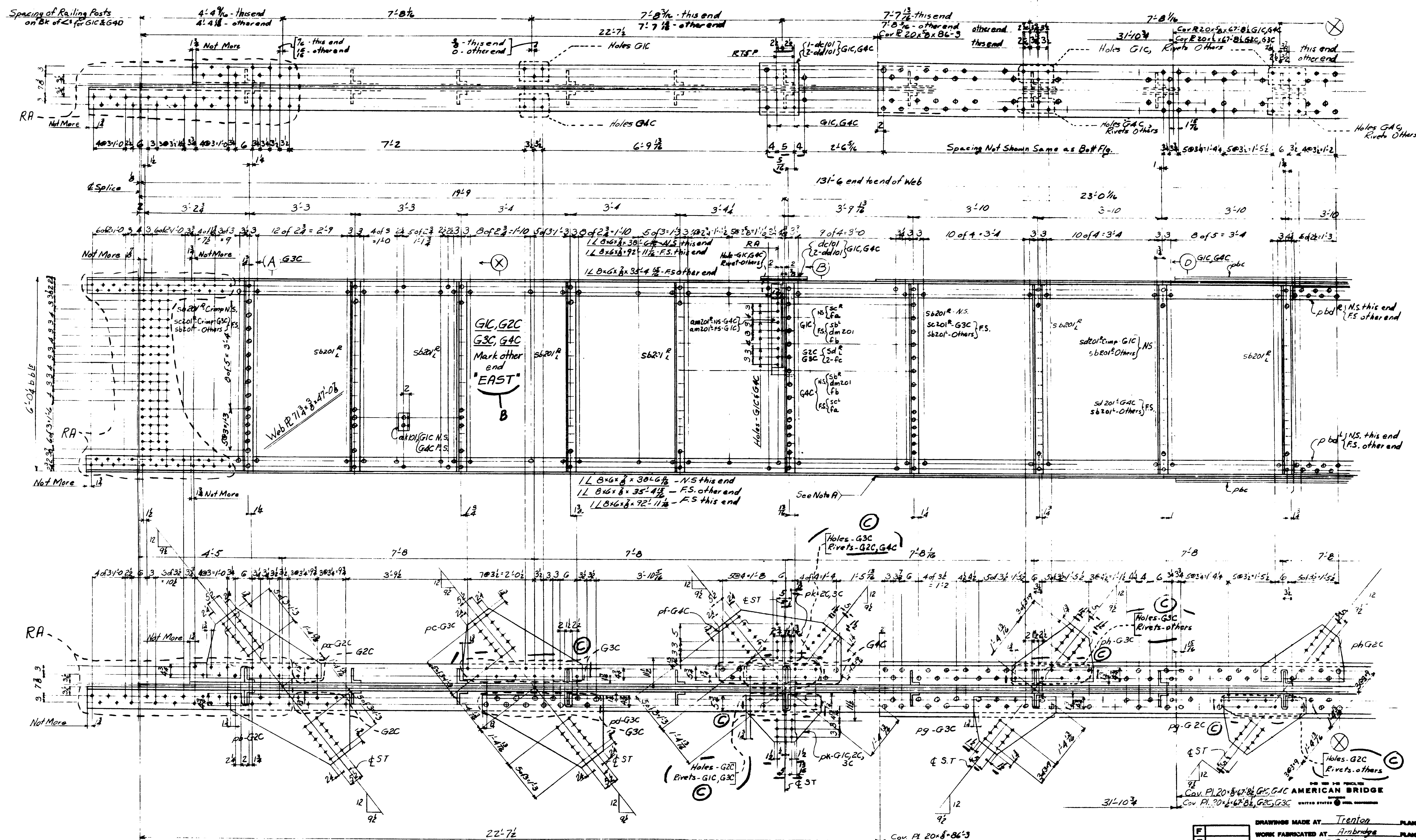
IN CHARGE OF F.B. MARKS

DRAW. MADE BY RNG DATE 11-28-53

DRAW. CHECKED BY FEL DATE 2-18-54

ORDER No. Q 4150 SHEET No. 401 C

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	COVER PLATE
2	1	EA	COVER PLATE
3	1	EA	COVER PLATE
4	1	EA	COVER PLATE
5	1	EA	COVER PLATE
6	1	EA	COVER PLATE
7	1	EA	COVER PLATE
8	1	EA	COVER PLATE
9	1	EA	COVER PLATE
10	1	EA	COVER PLATE
11	1	EA	COVER PLATE
12	1	EA	COVER PLATE
13	1	EA	COVER PLATE
14	1	EA	COVER PLATE
15	1	EA	COVER PLATE
16	1	EA	COVER PLATE
17	1	EA	COVER PLATE
18	1	EA	COVER PLATE
19	1	EA	COVER PLATE
20	1	EA	COVER PLATE
21	1	EA	COVER PLATE
22	1	EA	COVER PLATE
23	1	EA	COVER PLATE
24	1	EA	COVER PLATE
25	1	EA	COVER PLATE
26	1	EA	COVER PLATE
27	1	EA	COVER PLATE
28	1	EA	COVER PLATE
29	1	EA	COVER PLATE
30	1	EA	COVER PLATE
31	1	EA	COVER PLATE
32	1	EA	COVER PLATE
33	1	EA	COVER PLATE
34	1	EA	COVER PLATE
35	1	EA	COVER PLATE
36	1	EA	COVER PLATE
37	1	EA	COVER PLATE
38	1	EA	COVER PLATE
39	1	EA	COVER PLATE
40	1	EA	COVER PLATE
41	1	EA	COVER PLATE
42	1	EA	COVER PLATE
43	1	EA	COVER PLATE
44	1	EA	COVER PLATE
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46	1	EA	COVER PLATE
47	1	EA	COVER PLATE
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91	1	EA	COVER PLATE
92	1	EA	COVER PLATE
93	1	EA	COVER PLATE
94	1	EA	COVER PLATE
95	1	EA	COVER PLATE
96	1	EA	COVER PLATE
97	1	EA	COVER PLATE
98	1	EA	COVER PLATE
99	1	EA	COVER PLATE
100	1	EA	COVER PLATE



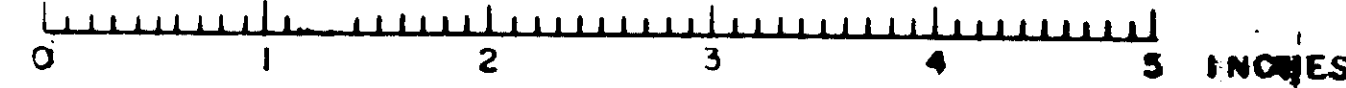
NOTE A:
Seal opening between Cover Plate
and Girder Web with weld metal.

STATE OF MAINE
STATE HIGHWAY COMMISSION
BANGOR - BREWER BRIDGE
PENOBSCOT RIVER
BANGOR, MAINE

REVISIONS	DATE	BY	CHKD
1	5-10-54	RNG	FEL
2	5-12-54		
3	12-22-54		

DRAWING MADE AT Trenton PLANT
WORK FABRICATED AT Ambridge PLANT
IN CHARGE OF F.B. Marks
DRAWN BY RNG DATE 9-5-52
DRAWN CHECKED BY FEL DATE 2-13-52
ORDER NO. Q4150 SHEET NO. 501AC

Welding

[illegible][illegible]

FORM 8-52
SKETCH, SHOP AND SHIPPING BILL
AMERICAN BRIDGE COMPANY

UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	NO. POS.	MARK	MATERIAL		LENGTH FT. IN.	WEIGHT LBS. OZ.	ORDERED		ITEM	SHIPMENTS
			SHAPE	SIZE			LENGTH	ITEM		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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42										
43										
44										
45										
46										

Welding Electrodes
PAINT
CONTACT SURFACES

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF
Marks
ORDER No.
Q 4149

SHEET No.
C 103

Div. 1, 2, 3, 4

FORM 8-53
TURNED BOLTS
AMERICAN BRIDGE COMPANY

UNITED STATES STEEL CORPORATION SUBSIDIARY

SPECIFY UNDER DI
LDF - LIGHT DRIVE FIT
DF - DRIVE FIT
OF - ORDINARY FIT
(HOLE DIAMETER MINUS $\frac{1}{32}$)

3/16 IMPRESSER SLOT

GRIP

STANDARD WASHERS

TYPE X V P

DIMENSION A GRIP - 1/2" to 1/4"

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

NO	TYPE	SIZE	OF	DI	DI	A	B	L	GRIP	NO. OF NUTS	NO. OF WASHERS	NO. OF BOLTS	LOCATION	SHIPPING WEIGHT	SHIPMENTS
8	Hex	1 1/2"	DF	1 1/2"	3/4"	1 1/2"	3/4"	1 1/2"	3/4"	1	X	1-24	F1 to TPI1	110	
8	Hex	1 1/2"	DF	1 1/2"	3/4"	1 1/2"	3/4"	1 1/2"	3/4"	1	X	1-24	F1 to TPI1	110	
16	Hex	1 1/2"	DF	1 1/2"	3/4"	1 1/2"	3/4"	1 1/2"	3/4"	1	X	1-24	F2 to TPI2	330	
32 Washers 2 1/2" x 3 1/2" x 1/4"															

TURNED BOLTS

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF
Marks
ORDER No.
Q 4149

SHEET No.
C 102

Div. 1

FORM 8-53
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D	NO. SHIPPED	DIAM.	RIVETS		BOLTS		GRIP	Dartlet Grip No.	SHIPMENTS
				LENGTH UNDER HEAD	HEAD	TYPE OF BOLT	WASHER			
1	12	20	3/4"	2 1/2"				2 1/2"		
2	140	172	3/4"	3 1/2"				3 1/2"		
3	612	714	3/4"	2 1/4"				2 1/4"		
4	50	65	3/4"	4 1/4"				4 1/4"		
5	35	50	3/4"	2 3/4"				2 3/4"		
6	25	40	3/4"	3 3/4"				3 3/4"		
7	9	14	3/4"	4 3/4"				4 3/4"		
8	71	92	3/4"	3 3/4"				3 3/4"		
9	70	114	3/4"	2 3/4"				2 3/4"		
10	314	372	3/4"	2 3/4"				2 3/4"		
11	15	22	3/4"	3 3/4"				3 3/4"		
12	39	55	3/4"	3 3/4"				3 3/4"		
13	3	6	3/4"	3				3		
14	11	13	3/4"	2 3/4"				2 3/4"		
15	54	70	3/4"	2 1/2"				2 1/2"		
16	19	30	3/4"	2 3/4"				2 3/4"		
17	4	7	3/4"	4				4		
18	4	7	3/4"	4 1/2"				4 1/2"		
19										
20	25	31	3/4"							
21	2	4	3/4"							
22	1	3	3/4"							
23				2 1/4" Hex Hex		Ordinary		2 1/4"		
24				2 1/2" Hex Hex		Ordinary		2 1/2"		
25				2 3/4" Hex Hex		Ordinary		2 3/4"		
26	18	23	3/4"							
27	91	100	3/4"							
28	72	80	3/4"							
29	8	12	3/4"							
30				2 3/4" Button Hex		Dartlet		2 3/4"		
31				2 3/4" Button Hex		Dartlet		2 3/4"		
32				2 3/4" Button Hex		Dartlet		2 3/4"		
33				3 3/4" Button Hex		Dartlet		3 3/4"		
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										

180 Washers 2 1/2" x 3 1/2" x 1/4"

360 Washers 2 1/2" x 3 1/2" x 1/4"

NAME OF STRUCTURE
Bangor-Brewer Bridge - Bangor, Me.

IN CHARGE OF
Marks
ORDER No.
Q 4149

SHEET No.
C 101

Div. 1

FORM D-73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	Dardeclet Grip No.	SHIPMENTS
				LENGTH UNDER HEAD	HEAD	WUT	WASH-ER	TYPE OF BOLT
1	90	114	7/8	2 1/2				5
2	22	36	7/8	3 1/2				12 1/2
3	76	98	7/8	4 1/2				2 1/2
4	26	40	7/8	5 1/2				3 1/2
5	4	7	7/8	5 1/2				3 1/2
6	32	46	7/8	3 1/2				1 1/2
7	80	102	7/8	4 1/2				2 1/2
8	14	22	7/8	5				3 1/2
9	40	56	7/8	3 1/2				1 1/2
10	48	66	7/8	3 1/2				1 1/2
11	20	30	7/8	4 1/2				2 1/2
12	56	74	7/8	4				2 1/2
13	368	434	7/8	2 1/2				3 1/2
14	10	15	7/8	5 1/2				3 1/2
15	24	38	7/8	4 1/2				2 1/2
16	600	700	7/8	2 1/2				3 1/2
17	32	46	7/8	4 1/2				2 1/2
18	40	56	7/8	3 1/2				1 1/2
19	60	80	7/8	3 1/2				1 1/2
20	2	4	7/8	5 1/2				3 1/2
21	112	138	7/8	2 1/2				1 1/2
22	52	70	7/8	2 1/2				1 1/2
23	38	54	7/8	3 1/2				2 1/2
24	8	13	7/8	2 1/2				1 1/2
25	20	25	3/4		2 1/4 Hex Hex	Ordinary	1 1/4	1 1/4
26	20	25	3/4		2 1/2 Hex Hex	Ordinary	1 1/2	1 1/2
27	64	72	7/8		2 1/2 Button Hex	Dardeclet Rivet Bolt	1 1/4	1 1/4
28	192	202	7/8		2 1/2 Button Hex	Dardeclet Rivet Bolt	1 1/4	1 1/4
29	20	25	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	1 1/2	1 1/2
30	4	6	7/8		3 1/2 Button Hex	Dardeclet Rivet Bolt	2 1/4	2 1/4
31	4	6	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	2 1/4	2 1/4
32	4	6	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	2 1/4	2 1/4
33	317	Washers	2 1/2 x 4 1/2 thick 1 1/2 hole					8 1/2
34	634	Washers	2 1/2 x 8 thick 1 1/2 hole					8 1/2

FORM D-73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	Dardeclet Grip No.	SHIPMENTS
				LENGTH UNDER HEAD	HEAD	WUT	WASH-ER	TYPE OF BOLT
1	87	110	7/8	2 1/2				5
2	80	102	7/8	4 1/2				2 1/2
3	144	176	7/8	5 1/2				3 1/2
4	148	180	7/8	7				4 1/2
5	54	70	7/8	6 1/2				4 1/2
6	120	125	7/8	3 1/2				1 1/2
7	132	162	7/8	4 1/2				2 1/2
8	216	248	7/8	2 1/2				1 1/2
9	112	138	7/8	2 1/2				1 1/2
10	56	70	7/8	4 1/2				2 1/2
11	8	13	7/8	6 1/2				4 1/2
12	7	13	7/8	5 1/2				3 1/2
13	504	590	7/8	2 1/2				3 1/2
14	6	10	7/8	7 1/2				4 1/2
15	118	145	7/8	2 1/2				1 1/2
16	6	10	7/8	3 1/2				1
17	32	46	7/8	2 1/2				2 1/2
18	14	22	7/8	4				3 1/2
19	14	22	7/8	4 1/2				3 1/2
20	16	21	3/4		2 1/4 Hex Hex	Ordinary	1 1/4	1 1/4
21	20	25	3/4		2 1/2 Hex Hex	Ordinary	1 1/2	1 1/2
22	128	138	7/8		2 1/2 Button Hex	Dardeclet Rivet Bolt	1 1/4	1 1/4
23	16	21	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	2	2
24	159	Washers	2 1/2 x 4 1/2 thick 1 1/2 hole					4 1/2
25	318	Washers	2 1/2 x 8 thick 1 1/2 hole					4 1/2

FORM D-73
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY
UNITED STATES STEEL CORPORATION SUBSIDIARY

LINE NO.	ACTUAL NUMBER REQ'D	NO. SHIPPED	DIAM.	RIVETS	BOLTS	GRIP	Dardeclet Grip No.	SHIPMENTS
				LENGTH UNDER HEAD	HEAD	WUT	WASH-ER	TYPE OF BOLT
1	96	120	7/8	2 1/2				5
2	80	102	7/8	5 1/2				3 1/2
3	40	55	7/8	5 1/2				2
4	88	112	7/8	6 1/2				4 1/2
5	52	70	7/8	4 1/2				2 1/2
6	48	62	7/8	4 1/2				2 1/2
7	32	46	7/8	6 1/2				4 1/2
8	24	38	7/8	6				4 1/2
9	80	102	7/8	3 1/2				4
10	116	144	7/8	4 1/2				1 1/2
11	20	30	7/8	3 1/2				2 1/2
12	48	63	7/8	4				1 1/4
13	452	530	7/8	2 1/2				2 1/2
14	242	288	7/8	2 1/2				3 1/2
15	146	178	7/8	2 1/2				1 1/4
16	56	74	7/8	2 1/2				2 1/2
17	126	154	7/8	2 1/2				1
18	10	15	7/8	3 1/2				1 1/2
19	8	13	7/8	7				1 1/2
20	32	46	7/8	6 1/2				4 1/2
21	22	36	7/8	2 1/2				1 1/2
22	6	10	7/8	4 1/2				1 1/2
23	6	10	7/8	3 1/2				2 1/2
24	8	13	7/8	4 1/2				2 1/2
25	28	34	3/4		2 1/4 Hex Hex	Ordinary	1 1/4	1 1/4
26	8	11	3/4		2 1/2 Hex Hex	Ordinary	1 1/2	1 1/2
27	148	160	7/8		2 1/2 Button Hex	Dardeclet Rivet Bolt	1 1/4	1 1/4
28	8	12	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	2	2
29	8	12	7/8		3 1/4 Button Hex	Dardeclet Rivet Bolt	2 1/4	2 1/4
30	184	Washers	2 1/2 x 4 1/2 thick 1 1/2 hole					5 1/2
31	368	Washers	2 1/2 x 8 thick 1 1/2 hole					5 1/2

0 1 2 3 4 5 INCHES

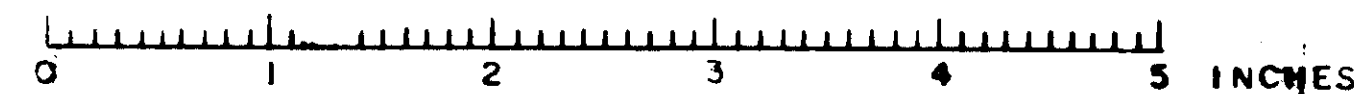
UNITED STATES STEEL COMPANY

Bangor-Brewer Bridge - Bangor, Me

AMERICAN BRIDGE COMPANY



AMERICAN BRIDGE COMPANY

STATE OF MAINE - STATE HIGHWAY COMMISSION - BANGOR

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	24	3/8	2 1/2			5/8	B26 to M9, 92, 93, 94, 95
2	40	3/8	5 1/2			3 1/2	B26 to B31
3	40	3/8	5 1/2			3 1/2	B27, B28 to B32, B33 (Top)
4	8	3/8	6 3/4			4 1/2	B26 to B31 (Top)
5	16	3/8	6 3/4			4 1/2	B27, B28 to B32, B33 (Top)
6	16	3/8	4 1/2			2 1/2	B26 to B31
7	8	3/8	6 3/4			4 1/2	B27, B28 to B32, B33
8	32	3/8	6 3/4			4 1/2	B26 to B31 (Bottom)
9	24	3/8	6 3/4			4 1/2	B27, B28 to B32, B33 (Bottom)
10	24	3/8	6 3/4			4 1/2	B27, B28 to B32, B33 (Bottom)
11	20	3/8	6 3/4			4 1/2	B27, B28 to B32, B33 (Bottom)
12	40	3/8	6 3/4			4 1/2	B26 to B31 (web)
13	10	3/8	4 1/2			2 1/2	B27, B28 to B32, B33 (web)
14	10	3/8	4 1/2			2 1/2	B26 to B31 (web)
15	20	3/8	4 1/2			2 1/2	do
16	20	3/8	4 1/2			2 1/2	B27, B28 to B32, B33 (web)
17	36	3/8	4 1/2			2 1/2	do
18	40	3/8	4 1/2			2 1/2	B26 to D26, M30
19	36	3/8	4 1/2			2 1/2	B27, B28 to D29, D25, D26
20	36	3/8	4 1/2			2 1/2	B26 to D19, M44
21	72	3/8	4 1/2			2 1/2	B26 to D13, D17, M29, M43
22	36	3/8	4 1/2			2 1/2	B26 to D49, M28
23	40	3/8	4 1/2			2 1/2	B27, B28 to D18, D19, 219A
24	40	3/8	4 1/2			2 1/2	B27, B28 to D8, D69
25	12	3/8	2 1/2			5/8	B27, B28 to D12, 3, 17, 22, 23
26	14	3/8	2 1/2			5/8	B30 to M103, 104, 105, 106
27	36	3/8	2 1/2			5/8	B30 to M36
28	18	3/8	2 1/2			5/8	B30 to D20, M34
29	18	3/8	2 1/2			5/8	B30 to M35
30	24	3/8	2 1/2			5/8	B30 to D21
31	8	3/8	6 3/4			4 1/2	B31 to M92, M96-M102
32	10	3/8	4 1/2			2 1/2	B31 to M31
33	8	3/8	6 3/4			4 1/2	B31
34	36	3/8	4 1/2			2 1/2	B31 to D32
35	36	3/8	4 1/2			2 1/2	B31 to D29, M45
36	36	3/8	4 1/2			2 1/2	B31 to D32, M31
37	36	3/8	4 1/2			2 1/2	B31 to D35, M32
38	10	3/8	4 1/2			2 1/2	B31 to D32, M33
39	40	3/8	4 1/2			2 1/2	B29 to M107-110
40	16	3/8	4 1/2			2 1/2	B29 to B34
41	8	3/8	6 3/4			4 1/2	do
42	8	3/8	6 3/4			4 1/2	do (Top)
43	10	3/8	4 1/2			2 1/2	do (Bottom)
44	10	3/8	4 1/2			2 1/2	do (web)
45	10	3/8	4 1/2			2 1/2	do (web)
46	10	3/8	4 1/2			2 1/2	do (web)
47	10	3/8	4 1/2			2 1/2	B29 to D24, M34

FIELD RIVETS AND BOLTS

NAME DATE

PRY 2/20/54

IN CHARGE OF MARKS ORDER No.

TF Q4149

Div. 2 SHEET No.

EF201

Bangor-Brewer Bridge - Bangor, Me.

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	11	3/8		#6	Hex	1 1/2	F1 to B16
2	18	3/8		#5	Hex	1 1/2	F1 to M3
3	72	3/8		#7	Hex	1 1/2	ED4 to Diaphragms
4	4	3/8		#9	Hex	2	ED4 to D6
5	4	3/8		#9	Hex	2	ED4 to D9
6	80	3/8		#6	Hex	1 1/2	ED3 to D4A
7							
8							
9	160	Washers 2 1/2					For use under nuts of Double Rivets
10	320	Washers 2 1/2					do required to build up required grip as noted on lines 3, 4, 5, 6.
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
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37							
38							
39							
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41							
42							
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45							
46							
47							

FIELD RIVETS AND BOLTS

NAME DATE

PRY 2/20/54

IN CHARGE OF MARKS ORDER No.

TF Q4149

Div. 1 SHEET No.

EF103

Bangor-Brewer Bridge - Bangor, Me.

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	12	3/8	2 1/2			5/8	B9 to M19, M18
2	4	3/8	3 1/4			1 1/2	B9 to M9
3	36	3/8	2 1/2			3 1/2	B9 to M9, D13
4	48	3/8	2 1/2			3 1/2	B14, B15, B16 to D11, D12, D13, D15
5	6	3/8	2 1/2			3 1/2	B13 to B19
6	16	3/8	2 1/2			3 1/2	B12 to D11
7	10	3/8	2 1/2			3 1/2	B14 to B16
8	6	3/8	2 1/2			3 1/2	B15 to B16
9	7	3/8	2 1/2			3 1/2	B16 to M2
10	7	3/8	2 1/2			3 1/2	B16 to M3
11	6	3/8	3 1/4			3 1/2	B17 to B19
12	16	3/8	2 1/2			3 1/2	B17 to D14, D15
13	6	3/8	2 1/2			3 1/2	B19
14	6	3/8	2 1/2			3 1/2	B19 to B18
15	12	3/8	2 1/2			3 1/2	B18 to M22, 23, 24, 25
16	4	3/8	4			2 1/2	B18 to M4
17	36	3/8	2 1/2			3 1/2	B18 to M4, D14
18	4	3/8	2 1/2			3 1/2	B20 to M5
19	6	3/8	2 1/2			3 1/2	B20 to M26, M27
20	12	3/8	2 1/2			3 1/2	B21 to M18, M20
21	8	3/8	3 1/4			3 1/2	B21 to M7, M8
22	36	3/8	2 1/2			3 1/2	B21 to M7, D9
23	36	3/8	2 1/2			3 1/2	B21 to M8, D17
24	40	3/8	2 1/2			3 1/2	B22, B23 to D14, 12, 17
25	8	3/8	2 1/2			3 1/2	B23 to D16
26	60	3/8	2 1/2			3 1/2	B22, B23 to D6A, 7B, 9
27	6	3/8	2 1/2			3 1/2	B24 to M99, M90
28	4	3/8	3 1/4			3 1/2	B24 to M6
29	4	3/8	4 1/2			2 1/2	B24 to M5
30	36	3/8	2 1/2			3 1/2	B24 to M6, D6A
31	20	3/8	3 1/4			3 1/2	B24 to M5, D16
32	12	3/8	2 1/2			3 1/2	FBI, F32 to D1, D2
33	12	3/8	2 1/2			3 1/2	FBI, F32 to D3, D3A
34	2	3/8	2 1/2			3 1/2	D6 to M1
35	2	3/8	2 1/2			3 1/2	D6A to M6
36	4	3/8	2 1/2			3 1/2	D7 to M7, M11
37	8	3/8	2 1/2			3 1/2	D10 to M2
38	18	3/8	2 1/2			3 1/2	D13, D17 to M8, M9
39	12	3/8	3 1/4			3 1/2	D16 to M5
40	6	3/8	2 1/2			3 1/2	D16 to M4
41	7	3/8	3 1/4			3 1/2	FBA, F34 to M1, M11, M2, M9
42	3	3/8	3 1/4			3 1/2	FBA to M7, M8
43	6	3/8	3 1/4			3 1/2	FBA to M8, M9
44	1	3/8	3 1/4			3 1/2	FBA to M3
45	2	3/8	3 1/4			3 1/2	FBA to M3, M4
46	3	3/8	3 1/4			3 1/2	M5 to FBI, F32, F33, FBI to M4

FIELD RIVETS AND BOLTS

NAME DATE

PRY 2/20/54

IN CHARGE OF MARKS ORDER No.

TF Q4149

Div. 1 SHEET No.

EF102

Bangor-Brewer Bridge - Bangor, Me.

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	24	2	28			50 8/16	B35 to M119-M126
2	32	2	48			2 1/2 10 1/16	B35, B38 to B39, B42
3	80	2	534			3 3/8 10 1/16	B35, B38 to B39, B42
4	8	2	7			4 3/8 8 1/8 1/2	B35, B38 to B39, B42 (top)
5	8	2	7			4 3/8 8 1/8 1/2	B35, B38 to B39, B42 (top)
6	16	2	634			4 3/8 8 1/8 1/2	B35, B38 to B39, B42 (web)
7	40	2	34			1 3/8 2 1/2 1/2	B35, B38 to B39, B42 (web)
8	40	2	42			2 3/8 2 1/2 1/2	B35 to M63, D42 B38 to M54, D73
9	72	2	28			1 3/8 2 1/2 1/2	B35 to M63, D47 B38 to M54, D45
10	72	2	28			2 3/8 2 1/2 1/2	B35, B38
11	20	2	48			4 3/8 8 1/8 1/2	B35 to M62 B38 to M53
12	4	2	64			4 3/8 8 1/8 1/2	B35 to M62 B38 to M53
13	4	2	64			3 3/8 2 1/2 1/2	B35 to D65 B38 to D64
14	8	2	52			3 3/8 2 1/2 1/2	B35 to M62, D65 B38 to M53, D64
15	72	2	28			1 3/8 2 1/2 1/2	B35 to M60, M61, D41, D78
16	72	2	28			5 8/16	B38 to M133-M140
17	24	2	28			3 3/8 2 1/2	B38 to M51, M52, D32, D77
18	72	2	28			2 3/8 10 1/16	B36, B37 to B40, B41
19	32	2	48			3 3/8 10 1/16	do
20	64	2	534			4 3/8 1 1/16 10 1/16	B36, B37 to M175
21	2	2	634			4 3/8 1 1/16 10 1/16	do
22	6	2	7			4 3/8 1 1/16 10 1/16	do
23	6	2	7			4 3/8 1 1/16 10 1/16	do
24	2	2	74			4 3/8 1 1/16 10 1/16	B36, B37 to D42, 71, 73
25	32	2	634			1 3/8 2 1/2 1/2	B36, B37 to B40, B41 (web)
26	60	2	34			2 3/8 2 1/2 1/2	do
27	20	2	42			3 3/8 2 1/2 1/2	B36, B37 to D42, 71, 73, 64, 65, 70
28	80	2	24			4 3/8 1 1/16 10 1/16	B36, B37 to M177
29	2	2	634			4 3/8 1 1/16 10 1/16	do
30	6	2	7			4 3/8 1 1/16 10 1/16	do
31	6	2	7			4 3/8 1 1/16 10 1/16	do
32	2	2	74			4 3/8 1 1/16 10 1/16	B36, B37 to D42, 64, 65, 70
33	32	2	7			1 3/8 2 1/2 1/2	B36, B37 to D45, 46, 47
34	40	2	28			3 3/8 2 1/2 1/2	B36, B37 to D33, 40, 41, 42, 73, 78
35	64	2	24			5 8/16	B39 to M127-M132
36	18	2	28			4 3/8 2 1/2 1/2	B39 to M66
37	4	2	7			4 3/8 2 1/2 1/2	do
38	4	2	7			4 3/8 2 1/2 1/2	B39 to D44
39	8	2	7			2 3/8 2 1/2 1/2	B39
40	10	2	48			1 3/8 3 3/8 3/8	B39 to M64, D44
41	36	2	28			1 3/8 3 3/8 3/8	B39 to M67, D50
42	36	2	24			1 3/8 3 3/8 3/8	B39 to M65, M68, D22, D38
43	72	2	24			5 8/16	B42 to M141-M147
44	21	2	28			4 3/8 5 3/8 1 1/8 1/2	B42 to M57
45	4	2	7			4 3/8 5 3/8 1 1/8 1/2	do
46	4	2	7				

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	148	2		#7 Bolt Hex		1 3/8 2 1/2 1/2	ED9, ED10 to D48, D7, D57, D20, D49
2	4	2		#9		2 2 2 1/2 1/2	ED9 to D6A
3	4	2		#9		2 2 2 1/2 1/2	ED9 to D9
4	8	2		#11		2 3/8 2 1/2 1/2 1/2	ED9 to D20, D49
5							
6							
7	164 Washers	2 3/8					For use under nut of Dandelot Rivet
8	328 Washers	2 3/8					Bolts as required to build up required grip as noted on lines 1, 2, 3, & 4.
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
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36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	20	2				2 3/8 2 1/2	B29 to M1, D20
2	10	2				1 3/8 2 1/2	B29 to D21
3	10	2				3 3/8 2 1/2	B29 to D22
4	10	2				1 3/8 2 1/2	B29
5	10	2				1 3/8 2 1/2	B29 to M36
6	36	2				1 3/8 2 1/2	B29 to D23
7	24	2				1 3/8 2 1/2	B29 to M37, D9A
8	8	2				5 8/16	B34 to M111-118
9	8	2				4 3/8 10 1/16 1 3/8	B34 to M40
10	10	2				2 3/8 2 1/2 1/2	B34 to D30
11	36	2				1 3/8 2 1/2	B34
12	36	2				1 3/8 2 1/2	B34 to M40, D30
13	36	2				1 3/8 2 1/2	B34 to D27, M39
14	36	2				1 3/8 2 1/2	B34 to D33, M41
15	8	2				3 3/8 2 1/2	B34 to D36, M42
16	8	2				4 3/8 10 1/16 1 3/8	B32, B33 to M176
17	32	2				4 3/8 10 1/16 1 3/8	do
18	40	2				3 3/8 2 1/2	B32, B33 to D34, D32
19	32	2				3 3/8 2 1/2	do
20	32	2				3 3/8 2 1/2	B37, B33 to D27, D29
21	32	2				3 3/8 2 1/2	B37, B33 to D36, D38
22	40	2				1 3/8 2 1/2	B32, B33 to D37, D35
23	6	2				1 3/8 2 1/2	M35 to D21
24	24	2				1 3/8 2 1/2	M29, B33, 45 to D13, 17, 27, 29
25	12	2				2 3/8 1 1/2 1/2	M37, M44 to D19, D19A
26	6	2				2 3/8 1 1/2 1/2	M32 to D35
27	6	2				2 3/8 1 1/2 1/2	M41 to D33
28	10	2				1 3/8 2 1/2	M29, 35, 39, 45 to FB14, 15, 16, 17, 22, 23
29	4	2				1 3/8 2 1/2	M32, M41 to FB20, 21, 28, 29
30	4	2				1 3/8 2 1/2	M37, M44 to FB14, 17, 24, 25
31	12	2				1 3/8 2 1/2	M36 to D23
32	4	2				1 3/8 2 1/2	M28, M24 to D49, D20
33	4	2				1 3/8 2 1/2	M33, M42 to D36, D38
34	8	2				1 3/8 2 1/2	M28, 33, 34, 42 to FB14, 21, 23, 29
35	2	2				1 3/8 2 1/2	M36 to FB23, 24
36	16	2				2 3/8 1 1/2 1/2	M30, M38 to D49, D26
37	8	2				2 3/8 1 1/2 1/2	M31 to D32
38	8	2				2 3/8 1 1/2 1/2	M40 to D30
39	4	2				1 3/8 2 1/2	M20, M32 to FB17, 25, 26
40	4	2				1 3/8 2 1/2	M31, M40 to FB19, 20, 27, 28
41	24	2				2 3/8 1 1/2 1/2	D24, D25, D26 to M175
42	24	2				2 3/8 1 1/2 1/2	D30, D31, D32 to M176
43							
44							
45							
46							

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	21	3/8	28			5/8	B43 to M48-M154
2	16	3/8	38			1 1/8	B43 to B47 (top) B46 to B50 (top)
3	40	3/8	40			2 1/2	do do
4	4	3/8	52			3 1/2	B43 to M84 B46 to M74
5	4	3/8	52			3 1/2	do do
6	16	3/8	34			1 1/2	B43 to B47 (bottom) B46 to B50 (bottom)
7	40	3/8	40			2 1/2	do do
8	8	3/8	5			3 1/2	B43 to D83 B46 to D82
9	40	3/8	34			1 1/2	B43 to B47 (web) B46 to B50 (web)
10	40	3/8	34			1 1/2	do do
11	20	3/8	4			2 1/2	do do
12	20	3/8	4			2 1/2	do do
13	72	3/8	28			1 1/2	B43 to M84, D83 B46 to M74, D82
14	20	3/8	4			2 1/2	B43 B46
15	72	3/8	28			1 1/2	B43 to M81, D88 B46 to M71, D86
16	4	3/8	54			3 1/2	B43 to M81 B46 to M71
17	4	3/8	54			3 1/2	do do
18	8	3/8	48			2 1/2	B43 to D68 B46 to D66
19	72	3/8	28			1 1/2	B43 to M82, D83 B46 to M72, D82
20	108	3/8	24			3 1/2	B43 to M78, 80, 83, D80, 76, 61
21	21	3/8	28			5/8	B46 to M143-M169
22	108	3/8	24			3 1/2	B46 to M169, 70, 73, D52, 75, 59
23	16	3/8	38			1 1/2	B44, B45 to B48, B49 (top)
24	40	3/8	40			2 1/2	do
25	2	3/8	54			3 1/2	B44, B45 to M179 (end of 1)
26	4	3/8	52			3 1/2	do
27	2	3/8	52			3 1/2	do
28	16	3/8	4			2 1/2	B44, B45 to B48, B49 (bottom)
29	32	3/8	48			2 1/2	do
30	16	3/8	52			3 1/2	B44, B45 to D67, 82, 83
31	40	3/8	38			1 1/2	B44, B45 to D67, 82, 83
32	60	3/8	32			1 1/2	B44, B45 to B48, B49 (web)
33	20	3/8	44			2 1/2	do
34	40	3/8	24			3 1/2	B44, B45 to D67, 82, 83
35	40	3/8	24			3 1/2	B44, B45 to D66, 67, 68
36	2	3/8	5			3 1/2	B44, B45 to M179 (chase)
37	4	3/8	5			3 1/2	do
38	2	3/8	52			3 1/2	do
39	16	3/8	48			2 1/2	B44, B45 to D66, 67, 68
40	40	3/8	28			1 1/2	B44, B45 to D63, 43, 81
41	96	3/8	24			3 1/2	B44, B45 to D52, 79, 80, 74, 75, 76, 57, 69, 61
42	40	3/8	28			1 1/2	B44, B49 to D53, 53, 55
43	40	3/8	28			1 1/2	B44, B49 to D54, 57, 58
44	64	3/8	24			3 1/2	B44, B49 to D76, 75, 76, 59, 69, 61
45	24	3/8	28			5/8	B47 to M155, 154, 157, 161
46	24	3/8	28			5/8	B50 to M176, 177, 178, 158, 174

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	128	3/8		#7 Bolt Hex	1 1/4	1/2	ED15, ED16 to Diaphragms
2	8	3/8		#9 Bolt Hex	2	1/2	ED16 to D39, D41
3	8	3/8		#9 Bolt Hex	2	1/2	ED15 to D36, D38
4	144	Washers 2 1/2"		4" x 1/2" x 1/2" Plate			For use under nut of Diagonal Rivet
5	288	Washers 2 1/2"		4" x 1/2" x 1/2" Plate			Bolts required to build up required grip as noted on lines 1, 2 & 3

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	8	3/8	7			3/4	B42 to D43
2	10	3/8	48			2 1/4	B42
3	36	3/8	28			1 1/2	B42 to M57, D43
4	36	3/8	28			1 1/2	B42 to M58, D48
5	72	3/8	24			3 1/2	B42 to M56, M58, D47, D51
6	2	3/8	64			4 1/2	B49, B41 to M178
7	6	3/8	7			4 1/2	do
8	6	3/8	7			4 1/2	do
9	2	3/8	74			4 1/2	B49, B41 to D43, 44, 72
10	32	3/8	7			3 1/2	B49, B41 to D43, 44, 72
11	40	3/8	24			1 1/2	B49, B41 to D48, 49, 50
12	40	3/8	24			3 1/2	B49, B41 to D27, 28, 29, 32, 34, 51
13	32	3/8	24			1 1/2	M58 to D48
14	6	3/8	24			1 1/2	M67 to D50
15	6	3/8	38			1	M52, 56, 61, 65 to D27, 29, 77, 78
16	24	3/8	22			1	M51, 57, 60, 68 to D38, 39, 41, 51
17	8	3/8	22			2 1/4	M54 to D45
18	6	3/8	4			2 1/4	M63 to D47
19	6	3/8	48			1 1/2	M53, 58, M63, M74 to FB40, 41, 44, 45, 32, 34, 37
20	8	3/4		2 1/2 Hex Hex	Ordinary	1 1/2	M51, 52, 56, 57, 60, 61, 65, 68 to Fascias
21	16	3/4		2 1/2 Hex Hex	Ordinary	2 1/4	M53 to D64
22	8	3/8	4			2 1/4	M62 to D65
23	8	3/8	44			2 1/4	M55, M57 to D43, D73
24	16	3/8	48			2 1/4	M64, M66 to D42, D44
25	16	3/8	48			2 1/4	M53, 55, 57, 63, 69, 66 to Fascias
26	12	3/4		2 1/2 Hex Hex	Ordinary	2 1/4	D43, 44, 49, 65, 70, 71, 72, 73 to M175, 177, 178
27	72	3/8	4 1/2			2 1/4	

0 1 2 3 4 5 INCHES

INDEX TO MARKS
AMERICAN BRIDGE COMPANY

GENERAL MARK G NAME OF MEMBER SHEET LETTER
GIRDERS

NO.	1	2	3	4	5	6	7	8	9
1	101	101	101	101					
2	201	201	201	201					
3	301	301	301	301					
4	401	401	401	401					
5	501	501	501	501					

GENERAL MARK D NAME OF MEMBER SHEET LETTER
DIAGONALS

NO.	1	2	3	4	5	6	7	8	9
1	103	103	103	103	105	105	105	105	105
2					105	105	105	105	105
3					105	105	105	105	105
4									
5									
6									
7									
8									
9									

GENERAL MARK M NAME OF MEMBER SHEET LETTER
SHIMS

NO.	1	2	3	4	5	6	7	8	9
1									
2									
3	302	302			107	107	107	107	107
4									
5									
6									
7									
8									
9									

GENERAL MARK F NAME OF MEMBER SHEET LETTER
FASCIAS

NO.	1	2	3	4	5	6	7	8	9
1	107	107	107	107	107	107	107	107	107
2	107	107	107						
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK CF NAME OF MEMBER SHEET LETTER
CROSS FRAMES

NO.	1	2	3	4	5	6	7	8	9
1	102	102	102	102	103	103	104	102	103
2									
3									
4									
5									
6									
7									
8									
9									

GENERAL MARK S NAME OF MEMBER SHEET LETTER
STRUTS

NO.	1	2	3	4	5	6	7	8	9
1	108	108	108	108	108	108	108	108	108
2	108	108	108	108	108	108	108	108	108
3	108	108	108	108	108	108	108	108	108
4									
5									
6									
7									
8									
9									

GENERAL MARK BR NAME OF MEMBER SHEET LETTER
BRACKETS

NO.	1	2	3	4	5	6	7	8	9
1	106	106	106	106	106	108	106	108	106
2									
3									
4									
5									
6									
7									
8									
9									

SUMMARY OF SHEETS

CONTENTS	SHEET LETTER	SHEET NUMBER
EXPANSION DAMS ED1, 2, 3, 4	—	302
LADDERS L1, L2, L3	—	202
MANHOLE - M4	—	202

INDEX TO MARKS

NAME OF STRUCTURE
Bangor-Brewer Bridge, Penobscot River, State of Maine

DATE
FEL

DRAWING
TRANTON

ORDER NO.
Q4150

SHEET NO.
K1

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	128	3/8	#7	But Hex	1 1/4	2 1/2	ED21, ED22 to Diaphragms
2	16	3/8	#9	But Hex	2 1/4	2 1/2	ED21, ED22 to D38, S1, S2, S3
3	64	3/8	#7	But Hex	1 1/4	2 1/2	ED27 to Diaphragms
4	4	3/8	#11	But Hex	2 1/4	2 1/2	ED27 to D56
5	4	3/8	#12	But Hex	2 1/4	2 1/2	ED27 to D58
6	4	3/8	#6	But Hex	1 1/4	2 1/2	ED28 to Cross Frames Q4150
7	4	3/8	#10	But Hex	2 1/4	2 1/2	ED28 to CF1-Q4150
8	4	3/8	#9	But Hex	1 1/4	2 1/2	ED28 to CF1-Q4150
9							
10	288	Washers 2 1/2" x 4" thick to 1/2" hole					For use under nut of Dardic
11	576	Washers 2 1/2" x 4" thick to 1/2" hole					Rivet Bolts as required to build up required grip as noted on lines 1 thru 8.
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FIELD RIVETS AND BOLTS

NAME
PRY

DATE
2-23-54

DESIGNED
TF

IN CHARGE OF
MARKS
ORDER No.
Q4149

DIV. 4
SHEET No.
EF403

NAME OF STRUCTURE
Bangor-Brewer Bridge-Bangor, Me.

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	72	3/8	2 1/2				847, 850 to M75, M85, D53, S5
2	72	3/8	2 1/2				847, 850 to M78, M88, D56, D58
3	144	3/8	2 1/2				847, 850 to M76, 78, 82, D57, 59, 61
4	48	3/8	2 1/2				M78, 76, 78, 82, 84, 87 to D57, 59, 61
5	4	3/8	2 1/2				M 60 M79 to D57 D80
6	4	3/8	2 1/2				M75 to D53
7	4	3/8	2 1/2				M85 to D55
8	20	3/4	2 1/2				M87, 70, 72, 74, 76, 78, 80, 82, 84, 87 to Fascias
9	4	3/4	2 1/2				M75, M85 to Fascias
10	6	3/4	2 1/2				M75 to D53
11	6	3/4	2 1/2				M82 to D53
12	2	3/4	2 1/2				M78 to D56
13	16	3/4	2 1/2				M88 to D58
14	16	3/4	2 1/2				M71, M74 to D66, D82
15	16	3/4	2 1/2				M81, M84 to D68, D83
16	32	3/4	2 1/2				M72, 74, 78, 81, 83, 84, 87 to Fascias
17							D66, 67, 68, 82, 83 to M179
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AMERICAN BRIDGE COMPANY

STANDARD WASHERS

TYPE X V P

LOCATION

Calculated Weight

SHIPMENTS

TURNED BOLTS

Div. 1

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

ORDER No. Q4150

SHEET No. C102

AMERICAN BRIDGE COMPANY

FIELD RIVETS AND BOLTS

FOR DIV. 1

NAME OF STRUCTURE

BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

ORDER No. Q4150

PAGE No. C101

AMERICAN BRIDGE COMPANY

SKETCH SHEET

RIVETS

BOLTS

Rev 2-18-54

MARKS CHG

Advance Bill Page

NAME OF STRUCTURE

STATE OF MAINE - STATE HIGHWAY COMMISSION - BANGOR-BREWER BRIDGE OVER PENOBSCOT RIVER - BANGOR, ME.

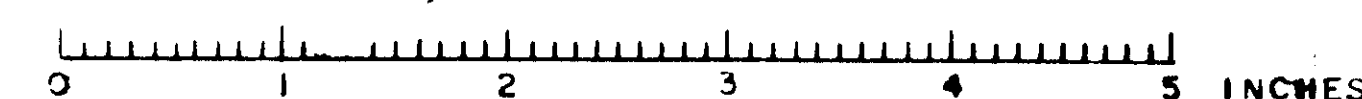
TURNED BOLTS
AMERICAN BRIDGE COMPANY

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AMERICAN BRIDGE COMPANY

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FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

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AMERICAN BRIDGE COMPANY

STANDARD WASHERS

PLATE LOCK BEVEL

TYPE X V P

DIMENSION A GRID + 1/16" GRIP - 1/16" ON 1/8"

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

NO. REQD. TYPE OF HEAD HOLE SIZE OF HEAD HOLE DI. OZ. A B L GRID TYPE OF WASH. NO. OF WASH. PER BOLT IN AND OUT OF WASH. OF WASH. OF EACH BOLT LOCATION SHEET NO. CALCULATED WEIGHT TOTAL SHIPMENTS

8 Hex 1 1/2 DE 3 1/2 6 1/2 1 1/2 6 1/2 Hex 1 X 1-24-3

2 Hex 1 1/2 DE 3 1/2 5 1/2 1 1/2 5 1/2 Hex 1 X 1-24-3

6 Hex 1 1/2 DE 3 1/2 6 1/2 1 1/2 6 1/2 Hex 1 X 1-24-3

16 Hex 1 1/2 DE 3 1/2 5 1/2 1 1/2 5 1/2 Hex 1 X 1-24-3

16 Hex 1 1/2 DE 3 1/2 2 1/2 1 1/2 2 1/2 Hex 1 X 1-24-3

GIR. to Pedestal at Piers

GIR. to Pedestal at Abut

TURNED BOLTS DIV. 3

DATE FEB 1911

DRAWING TRENTON

FABRICATION AMBRIDGE

ORDER No. Q4150

SHEET No. C302

NAME OF STRUCTURE BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

AMERICAN BRIDGE COMPANY

FIELD RIVETS AND BOLTS

NO. SHIPPED DIAM. RIVETS BOLTS LENGTH UNDER HEAD HEAD BUT WASH. TYPE OF BOLT GRIP

1 8 12 3 6 4 11 5

2 192 231 5 1/2 3 1/2 24 1/2

3 4 6 5 5 1/2 6 1/2

4 4 6 4 1/2 5 1/2 6 1/2

5 4 6 4 1/2 5 1/2 6 1/2

6 12 17 4 2 1/2 11 5

7 67 82 3 1/2 2 1/2 7 1/2

8 62 70 3 1/2 1 1/2 5 1/2

9 39 50 3 1/2 1 1/2 4 1/2

10 485 560 3 1/2 1 1/2 4 1/2

11 266 317 3 1/2 1 1/2 4 1/2

12 594 694 2 1/2 1 1/2 4 1/2

13 136 167 2 1/2 1 1/2 4 1/2

14 394 464 2 1/2 1 1/2 4 1/2

15 548 642 2 1/2 1 1/2 4 1/2

16 40 50 4 1/2 2 1/2 4 1/2

17 48 58 3 1/2 1 1/2 4 1/2

18 8 11 3 3 Hex Hex Bev Ordinary 5 1/2

19 20 25 2 1/2 1 1/2 1 1/2 1 1/2

20 28 36 Standard Beveled Washers - 1/16" hole

21 16 16 Standard Beveled Washers - 1/16" hole - For turned bolts.

FIELD RIVETS AND BOLTS FOR DIV. 3

DATE FEB 1911

DRAWING TRENTON

FABRICATION AMBRIDGE

ORDER No. Q4150

PAGE No. C301

NAME OF STRUCTURE BANGOR-BREWER BRIDGE

PENOBSCOT RIVER, ME.

AMERICAN BRIDGE COMPANY

FIELD RIVETS AND BOLTS

NO. SHIPPED DIAM. RIVETS BOLTS LENGTH UNDER HEAD HEAD BUT WASH. TYPE OF BOLT GRIP

1 8 19 3 1/2 4 1/2 2 1/2

2 12 25 4 1/2 2 1/2

3 28 44 4 1/2 2 1/2

4 90 115 4 1/2 2 1/2

5 61 80 4 1/2 2 1/2

6 48 65 3 1/2 2 1/2

7 8 19 3 1/2 2

8 4 15 3 1/2 1 1/2

9 8 19 3 1/2 1 1/2

10 9 20 3 1/2 1 1/2

11 64 85 3 1/2 1 1/2

12 4 15 2 1/2 1 1/2

13 56 75 2 1/2 1 1/2

14 34 50 2 1/2 1 1/2

15 6 17 2 1/2 1 1/2

16 15 28 2 1/2 1 1/2

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FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	SHIPMENTS
				LENGTH INCHES	HEAD INCHES	
1	8	11	3/8	6 1/2		4 1/2
2	232	277		5 1/2		3 1/2
3	4	6		5 1/2		3 1/2
4	4	6		5 1/2		3 1/2
5	16	23		4 1/2		3
6	97	122		4 1/2		2 1/2
7	18	25		4 1/2		2 1/2
8	274	325		4 1/2		2 1/2
9	76	98		4 1/2		2 1/2
10	241	288		4 1/2		2 1/2
11	20	27		4		1 1/2
12	35	45		3 1/2		1 1/2
13	63	75		3 1/2		1 1/2
14	166	200		3 1/2		1 1/2
15	90	114		3 1/2		1 1/2
16	60	70		2 1/2		1 1/2
17	878	1020		2 1/2		1 1/2
18	242	288		2 1/2		1 1/2
19	490	574		2 1/2		1 1/2
20	780	217		2 1/2		1 1/2
21	216	260		2 1/2		1 1/2
22	24	32		3 1/2		2
23						
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28	4	6	3/4	3 Hex	Hex. Bev. Ordinary	2 1/2
29	24	30	3/4	2 1/2 Hex	Hex. Bev. "	1 1/2
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33						
34	28	36		Standard Beveled Washers - 1/2" Hole		8
35	16	16		Standard Beveled Washers - 1/2" Hole - for turned bolts		9
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FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS	BOLTS	SHIPMENTS
				LENGTH INCHES	HEAD INCHES	
1	8	20	3/8	4 1/2		5 1/2
2	22	36		3 1/2		2 1/2
3	147	180		3 1/2		1 1/2
4	16	30		3 1/2		1 1/2
5	100	125		3 1/2		1 1/2
6	33	50		3 1/2		1 1/2
7	32	50		2 1/2		1 1/2
8	28	45		2 1/2		1 1/2
9	6	16		2 1/2		1 1/2
10	18	32		2 1/2		1 1/2
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FIELD RIVETS AND BOLTS
AMERICAN BRIDGE COMPANY

AMERICAN BRIDGE COMPANY																
UNITED STATES STEEL CORPORATION PROPRIETARY																
LINE NO.	ACTUAL NUMBER REQ'D.	NO. SHIPPED	DIAM.	RIVETS		BOLTS					SHIP	G.R.	G.W.	WEIGHTED QUANTITY TOTAL	SHIPMENTS	
				FLAT HEAD	HEX HEAD	LENGTH UNDER HEAD	HEAD	DRY	HEAVY-DRY	TYPE OF BOLT						
1	8	11	7/8			3 3/8	Button	Hex		Double Rivet	2 1/2	10				
2	64	72	3/8			2 3/8					1 1/2	6	(SR)			
3	72	83	Washers	2 1/2"	" 4"	1 1/2"	Hole									
4	144	166	"	2 1/2"	" 8"	1 1/2"	Hole									
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FIELD RIVETS AND BOLTS

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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

FIELD RIVETS AND BOLTS				NAME		DATE		DRAWING		IN CHARGE OF		SHEET No.	
FOR ONE DIV. - DIVS 1 & 3				Eam				Trouton		Marks		EF102	
								FABRICATION		ORDER No.			
								Amb.		QA150			
NAME OF STRUCTURE													
BANGOR - BREWER BRIDGE PENOBSCOT RIVER, ME.													

ERECTORS LIST FIELD RIVETS AND BOLTS AMERICAN BRIDGE

NO. P.C.B.	DIAM.	RIVETS		BOLTS				TYPE OF BOLT	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
				LENGTH UNDER HEAD	HEAD	SHANK DIAM.	SHANK LENGTH				
1	40	3/8	4 1/2						2 1/2	3/8	SdK Dkt. & Cr. Fr. Conn. L. to Gir. of Per
2	12	3/8	4						2 1/2	3/8	SdK Brtt. conn. L. to Gir.
3	96	3/8	3 1/2						1 1/2	3/8	" " " "
4	4	3/8	5						3 1/2	3/8	BRG ^E (Dw3) BR1#8 (Dw1) to Gir. Flg
5	4	3/8	4 1/2						2 1/2	3/8	" " " "
6	40	3/8	3 1/2						2 1/2	3/8	BR2 ^E (Dw1), BR5 ^E (Dw3) " " "
7	4	3/8	4 1/2						2 1/2	3/8	BR7 ^E (Dw1) BR9 ^E (Dw3) " " "
8	4	3/8	4 1/2						2 1/2	3/8	" " " "
9	12	3/8	2 1/2						1 1/2	3/8	Fuscia Struts to Gir. Flg
10	36	3/8	3 1/2						1 1/2	3/8	" " " "
11	6	3/8	3 1/2						2 1/2	3/8	" " " "
12	18	3/8	3 1/2						1 1/2	3/8	" " " "
13											
14	192	7/8	2 1/2						1/2	5/8	D6 to Girs
15	120	3/8	2 1/2						3/8	5/8	D7, D8, D9, D10 to Girs. G2 ^A , G3 ^A , G4 ^A
16	24	3/8	2 1/2						1/2	3/8	D8, D9 to G12
17	36	3/8	2 1/2						3/8	5/8	CF1, CF2 to Gir. Flg.
18	190	3/8	2 1/2						1/2	5/8	CF3 ^E , CF5, CF9 ^E , CF11 to CFM. mol. to Gir. Rg
19											
20	16	3/8	2 1/2						1/2	7/8	BRG (Dw1)
21	60	3/8	2 1/2						5/8	1 1/2	BR18 (Dw3) to Cross Frames
22	12	3/8	2 1/2						5/8	1 1/2	BR2 (Dw1)
23											BR5 (Dw3)
24	29	3/8	3 1/2						2	3/8	BR7 (Dw1)
25	29	3/8	3 1/2						3/8	3/8	BR2 (Dw1)
26	10	3/8	3 1/2						1 1/2	3/8	" " " "
27	10	3/8	3 1/2						1 1/2	3/8	S30 " "
28											S30 " "
29	36	3/8	3 1/2						1 1/2	3/8	BR1, BR5, BR8 to Gir. Stiff.
30	180	3/8	2 1/2						1 1/2	3/8	BR2 (Dw1)
31	36	3/8	3 1/2						1 1/2	3/8	BR5 (Dw3)
32											BR7 (Dw1)
33	78	3/8	2 1/2						1 1/2	3/8	BR9 (Dw3)
34	130	3/8	2 1/2						1 1/2	3/8	CF1 ^E , CF2 to Gir. Stiff.
35	180	3/8	2 1/2						1 1/2	3/8	CF3 ^E , CF4 ^E , CF11 to CFM. mol. to Ext. Girs
36	80	3/8	3 1/2						1 1/2	3/8	" " , CF5, CF11 to CFM. mol. to Int. Girs
37											CF4, CF6 to Gir.
38	32	3/8	2 1/2						1 1/2	3/8	D1 to Gir
39	20	3/8	2 1/2						1 1/2	3/8	D3 to Gir
40	10	3/8	2 1/2						1 1/2	3/8	S30 to Gir
41	16	3/8	2 1/2						1 1/2	3/8	S26, S27 to Gir
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FIELD RIVETS AND BOLTS

For

AMERICAN BRIDGE COMPANY

[illegible]

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	TYPE OF BOLT	
1	8	3/8	4			Subk. Brkt. conn. L to Gir
2	4	3/8	4.4			" " " " " "
3	64	3/8	3.6			" " " " " "
4	32	3/8	3.4			" " " " " "
5	40	3/8	4.8			" " " " " " at Pier
6						
7						
8	32	7/8	4.8			Subk Brkt. to Gir. Flg.
9	8	7/8	4.8			" " " " " "
10	8	7/8	4.8			" " " " " "
11	4	7/8	5.8			" " " " " " At Field Spl.
12	4	7/8	5.4			" " " " " "
13						
14						
15	16	7/8	2.8			SEE 57E 58E (Div. 5) to Gir
16	26	7/8	3.8			Subk Struts to Gir
17	6	7/8	4.8			" " " " " "
18	6	7/8	3.8			" " " " " "
19	18	7/8	4.2			" " " " " "
20	6	7/8	4.8			" " " " " "
21	6	7/8	4.8			" " " " " " At Field Spl.
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23						
24						
25	192	7/8	2.8			D11, D12 to Gir
26	60	7/8	2.2			D13 " Gir
27	56	7/8	2.2			D14 " "
28	14	7/8	2.2			D15 " Int. Gir.
29	14	7/8	2.8			D15 " Ext. "
30	16	7/8	2.8			D16 " " "
31	16	7/8	2.8			D16 " Int. Gir.
32	64	7/8	2.8			D17 " Girs.
33	190	7/8	2.8			CFB, CFS, CFA, CFH, CFI, CFS to Gir Flg
34	38	7/8	2.8			CFH, CFS, CFI, CFI, CFI
35						
36						
37	60	7/8	2.2			BRK (Div. 5) Cr. Frames
38	12	7/8	2.8			BRK (Div. 5) " "
39	12	7/8	2.2			BRK (Div. 5) " "
40						
41	29	7/8	3.2			S28, S29 to Gir. Flgs.
42	29	7/8	3.8			" " " " " "
43	10	7/8	3.4			S16 " " "
44	10	7/8	3.2			" " " " " "

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	TYPE OF BOLT	
1	3	7/8	3.8			hk 101 G4A to G4A
2	9	7/8	3.8			" " " " " "
3						
4						Field Rivets Both Flg.
5	12	3/4				G1A
6	12	3/4				G3A
7	12	3/4				G4A
8						Field Rivets Top Flg.
9	32	2 1/2				All girders
10	64	3/4				
11	16	3/2				
12						
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	TYPE OF BOLT	
1	6	7/8	2.8			pa 101 G2A to G2A
2	8	7/8	2.8			pt 101 G2A " "
3	7	7/8	3.8			pd 101 G2A " "
4	12	3/4				" " " " " "
5	8	3/4				ph 101 G2A " "
6	8	3/4				pp 101 G2A " "
7	5	3/4				py 101 G2A " "
8	3	3/4				" " " " " "
9	6	3/4				hb 101 G2A " "
10	12	3/4				pba 101 G2A " "
11	13	3/4				ack 101 G2A " "
12	10	3/4				hh 101 G2A " "
13	2	4 1/2				" " " " " "
14	6	3/2				hp 101 G2A " "
15	2	4 1/2				" " " " " "
16	12	3/4				pbn G2A " "
17	12	3/4				pbn G2A " "
18	6	3/4				hm 101 G2A " "
19	9	3/4				kg 101 G2A " "
20	10	3/4				hg 101 G1A to G1A
21	2	4 1/2				" " " " " "
22	6	2 1/2				pa 101 G3A to G3A
23	8	2 1/2				pe 101 G3A " "
24	7	3/4				pd 101 G3A " "
25	11	3/4				" " " " " "
26	8	3/4				pk 101 G3A " "
27	8	3/4				pm 101 G3A " "
28	8	3/4				pb 101 G3A " "
29	6	3/4				hb 101 G3A " "
30	5	3/4				pbd 101 G3A " "
31	7	3/4				" " " " " "
32	7	3/4				pbf 101 G3A " "
33	6	3/4				" " " " " "
34	6	3/4				hp 101 G3A " "
35	2	4 1/2				" " " " " "
36	10	3/2				hh 101 G3A " "
37	2	4 1/2				" " " " " "
38	12	3/4				pbt 101 G3A " "
39	12	3/4				pbb 101 G3A " "
40	6	3/4				hm 101 G3A " "
41	9	3/4				kg 101 G3A " "
42	18	2 1/2				pea 101 G3A " "
43	6	2 1/2				" " " " " "
44	11	3/4				hc 101 G4A to G4A
45	10	3/4				hh 101 G4A to G4A
46	2	4 1/2				" " " " " "

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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1	4	3/8					Field Rivets Top Flg G1B, G4B
2	8	3/8					"
3	16	4/4					"
4	28	2 1/2					Field Rivets Top Flg G2B, G3B
5	4	3/8					"
6	4	2 1/2					"
7	8	3/2					"
8	16	4					"
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1							RATES TO GIRDER G2B
2	8	3/8					pd201 G2B
3	6	2 1/2					pf201 G2B
4	12	3/8					"
5	8	2 1/2					pk201 G2B
6	8	3/4					pt201 G2B
7	8	3/8					py201 G2B
8	7	3/8					pbd201 G2B
9	9	3/4					pag201 G2B
10	3	4					"
11	6	3/8					hm201 G2B
12	6	3/8					hm201 G2B
13	14	4/4					pbk201 G2B
14	12	4/8					bc201 G2B
15	2	4/8					"
16	8	4/8					hw201 G2B
17	2	4/8					"
18	4	4/4					pba201 G2B
19	12	3/8					"
20	9	4					kg201 G2B
21							PLATES TO GIRDER G3B
22	2	2 1/2					pa201 G3B
23	6	2 1/2					pf201 G3B
24	12	3/8					"
25	4	2 1/2					pm201 G3B
26	4	3/8					"
27	8	3/8					pp201 G3B
28	8	3/8					py201 G3B
29	7	3/8					pbd201 G3B
30	12	4					pag201 G3B
31	6	3/8					hm201 G3B
32	14	4/4					pbk201 G3B
33	8	4/8					hw201 G3B
34	2	4/8					"
35	16	4/4					pav201 G3B
36	9	4					kg201 G3B
37	15	2 1/2					pca201 G3B
38	6	2 1/2					"
39							RATES TO GIRDER G4B
40	12	4/8					hb201 G4B
41	2	4/8					"
42	24	4/4					Field Rivet Bot Flg G1B, G4B
43	12	4					Field Rivet Bot Flg G2B
44	12	4/4					Field Rivet Bot Flg G3B
45	28	2 1/2					Field Rivet Top Flg G1B, G4B
46	4	3/8					"

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	NUT	WASHER	
1							
2	12	3/8					Ladder to Gir.
3	12	3/8					"
4							
5							
6	124	3/8					Solew Brkts & Cr. Frs. to Gir. Stiffeners
7	216	3/8					" " to Stiffs.
8	156	3/8					Cr. Frs. to Ext. Girs.
9	216	3/8					" " Int. "
10							
11							
12	20	3/8					D3 to Gir
13	32	3/8					D1 "
14	20	3/8					D3 " C/F
15	32	3/8					D1 " C/F
16	12	3/8					D2 " C/F, C/F
17	8	3/8					" " S2B, S29
18	4	3/8					" " S16
19	16	3/8					S2B, S29 to Gir Guss.
20	10	3/8					S16 " " "
21							
22							Field Splice
23	225	3/8					Cov. Pls. to Flg. Ls
24	39	3/8					Spl. Pls. to Bot Flg. Ls to Guss Pls.
25	235	3/8					Cov. Pls. to Flg. Ls
26	19	3/8					" " Bot. Flg. Ls to Guss Pls.
27	232	3/8					Spl. Pls. to Flg. Ls to web
28	4	3/8					Guss Pls. to G1
29	8	3/8					" " " " to Stiffs.
30	504	3/8					Spl. Pls. to web
31	72	3/8					" " " " to Stiffs
32							
33							
34	4	3/8					Fascia I to BR7 (Div 2)
35	24	3/8					" " BR7 (Div 2)
36							
37	6	DF					Gir. to Pedestal & Piers
38	6	DF					"
39	2	DF					"
40	2	DF					"
41	16	DF					"
42							
43							
44	48	3/8					G1B to G4B, G1D to G4D
45	24	3/8					G1B to G4B, G1D to G4D
46	24	3/8					G2B to G3B, G2D to G3D

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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	RUT	WASH-ER	TYPE OF BOLT
1	8	3/8	2 5/8				PLATES TO GIRDER G2D
2	6	3/8	2 5/8				pd 201 G2D
3	12	3/8	2 5/8				pf 201 G2D
4	8	3/8	2 5/8				"
5	8	3/8	2 5/8				pk 201 G2D
6	8	3/8	2 5/8				pt 201 G2D
7	8	3/8	2 5/8				pr 201 G2D
8	7	3/8	2 5/8				pbd 201 G2D
9	9	3/4	3 1/2				pag 201 G2D
10	3	4	4 1/2				"
11	6	3/8	2 5/8				hm 201 G2D
12	6	3/8	2 5/8				hm 201 G2D
13	14	4 1/2	5 1/2				pa G2D
14	8	4 1/2	5 1/2				hfr G2D
15	2	4 1/2	5 1/2				"
16	12	4 1/2	5 1/2				hc G2D
17	2	4 1/2	5 1/2				"
18	4	4 1/2	5 1/2				ph G2D
19	12	3 1/2	4 1/2				"
20	9	4	4 1/2				kg 201 G2D
21							PLATES TO GIRDER G3D
22	2	2 1/2	3 1/2				pa 201 G3D
23	6	2 1/2	3 1/2				pf 201 G3D
24	12	3 1/2	4 1/2				"
25	4	2 1/2	3 1/2				pm 201 G3D
26	4	3 1/2	4 1/2				"
27	8	3 1/2	4 1/2				pp 201 G3D
28	8	3 1/2	4 1/2				py 201 G3D
29	7	3 1/2	4 1/2				pbd 201 G3D
30	12	4	4 1/2				pac 201 G3D
31	6	3 1/2	4 1/2				hm 201 G3D
32	14	4 1/2	5 1/2				pd G3D
33	8	4 1/2	5 1/2				hl G3D
34	2	4 1/2	5 1/2				"
35	16	4 1/2	5 1/2				pg G3D
36	9	4	4 1/2				kg 201 G3D
37	15	2 1/2	3 1/2				pa 101 G3D
38	6	2 1/2	3 1/2				"
39	12	4 1/2	5 1/2				hb G4D to Girder G4D
40	2	4 1/2	5 1/2				"
41	24	4 1/2	5 1/2				Field Rivets Both Flg G1D, G2D
42	12	4 1/2	5 1/2				Field Rivets Both Flg G2D
43	12	4 1/2	5 1/2				Field Rivets Both Flg G3D
44	28	2 1/2	3 1/2				Field Rivets Top Flg G1D, G4D
45	4	3 1/2	4 1/2				"
46	4	3 1/2	4 1/2				"

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	RUT	WASH-ER	TYPE OF BOLT
1	6	3/8	2 5/8				PLATES TO G2E
2	8	3/8	2 5/8				pa 101 G2E
3	7	3/8	2 5/8				pt 101 G2E
4	11	3/8	2 5/8				pd 101 G2E
5	8	3/8	2 5/8				"
6	8	3/8	2 5/8				ph 101 G2E
7	5	3/8	2 5/8				pp 101 G2E
8	3	3/8	2 5/8				py 101 G2E
9	6	3/8	2 5/8				"
10	13	3/8	2 5/8				hb 101 G2E
11	6	3/8	2 5/8				pf G2E
12	2	4 1/2	5 1/2				hp 101 G2E
13	10	3 1/2	4 1/2				"
14	10	3 1/2	4 1/2				hh 101 G2E
15	12	3 1/2	4 1/2				"
16	6	3 1/2	4 1/2				ph G2E
17	6	3 1/2	4 1/2				hm 101 G2E
18	9	3 1/2	4 1/2				kg 101 G2E
19							PLATES TO G3E
20	6	2 1/2	3 1/2				pa 101 G3E
21	8	2 1/2	3 1/2				pt 101 G3E
22	7	3 1/2	4 1/2				pd 101 G3E
23	11	3 1/2	4 1/2				"
24	8	3 1/2	4 1/2				pk 101 G3E
25	8	3 1/2	4 1/2				pm 101 G3E
26	8	3 1/2	4 1/2				pbb 101 G3E
27	6	3 1/2	4 1/2				hb 101 G3E
28	5	3 1/2	4 1/2				pb G3E
29	7	3 1/2	4 1/2				"
30	6	3 1/2	4 1/2				hp 101 G3E
31	2	4 1/2	5 1/2				"
32	10	3 1/2	4 1/2				hh 101 G3E
33	2	4 1/2	5 1/2				"
34	12	3 1/2	4 1/2				pk G3E
35	6	3 1/2	4 1/2				hm 101 G3E
36	9	3 1/2	4 1/2				kg 101 G3E
37	18	2 1/2	3 1/2				pa 101 G3E
38	6	2 1/2	3 1/2				"
39	36	3 1/2	4 1/2				Field Rivets Both Flg G1E, G3E, G4E
40	6	3 1/2	4 1/2				Field Rivets Both Flg G2E
41	32	2 1/2	3 1/2				Field Rivets Top Flg All Girders
42	16	3 1/2	4 1/2				"
43	16	3 1/2	4 1/2				"

ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
			LENGTH UNDER HEAD	HEAD	RUT	WASH-ER	TYPE OF BOLT
1							WASHER
2	8	3/8	2 5/8				
3	64	3/8	2 5/8				ED3 to BRG to C/P
4							" C/P
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ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	12	3/4					PLATES TO GIRDER G2C
2	16	4/2					pk G2C
3	2	4/2					pg G2C
4	12	4/2					pn G2C
5	18	4/2					"
6	6	4/2					pp G2C
7	24	2 1/2					pba G2C
8	2	2 1/2					PLATES TO GIRDER G3C
9	16	3/2					pk G3C
10	2	4/2					ph G3C
11	12	4/2					pn G3C
12	16	4/2					"
13	12	4/2					pw G3C
14	18	4/2					pba G3C
15	9	2/2					pbf G3C
16	12	2/2					pca 101 G3C
17	40	3/2					Field Rivets Flgs G1C, G4C
18	16	4/2					"
19	32	3/2					"
20	40	3/2					Field Rivets Flgs G2C, G4C
21	16	4/2					"
22	32	3/2					"
23	16	4/2					"
24	32	3/2					"
25							
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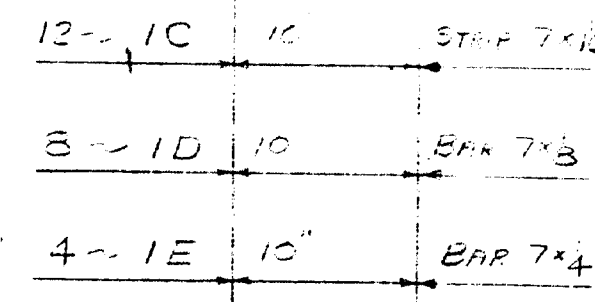
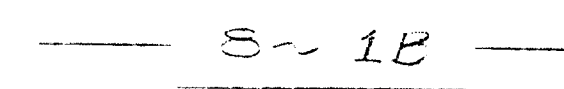
ERECTORS LIST
FIELD RIVETS AND BOLTS
ERICAN BRID.

LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	10	3/4					Swk. conn. L to Gir
2	80	3/4					" " " "
3	40	4/2					" Brkt. to Gir Flg
4	12	2 1/2					" Struts " "
5	36	3/2					" " " "
6	12	4/2					" " " "
7	180	2 1/2					" Brkts - Gir. Stiff
8	144	2 1/2					" " " "
9	192	2 1/2					" " " "
10	190	2 1/2					Cr. Frs to Gir. Flg
11	60	2 1/2					" " " Swk Brkt
12	130	2 1/2					" " " Gir. Stiff (Ext. Girs)
13	180	2 1/2					" " " " (Int Girs)
14	16	2 1/2					Ladder to Gir
15							
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25	20	3/4	2 1/2 Hex Hex Bev Ordinary		1 1/2	5/16 5/8 3/4	Fascia to Swk Brkt.
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ERECTORS LIST
FIELD RIVETS AND BOLTS
AMERICAN BRIDGE

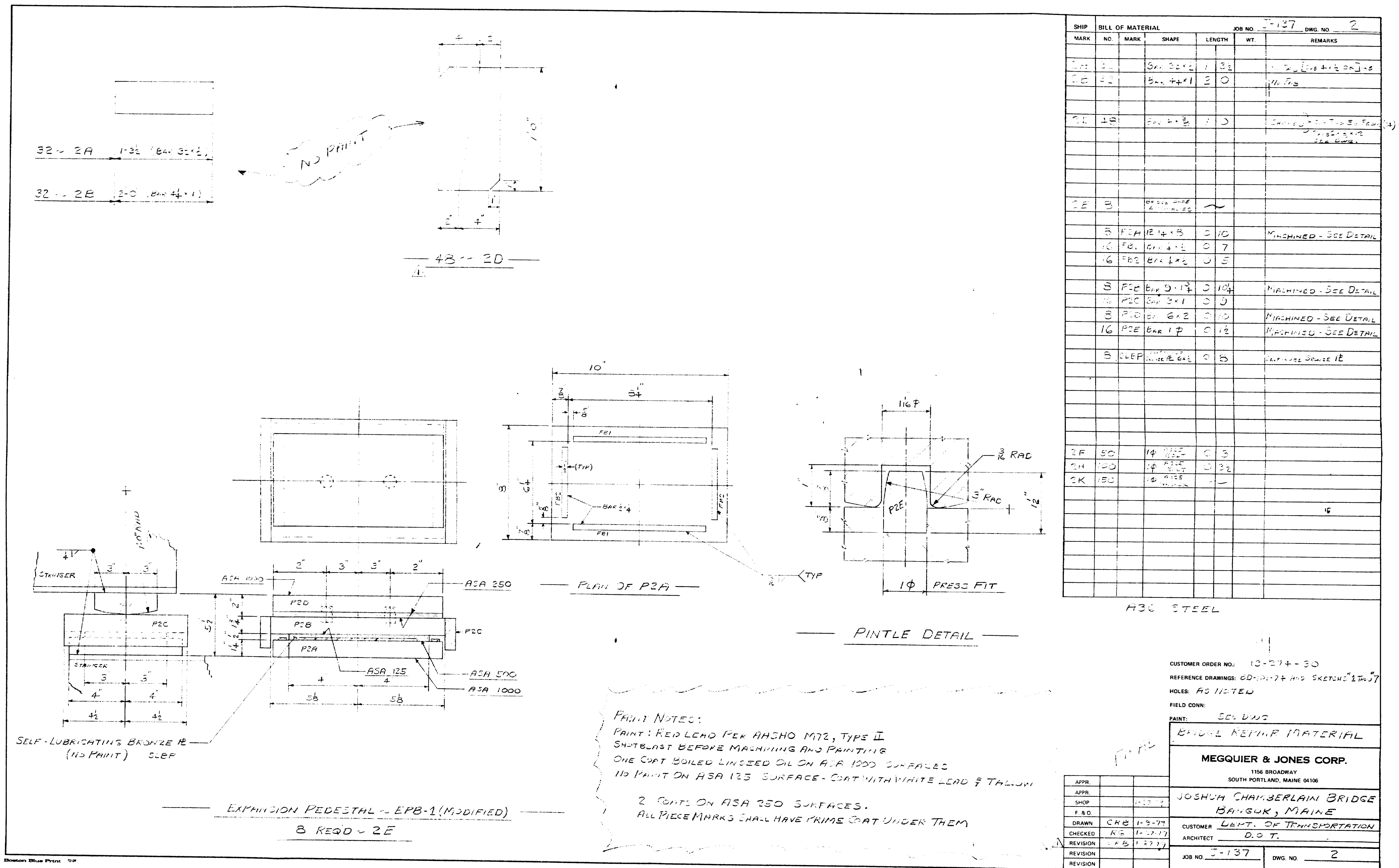
LINE NO.	NO. PCS.	DIAM.	RIVETS	BOLTS	GRIP	THICKNESS OF MATERIAL CONNECTED	LOCATION
1	8	3/4					Field Rivets Top Flg G1D, G4D
2	16	4/2					"
3	28	2 1/2					Field Rivets Top Flg G2D, G3D
4	4	3/2					"
5	4	2 1/2					"
6	8	3/2					"
7	16	4					"
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JOB NO. 5-137 SWG. NO. 1

APPR		
APPR		
SHOP		1-7-7
F. & O.		
DRAWN	CHB	1-7-7
CHECKED	RS	1-7-7
REVISION	RD	1-7-7
REVISION		
REVISION		



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