

FABRICATED STEEL CONSTRUCTION
SUMMARY OF FIELD RIVETS AND BOLTS
BETH DRAFTING ROOM BETH WORKS

Types A, B, C, D, G, H, E, F

Number of Rivets	Actual No.	Comments	Dim. S	RIVETS	Dim. S	BOLTS	Dim. S	Notes	Weight				
1	2	3	4	Type	Size	Type	Size	5	6				
9	8	ED2 To B5, B7, B8, B9 ED4 To B21, B22, B23, B25 ED1 To B1, B5 ED1A To B2, B9, B10 ED2 To B6, B7, B8, B9, B10 ED3 To B15, B20 ED3A To B21, B22, B23, B24, B25 ED4 To B21, B22, B23, B24, B25 ED1 To B1, B2, B3, B4, B5 ED1A To B6, B7, B8, B9, B10 ED2 To B10 ED2A To B11, B12, B15 ED3 To B16, B17, B18, B19, B20 ED3A To B21, B22, B23, B24, B25 ED4 To B24 ED4A To B26, B27, B29, B30 ED1 To B2, B5, B4 ED2A To B11, B12, B13, B14, B15 ED3 To B17, B18, B19 ED4A To B26, B27, B28, B29, B30 ED2A To B14 ED4A To B28	2	Hex 2 1/2 x 4 Std.	9	Hex 3/8 x 5 Std.	24	Hex 3/8 x 5 Std.	33	18	3	87	80
No FURN. ACTUAL NO. 7. A.B.T. 8%													
ASR SF HEX HEAD HIGH STRENGTH STRUCTURAL BOLTS, CARBON STEEL 11.8T TREATED TO ASTM SPEC. A325 WITH ONE ASH SF HEX NUT.													
B.P.R. REG. NO. STATE PROJECT No. SHEET TOTAL 1 MAINE 1-95-G (24) 1 24													
A.S.T.M. A-325 HIGH STRENGTH BOLTS (NUTS ON BOLTS)													
Summary of Sheet Nos. R													
ALL BOLTS OVER 1/2" AND 7/8" IN LENGTH TO BE KEPT AS NORM ON FORM NO. 320A. FOR BOLTS ON RIVETS OF SPECIAL DESIGN, DRAW SKETCH ON THIS SHEET.													
Shop Sept. Layout Temp. Shop Smith Shop Leader Scale Punch Dept. Erection O. Insp. Shop Sept. Filter													
IN CHARGE OF: Hoover SEC. Made by: B.T. Date: Shop No. CONTRACT CP44-33													
Customer: CALLAHAN BROS. INC. Structure: INTERSTATE #95 BRIDGE OVER MAIN ST. WATERVILLE, MAINE													

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SUMMARY OF FIELD RIVETS AND BOLTS
BETH DRAFTING ROOM BETH WORKS

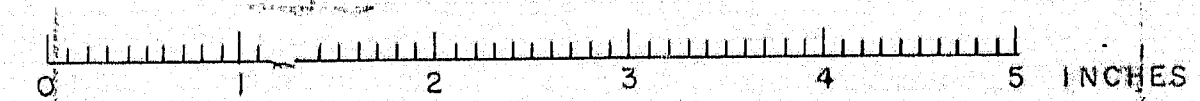
Types A, B, C, D, G, H, E, F

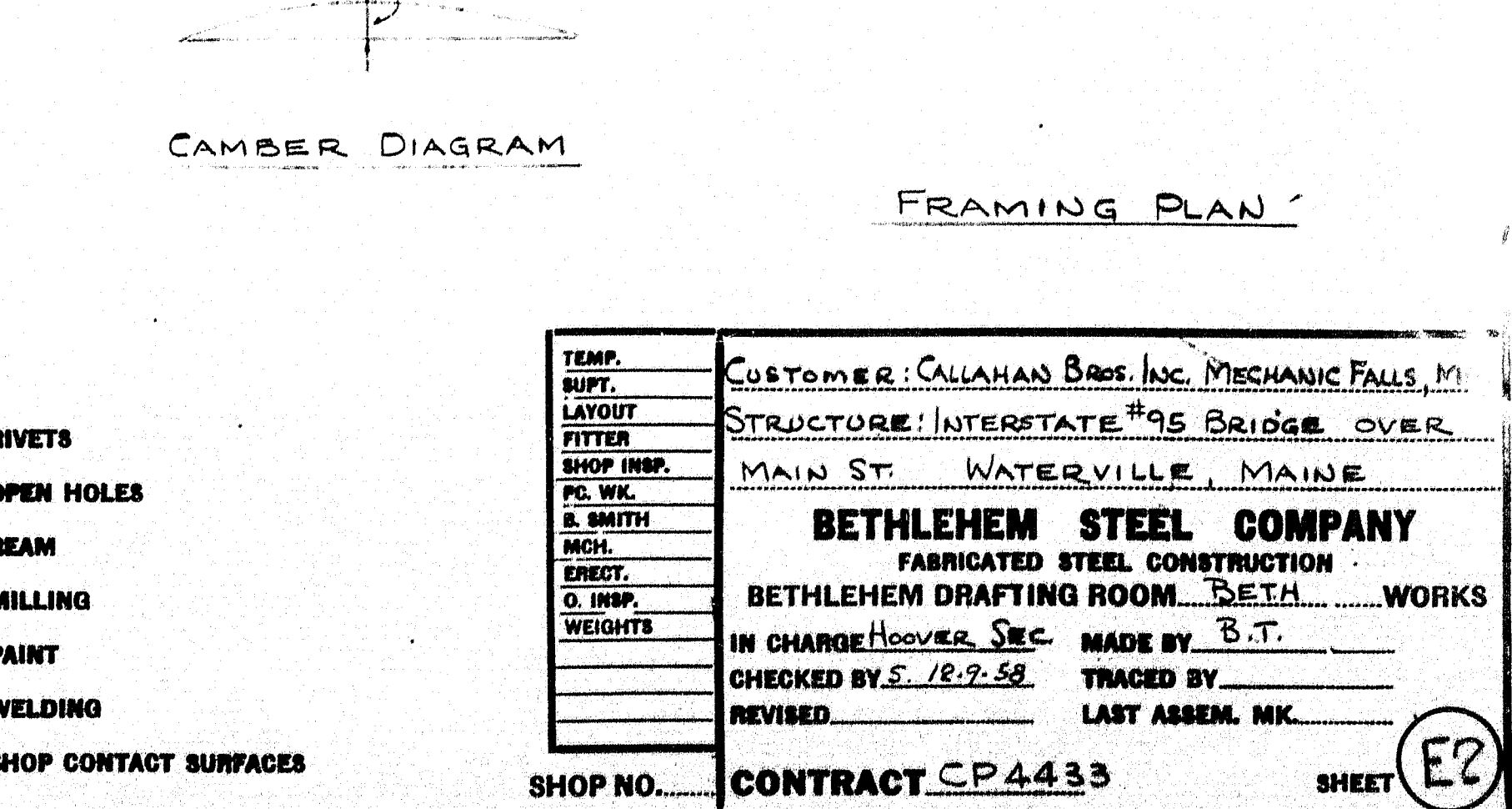
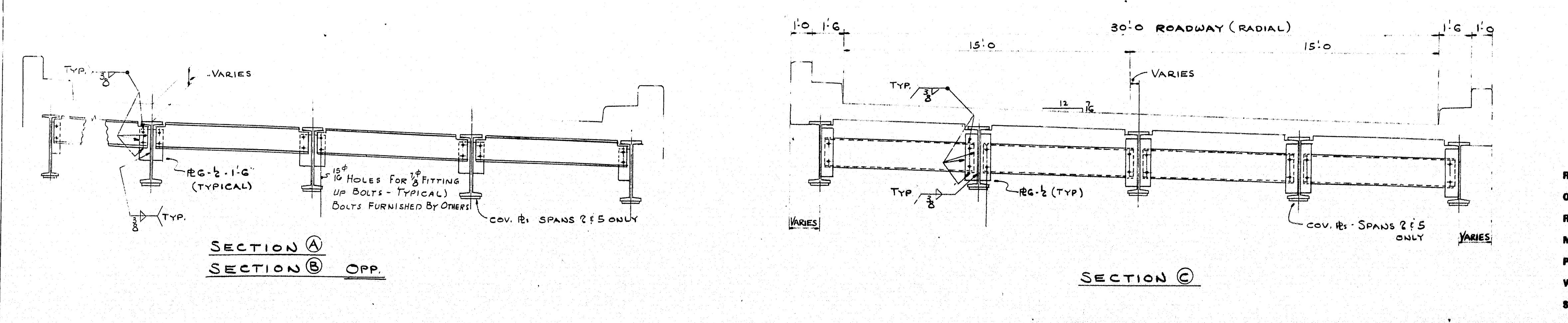
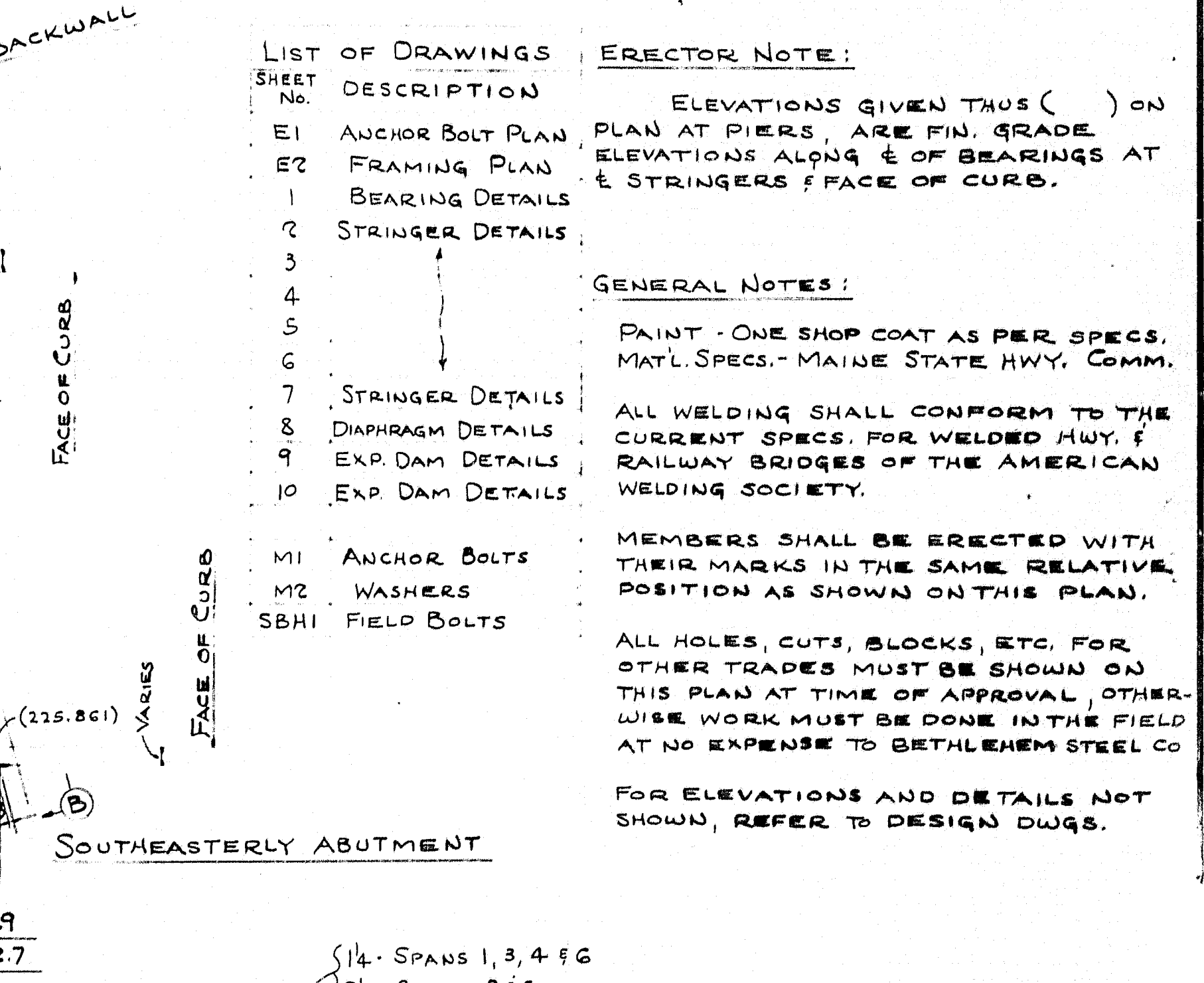
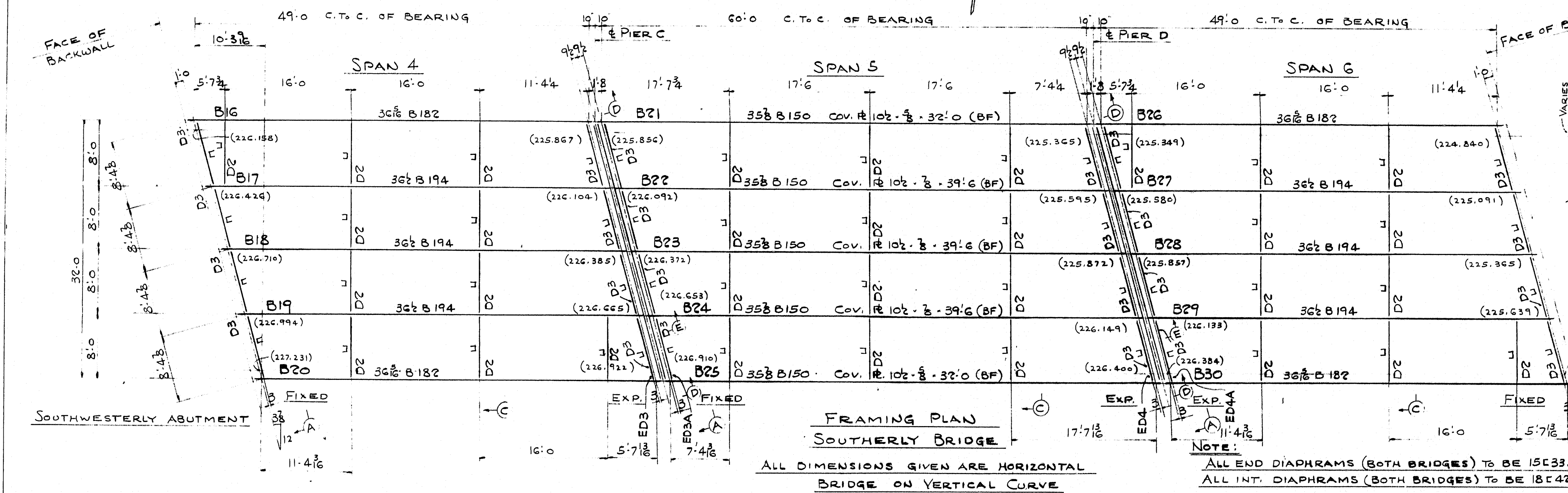
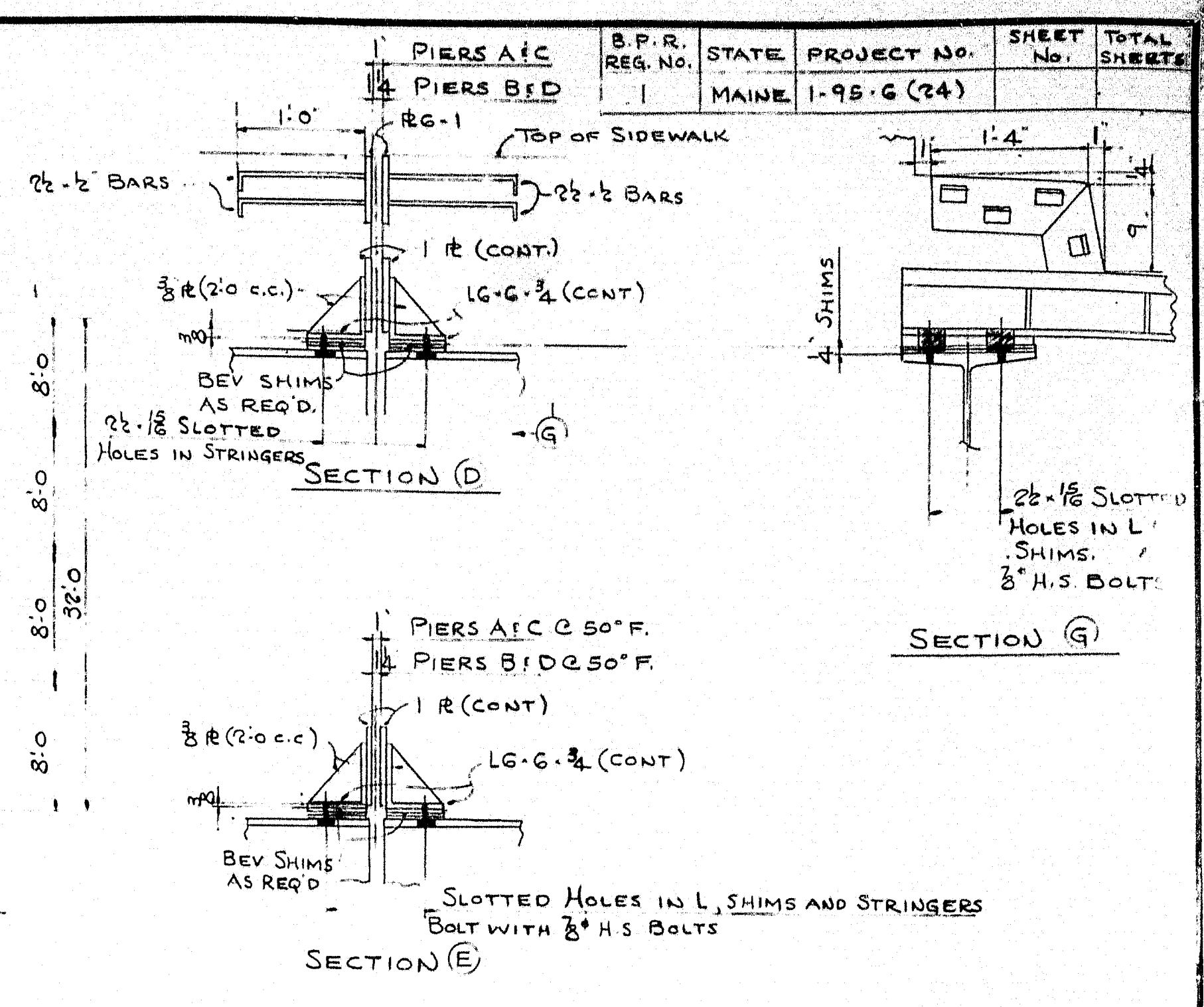
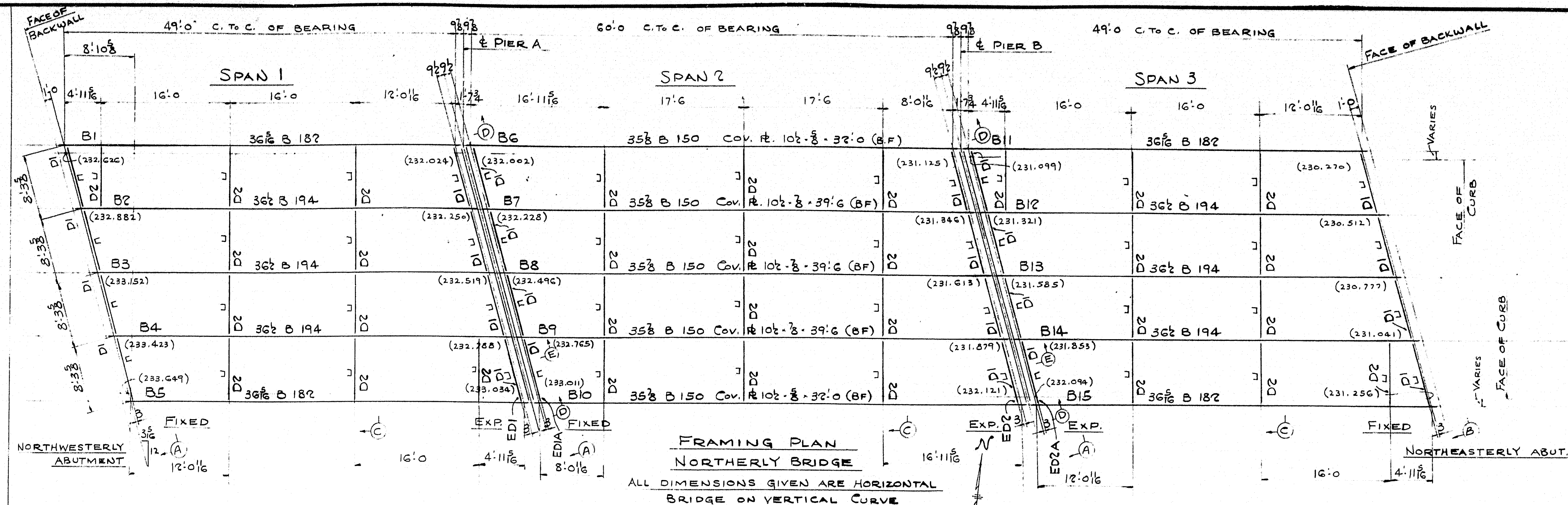
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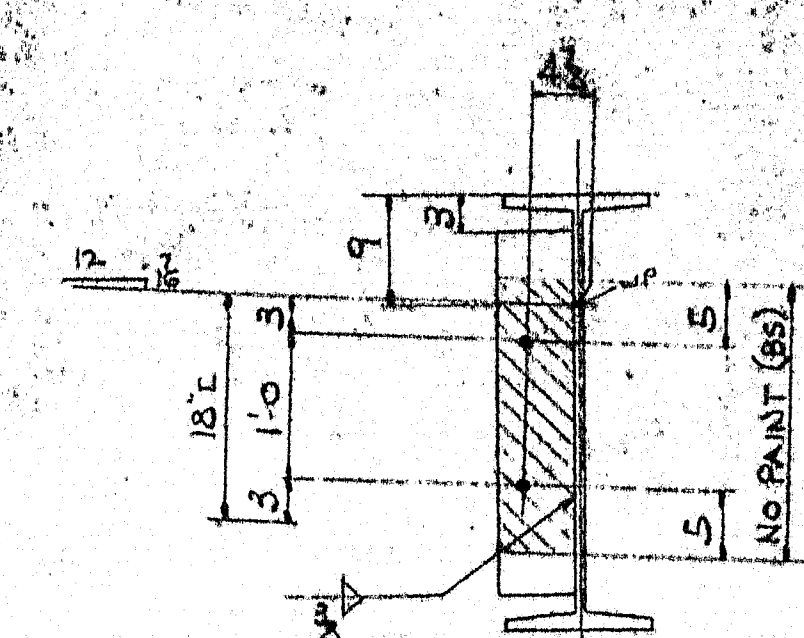
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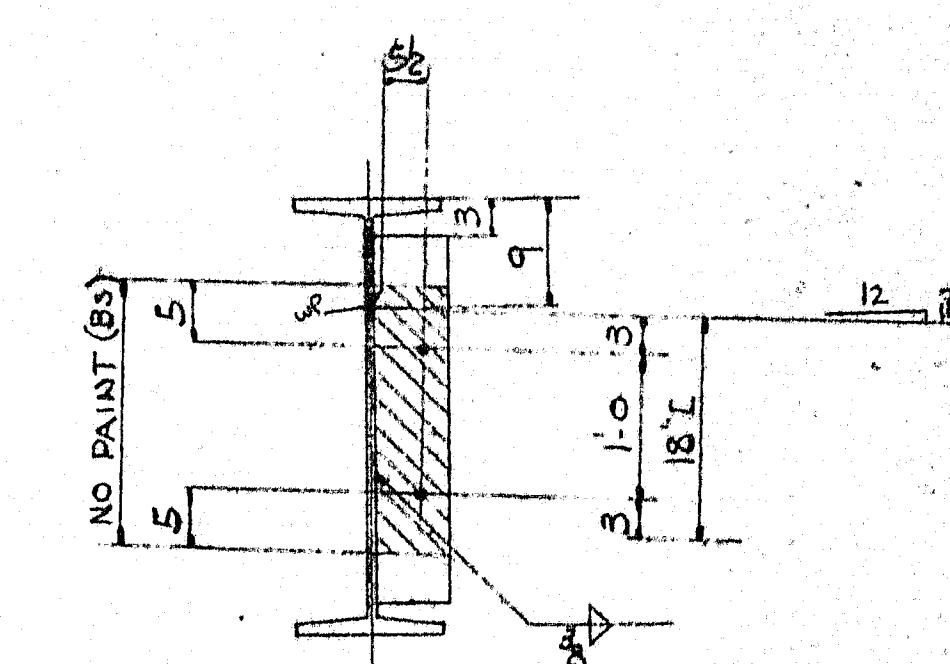




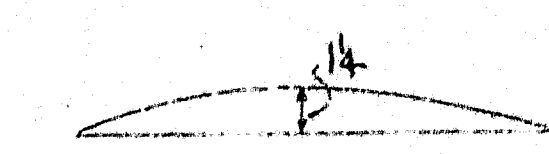
STATE	PROJECT NO.	SHEET NO.
MAINE	1-95-G (24)	



SECTION (B) - B1, & B1G.



SECTION (B) - B5: B20

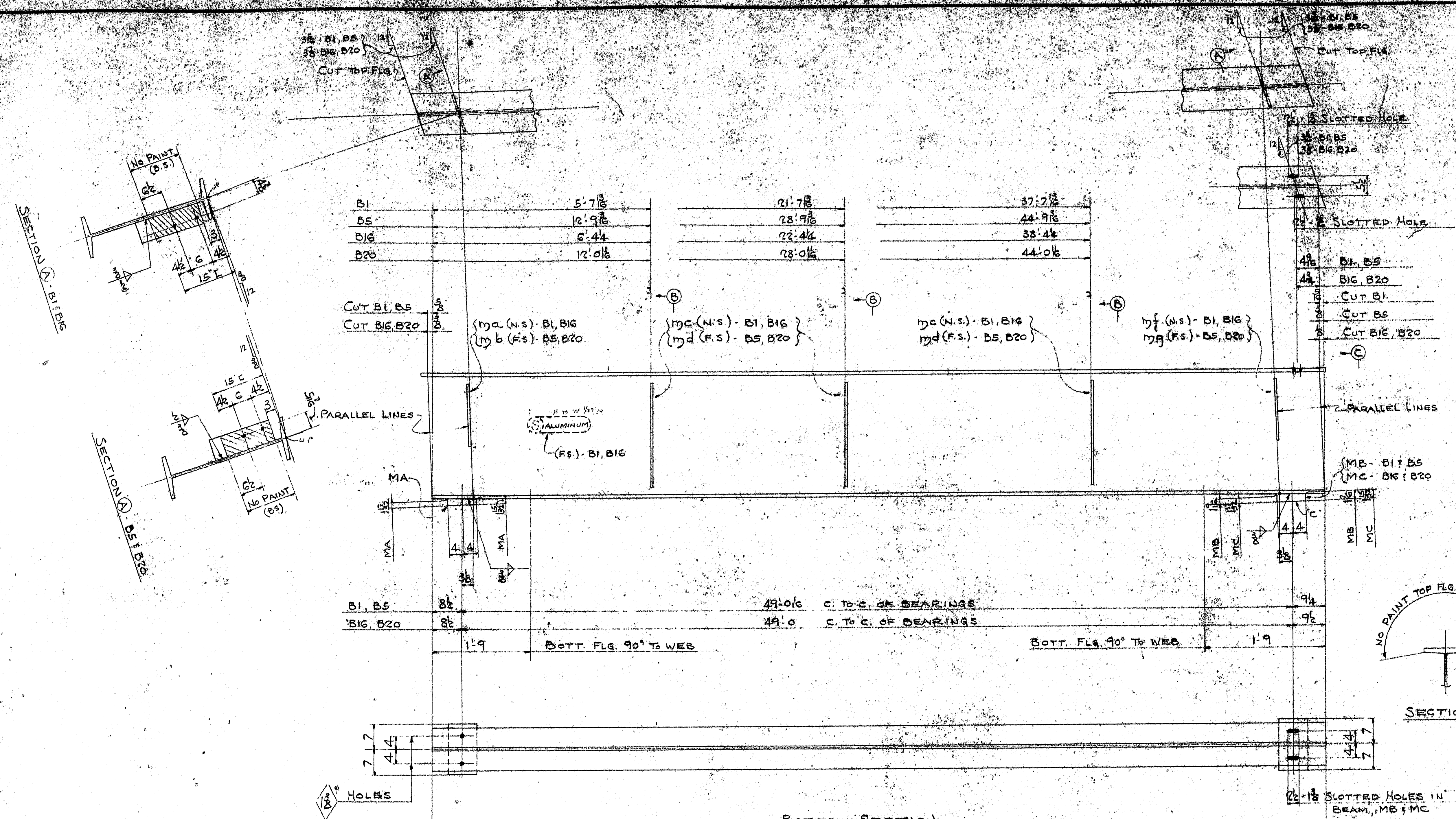


CAMBER DIAGRAM

LONGITUDINAL DIMENSIONS ARE MEASURED
PARALLEL TO CHORD LINE.

SURFACES MARKED 'C' TO BE GIVEN ONE COAT OF A HOT MIXTURE OF WHITE LEAD AND TALLOW.

STRINGER DETAILS

[illegible]

SECTION C

BOTTOM SECTION

MARK	NO. REQ'D.	SPAN
B1	ONE	1
B5	ONE	1
B16	ONE	4
B20	ONE	4

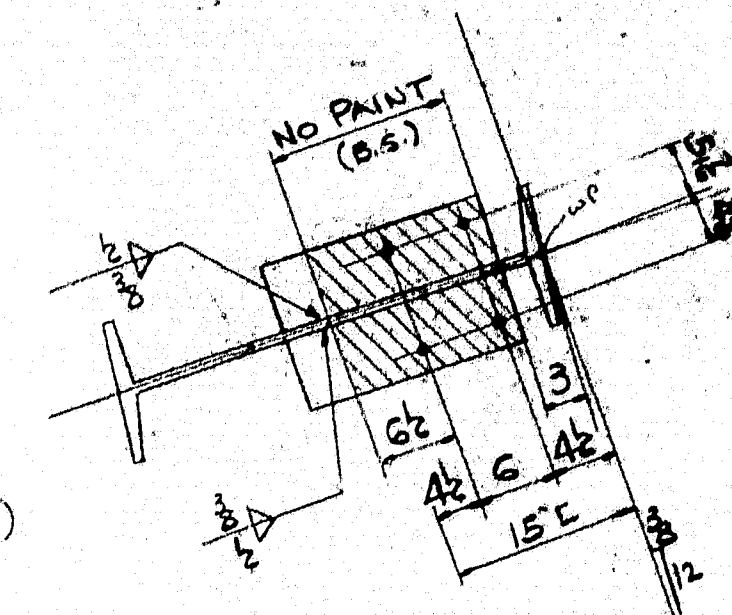
B - 36 $\frac{1}{2}$ - 182 - 50 - 5 $\frac{1}{2}$	(ORD. 51.0 CUT 50.9 $\frac{1}{2}$)	$\frac{3}{4}$
B - 36 $\frac{1}{2}$ - 182 - 50 - 5 $\frac{1}{2}$	(ORD. 51.0 CUT 50.9 $\frac{1}{2}$)	$\frac{3}{4}$
B - 36 $\frac{1}{2}$ - 182 - 50 - 6	(ORD. 51.0 CUT 50.10 $\frac{1}{2}$)	$\frac{3}{4}$
B - 36 $\frac{1}{2}$ - 182 - 50 - 6	(ORD. 51.0 CUT 50.10 $\frac{1}{2}$)	$\frac{3}{4}$

4. Hs. 8 - $(\frac{15}{12} - \frac{12}{12})(M15) \cdot 1-2$ MA - 21
 2. Hs. 8 - $(\frac{16}{12} - \frac{12}{12})(M25) \cdot 1-2$ MB - B1, B5
 2. Hs. 8 - $(\frac{15}{12} - \frac{12}{12})(M25) \cdot 1-2$ MC - B16, B20 } (ORD. DET. ON SHEET #1)
DO NOT DUPLICATE

2 R 63-2-1 G ma-51 B16 } (GRD 18-2-16-5) %
 2 R 63-2-1 G 51b 55 B20 }
 2 R 63-2-2 G mc-51 B16 } (GRD 30-2-16-5) %
 2 R 63-2-2 G 51b 55 B20 }
 2 R 63-3-1 G 11-51 B16 } (GRD 12-3-16-4) %
 2 R 63-3-1 G 11-51 B16 }
 2 F WELD - 12-0 (3-6-11-1)
 2 F WELD - 12-0 (2-7-6-11)

ENITS. 1/2" DIA
 DEER HOLE $\frac{1}{16}$ " UNLESS NOTED
 BEAM
 MILLING
 PAINT ONE SHOP COAT AS PER
 SPEC. UNLESS NOTED.
 WELDING AS PER SPEC.
 SHOP CONTACT SURFACES NO PAINT

SECTION (A)



3/8" B2, B3, B4
3/8" B17, B18, B19
CUT TOP FLG.

B2	3' 5 1/8	19' 5 1/8	35' 5 1/8
B3 - B18	17' 2 1/2	33' 2 1/2	
B4	14' 11 1/8	30' 11 1/8	46' 11 1/8
B17	3' 9 3/8	19' 9 3/8	35' 9 3/8
B19	14' 7 3/8	30' 7 3/8	46' 7 3/8

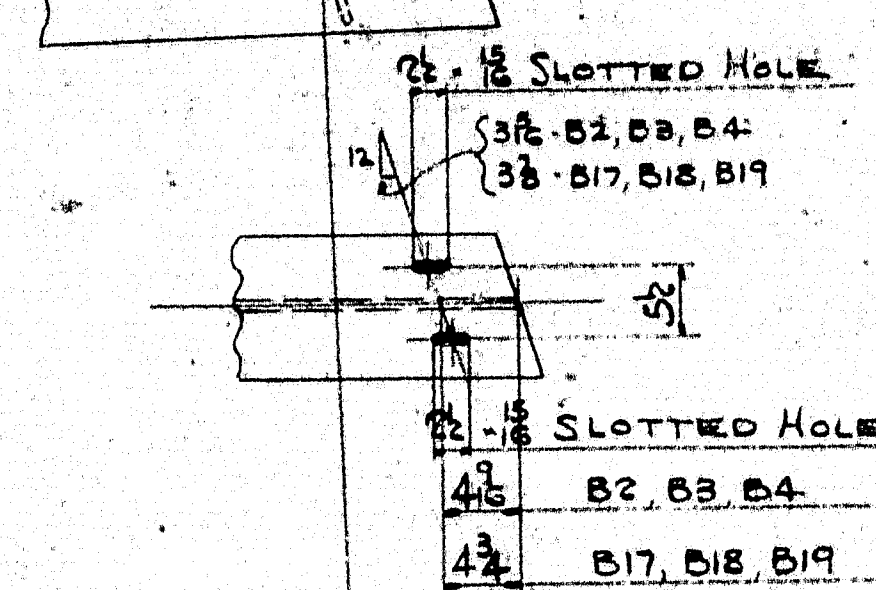
CUT B2, B3, B4
CUT B17, B18, B19

ma (N.S.)
mb (F.S.)

mc (N.S.)
md (F.S.)
me (F.S.) - B2, B17

mf (N.S.)
mg (F.S.)

mh (N.S.)
mi (F.S.)
mj (N.S.)
mk (F.S.) - B4, B19

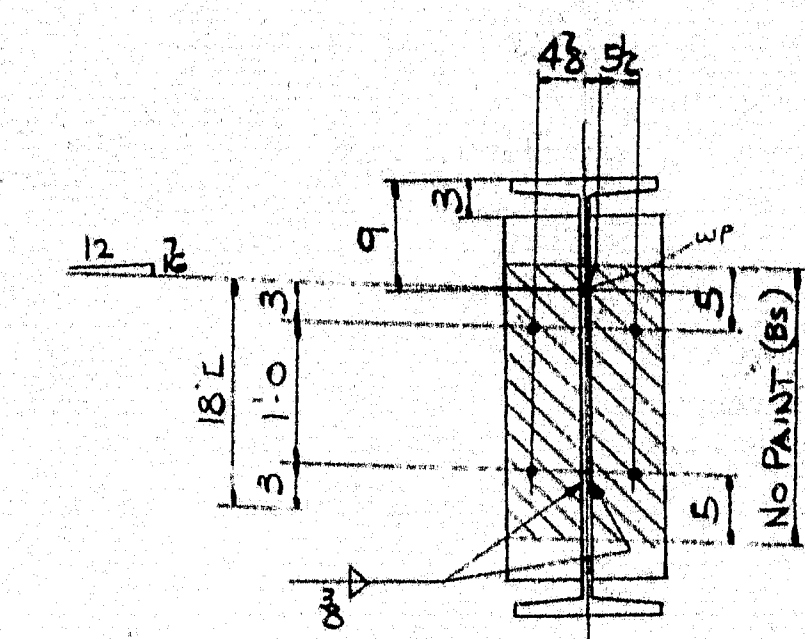


3/8" B2, B3, B4
3/8" B17, B18, B19
CUT TOP FLG.

3/8" SLOTTED HOLE
3/8" B2, B3, B4
3/8" B17, B18, B19

3/8" SLOTTED HOLE
3/8" B2, B3, B4
3/8" B17, B18, B19

3/8" CUT B2, B3, B4
3/8" CUT B17, B18, B19



SECTION (B)

PARALLEL LINES

MA

B2, B3, B4
B17, B18, B19

8 1/2

8 1/2

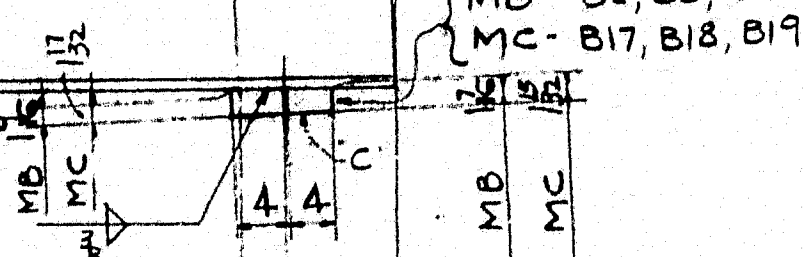
1 1/2

BOTT. FLG. 90° TO WEB

49' 0 1/8 C. TO C. OF BEARINGS

49' 0 C. TO C. OF BEARINGS

BOTT. FLG. 90° TO WEB



MB - B2, B3, B4
MC - B17, B18, B19

MB
MC

MB
MC

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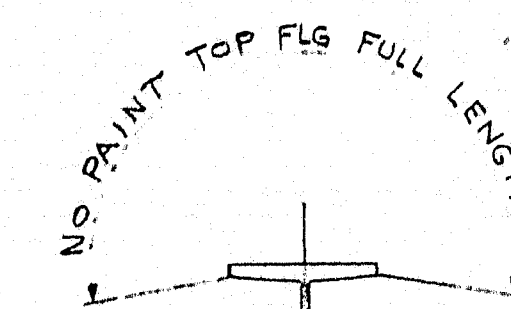
MB
MC

MB
MC

MB
MC

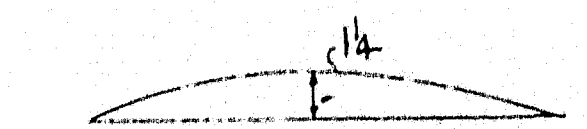
MB
MC

MB
MC



NO PAINT TOP FLG FULL LENGTH

SECTION (C)



CAMBER DIAGRAM

LONGITUDINAL DIMENSIONS ARE MEASURED PARALLEL TO CHORD LINE

SURFACES MARKED "C" TO BE GIVEN ONE COAT OF A HOT MIXTURE OF WHITE LEAD AND TALLOW.

MARK	NO. REQ'D.	SPAN
B2	ONE	1
B3	ONE	1
B4	ONE	1
B17	ONE	4
B18	ONE	4
B19	ONE	4

6-PL. 8 x (1 1/2" x 1 1/2") (M15) - 1-2 MA
8-PL. 8 x (1 1/2" x 1 1/2") (M25) - 1-2 MB + B2, B3, B4
3-PL. 8 x (1 1/2" x 1 1/2") (M25) - 1-2 MC - B17, B18, B19
(ORD. F. DETAILED ON SHEET #1)
DO NOT DUPLICATE

BOTTOM SECTION

B - 36" x 194 - 50 - 5 1/8	(ORD. 51' 0 CUT 50' 9 1/8)	3/4
B - 36" x 194 - 50 - 5 1/8	(ORD. 51' 0 CUT 50' 9 1/8)	3/4
B - 36" x 194 - 50 - 5 1/8	(ORD. 51' 0 CUT 50' 9 1/8)	3/4
B - 36" x 194 - 50 - 6	(ORD. 51' 0 CUT 50' 10 1/8)	3/4
B - 36" x 194 - 50 - 6	(ORD. 51' 0 CUT 50' 10 1/8)	3/4
B - 36" x 194 - 50 - 6	(ORD. 51' 0 CUT 50' 10 1/8)	3/4

6-PL. 6 1/2" x 1-6 ma (ORD. 18' 2 - 16' 6) 5/8
6-PL. 6 1/2" x 1-6 mb (ORD. 18' 2 - 16' 6) 5/8
14-PL. 6 1/2" x 2-6 mc (ORD. 30' 2 - 16' 6) 5/4
14-PL. 6 1/2" x 2-6 md (ORD. 30' 2 - 16' 6) 5/4

6-PL. 6 1/2" x 1-6 mf (ORD. 18' 2 - 16' 6) 5/8
6-PL. 6 1/2" x 1-6 mg (ORD. 18' 2 - 16' 6) 5/8

2 F. WELD - 36' 0 (6' 0 EA. PL.)

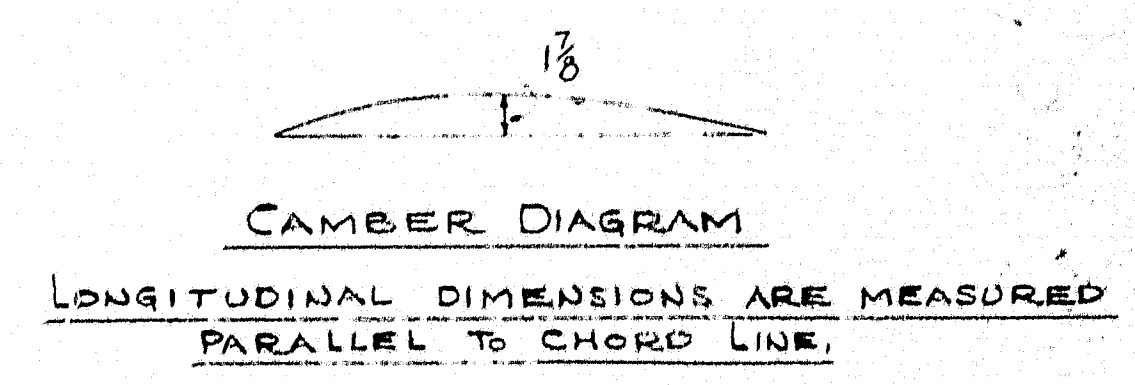
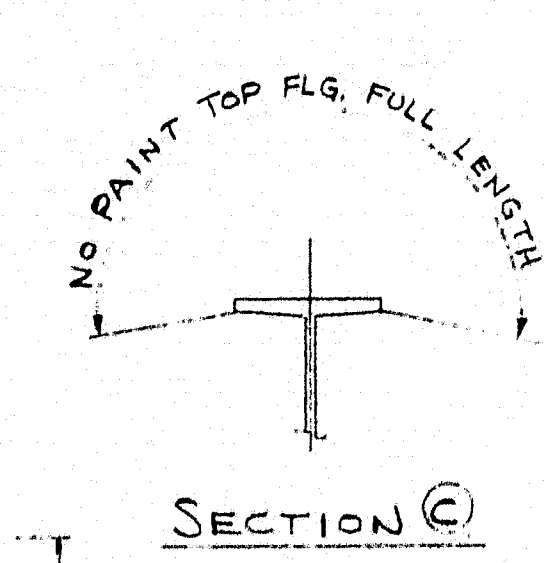
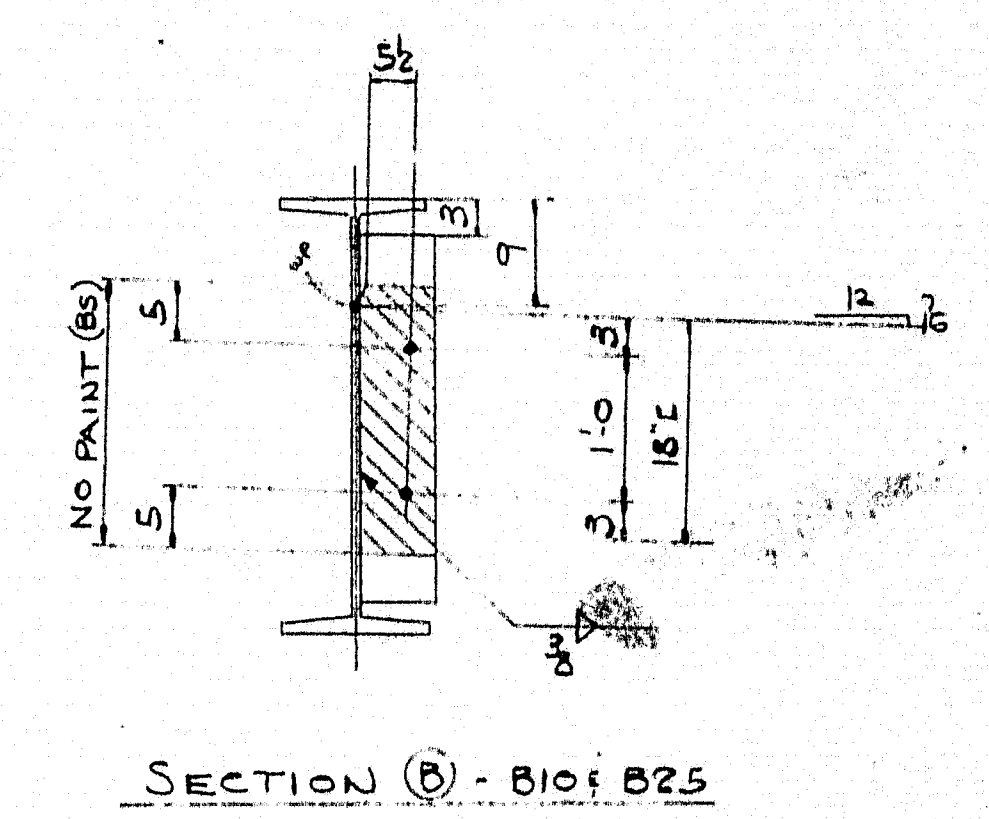
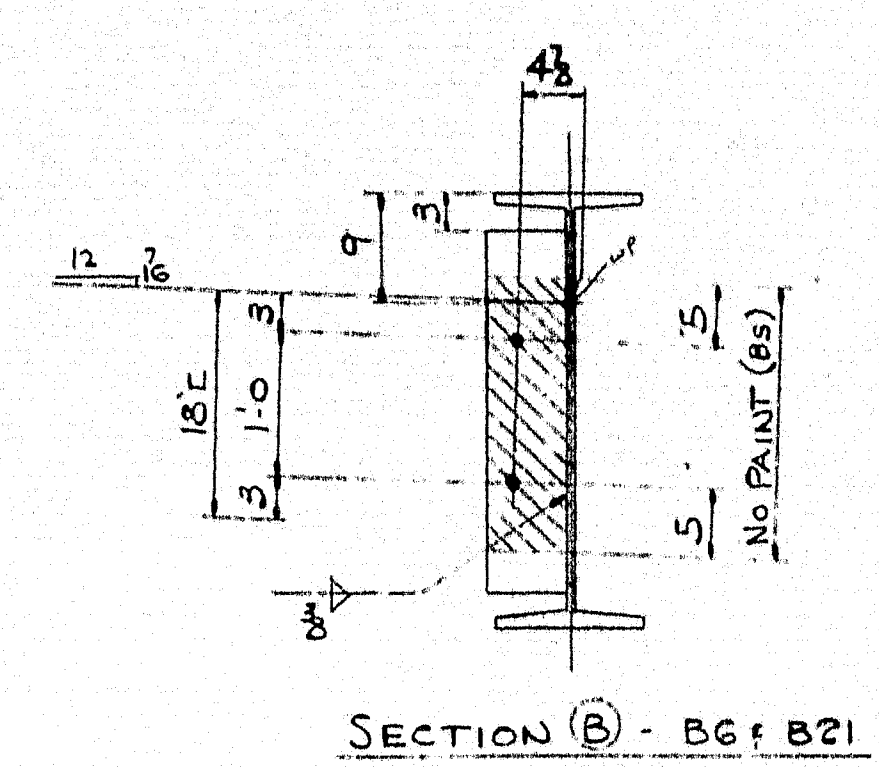
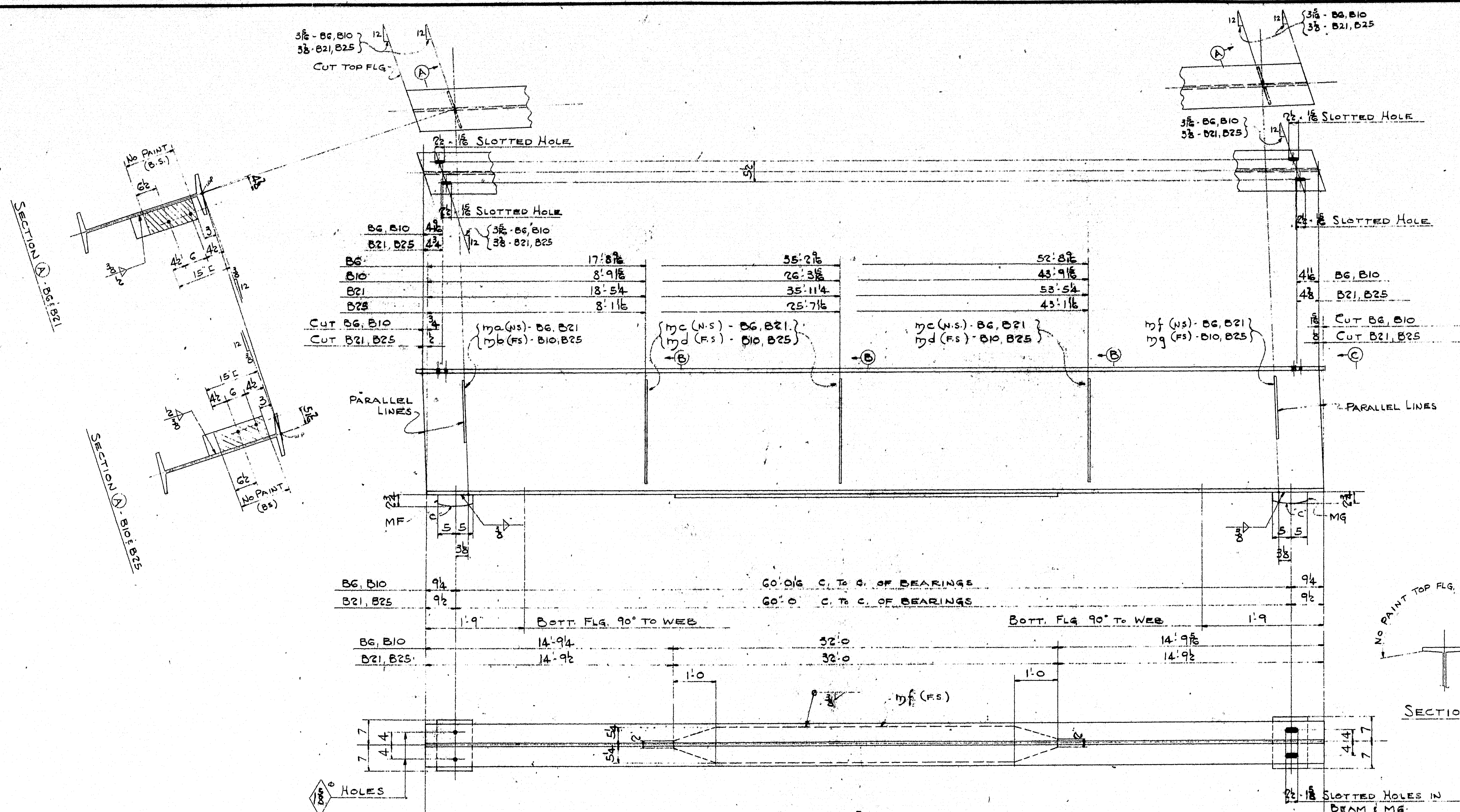
2 F. WELD - 192' 0 (25' 8 - 83, B18)

2 F. WELD - 192' 0 (33' 8 - OTHERS)

RIVETS
OPEN HOLES 1/8" UNLESS NOTED
MEAN
MILLING
PAINT ONE SHOP COAT AS PER SPECS UNLESS NOTED
WELDING AS PER SPECS.
SHOP CONTACT SURFACES NO PAINT

STRINGER DETAILS

TEMP.	CUSTOMER: CALLAHAN BROS. INC., MECHANIC FALLS, MAINE
SUPPLY	STRUCTURE: INTERSTATE #95 BRIDGE OVER
LAYOUT	MAIN ST. WATERVILLE, MAINE
FITTER	
SHOP DESK	
P.C. WEL.	
E. SMITH	
MECH.	
ERECT.	
O. HOP.	
WEIGHTS	
BETHLEHEM STEEL COMPANY FABRICATED STEEL CONSTRUCTION BETHLEHEM DRAFTING ROOM, BETH WORKS IN CHARGE: HOOVER, SEC. MADE BY: B.T. CHECKED BY: S. 12.22.38 TRACED BY: REVISED: LAST ASSEMB. MK.	
SHOP NO.	CONTRACT CP4433
SHEET 3	



MARK.	NO. REQ'D.	SPAN
BG	ONE	2
B10	ONE	2
B21	ONE	5
B25	ONE	5

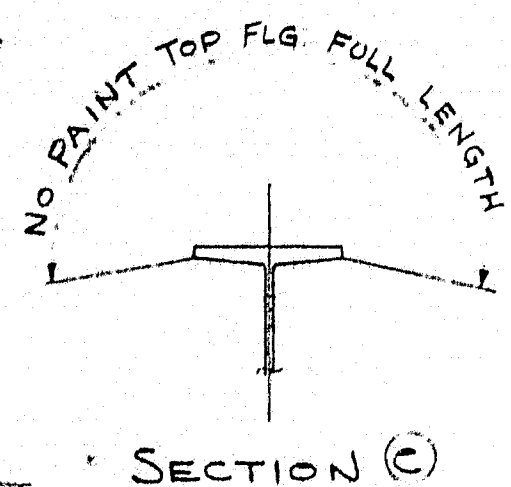
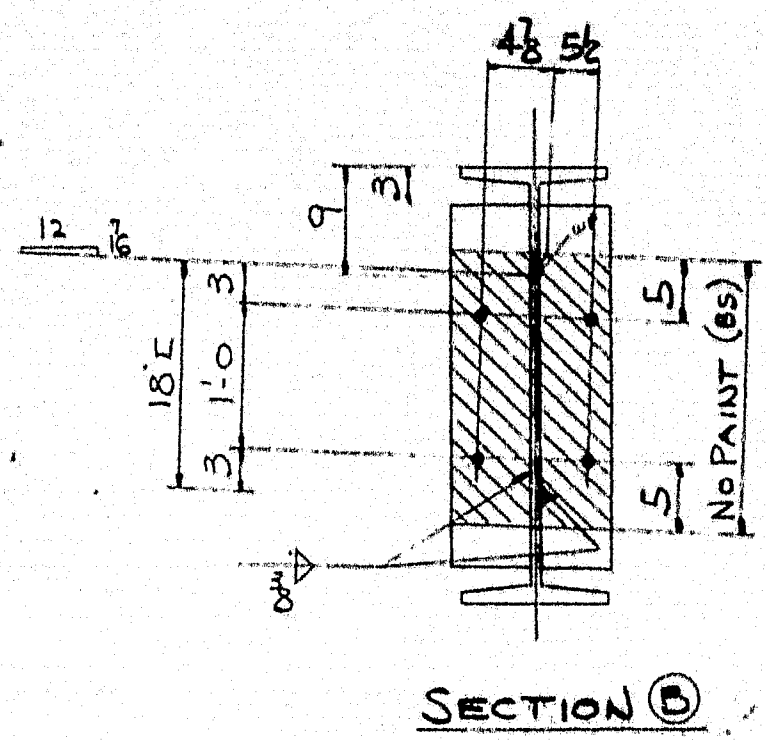
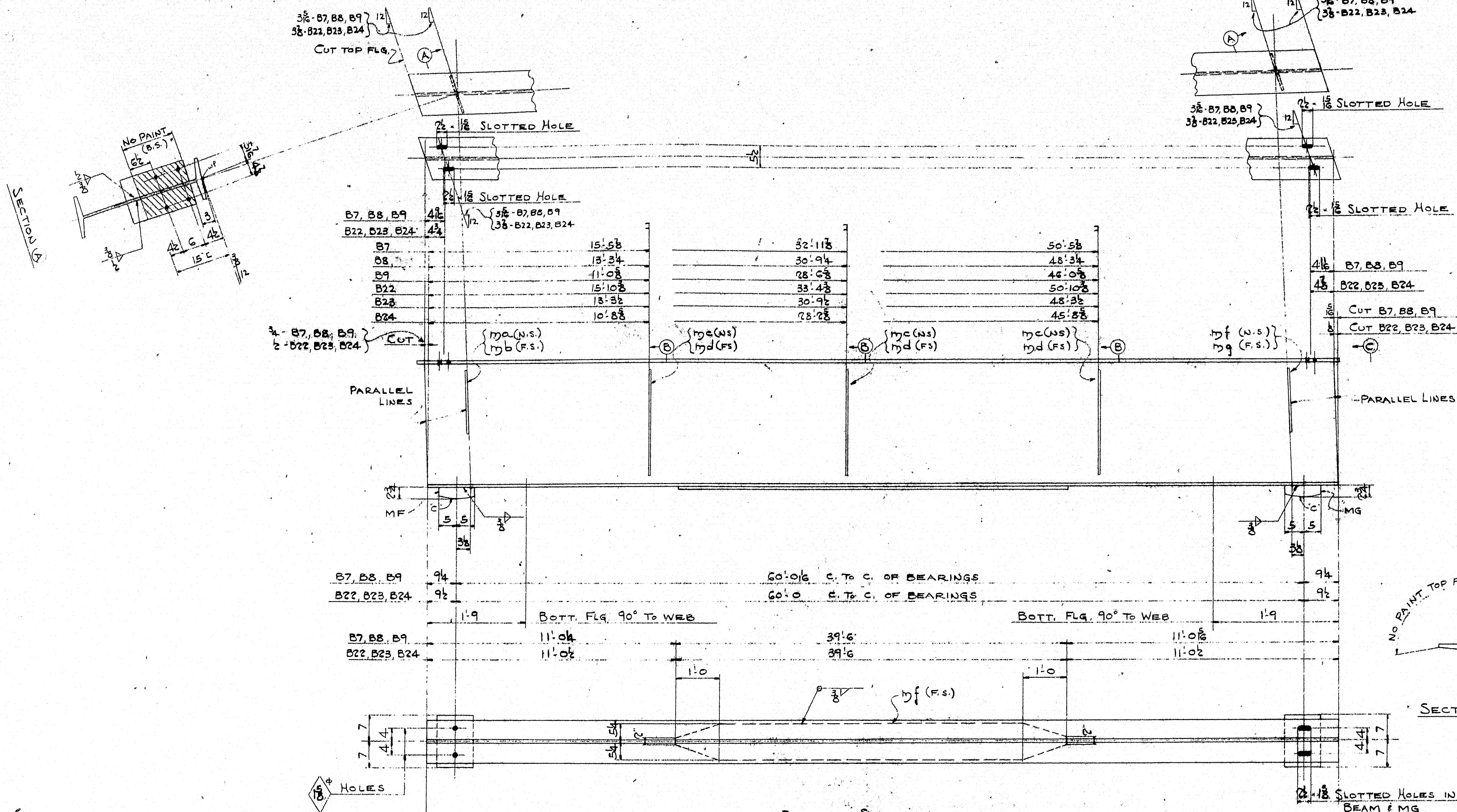
4. R. 10-2 1/4 (PIS) 1/2 MF (ORD. DET. ON SHEET #1)
 4. R. 10-2 1/4 (PIS) 1/2 MG DO NOT DUPLICATE
 4. COV. R. 10-2 (U.M.) 1/2 3/4 MF (ORD.) 3/5
 (A.S.T.M. A373)

2. R. 10-2 1/4 1/2 MF (ORD. 18-2 1/2 1/2 5/8)
 2. R. 10-2 1/4 1/2 MF (ORD. 18-2 1/2 1/2 5/8)
 4. R. 10-2 1/4 1/2 MF (ORD. 18-2 1/2 1/2 5/8)
 4. R. 10-2 1/4 1/2 MF (ORD. 18-2 1/2 1/2 5/8)
 2. F. WELD = 12'-0 (3'-0 EA. PC.)
 3. F. WELD = 34'-0 (3'-0 EA. PC.)

OPEN HOLES 1 1/2" UNLESS NOTED
 PAINT ONE SHOP COAT AS PER SPECS. UNLESS NOTED
 WELDING AS PER SPECS.
 SHOP CONTACT SURFACES NO PAINT

STRINGER DETAILS

TEMP.	CUSTOMER: CALLAHAN BROS. INC., MECHANIC FALLS, MAINE
SUPPLY	STRUCTURE: INTERSTATE # 95 BRIDGE OVER
LAYOUT	MAIN ST., WATERVILLE, MAINE
FITTING	BETHLEHEM STEEL COMPANY
SHOP SHOP	FABRICATED STEEL CONSTRUCTION
PA. WEL.	BETHLEHEM DRAFTING ROOM, DETH. WORKS
A. SMITH	IN CHARGE: HOOVER, SEC. MADE BY: B.T.
MON.	CHECKED BY: S. R. 22-50, TRACED BY: LAST ASSEMB. MK.
SPRINT.	
O. WEL.	
WEIGHTS	
REVISIONS	
SHOP NO.	CONTRACT CP4433



CAMBER DIAGRAM
 LONGITUDINAL DIMENSIONS ARE MEASURED
 PARALLEL TO CHORD LINE.

SURFACES MARKED 'C' TO BE GIVEN ONE
 COAT OF A HOT MIXTURE OF WHITE LEAD
 AND TALLOW.

MARK	NO.	SPAN
B7	ONE	?
B8	ONE	?
B9	ONE	?
B22	ONE	5
B23	ONE	5
B24	ONE	5

BOTTOM SECTION

B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.0 CUT G1 10 1/2) A.S.T.M. A373	1/4
B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.0 CUT G1 10 1/2) A.S.T.M. A373	1/4
B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.0 CUT G1 10 1/2) A.S.T.M. A373	1/4
B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.1 CUT G1 11 1/4) A.S.T.M. A373	1/3
B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.1 CUT G1 11 1/4) A.S.T.M. A373	1/3
B-35 3/8 x 150 x G1 G 1/2	(ORD. 62.1 CUT G1 11 1/4) A.S.T.M. A373	1/3

G-18-10 x 2 3/4 (P13) 1/2 MF (ORD. F DET. ON SHEET #1)
 G-18-10 x 2 3/4 (P13) 1/2 MG DO NOT DUPLICATE
 G-Cov. 18-102 (U.M.) 3/8 x 39 1/2 MF (ORD. 3/4)
 (ASTM A373)

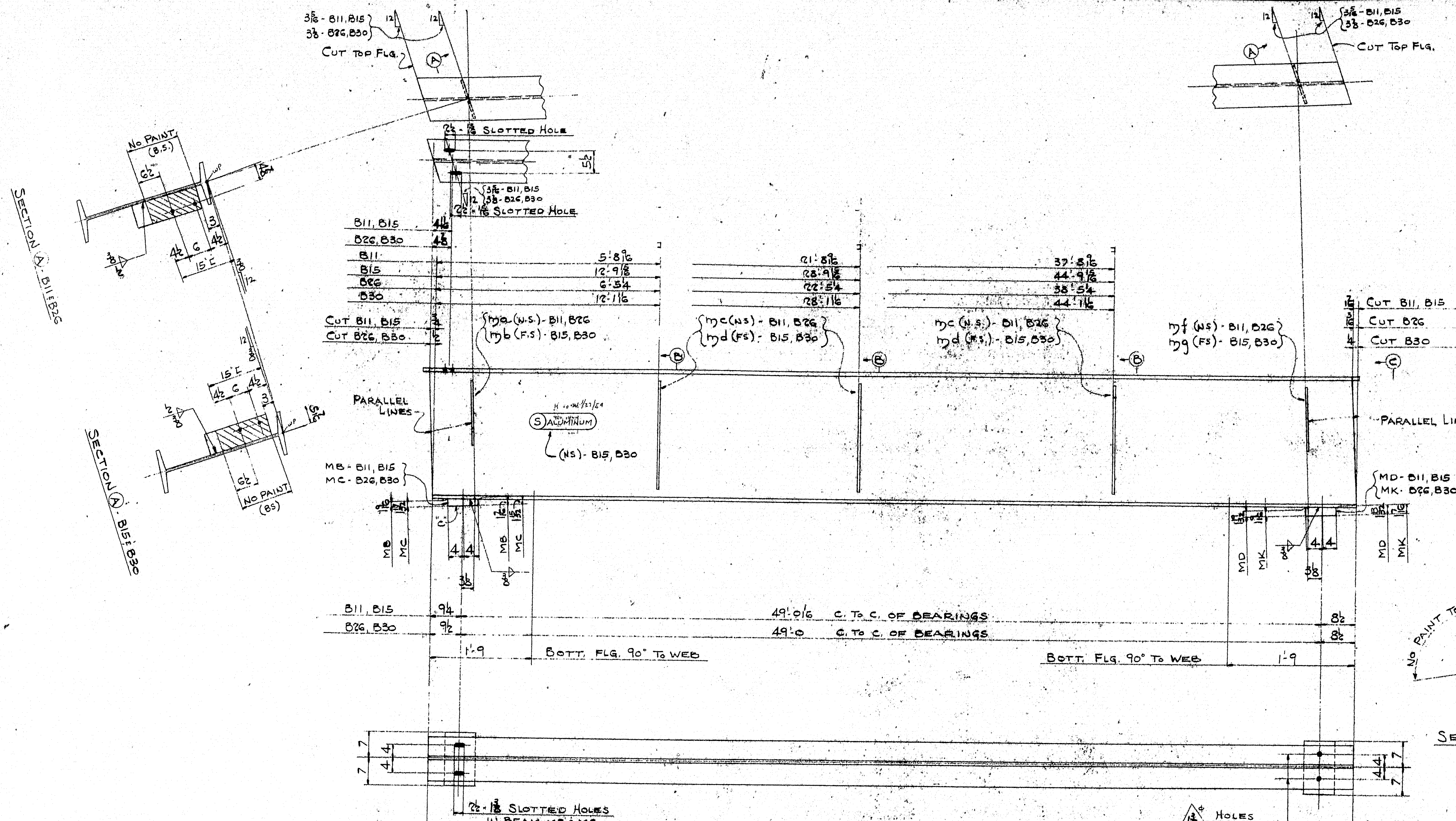
G-18-10 x 2 3/4 MF (ORD. 18-2-16 G) 5/8
 G-18-10 x 2 3/4 MG (ORD. 18-2-16 G) 5/8
 18-10 x 2 3/4 MF (ORD. 30-2-16 G) 5/8
 18-10 x 2 3/4 MG (ORD. 30-2-16 G) 5/8
 G-18-10 x 2 3/4 MF (ORD. 18-2-16 G) 5/8
 G-18-10 x 2 3/4 MG (ORD. 18-2-16 G) 5/8
 1/2 F WELD 3/8 x 1/2 (1/4 EA. PE)
 1/2 F WELD 3/4 x 1/2 (1/4 EA. PE)

RYETS
 OPEN HOLES 1/8" UNLESS NOTED
 MEAN
 MILLING
 PAINT ONE SHOP COAT AS PER
 SPECS. UNLESS NOTED
 WELDING AS PER SPECS.
 SHOP CONTACT SURFACES NO PAINT.

STRINGER DETAILS

TEMP.	CUSTOMER: CALLAHAN BRGS. INC. MECHANIC FALLS, MAINE
DATE	STRUCTURE: INTERSTATE #95 BRIDGE OVER
DESIGNER	MAIN ST. WATERVILLE, MAINE
FITTER	BETHEHEM STEEL COMPANY
SHOP MAN	FABRICATED STEEL CONSTRUCTION
PE. WEL.	BETHEHEM DRAFTING ROOM, BETH.
WEL.	IN CHARGE: HOOVER SEC. MADE BY: B.T.
Q. WEL.	CHECKED BY: S. 12-22-56
WEIGHTS	REVISED: LAST AMEN. MK.
SHOP NO.	CONTRACT CP4433 15-178 F

S.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-G(24)		



MARK	NO. REQ'D	SPAN
B11	ONE	3
B15	ONE	3
B26	ONE	6
B30	ONE	6

BOTTOM SECTION

B - 36 1/2" x 182" x 50.5 1/2"	(ORD. 51.0 CUT 50.9 1/2")	3/4"
B - 36 1/2" x 182" x 50.5 1/2"	(ORD. 51.0 CUT 50.9 1/2")	3/4"
B - 36 1/2" x 182" x 50.6"	(ORD. 51.0 CUT 50.10 1/2")	3/4"
B - 36 1/2" x 182" x 50.6"	(ORD. 51.0 CUT 50.10 1/2")	3/4"

- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MB - B11, B15
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MC - B26, B30
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MD - B11, B15
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MK - B26, B30
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MB - B11, B26
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MC - B15, B30
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MD - B11, B26
- 2 - R. 8 - (1 1/2" - 1 1/2") (M15) - 1-2 MK - B15, B30
- 2 - F. WELD - 12" O (3" EA. PC.)
- 3 - F. WELD - 83" O (20" EA. PC.)

OPEN HOLES 1/8" UNLESS NOTED

PAINT ONE SHOP COAT AS PER SPEC. UNLESS NOTED.

WELDING AS PER SPEC.

SHOP CONTACT SURFACES NO PAINT

TEMP. _____

QUIP. _____

LAYOUT _____

FITTER _____

SHOP INSP. _____

P.C. WK. _____

DRAW. _____

ENGR. _____

O. INSP. _____

WEIGHTS _____

CUSTOMER: CALLAHAN BROS. INC. MECHANICAL DEPT.

STRUCTURE: INTERSTATE #95 BRIDGE OVER MAIN ST. WATERVILLE, MAINE

BETHLEHEM STEEL COMPANY

FABRICATED STEEL CONSTRUCTION

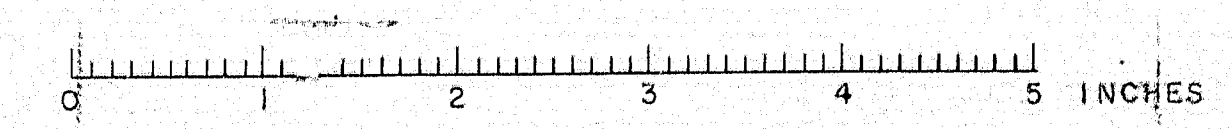
BETHLEHEM DRAFTING ROOM BETH. WORKS

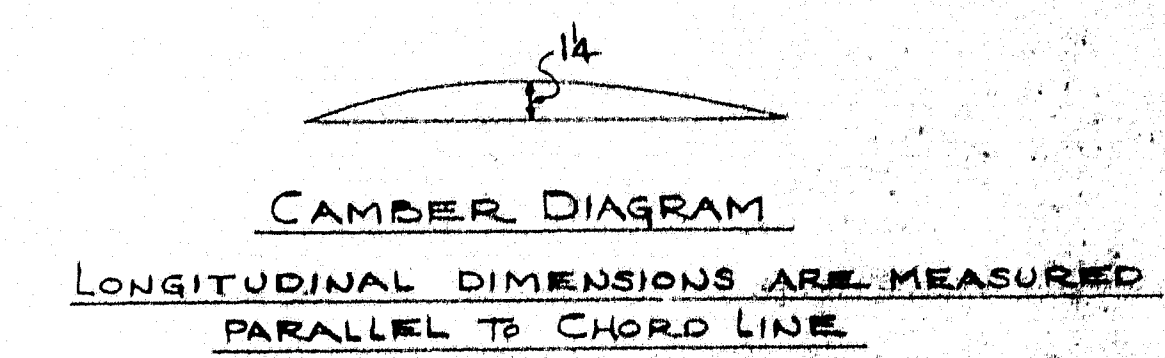
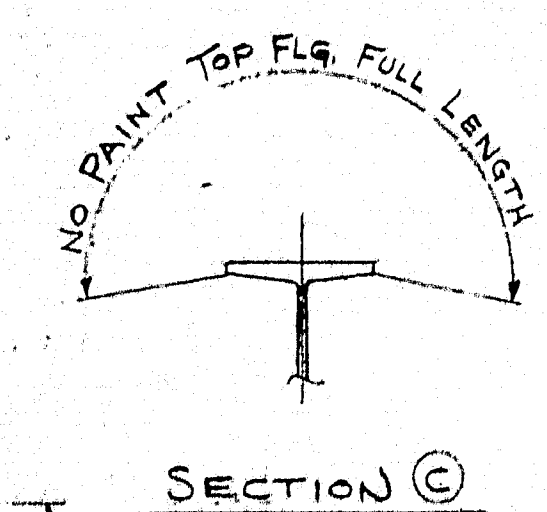
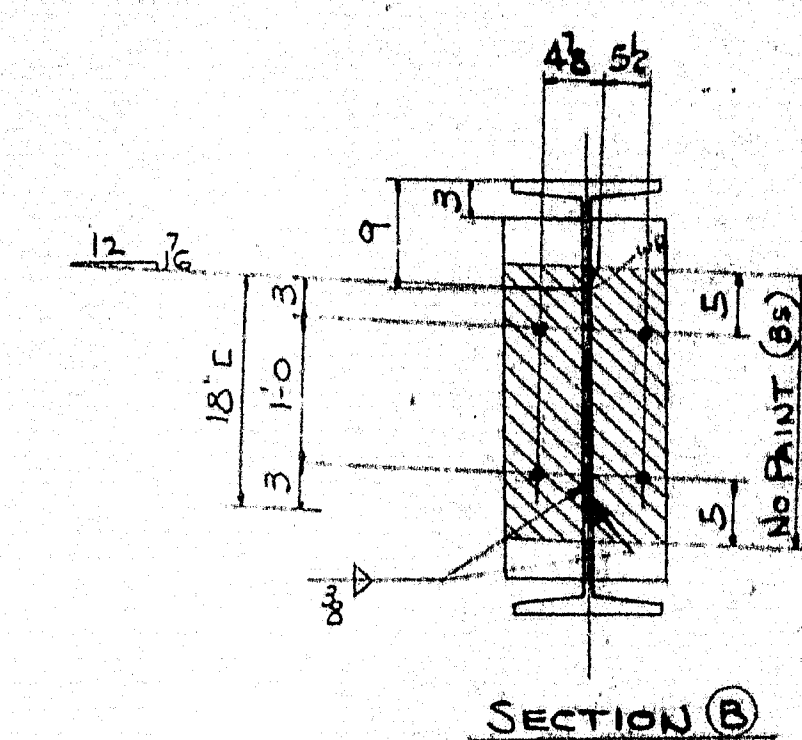
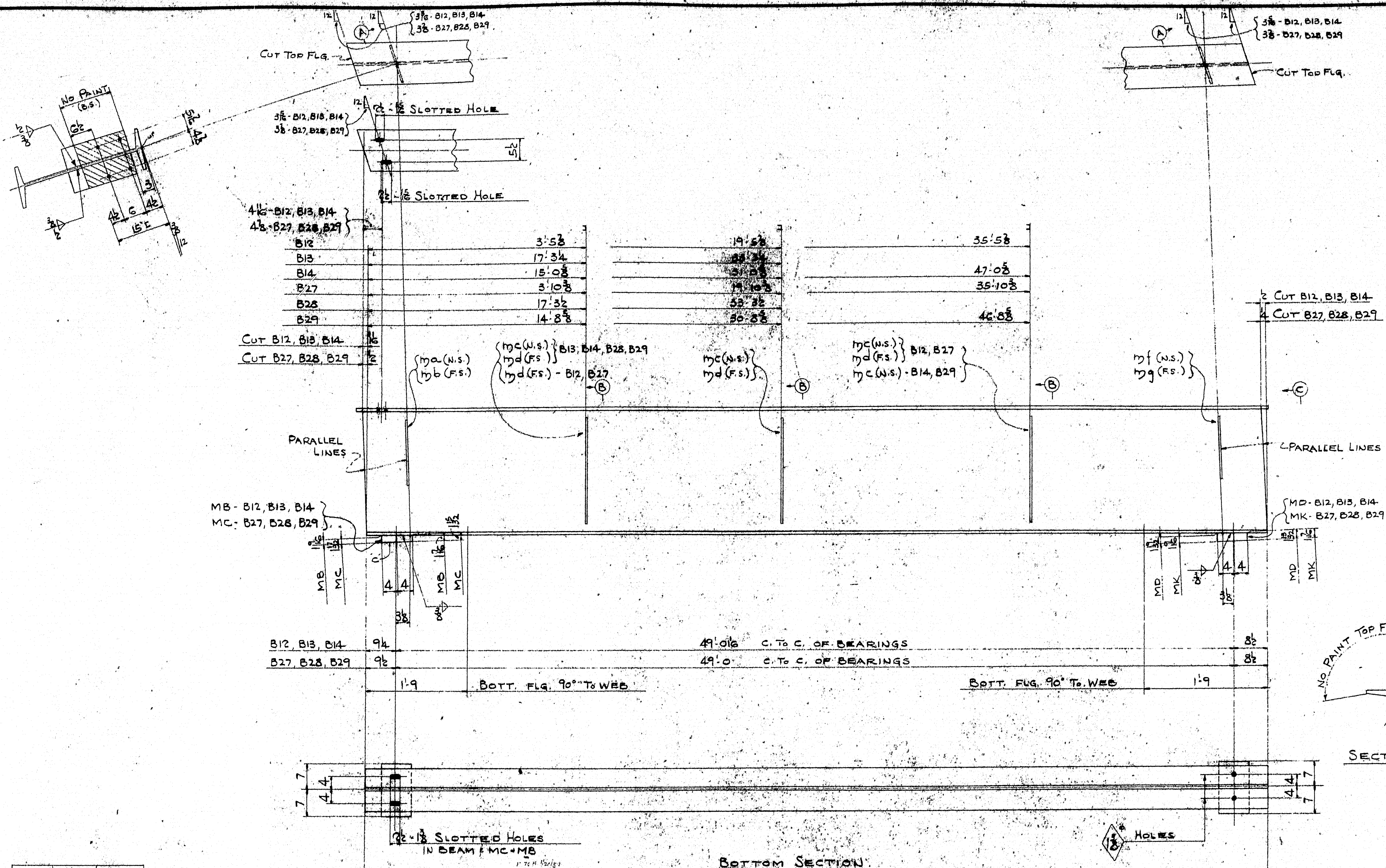
IN CHARGE: HOOVER, S.E. MADE BY: B.T.

CHECKED BY: J. 12-22-58 TRACED BY: _____

REVISED: _____ LAST ASSEMB. MK.

SHOP NO. _____ CONTRACT CP4433





MARK	NO. REQ'D	SPAN
B12	ONE	3
B13	ONE	3
B14	ONE	3
B27	ONE	6
B28	ONE	6
B29	ONE	6

3. $R_1: 8 \cdot \left(\frac{1}{16} - \frac{1}{32} \right) (M2S) \cdot 1.2 \text{ MB} - 812, 818, 814$
 3. $R_1: 8 \cdot \left(\frac{1}{16} - \frac{1}{32} \right) (M2S) \cdot 1.2 \text{ MC} - 827, 828, 829$
 3. $R_1: 8 \cdot \left(\frac{1}{16} - \frac{1}{32} \right) (M1S) \cdot 1.2 \text{ MP} - 812, 818, 814$
 3. $R_1: 8 \cdot \left(\frac{1}{16} - \frac{1}{32} \right) (M1S) \cdot 1.2 \text{ MK} - 827, 828, 829$

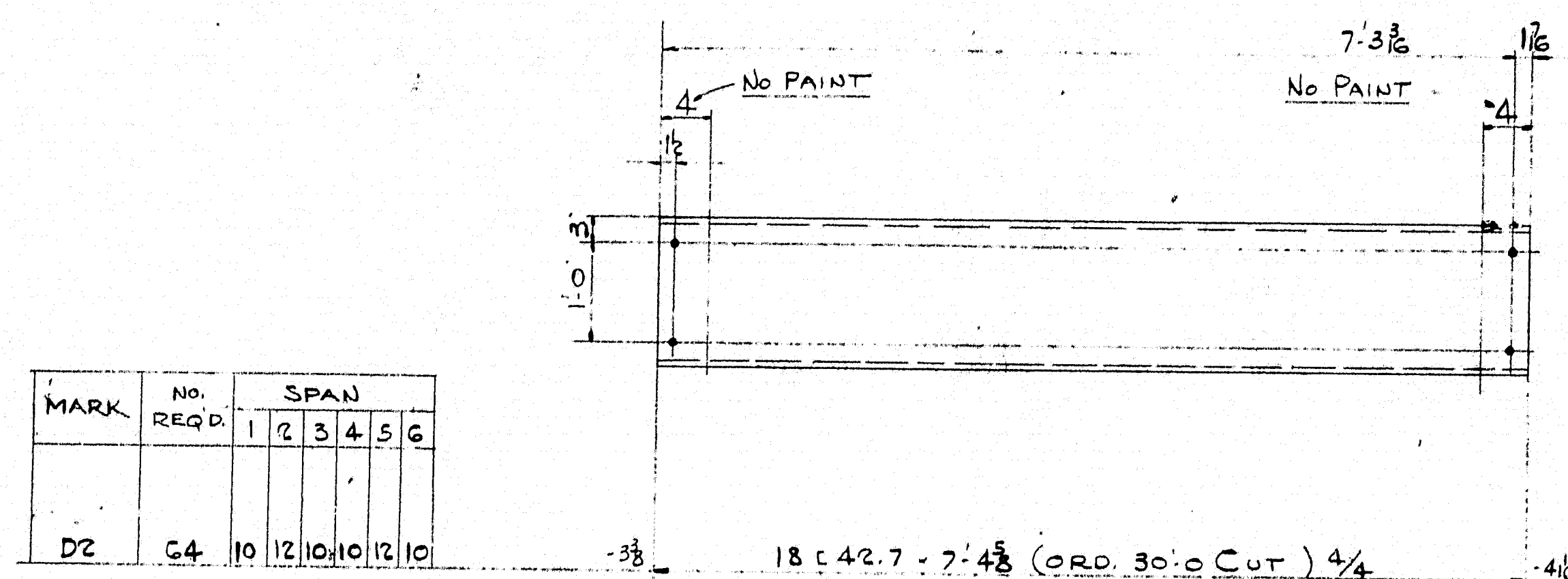
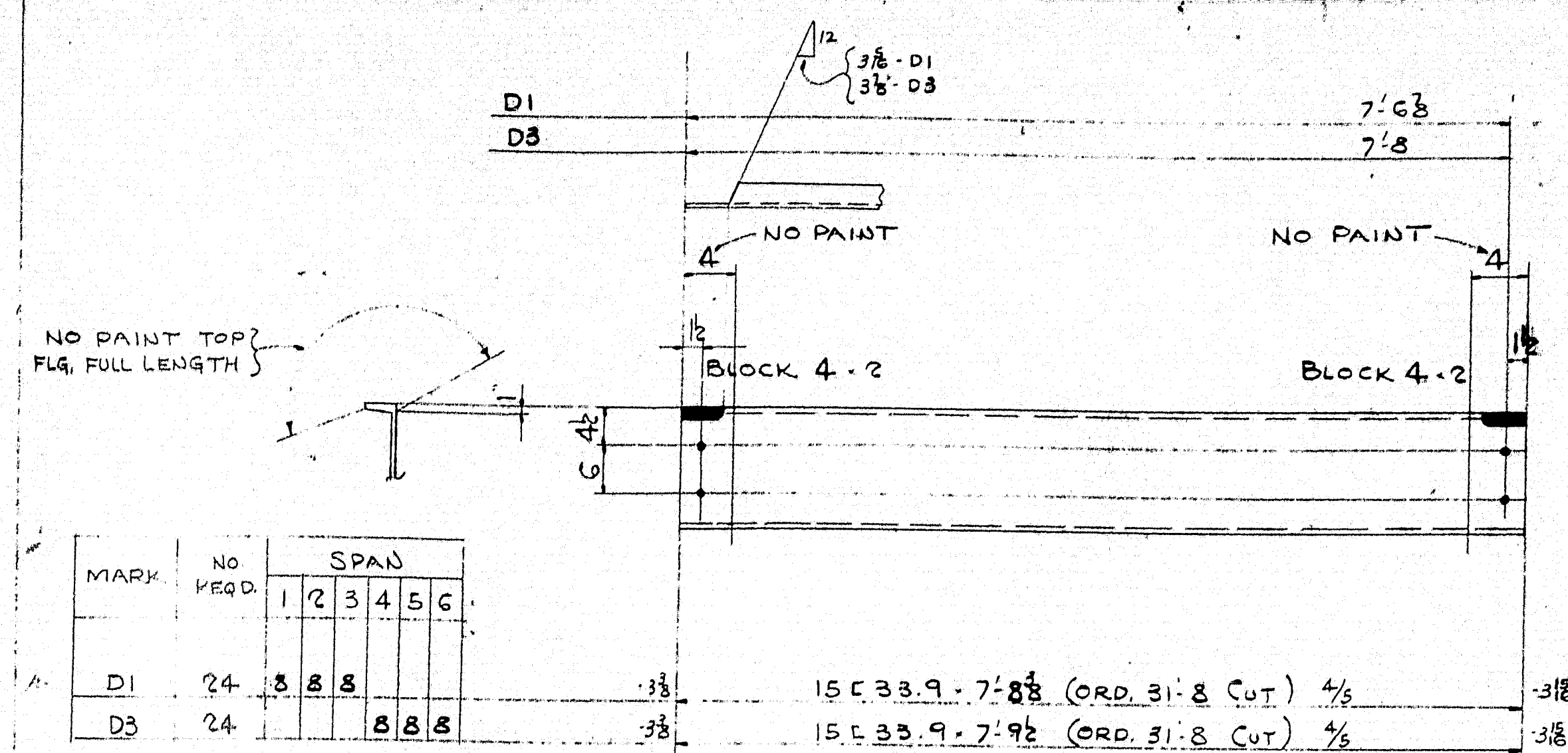
B-362 - 194 - 50-51 ^{1/2}	(ORD 51-0 CUT 50-9 ^{1/2})	3/4
B-362 - 194 - 50-51 ^{1/2}	(ORD 51-0 CUT 50-9 ^{1/2})	3/4
B-362 - 194 - 50-51 ^{1/2}	(ORD 51-0 CUT 50-9 ^{1/2})	3/4
B-362 - 194 - 50-C	(ORD 51-0 CUT 50-10 ^{1/2})	3/4
B-362 - 194 - 50-C	(ORD 51-0 CUT 50-10 ^{1/2})	3/4
B-362 - 194 - 50-C	(ORD 51-0 CUT 50-10 ^{1/2})	3/4

6. R. 2A. 2. 1-G Ma } (ORD 18. 2. 1-G) 5/6
 6. R. 2A. 2. 1-G Mb }
 14. R. 2A. 2. 2-G Mc } 2. 518, 524 }
 14. R. 2A. 2. 2-G Md } 2. OTHERS } (ORD 30. 2. 1-G) 5/4
 6. R. 2A. 2. 2-G Me } 2. 512, 517 }
 6. R. 2A. 2. 2-G Mf } 2. OTHERS }
 6. R. 2A. 2. 1-G Mg } (ORD 18. 2. 1-G) 5/6
 2 F WELD. 36. 0 (C. 0 EA. PC.)
 3 F WELD. 192. 0 2. 518, 525
 2. 518, 525 OTHERS

RIVETS —
OPEN HOLES $\frac{15}{16}$ " UNLESS NOTED
REAM
MILLING
PAINT ONE SHOP COAT AS PER SPECS.
UNLESS NOTED.
WELDING AS PER SPECS.
SHOP CONTACT SURFACES NO PAINT

TEMP.	CUSTOMER: CALLAHAN BROS. INC. MECHANICAL FALLS	MAINE
SUPT.	STRUCTURE: INTERSTATE #45 BRIDGE OVER	
LAYOUT	MAIN ST. - WATERVILLE, MAINE	
PITCH	BETHLEHEM STEEL COMPANY	
SHOP INSP.	FABRICATED STEEL CONSTRUCTION	
CL. WID.	BETHLEHEM DRAFTING ROOM BETH WORKS	
R. SMITH	IN CHARGE HOOVER S.C. MADE BY B.F.	
PG.	CHECKED BY S. 12-22-58. TRACED BY	
ENGRD.	REVISED LAST ASSEM. MK.	
O. INSP.		
WEIGHTS		

S.P.R. REQ. NO.	STATE	PROJECT No.	SHEET TOTAL
1	MAINE	1-95-G (14)	8



DIAPHRAGM DETAILS

RIVETS
OPEN HOLES 1/8"
REAM
MILLING
PAINT ONE SHOP COAT AS PER SPECS. UNLESS NOTED
WELDING NONE
SHOP CONTACT SURFACES NO PAINT

TEMP.	CUSTOMER: CALLAHAN BROS. INC. MECHANIC FALLS, MAINE
SUPPLY	STRUCTURE: INTERSTATE #95 BRIDGE OVER
LAYOUT	MAIN ST. WATERTOWN, MAINE
FITTER	BETHLEHEM STEEL COMPANY
SHOP MGR.	FABRICATED STEEL CONSTRUCTION
EC. WEL.	BETHLEHEM DRAFTING ROOM BETH WORKS
E. SMITH	IN CHARGE: HOOVER, SEC. MADE BY: B.T.
SMOKE	CHECKED BY: S. 12.22.58. TYPED BY:
ENDRY	REVISION: LAST APPROV. MK.
D. MORG.	
WEIGHTS	

SHOP NO. CONTRACT CP4433