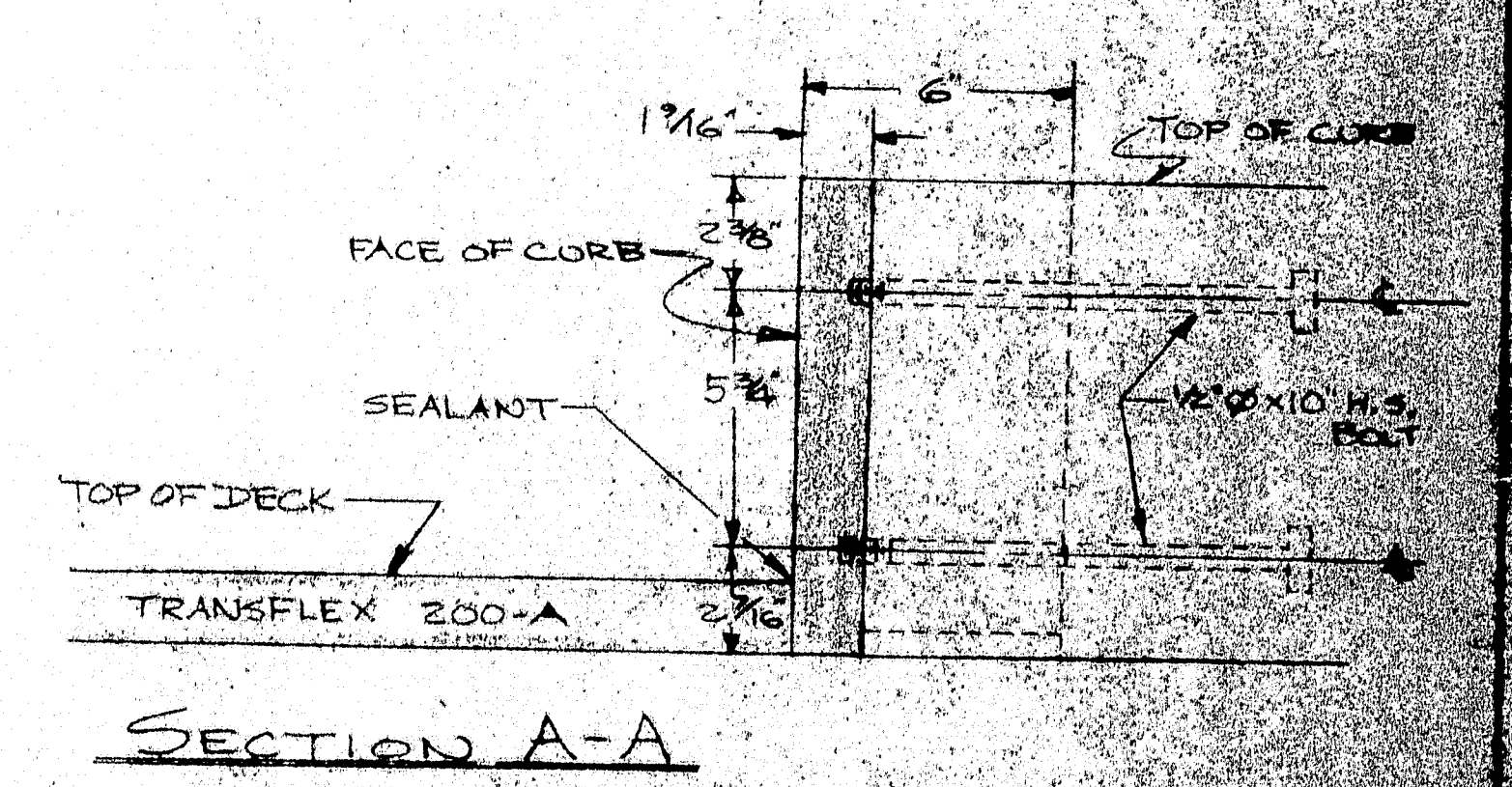
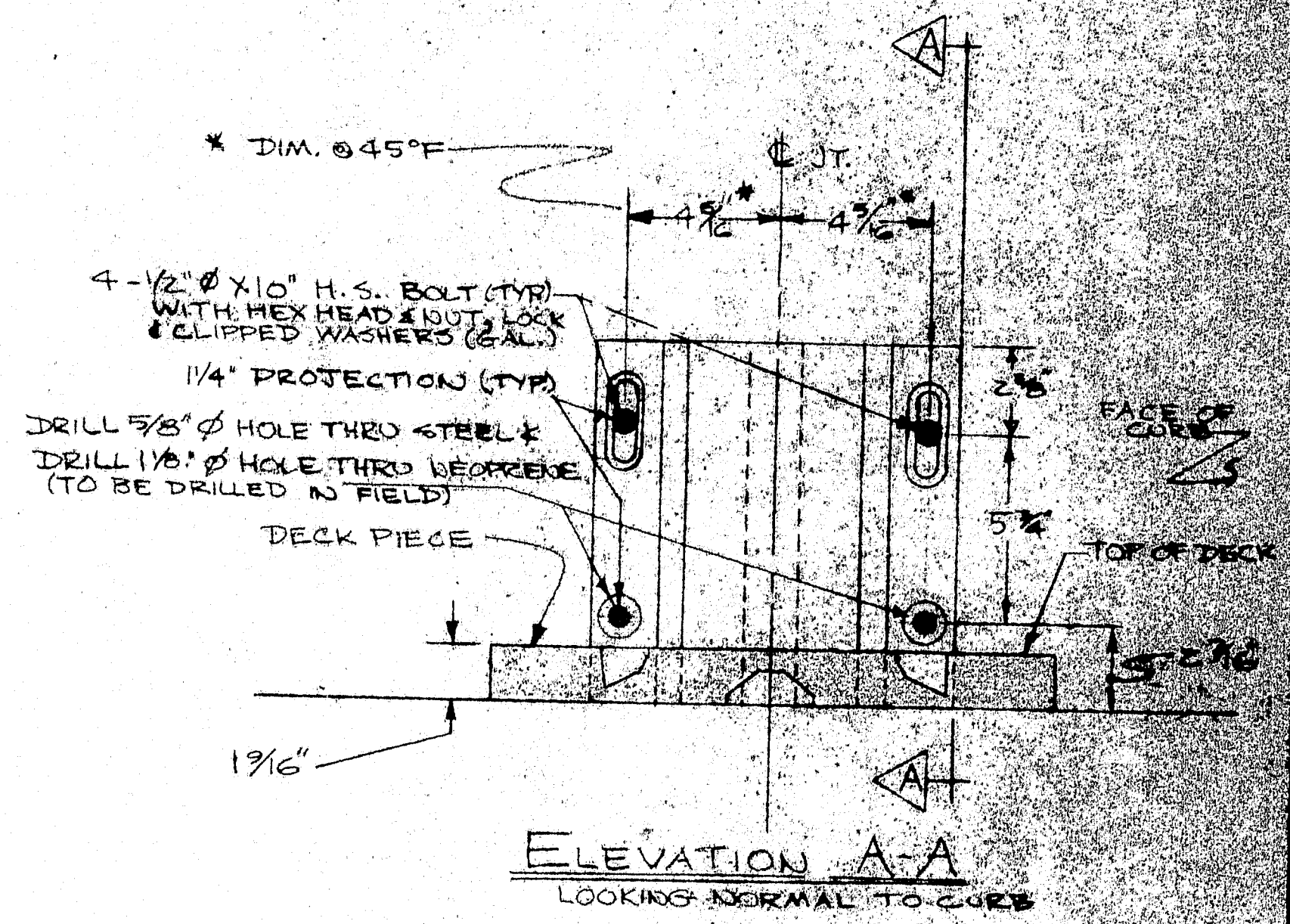
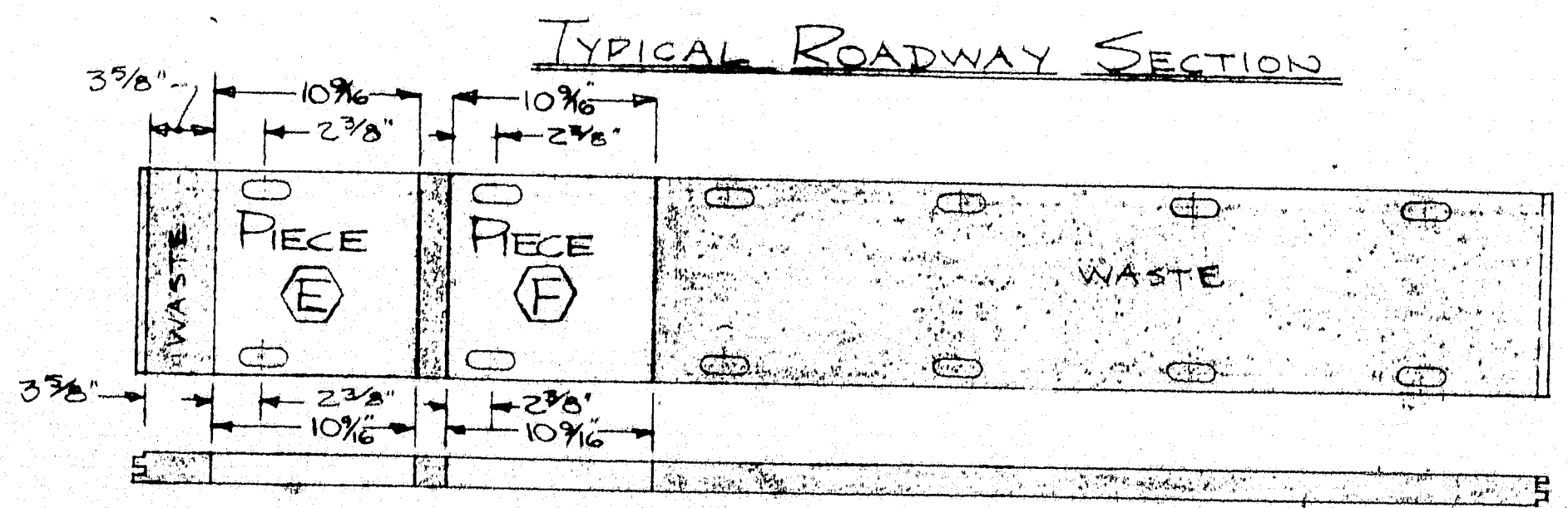
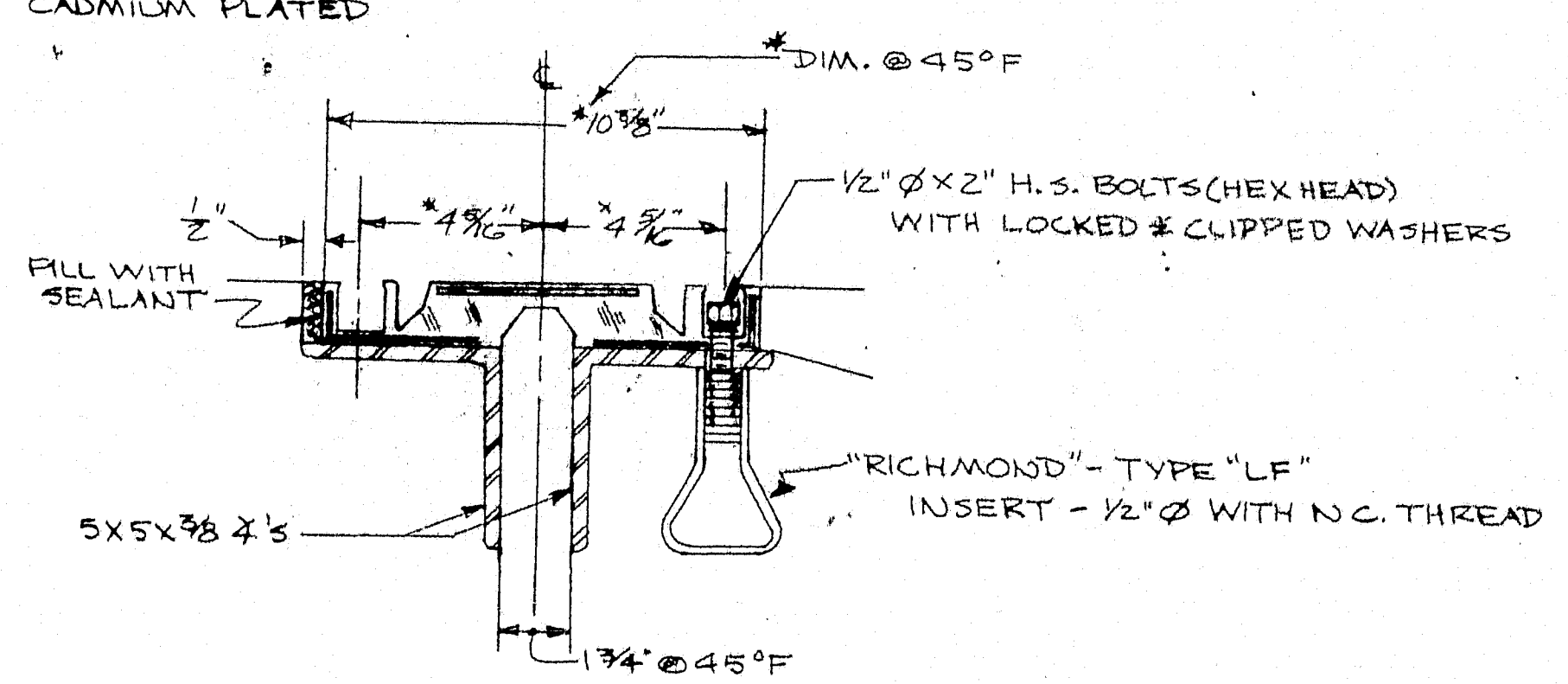
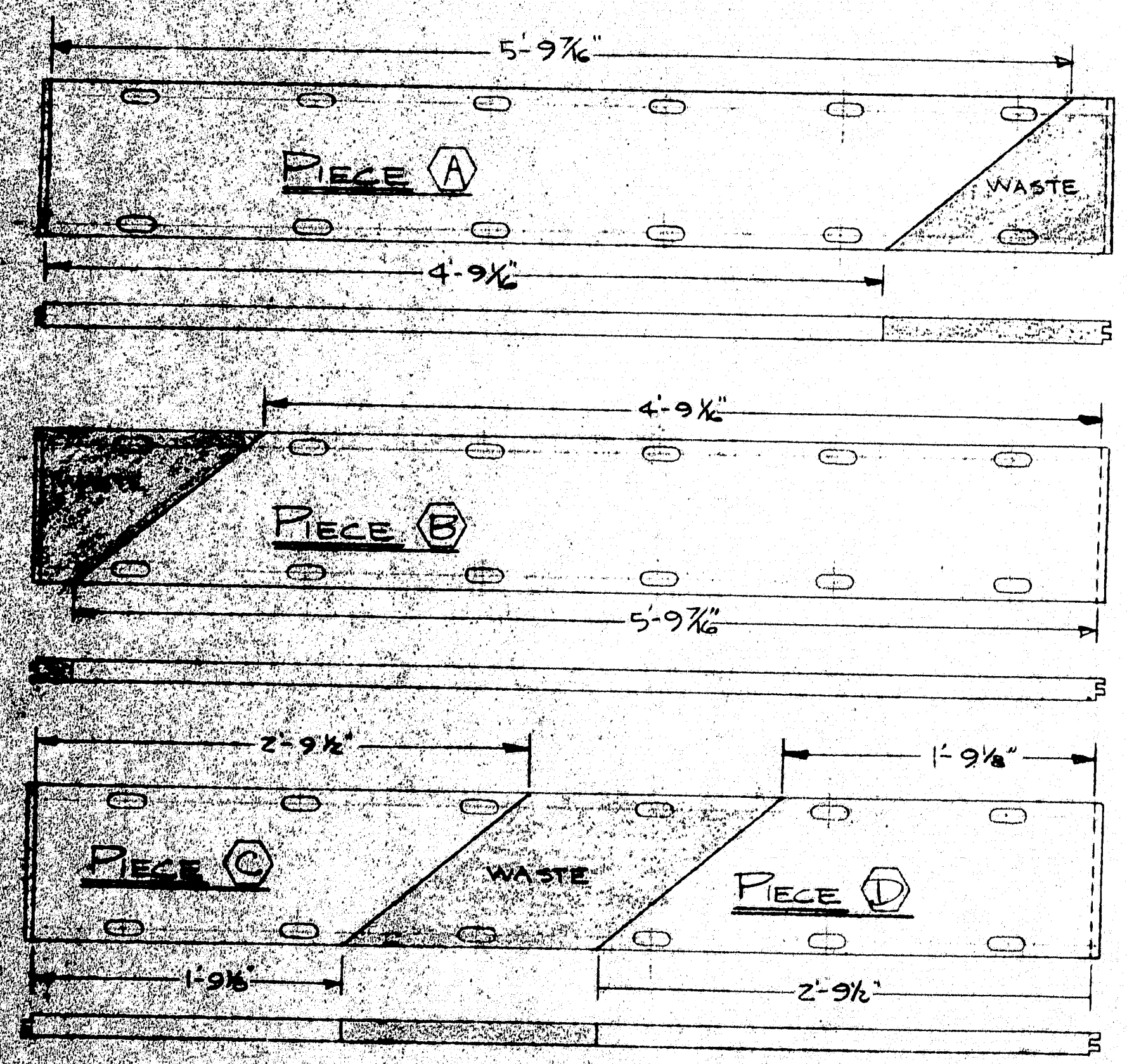


BILL OF MATERIALS			
QUAN	ARTICLE	QUAN	ARTICLE
10	STANDARD UNITS (200-A)	108	CLIPPED WASHER*
8	1/2" X 10" H.S. BOLT*	112	LOCKWASHER*
104	1/2" X 2" H.S. BOLT*	8	1/2" Ø H.S. HEX NUTS*
104	1/2" TYPE 'LF' INSERTS*	108	CAVITY PLUGS
5 GAL	SEALANT		

* CADMIUM PLATED

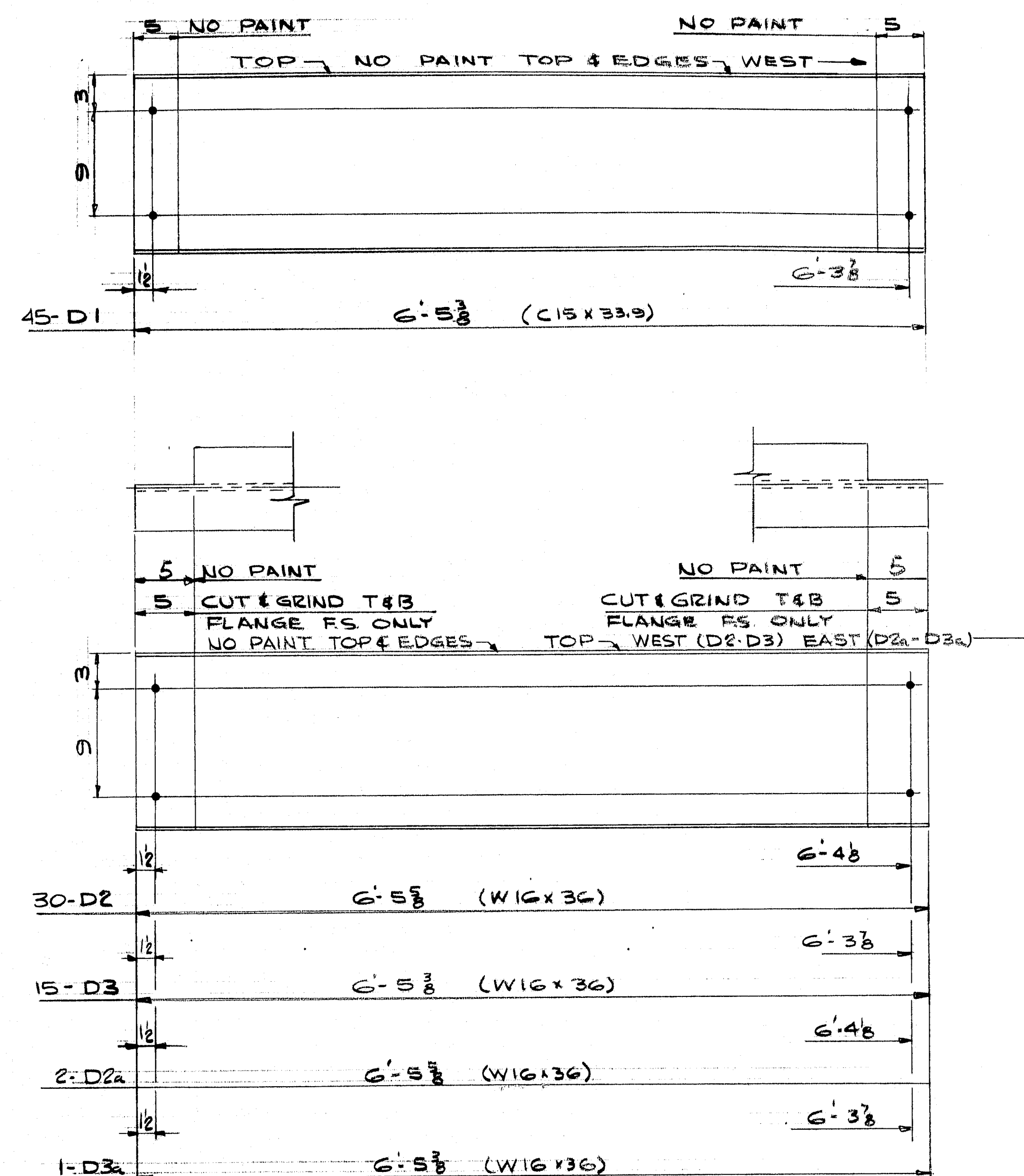


NOTE: VERIFY ALL DIMENSIONS IN FIELD
TIGHTEN BOLTS TO 40 FT.-LBS.
THIS DRAWING SUPERCEDES ALL PREVIOUS DRAWINGS.

CUTTING DETAILS

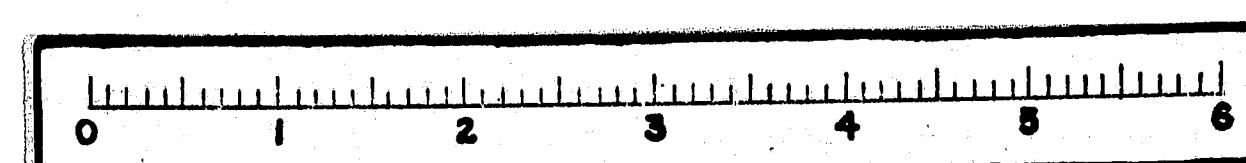
SECTION A-A

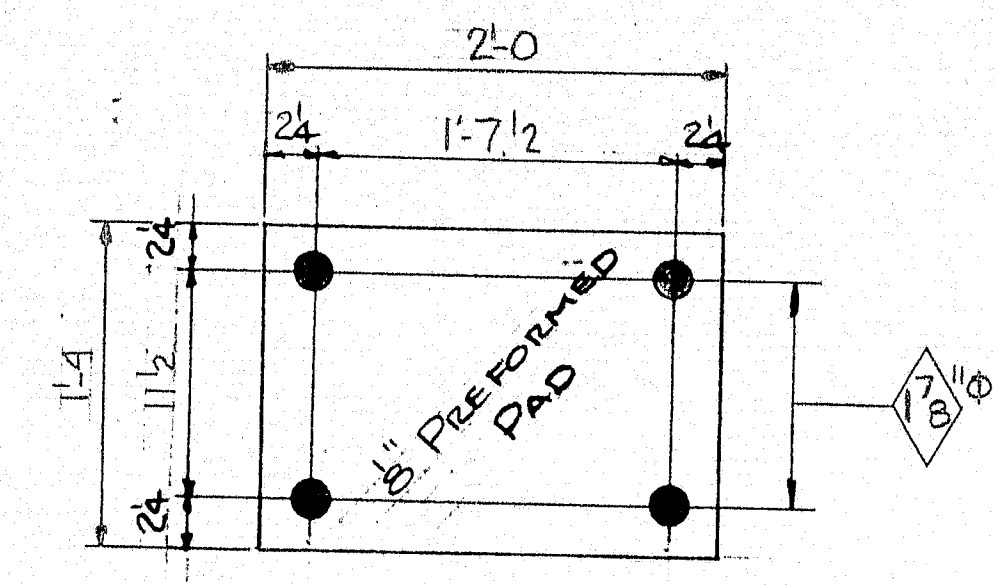
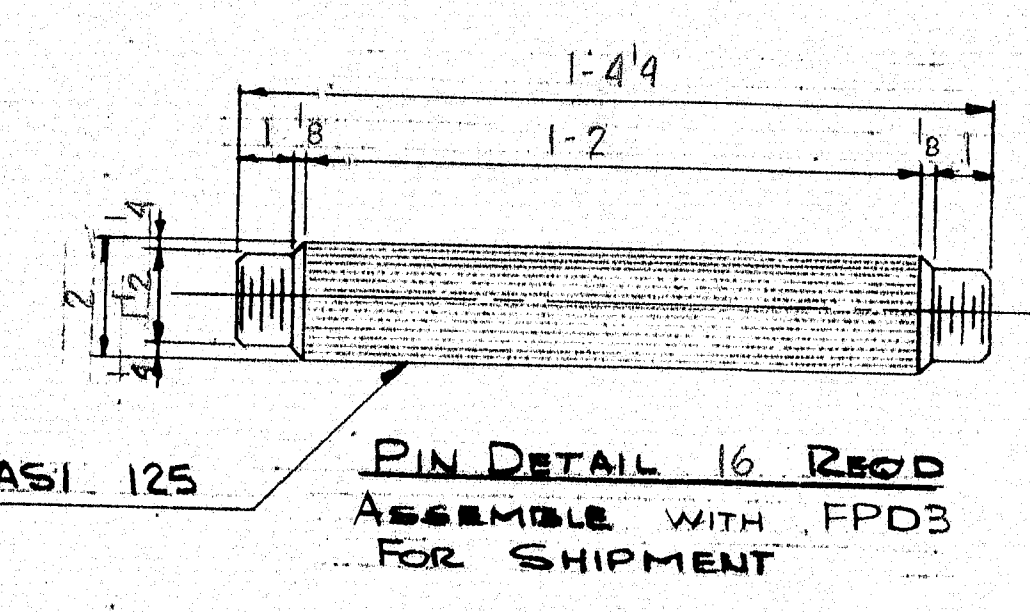
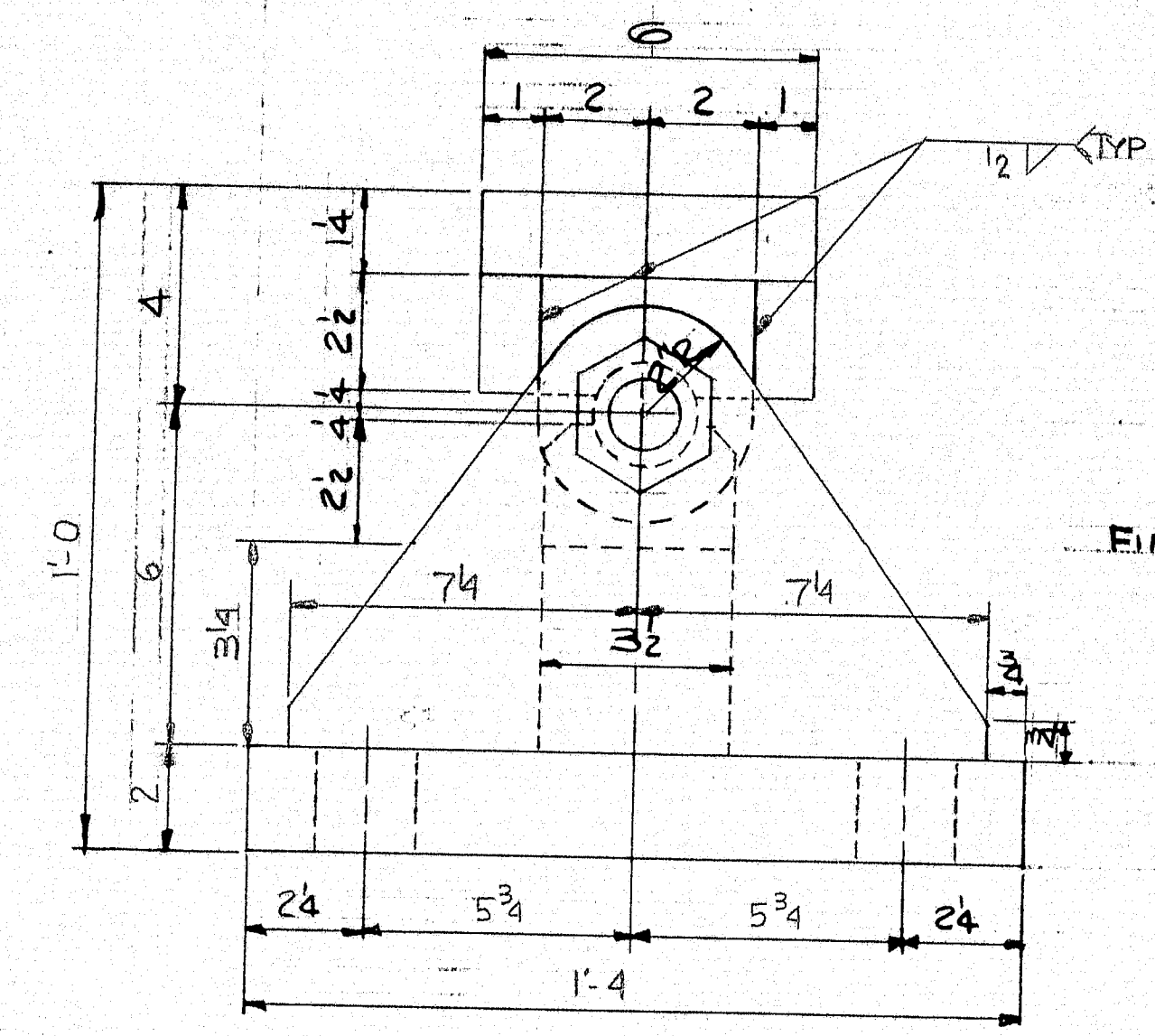
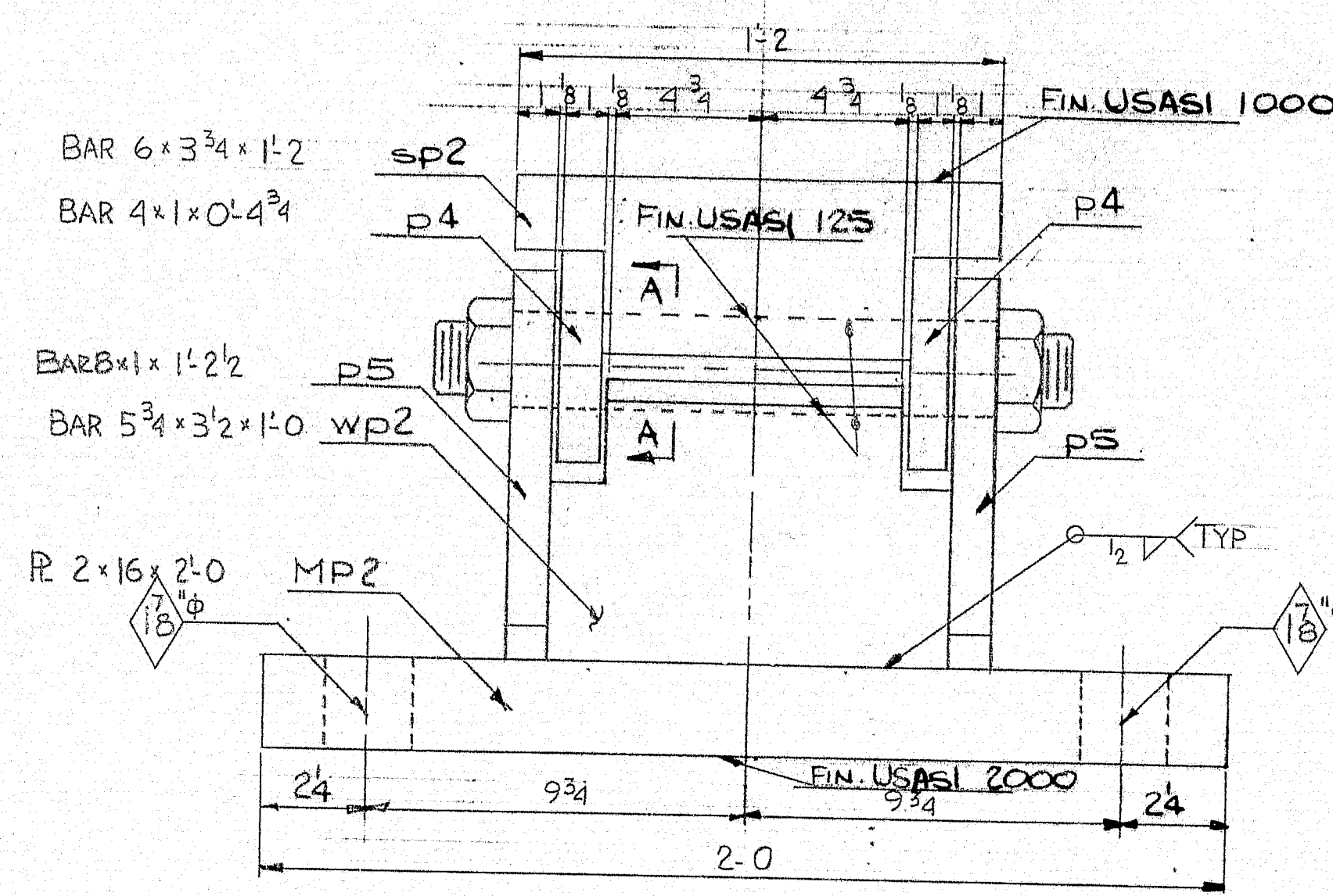
CONCRETE PRESSURE PER SQ. FT. OF FORM <table border="1"> <tr> <th>DEPTH OF CONCRETE (ft.)</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> <tr> <td>Pressure (psi)</td> <td>15</td> <td>30</td> <td>45</td> <td>60</td> <td>75</td> <td>90</td> <td>105</td> <td>120</td> <td>135</td> <td>150</td> </tr> </table>		DEPTH OF CONCRETE (ft.)	1	2	3	4	5	6	7	8	9	10	Pressure (psi)	15	30	45	60	75	90	105	120	135	150	FACTORS AFFECTING CONCRETE PRESSURE 1. WEATHER - Cold weather will delay setting up of concrete, increasing liquid head. Heat adding to the pressure. 2. A FAST POUR - The higher rate of pour, the greater the pressure. 3. VIBRATION - In addition to pumping the concrete, liquid (high hydrostatic pressure), vibration adds a pounding or impact pressure. Accordingly, vibration should be handled with great care. 4. DUMPING OF CONCRETE BY BUCKET OR OTHERWISE - If concrete is dumped on additional impact pressure is added to the concrete pressure. 5. RETARDING ADDITIVES - Cause greater than normal liquid head for a given rate of pour. NOTE: When any of the above conditions exist, extra care should be exercised in pouring and additional ties used.		A. H. HARRIS & SONS, INC. <i>Concrete Construction Specialists</i> 321 Ellis Street New Britain, Conn. (203) 225-7471 180 Providence St. Hyde Park, Mass. (617) 364-2234 Haddonfield, New Jersey (201) 998-6700		GENERAL NOTES 1. This drawing shows the application of our products and is only to be used as a supplement to the architect's or engineer's plans. 2. To guard against heavy pressure, it is important to strengthen form work with braces at all intersections where ties do not occur. 3. Drilling of holes through the plywood faces of the forms shall be regarded as damage beyond ordinary wear and tear, and the cost of repairing such holes or replacing the plywood faces will be charged to the lessee. 4. All fillers smaller than 1" are supplied by contractor. 5. To obtain maximum use of forms, pour schedule indicated must be followed.		LEGEND BLS - BRICK LEDGE BRACKET BO - BRIDGE BP - BRIDGE PLATE BT - BRIDGE TIE F - FILLER (LESS THAN 2 1/2" IN WIDTH) FA - FILLER ANGLE FIP - FORM IN FIELD FB - FOOTING STEPS FT - FLAT TIE (TYPE INDICATED) GPT - GANG PANEL TIE H - HORIZONTAL IBC - INSIDE BAY CORNER IC - INSIDE CORNER (1/4" X 1/4" FACE) JBP - JOINT BUILT FILLER (1/4" X 1/4" FACE) OBC - OUTSIDE BAY CORNER OC - OUTSIDE CORNER P - PANEL (1/4" X 1/4") PP - PLASTER FORM PT - PLASTER TIE SB - STRONGBACK T - TIE V - VERTICAL VW - VERTICAL WALKER W - WALKER WB - WALKER BRACE WT - WALKER TIE HC - HINGED CORNER		FOR SUST CONSTRUCTION CO. JOB MACHIAS RIVER - TRANSFLEX 200-A LOCATION TOWNSHIP, MAINE DRAWN BY SEP DATE 11/2/70 DRAWING NO. 1 SHEET NO. 1 CHECKED DATE REP. A.R. SHIPLEY	
DEPTH OF CONCRETE (ft.)	1	2	3	4	5	6	7	8	9	10																							
Pressure (psi)	15	30	45	60	75	90	105	120	135	150																							



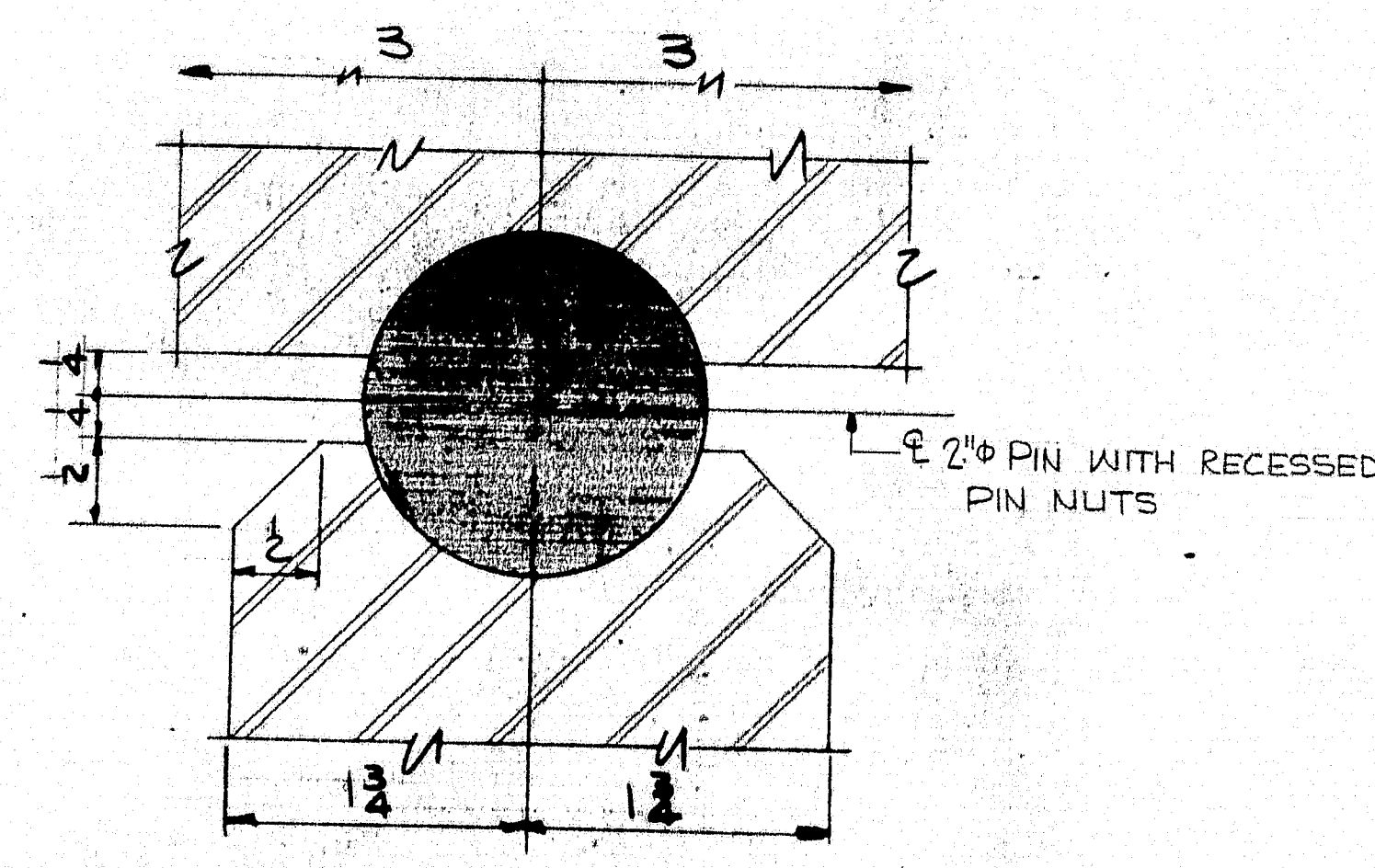
SHIP		BILL OF MATERIAL			JOB NO. 570-437		DWG. NO. E-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS	
D1	45		C15 x 33.9	6' 5 3/8		10		
D2	30		W16 x 36	6' 5 3/8		9		
D2a	2		D0	6' 5 3/8		9		
D3	15		D0	6' 5 3/8		9		
D3a	1		D0	6' 5 3/8		9		
			</					

117-135

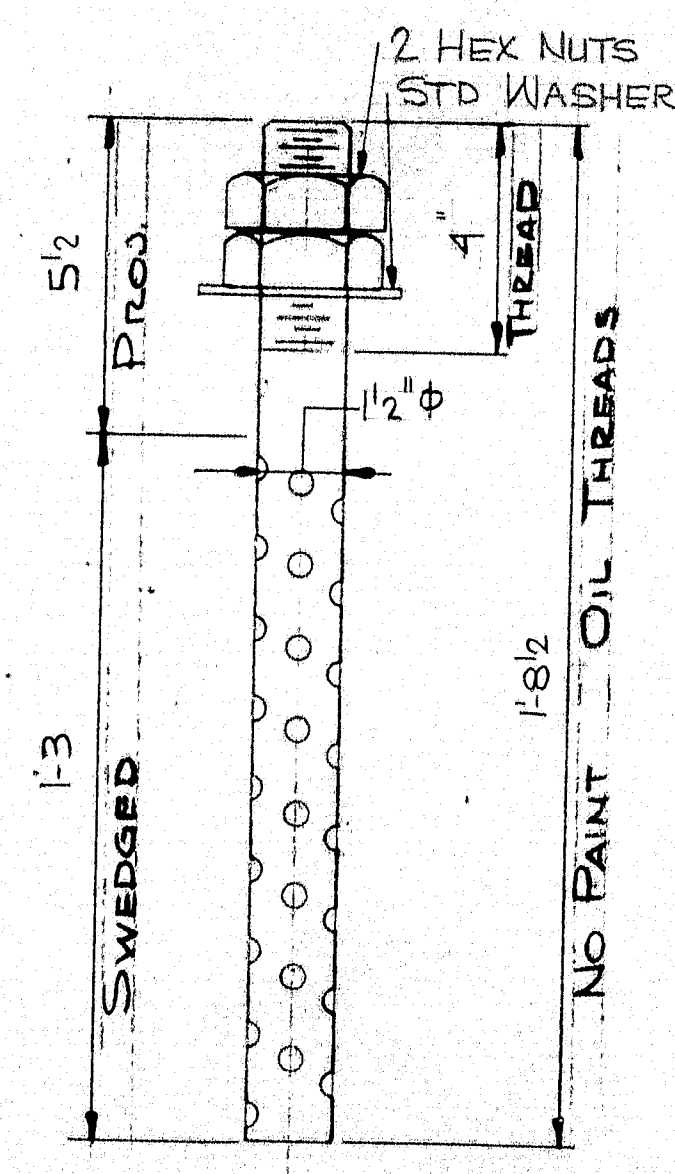




FIXED PEDESTAL - FPD3 - 16 REQ'D
@ PIER #3, 4, 5 & 6



SECTION A-A
PIN NOTE:
THE DIAMETER OF THE PIN HOLE
SHALL NOT EXCEED THAT OF THE
PIN BY MORE THAN 1/50 INCH.

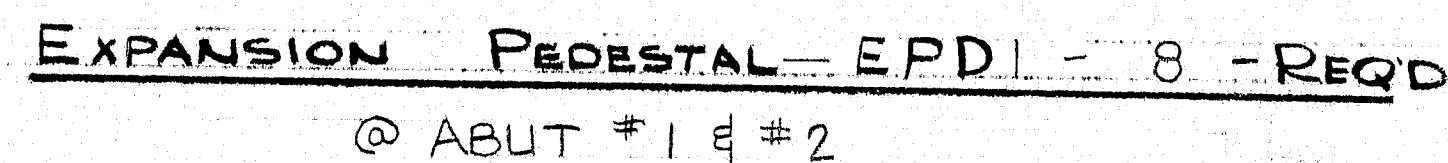


AB2 64 REQ'D

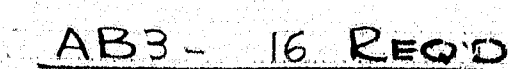
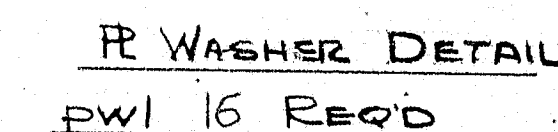
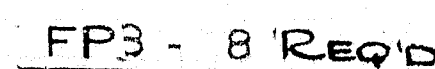
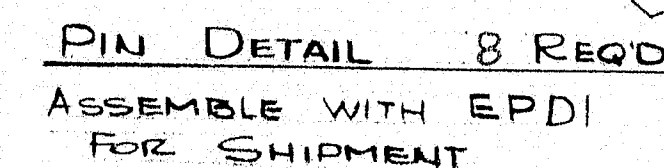
PAINT NOTE:
NO PAINT ON TOP OF SOLE PLATES AND
1\"/>

SHIP		BILL OF MATERIAL			JOB NO. B70-437		DWG. NO. B2	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS	
FPD3	16		SHOP ASSEMBLY					
	16	MP2	FE 2 x 16	2	0			
	32	P4	BAR 4 x 1	0	2 3/4			
	32	P5	BAR 8 x 1	1	2 1/2			
	16	WP2	BAR 5 3/4 x 3 1/2	1	0			
	16	SP2	BAR 6 x 3 3/4	1	2			
FP2	16		PAD 16 x 8	2	0		PERFORMED PAD REQ. NO. 3993	
	16	SHOP	2" ROD	1	4 1/4			
	32	D6	1 1/2" NUTS				EXCESS PIN	
ABZ	64		1 1/2" ROD	1	8 1/2		SWEDGED	
	128	SHOP	1 1/2" HEX NUTS					
FIELD	64		1 1/2" STD WASHER					

STEEL: ASTM A36	
WELDING ELECTRODE E70, 1/16, 1/8, 3/8	
SHOP CONN: WELDED & BOLTED	
FIELD CONN: WELDED	
HOLES: AS NOTED	
PAINT: STATE OF MAINE SPECS & AS NOTED	
SPECIAL CLEANING: BLAST CLEAN	
APPROVED: AS NOTED 12-12-70	
FIXED PEDESTAL DETAILS	
PRINT DIST.	
FA	12-9-70 2
E&E	12-15-70 8
SHOP	12-15-70 4
CUST	3-12-71 2
Bancroft & Martin Inc. South Portland, Maine 04106	
JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE	
CUSTOMER: NORMAN E. JACKSON INC.	
DESIGNER: MAINE SHC. BRIDGE DIV.	
REV.	
CHECKED	12-3-70 LHL
DRAWN	10-30-70 DWL
ORDER NO.	
JOB NO.	B70-437
DRAWING NO.	B2

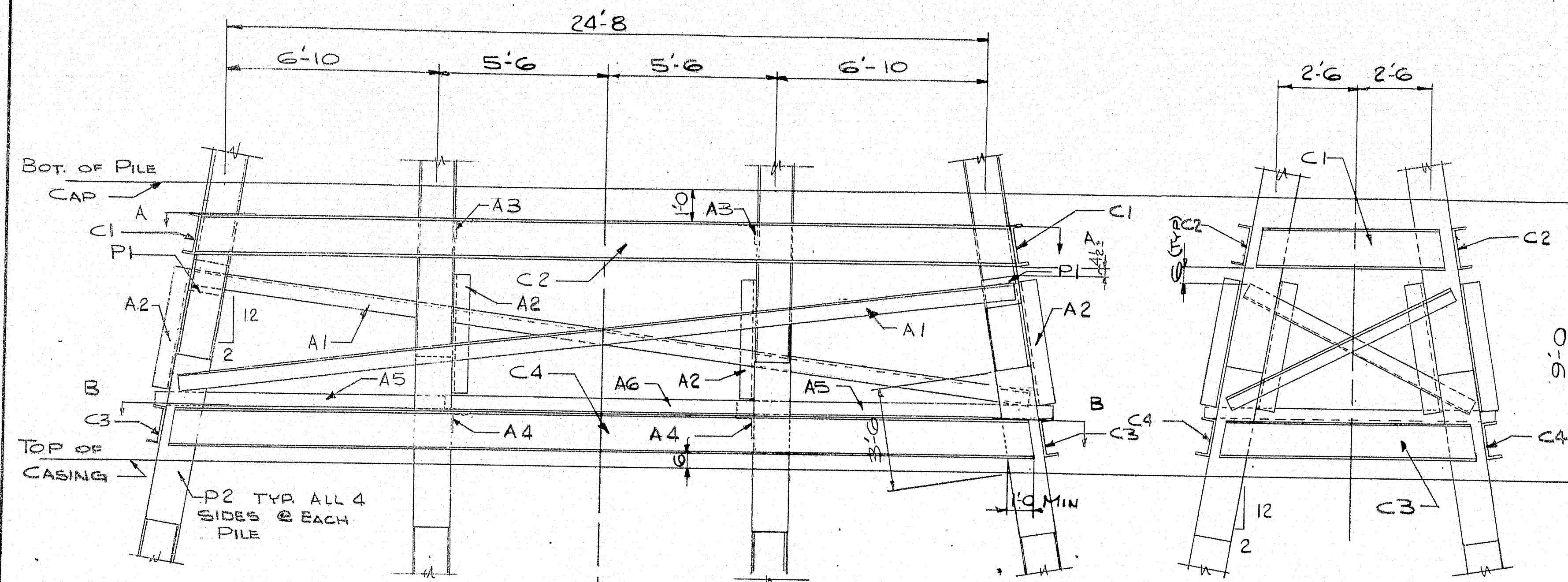


PIN NOTE:
THE DIAMETER OF THE PIN HOLE
SHALL NOT EXCEED THAT OF THE
PIN BY MORE THAN .50 INCH.



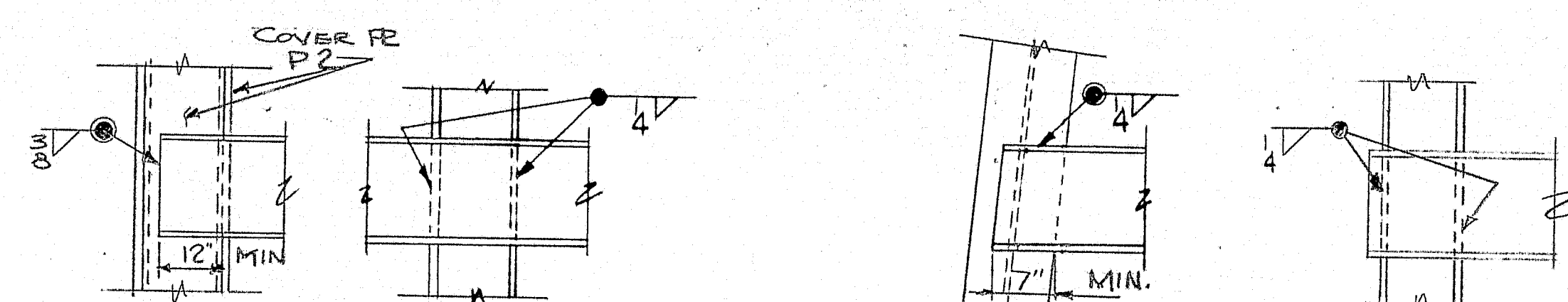
NO PAINT ON TOP OF SOLE PLATES AND 1"
DOWN FROM TOP ON SIDES, COAT WITH BOILED
LINSEED OIL .
NO PAINT ON SURFACES WITH ASA 125 FINISH,
COAT WITH MIXTURE OF WHITE LEAD AND TALLOW.
NO PAINT ON ANCHOR BOLTS - OIL THREADS
MASONRY RE'S & BEARING SURFACES OF EXPANSION BEARING LOCKER
USASI 250 FINISH, SHALL RECEIVE 2 COATS. OF SHOP PAINT.

125-150

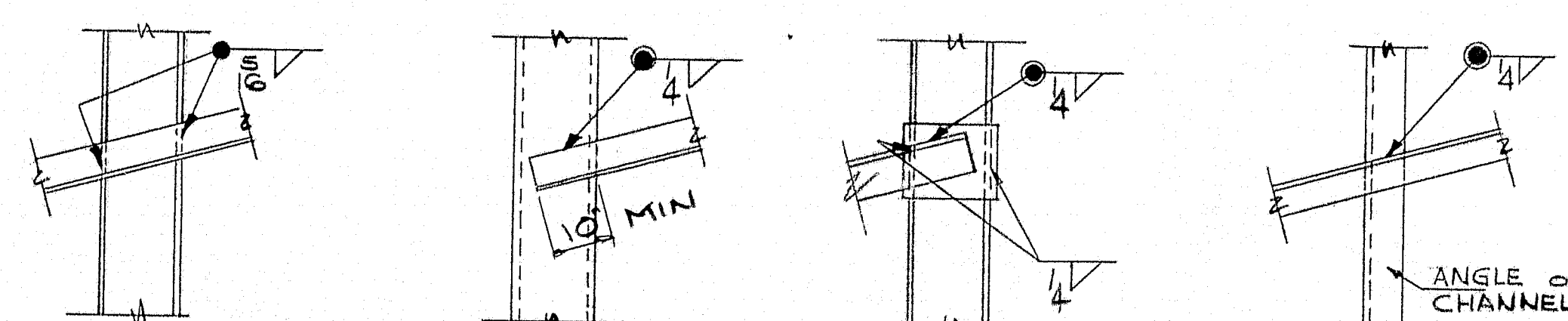


NOTE:
ANY ADDITIONAL FILLER PLATES
NEEDED FOR PROPER FIT UP SHALL
BE SUPPLIED TO THE CONTRACTOR
AS AN EXTRA

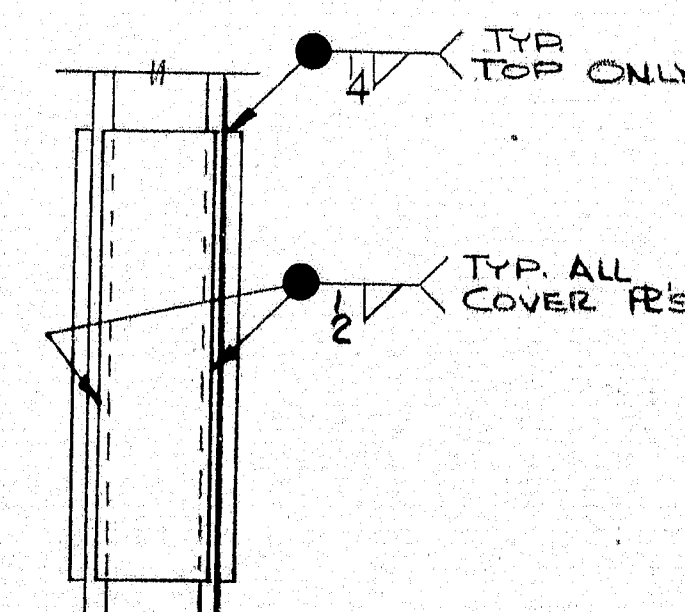
2-C1	6'-7	(C 15 x 33.9)
2-C2	26'-9	(C 15 x 33.9)
2-C3	8'-8	(C 15 x 33.9)
2-C4	28'-5	(C 15 x 33.9)



TYPICAL CHANNEL WELDS



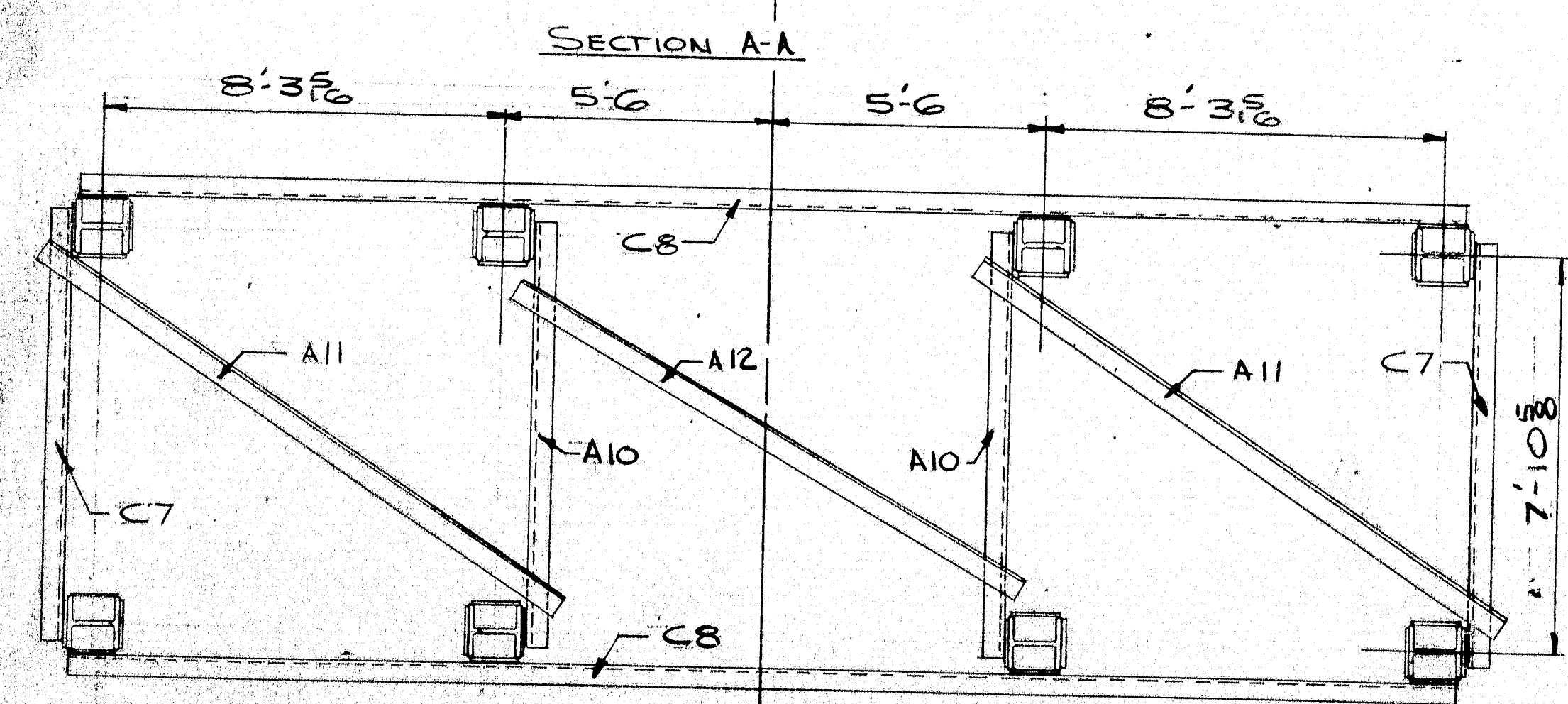
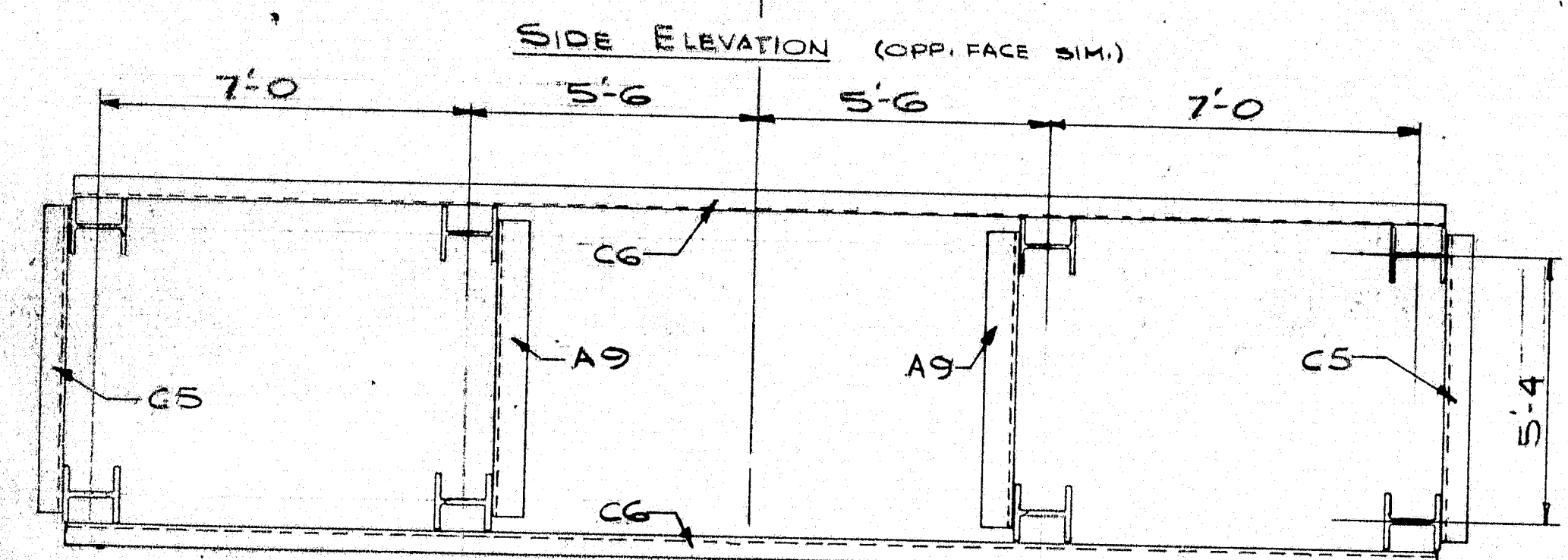
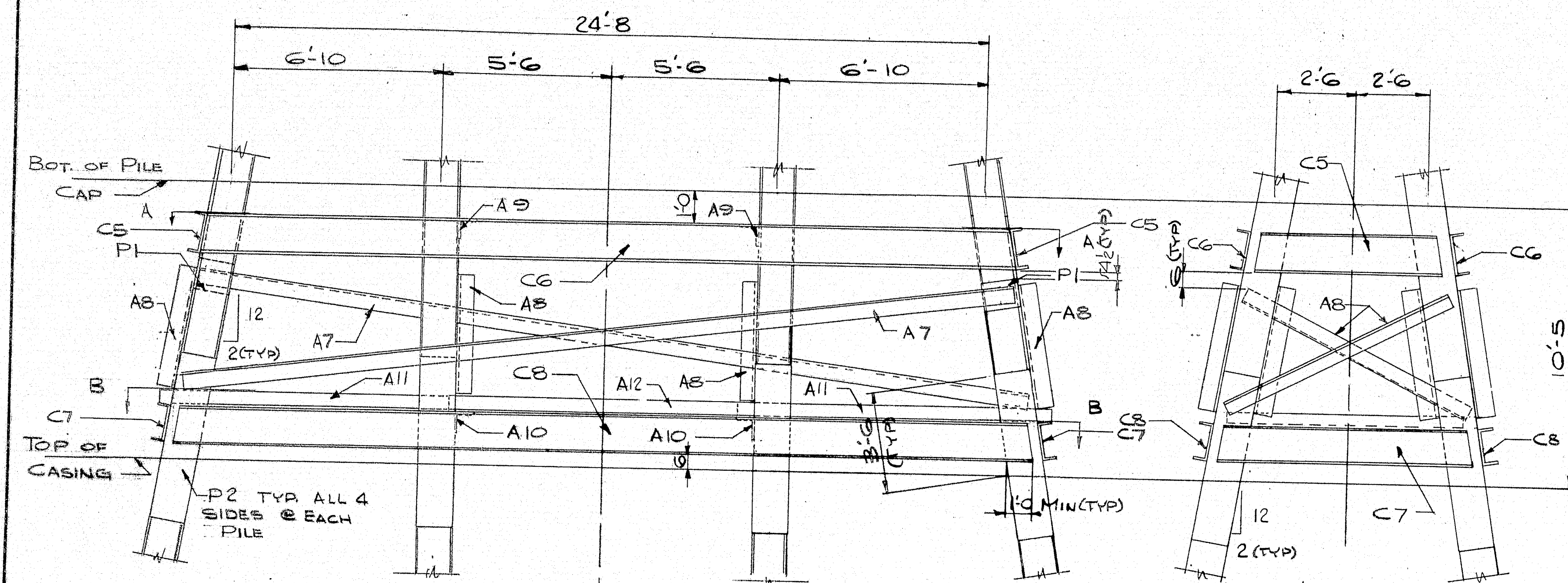
TYPICAL ANGLE WELDS



COVER PLATE WELDS

SHIP		BILL OF MATERIAL			JOB NO. B70-437		DWG. NO. M-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS	
A1	4		46x6x8	27	0		No FAB	
A2	4		Do	8	0			
A3	2		Do	6	0			
A4	2		Do	8	1			
A5	2		Do	12	6			
A6	1		Do	12	0		No FAB	
C1	2		C 15x33.9	6	7			
C2	2		Do	26	9			
C3	2		Do	8	8			
C4	2		Do	28	5			
P1	4		R 3/4 x 9	1	3		No FAB	
P2	32		R 3/4 x 13	5	6		No FAB	
</								

WANTED NOV. 20, 1970

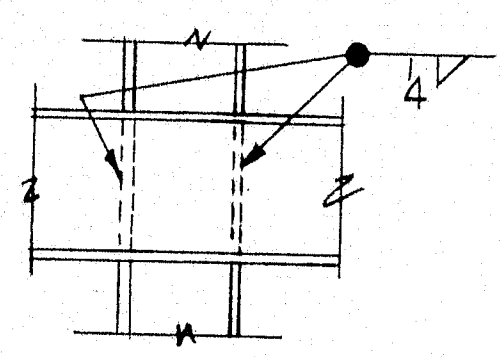


BRACING FOR
PIER N° 7

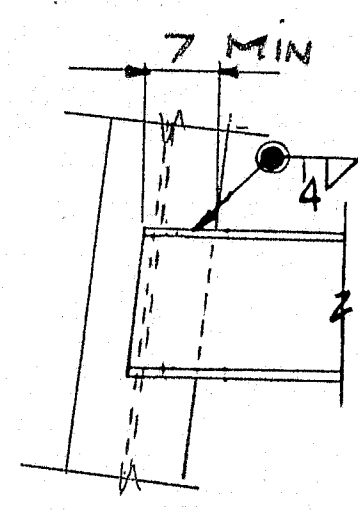
END ELEVATION (OPP. FACE SIM.)

SIDE ELEVATION (OPP. FACE SIM.)

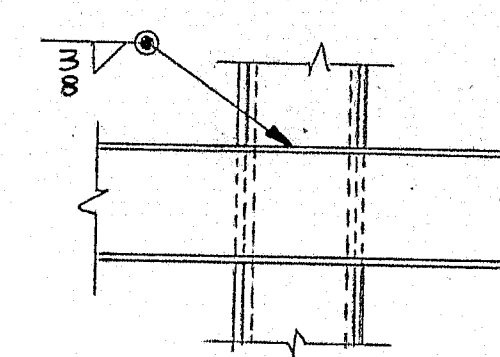
2-C5	6'-7"	(C 15 x 33.9)
2-C6	26'-9"	(C 15 x 33.9)
2-C7	9'-1 1/2"	(C 15 x 33.9)
2-C8	28'-9 1/2"	(C 15 x 33.9)



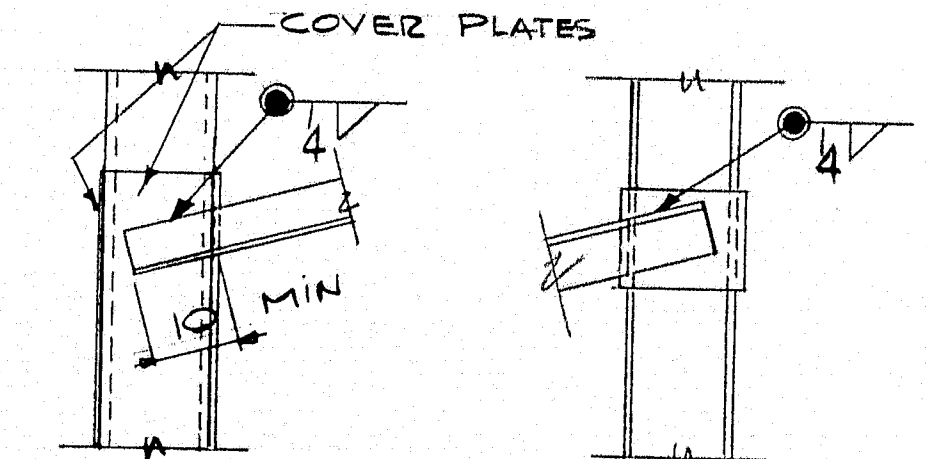
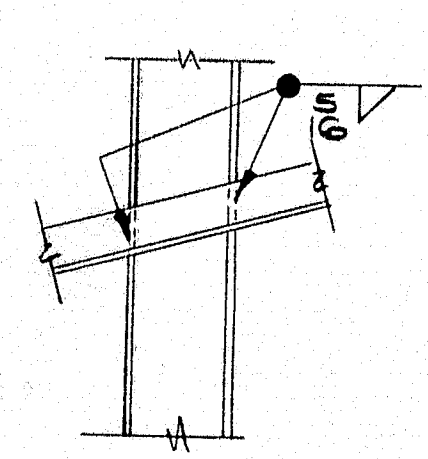
TYPICAL CHANNEL WELDS



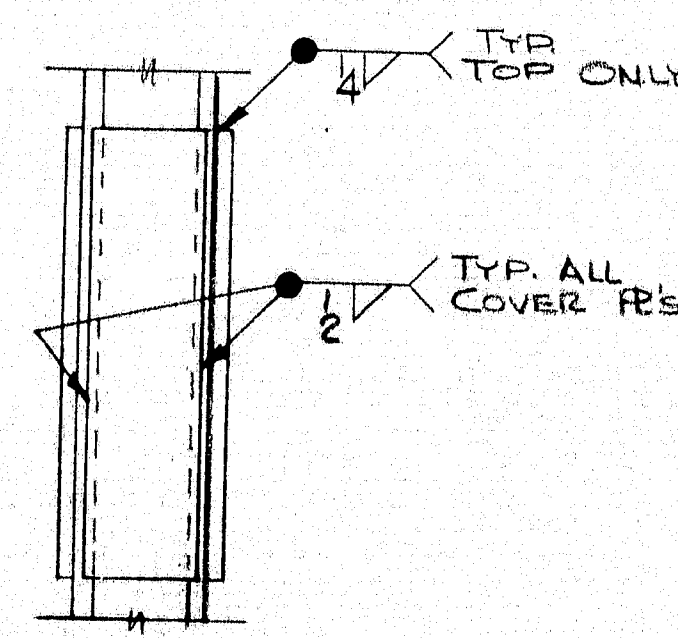
TYPICAL ANGLE WELDS



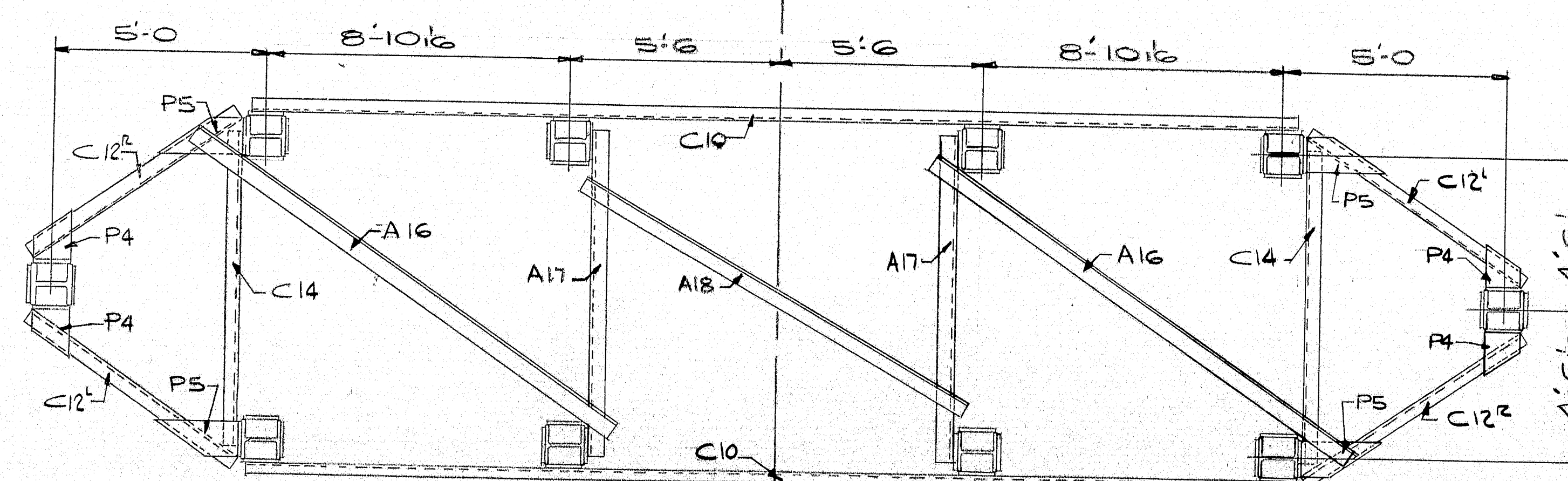
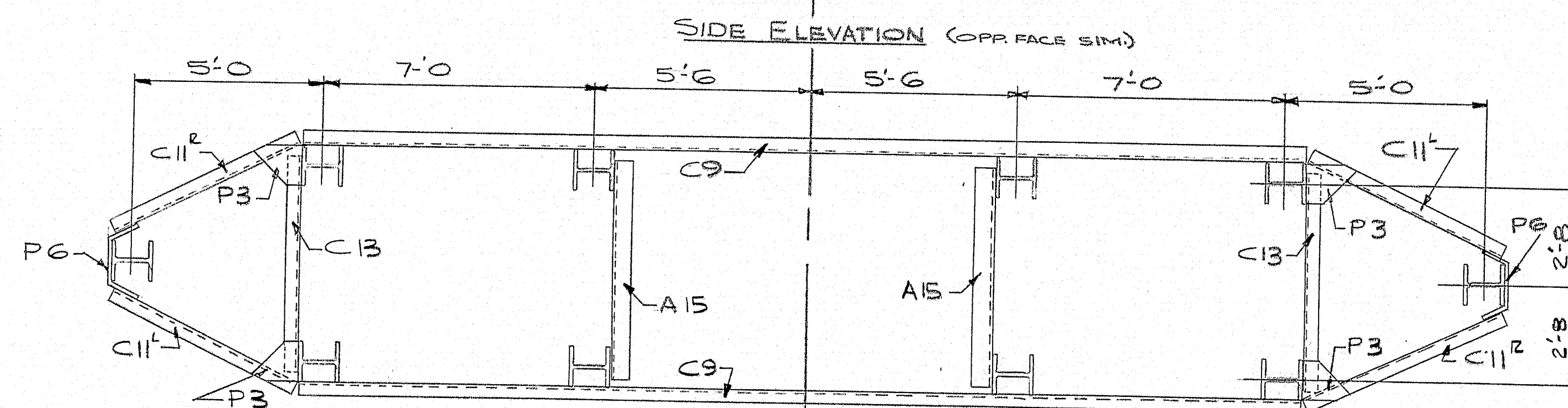
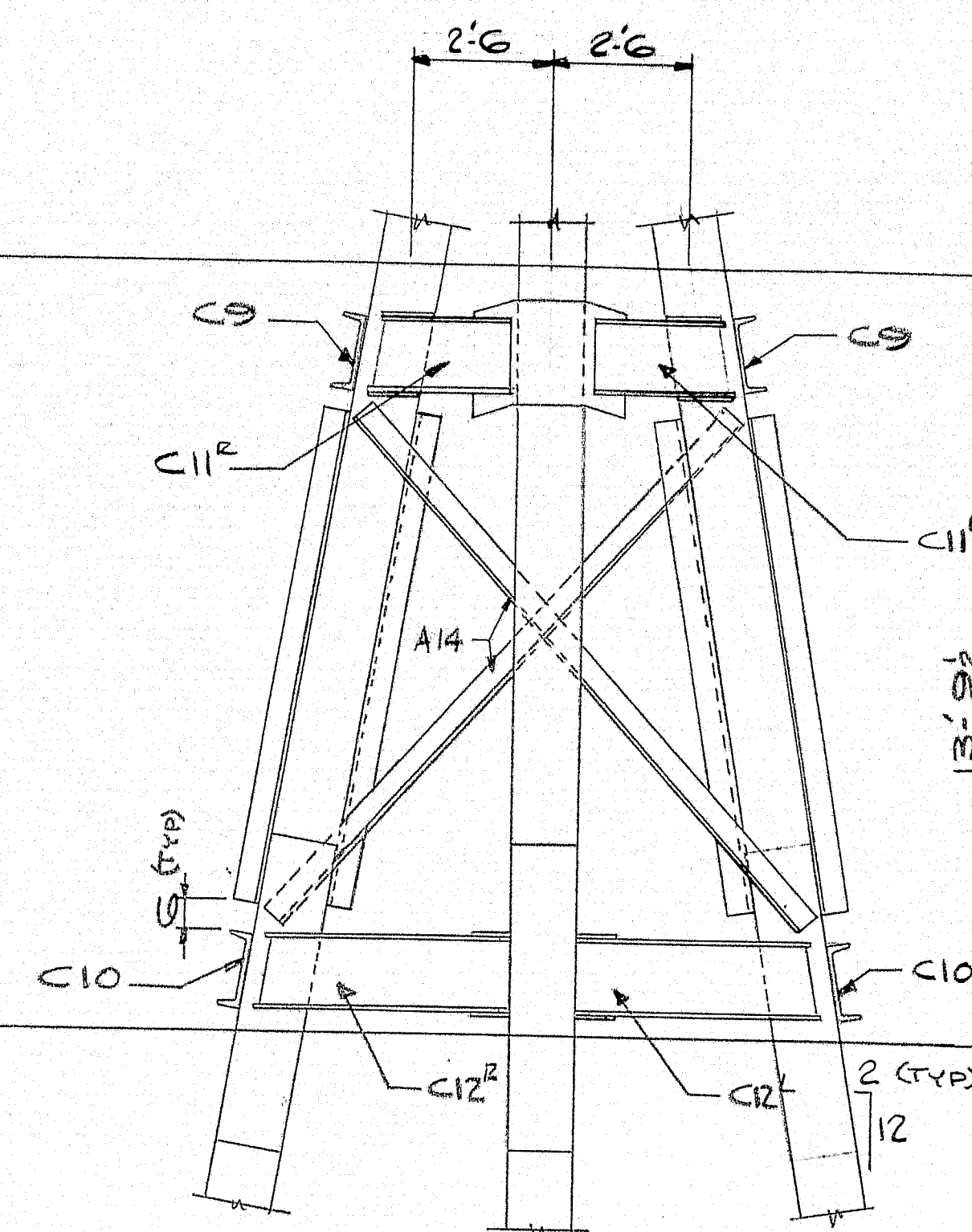
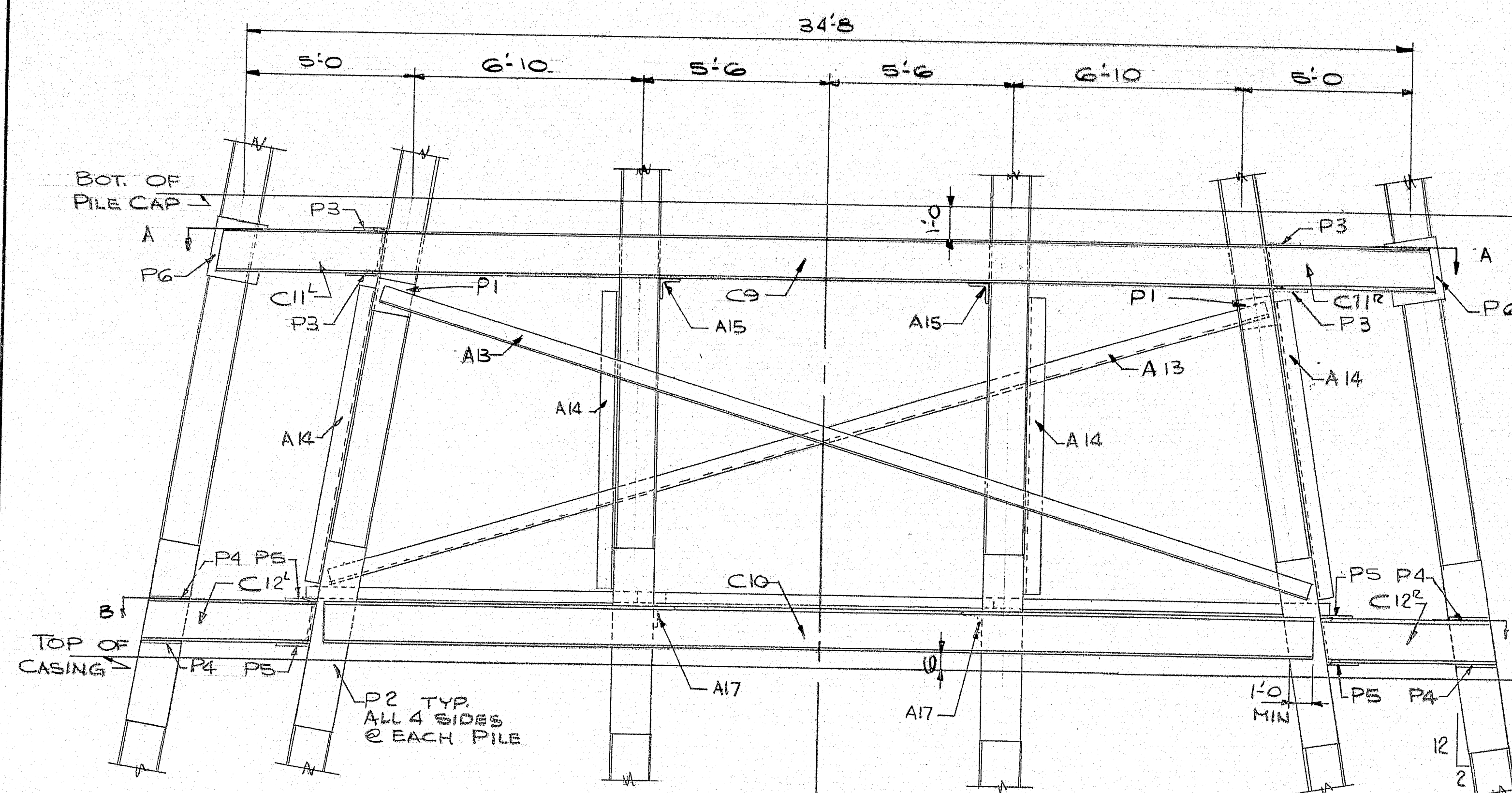
ANGLE OR
CHANNEL



COVER PLATE WELDS



SHIP		BILL OF MATERIAL		JOB NO. B70-437		DWG. NO. M-2	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
A7	4		L6x6x 3/8	27	4		No FAB
A8	4		Do	8	10		
A9	2		Do	6	0		
A10	2		Do	8	6 1/8		
A11	2		Do	12	8		
A12	1		Do	12	4		No FAB
C5	2		C 15x33.9	6	7		
C6	2		Do	26	9		
C7	2		Do	9	1 1/2		
C8	2		Do	28	9 1/2		
P1	4		R 3/4 x 9	1	3		No FAB
P2	32		R 3/4 x 13	5	6		No FAB
WANTED DEC. 15, 1970							
PROJ. N° 2253 (OEP N° 234-DE-A244)							
ITEM N° 504.70							
STEEL: ASTM A36							
WELDING ELECTRODE E70 16, 18 or 28							
SHOP CONN:							
FIELD CONN: WELDED							
HOLES:							
PAINT: NONE							
SPECIAL CLEANING: BLAST CLEAN							
APPROVED:							
PIER N° 7 BRACING							
PRINT DIST.				Bancroft & Martin Inc.			
2 11-10-70 FA				South Portland, Maine 04106			
1 11-25-70 BAWEL				JOB: MACHIAS RIVER BRIDGE			
1 11-25-70 STATE				EAST MACHIAS, MAINE			
2 11-25-70 CUST				CUSTOMER: NORMAN E. JACKSON			
				DESIGNER: MAINE SHC BRIDGE DIV.			
REV.				ORDER NO.		JOB NO.	
CHECKED 11-10-70 JPF				DRAWING NO.			
DRAWN 10-28-70 RKC				B70-437		M-2	

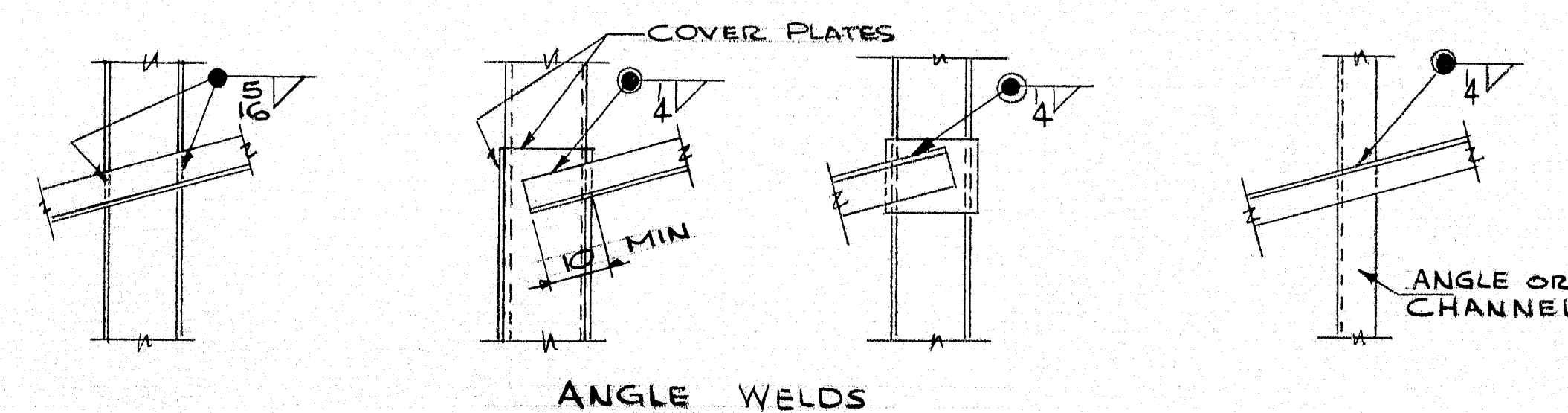
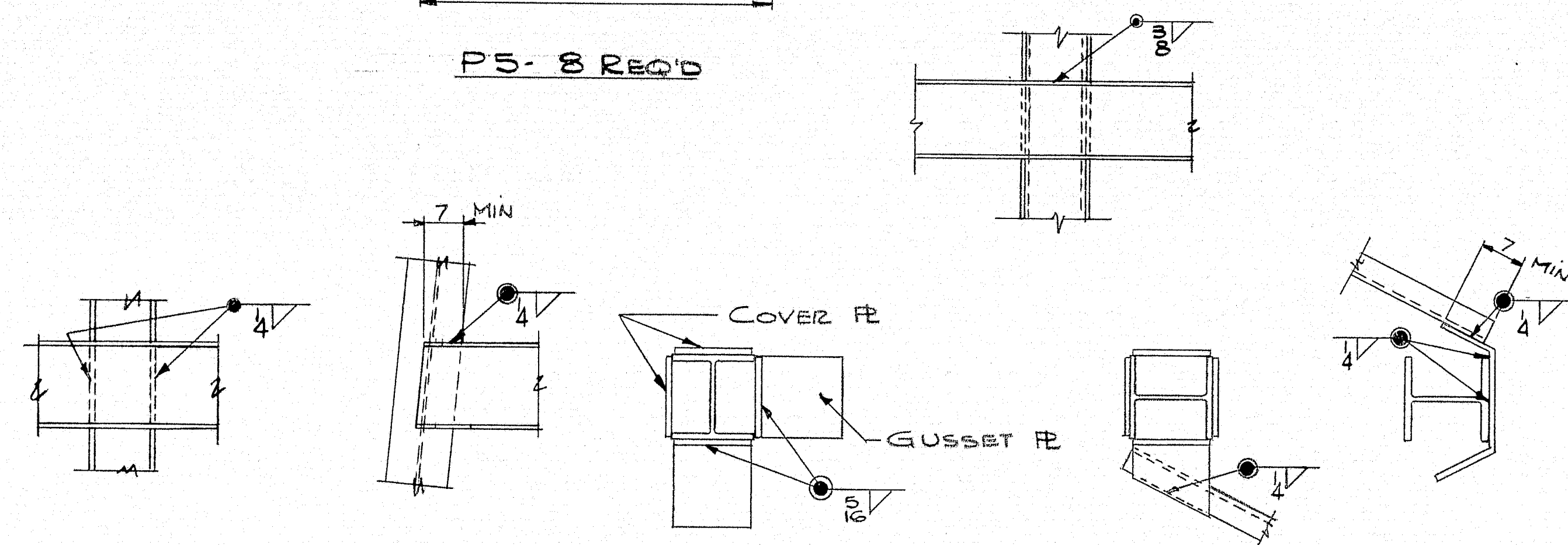
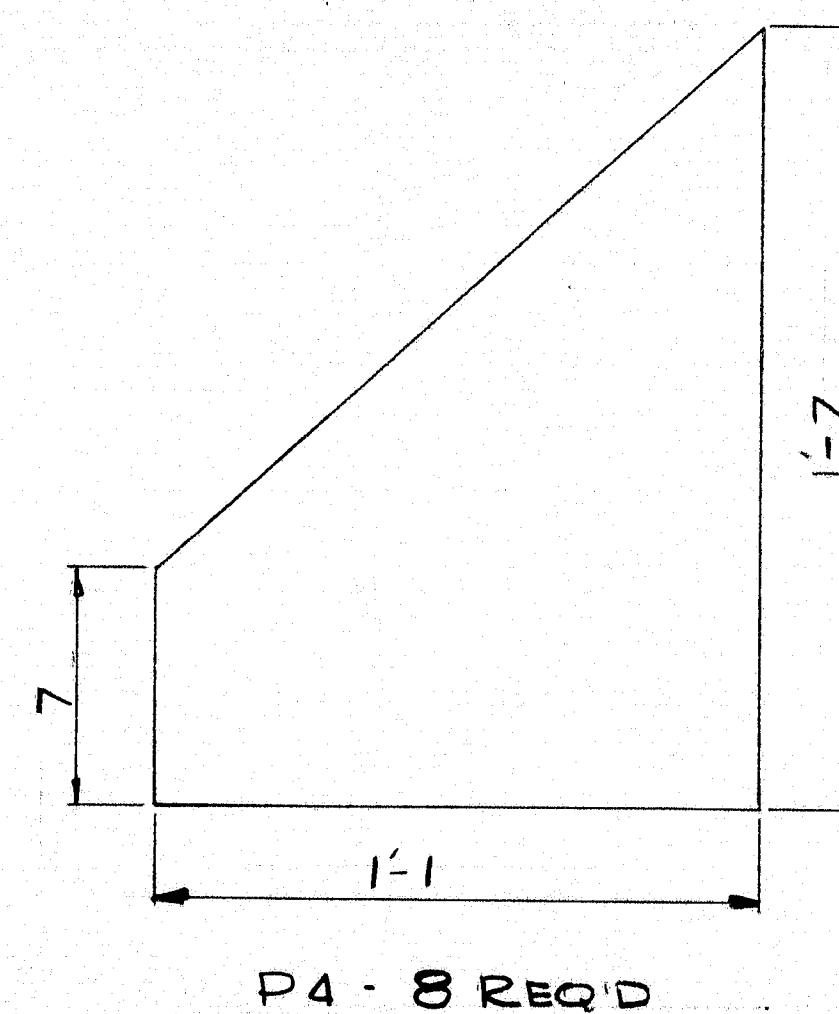
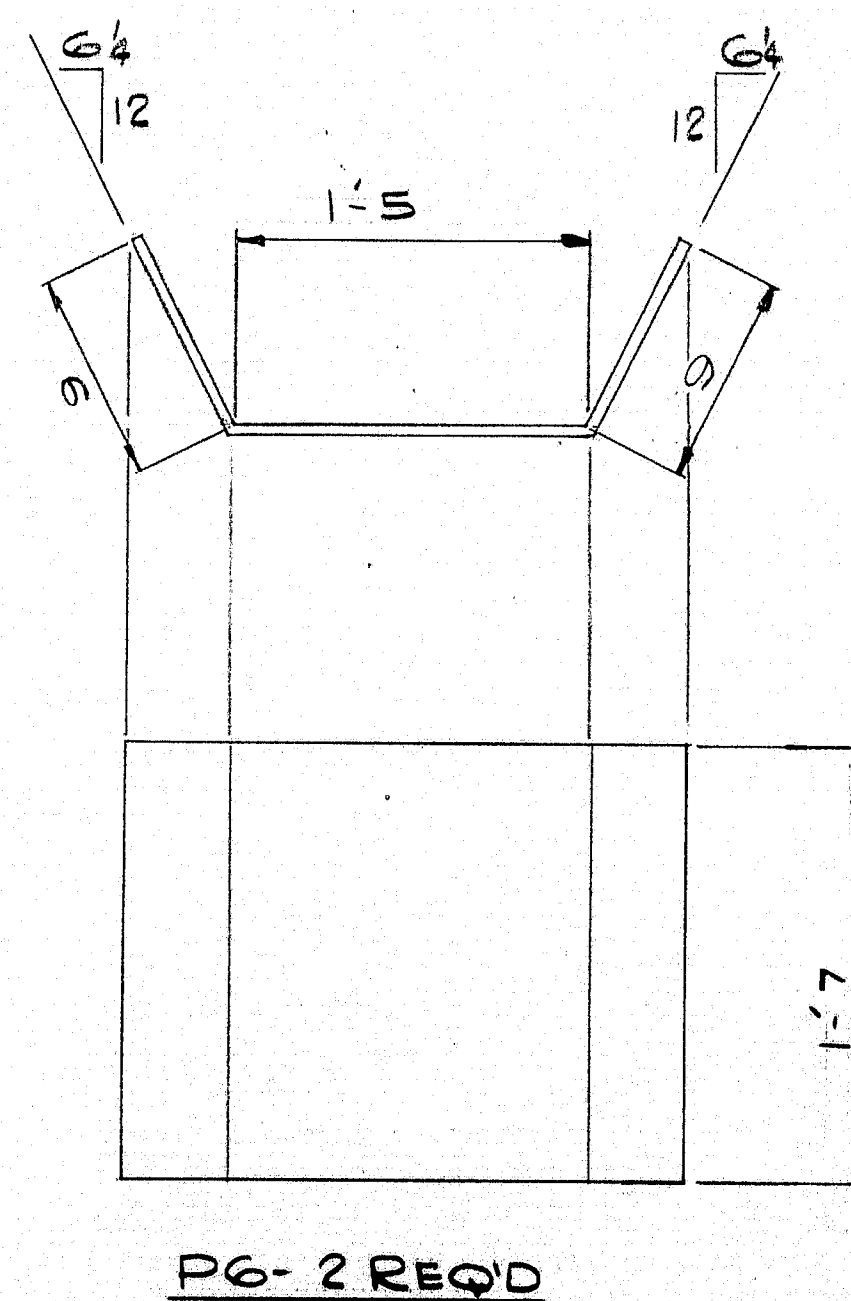
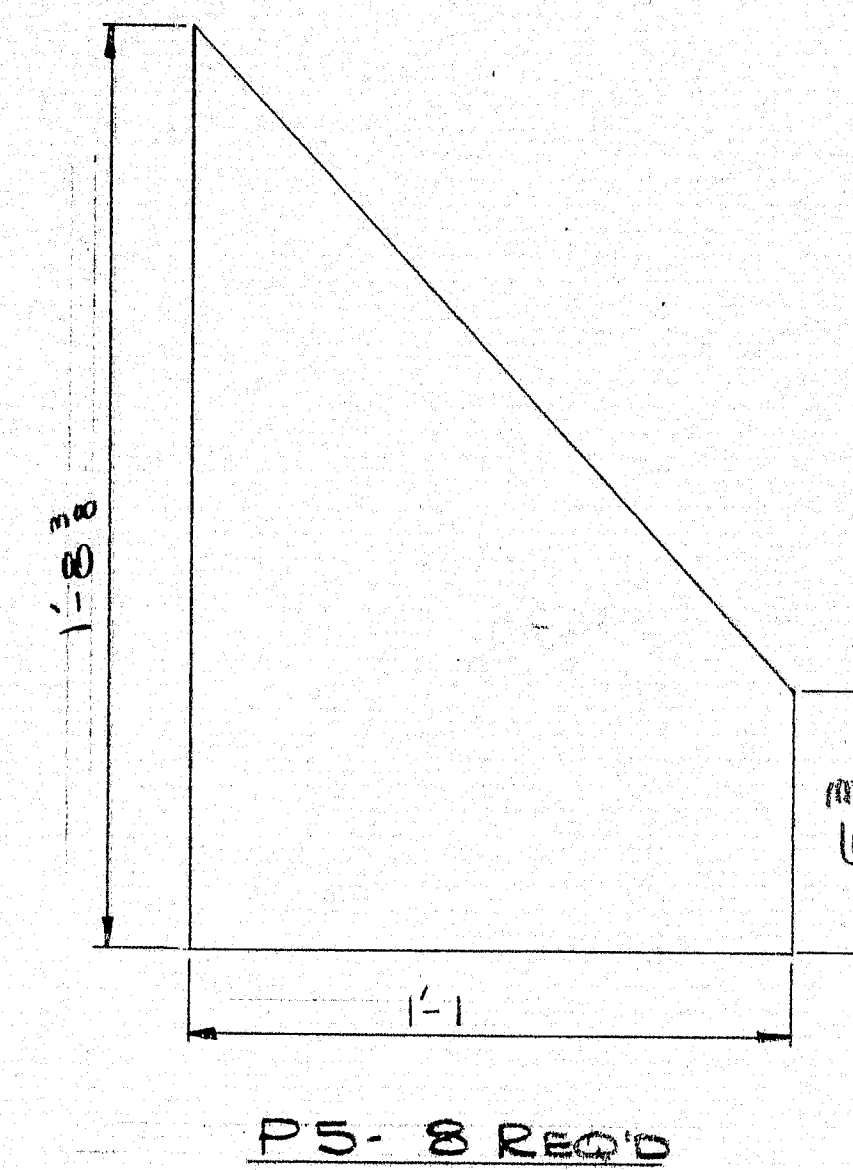
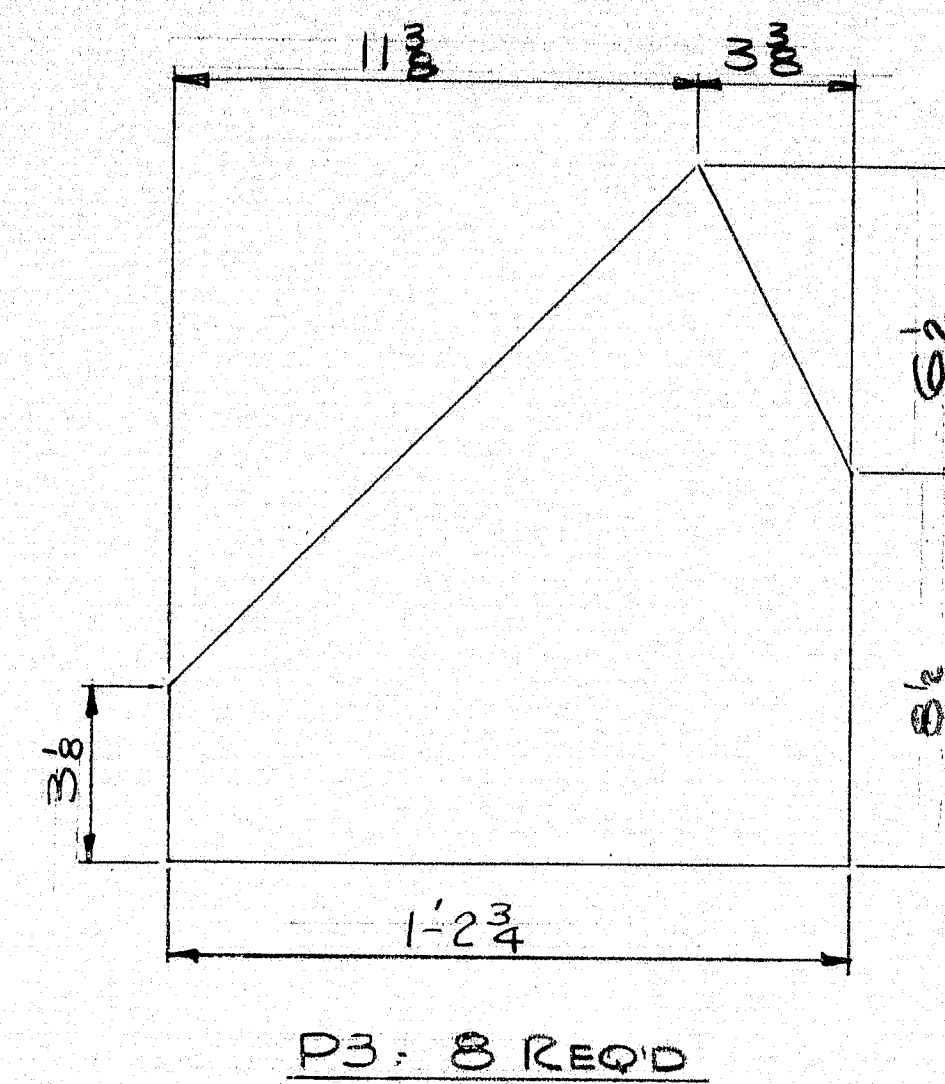
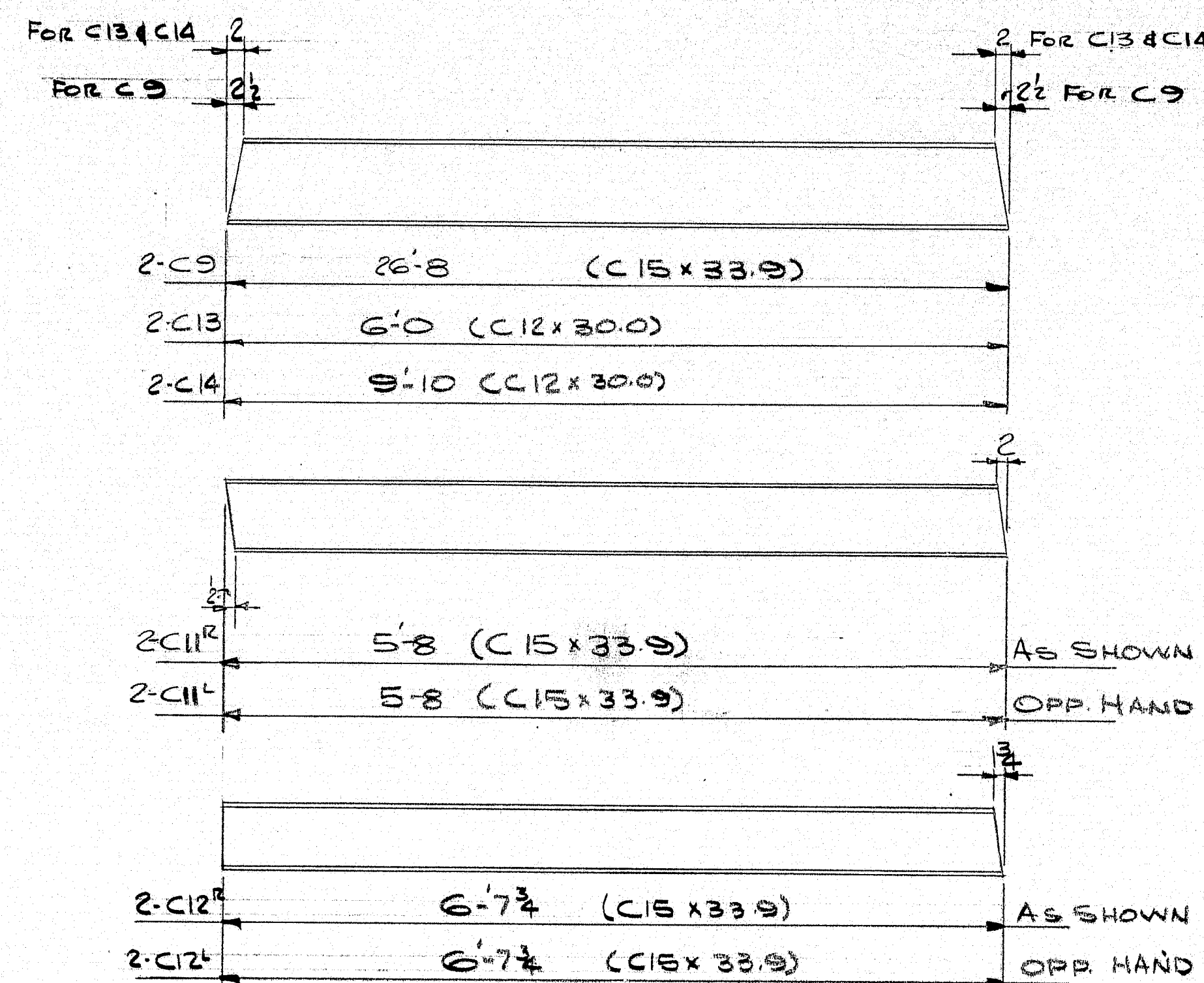


SECTION B-B
BRACING FOR
PIER NO. 3

WELDING DETAILS SEE DWG. M-4
CHANNEL & PLATE DETAILS
SEE DWG. M-4

SHIP		BILL OF MATERIAL				JOB NO. B70-437		DWG. NO. M-3	
MARK	NO.	MARK	SHAPE	LENGTH		WT.	ITEM NO.	REMARKS	
A13	4		L6x6x 3/8	28	10			No FAB	
A14	4		Do	12	0				
A15	2		Do	6	5				
A16	2		Do	15	6				
A17	2		Do	9	8				
A18	1		Do	13	0			No FAB	
C9	2		C15x33.9	26	8				
C10	2		Do	29	11			No FAB	
C11	4		Do	5	8			2R #2L	
C12	4		Do	6	7 1/2			Do	
C13	2		C12x30.0	6	0				
C14	2		Do	9	10				
P1	4		R 3/4 x 9	1	3				
P2	40		R 3/4 x 13	5	6				
P3	8		R 3/4 x 14 3/4	1	3				
P4	8		R 3/4 x 13	1	7				
P5	8		Do	1	8 1/2				
P6	2		R 3/4 x 19	2	11			BENT	
		</							

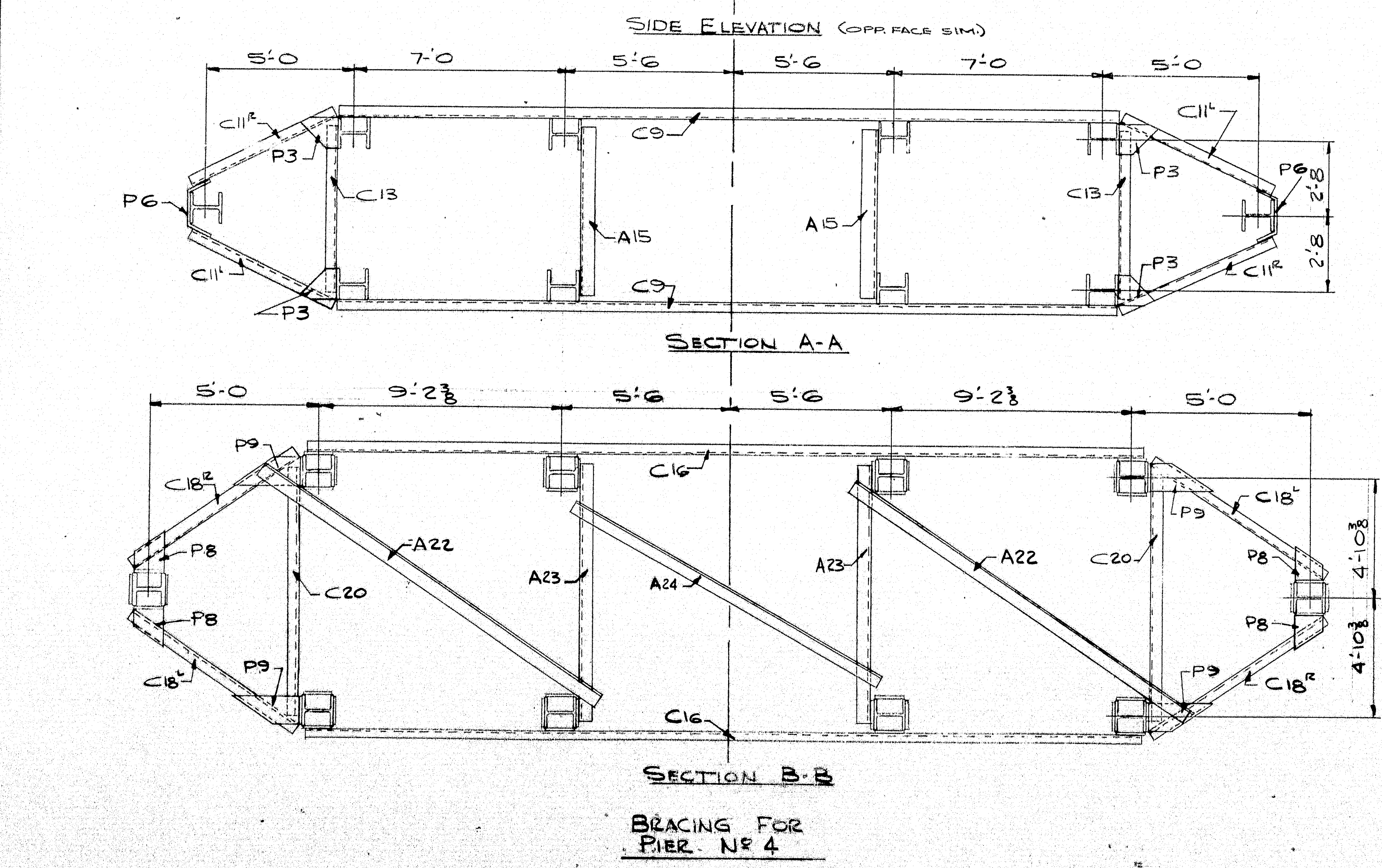
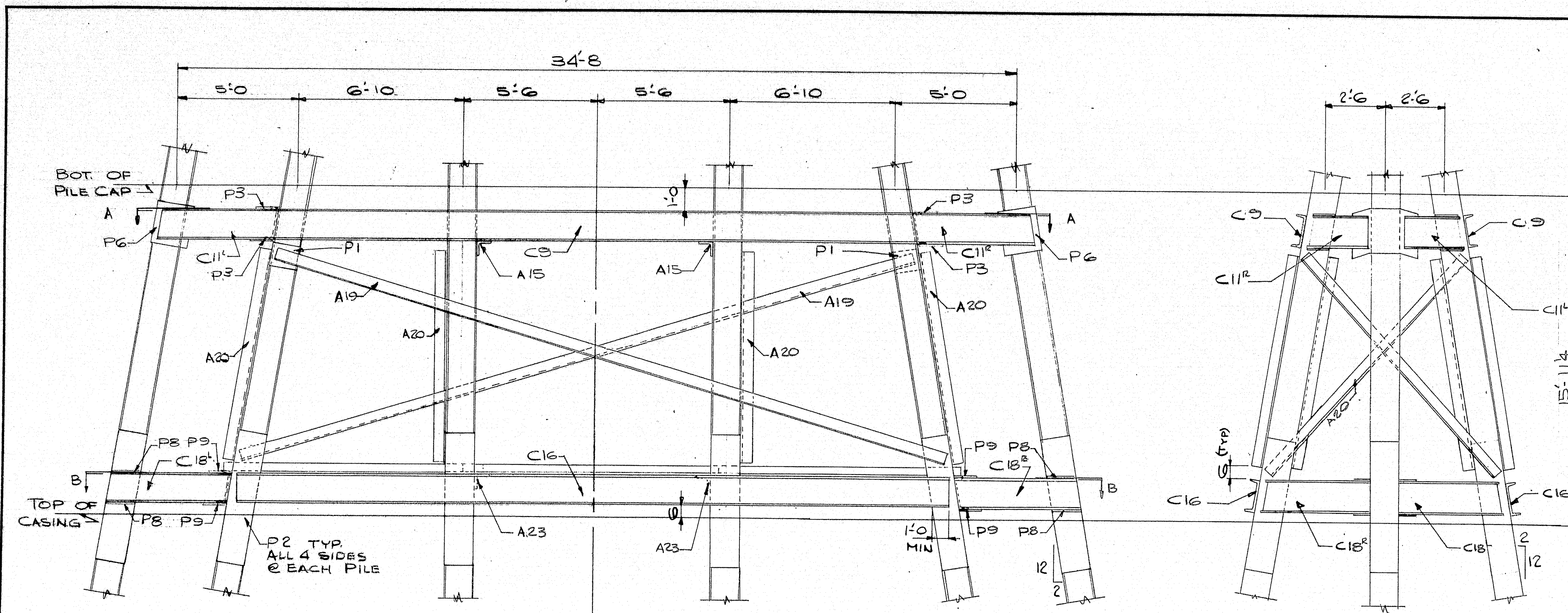
WANTED NOV. 27, 1970



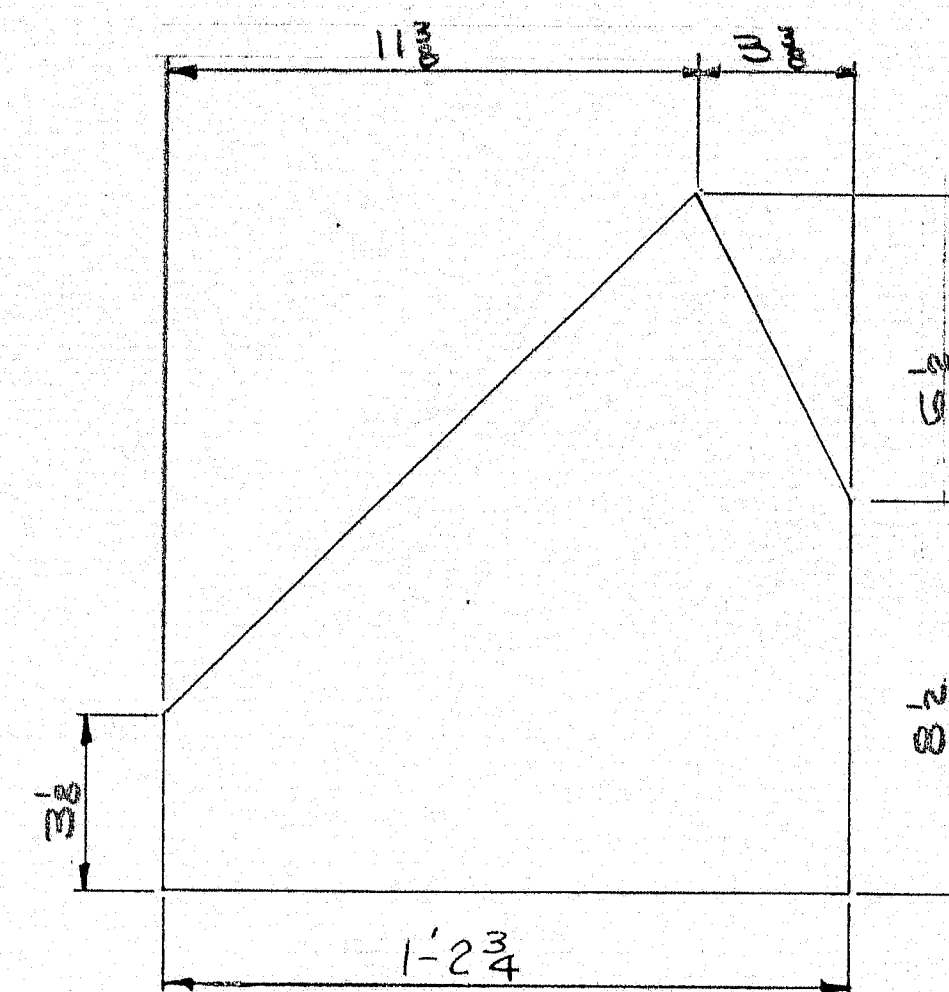
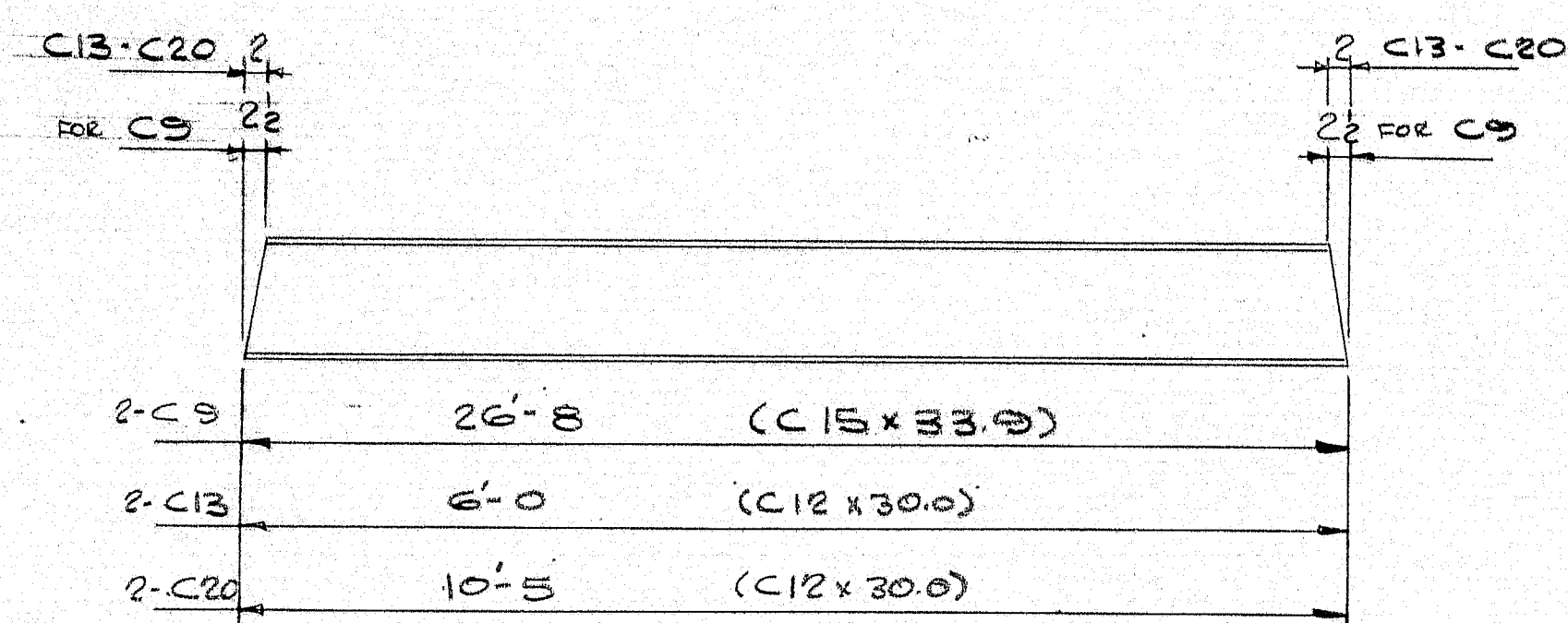
FOR BILL OF MATERIAL
SEE DWG NR M-3

CHANNEL & PLATE DETAILS			
WELDING DETAILS			
PRINT DIST.	2	11-11-70	FA
SERIES	8	11-25-70	BRN
STATE	2	11-25-70	STATE
CUST	2	11-25-70	CUST
JOB: MACHIAS RIVER BRIDGE			
EAST MACHIAS, MAINE			
CUSTOMER: NORMAN E. JACKSON			
DESIGNER: MAINE SHC BRIDGE DIV.			
REV.	CHECKED	11-10-70	JPE
DRAWN	11-3-70	RKC	
ORDER NO.	B70-437	JOB NO.	M-4
DRAWING NO.			

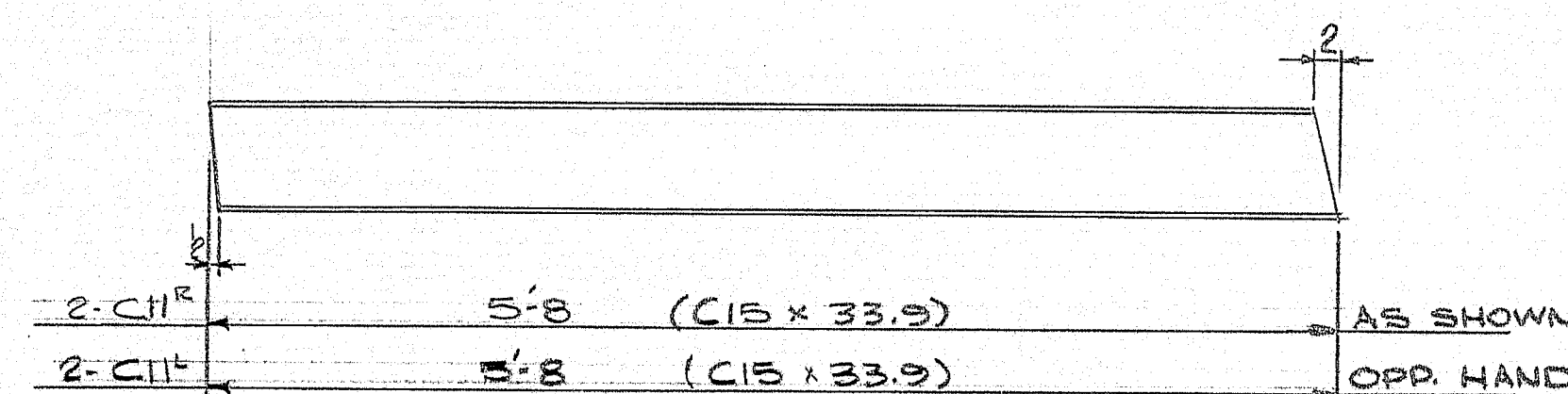
125-154



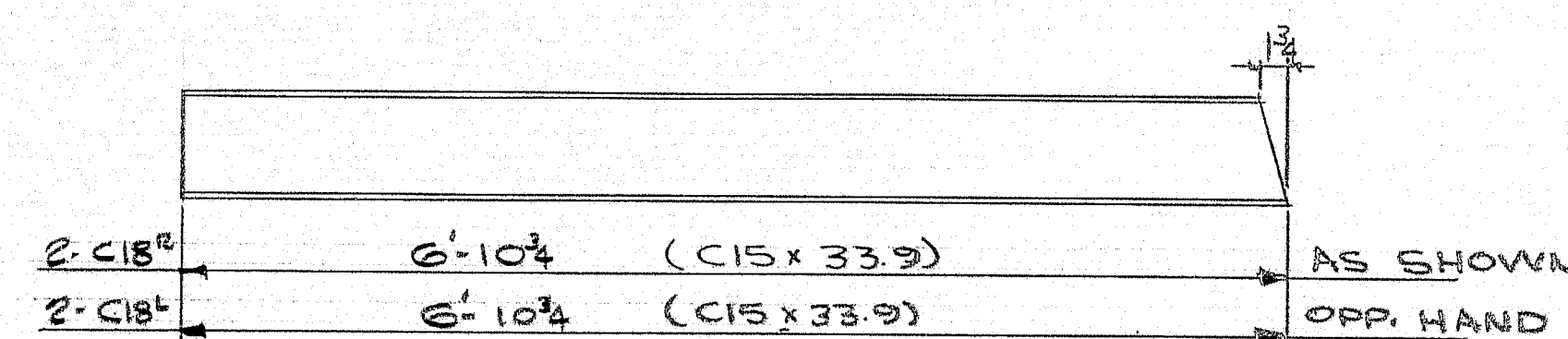
SHIP		BILL OF MATERIAL		JOB NO. B70-437		DWG. NO. M-5	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
A19	4		LG x 6 x 3/8	30' 0"			No FAB
A20	4		Do	14' 0"			
A15	2		Do	6' 5"			
A22	2		Do	15' 7"			
A23	2		Do	10' 3"			No FAB
A24	1		Do	12' 8"			
C9	2		C15 x 33.9	26' 8"			No FAB
C16	2		Do	30' 8"			
C11R	2		Do	5' 8"			
C11L	2		Do	5' 8"			
C13	2		C12 x 30.0	6' 0"			
C20	2		Do	1' 5"			
C18R	2		C15 x 33.9	6' 10 3/4"			
C18L	2		Do	6' 10 3/4"			
P1	4		R 3/4 x 9	1' 3"			
P2	40		R 3/4 x 13	5' 6"			
P3	8		R 3/4 x 14 3/4	1' 3"			
P8	8		R 3/4 x 13	1' 6 1/2"			
P9	8		Do	1' 7"			
P6	2		R 3/4 x 19	2' 11"			BEND
PROJ. NO. 2253 (DEP. NO. 2284 OR A-244)							
ITEM NO. 504.70							
STEEL: ASTM. A36							
WELDING ELECTRODE E70 16, 18, OR 28							
SHOP CONN: WELDED							
FIELD CONN: WELDED							
HOLES:							
PAINT: NONE							
SPECIAL CLEANING: BLAST CLEAN							
APPROVED:							
PIER NO. 4 BRACING							
PRINT DIST.							
2	12-31-70	FA	Bancroft & Martin Inc. South Portland, Maine 04106				
2	2-1-71	STATE					
2	2-1-71	CUST					
1	2-1-71	DESIGNER					
			JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE				
			CUSTOMER: NORMAN E. JACKSON				
			DESIGNER: MAINE SHC BRIDGE DIV.				
			ORDER NO. JOB NO. DRAWING NO.				
CHECKED 12-31-70 JPE			B70-437 M-5				
DRAWN 11-2-70 RRC							



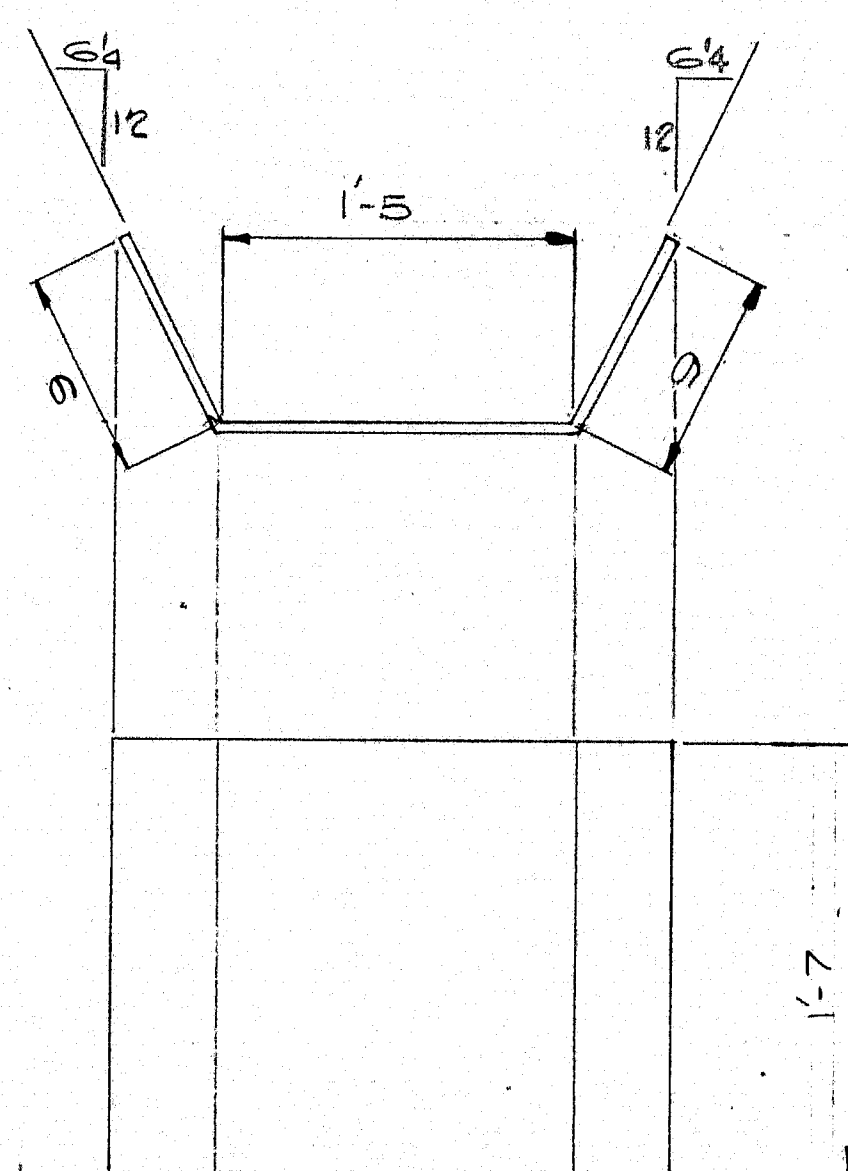
P3- 8 REQ'D



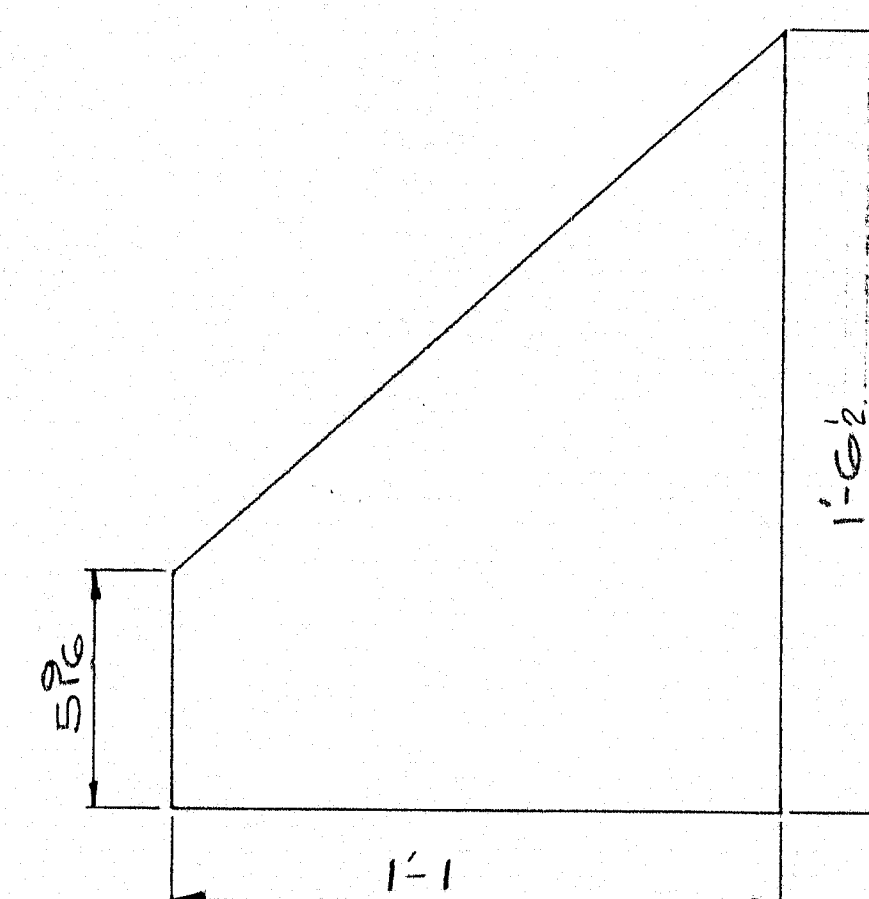
AS SHOWN
OPP. HAND



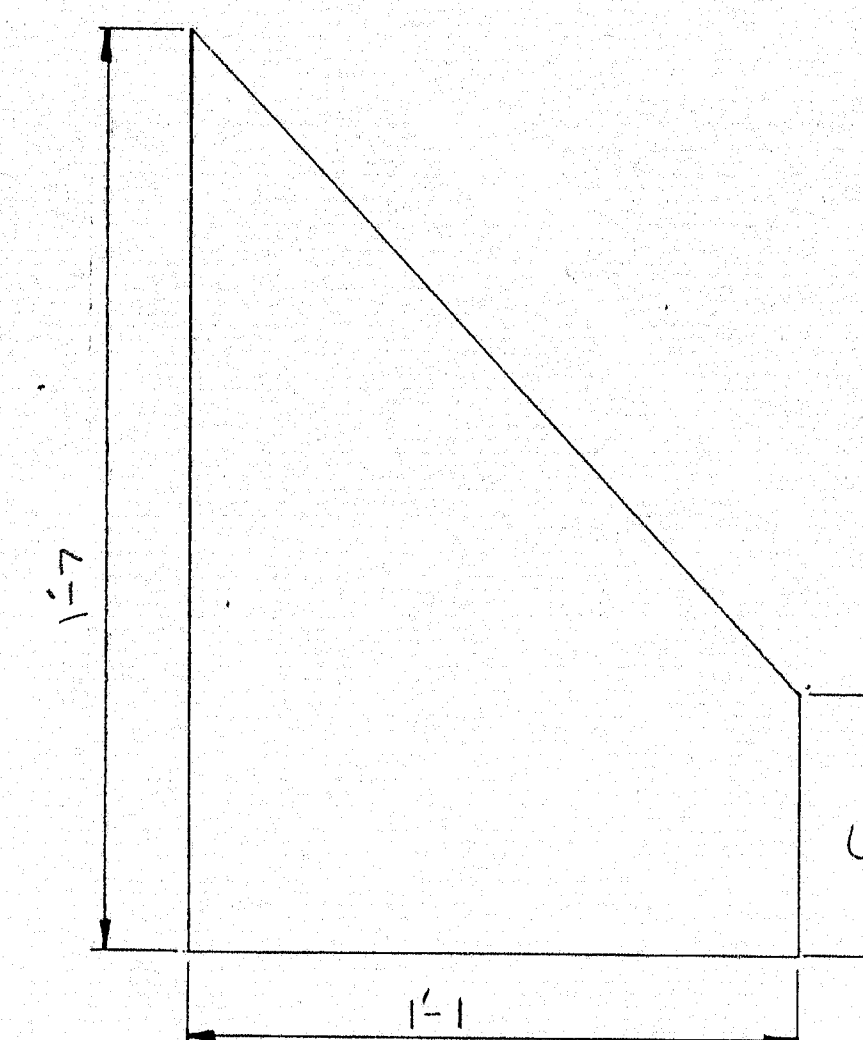
AS SHOWN
OPP. HAND



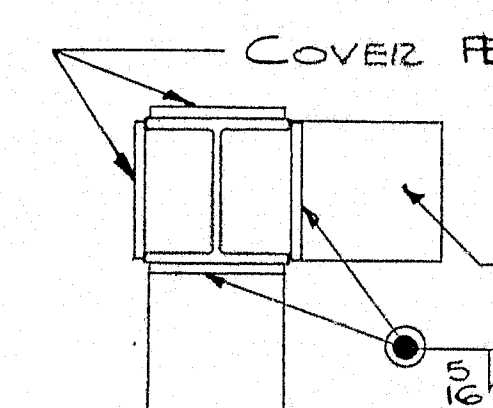
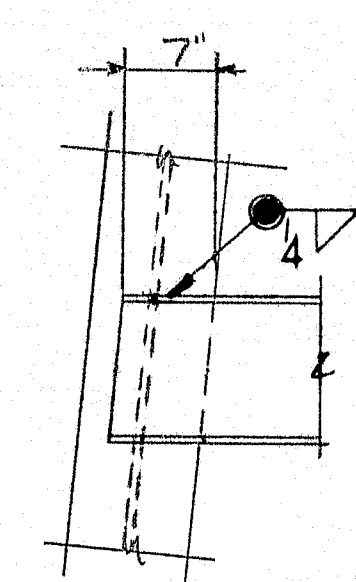
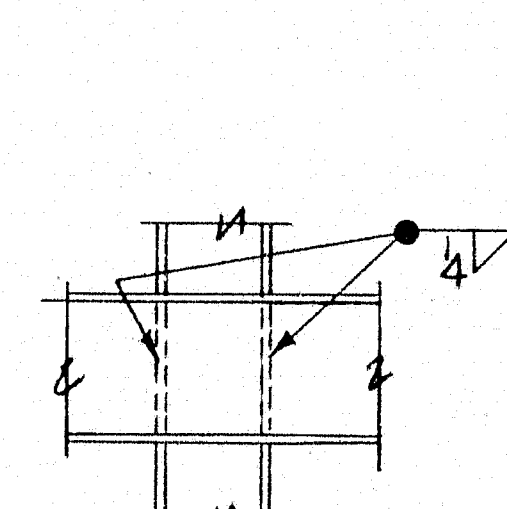
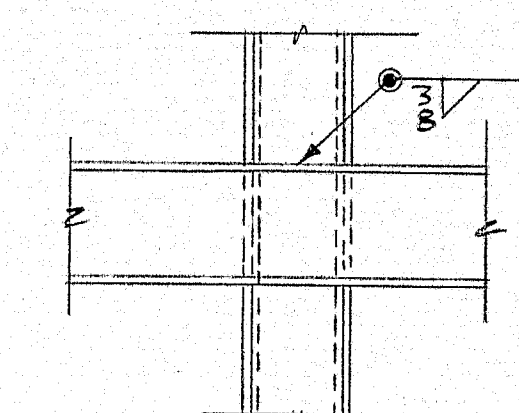
P6- 2 REQ'D



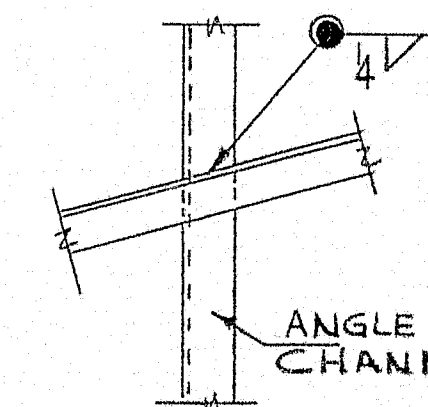
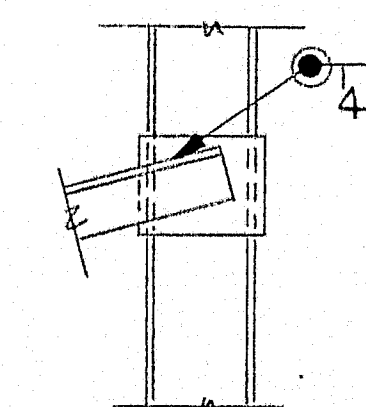
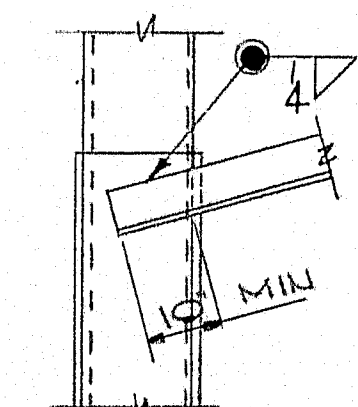
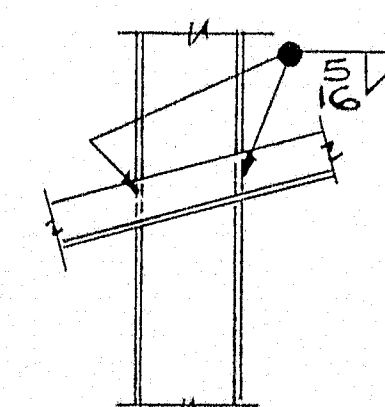
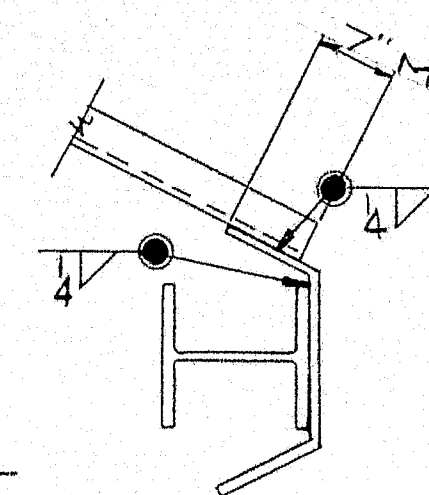
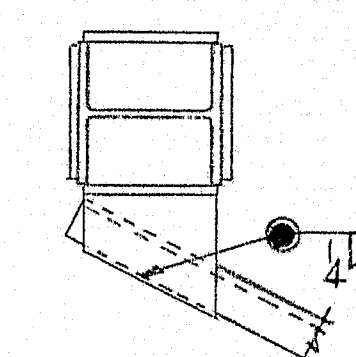
P8- 8 REQ'D



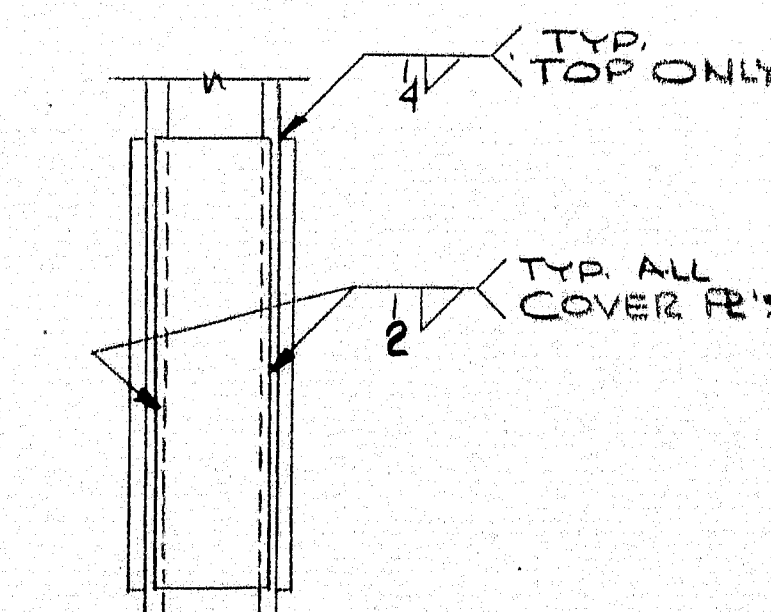
P9- 8 REQ'D



CHANNEL WELDS



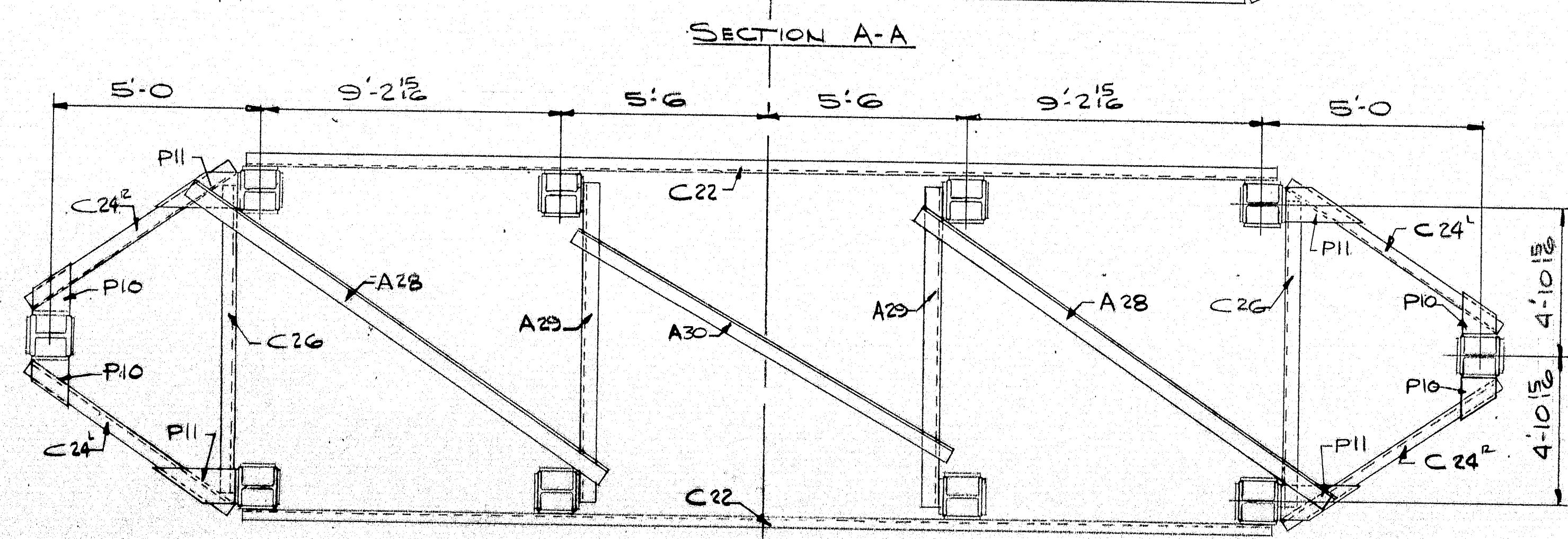
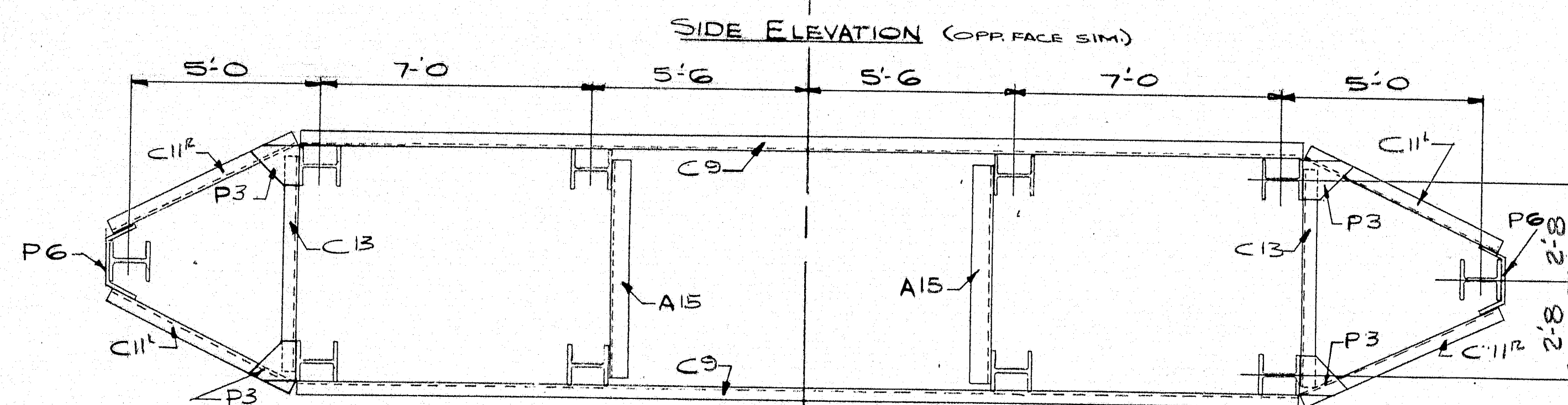
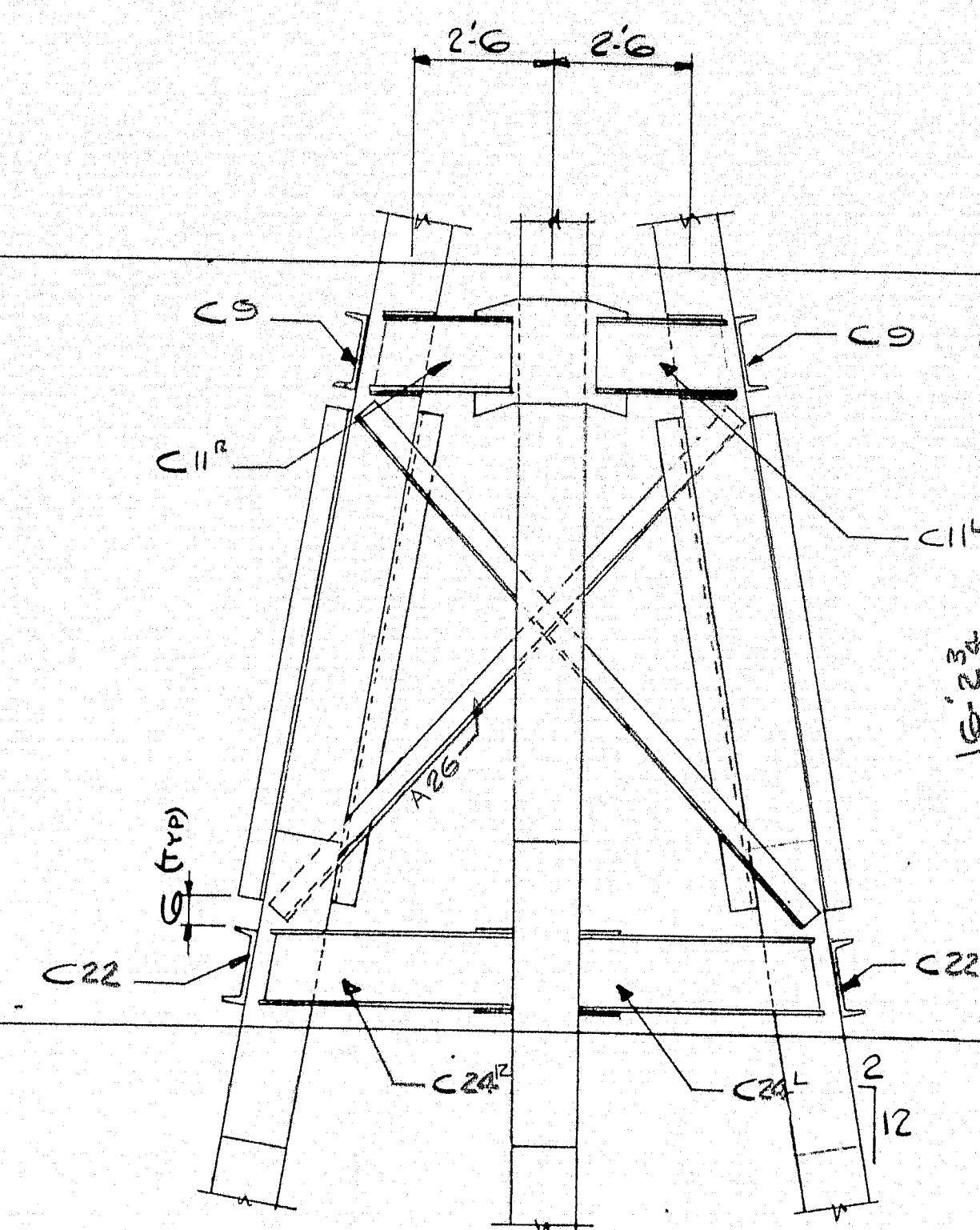
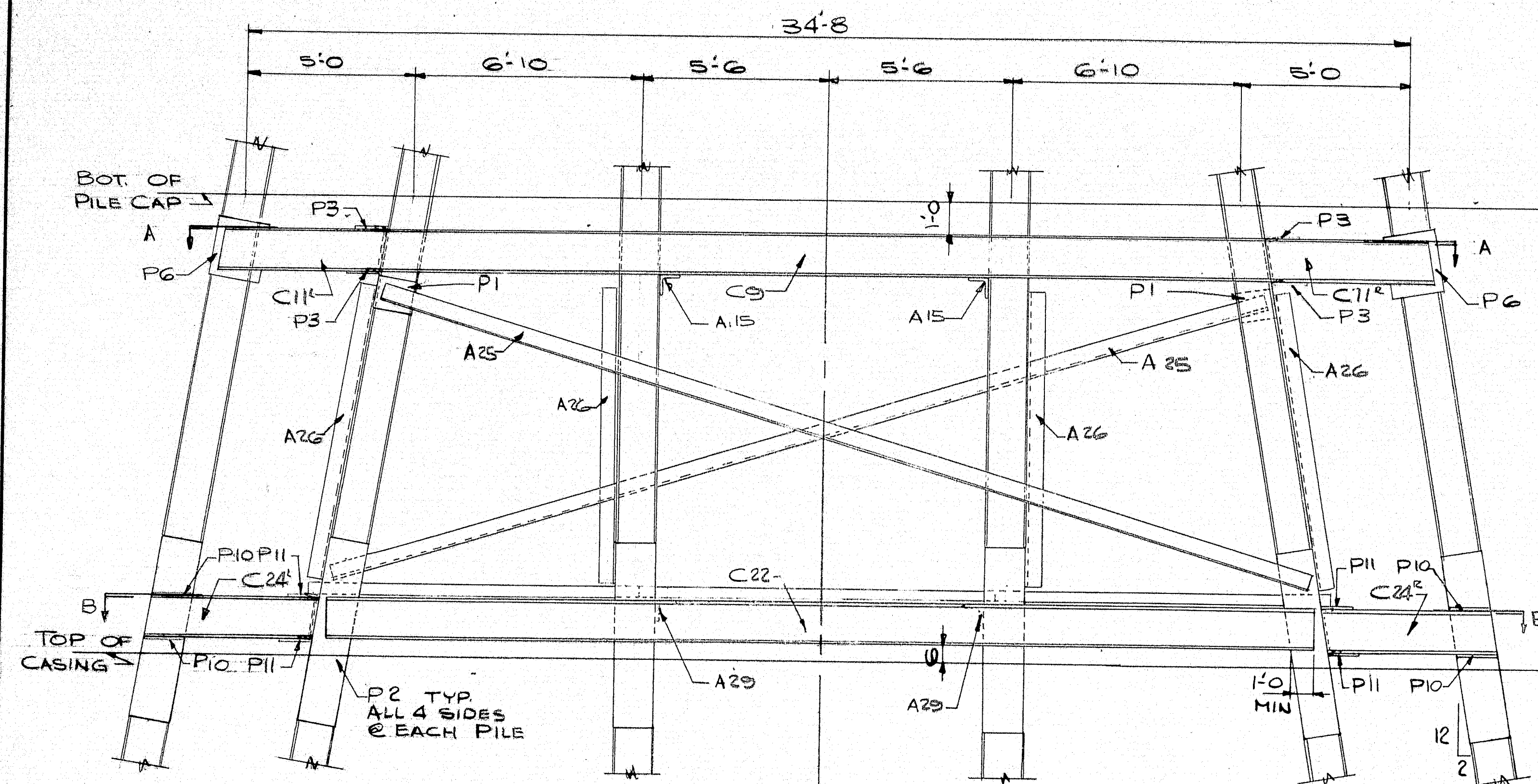
ANGLE WELDS



COVER PLATE WELDS

FOR BILL OF MATERIAL
SEE DWG NO M-5

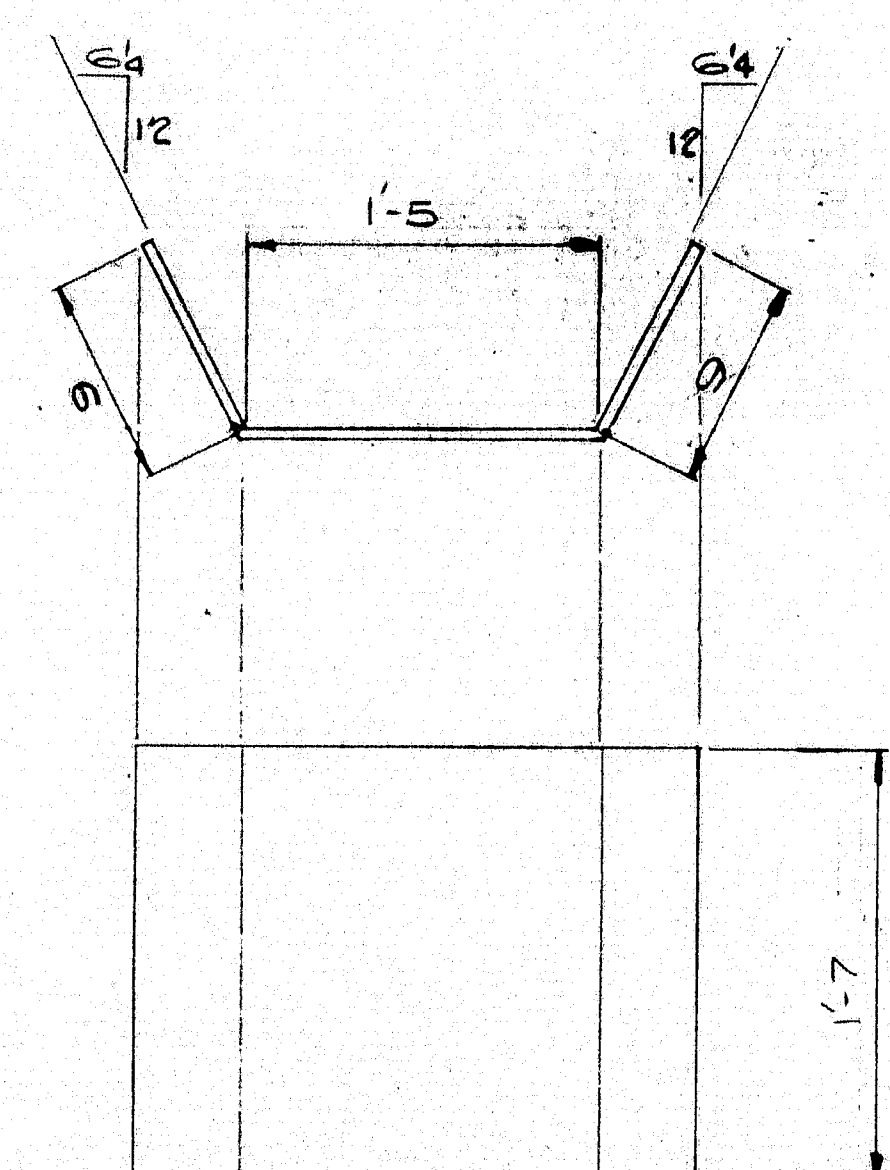
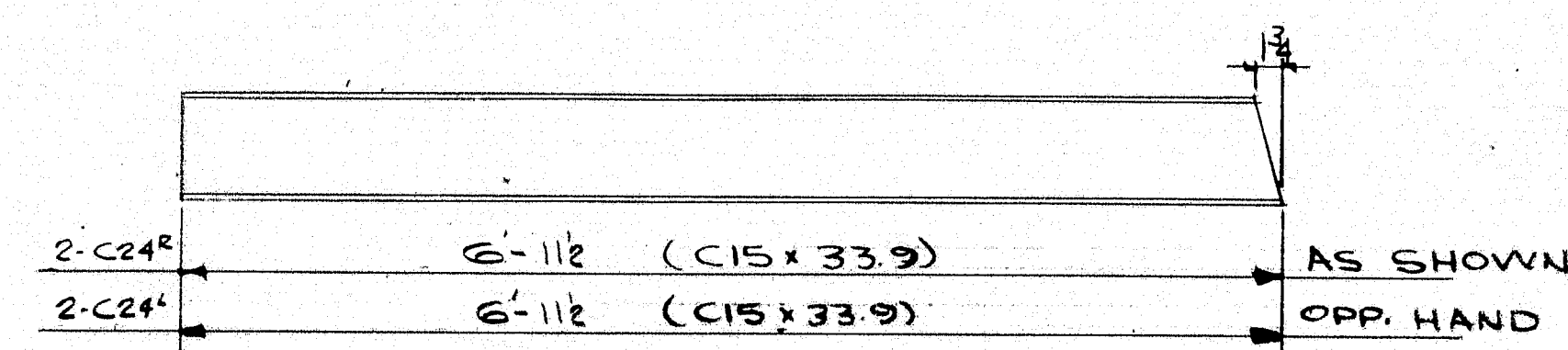
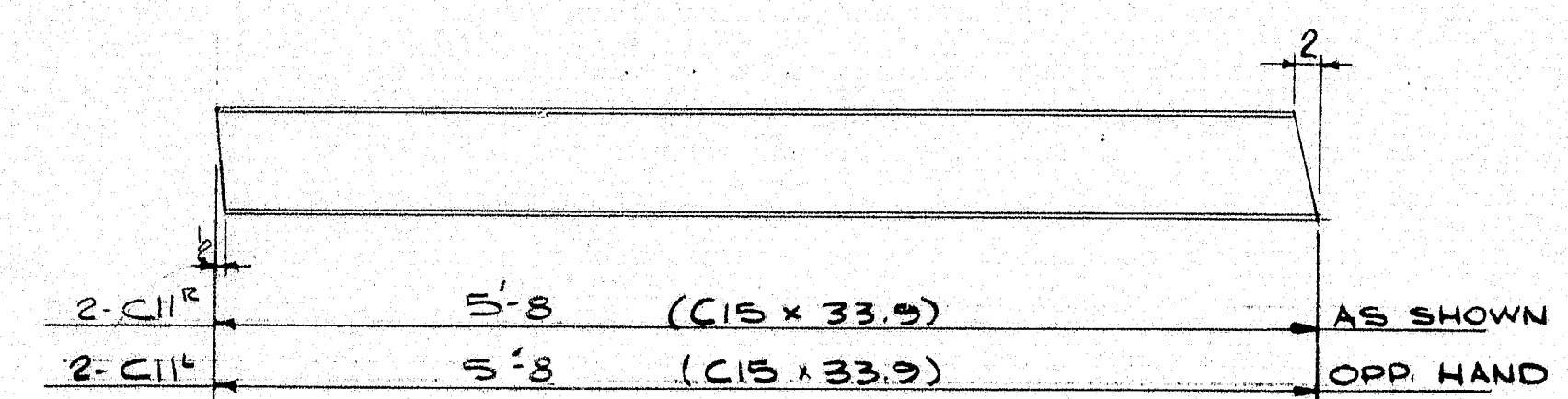
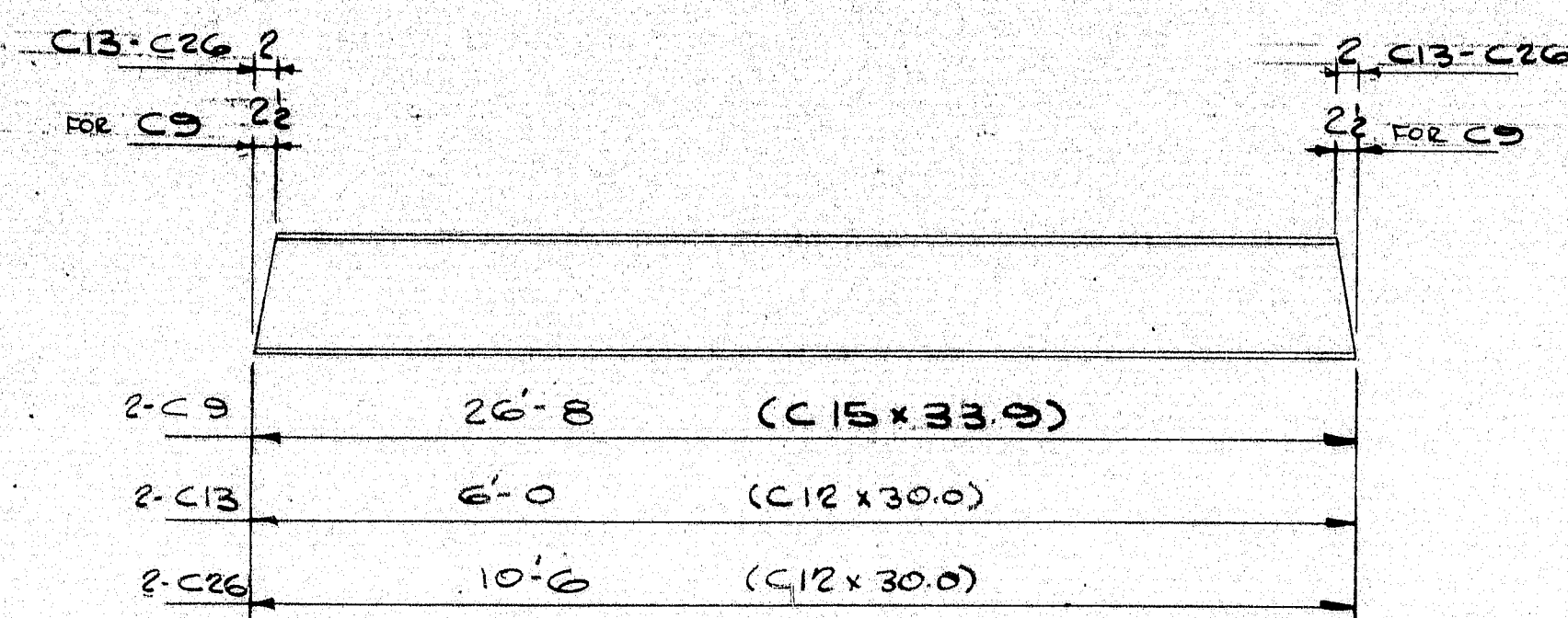
CHANNEL & PLATE DETAILS			
WELDING DETAILS			
PRINT DIST.	2	12-31-70	FA
2	2-1-71	STATE	
2	2-1-71	CUST	
2	2-1-71	REVISION	
MACHIAS RIVER BRIDGE			
EAST MACHIAS, MAINE			
CUSTOMER: NORMAN E. JACKSON			
DESIGNER: MAINE SHC BRIDGE DIV.			
REV.	CHECKED	12-31-70	JDF
DRAWN	11-3-70	RKC	
ORDER NO.		JOB NO.	
B70-437		M6	



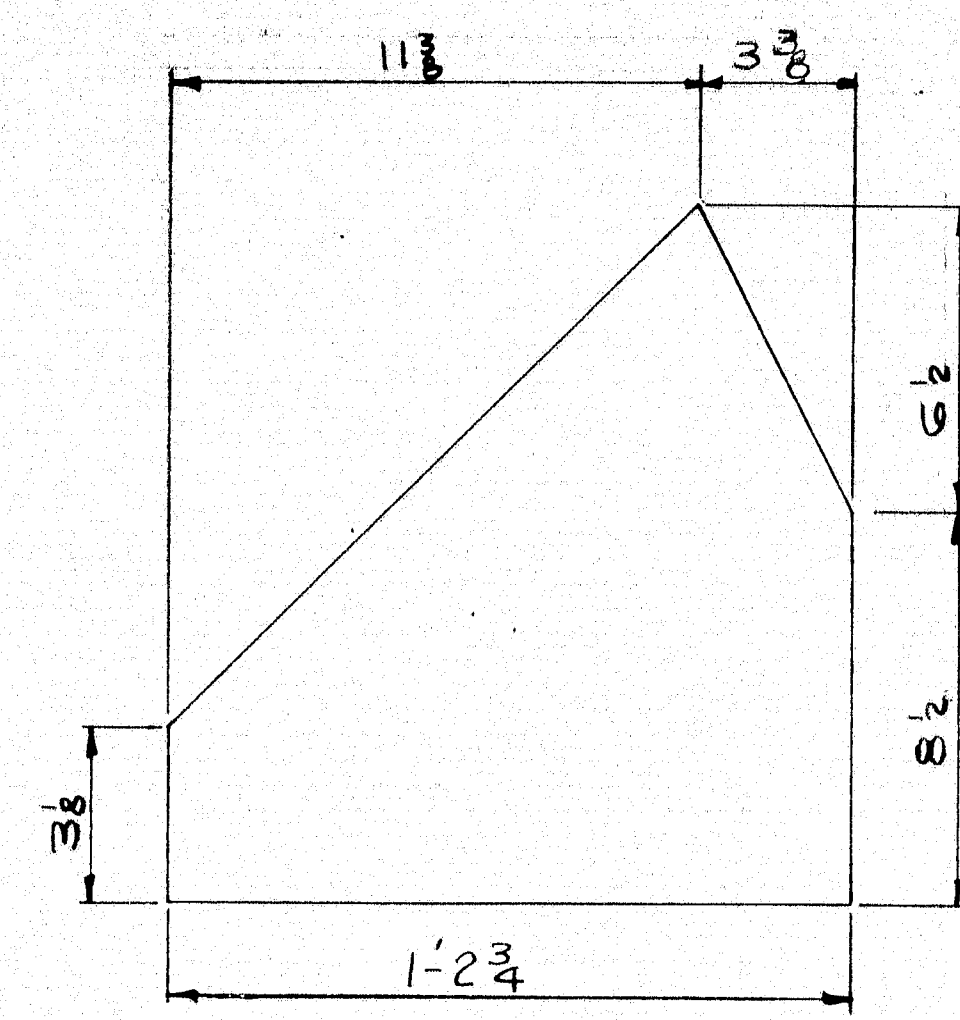
BRACING FOR
PIER NO. 5

WELDING DETAILS SEE DWG M-8
CHANNEL & PLATE DETAILS
SEE DWG M-8

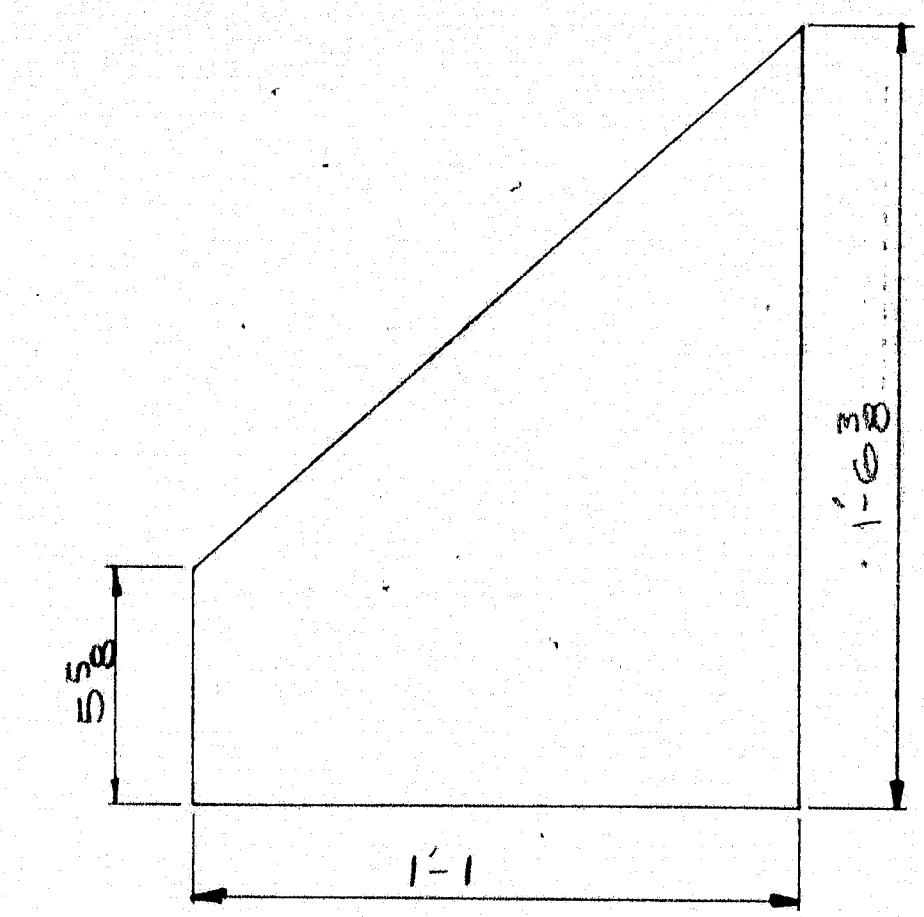
SHIP		BILL OF MATERIAL		JOB NO. B70-437		DWG. NO. M-7	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
A25	4		LG x 6 x 5/8	30	2		No FAB.
A26	4		Do	14	3		
A15	2		Do	6	5		
A28	2		Do	15	8		
A29	2		Do	10	4		
A30	1		Do	12	9		No FAB.
C9	2		C15 x 33.9	26	8		
C22	2		Do	30	9		No FAB.
C11	2		Do	5	8		
C13	2		C12 x 30.0	6	0		
C26	2		Do	10	6		
C24	2		C15 x 33.9	6	11 1/2		
C24	2		Do	6	11 1/2		
P1	4		R 3/4 x 9	1	3		
P2	40		R 3/4 x 13	5	6		
P3	8		R 3/4 x 14 1/2	1	3		
P10	8		R 3/4 x 13	1	6 1/2		
P11	8		Do	1	7		
P6	2		R 3/4 x 19	2	11		BEND
PROJ. NO. 2255 (DEP. NO. 284 DR. A-244)							
ITEM NO. 50476							
STEEL: ASTM. A36							
WELDING ELECTRODE E70 16, 18, OR 28							
SHOP CONN.:							
FIELD CONN. WELDED							
HOLES:							
PAINT: NONE							
SPECIAL CLEANING: BLAST CLEAN							
APPROVED:							
PIER NO. 5 BRACING							
PRINT DIST.				Bancroft & Martin Inc. South Portland, Maine 04106			
2	12-31-70	FA	STATE				
6	2-1-71	CUST	STATE				
2	2-1-71	CUST	STATE				
1 SEPA 2-1-71				JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE			
				CUSTOMER: NORMAN E. JACKSON			
				DESIGNER: MAINE SHC BRIDGE DIV.			
				ORDER NO. JOB NO. DRAWING NO.			
REV. 12-31-70 JPE				B70-437 M-7			
CHECKED 12-31-70 JPE							
DRAWN 11-2-70 TRK							



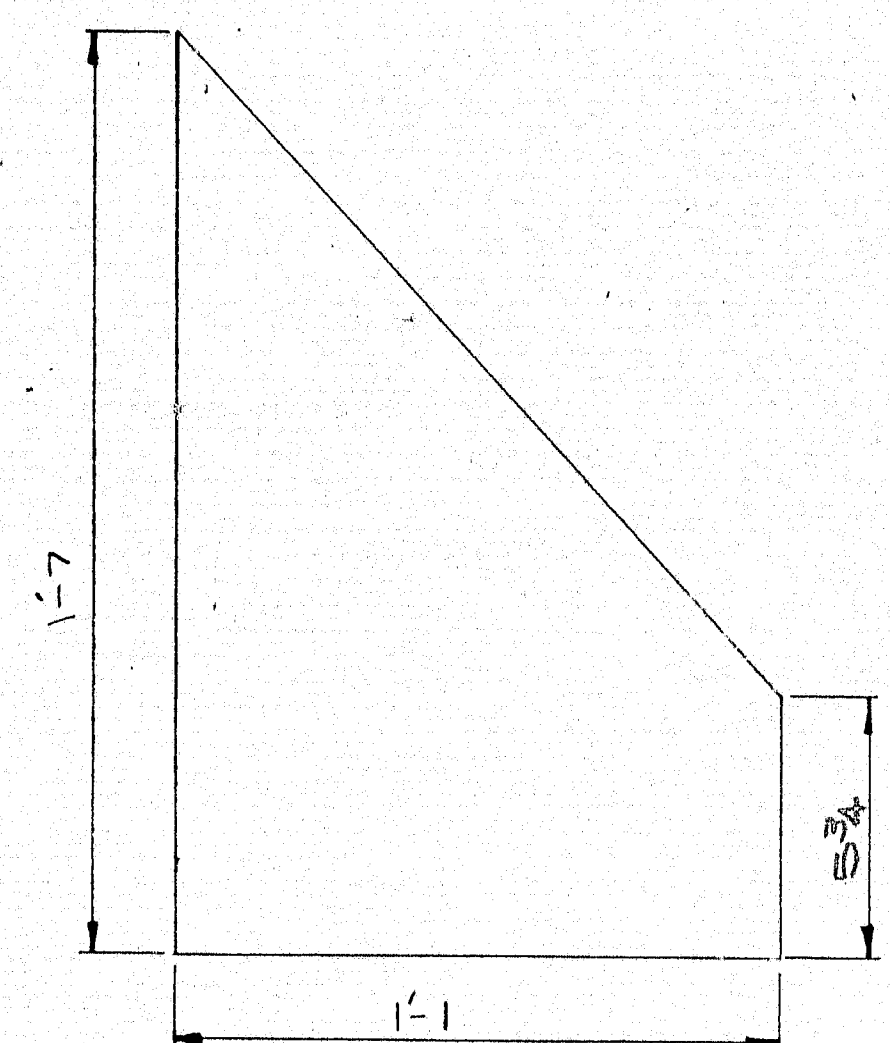
P6- 2 REQ'D



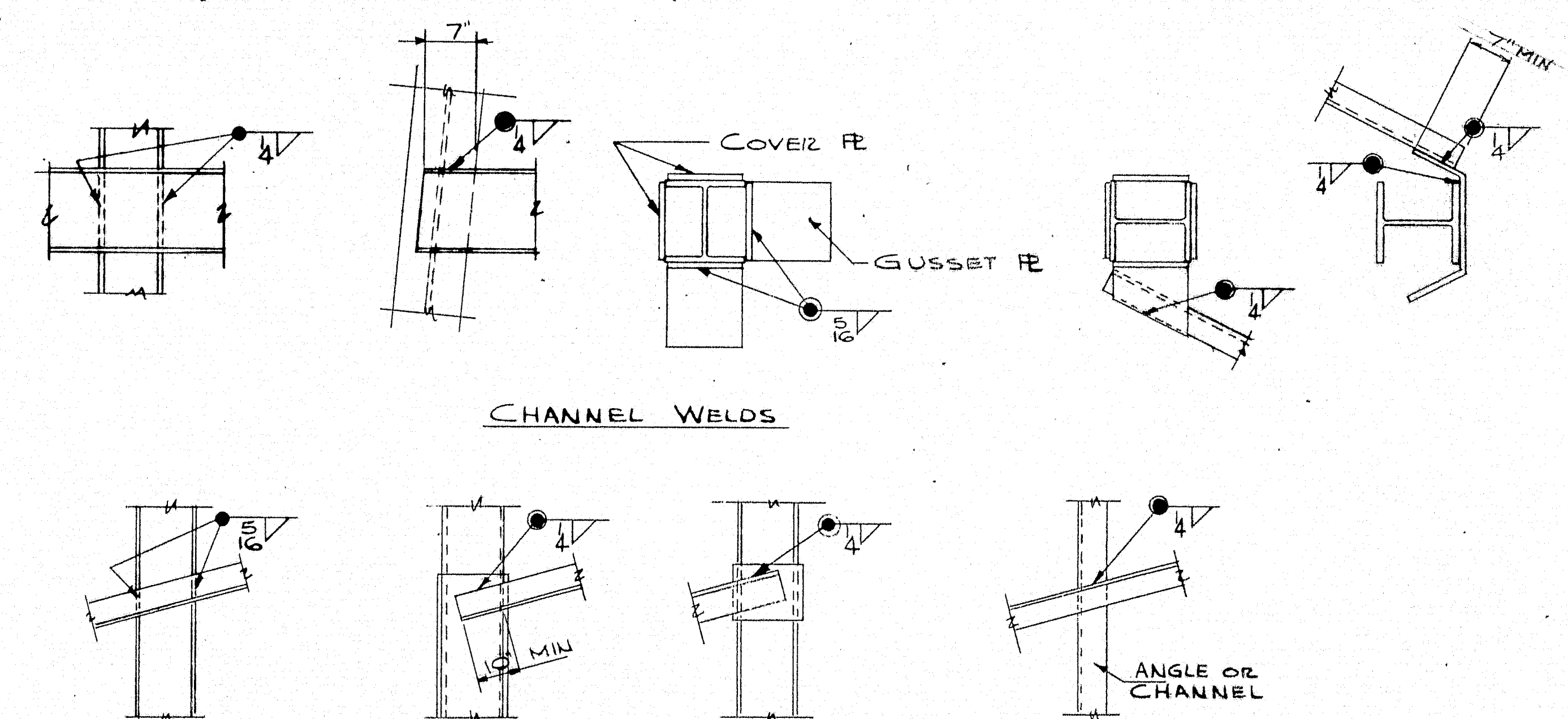
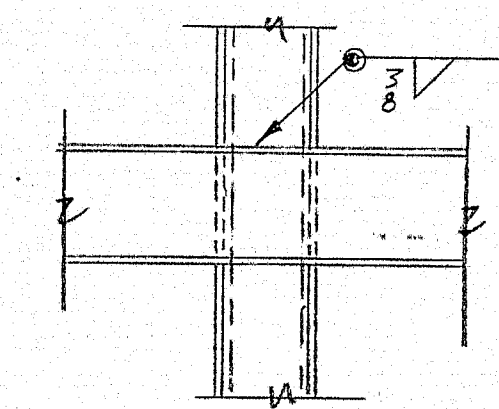
P3- 8 REQ'D



P10- 8 REQ'D

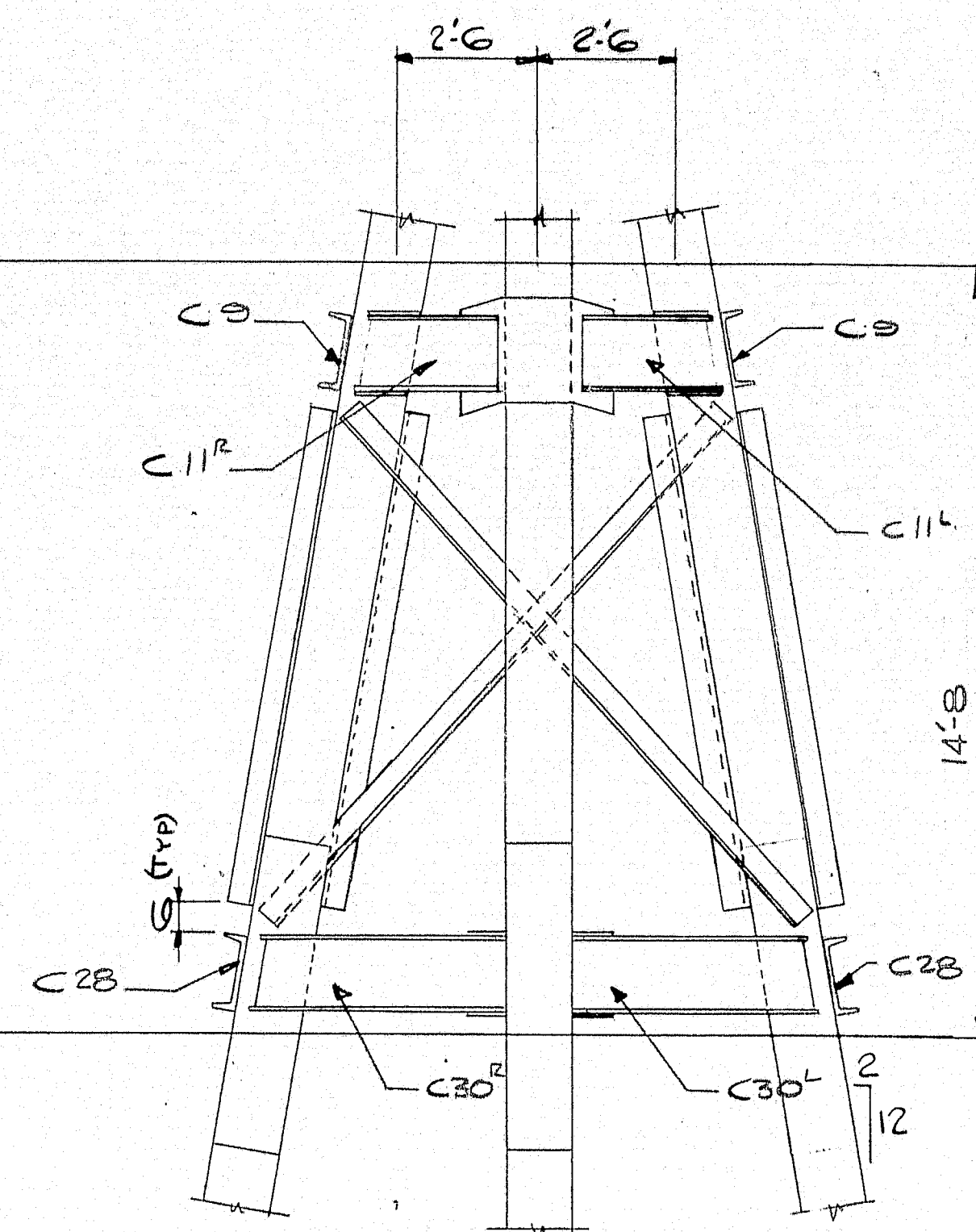


P9- 8 REQ'D

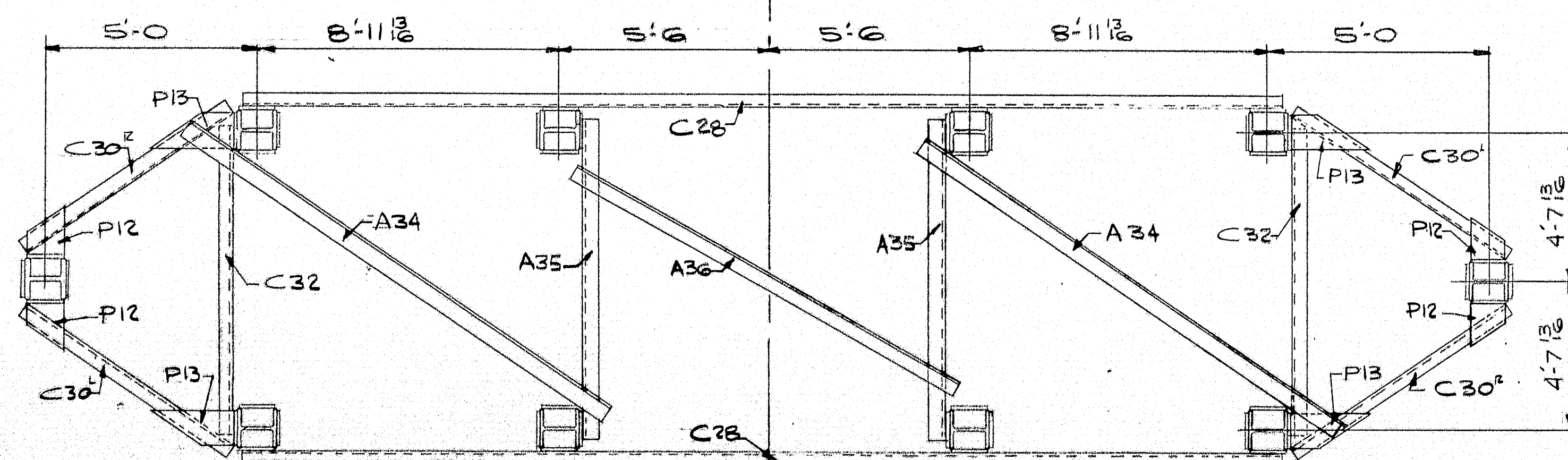


FOR BILL OF MATERIAL
SEE DWG NO M-7

CHANNEL & PLATE DETAILS			
WELDING DETAILS			
REV.	PRINT DIST.	<i>Bancroft & Martin Inc.</i> <i>South Portland, Maine 04106</i> JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE CUSTOMER: NORMAN E. JACKSON DESIGNER: MAINE SHC BRIDGE DIV. ORDER NO. JOB NO. DRAWING NO. 870-437 M8	
2	12-31-70		
5	2-1-71		
2	2-1-71		
1	2-1-71		
CHECKED	12-31-70	JPF	
DRAWN	11-3-70	RKC	



END ELEVATION (OPP. FACE SIM)

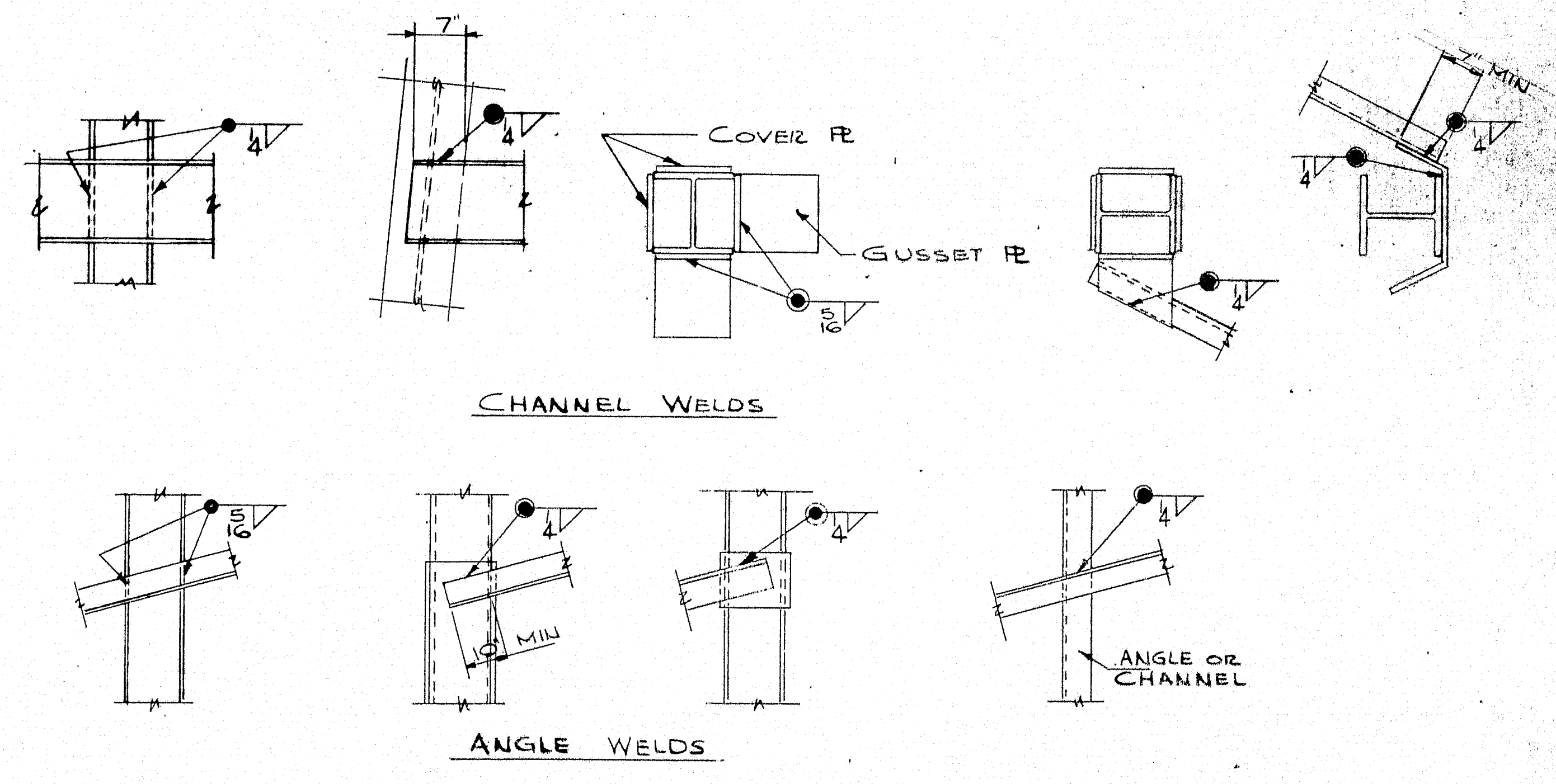
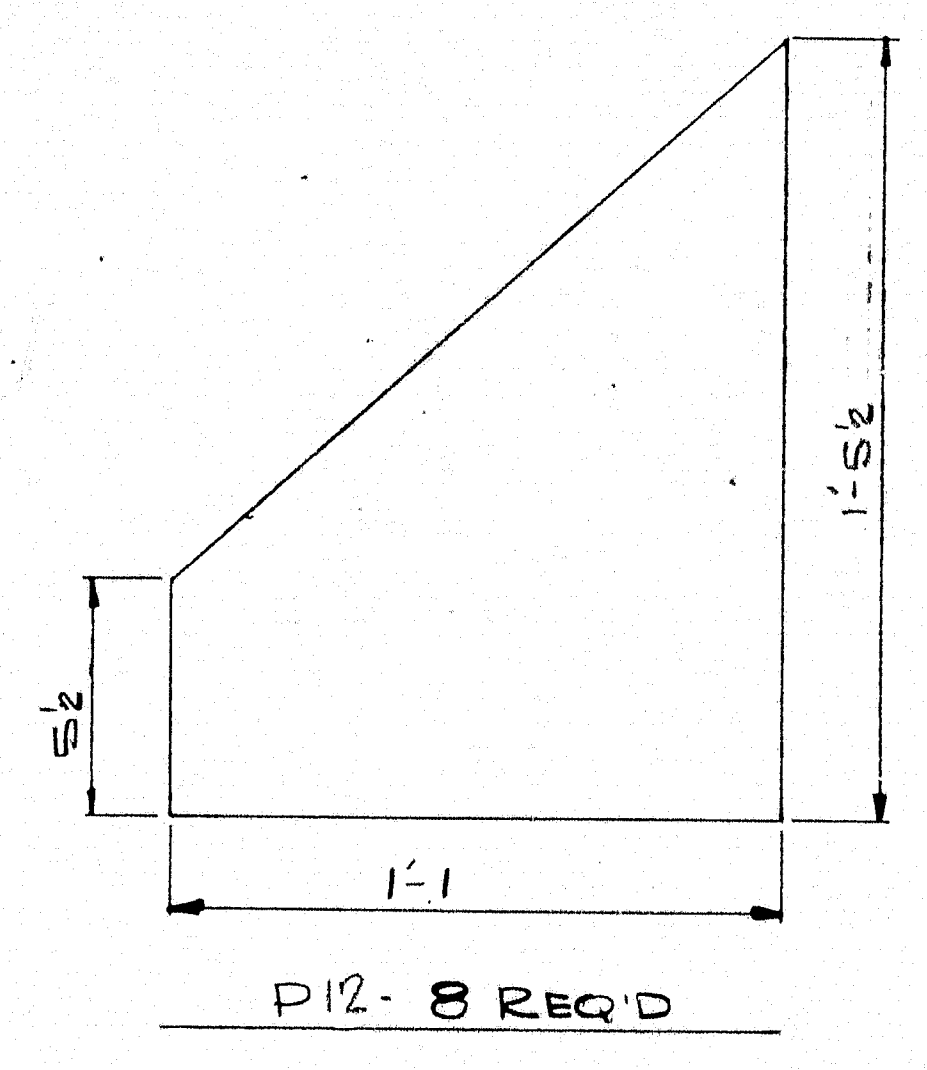
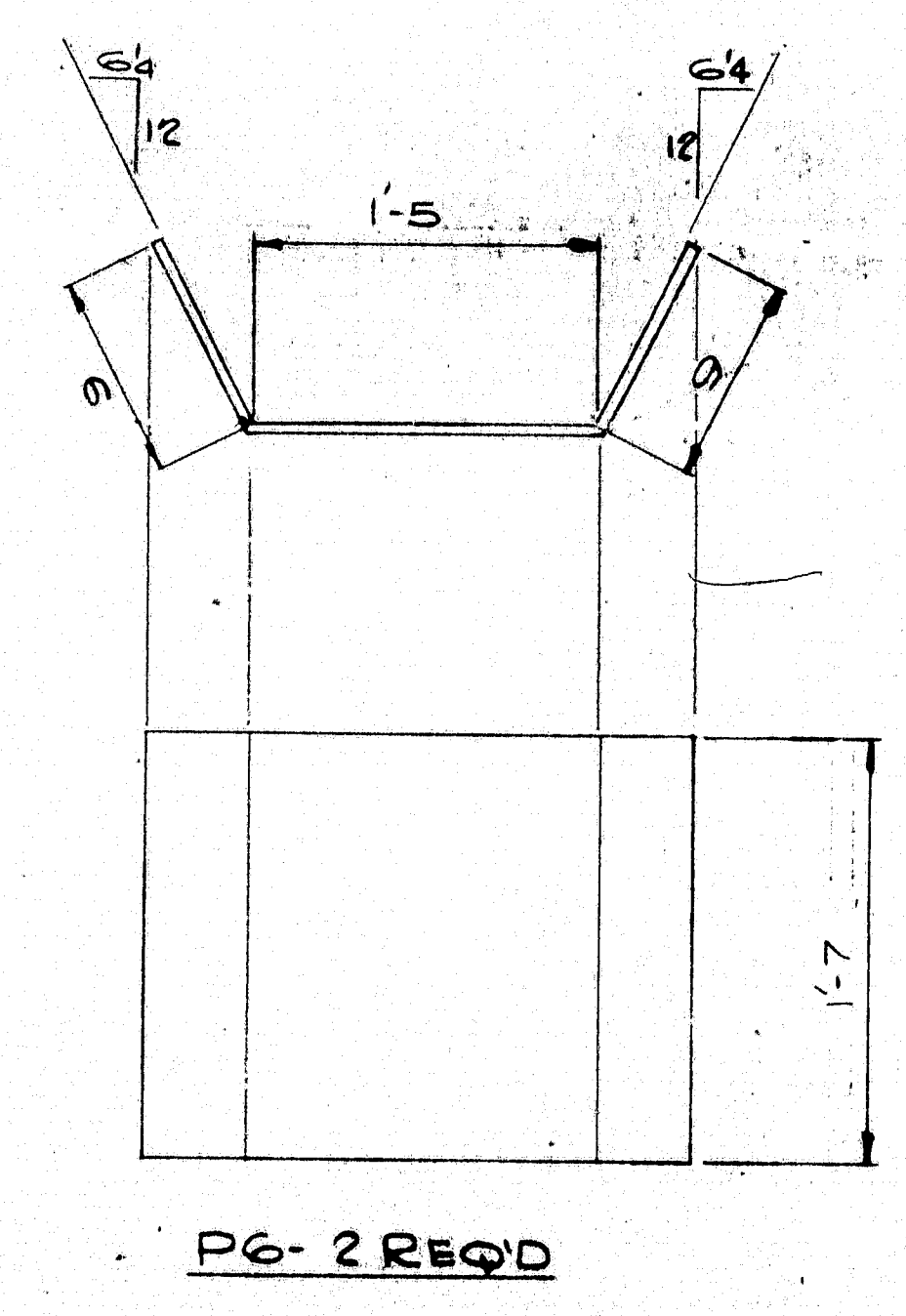
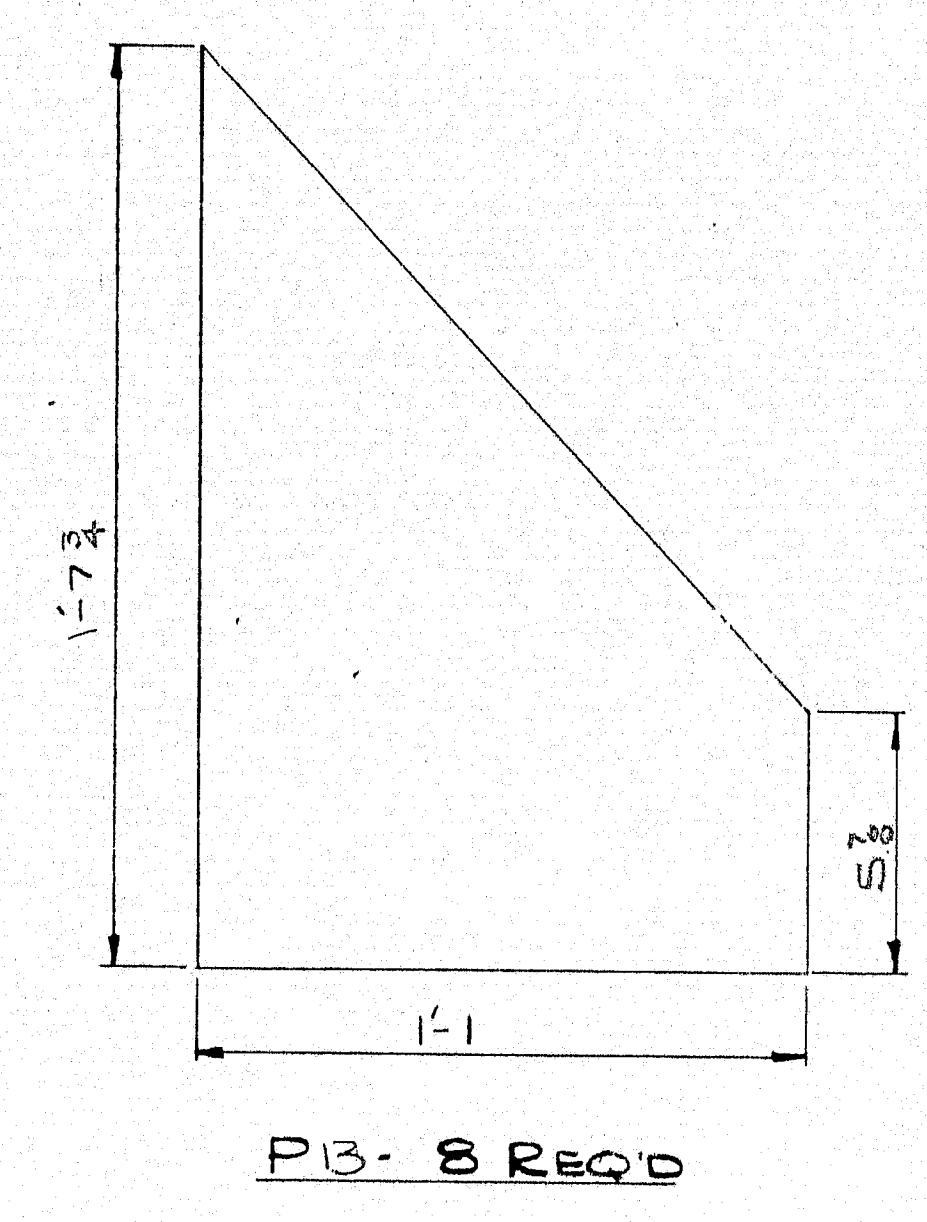
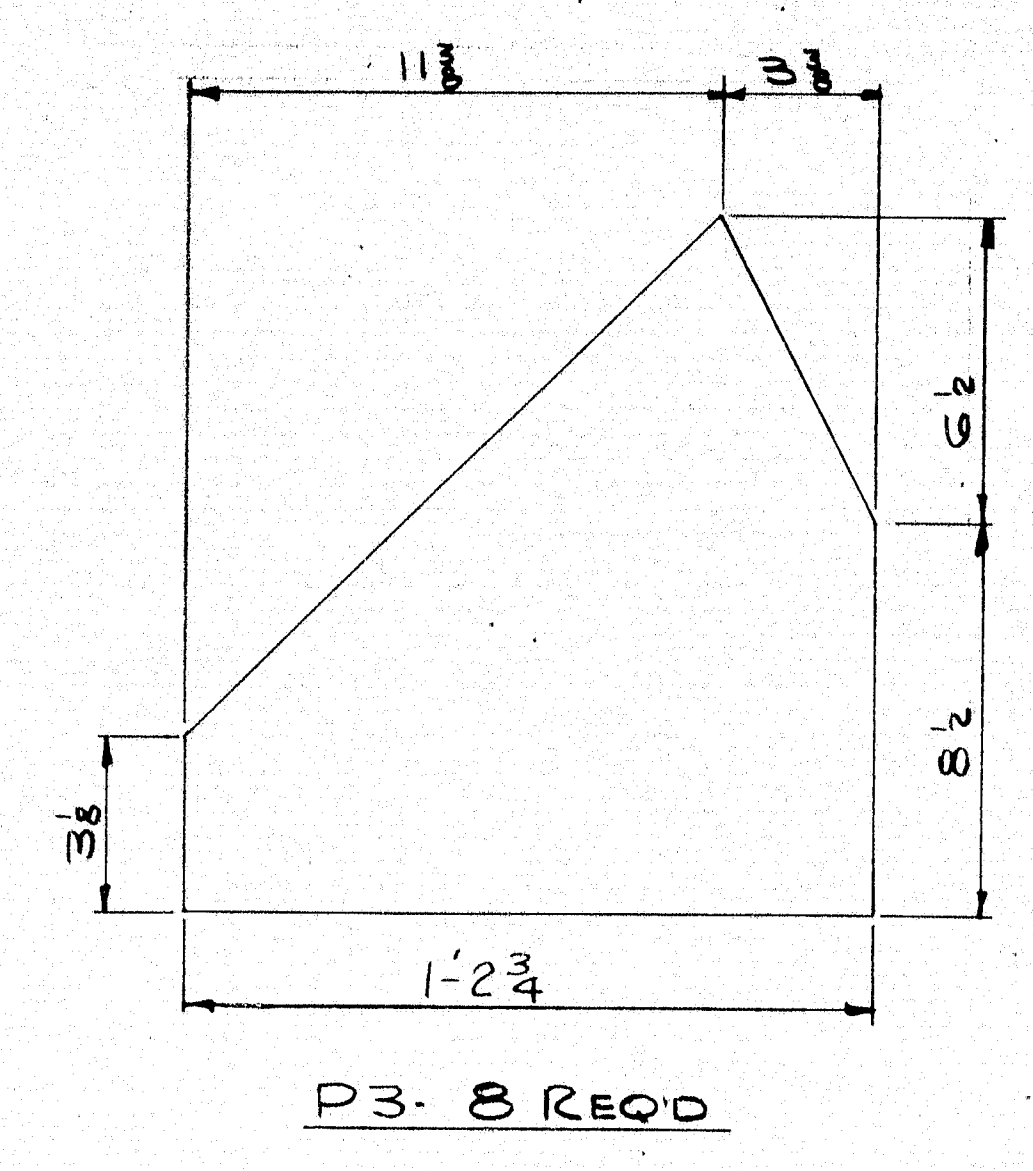
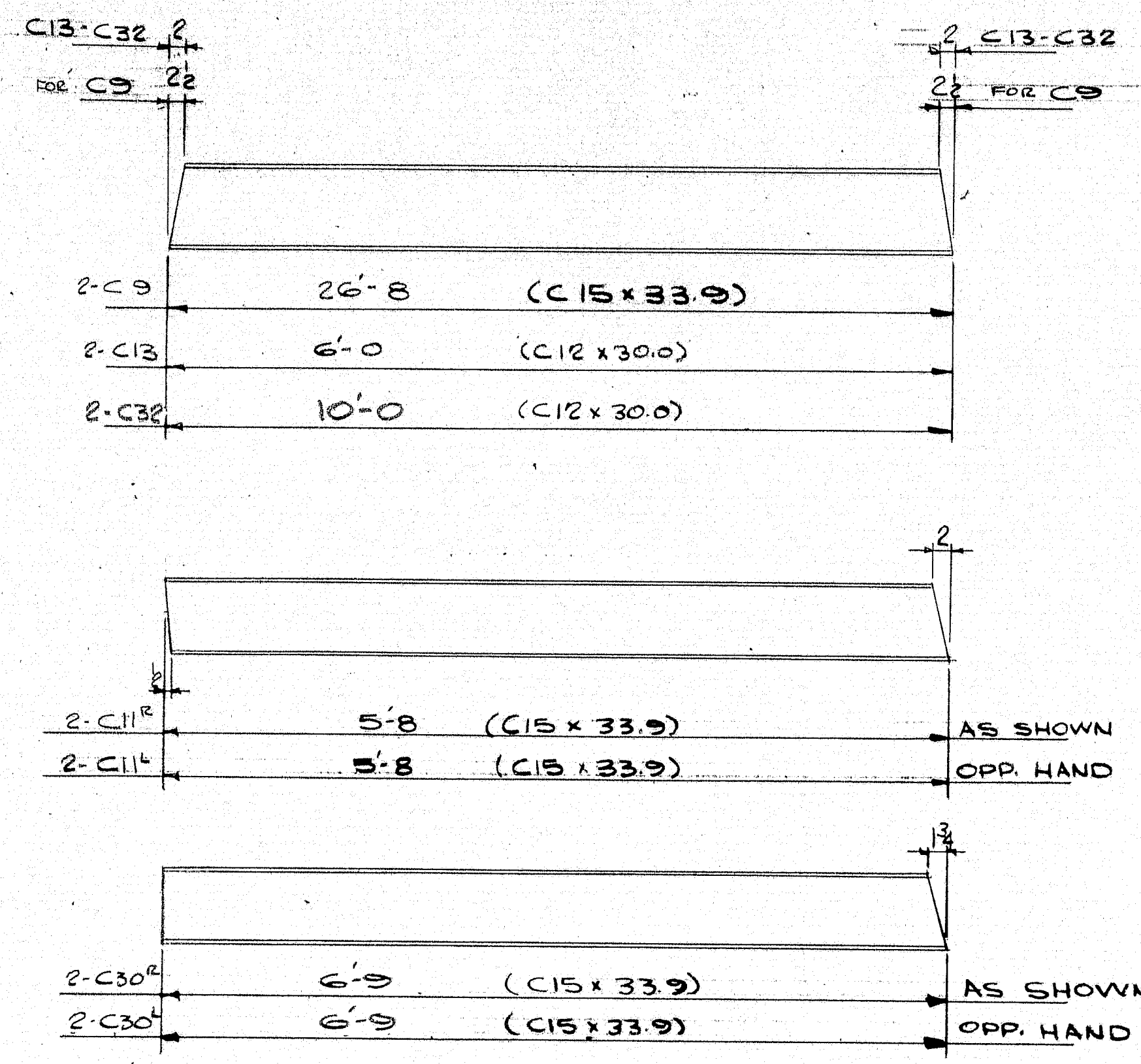


SECTION B-B

BRACING FOR
PIER N° 6

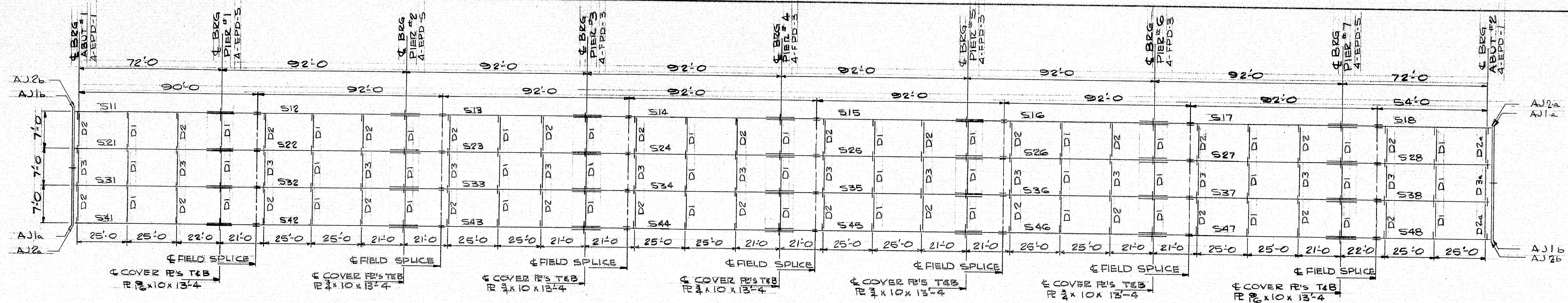
CHANNEL & PLATE DETAILS
SEE DWG M-10

125-159

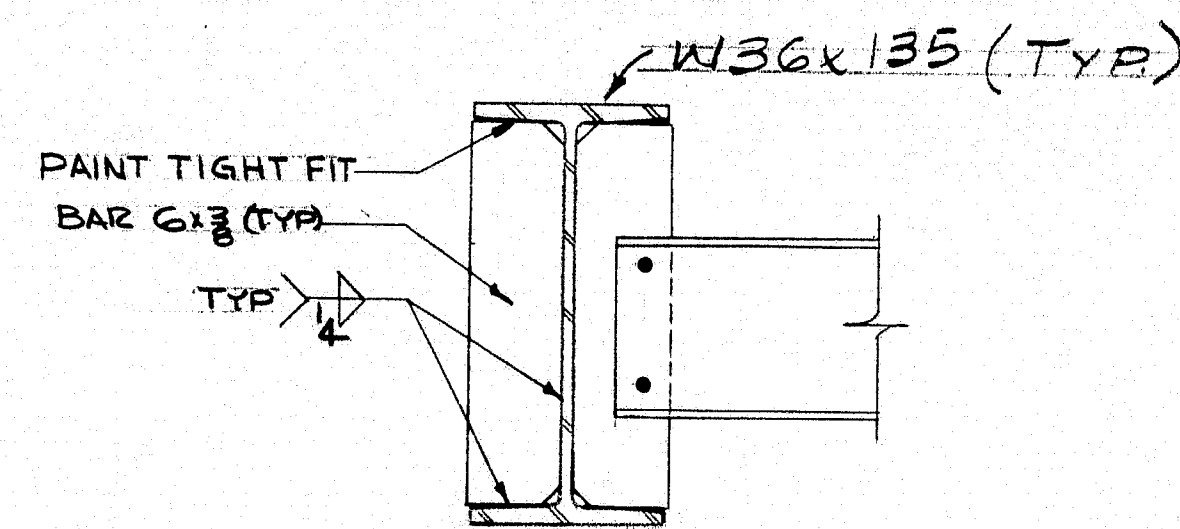


FOR BILL OF MATERIAL
SEE DWG NO M-9

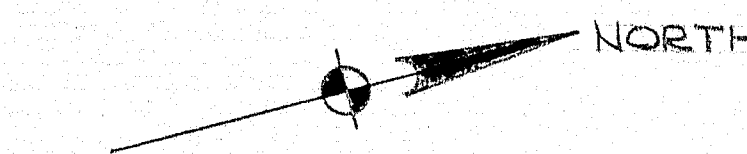
CHANNEL & PLATE DETAILS			
WELDING DETAILS			
PRINT DIST.	2	12-31-70	FA
8	2-1-71	STATE	
2	2-1-71	CUST	
1 SEP 11 A	2-1-71	DRAWN	
JOB: MACHIAS RIVER BRIDGE			
EAST MACHIAS, MAINE			
CUSTOMER: NORMAN E. JACKSON			
DESIGNER: MAINE SHC BRIDGE DIV.			
REV.	CHECKED	JPF	
DRAWN	11-3-70	RKC	
ORDER NO.	B70-437	JOB NO.	
DRAWING NO.	M-10		



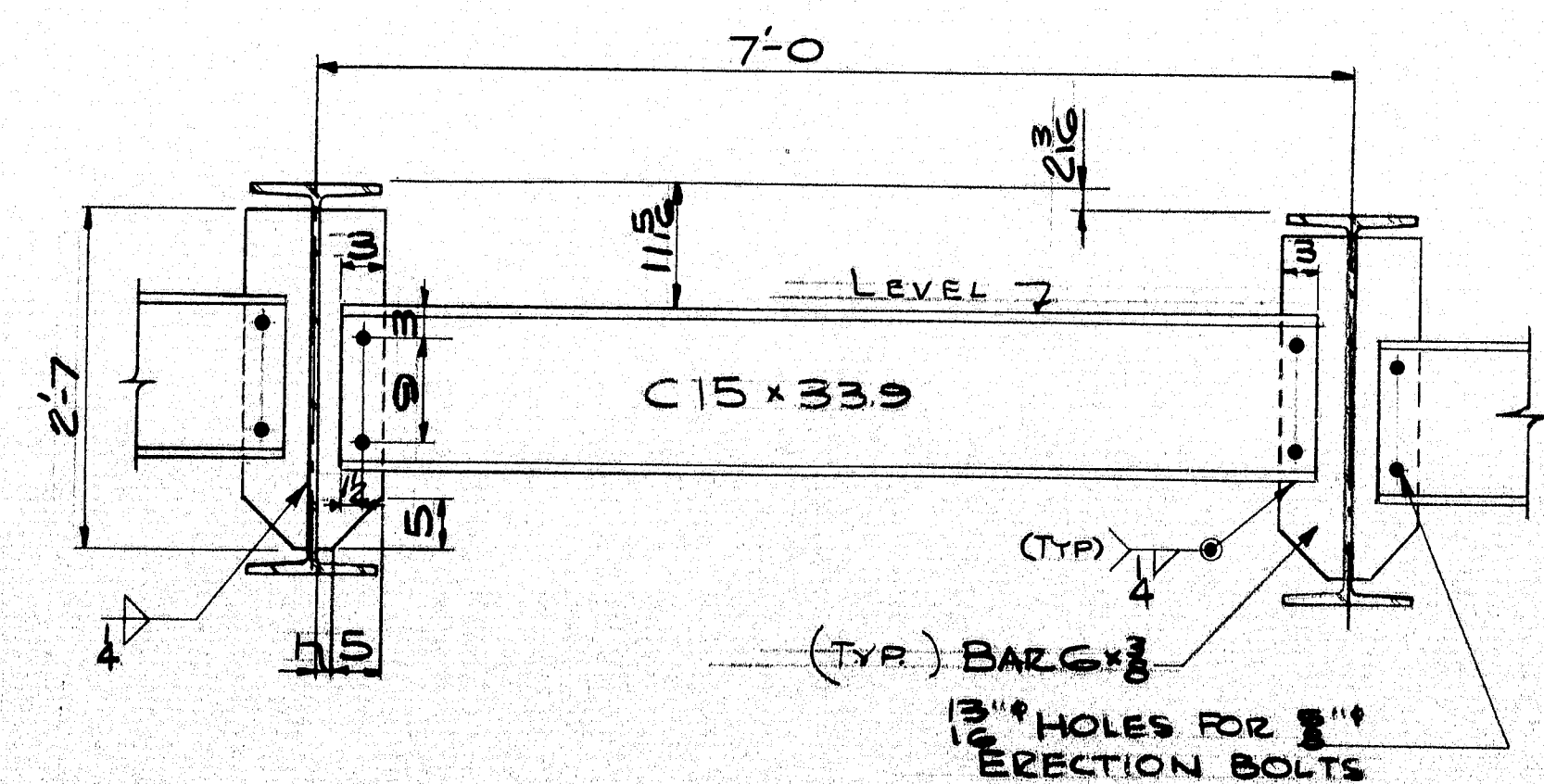
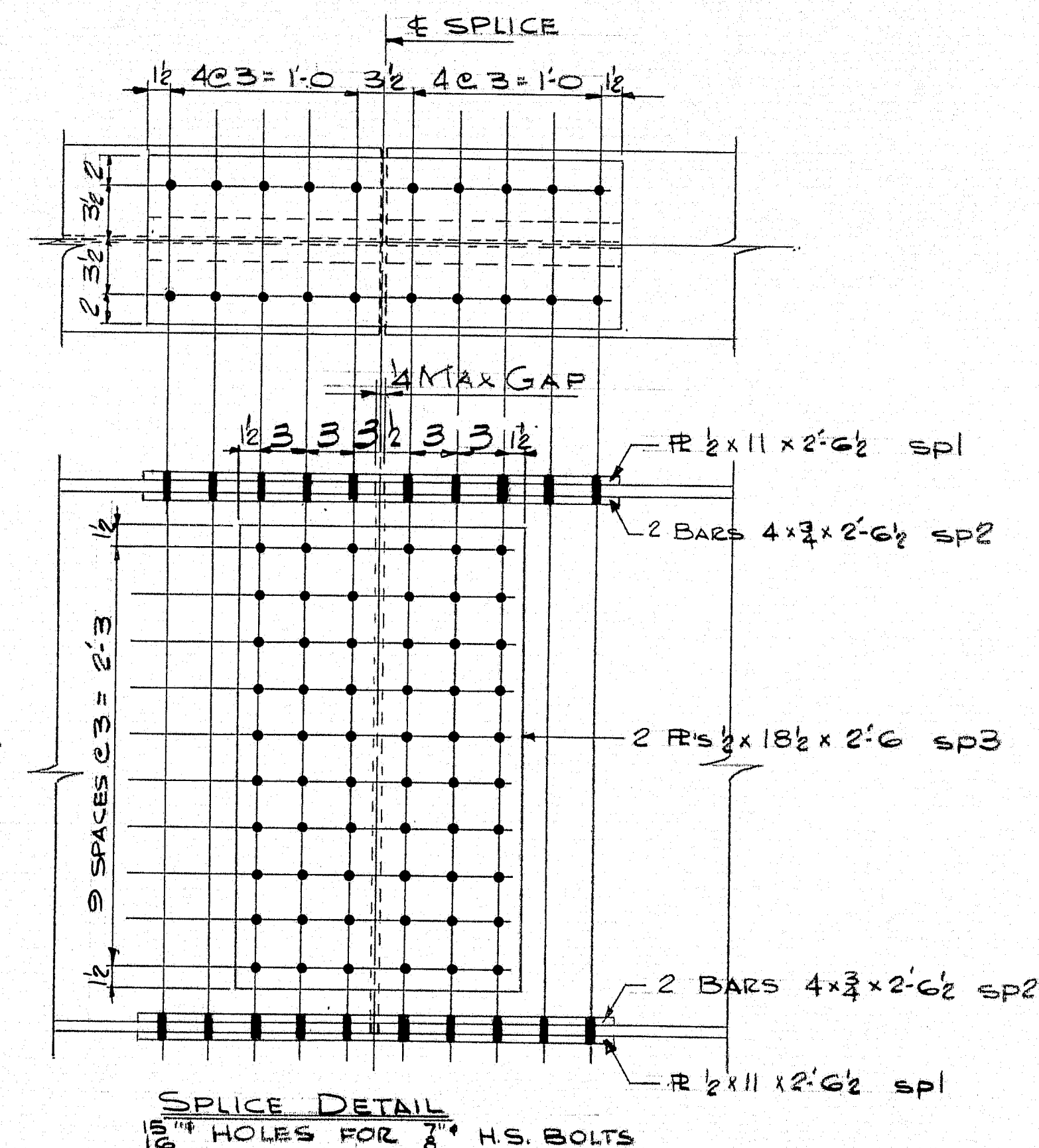
FRAMING PLAN



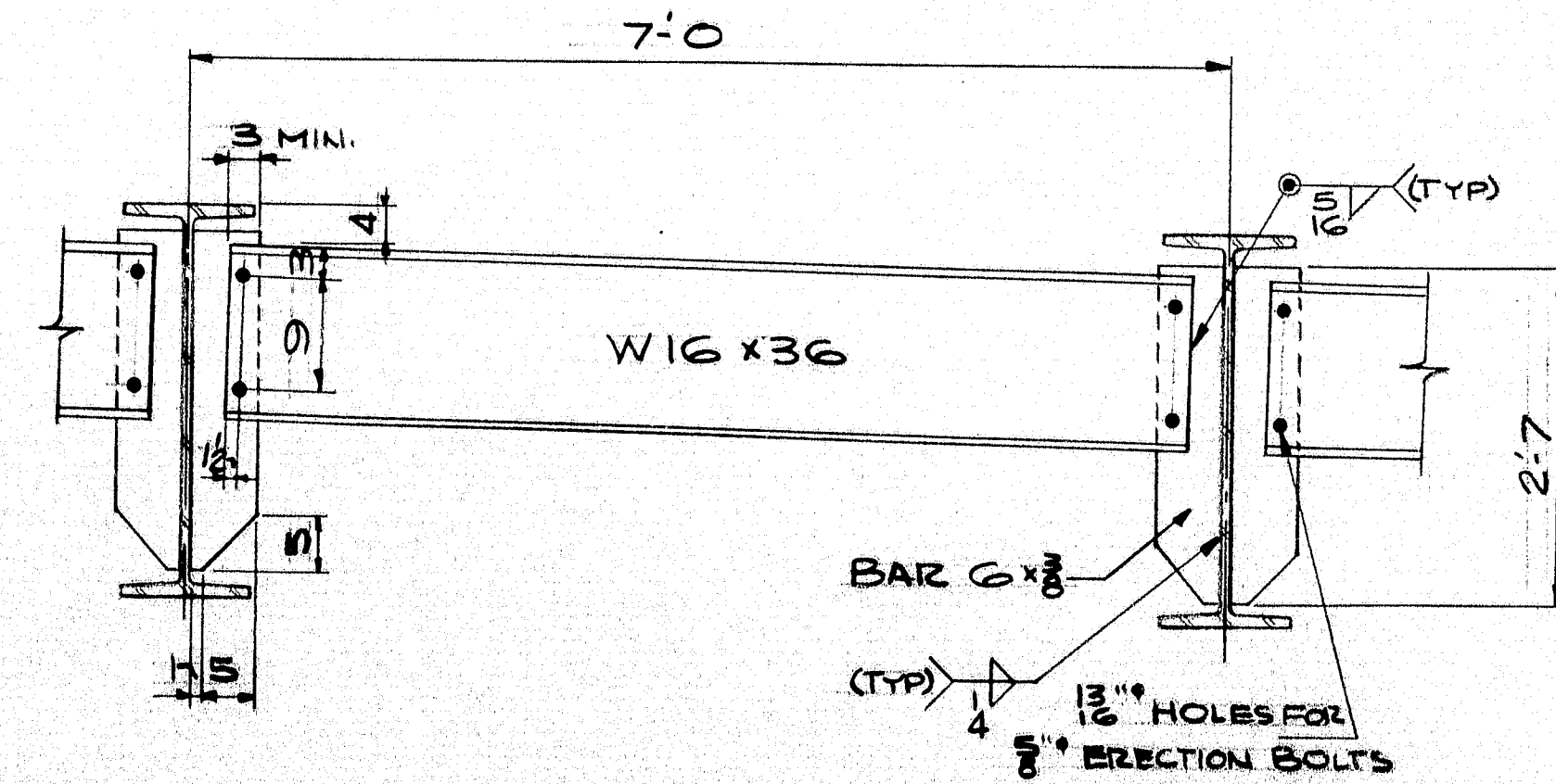
CONNECTION R DETAIL @ PIERS ONLY



SPICE NOTE:
 IN ORDER TO MAINTAIN THE 4" GAPS SHOWN, THE WEBS & FLANGES ARE TO BE CUT (WITH THE USE OF A MECH. GUIDE) AT THE TIME OF SHOP ASSEMBLY OF THE FIELD SPICES.
 HOLES TO BE DRILLED FULL SIZE FROM THE SOLID, WITH ALL THE MATERIAL IN EXACT RELATIVE FIELD POSITION FOR ERECTION.
 FORM BRKT. HOLES ARE TO BE PLUGGED WITH 5/8" CARRIAGE BOLTS. HEADS ON OUTSIDE. HOLES ARE TO BE COMPLETELY COVERED TACK WELD NUTS TO WEBS.



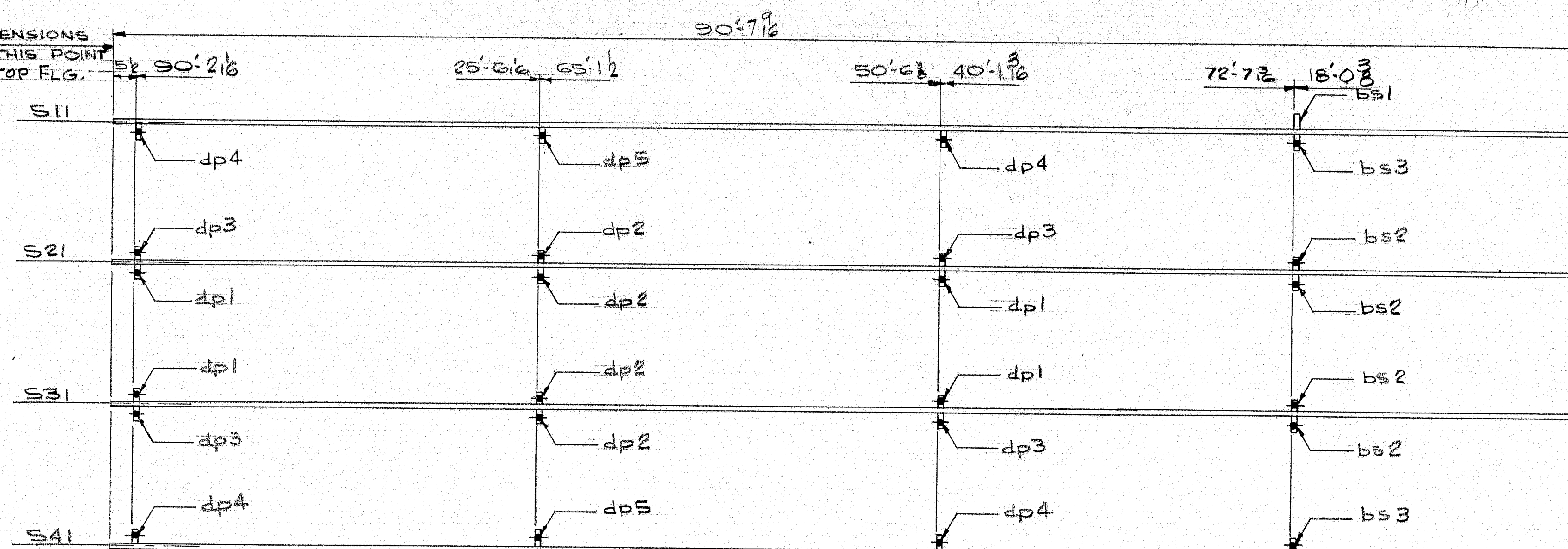
DIAPHRAGM TYPE A (D1)



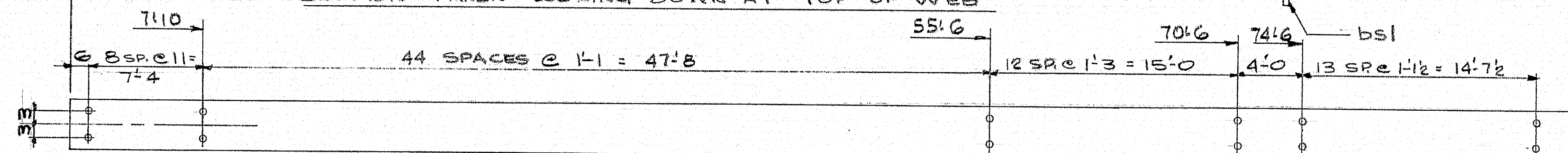
DIAPHRAGM TYPE B (D2 & D3)

APPR. 3-9-71			
FRAMING PLAN			
PRINT DIST.	2	<i>Bancroft & Martin Inc.</i> South Portland 7, Maine JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE CUSTOMER: NORMAN E. JACKSON DESIGNER: MAINE SHC BRIDGE DIV. ORDER NO. JOB NO. DRAWING NO. 870-437 A-1	
FA. 2-18-71	2		
STATE 3-11-71	6		
REVIEW 3-11-71	1		
CUST 3-12-71	2		
REV.			
CHECKED 2-16-71	PAM		
DRAWN 12-9-70	RKC		

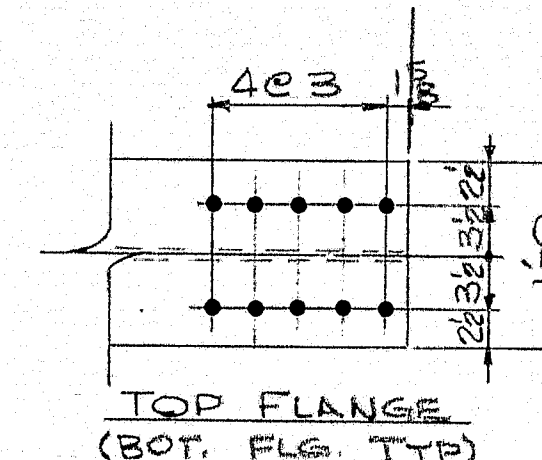
ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG.



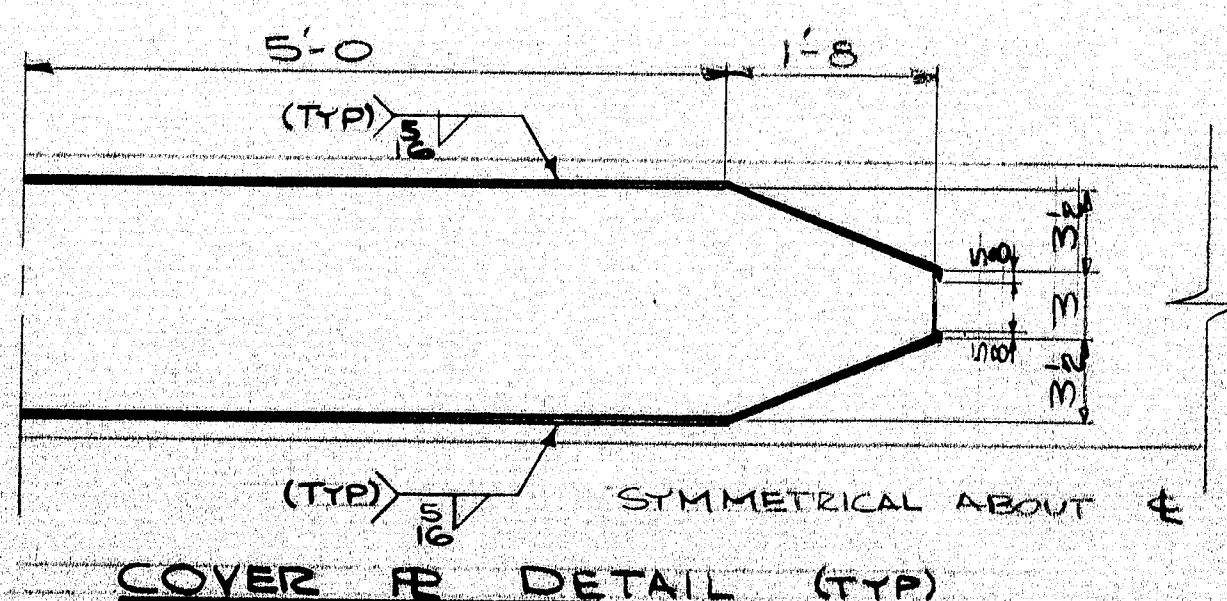
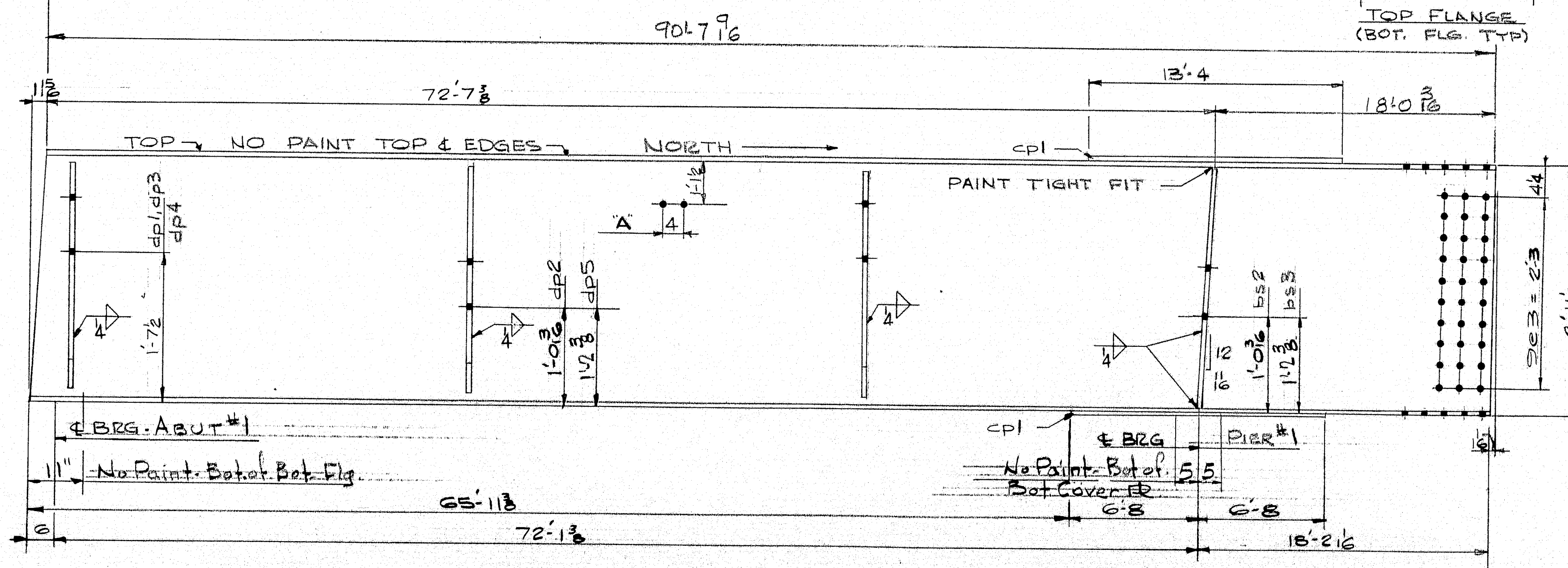
SECTION TAKEN LOOKING DOWN AT TOP OF WEB



SHEAR CONNECTOR LAY OUT



A'
S11-S41
2-1
9-7
17-1
24-7
32-1
39-7
47-1
54-7
62-1
69-7
77-1
84-7

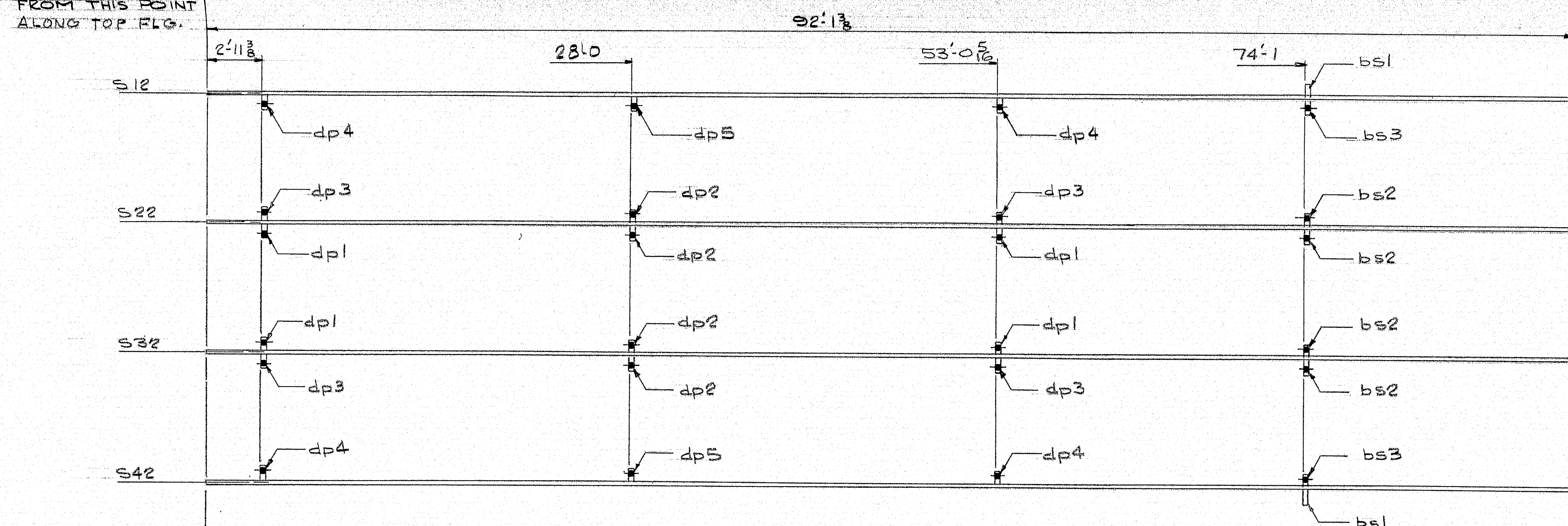


S11, S21, S31, & S41
ONE EACH REQ'D
Any Nat. Camber Up

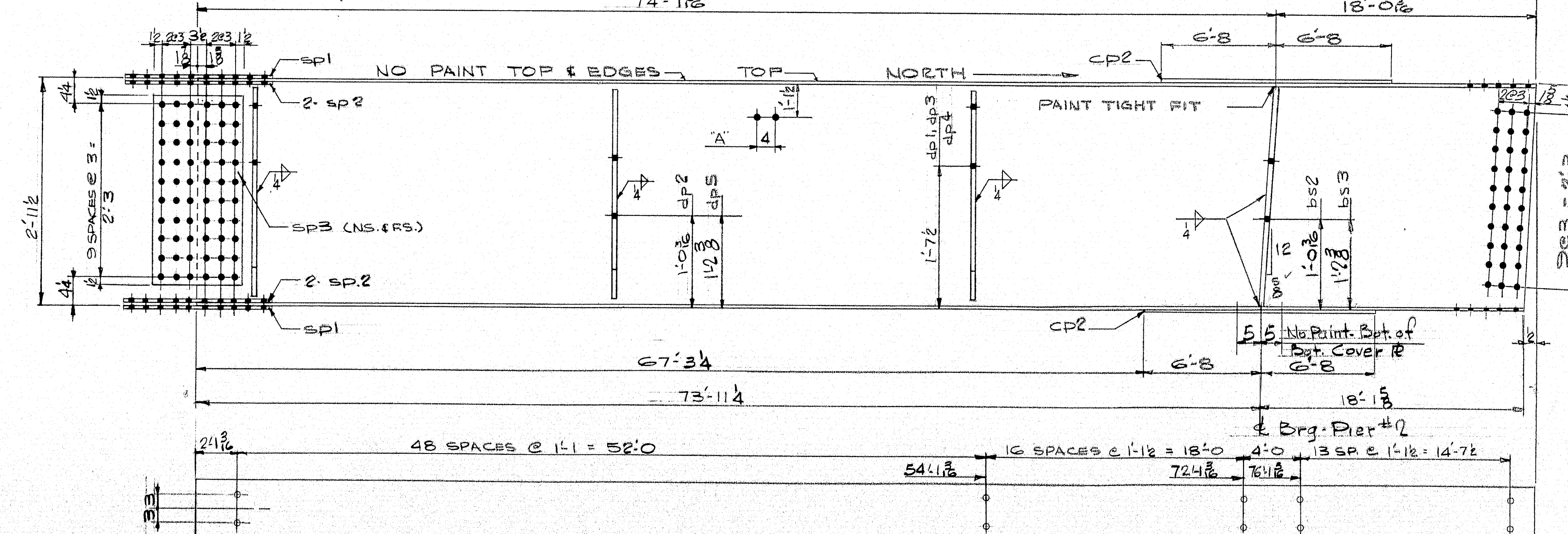
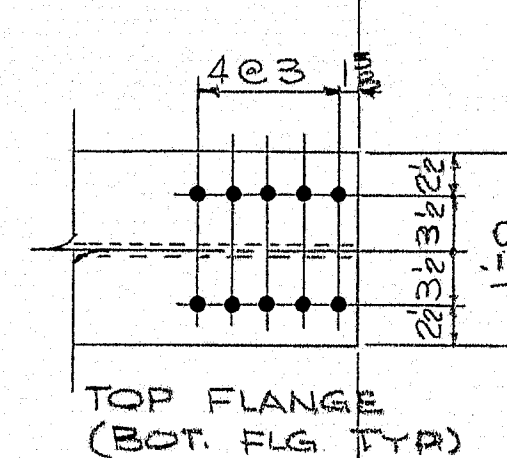
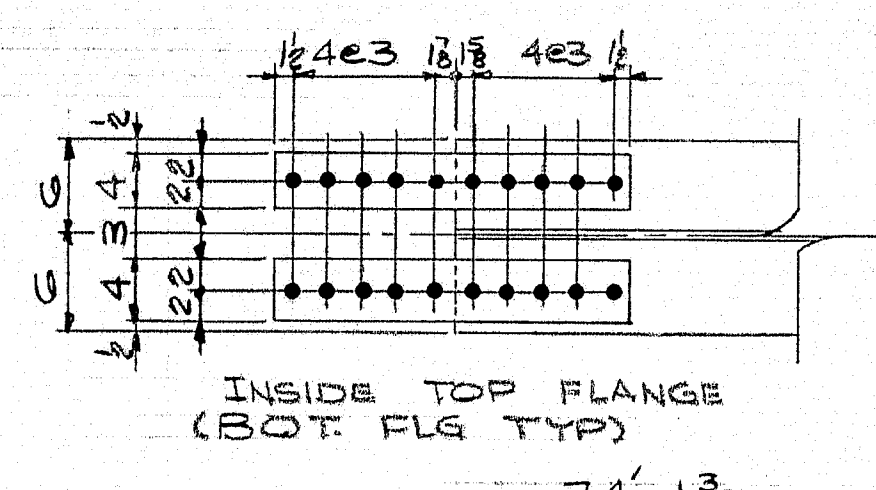
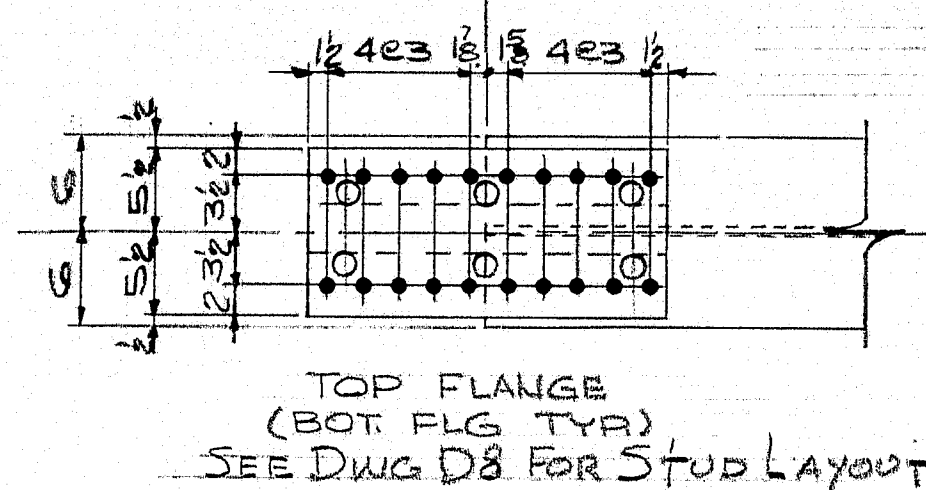
SHIP		BILL OF MATERIAL			JOB NO. B70-437		DWG. NO. D-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS	
S11	1		W 36 x 135	90	9 1/2	1		
S21	1		D _o	90	9 1/2	1		
S31	1		D _o	90	9 1/2	1		
S41	1		D _o	90	9 1/2	1		
	8	cp1	PL 1/2 x 10	13	4	7		
	4	dp1	BAR 6 x 3	2	7	12	ASTM A36	
	4	dp2	D _o	2	7		D _o	
	4	dp3	D _o	2	7		D _o	
	4	dp4	D _o	2	7		D _o	
	2	dp5	D _o	2	7	12	D _o	
	2	bs1	BAR 6 x 3	2	9 3/8	11	ASTM A36	
	4	bs2	D _o	2	9 3/8	11	D _o	
	2	bs3	D _o	2	9 3/8	11	D _o	
	632	SHOP	3/4" SHEAR CONN.	0	5	—	ITEM NO 504.70	
Holes are for high tensile bolts They are to be free from burrs and shall not be painted on any surface within 5" of each open holes.								
PROJ. NO 2253 (JEP NO 224 DE-A244)								
ITEM NO 504.70 Unless Noted								
STEEL: ASTM. A 572 GRADE 45 # AS NOTED								
WELDING ELECTRODE E70 16-18 or 28								
SHOP CONN: WELDED								
FIELD CONN: BOLTED								
HOLES: 1/2"								
PAINT: RED LEAD PER MAINE SPEC'S								
SPECIAL CLEANING: BLAST CLEAN								
APPROVED: AS NOTED 3-7-71								
STRINGER DETAILS (S11-S21-S31-S41)								
PRINT DIST.			Bancroft & Martin Inc. South Portland, Maine 04106					
F.A.	2-18-71	2						
STATE	3-11-71	8						
BREWSTER	3-11-71	1 SEP 11						
CUST	3-12-71	2	JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE					
			CUSTOMER: NORMAN E. JACKSON					
			DESIGNER: MAINE SHC BRIDGE DIV.					
REV.			ORDER NO.	JOB NO.		DRAWING NO.		
CHECKED	2-16-71	PAM			B70-437		D-1	
DRAWN	12-3-70	RKC						

125-162

ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG.



SECTION TAKEN LOOKING DOWN AT TOP OF WEB



SHEAR CONNECTOR LAY OUT

S12, S22, S32, & S42
ONE EACH REQ'D
Any Nat. Camber Up.

NOTE:
FOR COVER PLATE DETAIL
SEE DWG. NO. D-1

SHIP		BILL OF MATERIAL		JOB NO. B70-437		DWG. NO. D-2	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
S12	1		W36 x 135	92' 1 1/2"		2	
S22	1		D _o	92' 1 1/2"		2	
S32	1		D _o	92' 1 1/2"		2	
S42	1		D _o	92' 1 1/2"		2	
	8	CP2	FE 3/4 x 10	13' 4"		8	
	4	dp1	BAR 6 x 3/8	2' 7"		12	ASTM A36
	4	dp2	D _o	2' 7"			D _o
	4	dp3	D _o	2' 7"			D _o
	4	dp4	D _o	2' 7"			D _o
	2	dp5	D _o	2' 7"		12	D _o
	2	bs1	BAR 6 x 3/8	2' 9 1/8"		11	ASTM A36
	4	bs2	D _o	2' 9 1/8"		11	D _o
	2	bs3	D _o	2' 9 1/8"		11	D _o
	8	sp1	FE 1/2 x 11	2' 6 1/2"		5	
	16	sp2	BAR 4 x 3/4	2' 6 1/2"		6	
	8	sp3	FE 1/2 x 18 1/2	2' 6"		4	
	656	SHOP	3" SHEAR CONN.	0' 5"		1	ITEM NO. 504.70

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs
and shall not be painted on any
surface within 5" of such open
holes.

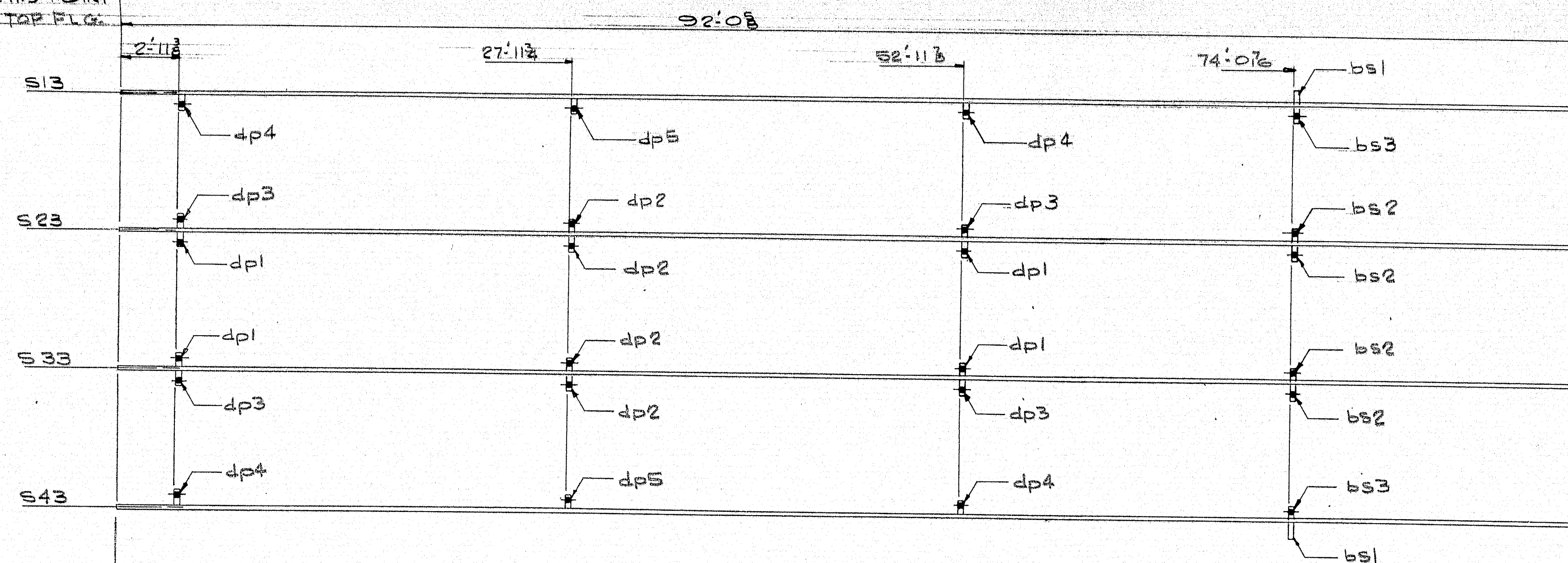
STEEL: ASTM A572 GRADE 45 & AS NOTED
WELDING ELECTRODE E70 16, 18, OR 28
SHOP CONN: WELDED
FIELD CONN: BOLTED
HOLES: 1 1/2"
PAINT: RED LEAD PER MAINE SPEC'S
SPECIAL CLEANING: BLAST CLEAN
APPROVED: 3-9-71

STRINGER DETAILS (S12-S22-S32-S42)

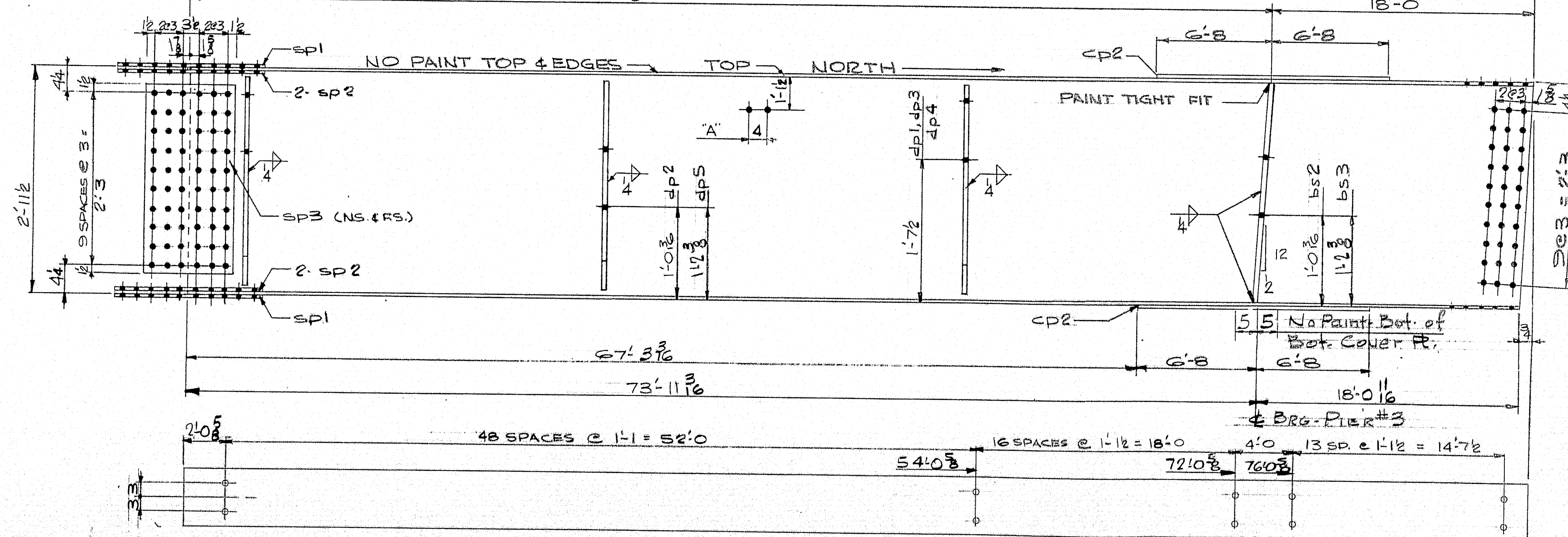
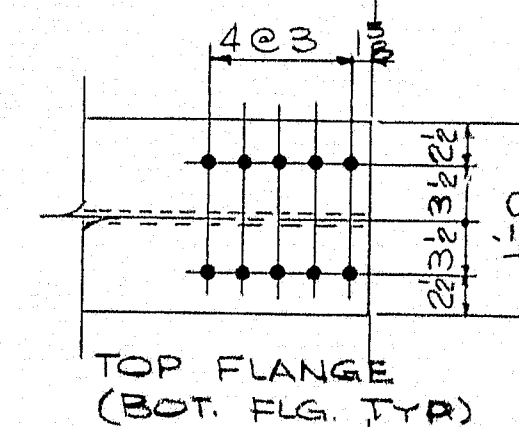
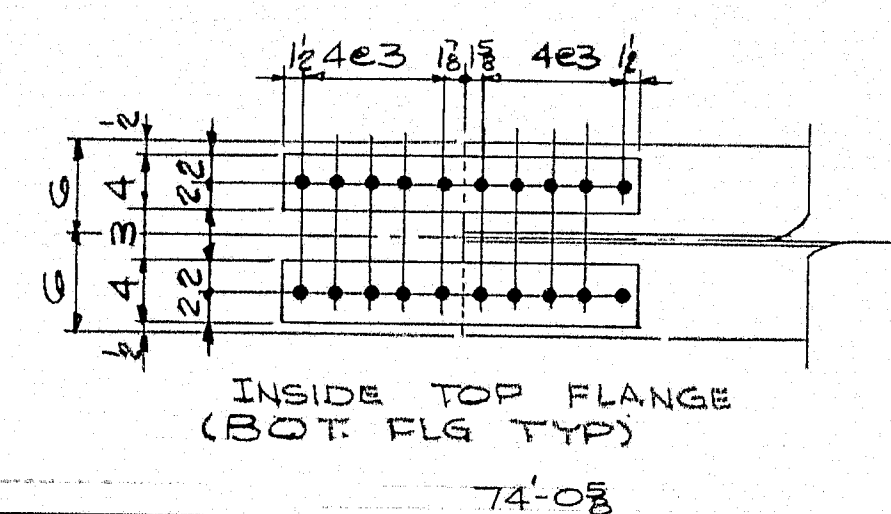
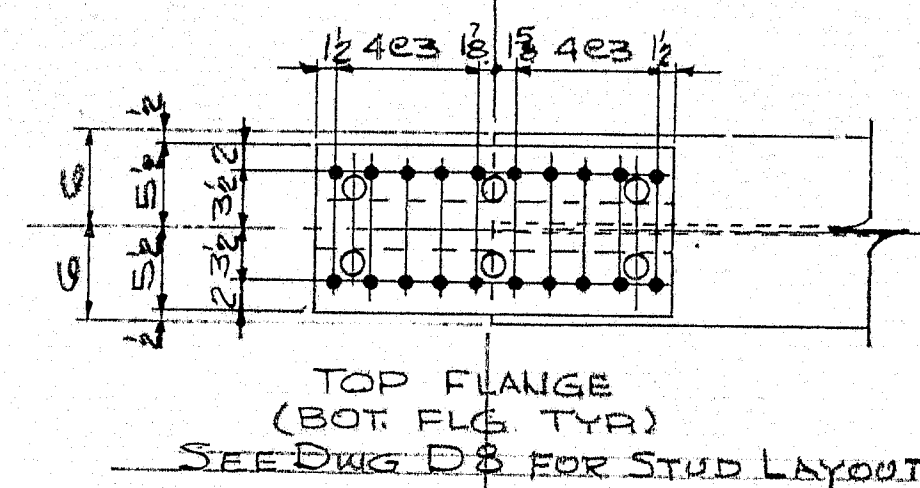
PRINT DIST.	2-18-71	2
STATE	3-11-71	6
DESIGNED BY	3-11-71	10501A
CHECKED BY	3-12-71	2
REV.		
CHECKED	2-16-71	PAM
DRAWN	1-4-71	RKC
Bancroft & Martin Inc. South Portland, Maine 04106		
JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE		
CUSTOMER: NORMAN E. JACKSON		
DESIGNER: MAINE SHC BRIDGE DIV		
ORDER NO.	JOB NO.	DRAWING NO.
	B70-437	D-2

125-163

ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG.



SECTION TAKEN LOOKING DOWN AT TOP OF WEB



S13, S23, S33, & S43

ONE EACH REQ'D

Any Not Camber Up

NOTES
FOR COVER RE DETAIL
SEE DWG. NO. D-1

SHIP		BILL OF MATERIAL		JOB NO. E70-437		DWG. NO. D-3	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS

S13	1		W 36 x 135	92' 0 3/8		2	
S23	1		D _o	92' 0 3/8		2	
S33	1		D _o	92' 0 3/8		2	
S43	1		D _o	92' 0 3/8		2	

8	CD2	RE 3/4 x 10	13	4		8	
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4	dp1	BAR 6 x 3/8	2	7		12	ASTM A36
4	dp2	D _o	2	7			D _o
4	dp3	D _o	2	7			D _o
4	dp4	D _o	2	7			D _o
2	dp5	D _o	2	7		12	D _o

2	bs1	BAR 6 x 3/8	2	9 3/8		11	ASTM A36
4	bs2	D _o	2	9 3/8		11	D _o
2	bs3	D _o	2	9 3/8		11	D _o

8	sp1	RE 1/2 x 11	2	6 1/2		5	
16	sp2	BAR 4 x 3/4	2	6 1/2		6	
8	sp3	RE 1/2 x 18 1/2	2	6		4	

CSG SHOP	7/8" SHEAR	8	CONN	0	5		ITEM NR 504.08
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HOLES ARE FOR HIGH-TENSILE BOLTS
They are to be free from burrs
and shall not be painted on any
surface within 5" of such open
holes

STEEL: ASTM A 572 GRADE 45 & AS NOTED
WELDING ELECTRODE E70 16, 18, & 28
SHOP CONN: WELDED
FIELD CONN: BOLTED
HOLES: 1 1/2"
PAINT: RED LEAD PER MAINE SPEC'S
SPECIAL CLEANING: BLAST CLEAN
APPROVED: 3-2-71

STRINGER DETAILS (S13-S23-S33-S43)

PRINT DIST.	2-18-71	2
STATE	3-11-71	6
DESIGNED	3-11-71	1581A
COST	3-12-71	2

Bancroft & Martin Inc.
South Portland, Maine 04106

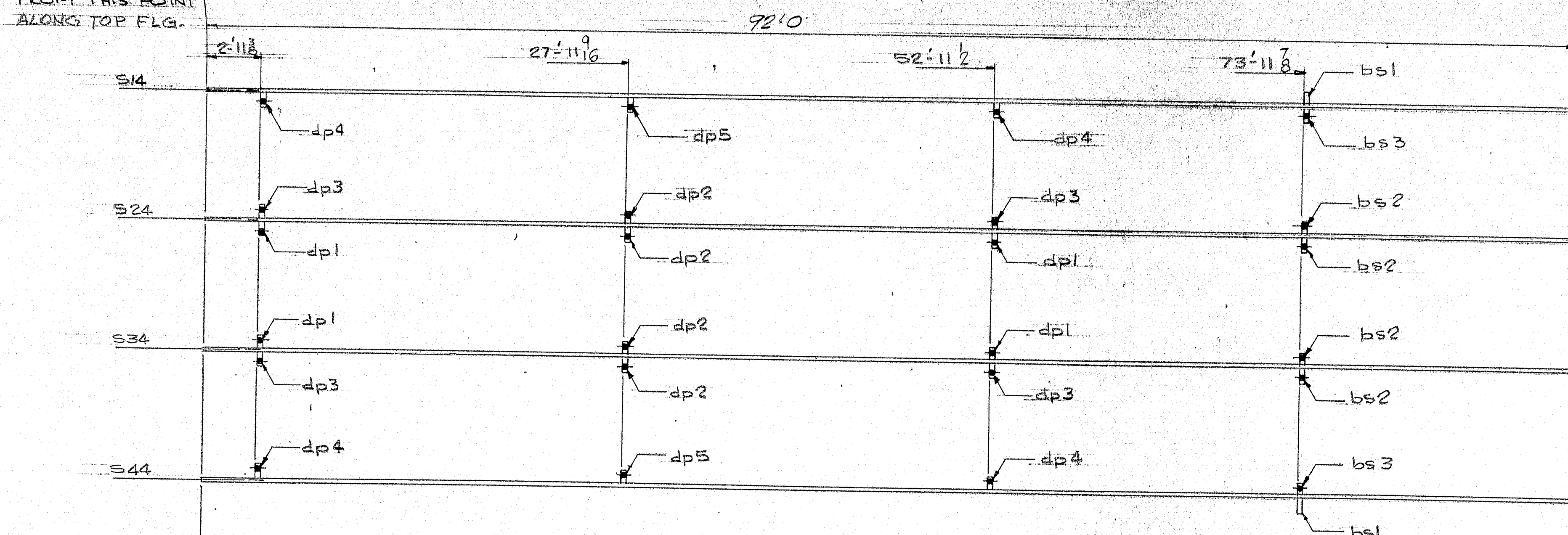
JOB:
MACHIAS RIVER BRIDGE
EAST MACHIAS, MAINE

CUSTOMER: NORMAN E. JACKSON
DESIGNER: MAINE SHC BRIDGE DIV.

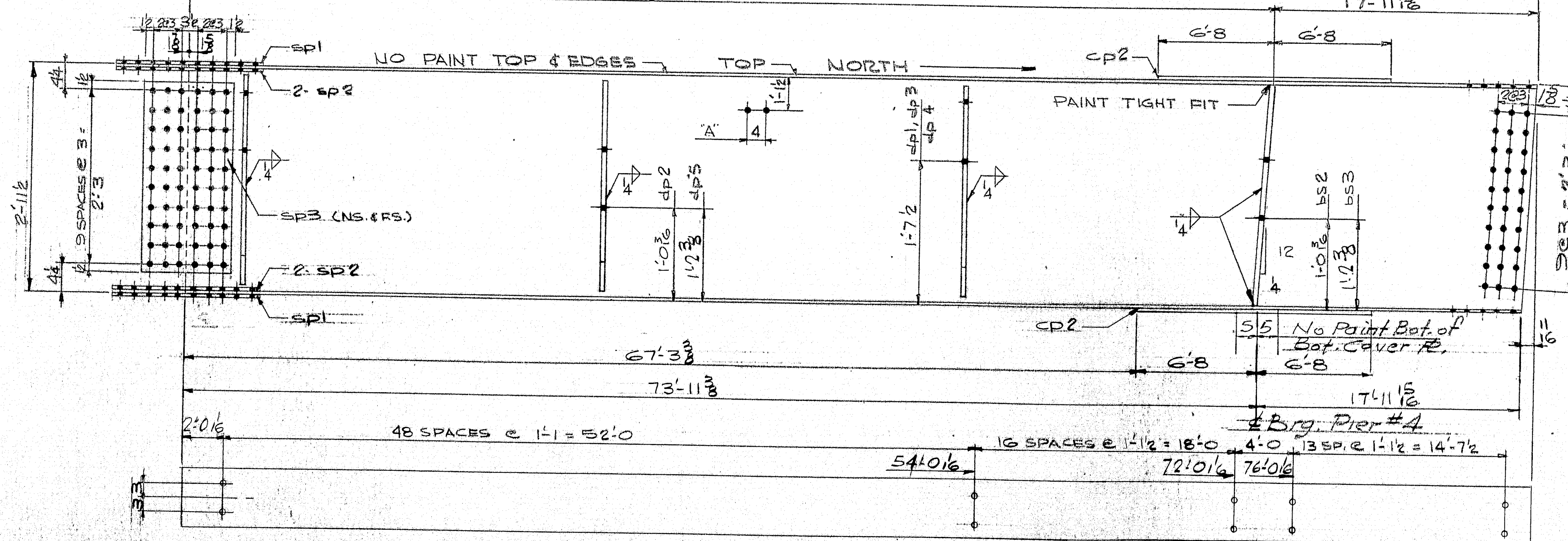
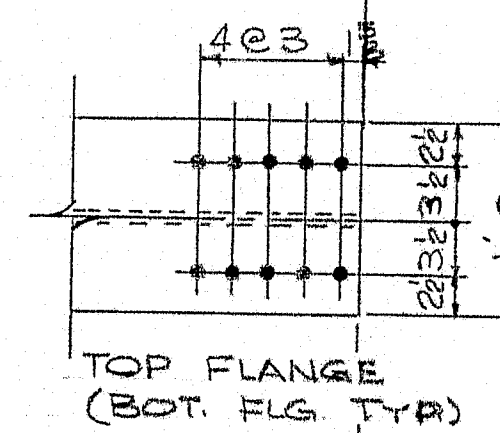
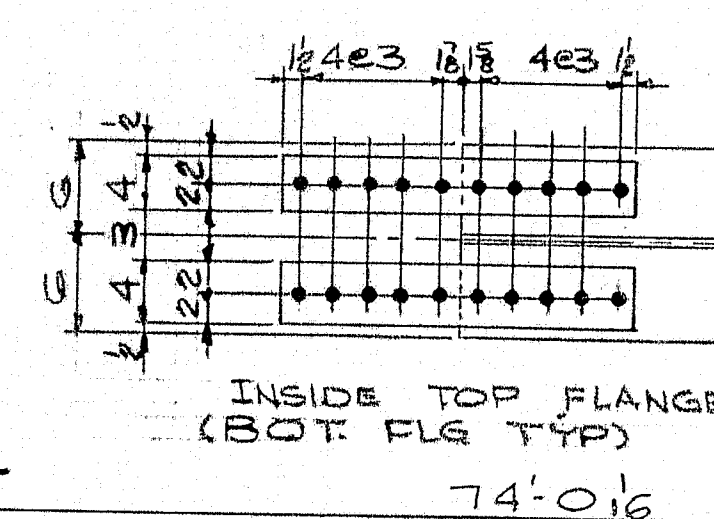
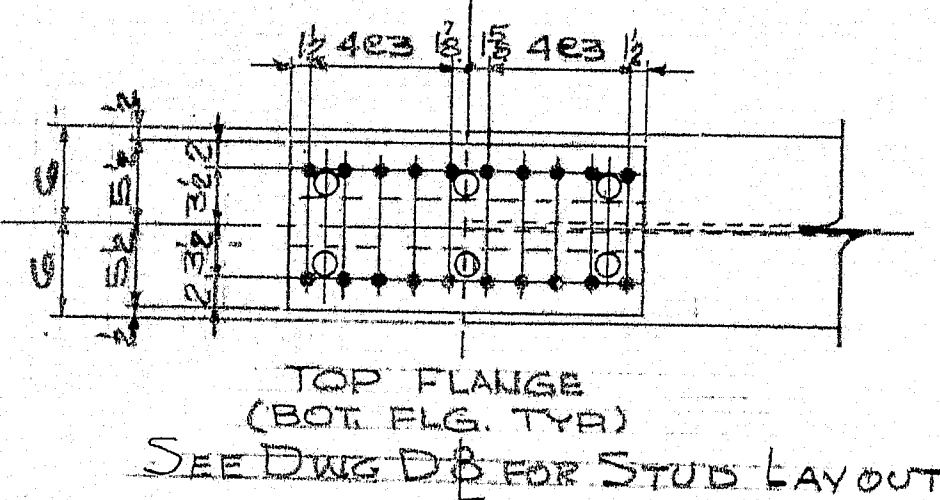
REV.			ORDER NO.	JOB NO.	DRAWING NO.
CHECKED	2-16-71	PAM		B70-437	D-3
DRAWN	1-4-71	RKC			

125-164

ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG.



SECTION TAKEN LOOKING DOWN AT TOP OF WEB



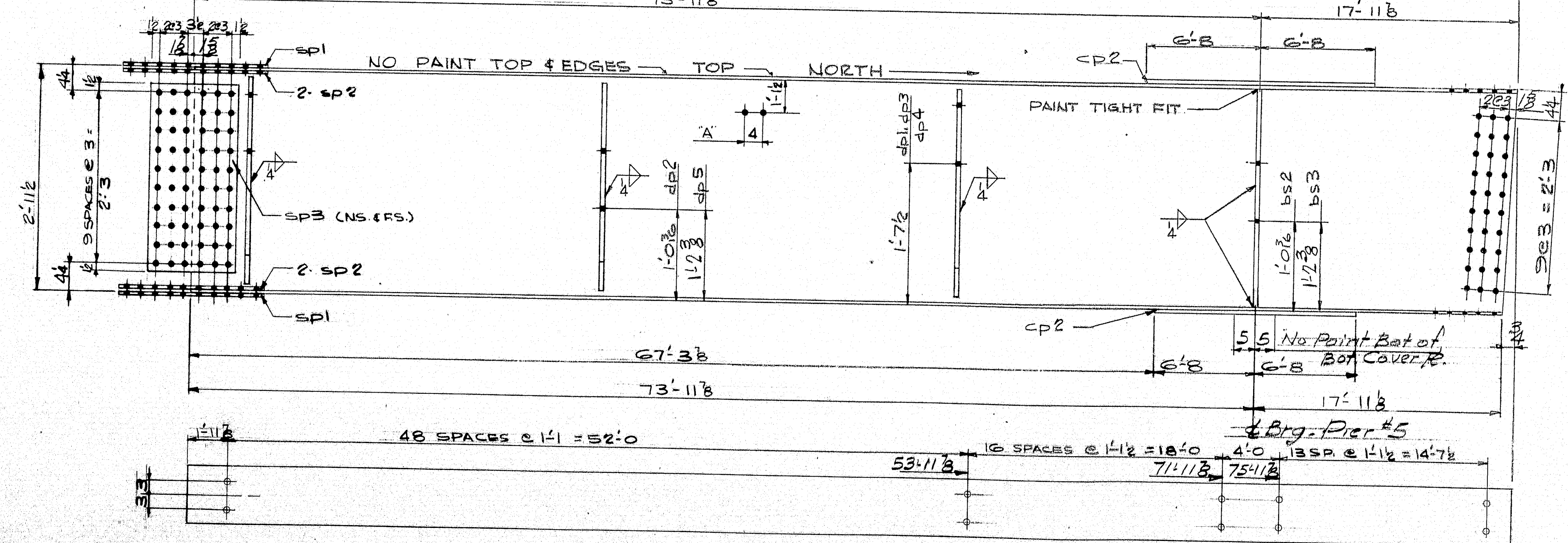
SHEAR CONNECTOR LAY OUT

S14, S24, S34, & S44
ONE EACH REOD
Any Nat. Camber Up

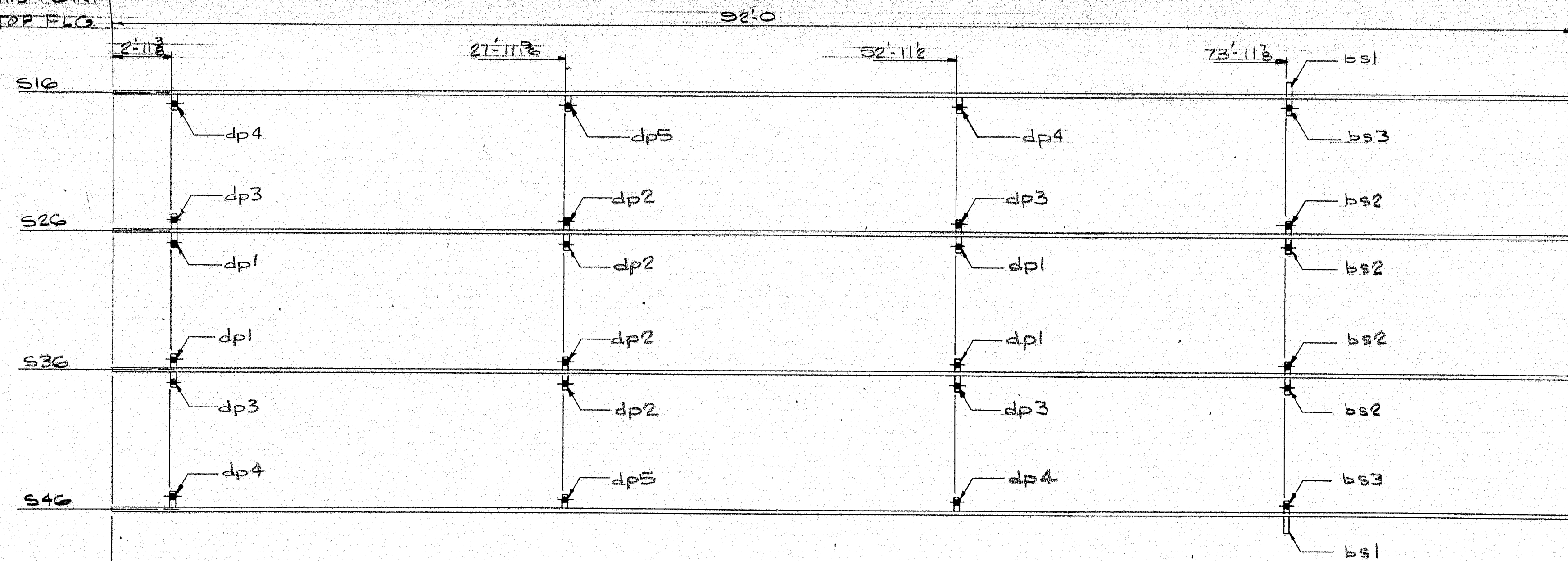
NOTE:
FOR COVER R DETAIL
SEE DWG. N-1

"A"
54'-5 1/4"
4'-0"
9'-0"
14'-10"
22'-4"
29'-10"
37'-4"
44'-10"
51'-10"
59'-4"
66'-10"
74'-4"
81'-10"
89'-4"

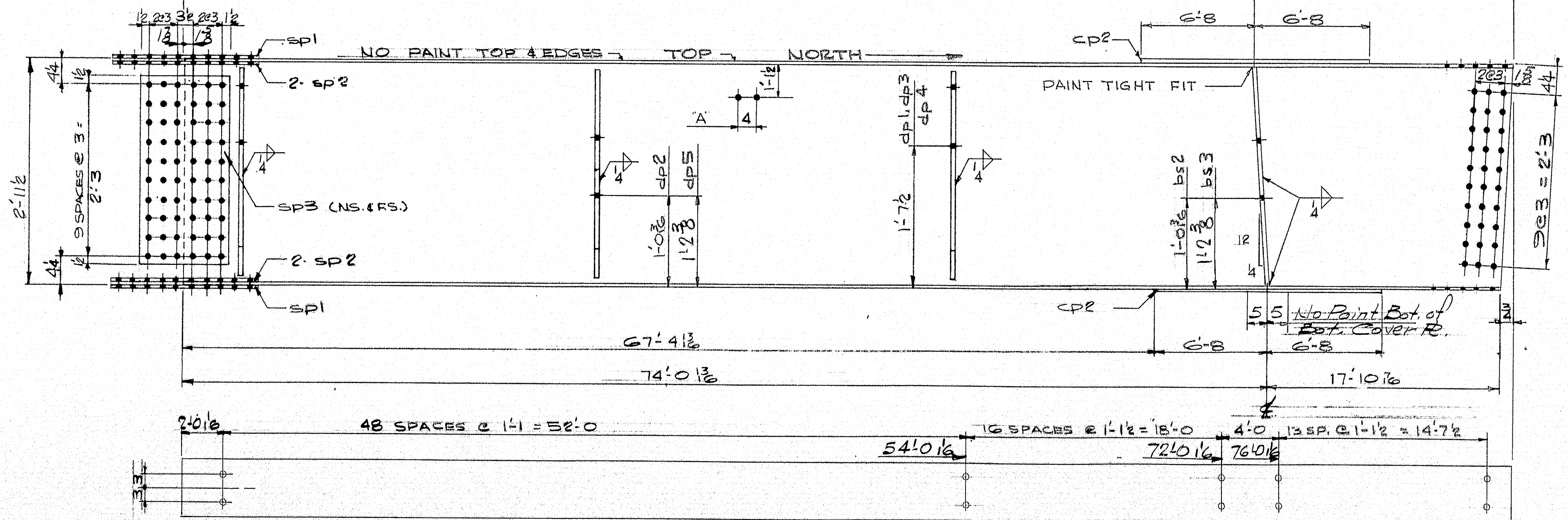
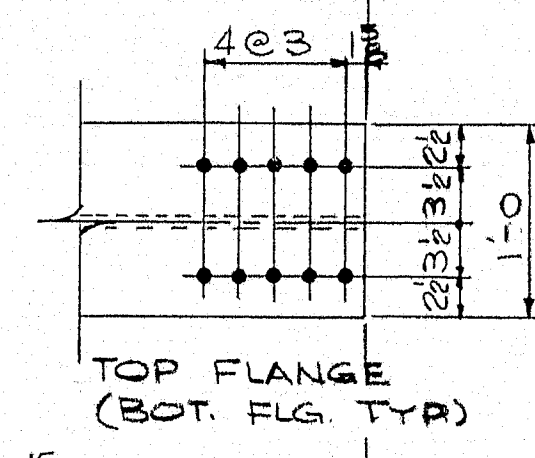
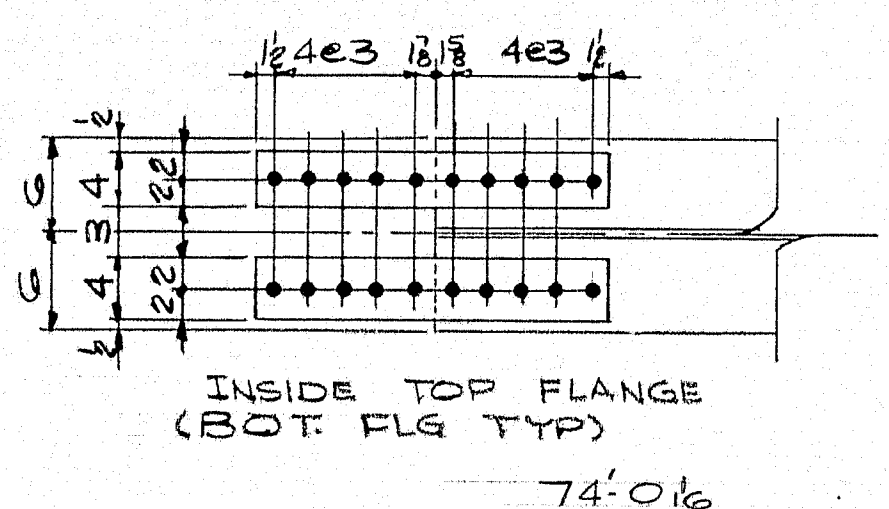
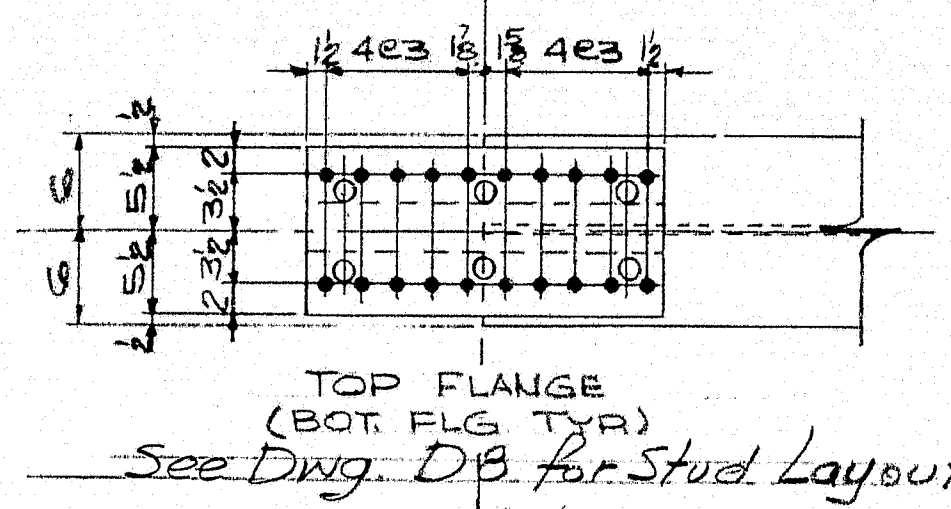
SHIP		BILL OF MATERIAL		JOB NO. 370-437		DWG. NO. D-4	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
S14	1		W36 x 135	92' 0"		2	
S24	1		D _o	92' 0"		2	
S34	1		D _o	92' 0"		2	
S44	1		D _o	92' 0"		2	
	8	CP2	R 3/4 x 10	13' 4"		8	
	4	dp1	BAR C x 3/8	2' 7"		12	ASTM A36
	4	dp2	D _o	2' 7"		12	D _o
	4	dp3	D _o	2' 7"		12	D _o
	4	dp4	D _o	2' 7"		12	D _o
	2	dp5	D _o	2' 7"		12	D _o
	2	bs1	BAR 6 x 3/8	2' 9 3/8"		11	ASTM A36
	4	bs2	D _o	2' 9 3/8"		11	D _o
	2	bs3	D _o	2' 9 3/8"		11	D _o
	8	SP1	R 1/2 x 11	2' 6 1/2"		5	
	16	SP2	BAR 4 x 3/4	2' 6 1/2"		6	
	8	SP3	R 1/2 x 18 1/2	2' 6"		4	
	556	SHOP	7/8" SHEAR CONN	0' 5"			ITEM NO. 505.08
HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on any surface within 1" of each open hole.							
PROJ. NO. 2253 (COP. NO. 134 DE-A 44) ITEM NO. 504.20 UNLESS NOTED							
STEEL: ASTM A572 GRADE 45 & 45 NOTED WELDING ELECTRODE E70-18, 18, 0028 SHOP CONN: WELDED FIELD CONN: BOLTED HOLES: 1/8" PAINT: RED LEAD PER MAINE SPEC'S SPECIAL CLEANING: BLAST CLEAN APPROVED: 3-9-71							
STRINGER DETAILS (S14-S24-S34-S44)							
PRINT DIST. E.A. 2-18-71 2 STATE 3-11-71 0 BREWER 3-11-71 0 COST 3-17-71 2							
Bancroft & Martin Inc. South Portland, Maine 04106							
JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE CUSTOMER: NORMAN E. JACKSON DESIGNER: MAINE SHC BRIDGE DIV. ORDER NO. JOB NO. DRAWING NO. 370-437 D-4							
REV. CHECKED 2-16-71 PAM. DRAWN 1-4-71 RKC							



ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG



SECTION TAKEN LOOKING DOWN AT TOP OF WEB



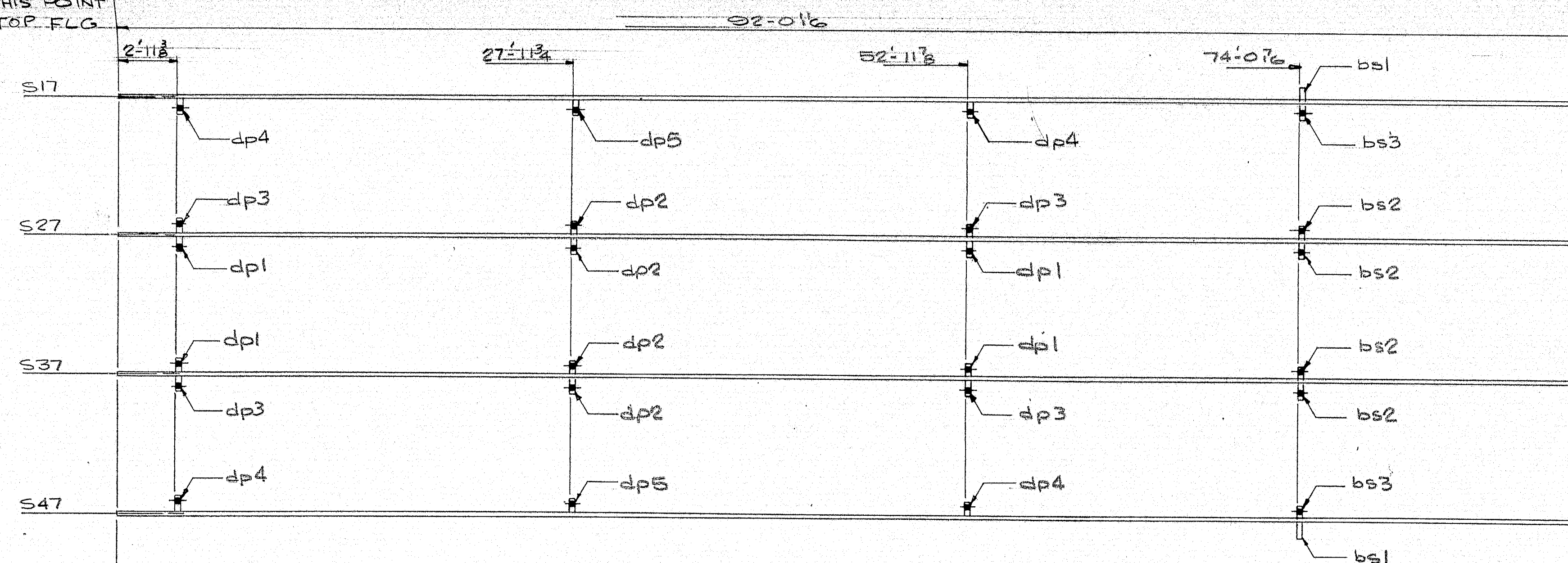
SHEAR CONNECTOR LAY OUT

S1G, S2G, S3G, & S4G
ONE EACH REQ'D
Any Nat. Camber Up.

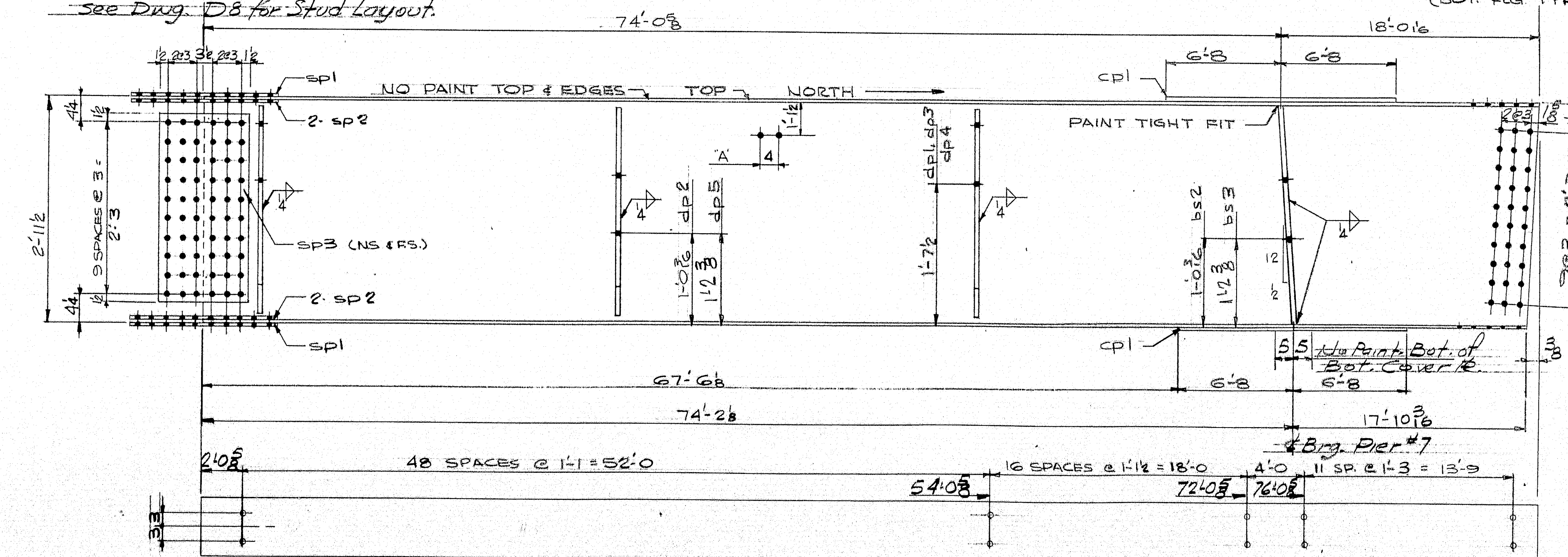
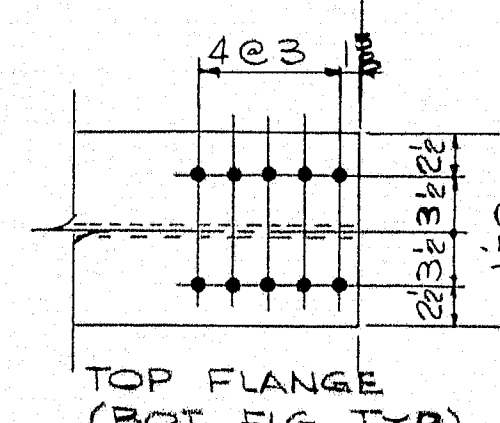
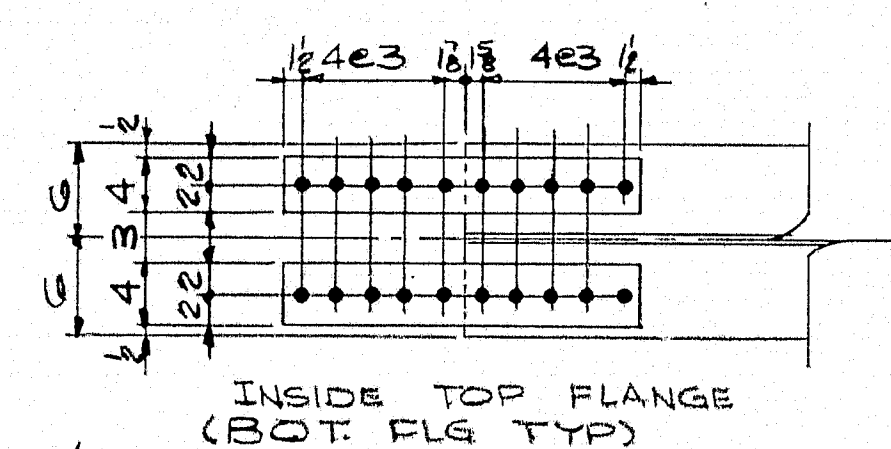
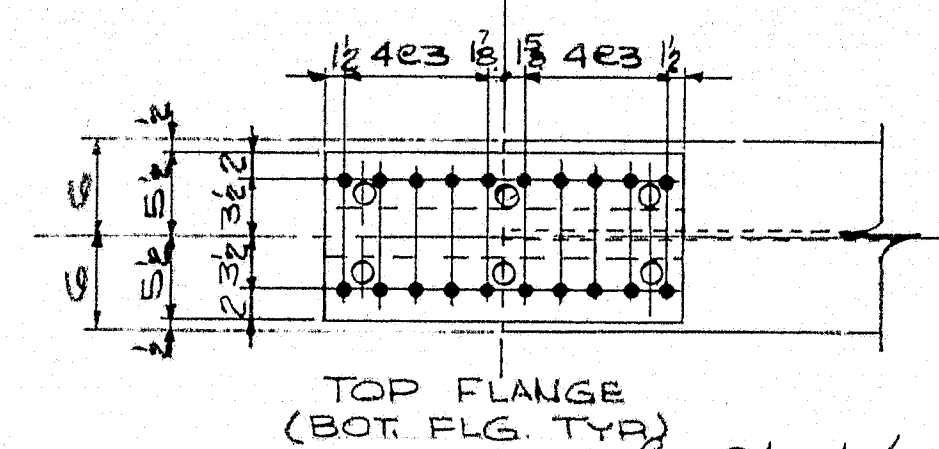
NOTE:
FOR COVER R DETAIL
SEE DWG N° D-1

SHIP		BILL OF MATERIAL		JOB NO. 870-437		DWG. NO. D-2	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
S1G	1		W36 x 135	92' 0"		2	
S2G	1		Do	92' 0"		2	
S3G	1		Do	92' 0"		2	
S4G	1		Do	92' 0"		2	
	8	CP2	2 1/2" x 10	13' 4"		8	
	4	dp1	BAR 6 x 3/8	2' 7"		12	ASTM A36
	4	dp2	Do	2' 7"		1	Do
	4	dp3	Do	2' 7"		1	Do
	4	dp4	Do	2' 7"		1	Do
	2	dp5	Do	2' 7"		12	Do
	2	bs1	BAR 6 x 3/8	2' 9 3/8"		11	ASTM A36
	4	bs2	Do	2' 9 3/8"		11	Do
	2	bs3	Do	2' 9 3/8"		11	Do
	8	sp1	2 1/2" x 11	2' 6 1/2"		5	
	16	sp2	BAR 4 x 3/4	2' 6 1/2"		6	
	8	sp3	2 1/2" x 18 1/2	2' 6"		4	
	656	SHOP	7/16" SHEAR CONN.	0' 5"			ITEM N° 505.08
HOLES ARE FOR HIGH TENSILE BOLTS They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.							
P202, N° 2253 (CEP N° 284 D2-A 244) ITEM N° 504.70 Unless Noted							
STEEL: ASTM A 572 GRADE 45 & AS NOTED WELDING ELECTRODE E70.16, 18, or 28 SHOP CONN: WELDED FIELD CONN: BOLTED HOLES: 1/8" + PAINT: RED LEAD PER MAINE SPEC'S SPECIAL CLEANING: BLAST CLEAN APPROVED: 3-5-71							
STRINGER DETAILS (S1G-S2G-S3G-S4G)							
PRINT DIST. F.A. 2-18-71 2 STATE 3-11-71 6 BREWSTER 3-11-71 15 SEP 71 JUST 3-12-71 2				Bancroft & Martin Inc. South Portland, Maine 04106 JOB: MACHIAS RIVER BRIDGE EAST MACHIAS, MAINE CUSTOMER: NORMAN E. JACKSON DESIGNER: MAINE SHC BRIDGE DIV.			
REV. CHECKED 2-16-71 PAM. DRAWN 1-5-71 RKC				ORDER NO. JOB NO. DRAWING NO. B70-437 D-2			

ALL EXTENSIONS
FROM THIS POINT
ALONG TOP FLG.



SECTION TAKEN LOOKING DOWN AT TOP OF WEB



SHEAR CONNECTOR LAY OUT

S17, S27, S37, & S47
ONE EACH REQ'D

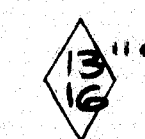
Any Nat. Camber Up

NOTE:
FOR COVER R DETAIL
SEE DWG. N-1

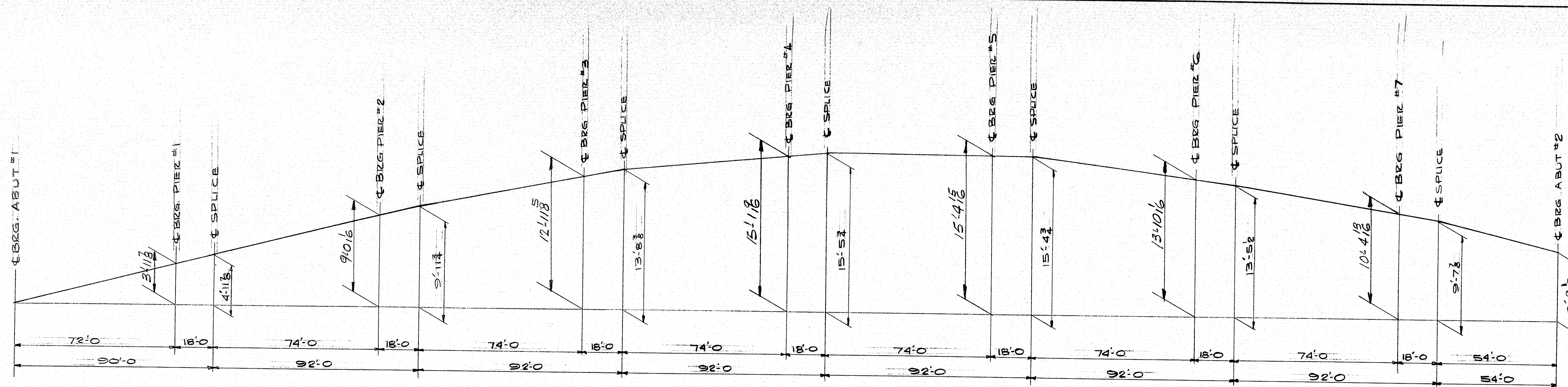
1'
2'-0
3'-0
4'-0
5'-0
6'-0
7'-0
8'-0
9'-0
10'-0
11'-0
12'-0
13'-0
14'-0
15'-0
16'-0
17'-0
18'-0
19'-0
20'-0

HOLES ARE FOR HIGH TENSILE BOLTS
They are to be free from burrs
and shall not be painted on any
surface within 5" of hole.

SHIP		BILL OF MATERIAL			JOB NO. 370-437		DWG. NO. D-7	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS	
S17	1		W36 X 135	92' 0 1/2"		2		
S27	1		D _o	92' 0 1/2"		2		
S37	1		D _o	92' 0 1/2"		2		
S47	1		D _o	92' 0 1/2"		2		
	8	SP1	PL 1/2 x 10	13	4	7		
	4	dp1	BAR 6 x 8	2	7	1/2	ASTM A36	
	4	dp2	D _o	2	7	1	D _o	
	4	dp3	D _o	2	7	1	D _o	
	4	dp4	D _o	2	7	1	D _o	
	2	dp5	D _o	2	7	1/2	D _o	
	2	bs1	BAR 6 x 8	2	8 1/2	1/2	ASTM A36	
	4	bs2	D _o	2	8 1/2	1/2	D _o	
	2	bs3	D _o	2	8 1/2	1/2	D _o	
	8	SP1	PL 1/2 x 11	2	6 1/2	5		
	16	SP2	BAR 4 x 3 1/2	2	6 1/2	6		
	8	SP3	PL 1/2 x 18 1/2	2	6	4		
	640	SHOP	7/8" SHEAR CONN.	0	5		ITEM N-50503	



125-170



BEAM SLOPES - ASSEMBLY DIAGRAM

Place any Nat. Camber Up.

NOTE

Vertical dim. @ $\frac{1}{2}$ of Brg's must be held,
dim. @ Field Splices may vary due to
natural camber.

APPR. AS NOTED 3.9.71

BEAM SLOPES & ASSEMBLY DIAG.			
PRINT DIST.			
FA	2-18-71	2	Bancroft & Martin Inc. South Portland 7, Maine
STATE	3-11-71	8	
BRW	3-11-71	158	
Cust	3-12-71	2	
JOB:			MACHIAS RIVER BRIDGE
CUSTOMER:			EAST MACHIAS, MAINE
DESIGNER:			NORMAN E. JACKSON
ORDER NO.			ME. S.H.C. BRIDGEDIV.
REV.			
CHECKED	2-16-71	PAM	
DRAWN	1-4-71	RKC	
JOB NO.		DRAWING NO.	
B70-437		D10	

125-171