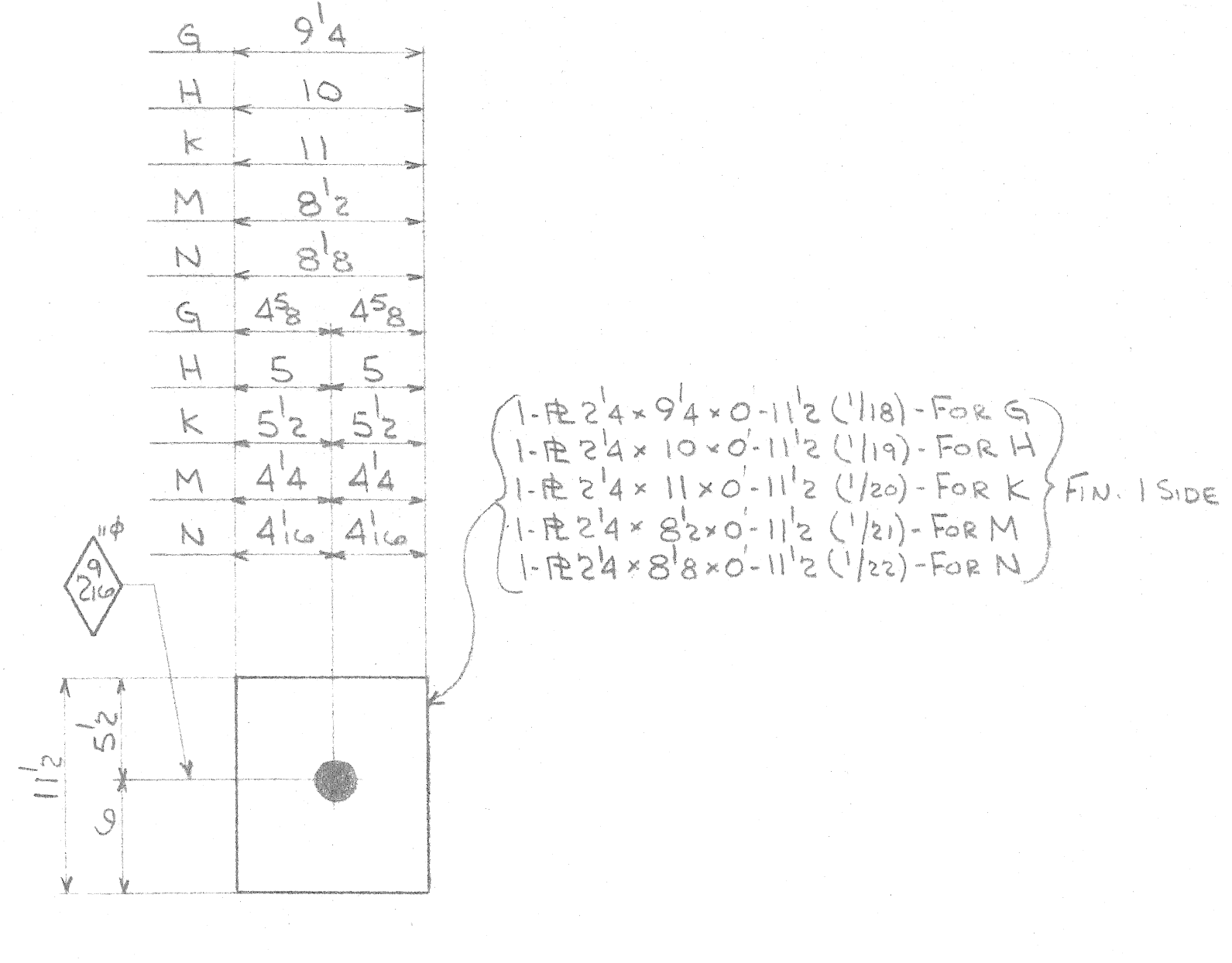


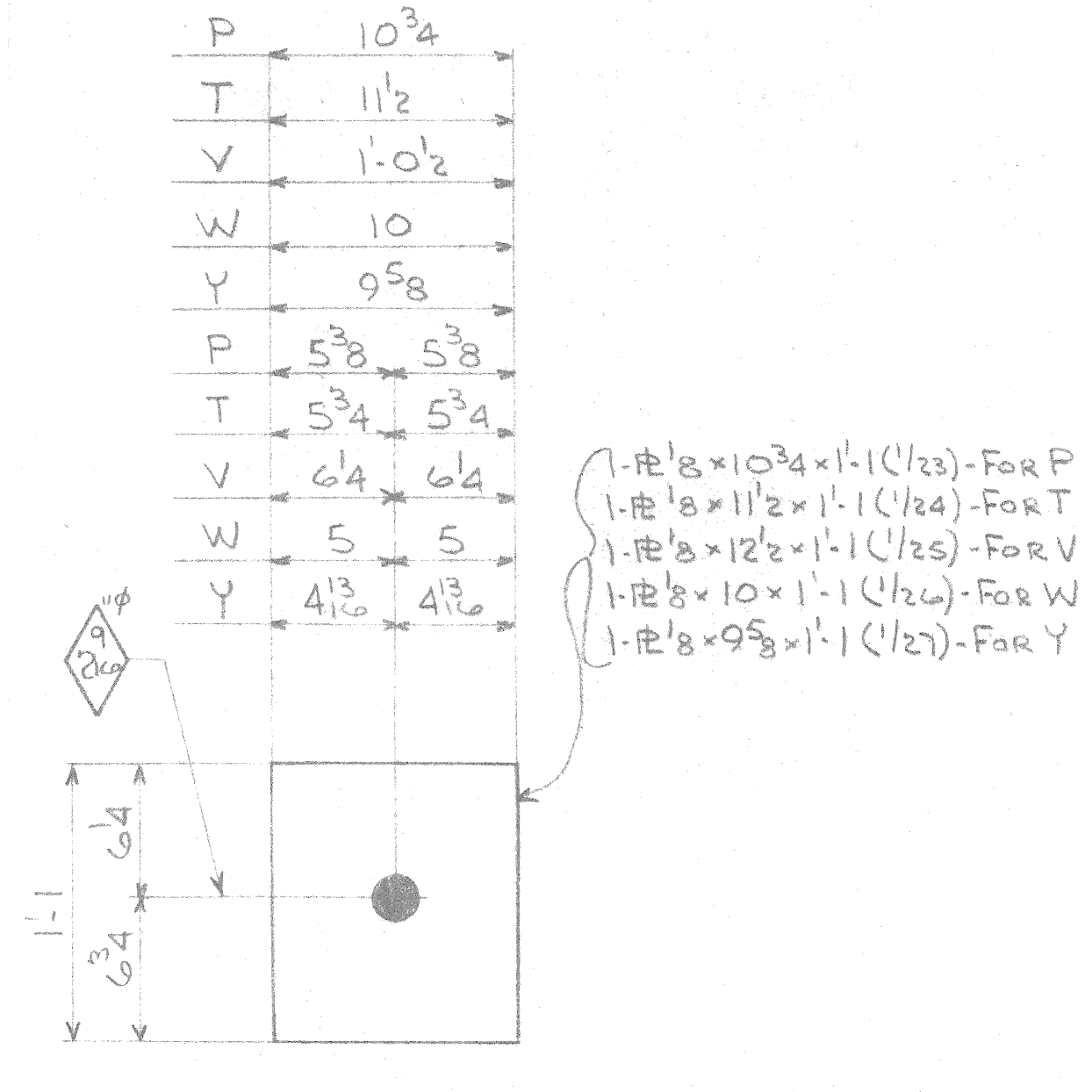
32 - SOLE REs - A1
32 - -B1
56 - -C1
16 - -D1
16 - do -E1

NO GALV. - PAINT WITH BEAMS

SHOP WELD TO BEAMS AS SHOWN ON SHTS. #3 & 4 & 5

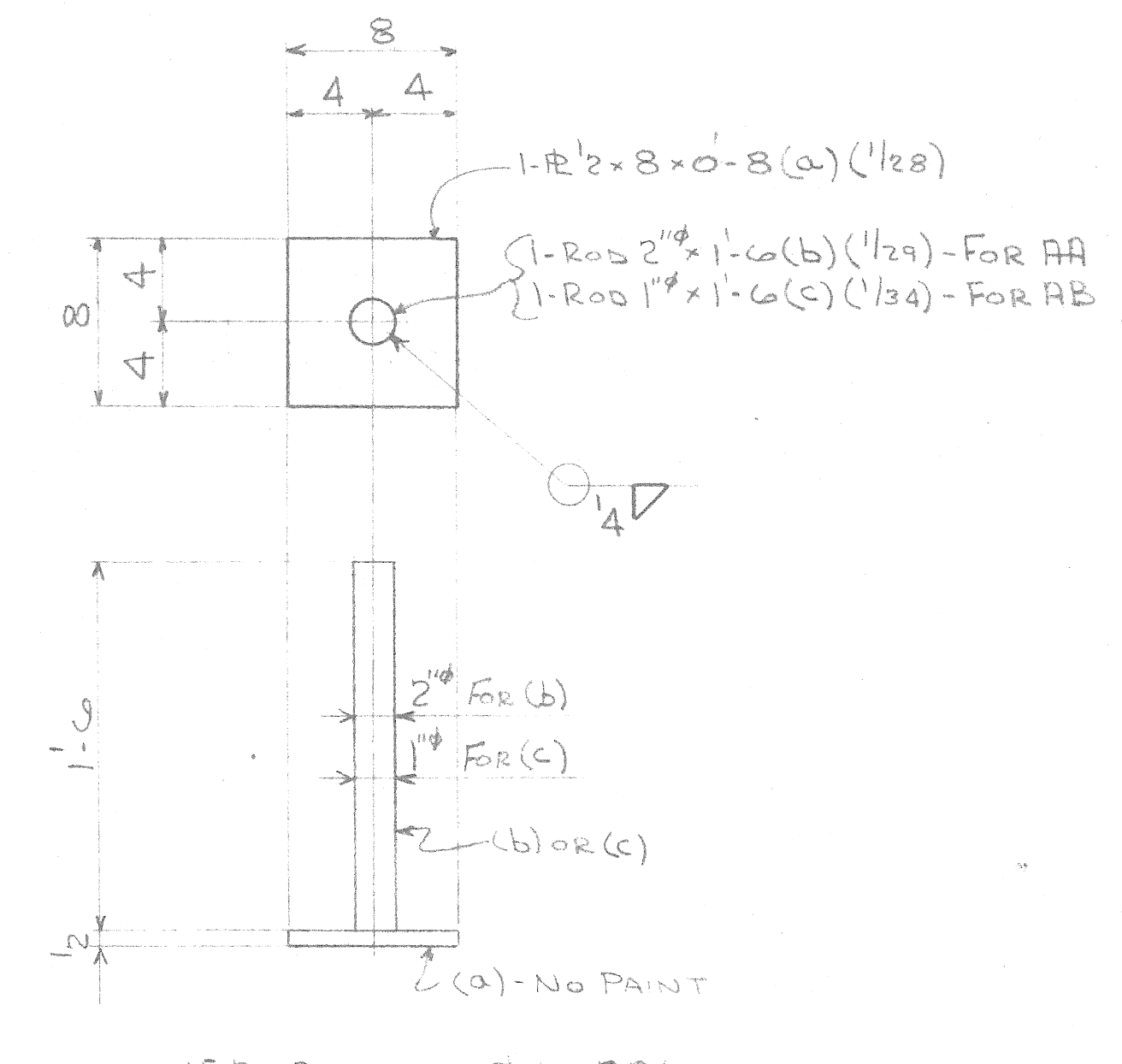


32 - MASONRY REs - G1
32 - -H1
56 - -K1
16 - -M1
16 - do -N1

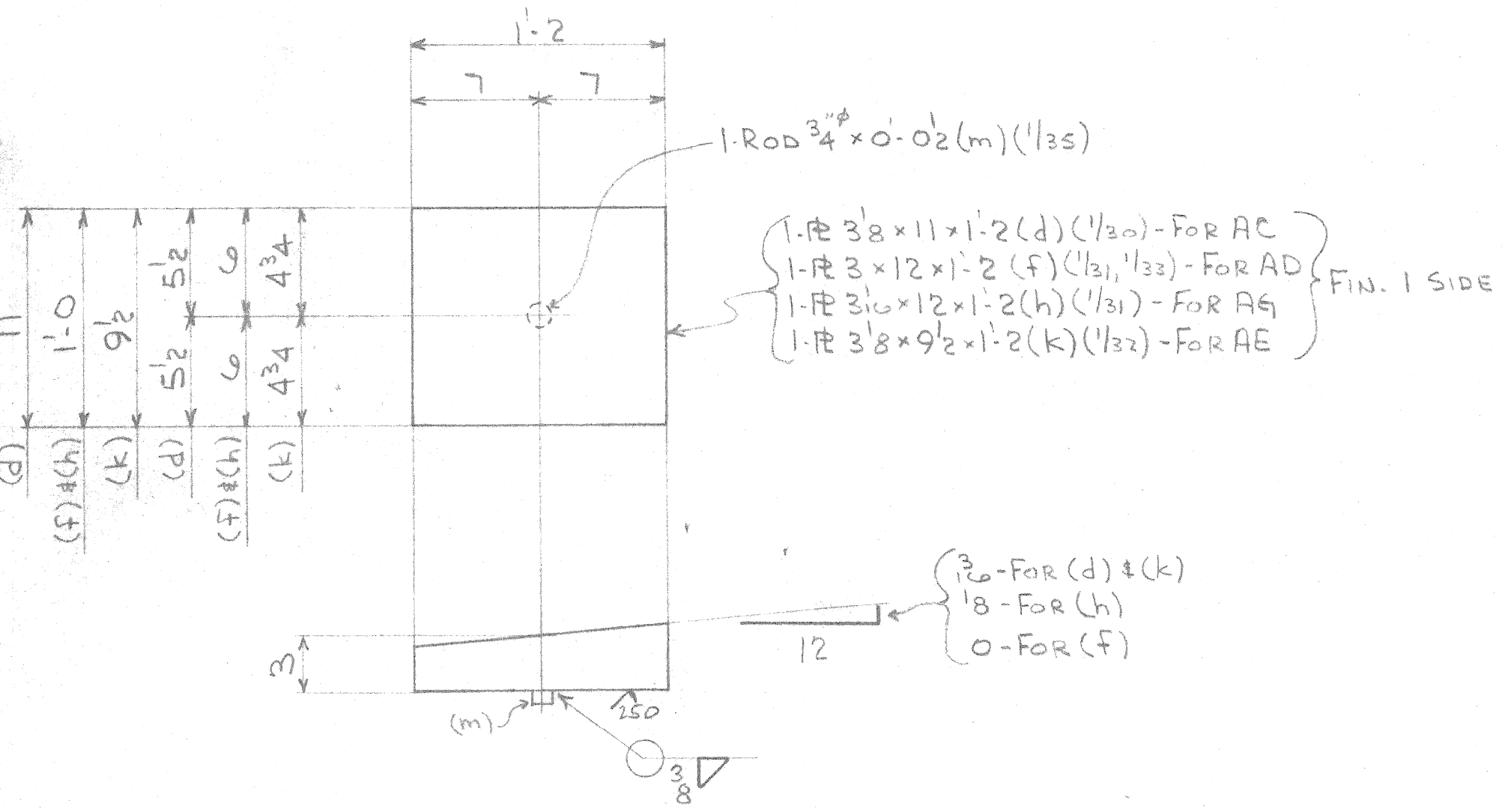


32 - LEAD REs - P1
32 - -T1
56 - -V1
16 - -W1
16 - do -Y1

NO PAINT, NO GALV.



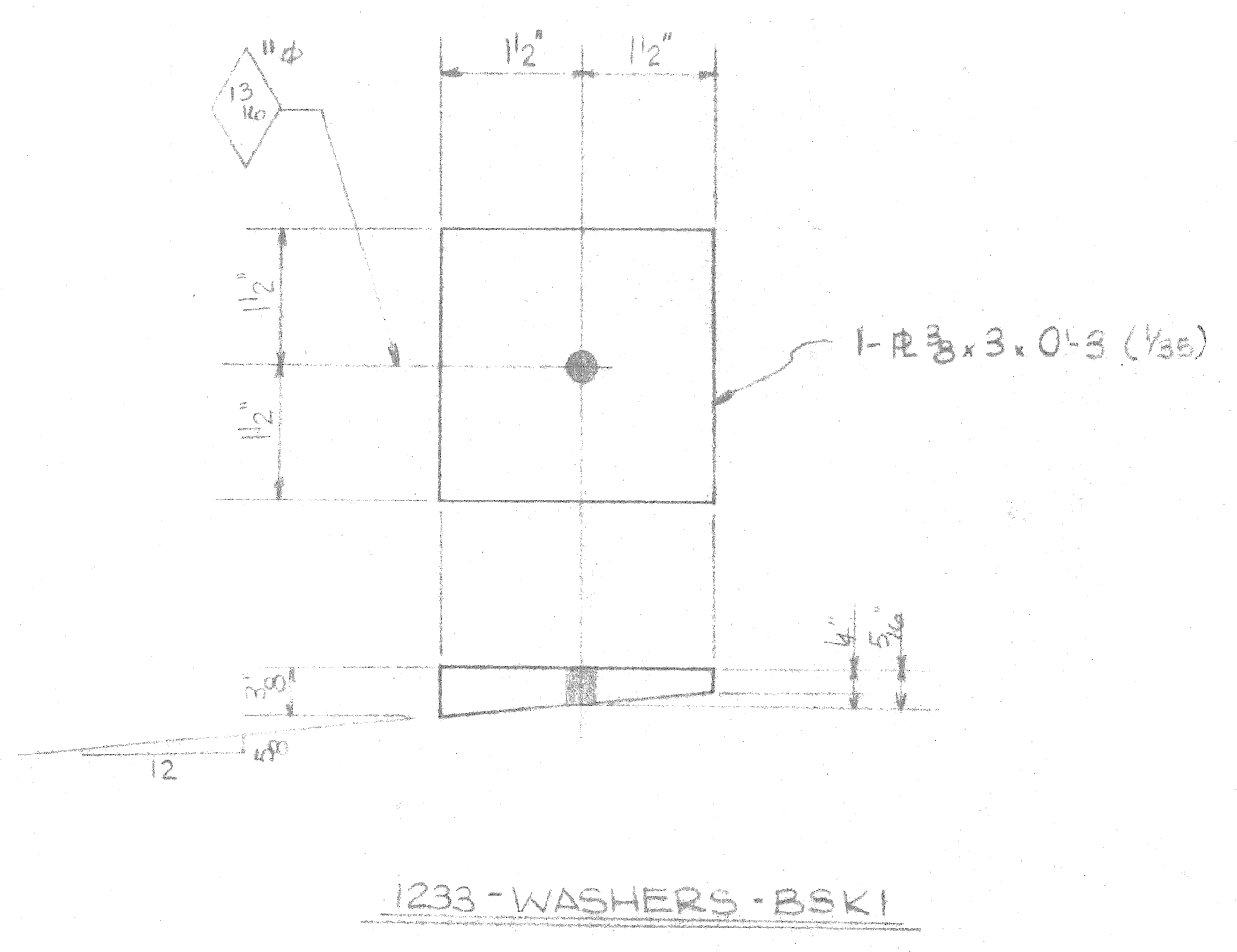
152 - POSITION REs - AA1
152 - do -AB1



64 - SOLE REs - A1
40 - -A1
16 - -A1
32 - do -A1

NO GALV. - PAINT WITH BEAMS

SHOP WELD TO BEAMS AS SHOWN ON SHTS. #3 & 4 & 5



BEARING NOTES

ALL BEARING MATERIAL SHALL BE A.S.T.M. A36, U.N.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP & ALL EDGES SMOOTH STRAIGHT AND VERTICAL.

ALL A36 STEEL SHALL BE BLAST CLEANED AFTER FABRICATION.

ALL FINISHED SURFACES SHALL BE FINISHED BY THE AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

G1, H1, K1, M1 & N1 SHALL BE GALV. IN ACCORDANCE WITH A.S.T.M. A123 AND PAINTED AS FOLLOWS.

BLAST ALL STL TO SP-10 EXCEPT AS NOTED. APPLY ONE COAT DIMETCOTE EZ-11 TO OBTAIN A 2 1/2 MIL D.F.T. ALL OPEN HOLES & AREAS TO BE WELDED SHALL BE PAINTED.

SPECIFIED SURFACE FINISH REQUIREMENTS APPLY BOTH BEFORE AND AFTER GALVANIZING.

PAINT AA1 & AB1 PER PAINT NOTE ON SHT. E2.

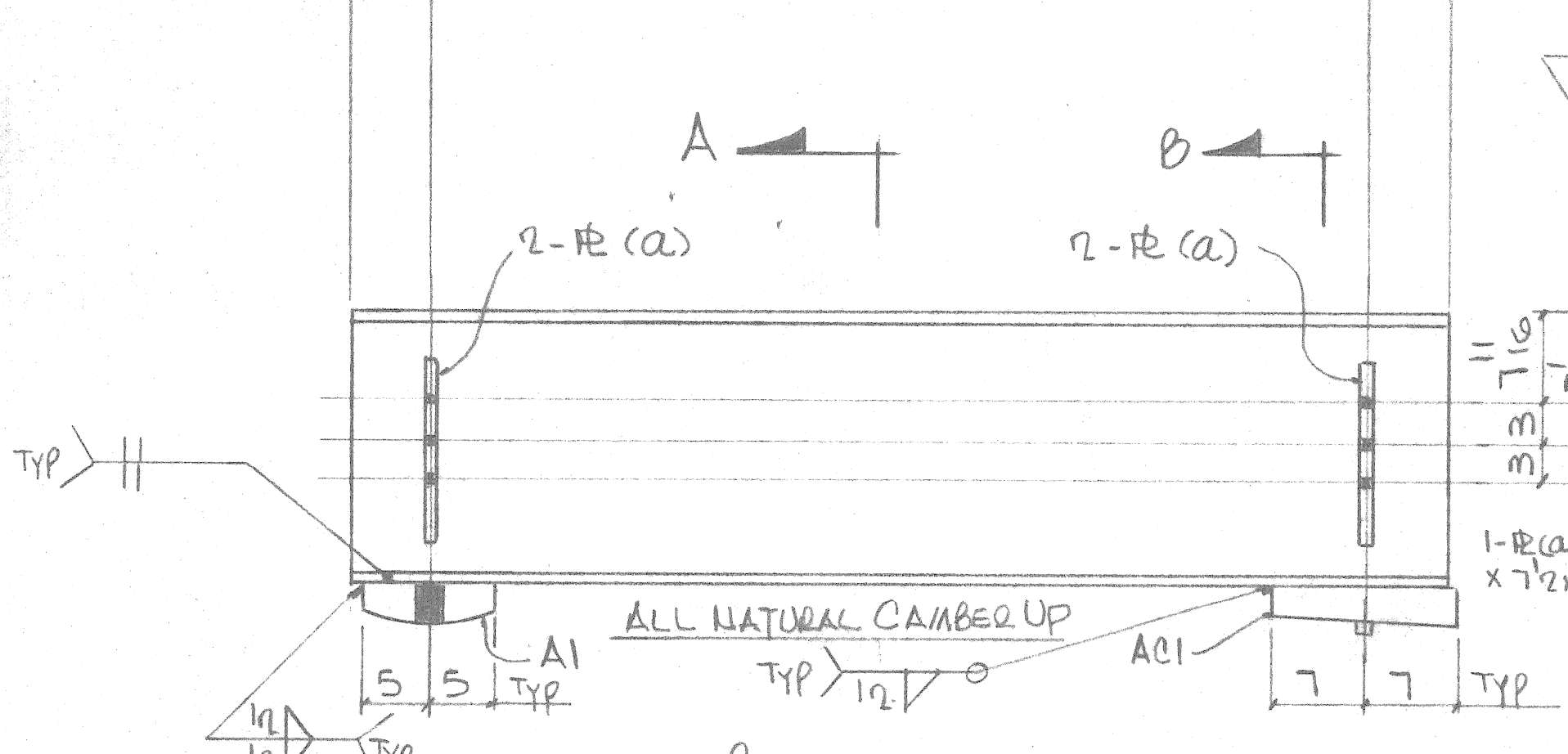
FOR GENERAL NOTES SEE SHT. E2.

APPROVED

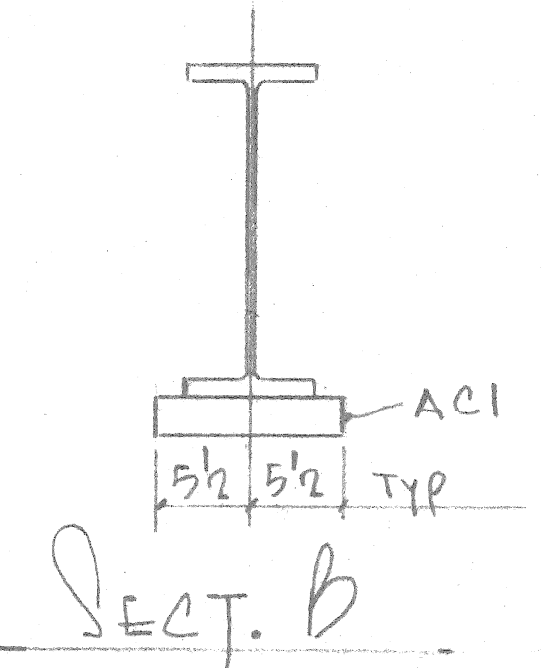
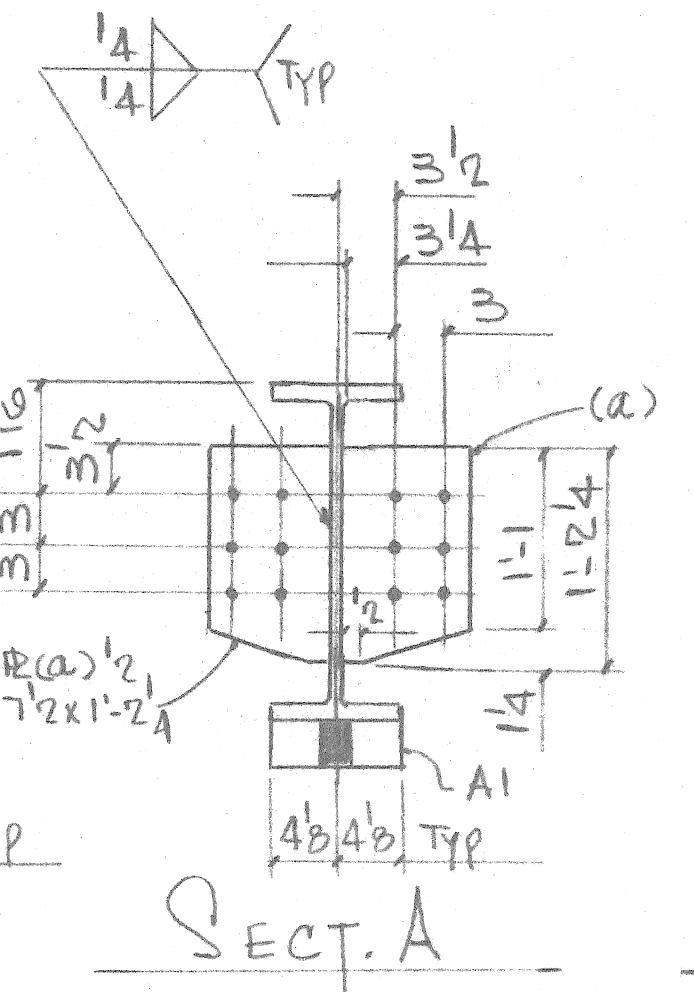
FIELD BOLT LIST								
FIELD U.S.B. NOT GALV.								
NO.	SHIP	ACT. CT.	DIA.	GRIP	BOLT TYPE	LEN. UNDER HEAD	HEAD NUT	REMARKS
36	32	3	4	A325	5/4	HEX HEX		
7314	7098	1			2 1/4			
465	448	1			2 1/6			1-REV WASH (SEE)
69	64	1			2 3/4			
135	128	1			3			
234	224	1			3 1/8			
201	192	1			3 3/8			
36	32	1			3 3/8			
36	32	1			4			
36	32	1			4 1/8			
36	32	1			4 1/2			
7314								STD. RD. HARDENED WASH. 1/2" DIA. HOLE

FOR LOCATION SEE SHT. E1			
4		8	
3		7	
2	2-13-84	FAB & DEL	6
1	1-17-84	APP'L	5
DATE	SENT FOR	DATE	SENT FOR
MUNSTER STEEL CO., INC. Fabricators of Structural and Miscellaneous Steel 9505 CALUMET AVE., MUNSTER, IND.			
CUSTOMER	JUTTON - KELLY		
HOLES AS NOTED		CONTRACT No.	SHIT. No.
PAINT AS NOTED		1996	1
DRAWN BY 1/6 DEC 84	CHECKED BY 1/13 DEC 84	BEARINGS	

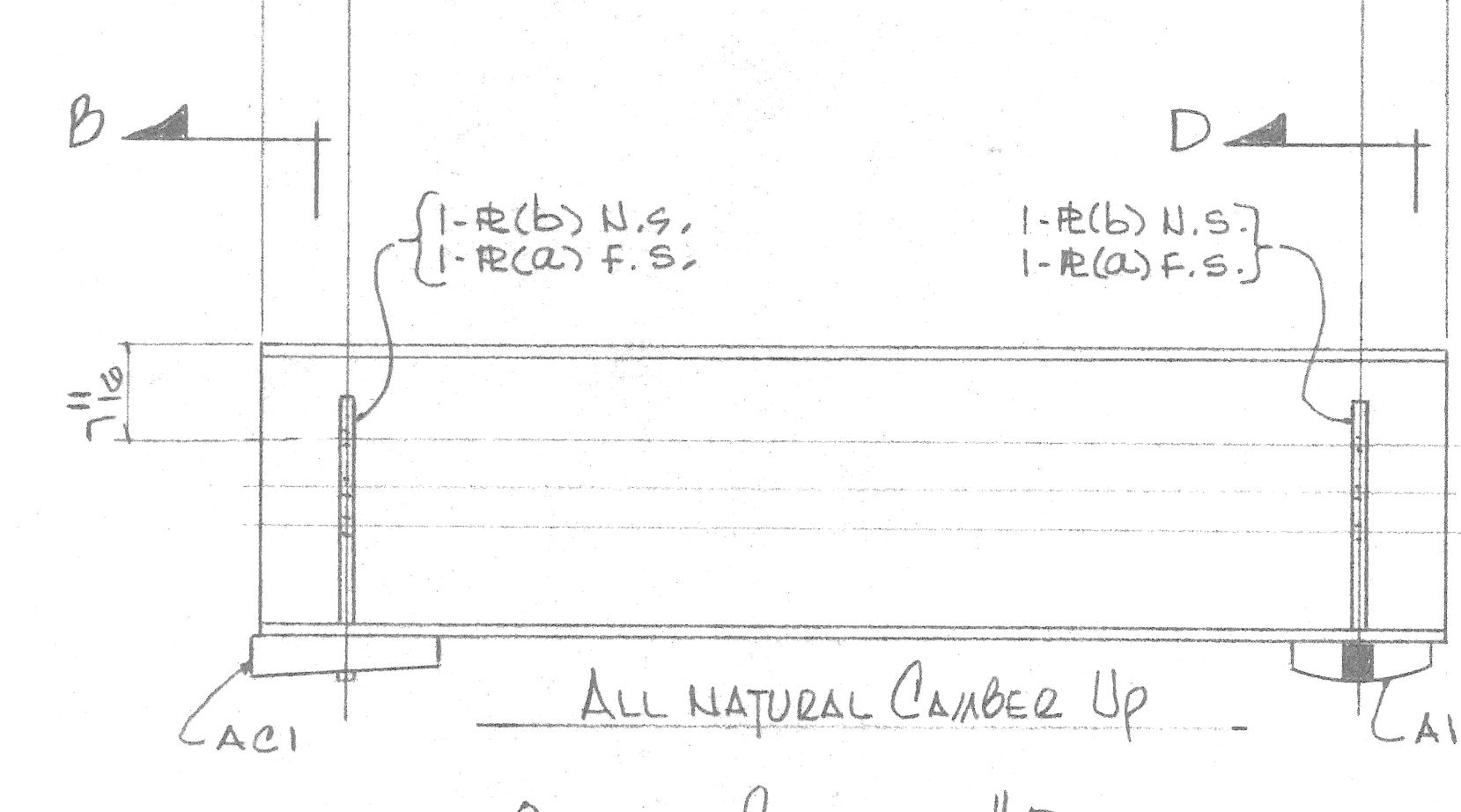
FOR A	6	18'-4 3/4 (W21x68x19'-4 3/4)	1/2	6
FOR F	6	17'-2 3/4 (W21x68x18'-2 3/4)	1/7	6
FOR G	6	16'-0 3/8 (W21x68x17'-0 3/8)	1/8	6



- 10 - BEAMS - A3
- 5 - BEAMS - G3
- 5 - BEAMS - F3

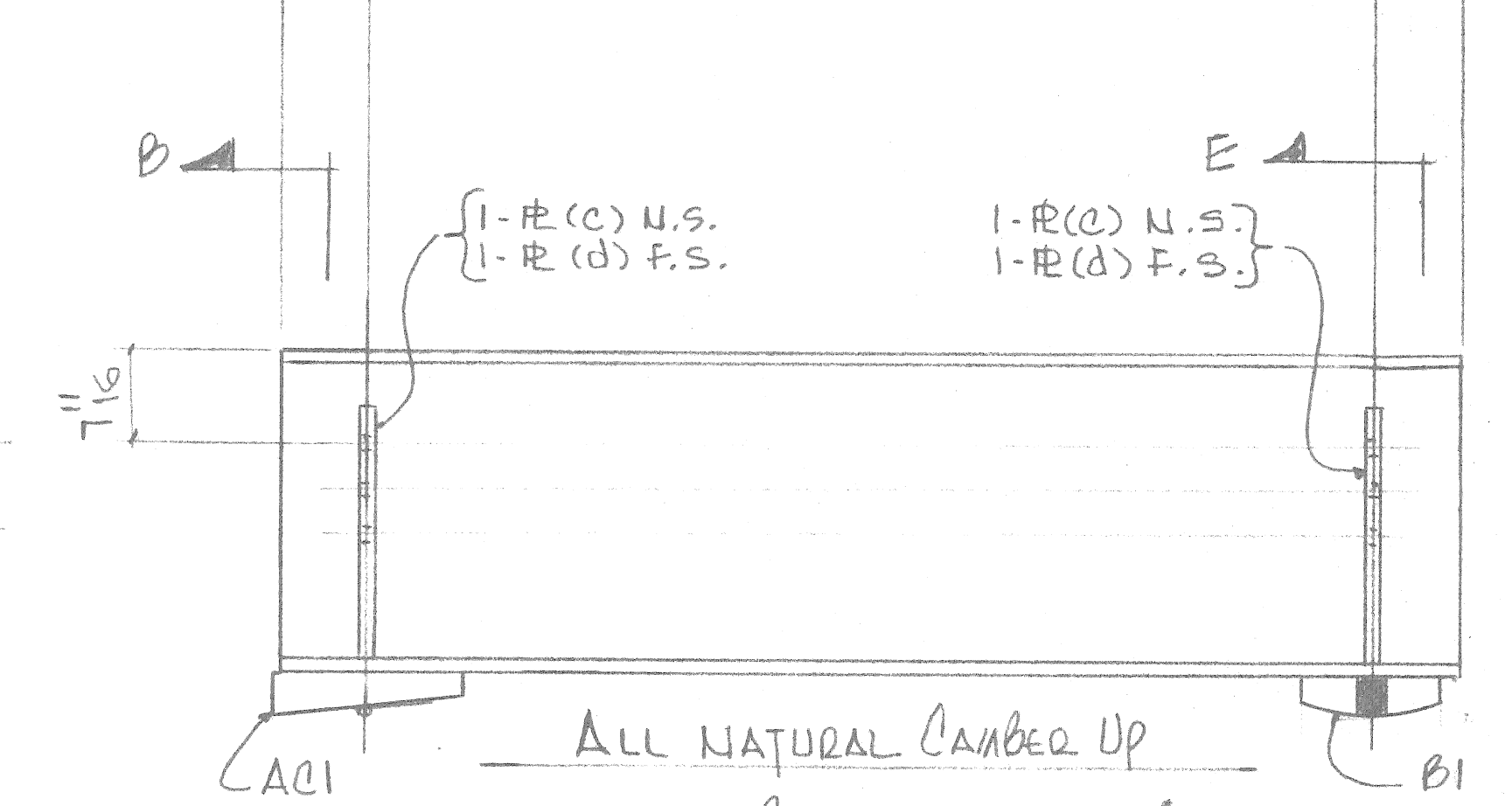


FOR N	6	17'-2 3/4 (W21x68x18'-2 3/4)	1/7	6
FOR P	6	16'-0 3/8 (W21x68x17'-0 3/8)	1/8	6
FOR M	6	18'-4 3/4 (W21x68x19'-4 3/4)	1/2	6



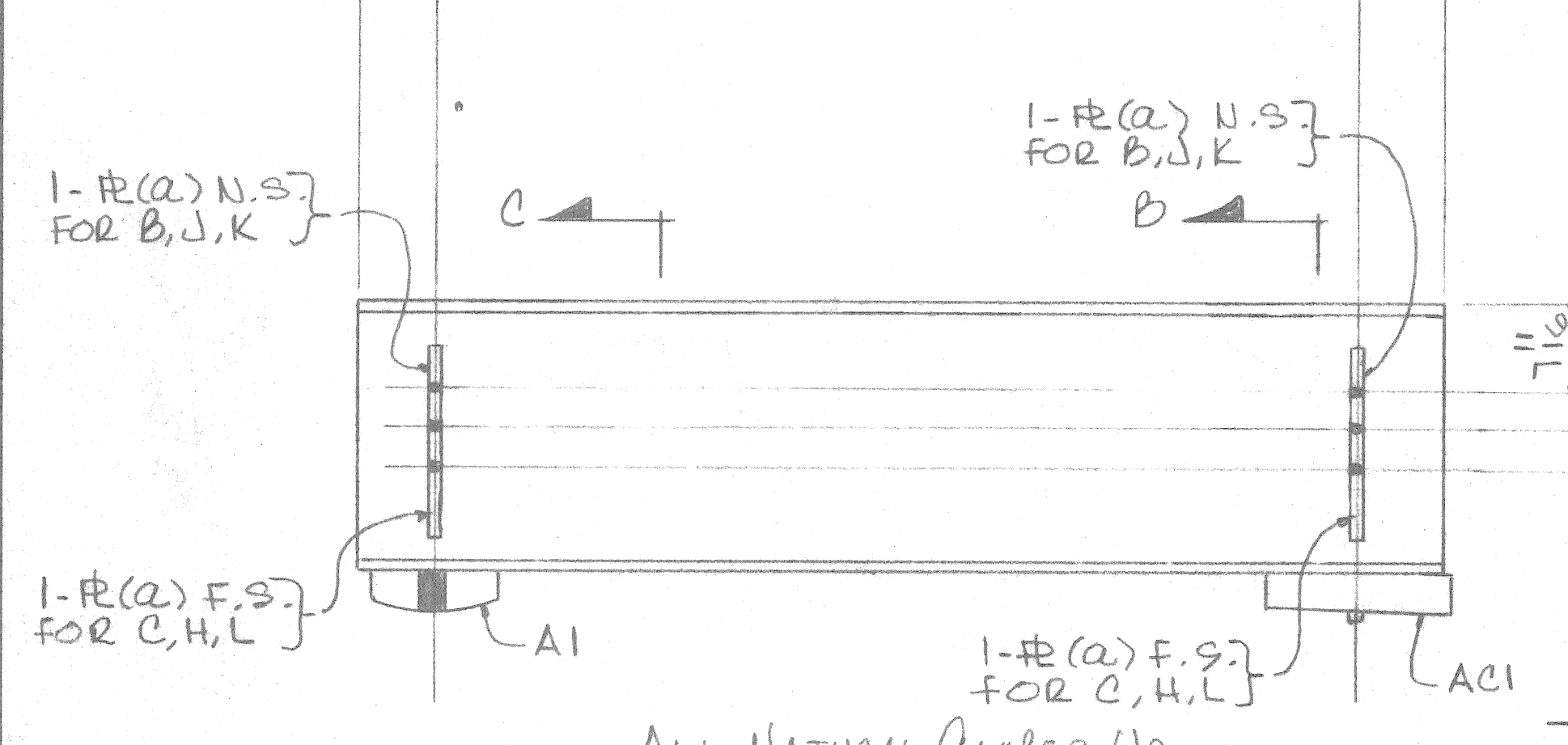
- ONE - BEAM - M3
- ONE - BEAM - N3
- ONE - BEAM - P3

FOR AB	6	20'-10 (W24x76x21'-10)	1/4	6
FOR AC	6	19'-7 1/4 (W24x76x20'-7 1/4)	1/3	6

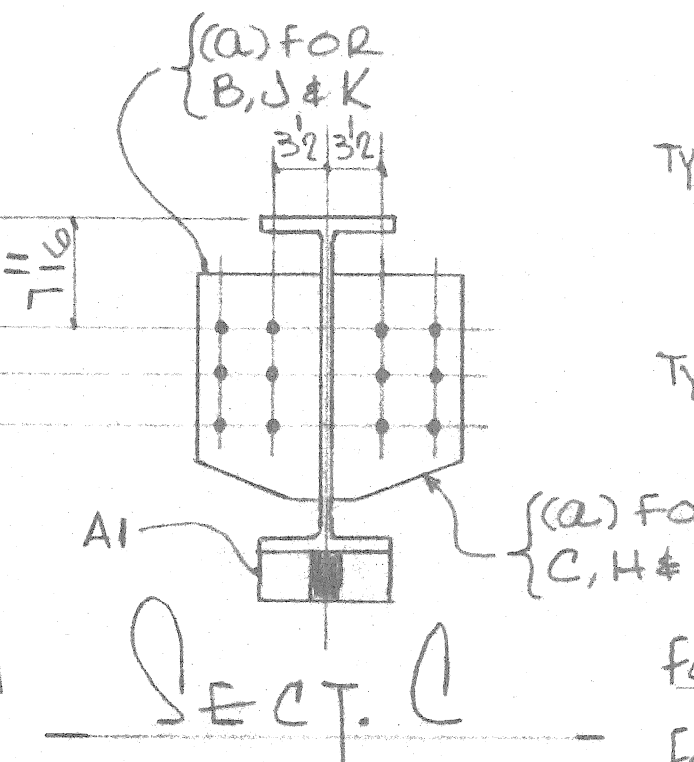


- ONE - BEAM - AB3
- ONE - BEAM - AC3

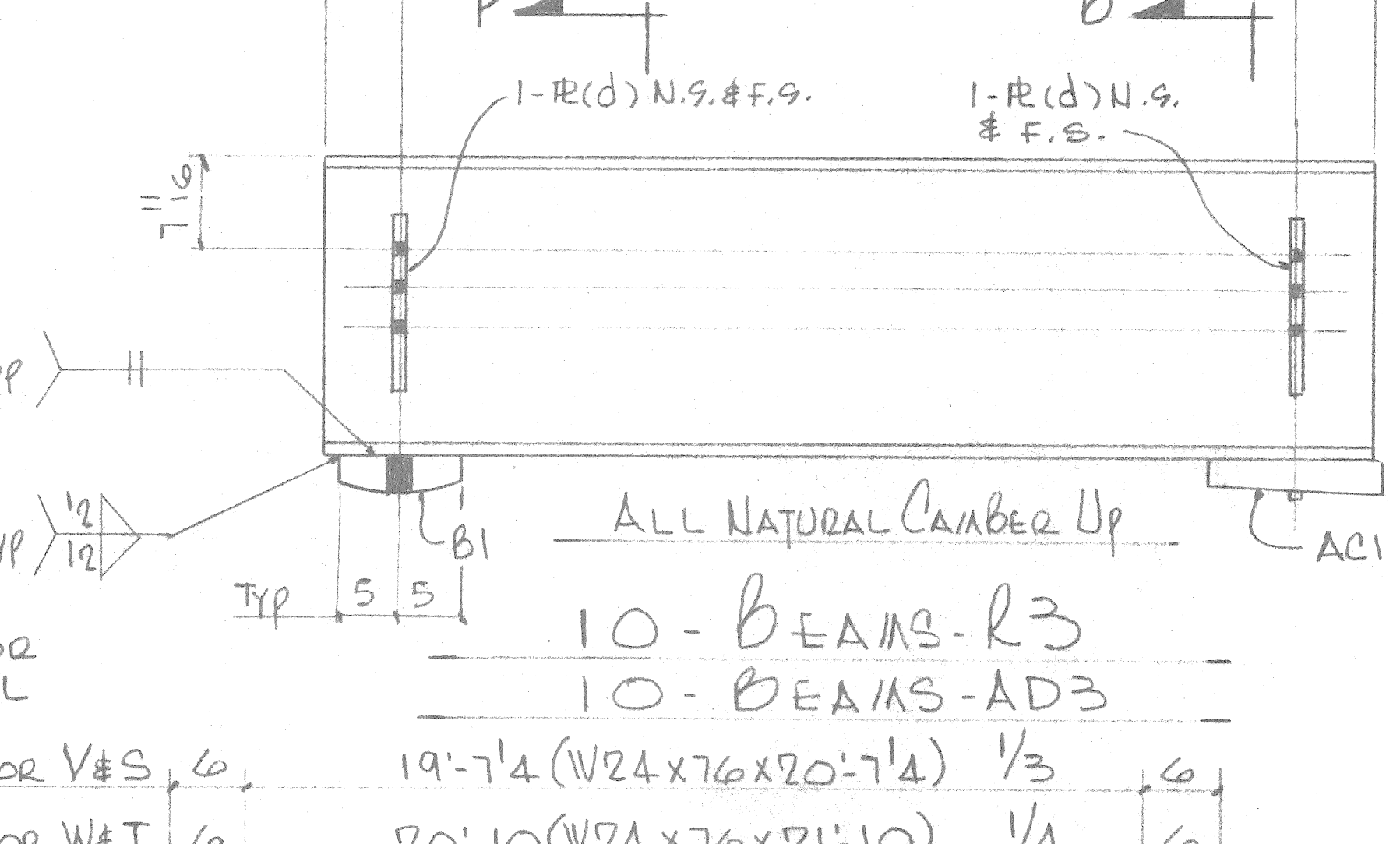
FOR B#L	6	18'-4 3/4 (W21x68x19'-4 3/4)	1/2	6
FOR H#J	6	17'-2 3/4 (W21x68x18'-2 3/4)	1/7	6
FOR K#L	6	16'-0 3/8 (W21x68x17'-0 3/8)	1/8	6



- 2 - BEAMS - B3
- 2 - BEAMS - C3
- ONE - BEAM - H3
- ONE - BEAM - J3
- ONE - BEAM - K3
- ONE - BEAM - L3

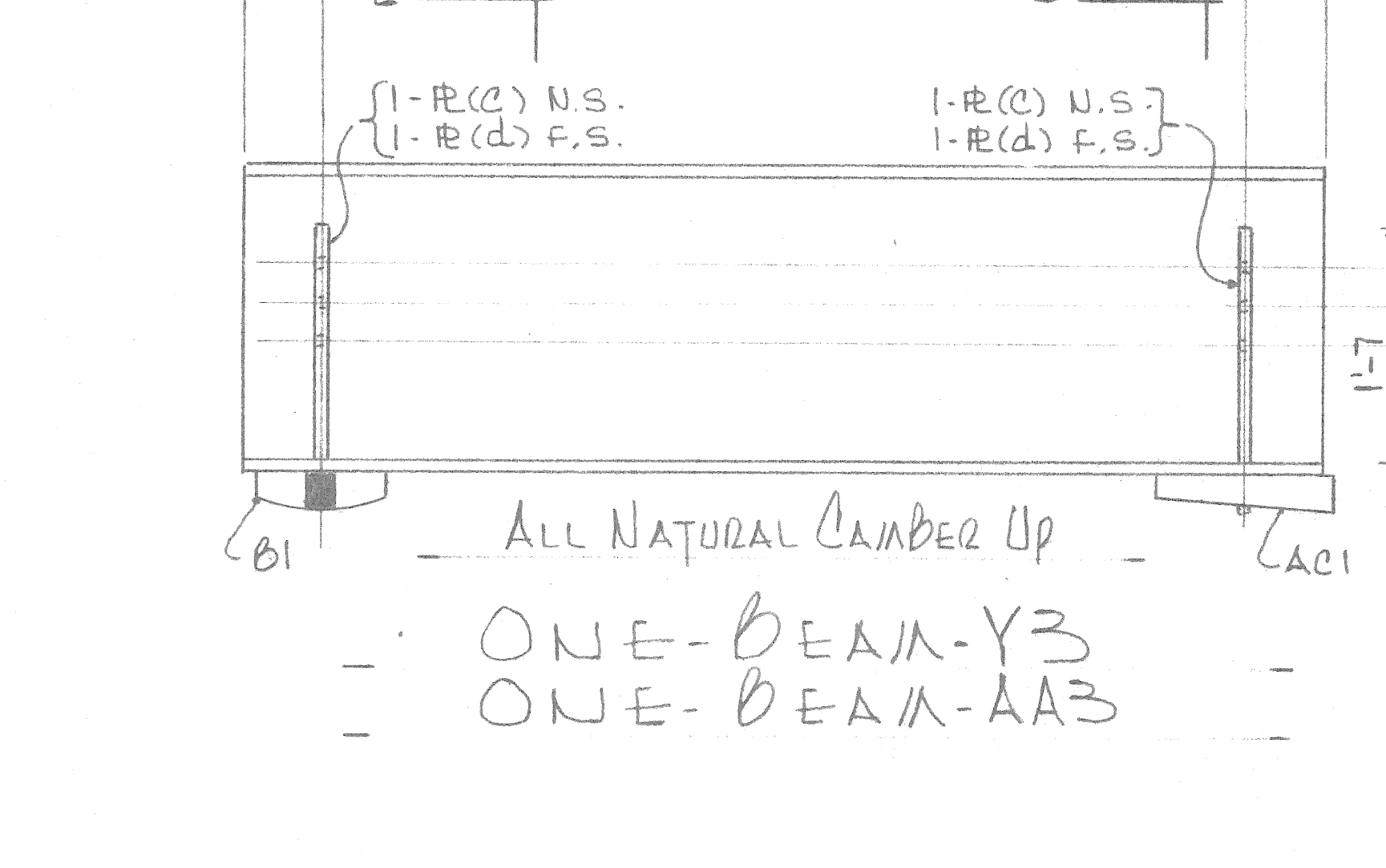


FOR R	6	19'-7 1/4 (W24x76x20'-7 1/4)	1/3	6
FOR AD	6	20'-10 (W24x76x21'-10)	1/4	6

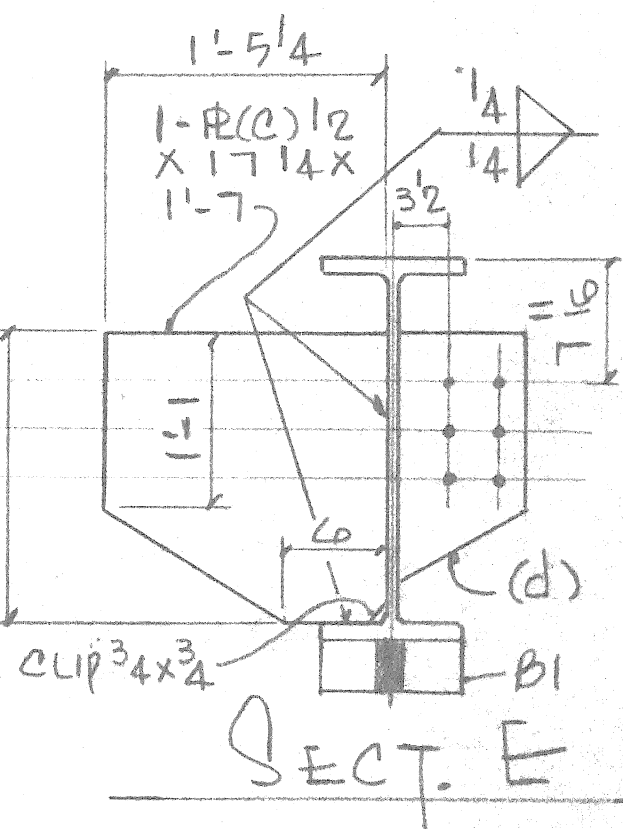


- 10 - BEAMS - R3
- 10 - BEAMS - AD3

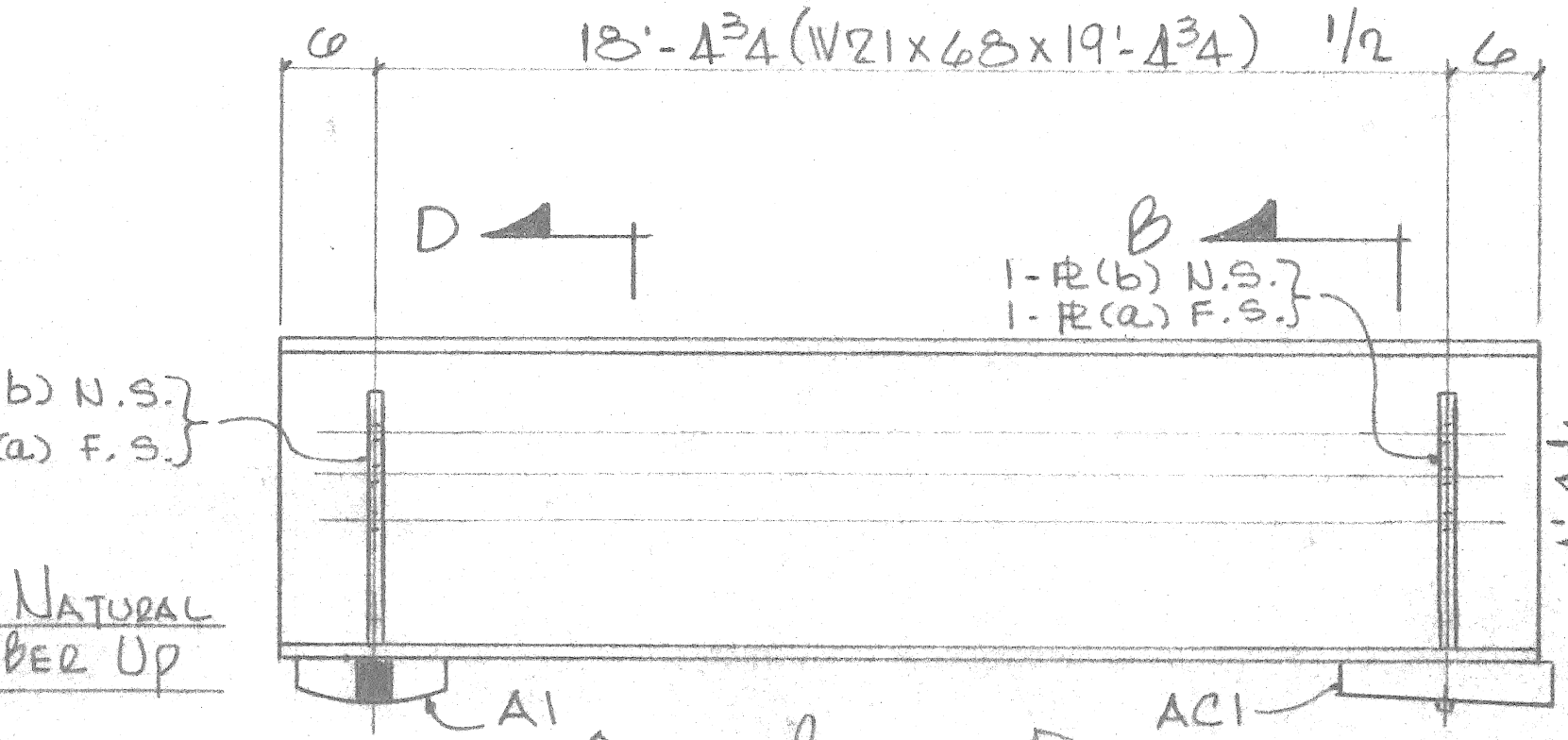
FOR Y	6	19'-7 1/4 (W24x76x20'-7 1/4)	1/3	6
FOR AA	6	20'-10 (W24x76x21'-10)	1/4	6



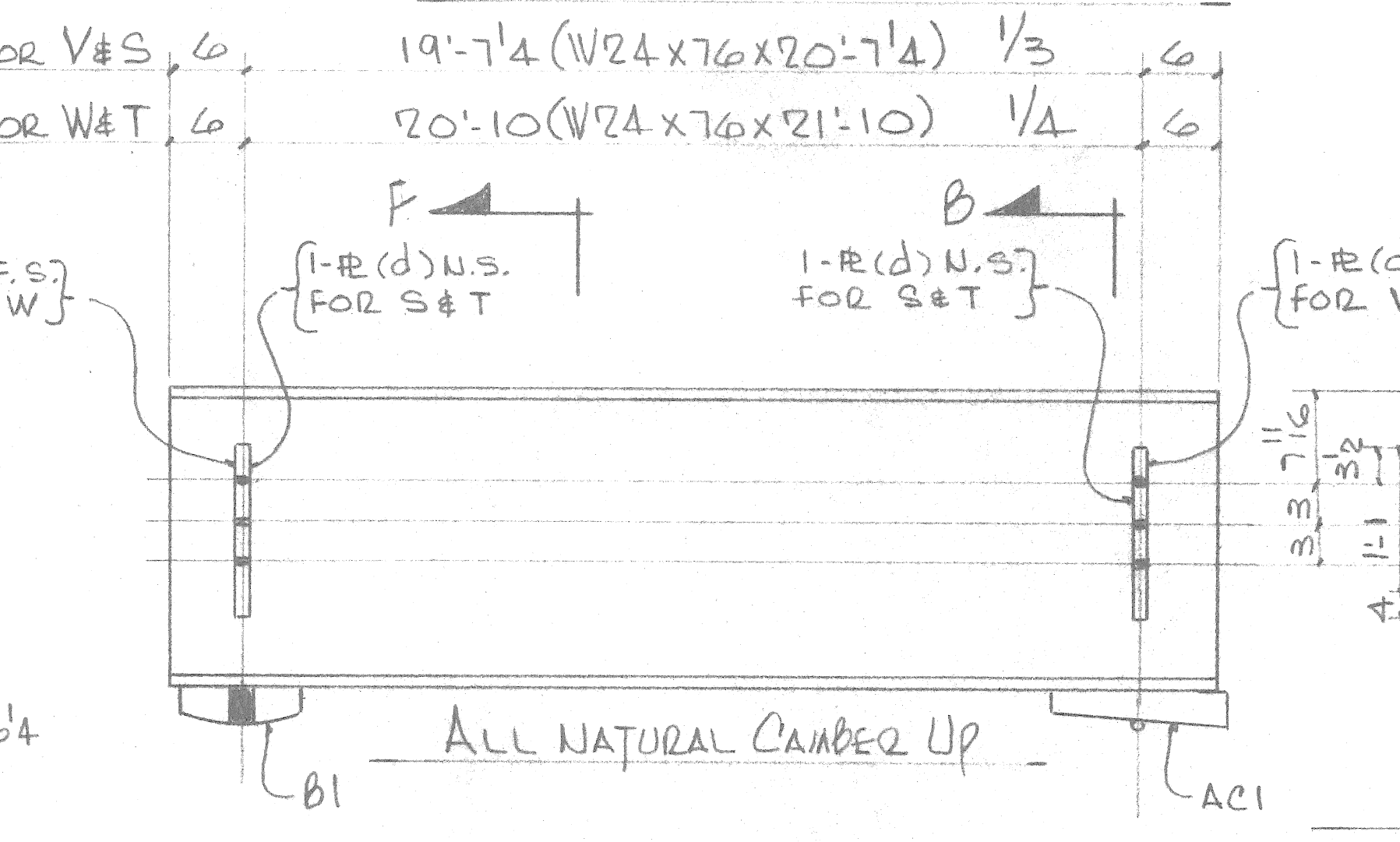
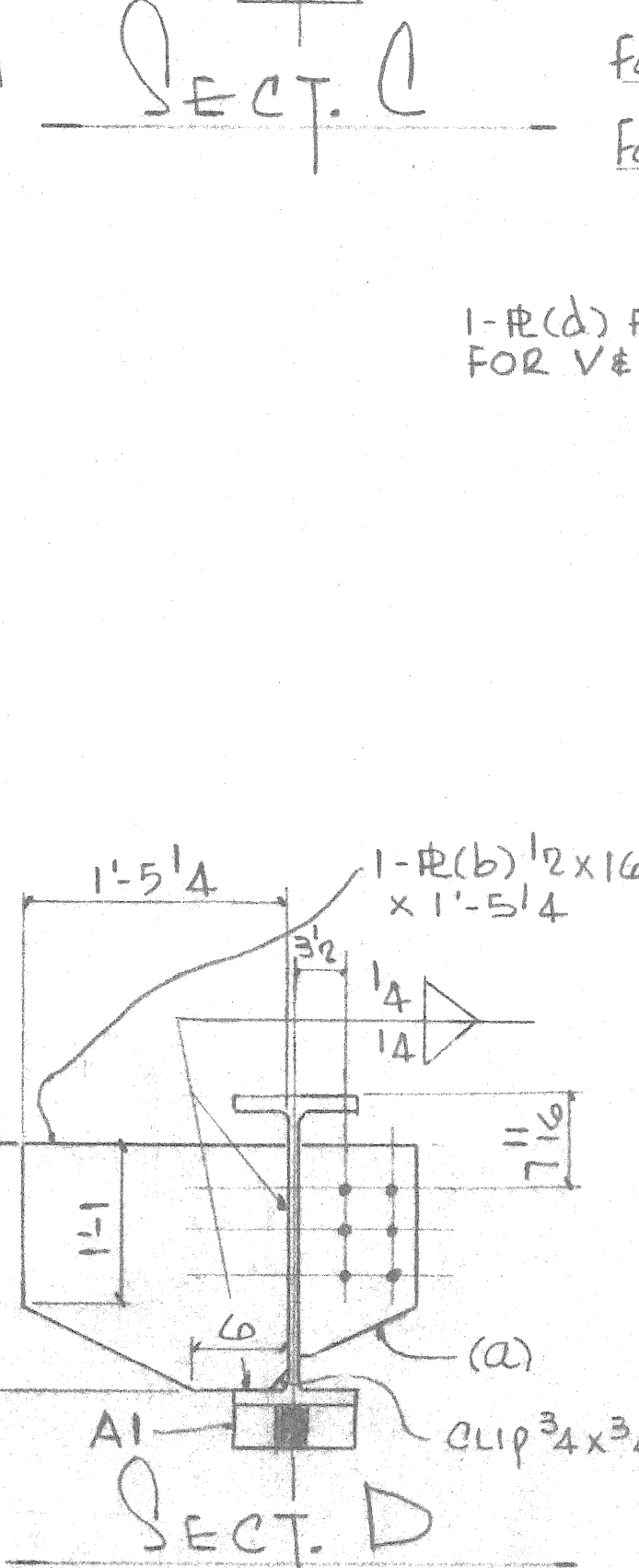
- ONE - BEAM - Y3
- ONE - BEAM - AA3



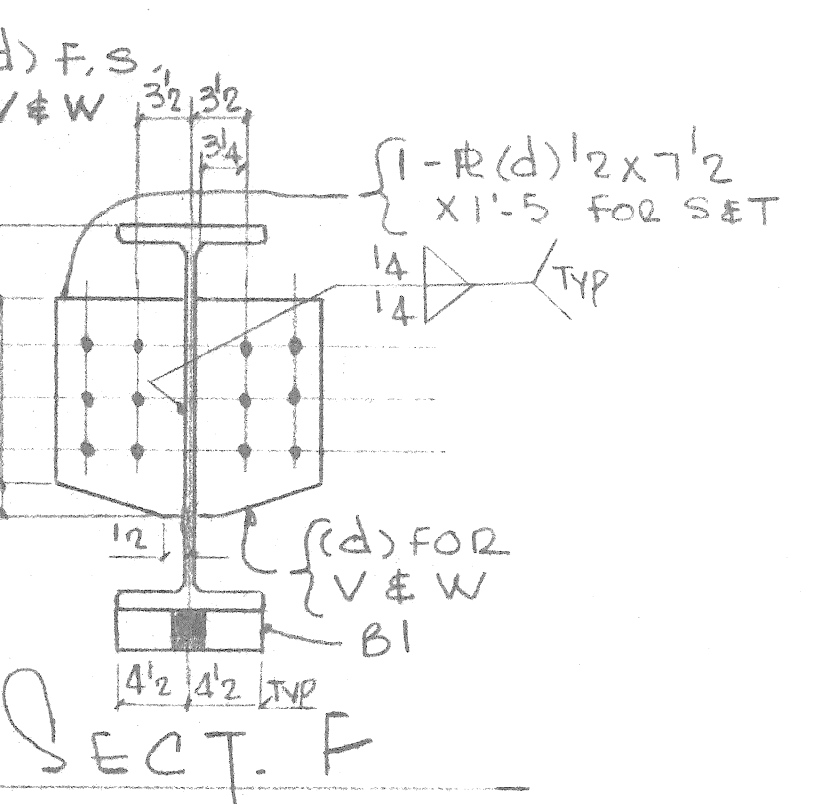
FOR V#S	6	19'-7 1/4 (W24x76x20'-7 1/4)	1/3	6
FOR W#T	6	20'-10 (W24x76x21'-10)	1/4	6



- 2 - BEAMS - S3
- 2 - BEAMS - T3
- 2 - BEAMS - V3
- 2 - BEAMS - W3



- 2 - BEAMS - S3
- 2 - BEAMS - T3
- 2 - BEAMS - V3
- 2 - BEAMS - W3

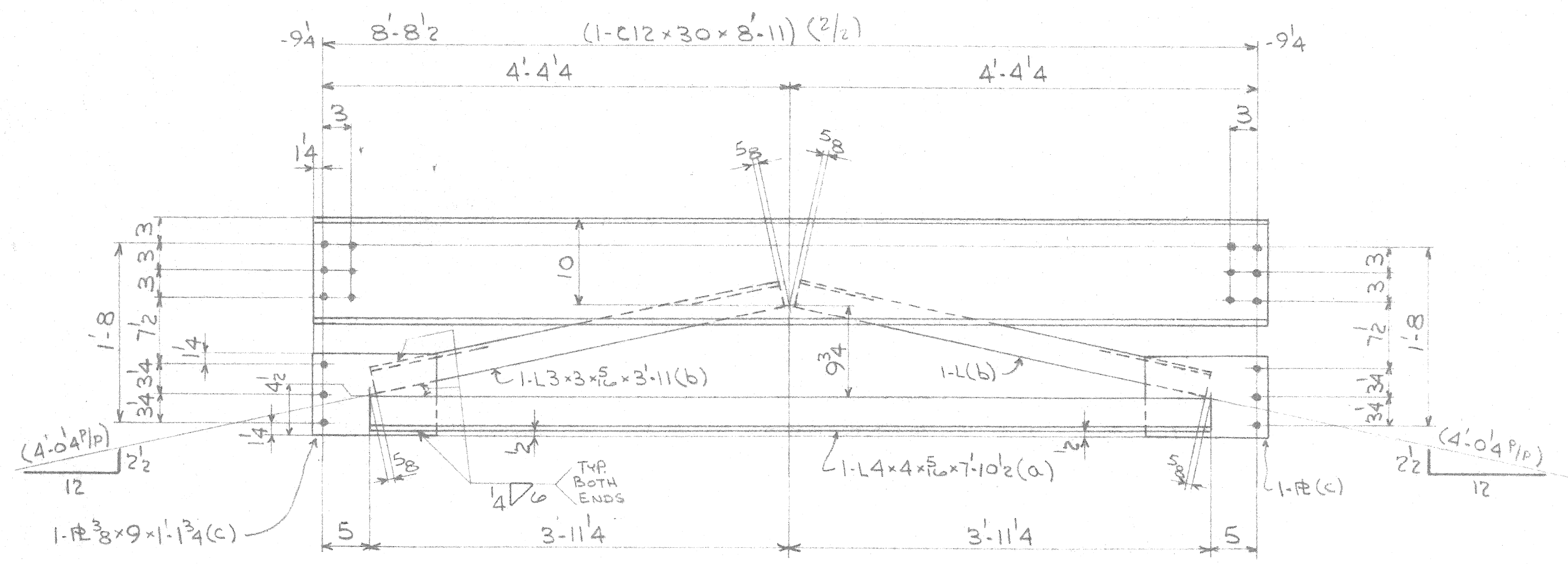


SHOP NOTE:
ALL MAT'L. CHARPY V-NOTCH IMPACT REQ'D EXCEPT SOLE PLATES

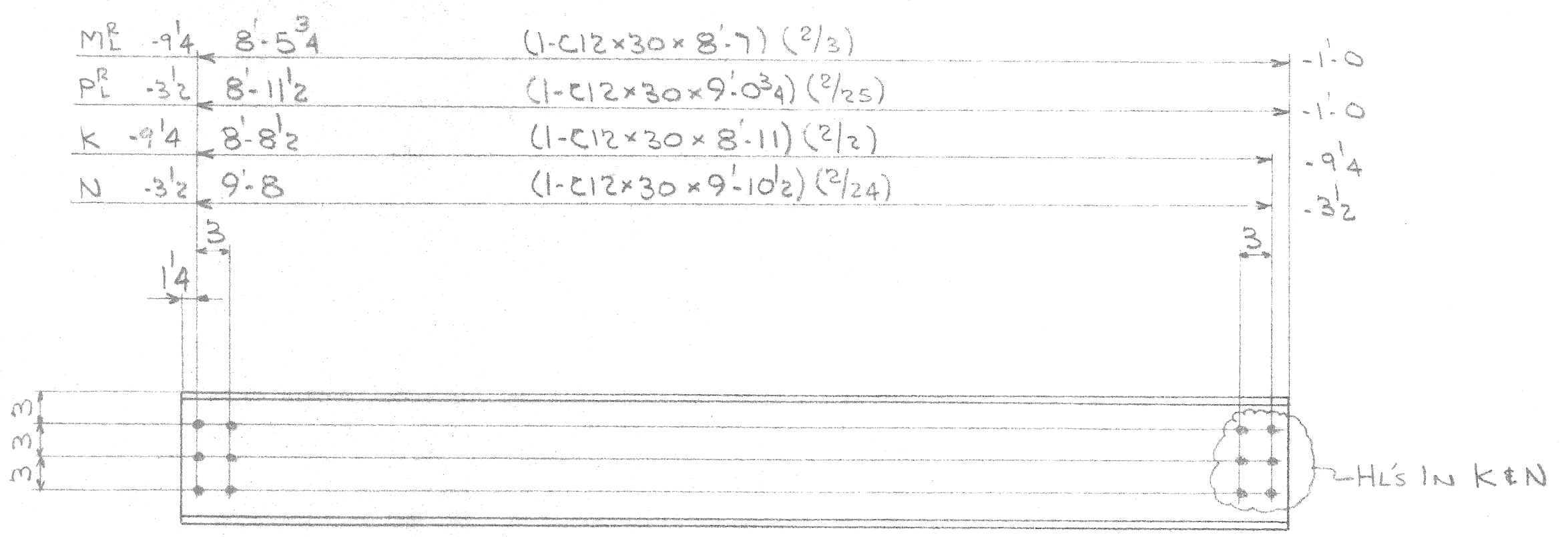
APPROVED

FOR GEN. NOTES SEE E12
FOR LOCATIONS SEE E1 & E2

4			8	
3			7	
2	2-13-84	ENG & DES	6	
1	1-17-84	APPL	5	
DATE	SENT FOR	DATE	SENT FOR	
MUNSTER STEEL CO., INC.				
Fabricators of Structural and Miscellaneous Steel				
9505 CALUMET AVE., MUNSTER, IND.				
PROJECT	DOUGLAS A. MACARTHUR BRIDGE DETROIT, MICHIGAN			
CUSTOMER	LUTTON-KELLY			
HOLE	13/16"	BEAM DETAILS	CONTRACT #1996	SHT. NO 3
PAINT		CHECKED		
DRAWN	D.C.	DATE	1-29-83	

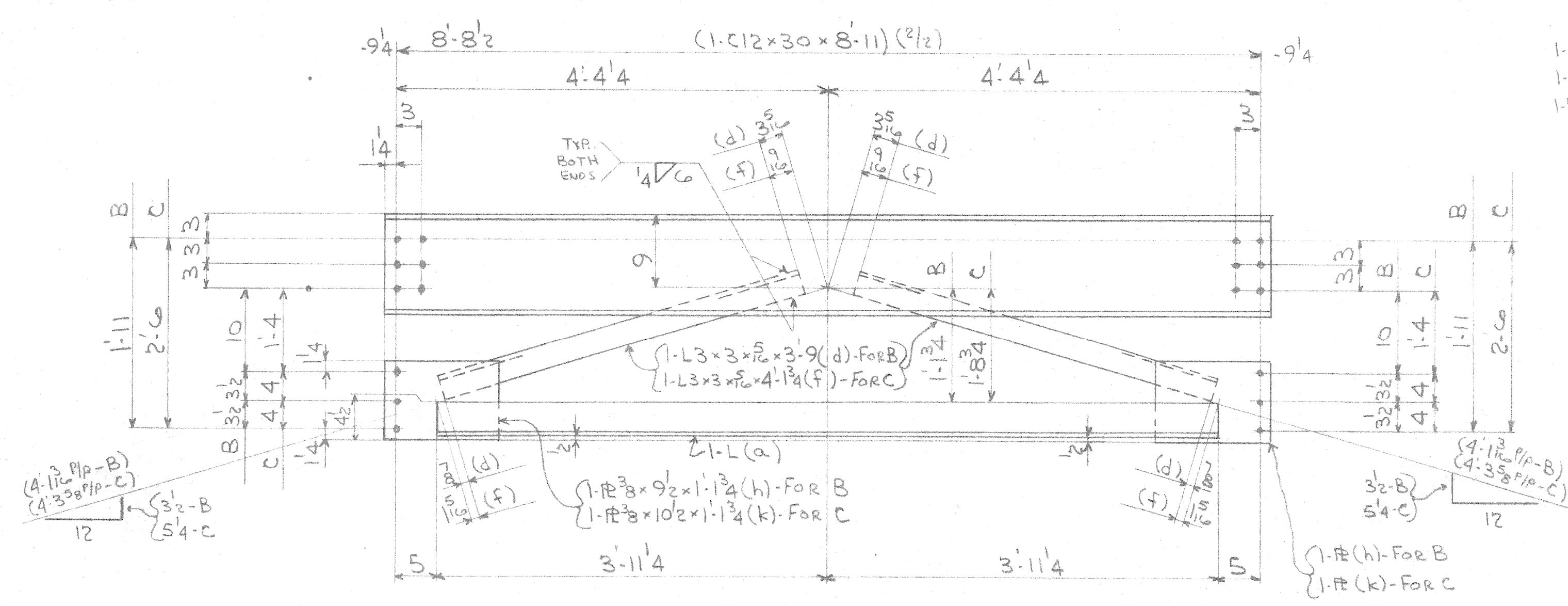
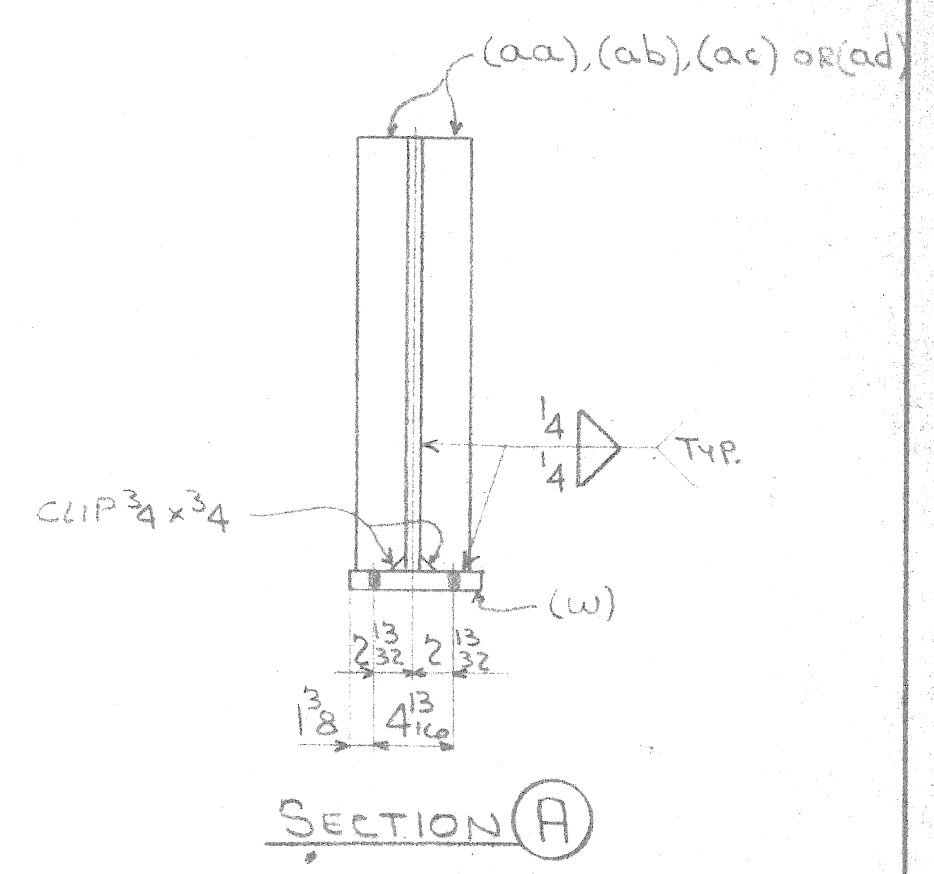


48-DIAPHRAMS-A2

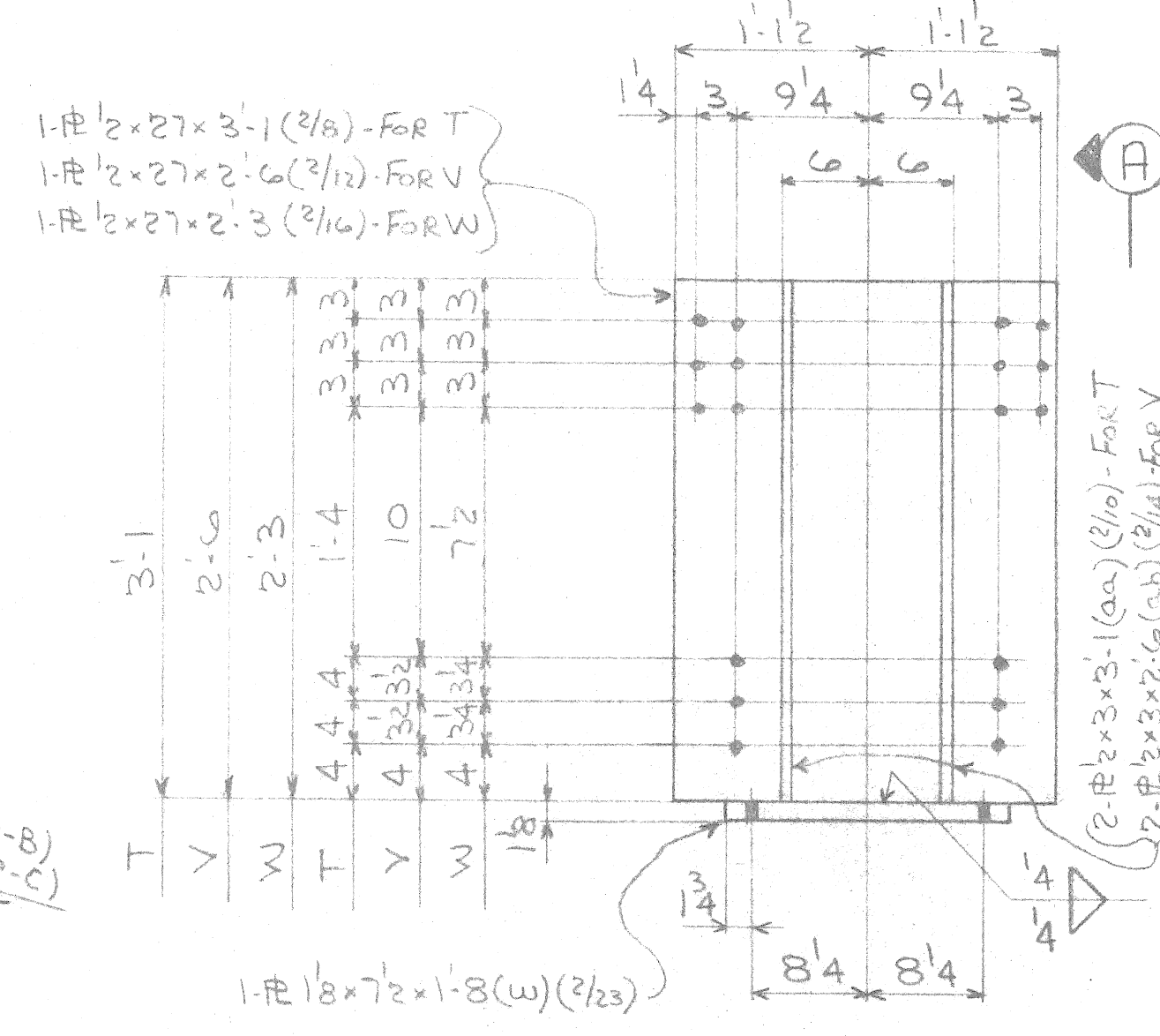


48-DIAPHRAMS-K2

8-	-M2 ^R
228-	-N2
38-	do -P2 ^R

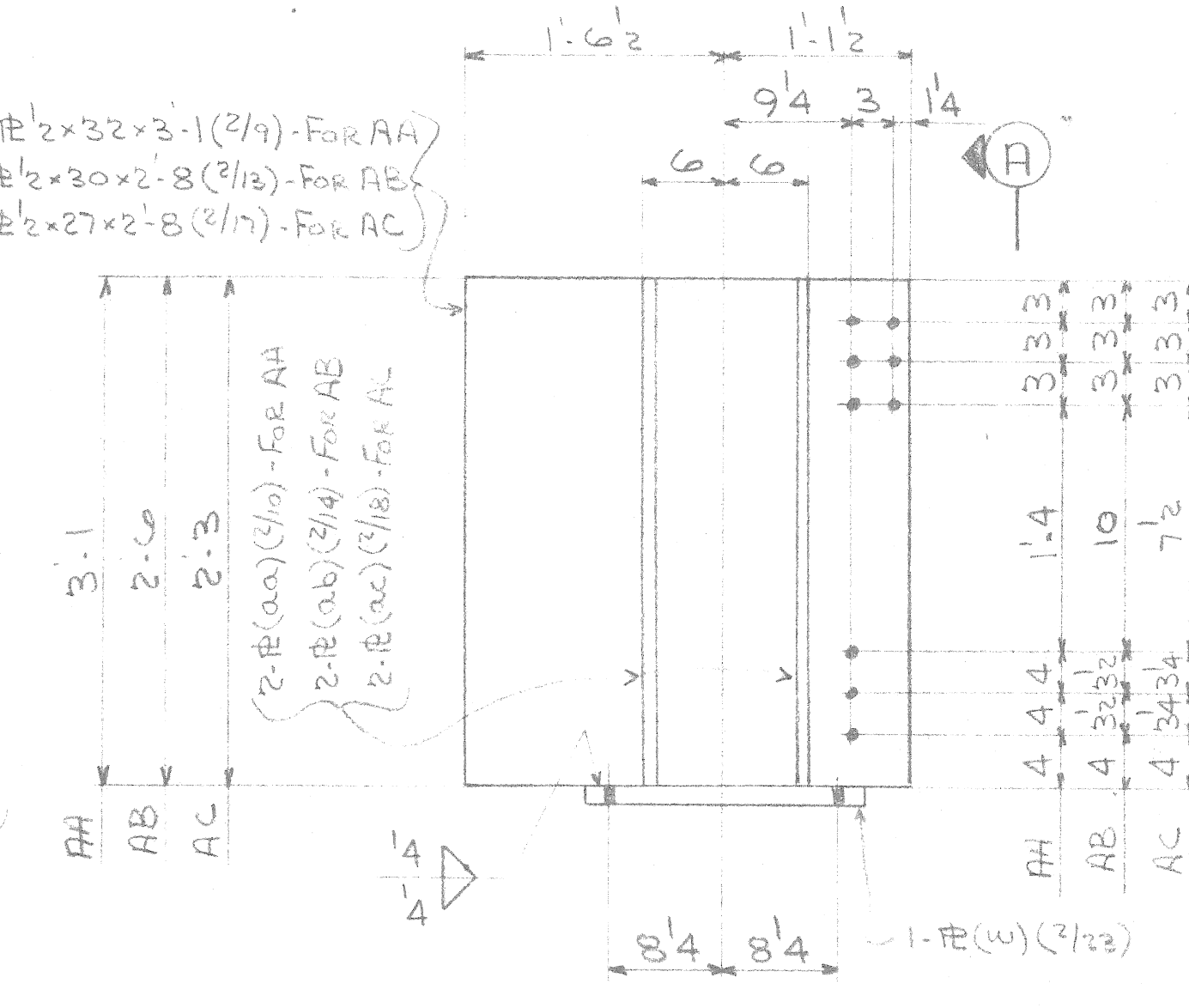


72-DIAPHRAMS-B2
60-DIAPHRAMS-C2



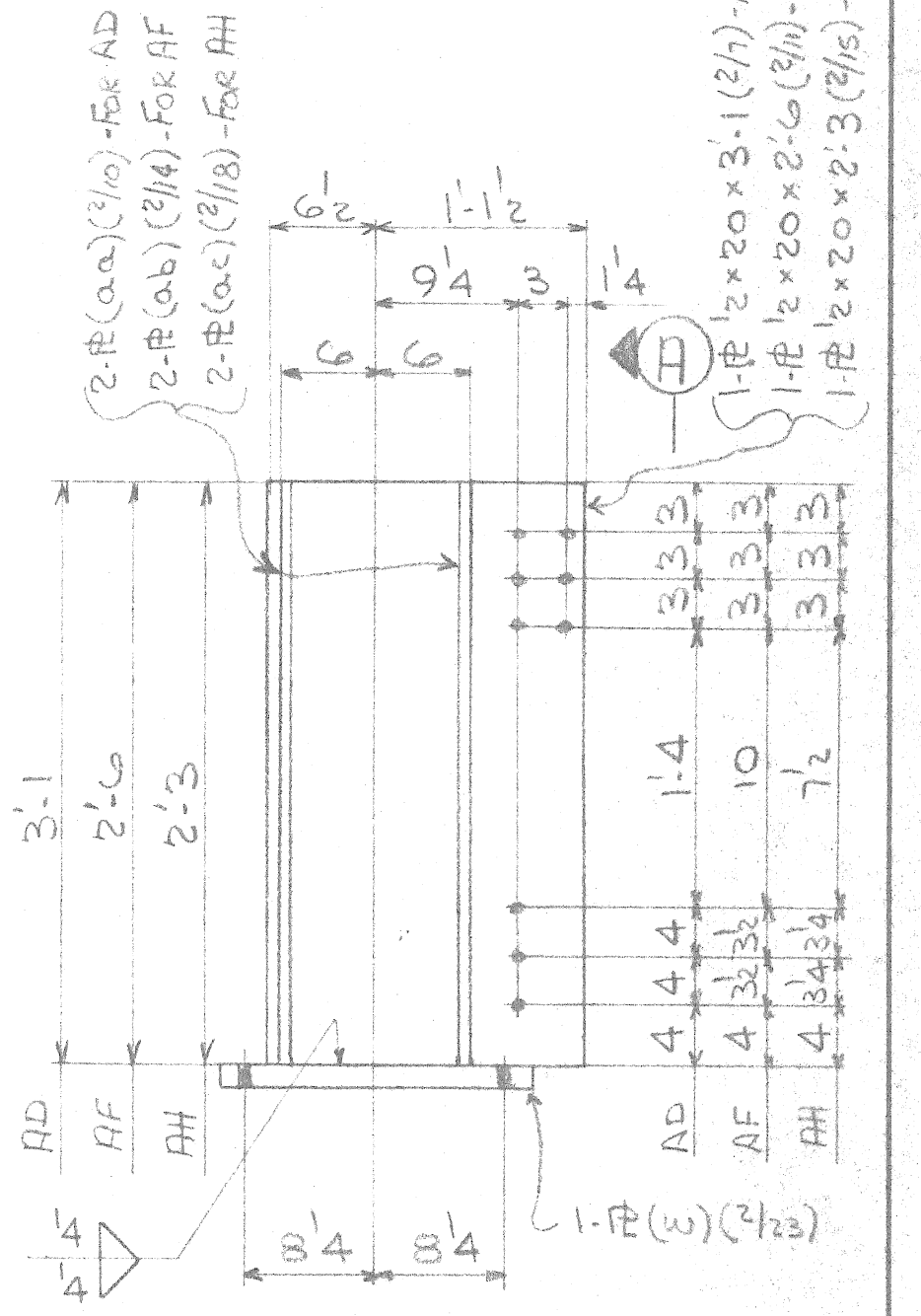
50-PIER FRAMES-T2

60-	-V2
40-	do -W2



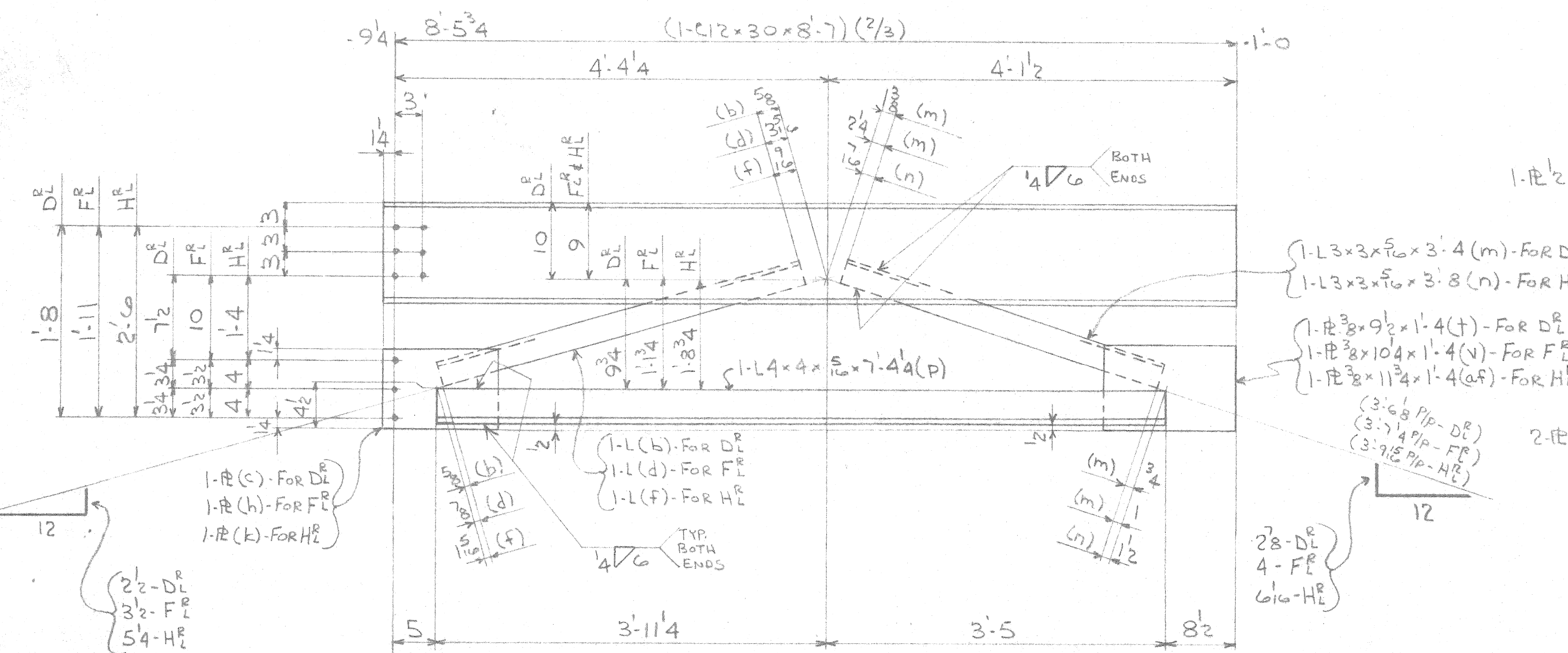
10-PIER FRAMES-AA2

12-	-AB2
8-	do -AC2



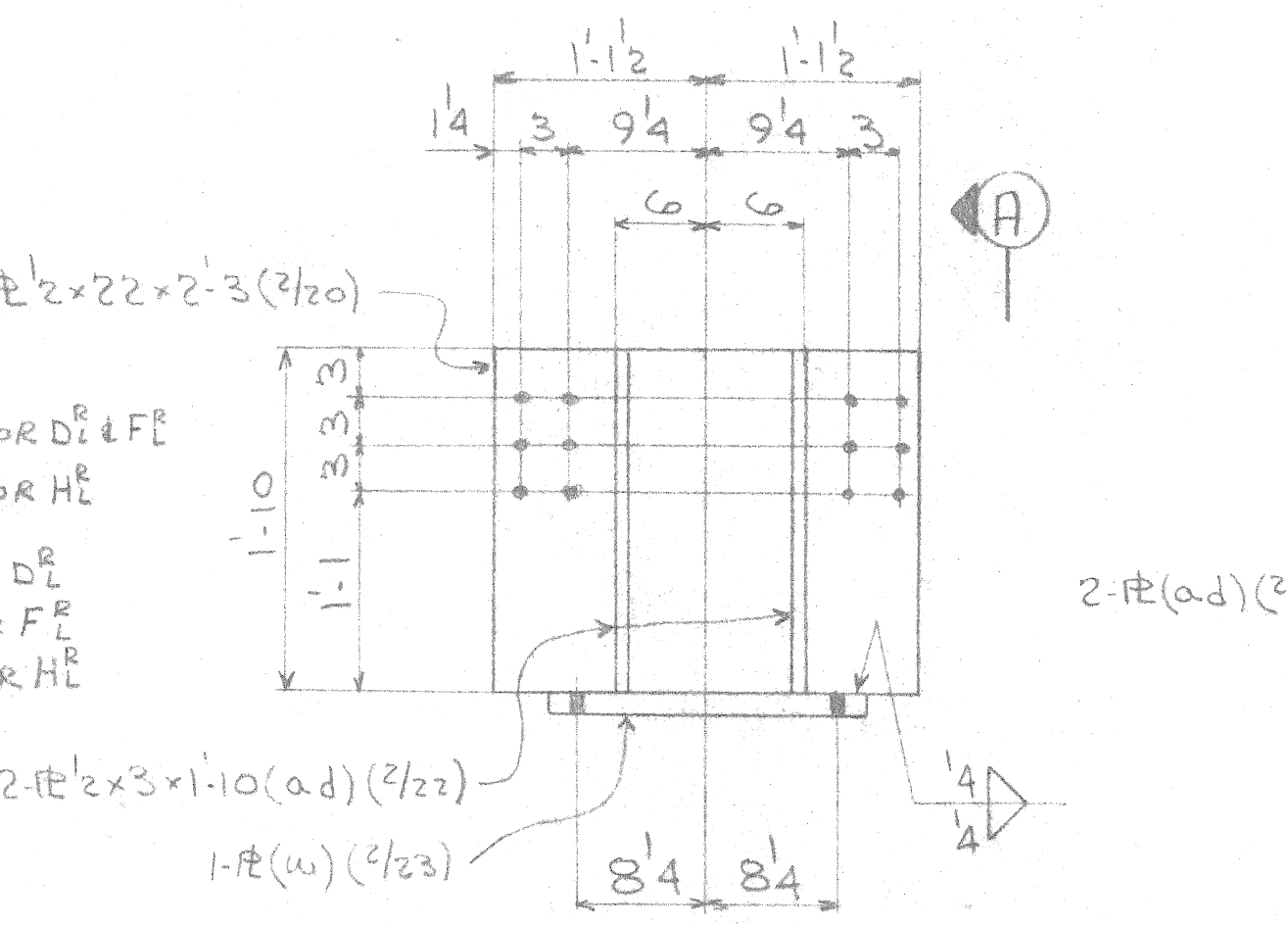
20-PIER FRAMES-AD2

24-	-AF2
16-	do -AH2

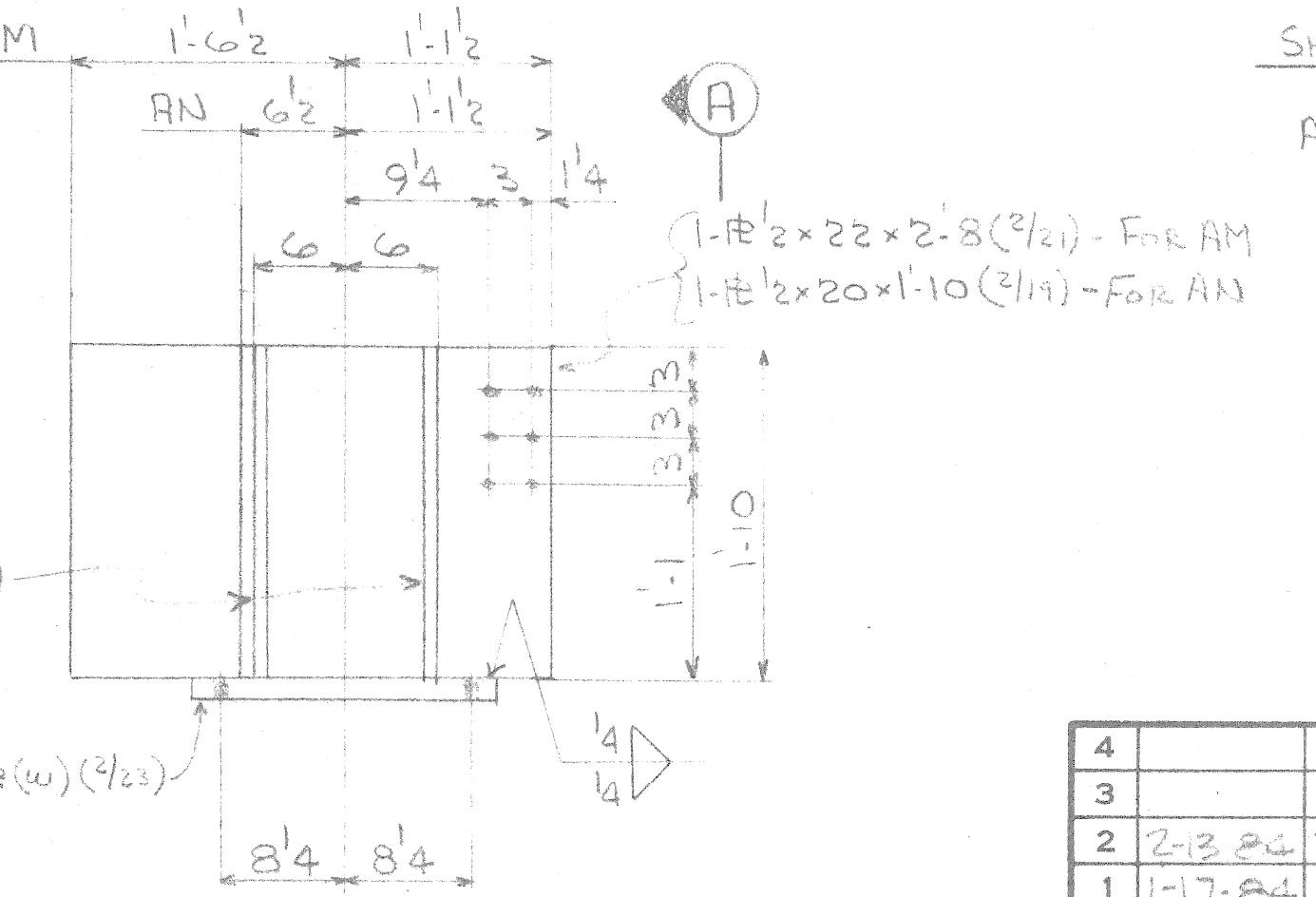


8-DIAPHRAMS-D2

12-	-F2 ^R
10-	do -H2 ^R



40-PIER FRAMES-AK2



8-PIER FRAMES-AM2

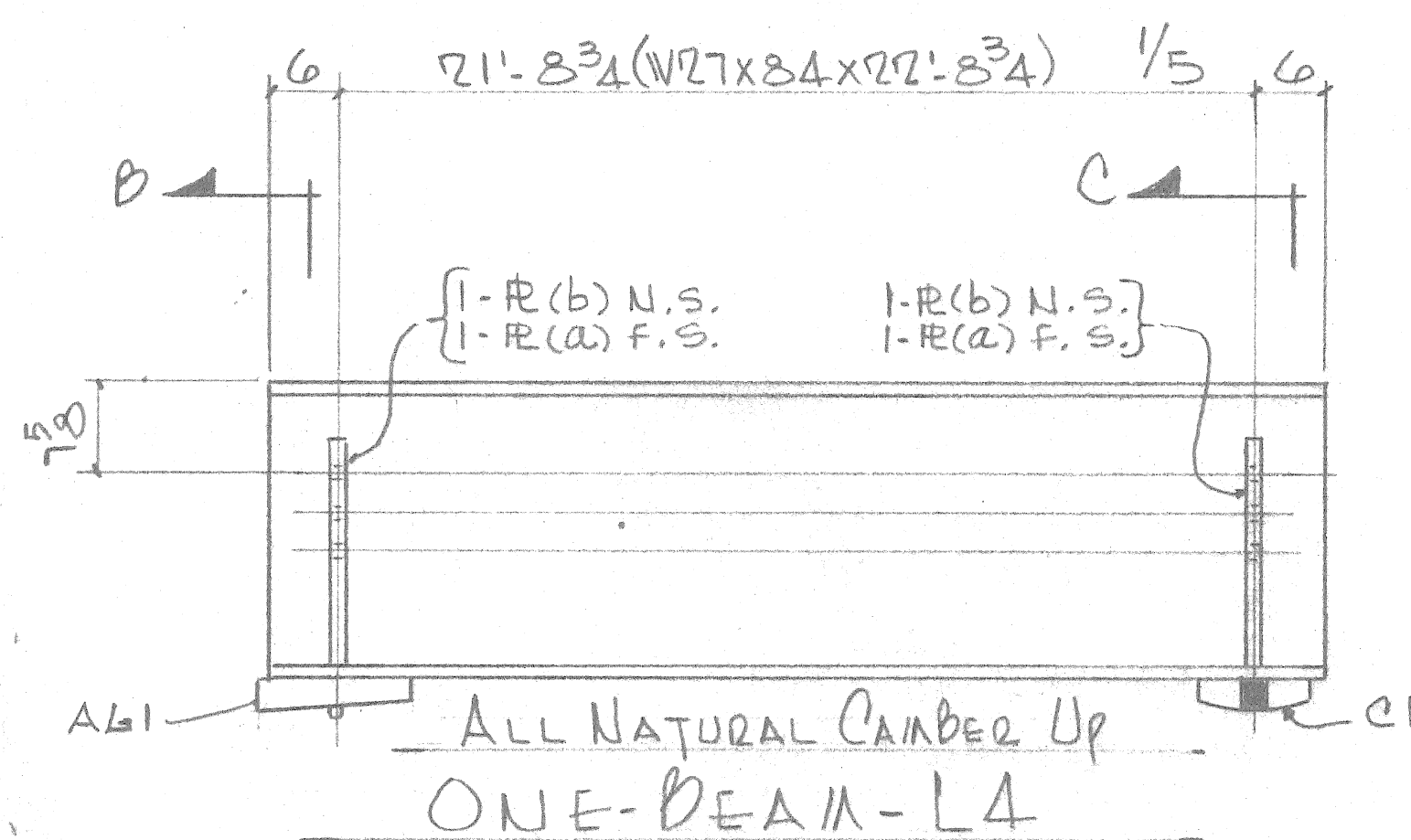
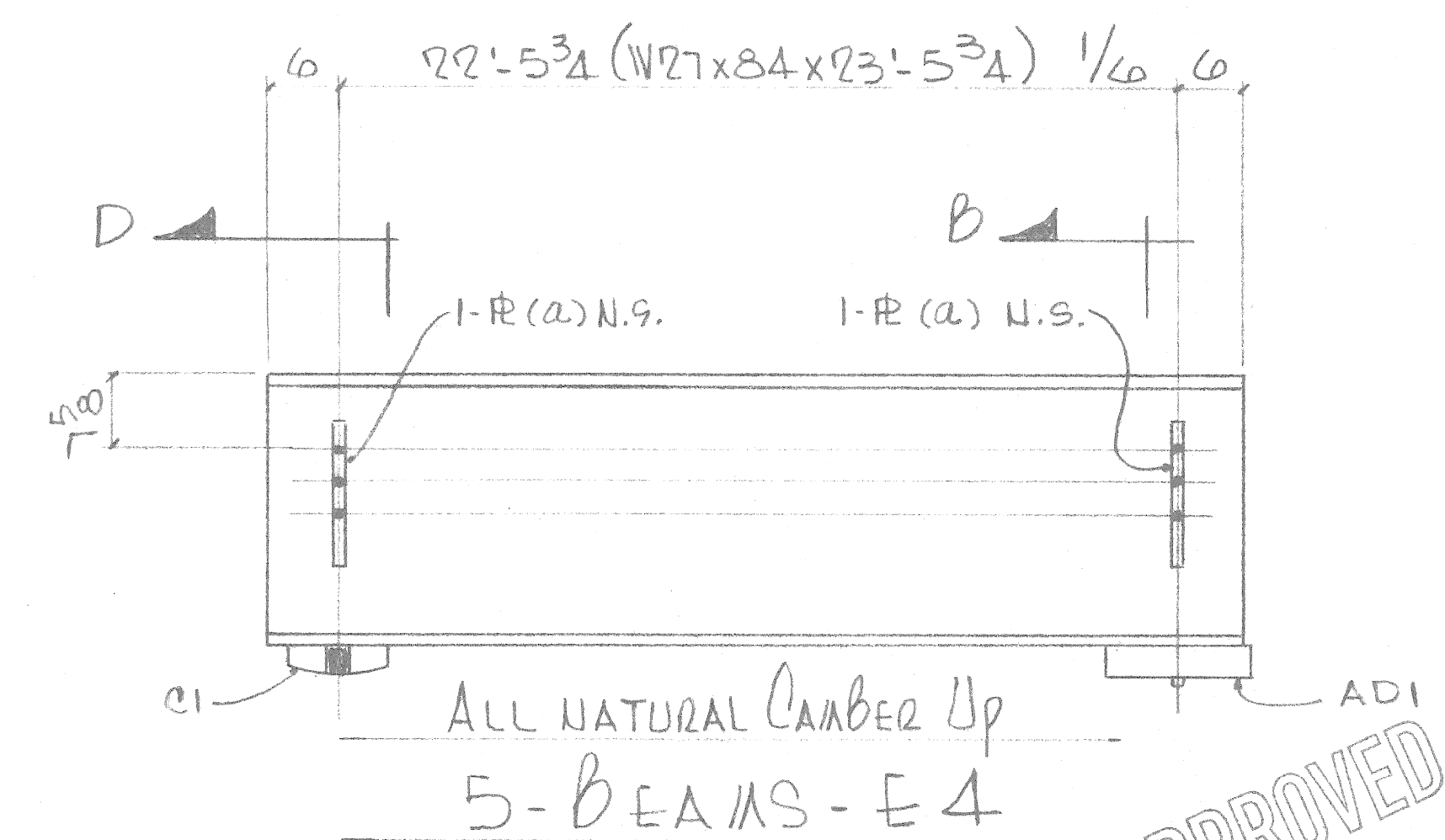
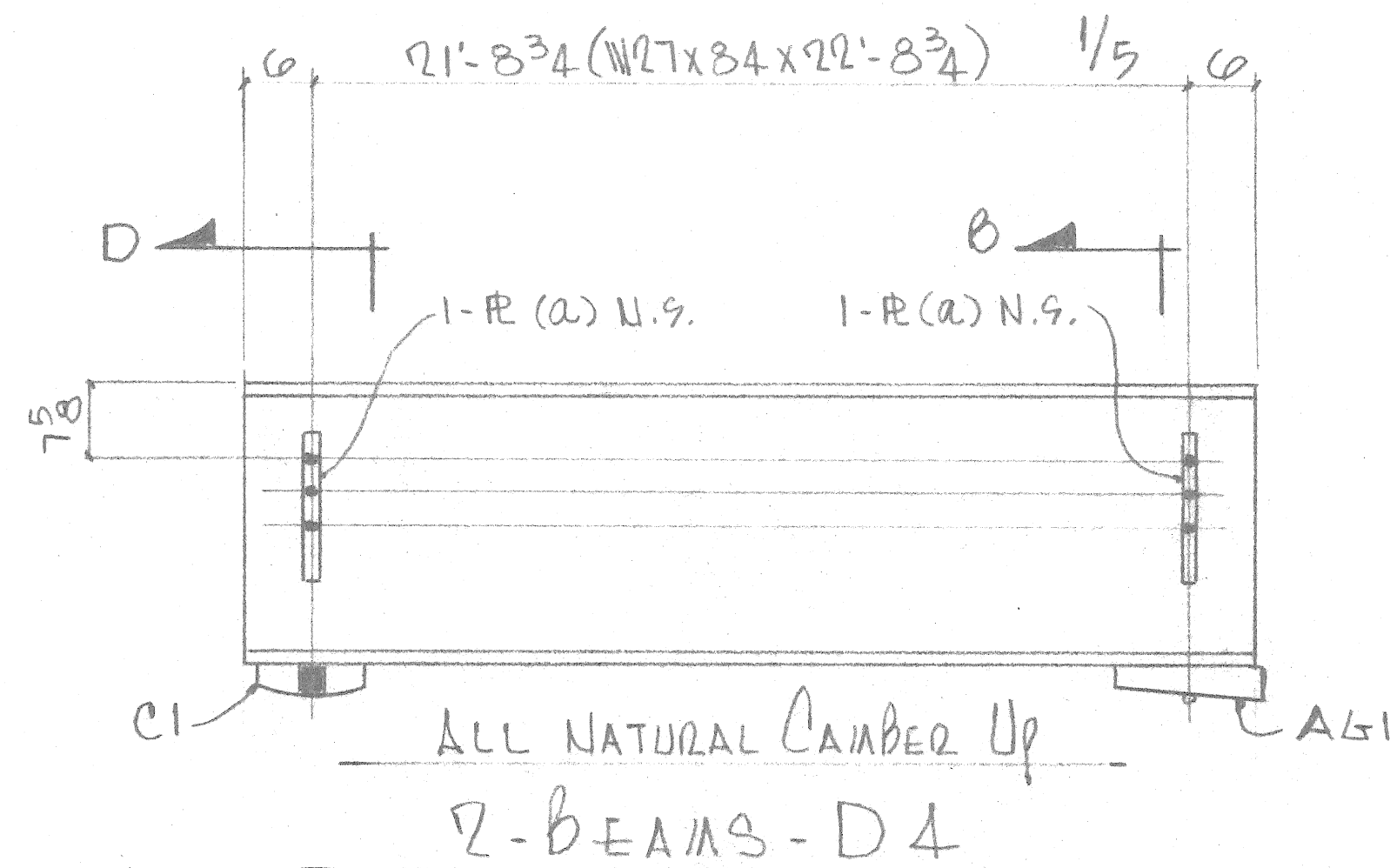
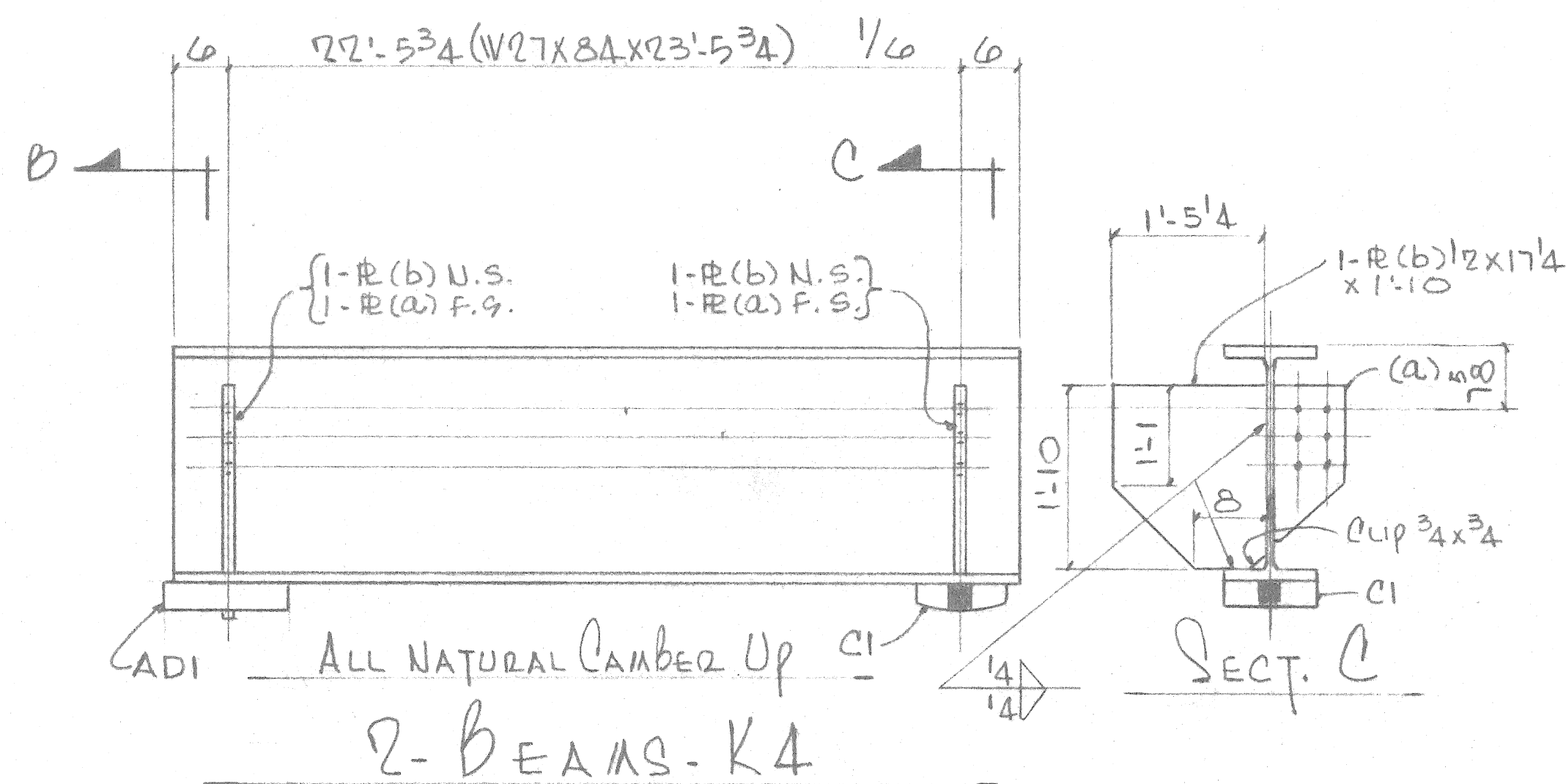
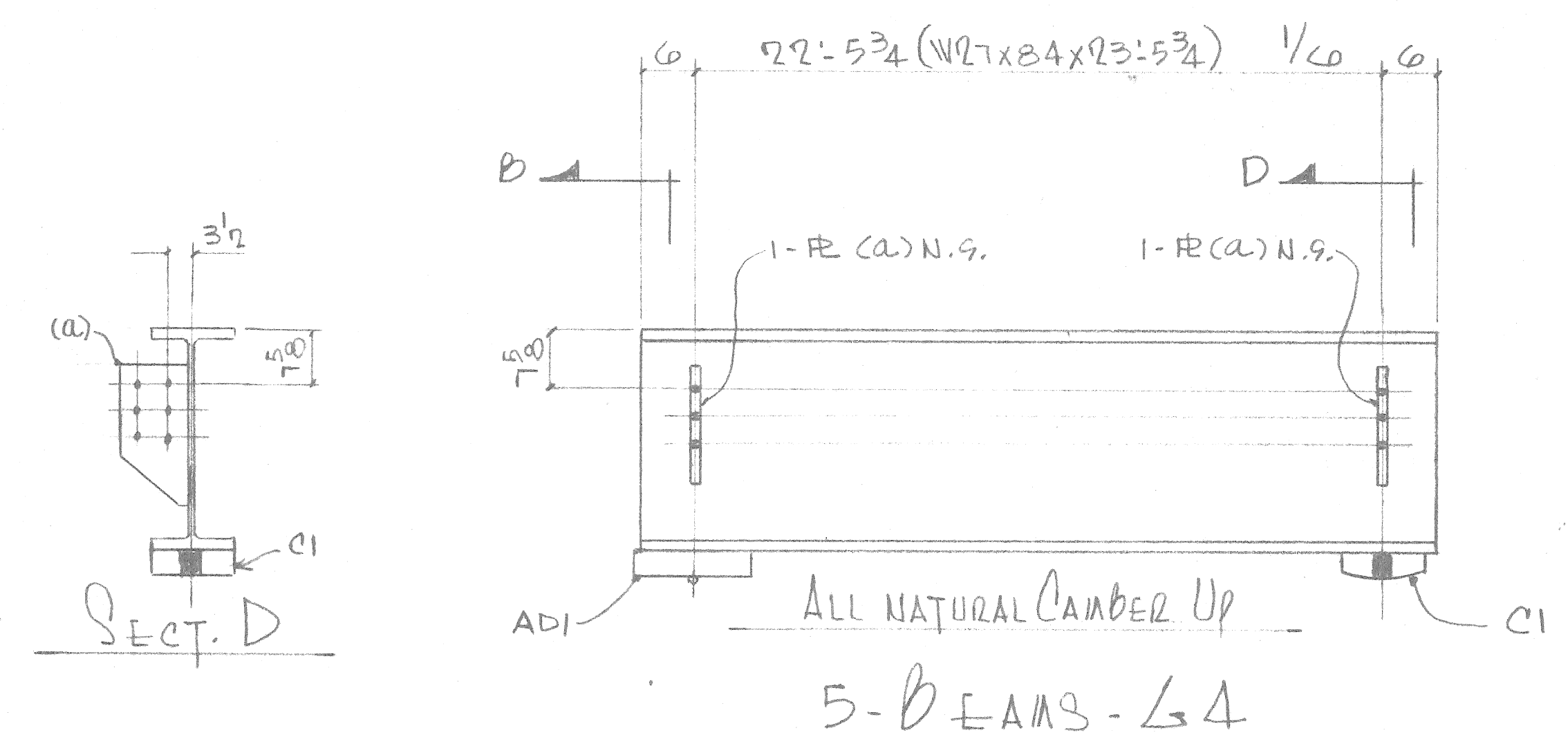
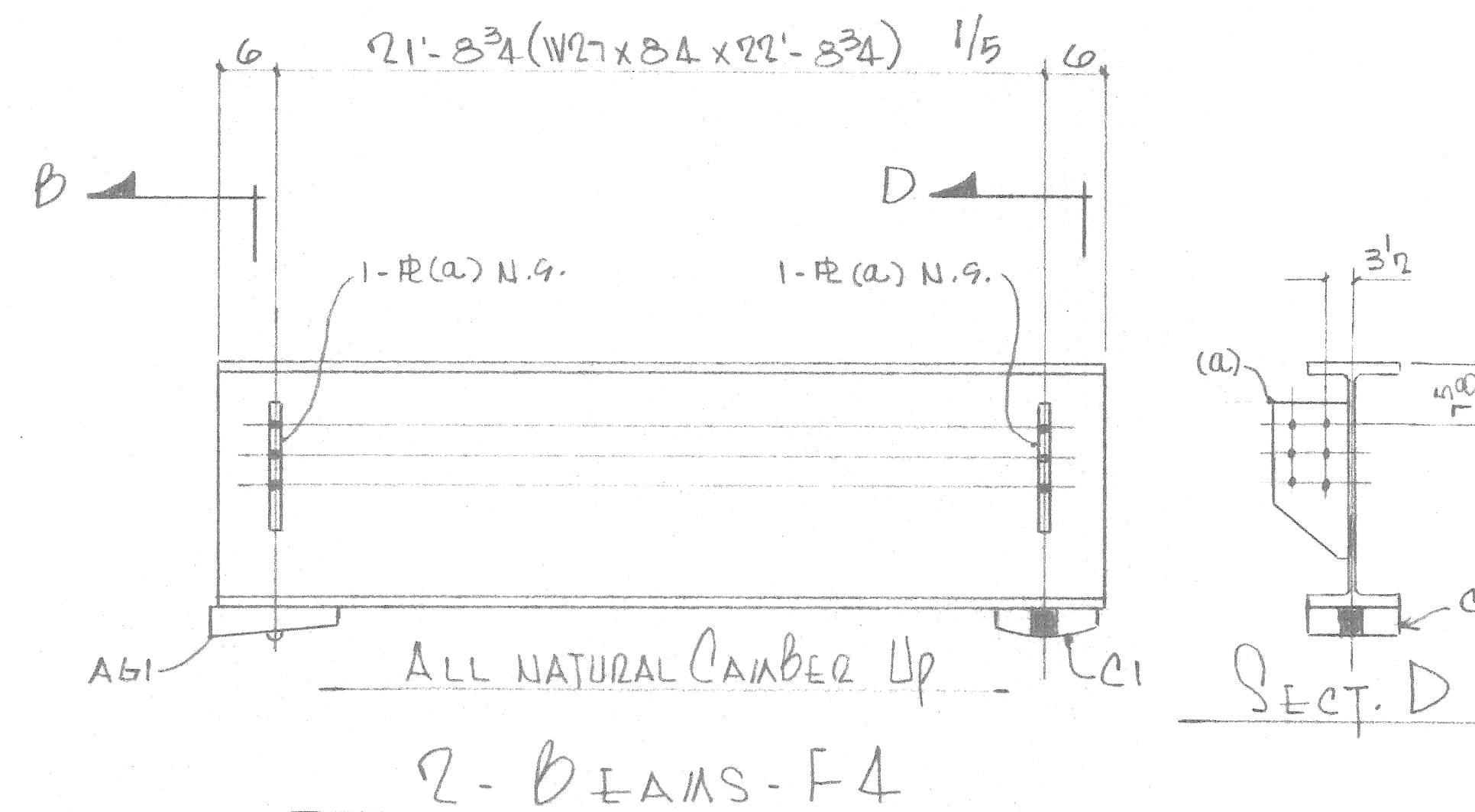
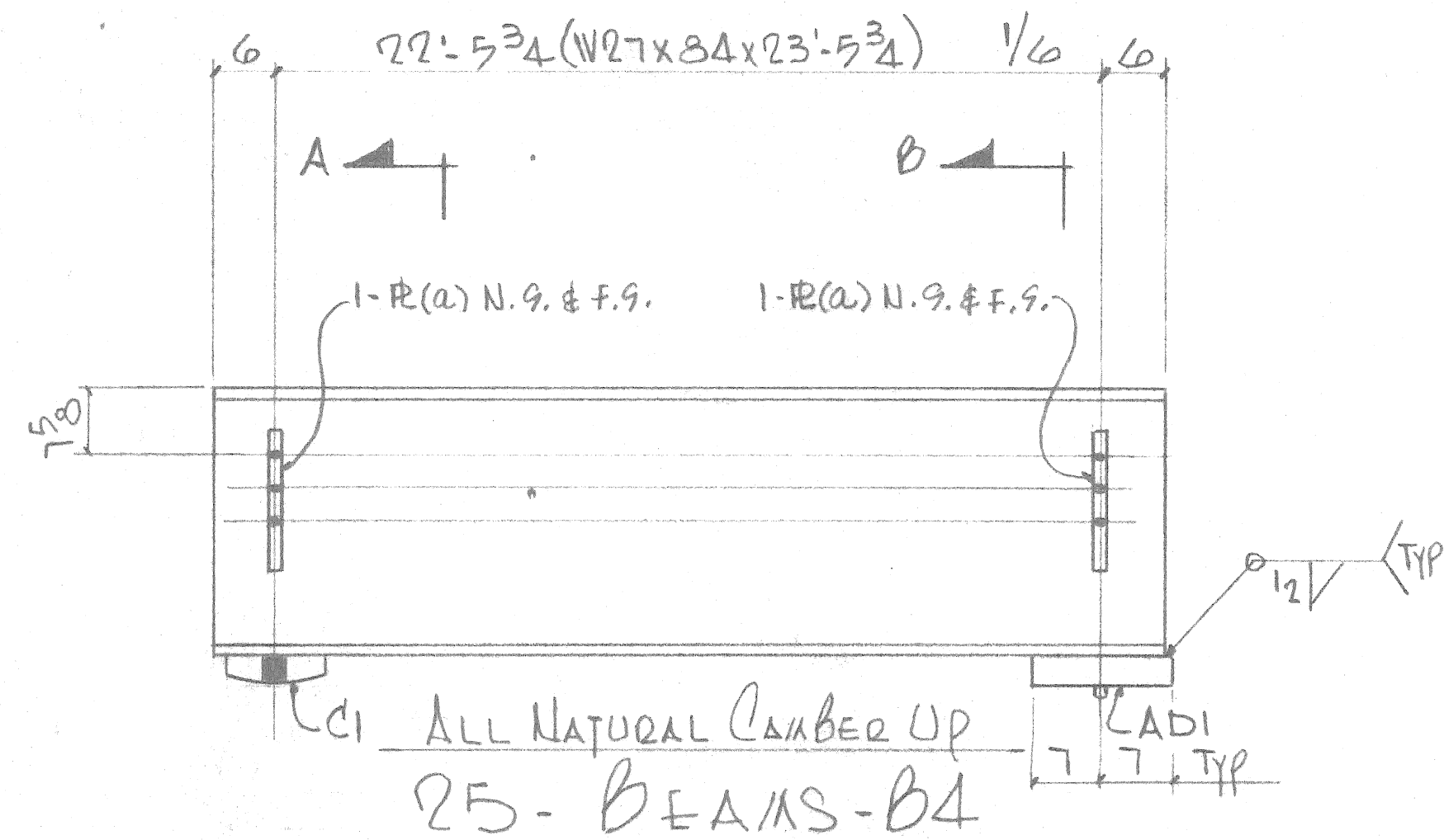
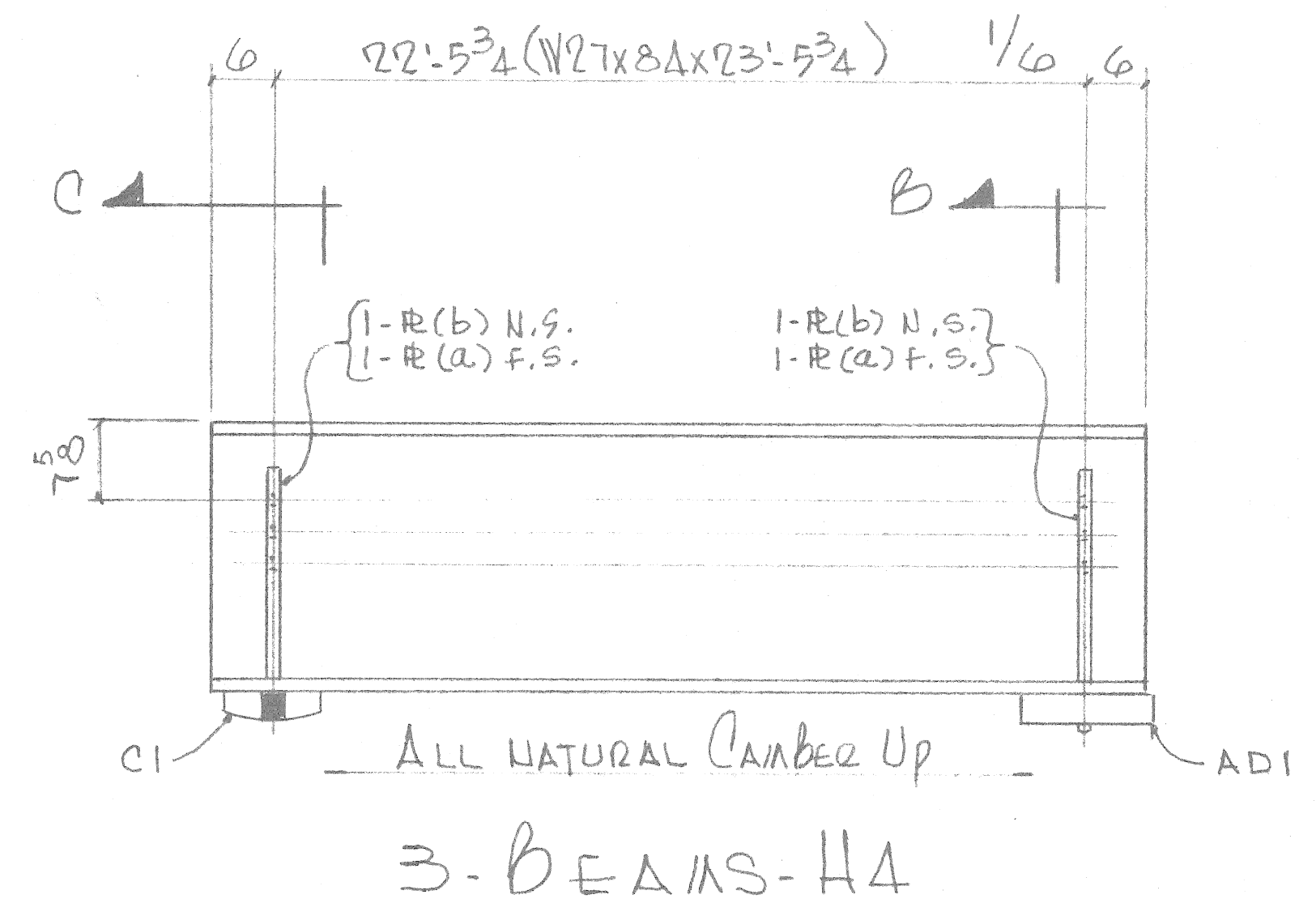
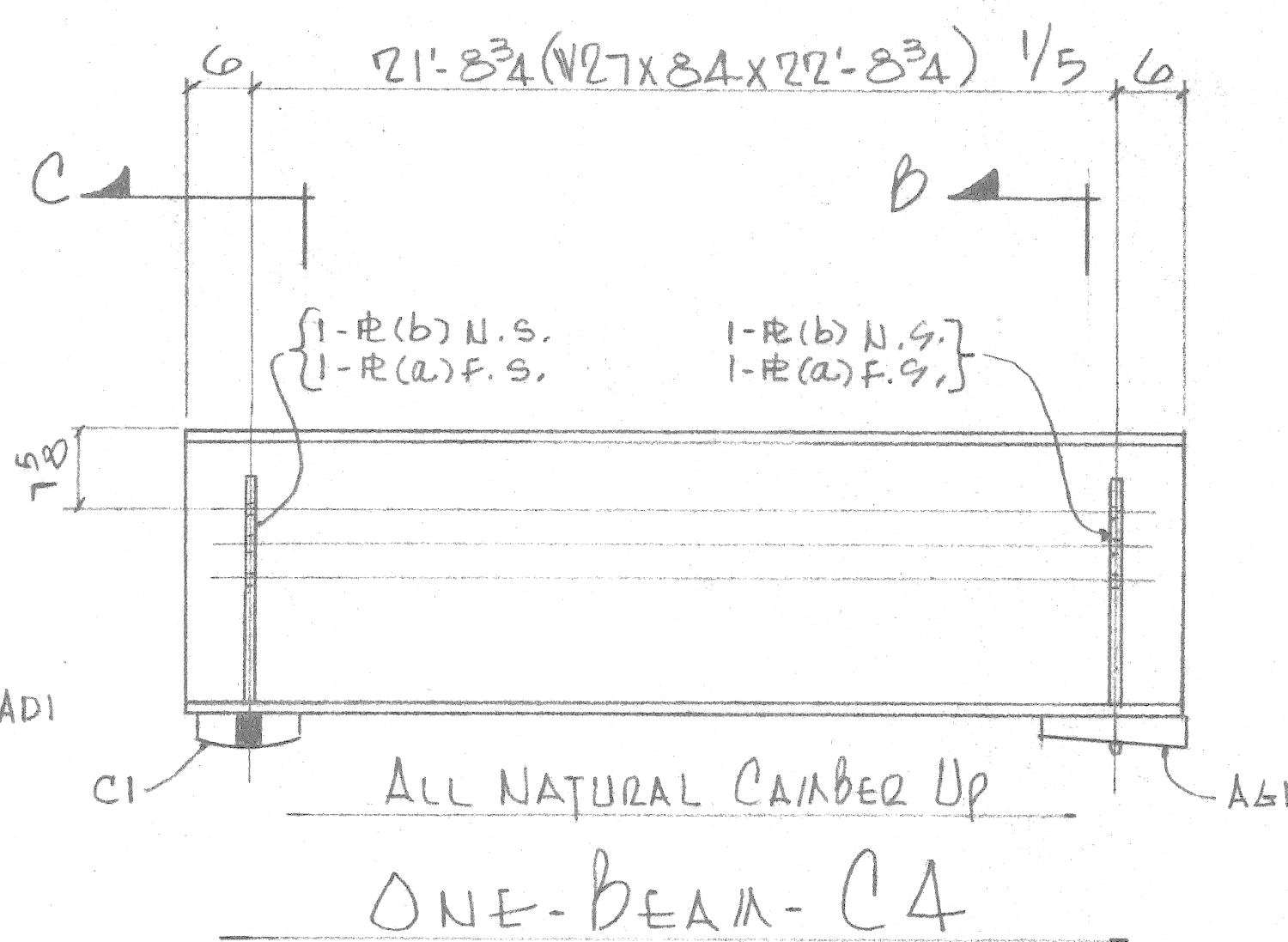
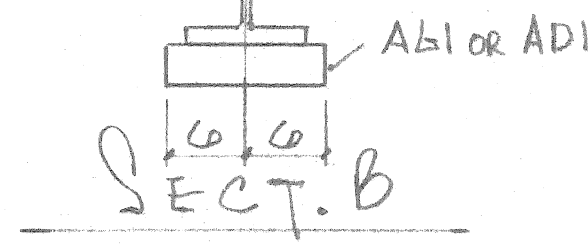
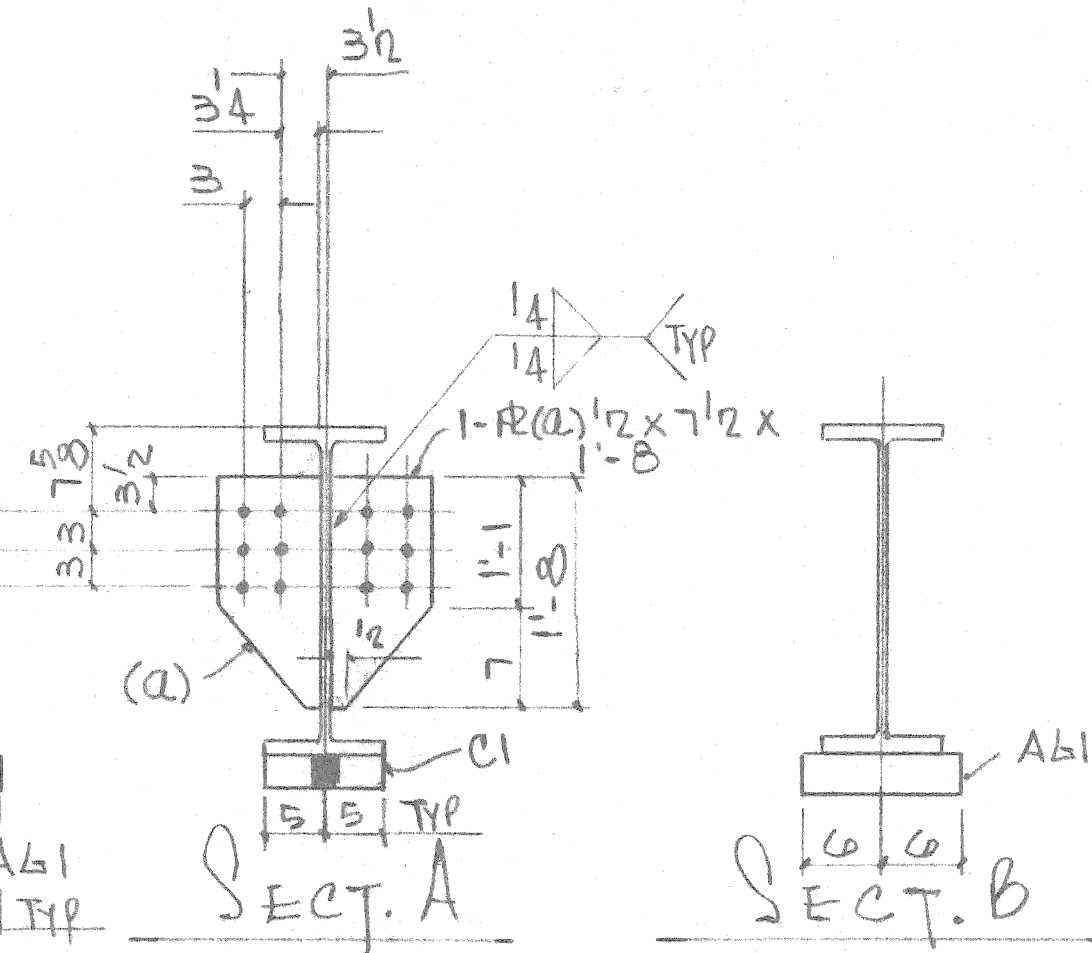
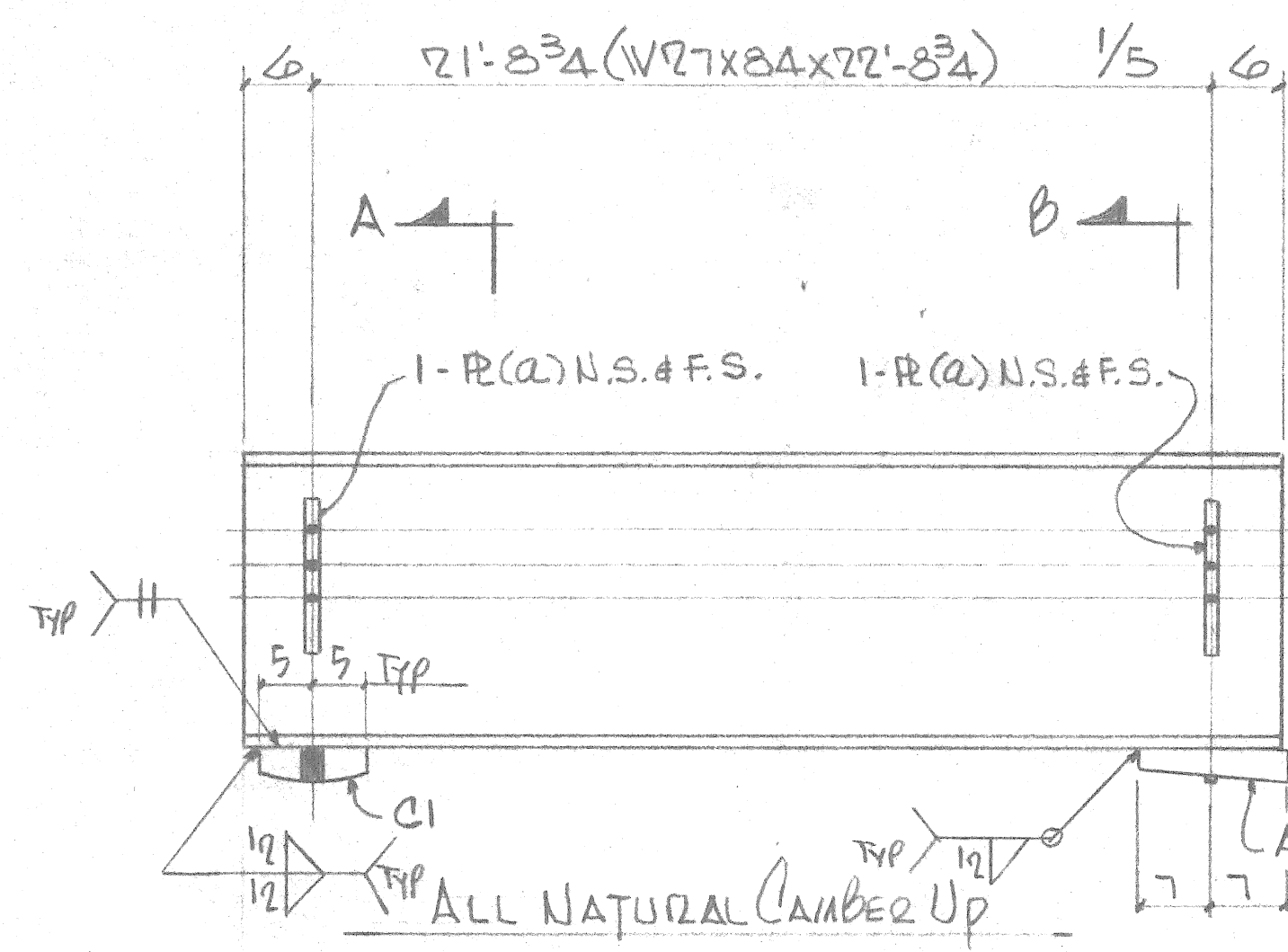
16-	do -AN2
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SHOP NOTE:
ALL MAT'L. CHAMPY V-NOTCH IMPACT REQ'D.

APPROVED

FOR GEN. NOTES SEE SHT. E2
FOR LOCATION SEE SHT. E1 & E2

4		8	
3		7	
2	2-13-84 FAB & DST	6	
1	1-17-84 APPL	5	
DATE	SENT FOR	DATE	SENT FOR
MUNSTER STEEL CO., INC.			
Fabricators of Structural and Miscellaneous Steel			
9505 CALUMET AVE., MUNSTER, IND.			
PROJECT	DOUGLAS A. MACARTHUR BRIDGE DETROIT, MICHIGAN		
CUSTOMER	JUTTON - KELLY		
Holes 13/16"	DIAPHRAMS &	CONTENT No.	SHT. No.
PAINT	PIER FRAMES	1996	2
DRAWN	CHECKED	DATE	
APL	WPP	12-28-83	



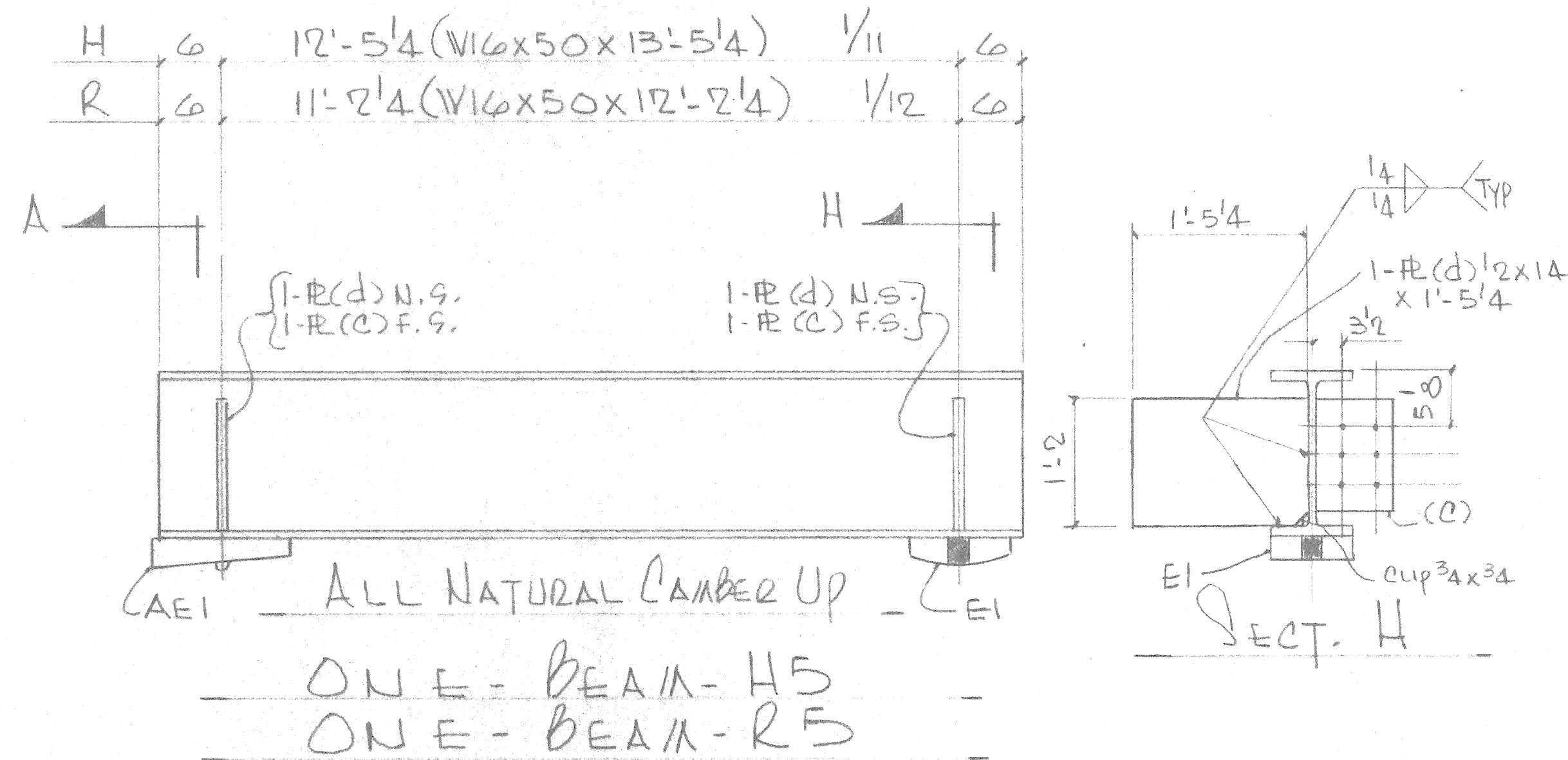
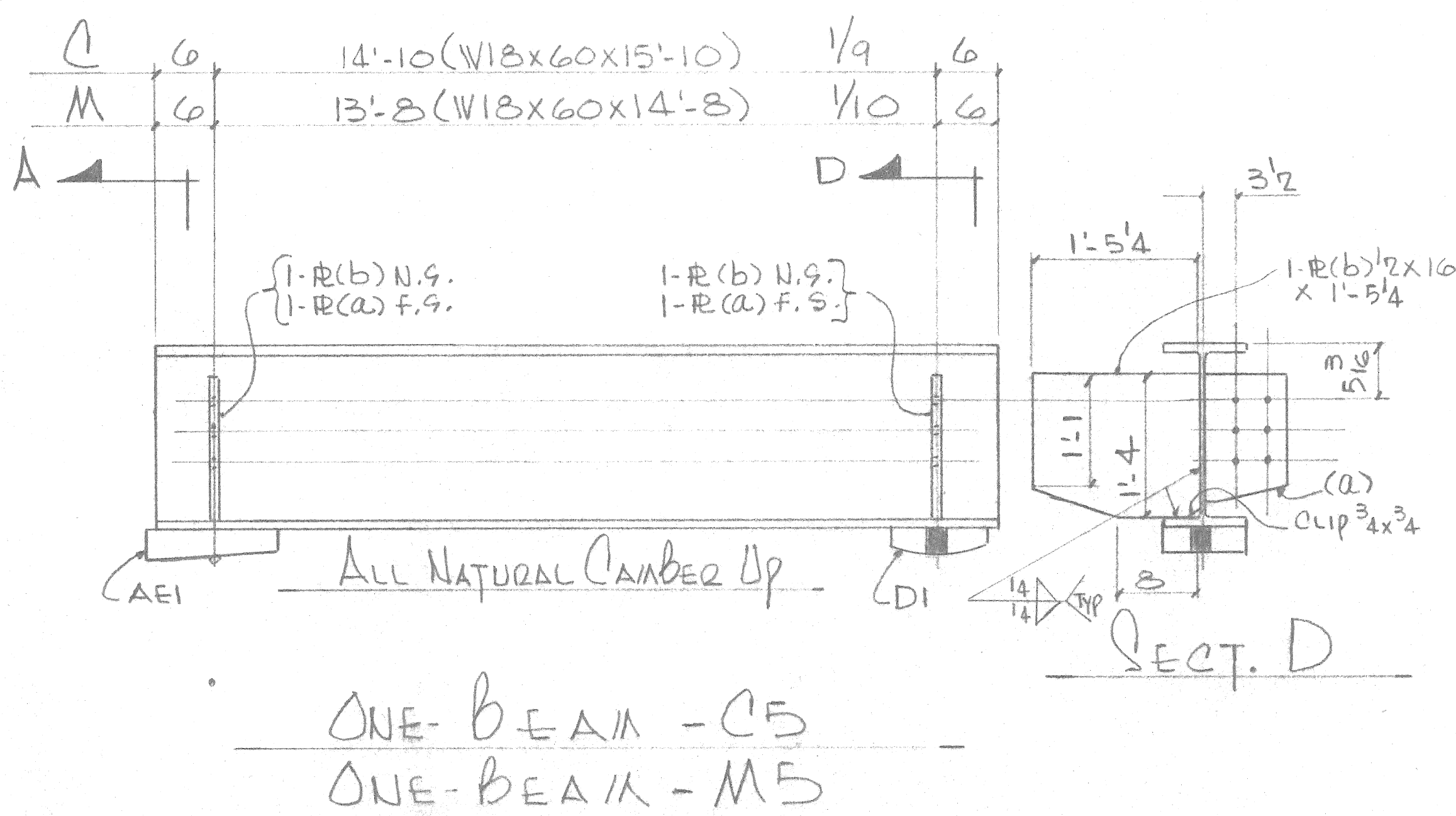
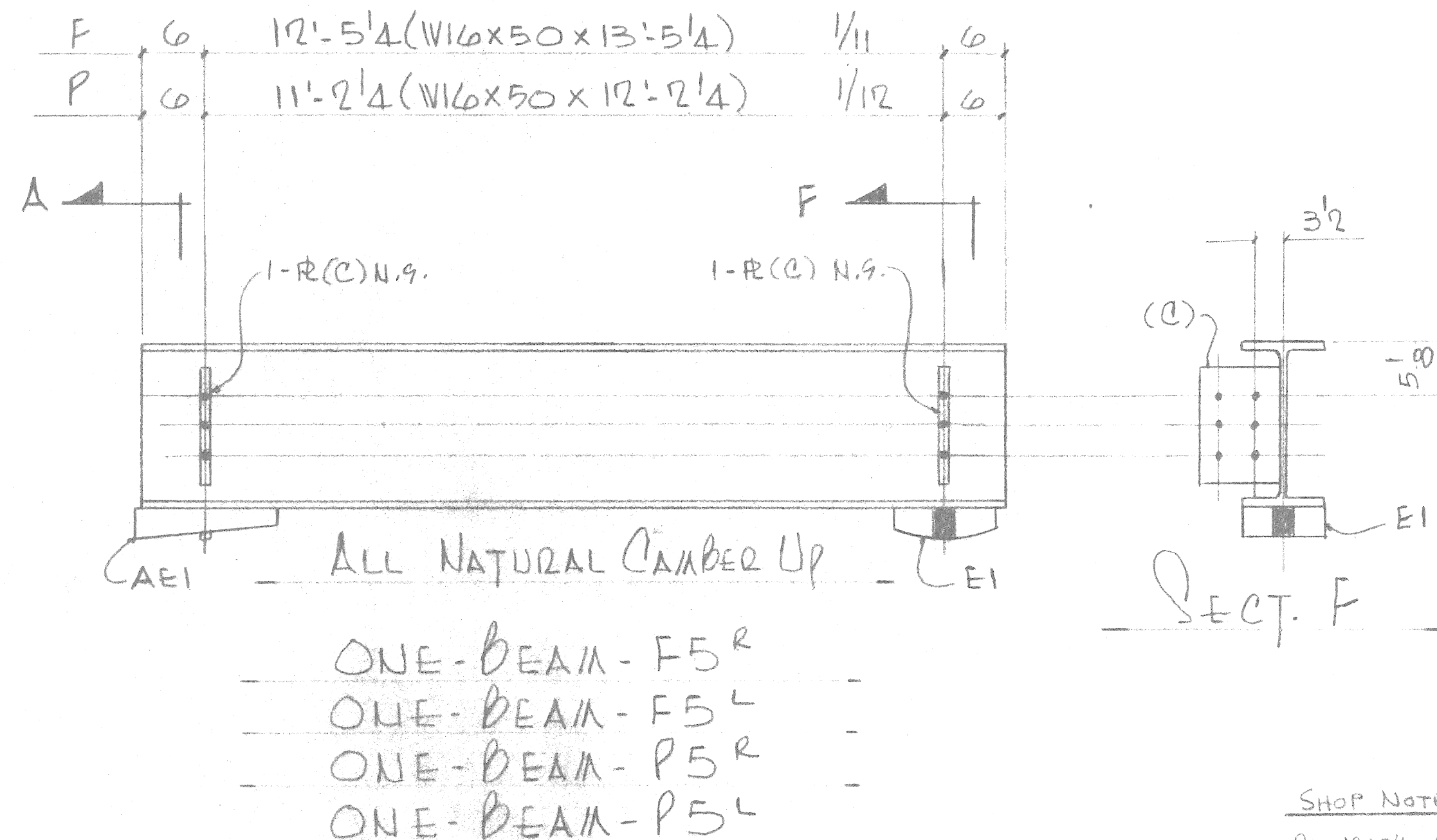
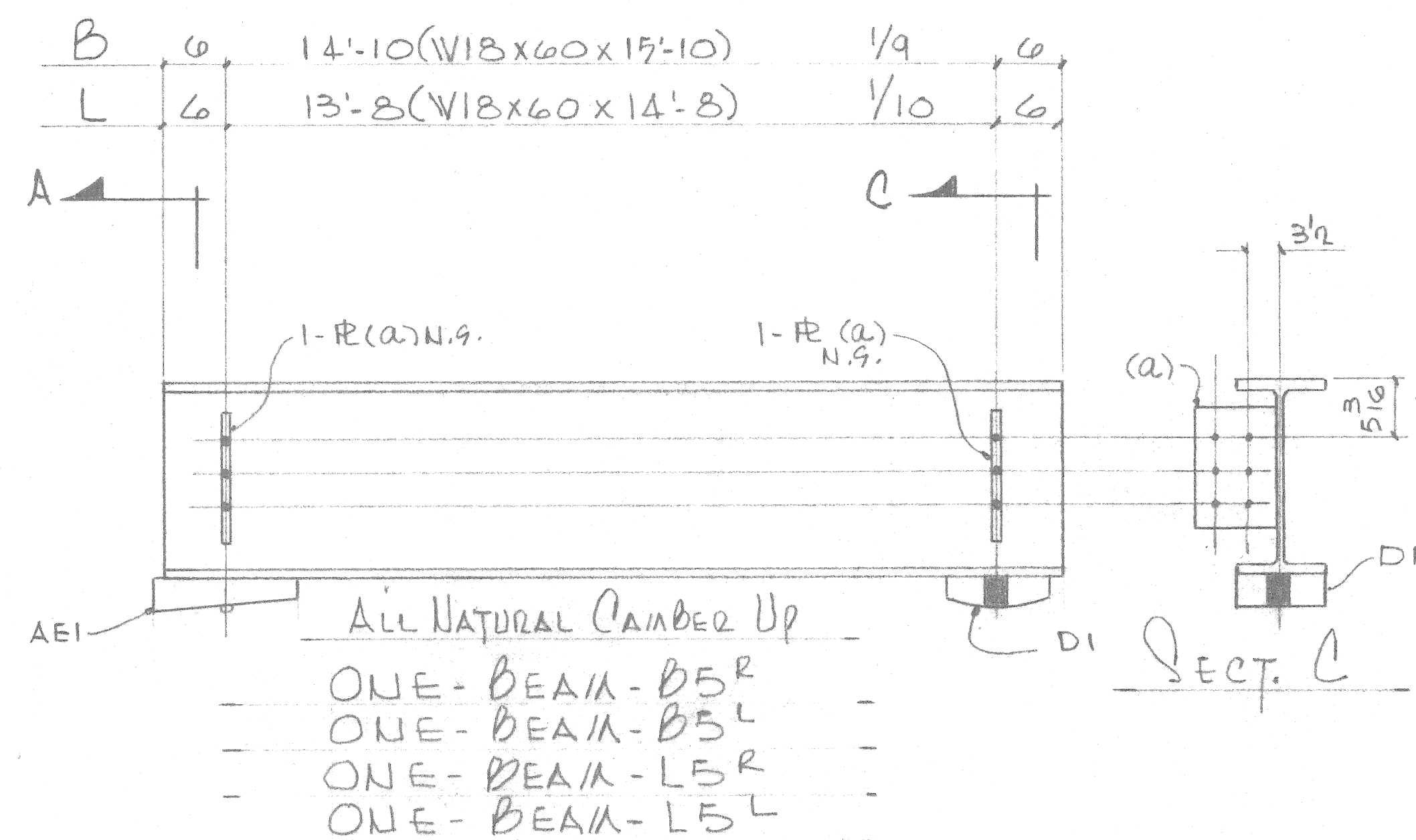
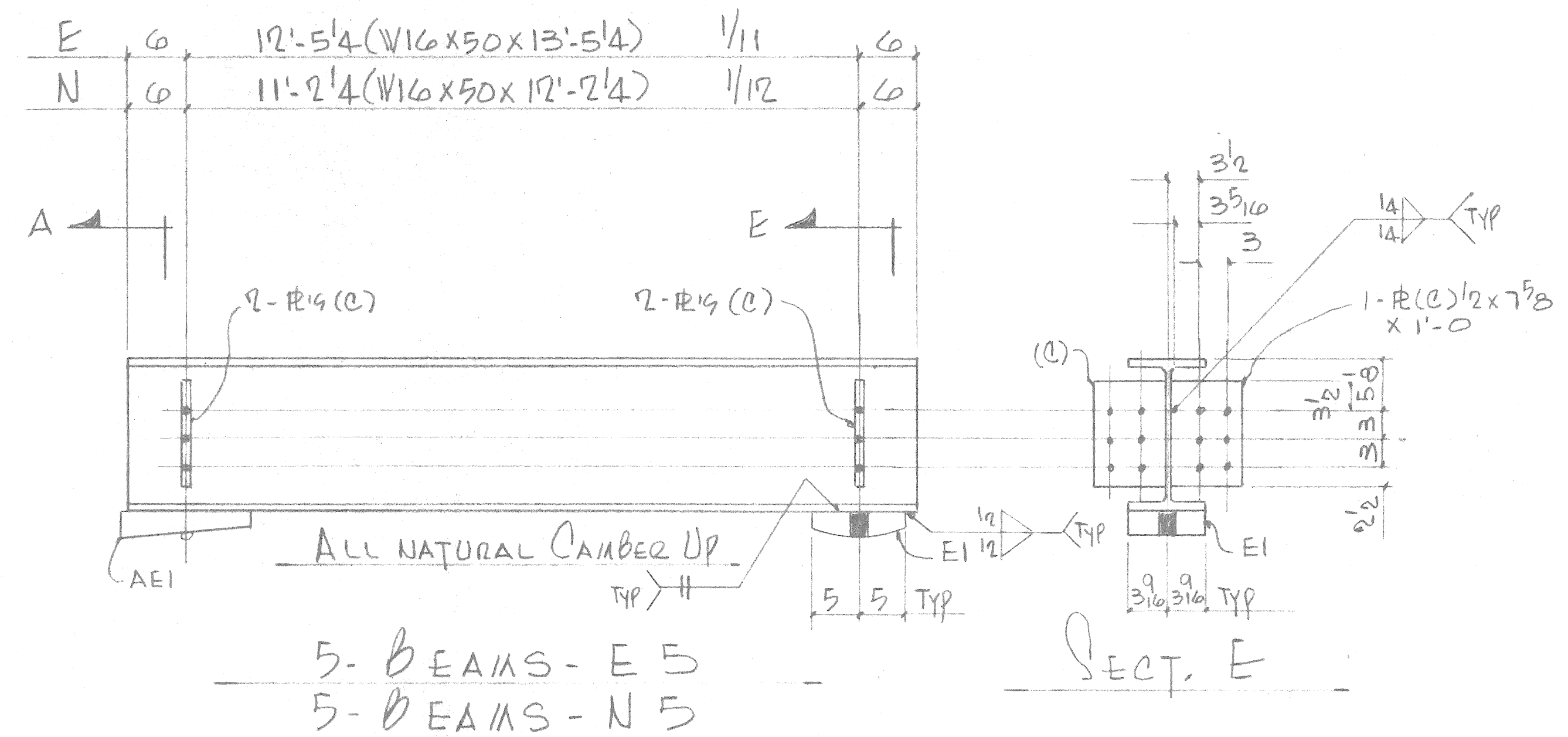
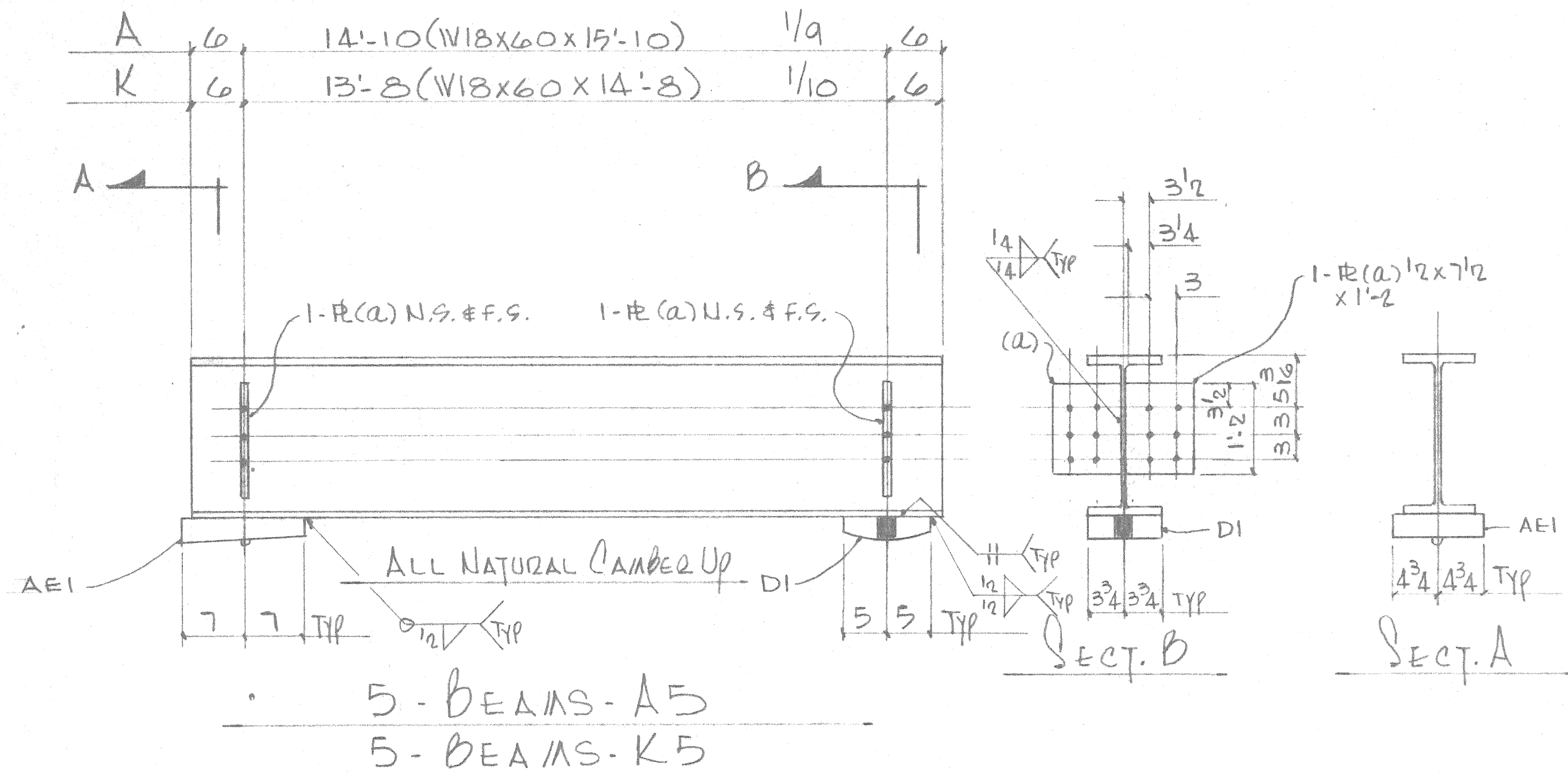
SHOP NOTE:
ALL MAT'L. CHARTY V-NOTCH IMPACT REQ'D. EXCEPT SOLE PLATE

FOR GEN. NOTES SEE E2
FOR LOCATION SEE E1

APPROVED

4		8	
3		7	
2	2-13-84	FAB # DIST	6
1	1-17-84	APPL	5
	DATE	SENT FOR	DATE SENT FOR
M		MUNSTER STEEL CO., INC.	
		Fabricators of Structural and Miscellaneous Steel	
		9505 CALUMET AVE., MUNSTER, IND.	
PROJECT	DOUGLAS A. MACARTHUR BRIDGE DETROIT, MICHIGAN		
CUSTOMER	JUTTON - KELLY		
NO. OF SHEETS	13	16	
DRAWN	B.C. W/1/84	CHECKED	12-29-83
BEAM DETAILS		CONTRACT #	SHT. NO.
		1996	4

MCD 9-84



SHOP NOTE:
 ALL MAT'L. CHARPY V-NOTCH IMPACT REQ'D. EXCEPT SOLE PLATES

APPROVED

4		8	
3		7	
2	2-13-83	FAB/DIST	6
1	1-17-84	APPL	5
DATE	SENT FOR	DATE	SENT FOR
MUNSTER STEEL CO., INC. Fabricators of Structural and Miscellaneous Steel 9505 CALUMET AVE., MUNSTER, IND.			
PROJECT	DOUGLAS A. MAC ARTHUR BRIDGE DETROIT, MICHIGAN		
CUSTOMER	JUTTON-KELLY		
NO. 1316	BEAM DETAILS	CONTRACT	SHT. NO.
DRAWN DC	CHECKED	1996	5

FOR GEN. NOTES &
 FOR LOCATION SEE E2