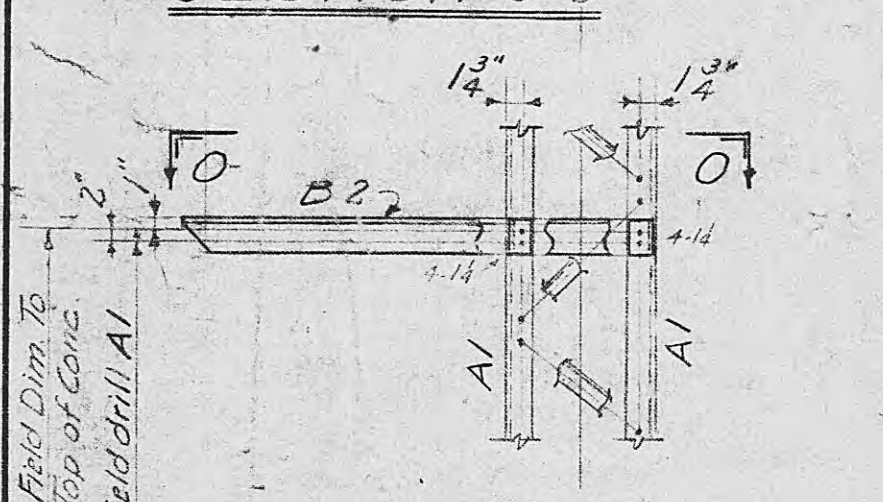
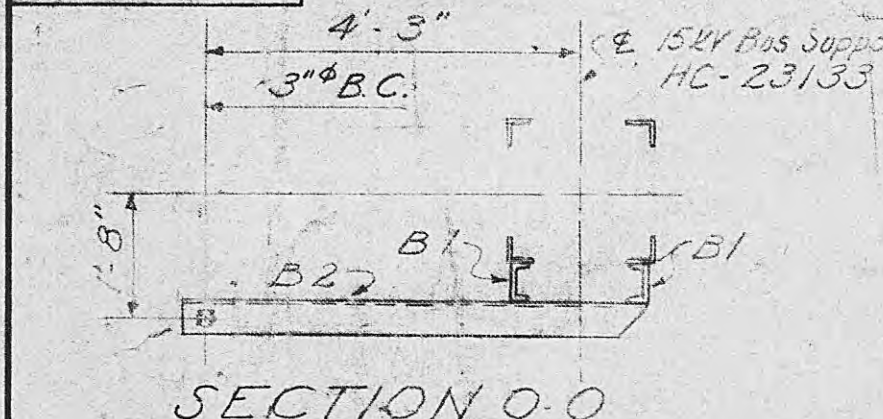
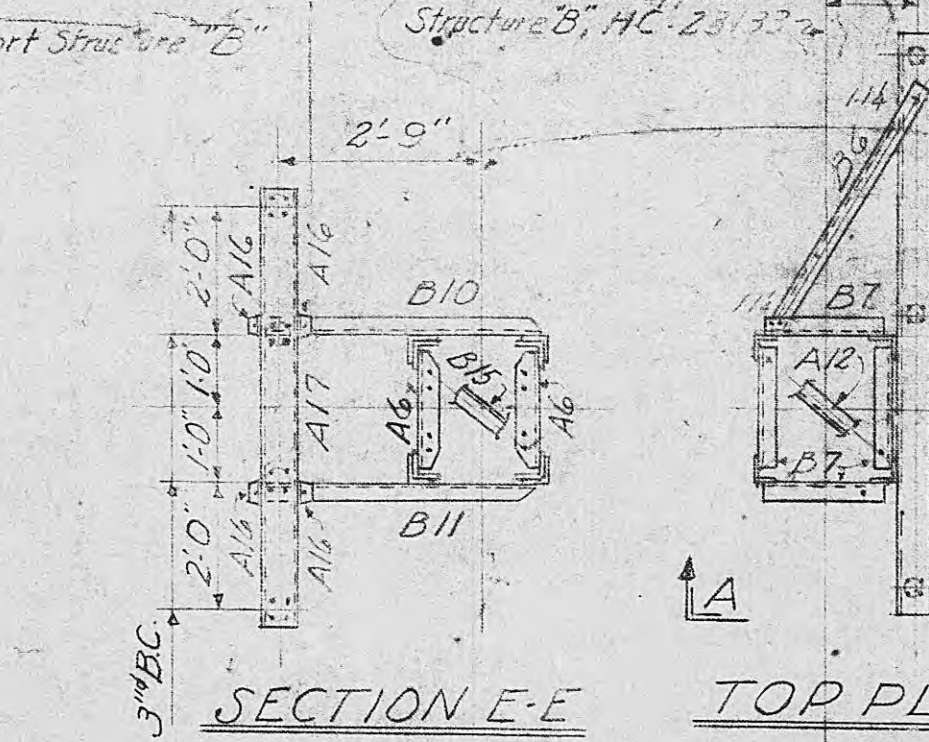


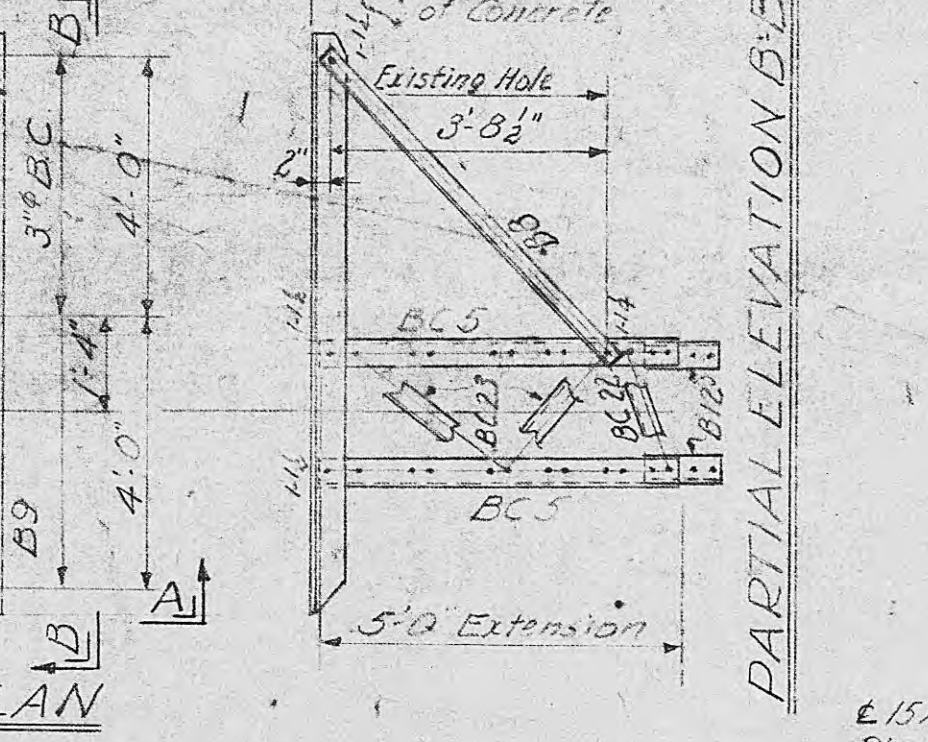
HC-37940



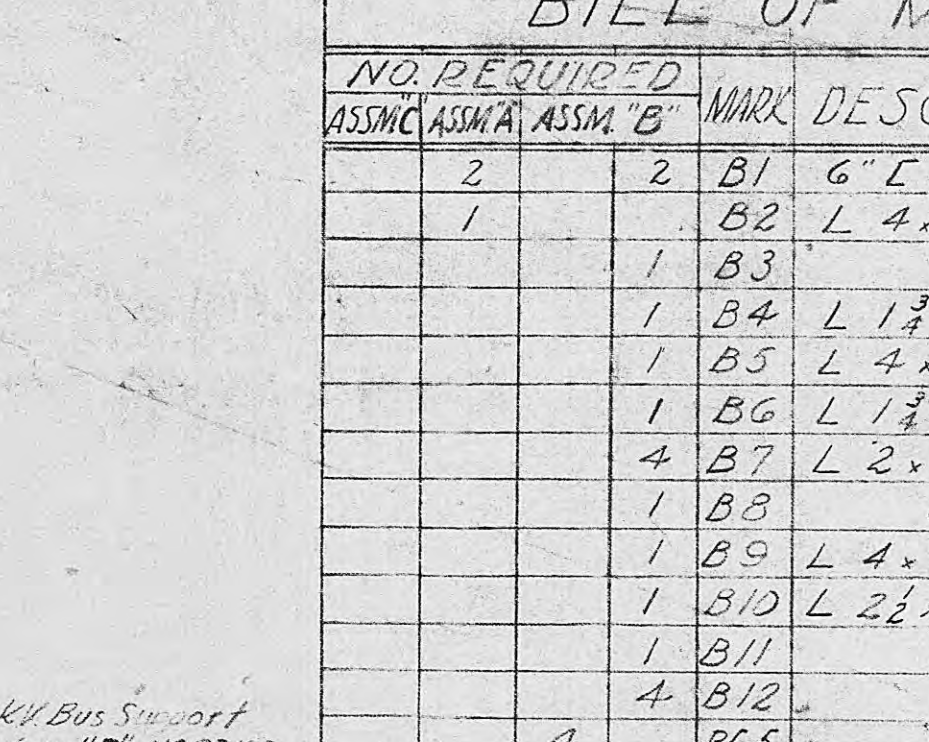
ASSEMBLY "A"



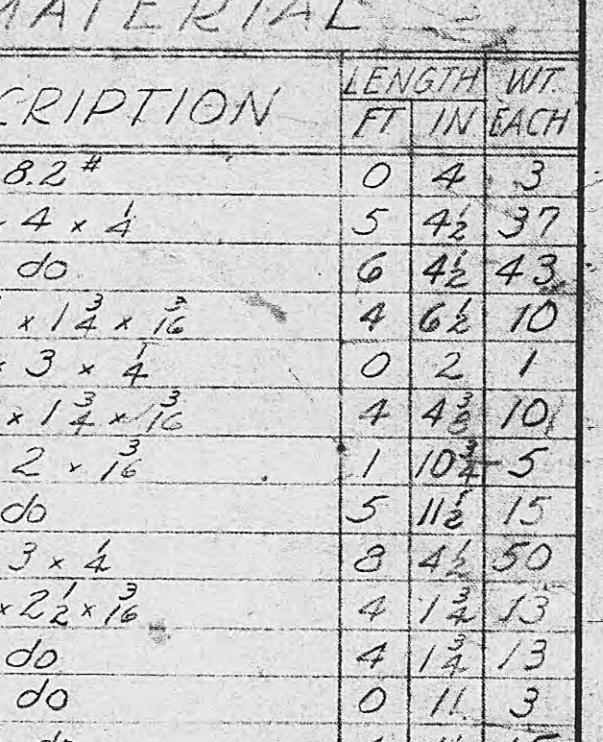
ASSEMBLY "B"



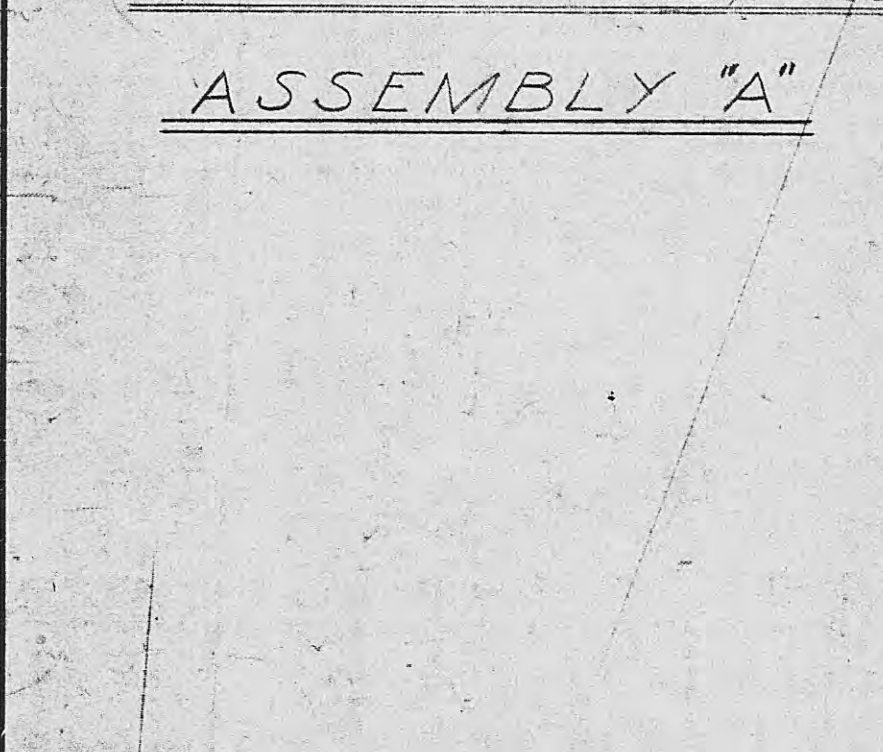
ASSEMBLY "C"



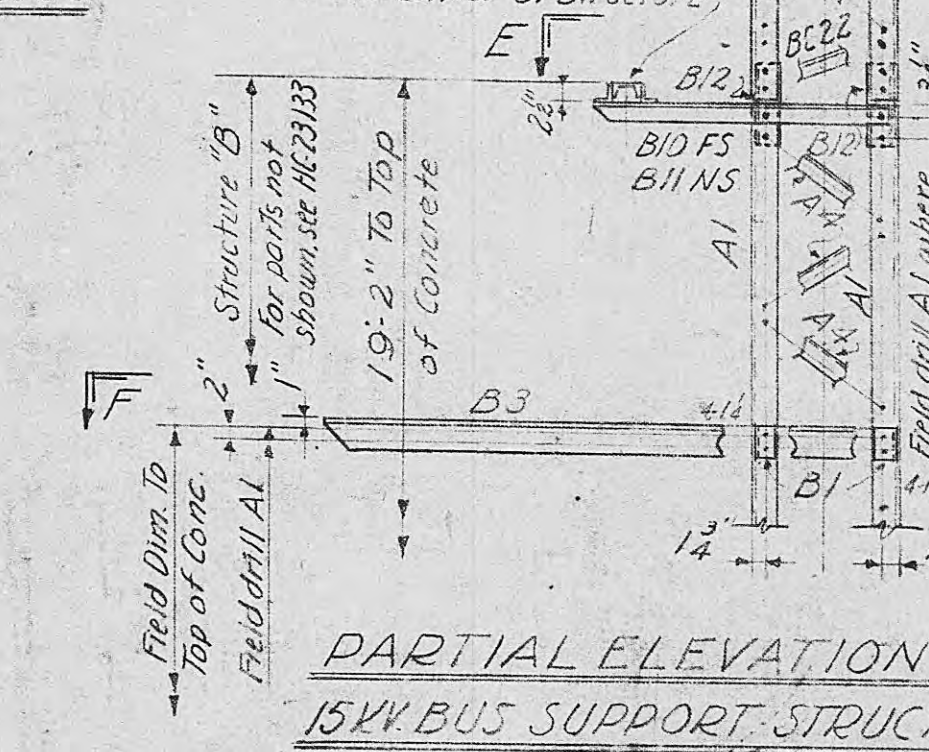
ASSEMBLY "D"



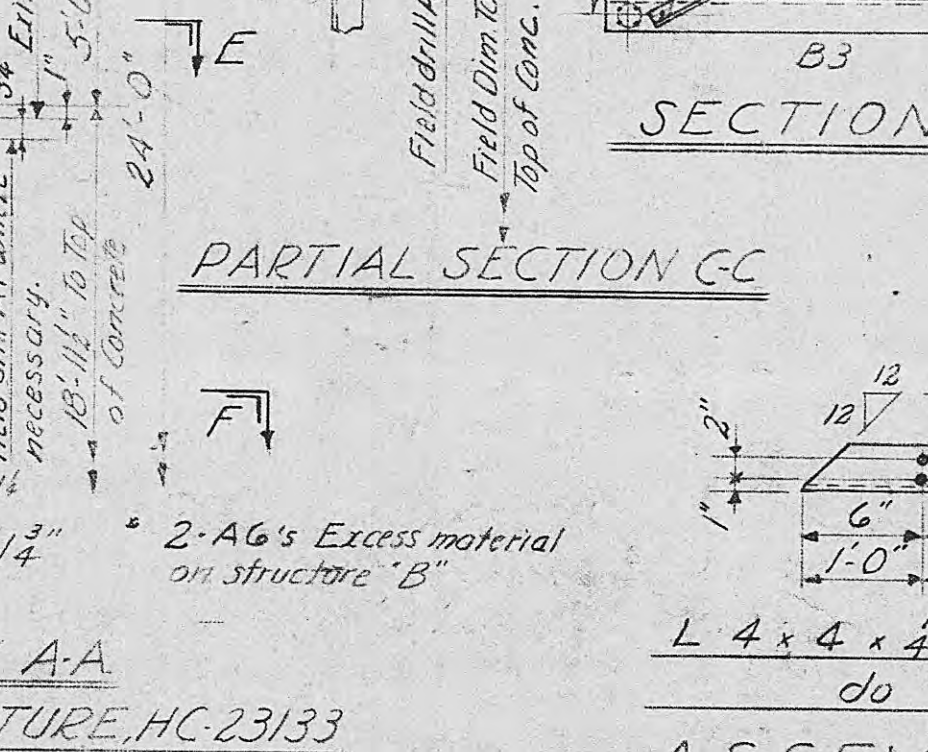
ASSEMBLY "E"



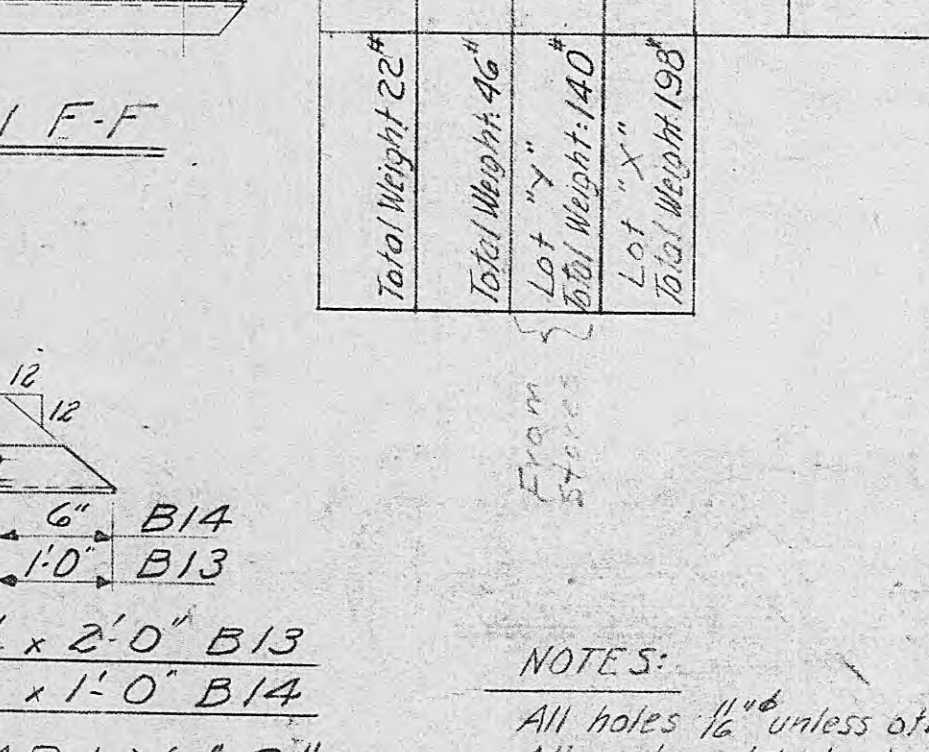
ASSEMBLY "F"



ASSEMBLY "G"



ASSEMBLY "H"



ASSEMBLY "I"

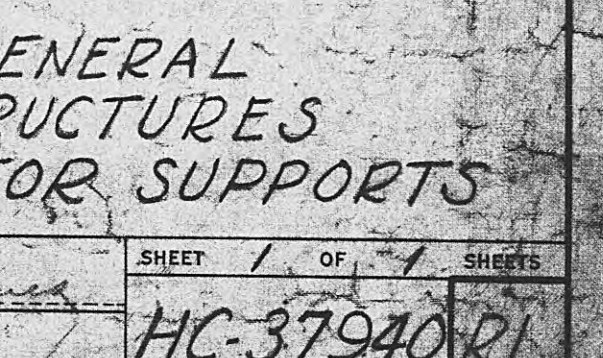
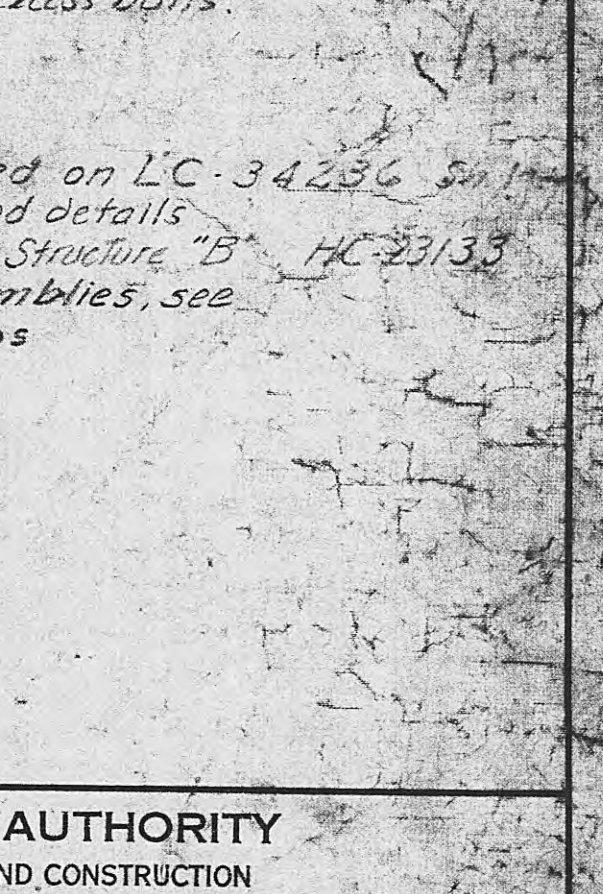
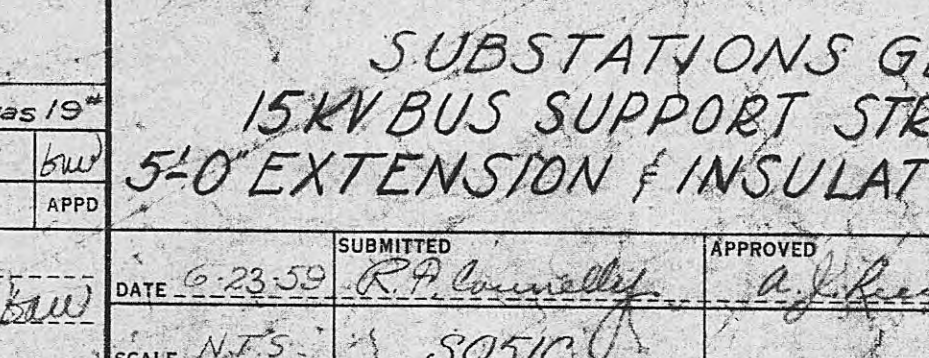
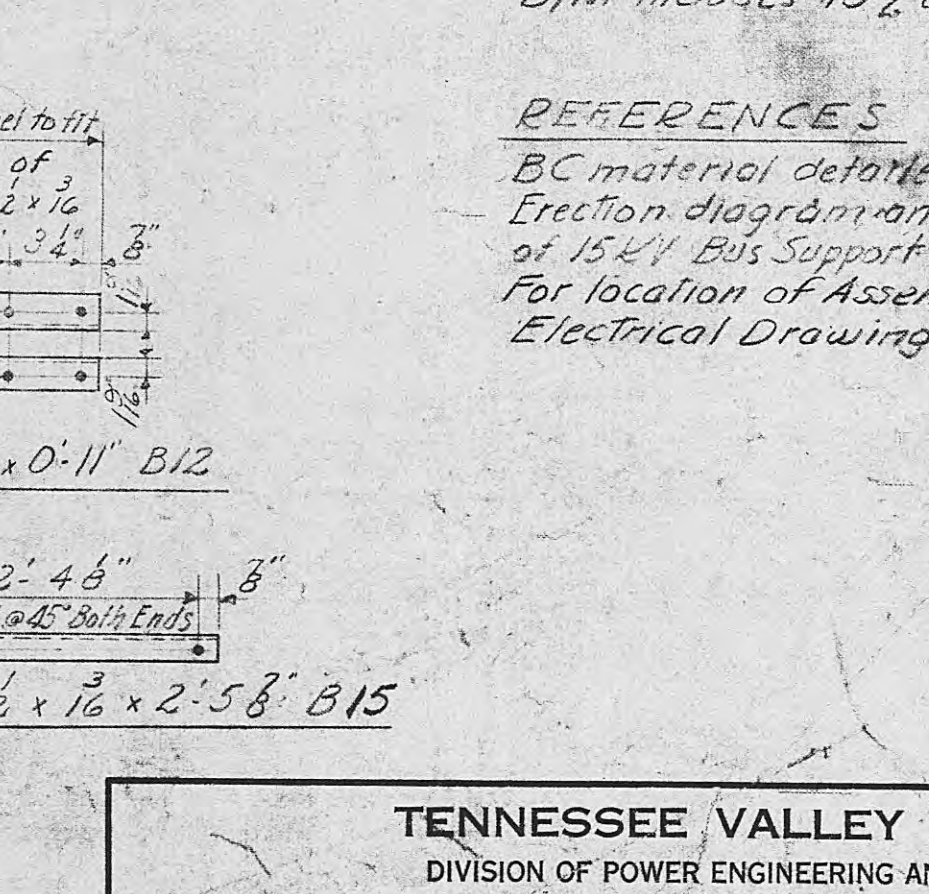
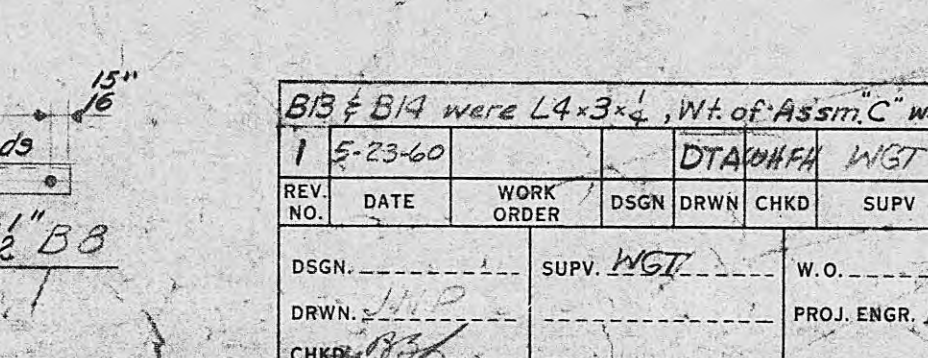
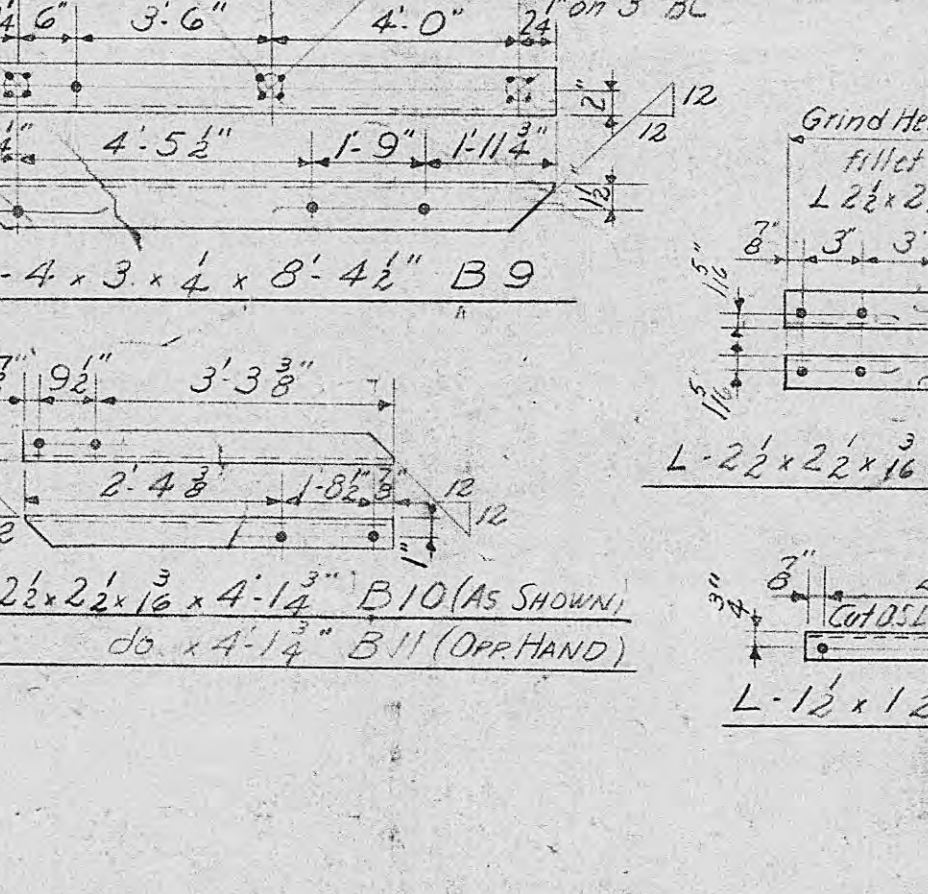
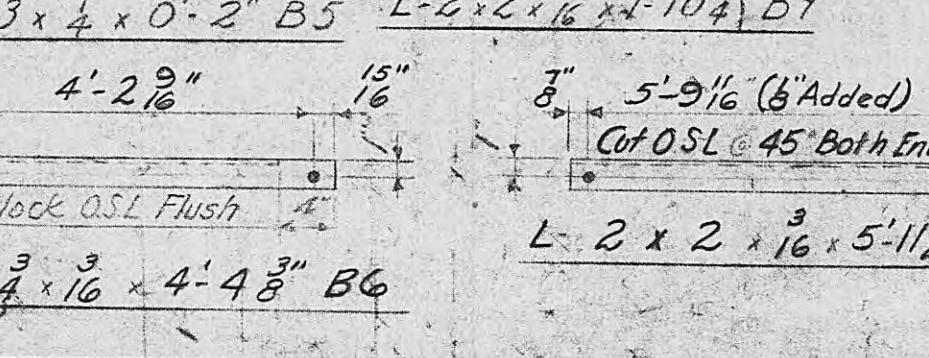
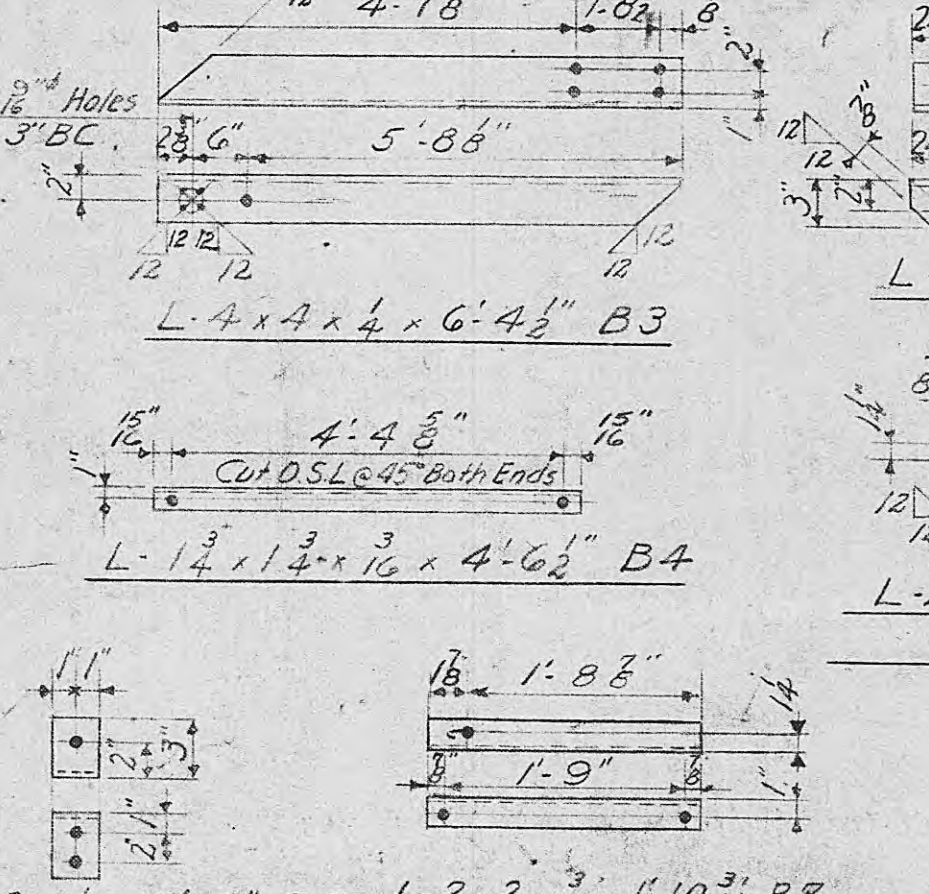
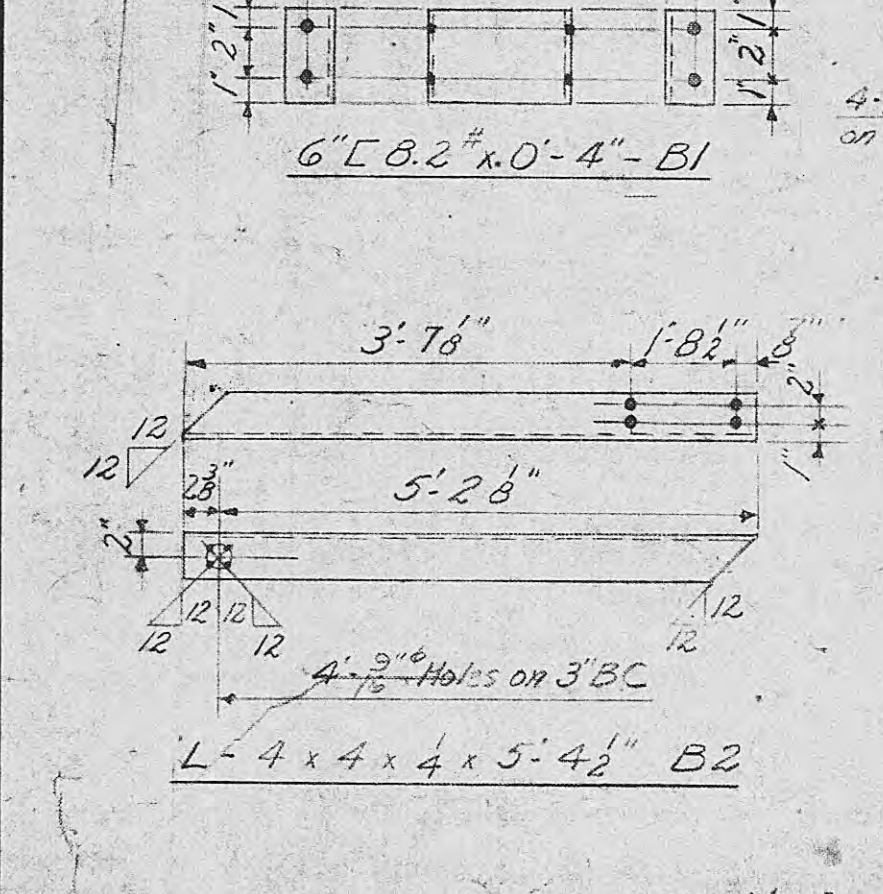


ASSEMBLY "J"

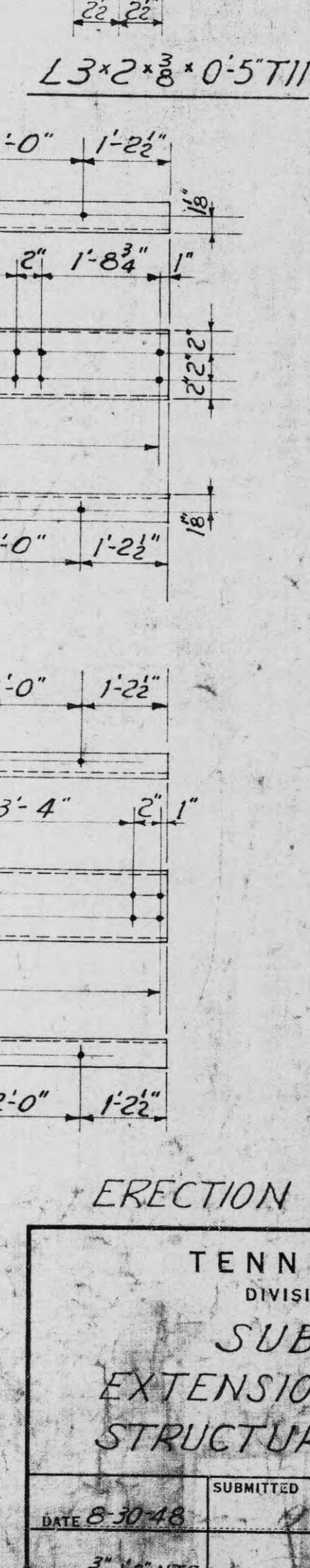
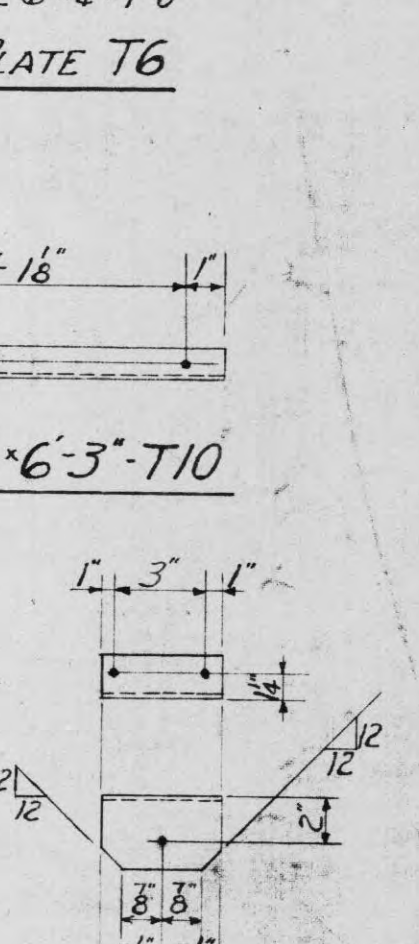
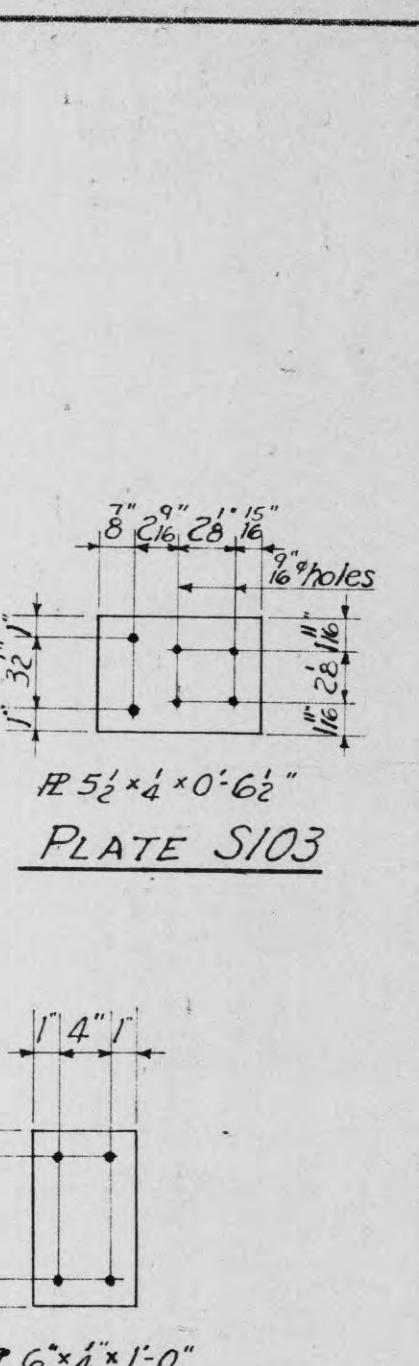
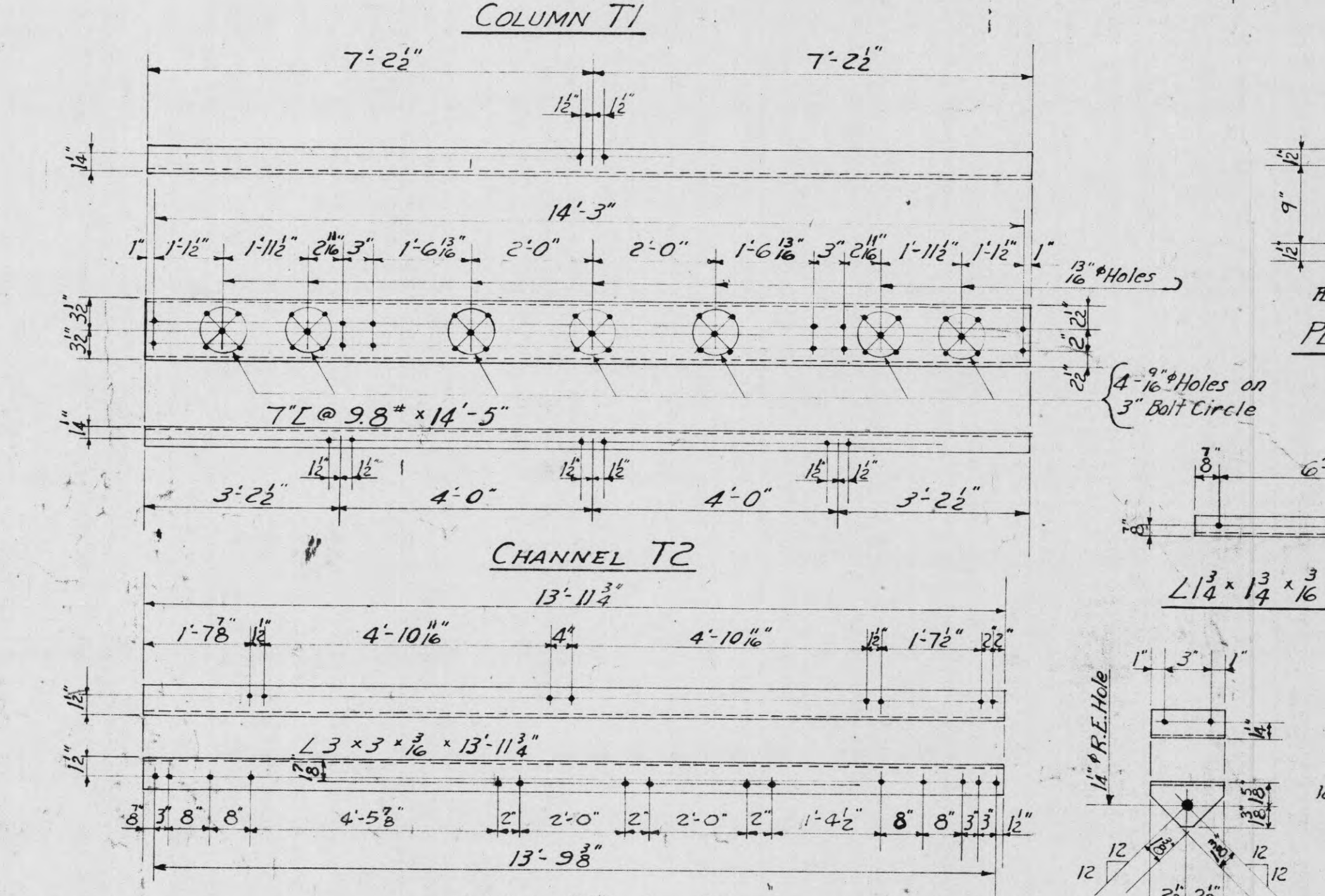
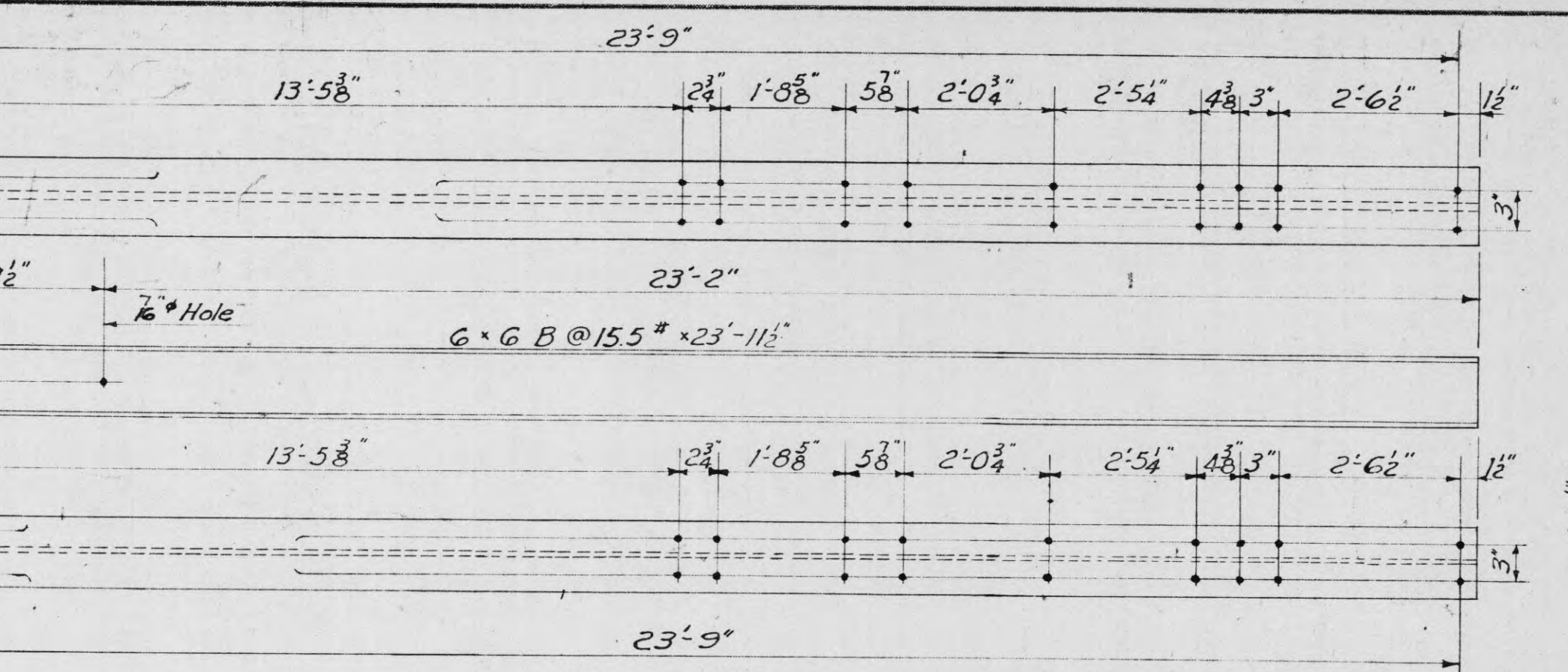
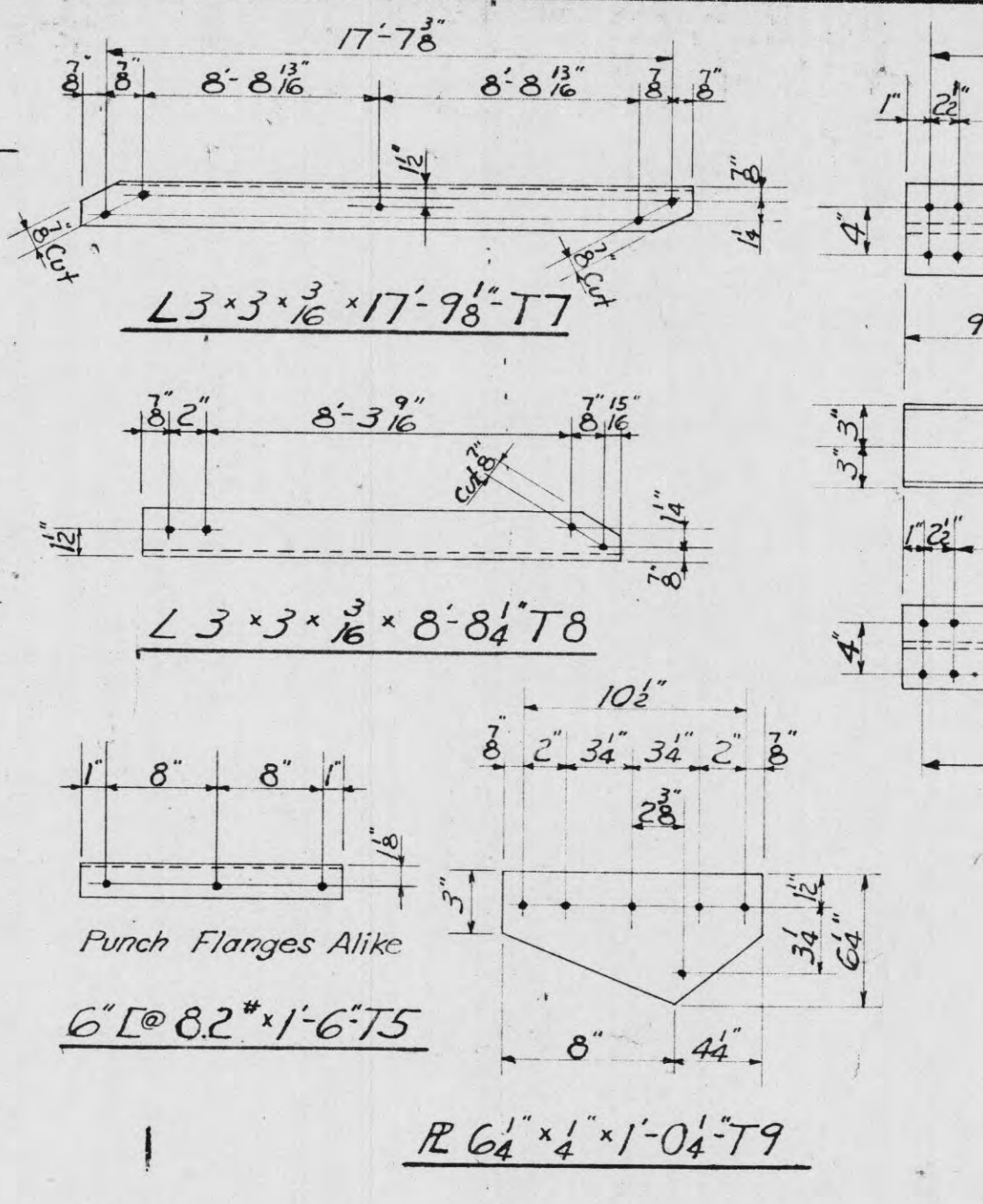
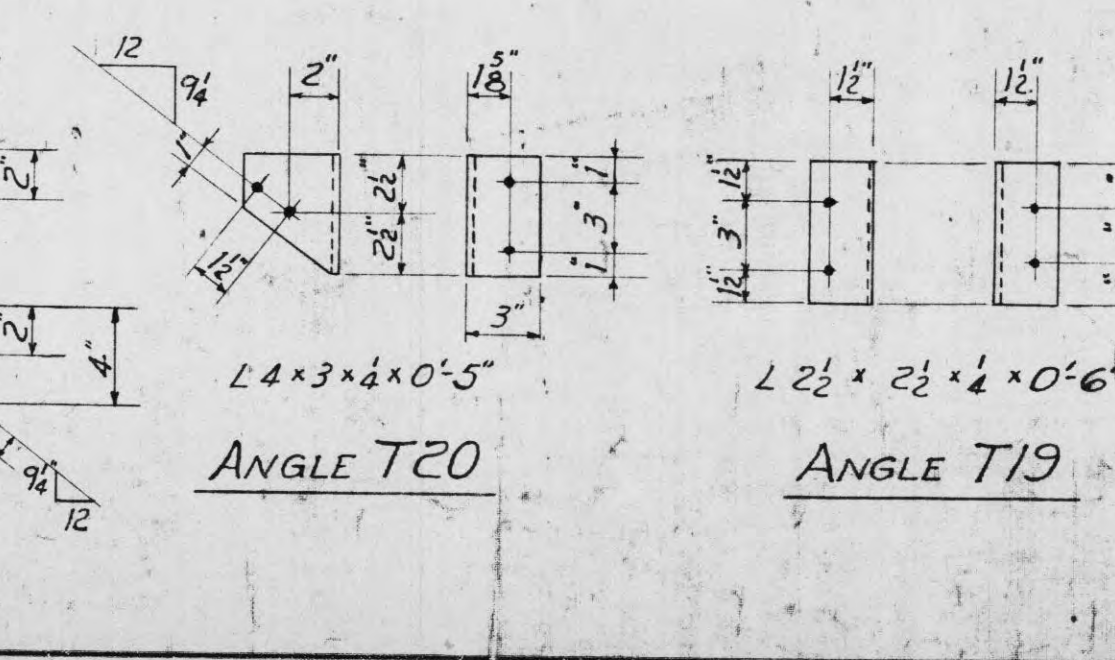
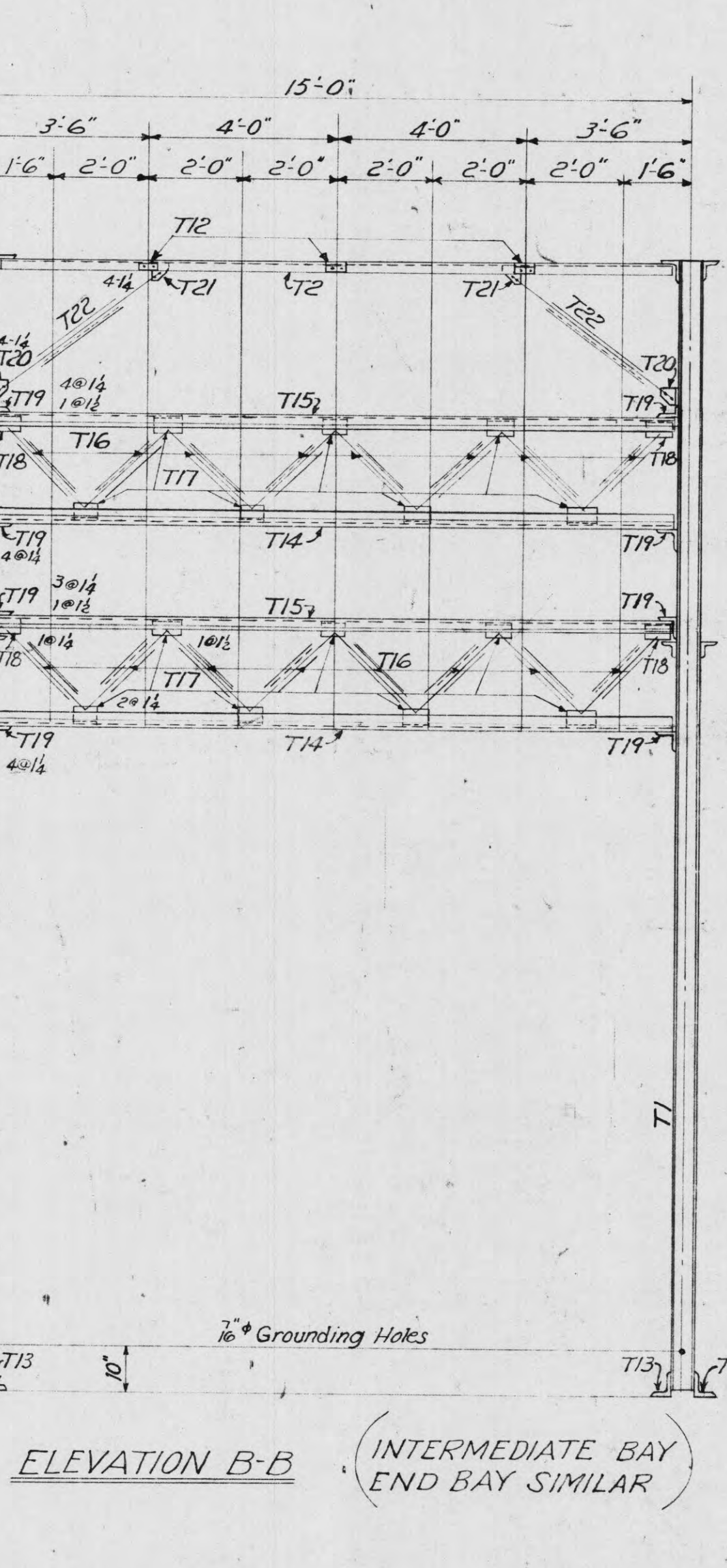
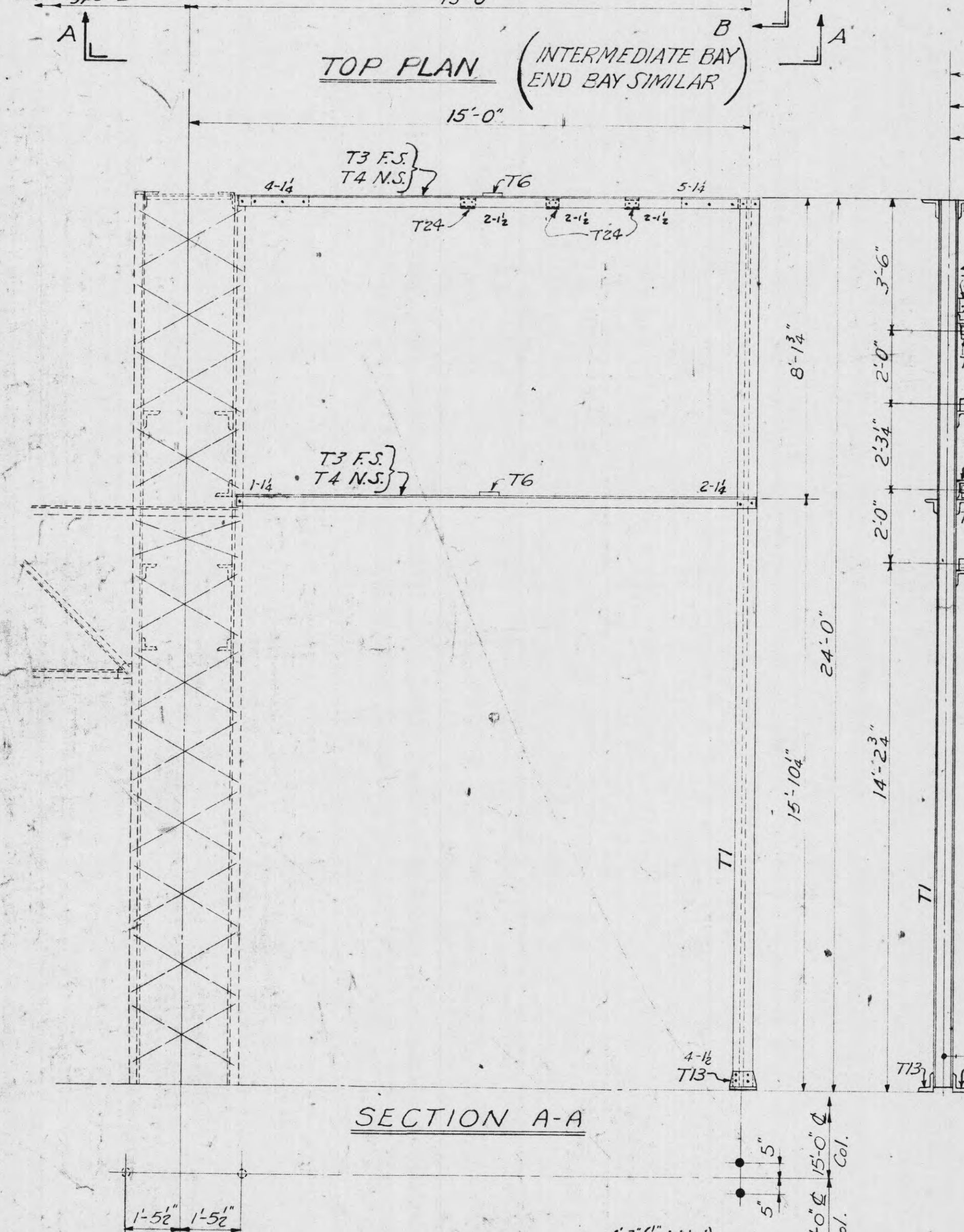
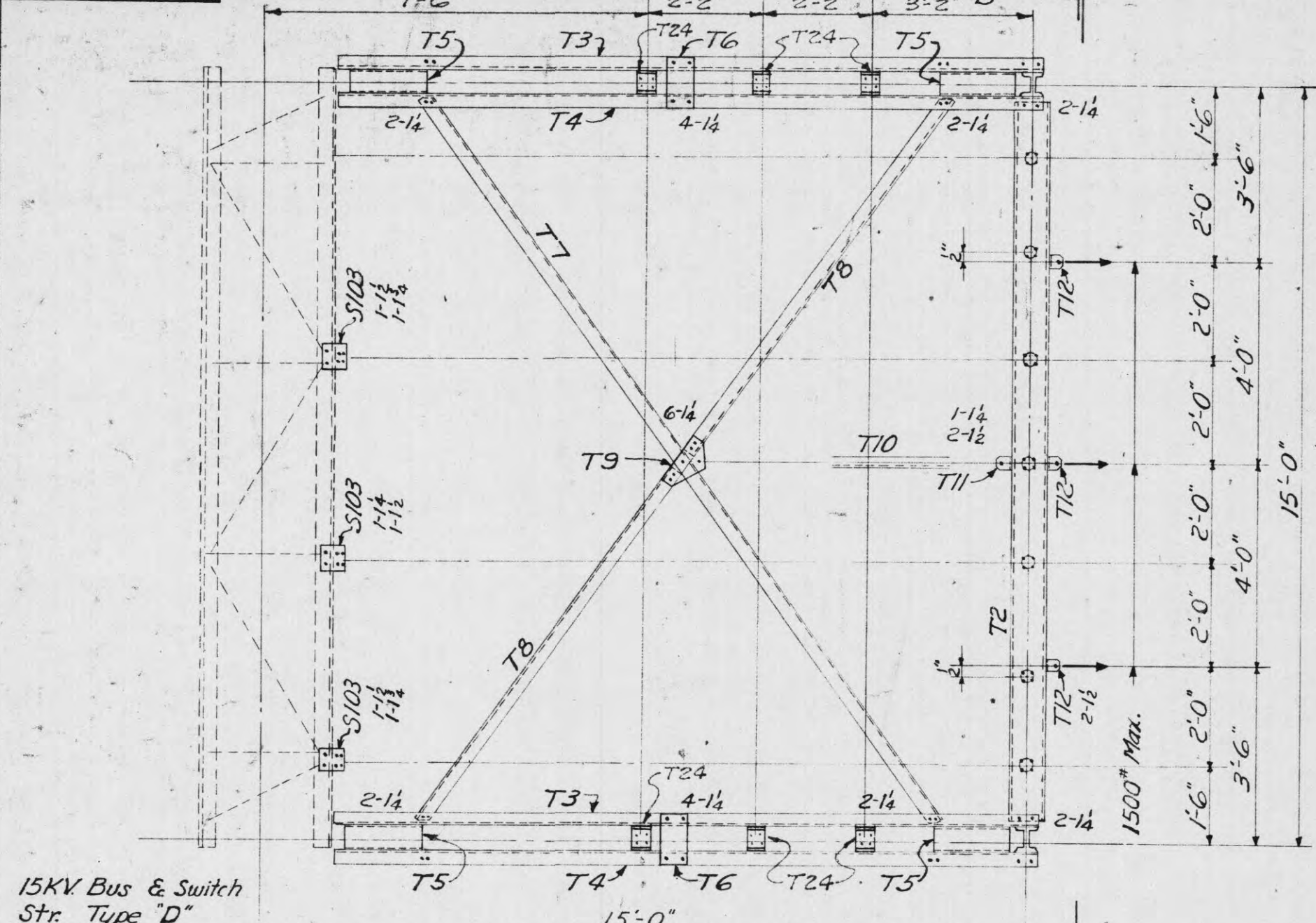
BILL OF MATERIAL					LENGTH		WT.
NO. REQUIRED	ASSM. A	ASSM. B	MARK	DESCRIPTION	FT	IN	
2		2	B1	6" L 8.2"	0	4	3
1		1	B2	L 4 x 4 x 4	5	4 1/2	37
		1	B3	do	6	4 1/2	43
		1	B4	L 1 1/2 x 1 1/2 x 1/2	4	6 1/2	10
		1	B5	L 4 x 3 x 4	0	2	1
		1	B6	L 1 1/2 x 1 1/2 x 1/2	4	4 1/2	10
		4	B7	L 2 x 2 x 1/2	1	10 1/2	5
		1	B8	do	5	11 1/2	15
		1	B9	L 4 x 3 x 4	8	4 1/2	50
		1	B10	L 2 1/2 x 2 1/2 x 1/2	4	1 1/2	13
		1	B11	do	4	1 1/2	13
		4	B12	do	0	11	3
		4	BC5	do	4	11	15
		4	BC22	L 1 1/2 x 1 1/2 x 1/2	2	0 1/2	4
		8	BC23	do	2	7 1/2	5
1			B13	L 4 x 4 x 4	2	0	14
1			B14	do	1	0	7
4	9	76	B15	L 1 1/2 x 1 1/2 x 1/2	2	5 1/2	3
				8" Bolts, Sq Hd. Hex. Nut, Std. Thrd	0	14	0.31
Total Weight 22#							
Total Weight 46#							
Lot "Y"							
Total Weight 140#							
Lot "X"							
Total Weight 198#							

NOTES:
 All holes 1/16" unless otherwise noted.
 All material to be hot-dip galvanized after fabrication.
 Piece marks to be die stamped before galvanizing.
 B/M includes 10% excess bolts.

REFERENCES
 BC material detailed on L.C. 34236
 Erection diagram and details of 15KV Bus Support Structure "B" HC-23133
 For location of Assemblies, see Electrical Drawings



L192257



BILL OF MATERIAL					
MARK	NO	RECD	DESCRIPTION	LENGTH	WT.
				FT	IN.
T1	2	1	6"CB @ 15.5 #	23	11 1/2
T2	1	1	7"LB @ 9.8 #	14	5
T3	4	2	L3 x 3 x 1/8	13	11 1/2
T4	4	2	Do	13	11 1/2
T5	4	2	6"LB @ 8.2 #	1	6
T6	4	2	R 6 x 4	1	0
T7	1	1	L3 x 3 x 1/8	17	9 1/2
T8	2	2	Do	8	3 1/2
T9	1	1	R 6 1/4 x 4	1	0 1/2
T10	1	1	L1 1/2 x 1 1/4 x 1/8	6	3
T11	1	1	L3 x 2 x 3/8	0	5
T12	3	3	Do	0	5
T13	4	2	L5 x 3 1/2 x 3/8	0	8
T14	2	2	6"LB @ 8.2 #	14	5
T15	2	2	Do	14	5
T16	16	16	L1 1/2 x 1 1/4 x 1/8	2	8 1/2
T17	14	14	L3 x 2 x 1/4	0	4
T18	4	4	Do	0	4
T19	8	8	L2 1/2 x 2 1/2 x 1/4	0	6
T20	2	2	L4 x 3 x 1/4	0	5
T21	2	2	L4 x 2 x 1/4	0	5
T22	2	2	L1 1/2 x 1 1/4 x 1/8	4	5
T23	4	2	1" Anchor Bolt with 2 Hex. Nuts	3	9
T24	6	3	6"LB @ 8.2 #	0	4
S103	3		R 5 1/2 x 4	0	6 1/2
174	145		5/8" Bolts	0	1 1/2
72	48		Do.	0	1 1/2
INTERMEDIATE BAY Total Wt. 2388 #					
END BAY Total Wt. 1683 #					
Total					

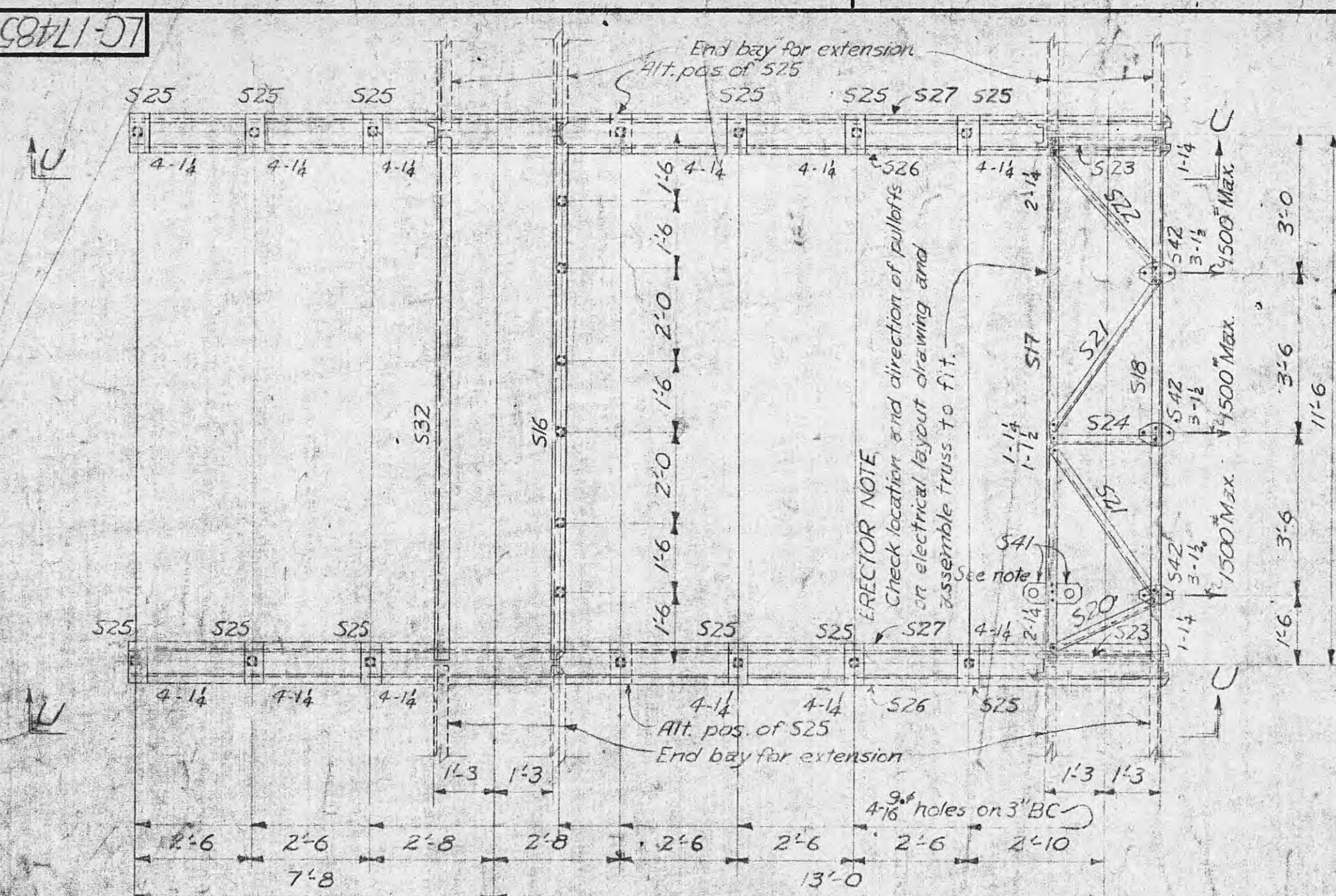
NOTES:
All holes 1/8" unless otherwise noted.
Bolts 5/8"
Material to be hot dip galvanized after fabrication.
Piece marks to be die-stamped before galvanizing.
10% excess bolts included in B/M.

REFERENCE:
Erection Diagram & Details of 15KV Bus & Switch Structure Type "D".....LC-22616, LC-28012
Foundation Dwg.....SC-3709
Alternate Assembly of Elevation B-B.....HC-29655

Added T24. Revised Bolt weights Total Wt. Inter. Bay was 2371 # Total Wt. End Bay was 1683 #					
7	15	2	DTA	JBR	WLT
Traced-Omitted S103 & S102-chord bolts wts. Wt of end bay was 1675 # Int bay was 2501 # For Rev. 1 thru 5 see superseding dwgs.					
6	8-19-54		K.B.	DL	G.M.W. R.F.C.
REV.	DATE	WORK ORDER	DSGN	DRWN	CHKD
NO.					
DSGN	OKC	SUPV.		W.O.	
DRWN	R.F.C.			PROJ. ENGR.	
CHKD					

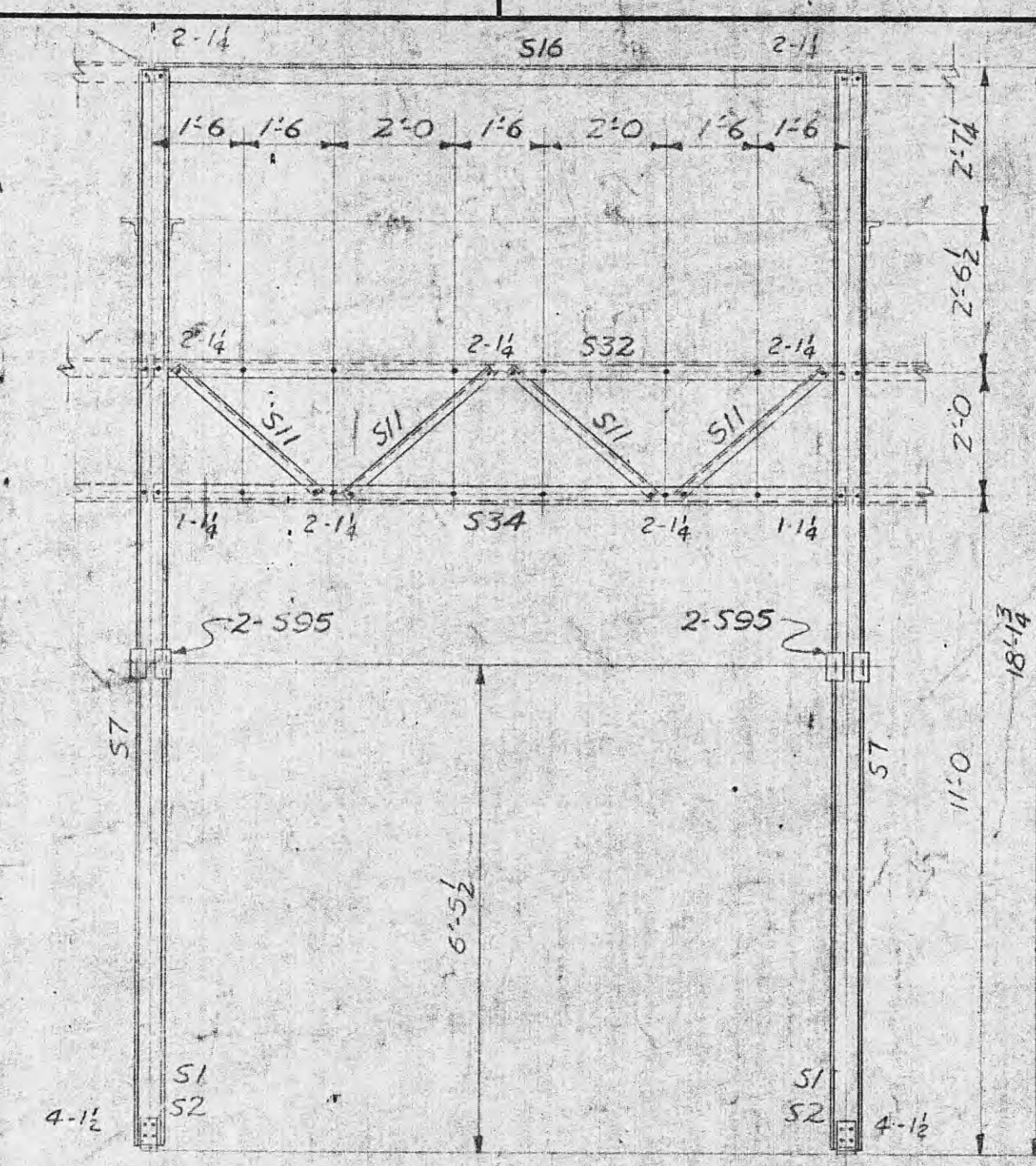
TENNESSEE VALLEY AUTHORITY DIVISION OF POWER ENGINEERING AND CONSTRUCTION			
SUBSTATIONS GENERAL			
EXTENSION TO 15KV BUS AND SWITCH			
STRUCTURE TYPE "D" FOR REGULATOR			
DATE 8-30-48	SUBMITTED	APPROVED	SHEET 7 OF 7 SHEETS
SCALE 1/8" = 1'-0"			LC-22617

LC-1485

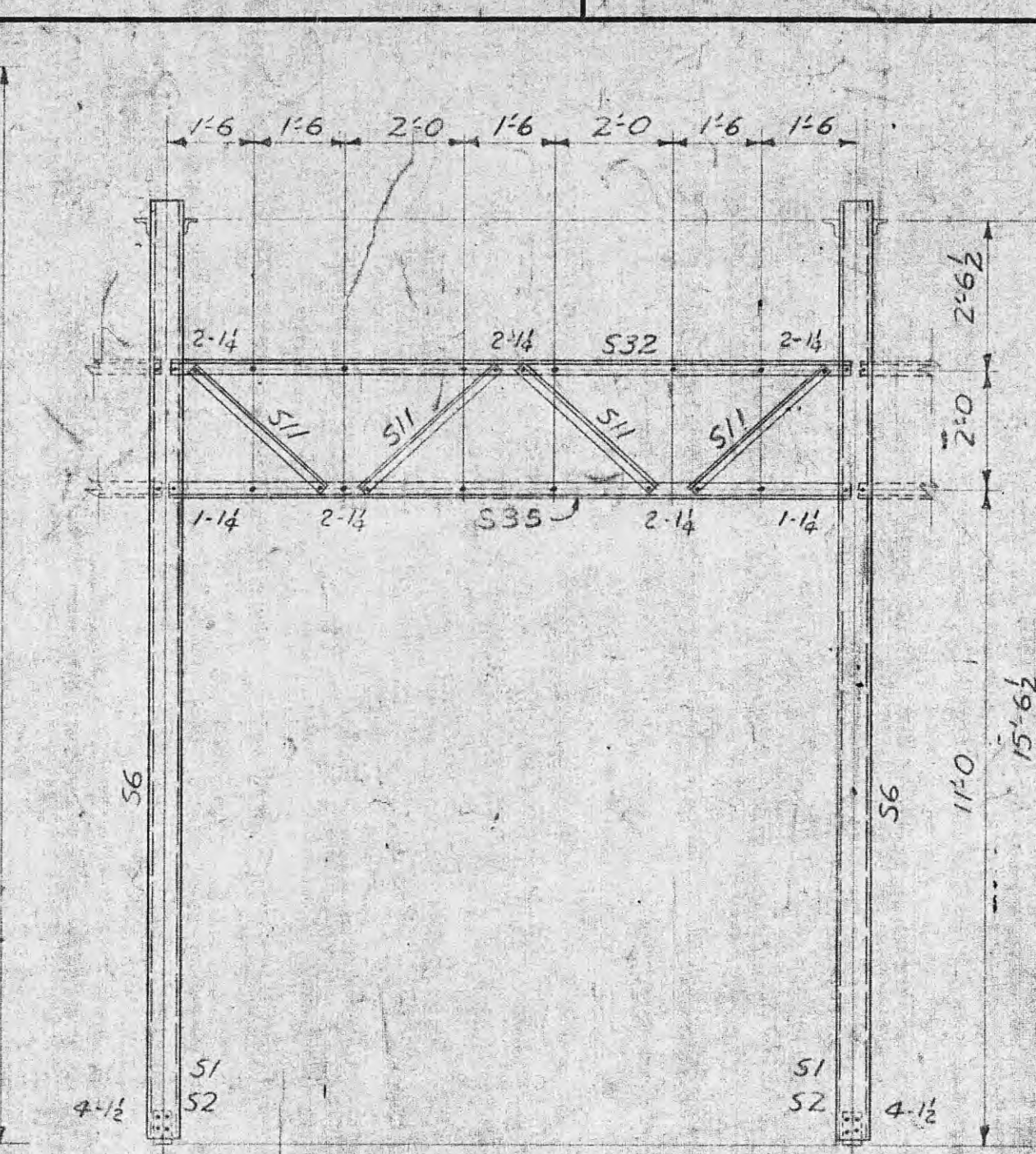


PLAN

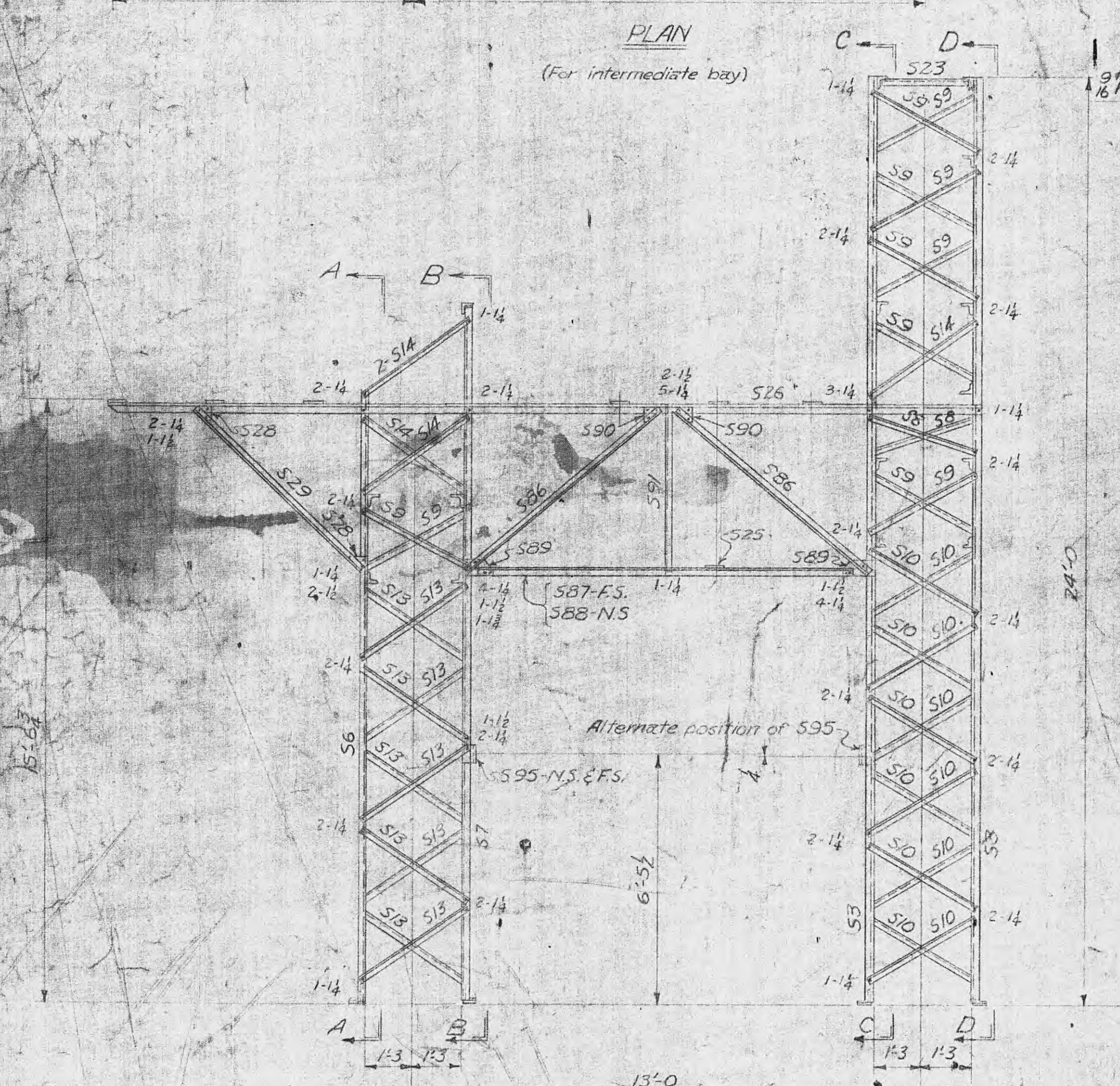
(For intermediate bay)



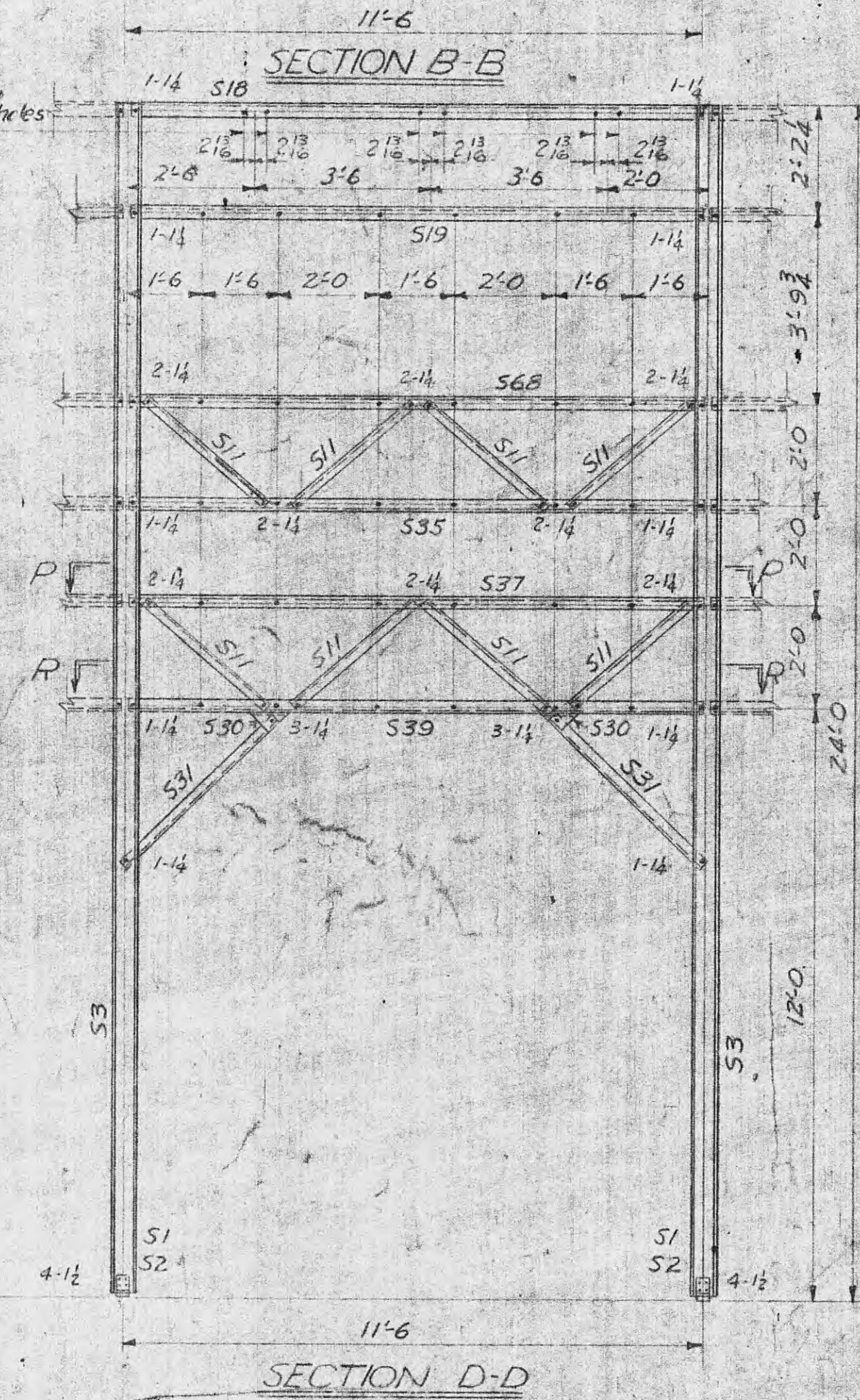
SECTION B-B



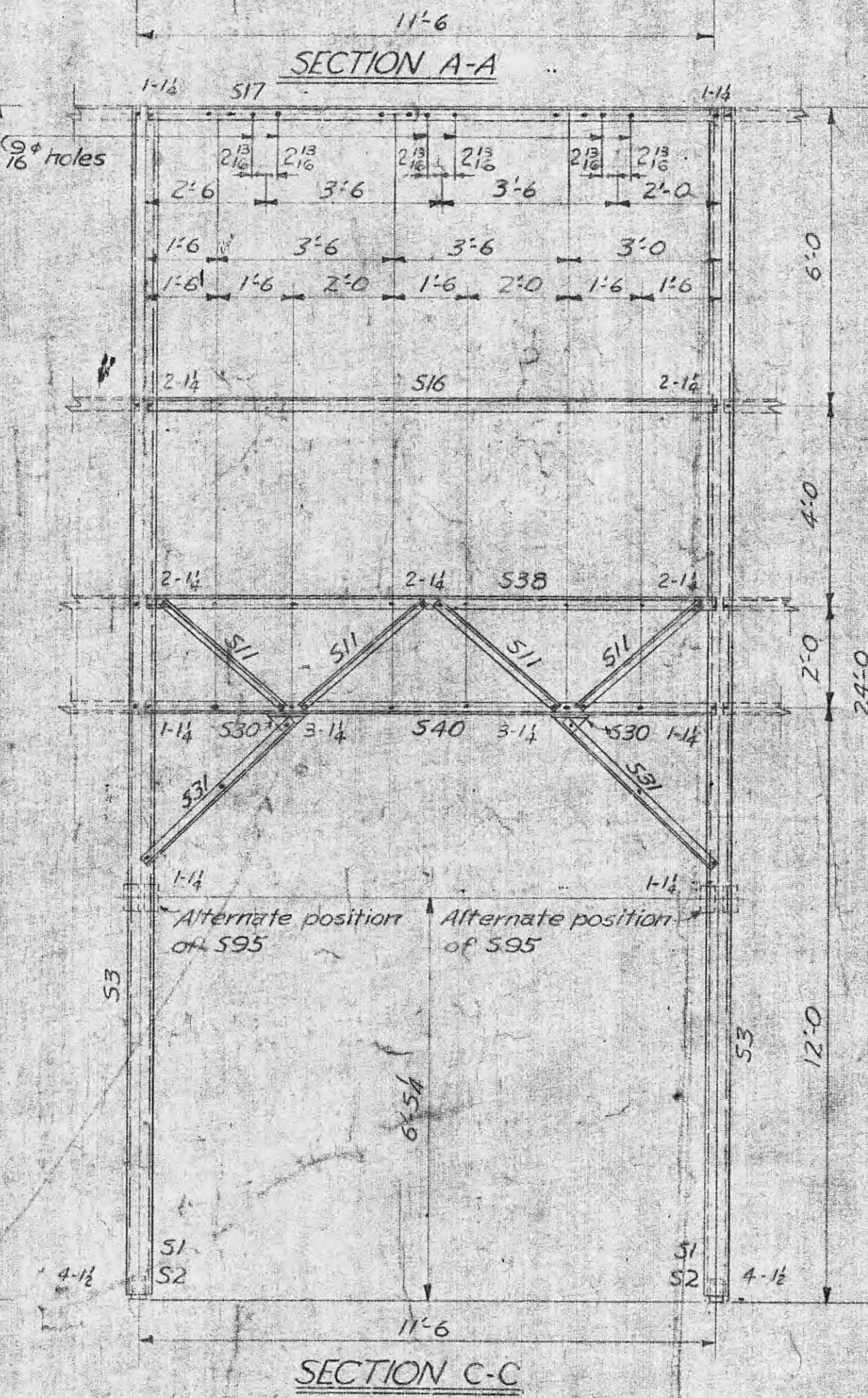
SECTION A-A



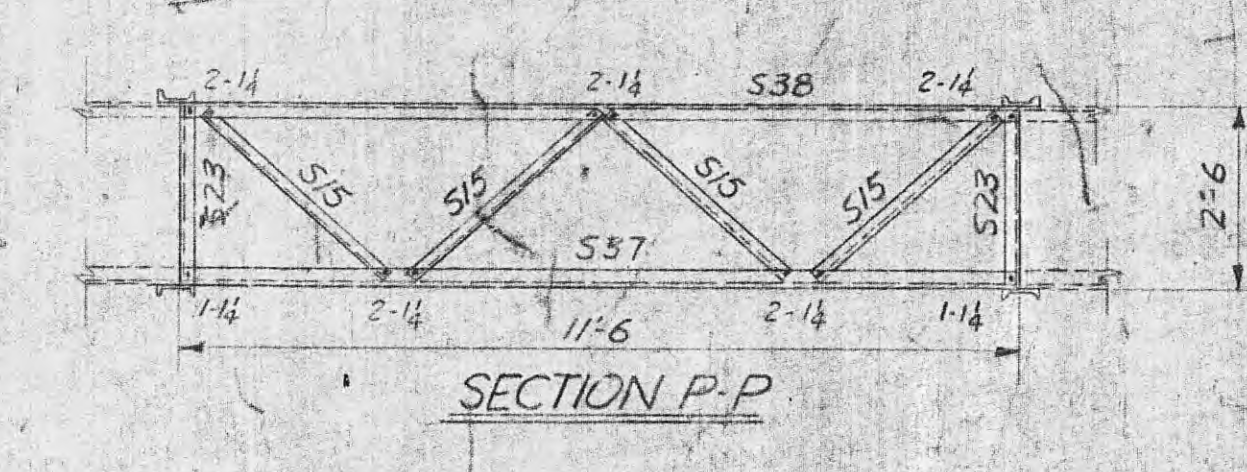
SECTION U-U



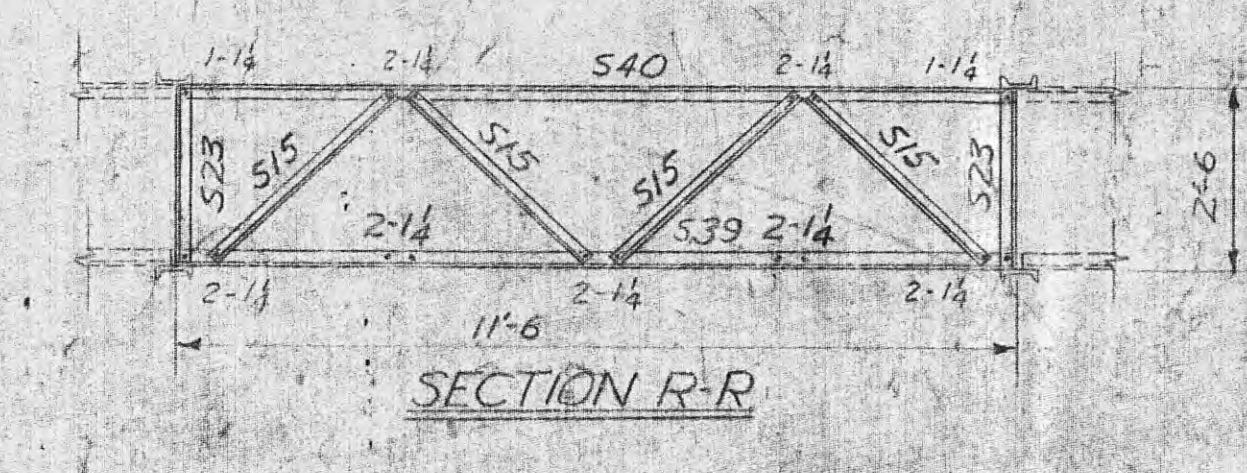
SECTION D-D



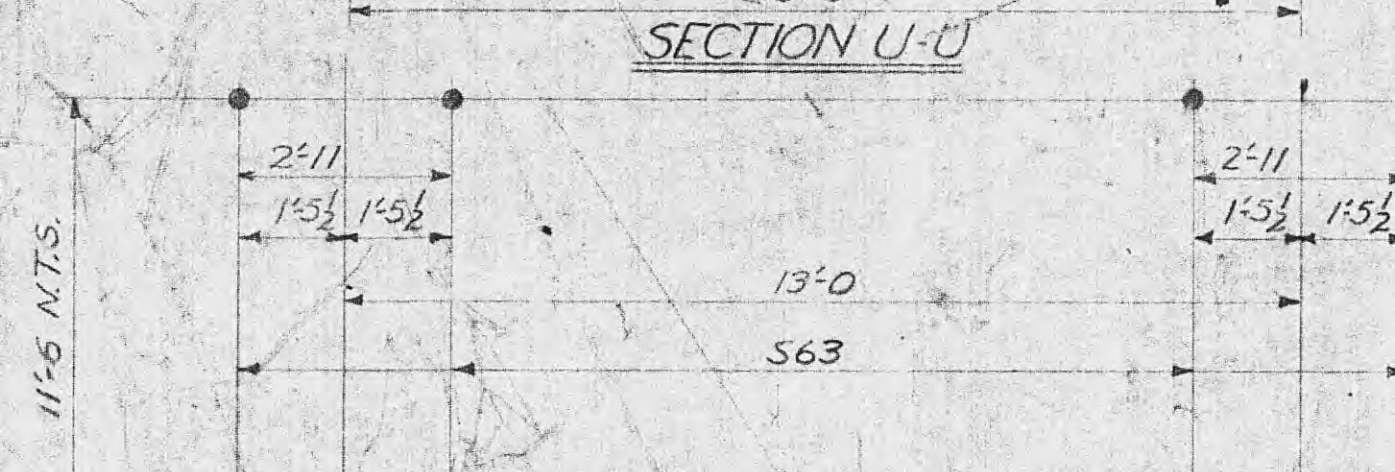
SECTION C-C



SECTION P-P



SECTION R-R



ANCHOR BOLT PLAN

BILL OF MATERIAL						
MARK	No. RECD		DESCRIPTION	LENGTH		WEIGHT EACH
	ONE INVENTORY B-Y	ONE END ONLY		FT	IN	
S1	5	4	L-8X2X $\frac{1}{2}$	0	4 $\frac{1}{2}$	6
S2	5	4	Plate-4X $\frac{1}{2}$	0	3 $\frac{1}{2}$	2
S3	4	2	6"L-8.2"	23	1 $\frac{1}{2}$	202
S6	2	1	6"L-8.2"	15	9 $\frac{1}{2}$	134
S7	2	1	Do.	18	0 $\frac{1}{2}$	153
S8	4	2	L-1 $\frac{1}{2}$ X1 $\frac{1}{2}$ X $\frac{1}{2}$	2	11 $\frac{1}{2}$	6
S9	22	11	Do.	3	2 $\frac{1}{2}$	75
S10	24	12	Do.	3	3 $\frac{1}{2}$	6
S11	20	20	Do.	5	2 $\frac{1}{2}$	6
S13	20	10	L-1 $\frac{1}{2}$ X1 $\frac{1}{2}$ X $\frac{1}{2}$	3	4 $\frac{1}{2}$	6
S14	10	5	Do.	3	5 $\frac{1}{2}$	6
S15	8	8	Do.	3	5 $\frac{1}{2}$	6
S16	2	2	L-4X4X $\frac{1}{2}$	11	5 $\frac{1}{2}$	75
S17	1	1	L-3 $\frac{1}{2}$ X3X $\frac{1}{2}$	11	5 $\frac{1}{2}$	64
S18	1	1	Do.	11	5 $\frac{1}{2}$	64
S19	1	1	Do.	11	5 $\frac{1}{2}$	64
S20	1	1	L-1 $\frac{1}{2}$ X1 $\frac{1}{2}$ X $\frac{1}{2}$	2	6 $\frac{1}{2}$	6
S21	2	2	Do.	4	0 $\frac{1}{2}$	9
S22	1	1	Do.	5	5 $\frac{1}{2}$	8
S23	6	6	L-1 $\frac{1}{2}$ X1 $\frac{1}{2}$ X $\frac{1}{2}$	2	4 $\frac{1}{2}$	4
S24	1	1	L-2X2X $\frac{1}{2}$	2	4 $\frac{1}{2}$	6
S25	14	7	Plate 5X $\frac{1}{2}$	0	10	4
S26	2	1	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	22	5 $\frac{1}{2}$	44
S27	2	1	Do.	22	5 $\frac{1}{2}$	44
S28	8	4	Plate-5X $\frac{1}{2}$	0	5	2
S29	4	2	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	6	1 $\frac{1}{2}$	13
S30	4	4	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	0	3	1
S31	4	4	L-2X2X $\frac{1}{2}$	4	3 $\frac{1}{2}$	4
S32	2	21	L-3 $\frac{1}{2}$ X3X $\frac{1}{2}$	11	5 $\frac{1}{2}$	84
S34	1	1	L-3 $\frac{1}{2}$ X3X $\frac{1}{2}$	11	5 $\frac{1}{2}$	64
S35	2	2	Do.	11	5 $\frac{1}{2}$	64
S37	1	1	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	11	5 $\frac{1}{2}$	36
S38	1	1	Do.	11	5 $\frac{1}{2}$	36
S39	1	1	Do.	11	5 $\frac{1}{2}$	36
S40	1	1	Do.	11	5 $\frac{1}{2}$	36
S41	3	3	Plate-5X $\frac{1}{2}$	0	6 $\frac{1}{2}$	4
S42	3	3	Plate-5 $\frac{1}{2}$ X $\frac{1}{2}$	0	8 $\frac{1}{2}$	2
S63	8	4	1 $\frac{1}{2}$ "x4" anchor bolts, 20x1x1 $\frac{1}{2}$	3	4	144
S68	1	1	L-3 $\frac{1}{2}$ X3X $\frac{1}{2}$	11	5 $\frac{1}{2}$	64
S66	8	4	L-2X2X $\frac{1}{2}$	6	7 $\frac{1}{2}$	80
S87	2	1	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	9	7 $\frac{1}{2}$	28
S88	2	1	Do.	9	7 $\frac{1}{2}$	28
S89	8	4	Plate-5X $\frac{1}{2}$	0	9	4
S90	8	4	Do.	0	4 $\frac{1}{2}$	2
S91	4	2	L-2X2X $\frac{1}{2}$	4	4	11
S95	4	2	L-2 $\frac{1}{2}$ X2X $\frac{1}{2}$	5	6 $\frac{1}{2}$	2
445	283		3" Bolts	0	14	627
77	48		Do.	0	12	624
5	3		Do.	0	12	624

NOTES

11/8 Holes unless otherwise noted.
8 Bolts unless noted.
Material to be hot-dip galvanized after fabrication.
Piece marks to be die-stamped before galvanizing.
For location of S41, see electrical drawing.
Bill of materials includes 10% excess bolts.

REFERENCES:

Foundation Dwg. - HC 7645, footing A.
Foundation Dwg. - MC-19168, MC-19168
Exfn. for Regulator - LC 17713, LC 21730

ERECTION DIAGRAM

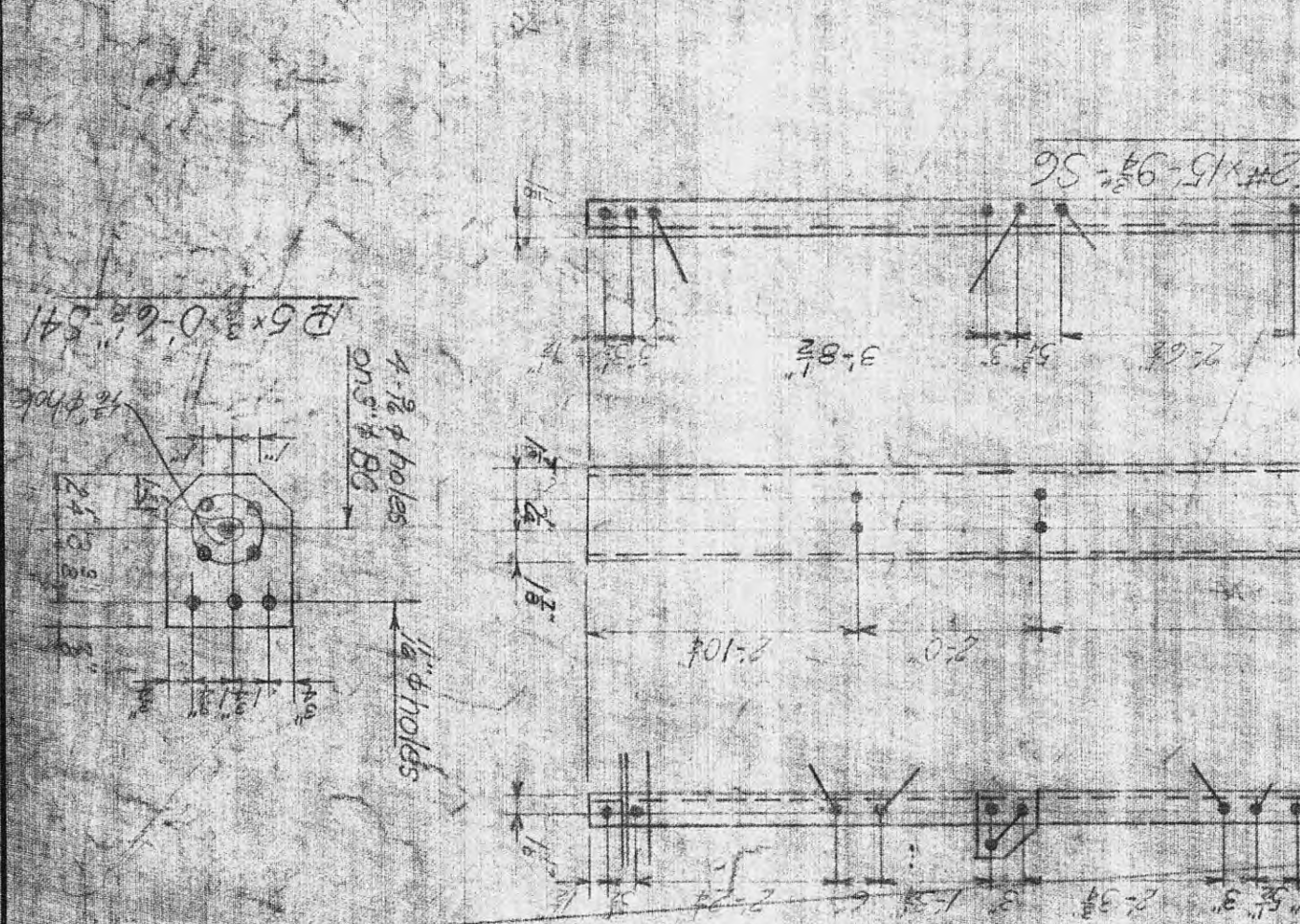
TENNESSEE VALLEY AUTHORITY
 DIVISION OF POWER PLANNING AND ENGINEERING
 SUBSTATIONS GENERAL
 15 KV BUS AND SWITCH STRUCTURE
 TYPE "B"

9	Revised Bolt Weights							
	Total weight Inter. Bag was 4000							
	Total weight End Bag was 2600							
	2/15/68		DTA JBR		CVR		W	
	Redrawn							
8	12-1-66				LIE/BOU			W
REV.	DATE	WORK ORDER	DESIGN	DRAWN	CHECKED	SUPV.		APP.
DSGN.		SUPV.				W.O.		
DRAWN						PROJ. ENGR.		
CHKD.								

	SUBMITTED	APPROVED	SHEET 1 OF 2	SHEET
DATE 10-10-18	CLASS CODE		LC-17485	R-9
SCALE NONE				

These details are copied from LC-17485, sheets 1 & 2.
 Place marks to be die stamped before galvanizing.
 Material shall be hot dip galvanized after fabrication.
 All holes & units otherwise noted.

NOTES:
 All holes & units otherwise noted.
 Material shall be hot dip galvanized after fabrication.
 Place marks to be die stamped before galvanizing.
 These details are copied from LC-17485, sheets 1 & 2.



MARK ONE	INTERIOR END	MARK TWO
S1	8	4
S2	8	4
S3	4	2
S4	2	1
S5	2	1
S6	2	1
S7	2	1
S8	2	1
S9	2	1
S10	2	1
S11	2	1
S12	2	1
S13	2	1
S14	2	1
S15	2	1
S16	2	1
S17	2	1
S18	2	1
S19	2	1
S20	2	1
S21	2	1
S22	2	1
S23	2	1
S24	2	1
S25	2	1
S26	2	1
S27	2	1
S28	2	1
S29	2	1
S30	2	1
S31	2	1
S32	2	1
S33	2	1
S34	2	1
S35	2	1
S36	2	1
S37	2	1
S38	2	1
S39	2	1
S40	2	1
S41	2	1
S42	2	1
S43	2	1
S44	2	1
S45	2	1
S46	2	1
S47	2	1
S48	2	1
S49	2	1
S50	2	1
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S98	2	1
S99	2	1
S100	2	1

