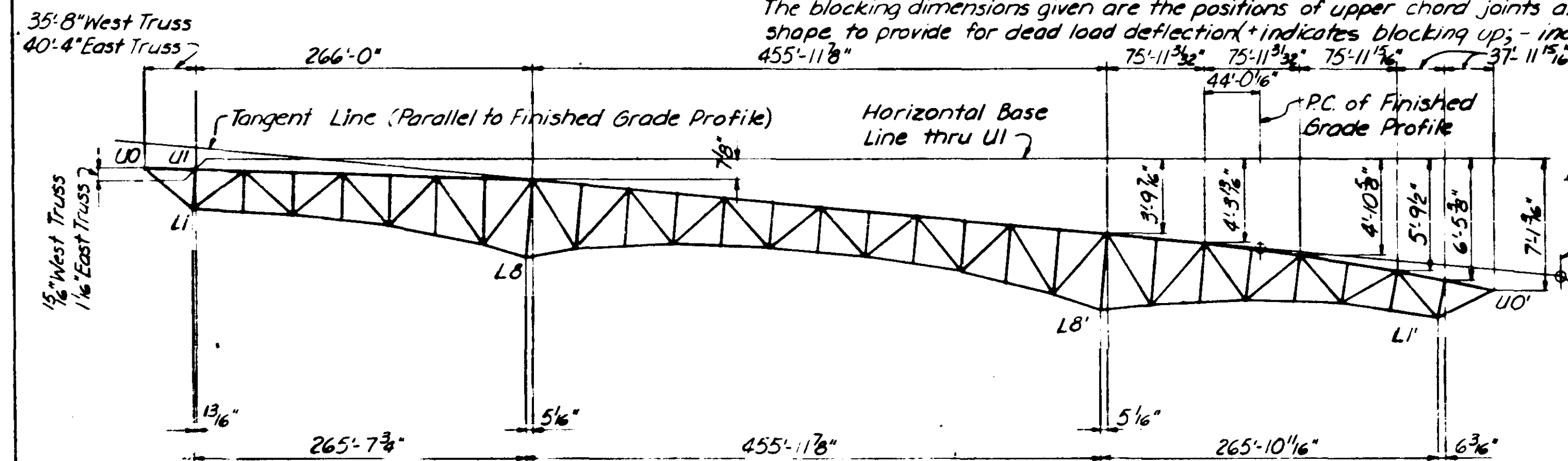


DEAD LOAD CAMBER DIAGRAM

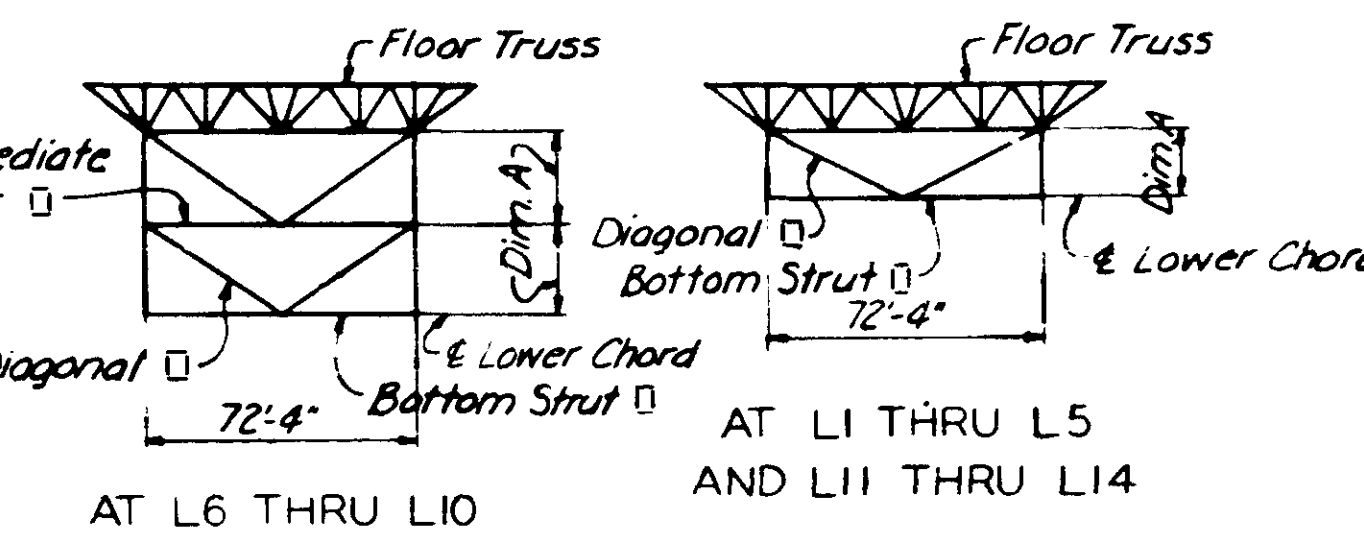
Note: Lengths of members to be computed for geometric shape of truss and the corrections indicated are to be applied to these lengths. + indicates lengthening, - indicates shortening. The blocking dimensions given are the positions of upper chord joints above or below the geometric shape, to provide for dead load deflection; + indicates blocking up; - indicates blocking down.



TRUSS LAYOUT

Note: Dimensions of truss shown for this layout and dimensions shown on Elevation of Truss, Sheet 20, are for the geometric shape after calculated deflection has occurred.

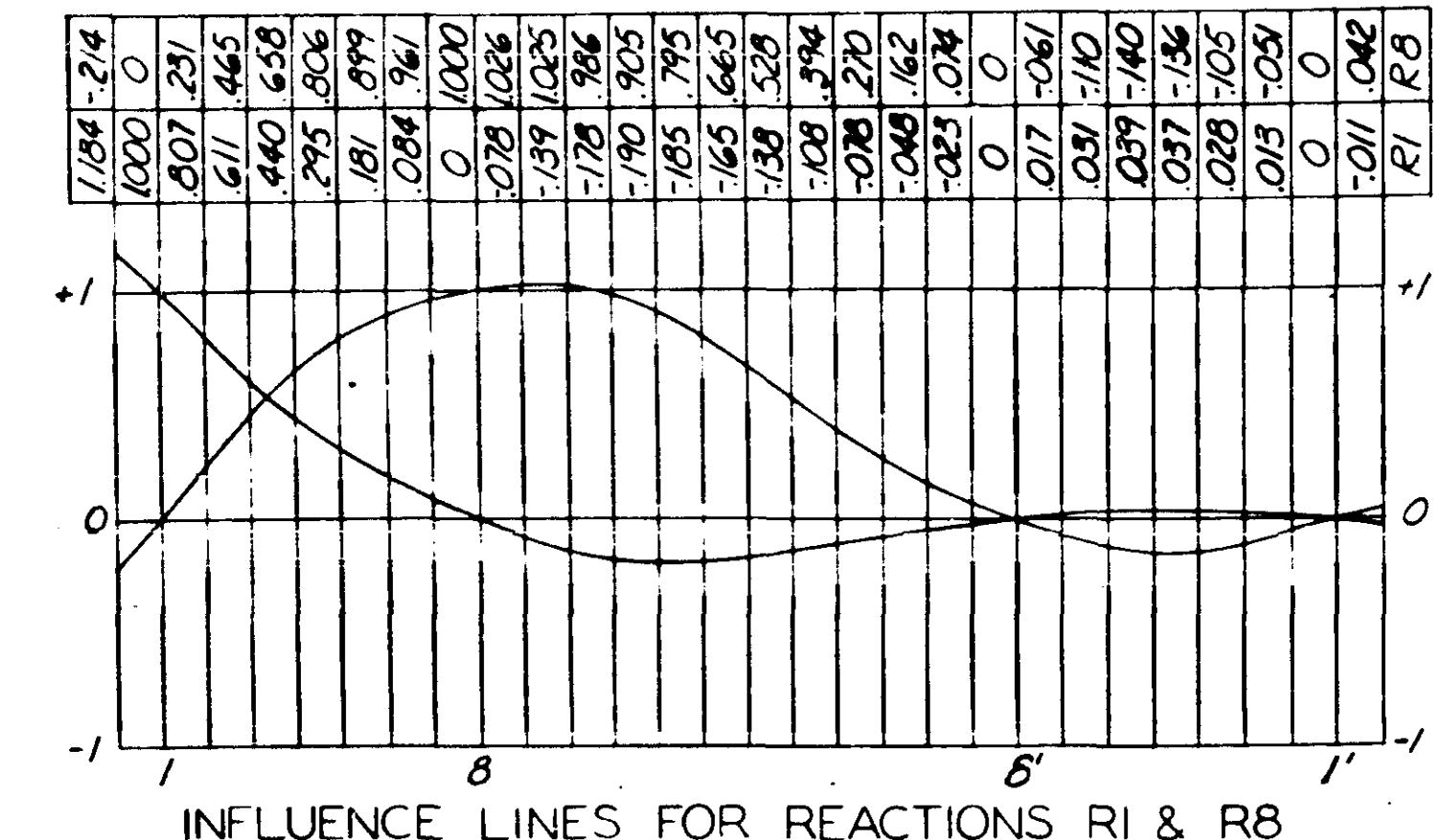
All chords are to be straight between splice points. The distance center to center of panel points measured along the  $\epsilon$  of upper chord to be 38'-0". Posts, hangers and floor trusses from U1 thru U7 and at U5' are normal to upper chord; all others are normal to Finished Grade Profile.



AT L6 THRU L10 AND L11 THRU L14

TABLE OF MEMBERS			
Panel Pt.	Inter. Strut	Bottom Strut	Diagonal
L2 thru L5 & L11 thru L14	—	2 Pts. 14" x 12" 2 Cov. Pts. 12" x 12"	2 Pts. 12" x 8" 2 Cov. Pts. 12" x 8"
L6, L7, L9 & L10	—	do	do
L1	—	2 Pts. 15" x 12" 2 Cov. Pts. 12" x 12"	2 Pts. 12" x 8" 2 Cov. Pts. 12" x 8"
L8	—	2 Pts. 14" x 12" 2 Cov. Pts. 12" x 12"	2 Pts. 14" x 12" 2 Cov. Pts. 12" x 12"

Panel Pt.	Dim A
L1	19'-9 3/8"
L2	21'-0 9/8"
L3	22'-2 7/8"
L4	25'-10 3/8"
L5	29'-6 3/8"
L6	17'-10 1/8"
L7	20'-10 3/8"
L8	24'-10 3/8"
L9	20'-6 3/8"
L10	17'-8 3/8"
L11	29'-7 3/8"
L12	27'-8 3/8"
L13 & L14	25'-9 3/8"



INFLUENCE LINES FOR REACTIONS R1 & R8

TRUSS SPAN NOTES

GENERAL NOTES: See Sheet 2.

MATERIALS: Material marked (A5) shall be High Strength Structural Steel conforming to the following:  
 Pts. 3/4" and under ----- MHD 3310  
 Pts. over 3/4" ----- MHD 3309  
 Material marked (A7) shall be High Strength Alloy Steel conforming to MHD 3318.  
 All other material shall conform to Structural Steel MHD 3306.

RIVETS: Rivet sizes are as noted on drawings. All 7/8" rivets shall be carbon steel rivets conforming to M.H.D. 3316, Type I. All 1" rivets shall be high strength low alloy steel rivets conforming to M.H.D. 3316, Type II, with alternate material requirements of ASTM Designation A406. Rivet values for 1" rivets shall be as given in A.A.S.H.Q. 14.3.A.

BOLTS: High strength bolts shall conform to M.H.D. 3391B, Style II. Bolt sizes are as noted on the drawings.

DETAILS: All field connections shall be riveted unless otherwise noted on the drawings. Where desired shop and field rivets may be interchanged.

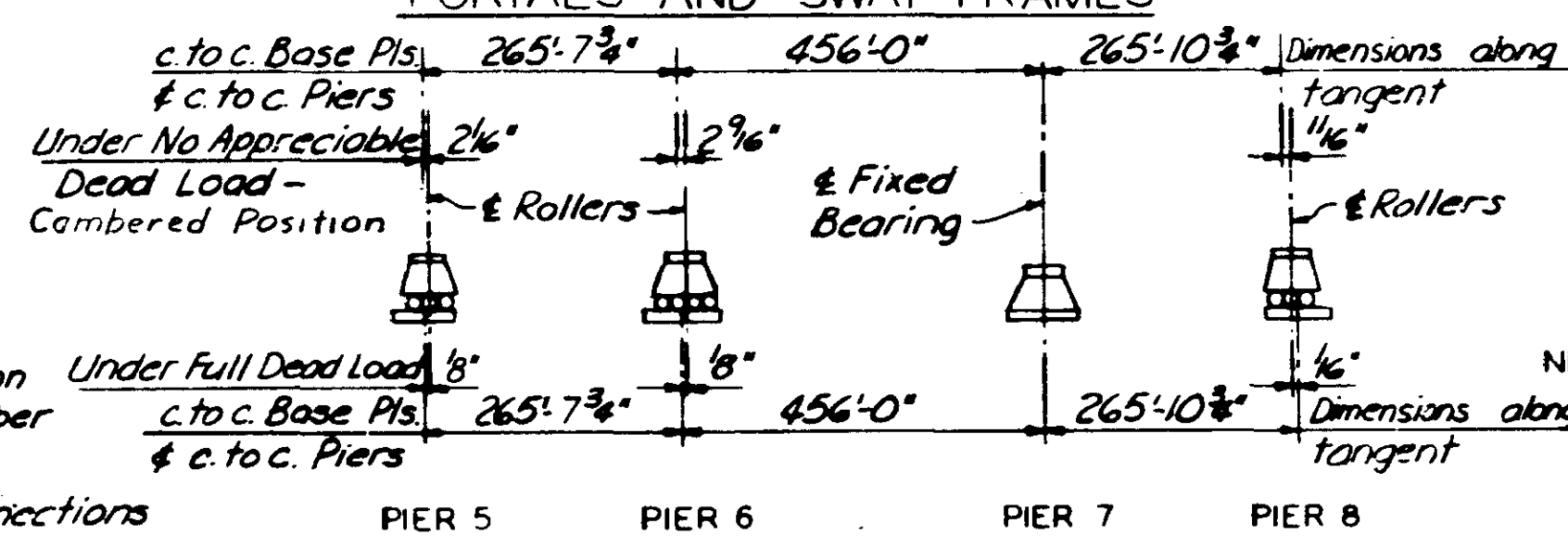
Welded Diaphragms are required in all box members made up of four plates; see 'Typical Truss Details'.

Optional shop groove welded butt joint splices will be permitted only in plates of truss members over 40 feet long, and only one splice will be permitted in each plate. Side plates shall be spliced not closer than 4'-0" from the splice in its companion side plate. Cover plates and web plates shall be spliced 6" minimum from a side plate splice. Cover plate splices shall be located in the middle half of the space between perforations.

NET SECTION: In tension members (N) indicates the number of holes out to maintain net section. Where "M.N.S." is noted, sufficient pitch shall be provided to maintain net section in a staggered chain of holes on the face indicated.

CAMBER: Main trusses shall be cambered for the design Dead Load.

PORTALS AND SWAY FRAMES



BEARINGS SETTING DIAGRAM

Note: For setting of rollers at temperatures other than 45° normal, see Bearing Assembly Notes, Sheet 3B.

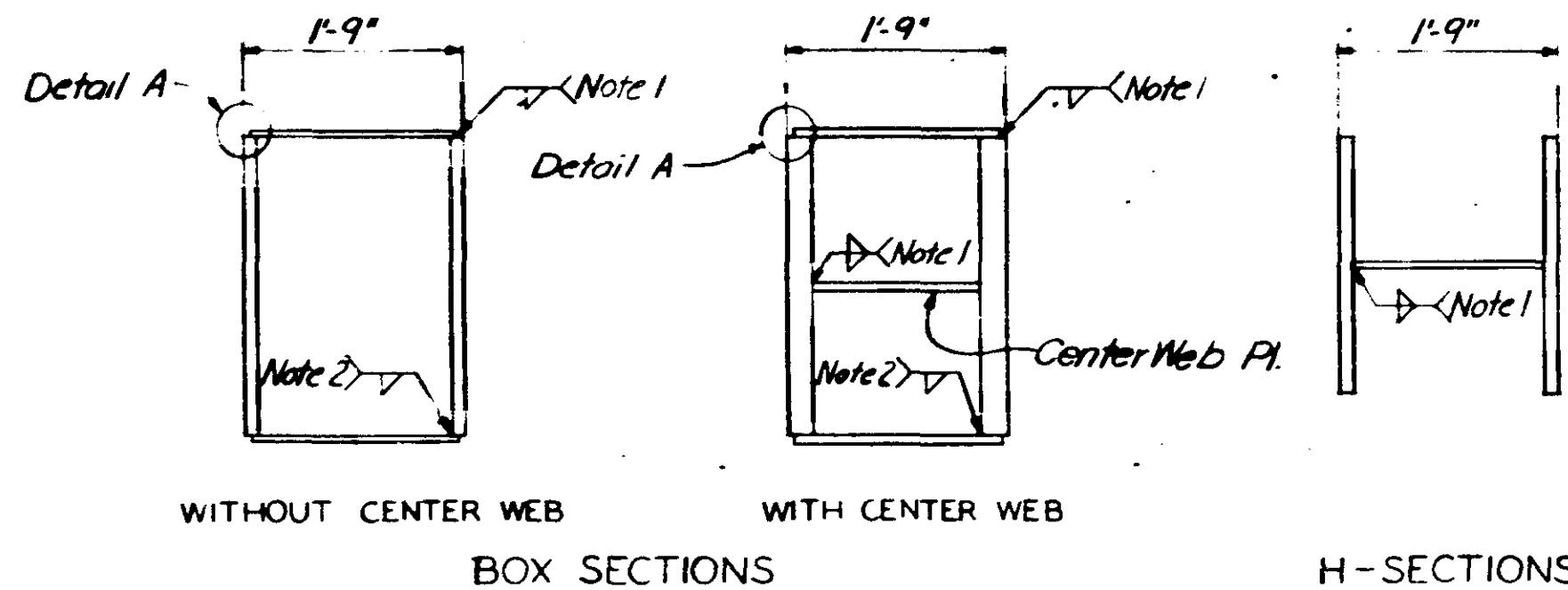
TABLE OF MINIMUM FILLET WELD SIZES	
Material Thickness of Thicker Part Joined to 1/2" Incl.	Minimum Size Fillet Weld
Over 1/2" to 1 1/2"	3/8"
Over 1 1/2" to 2 1/2"	1/2"
Over 2 1/2"	5/8"

Note A: Seal Diaphragms shall not have corners clipped and shall be welded all around open end side with 1/4" fillet weld to seal member.

TRUSS WELDING NOTES

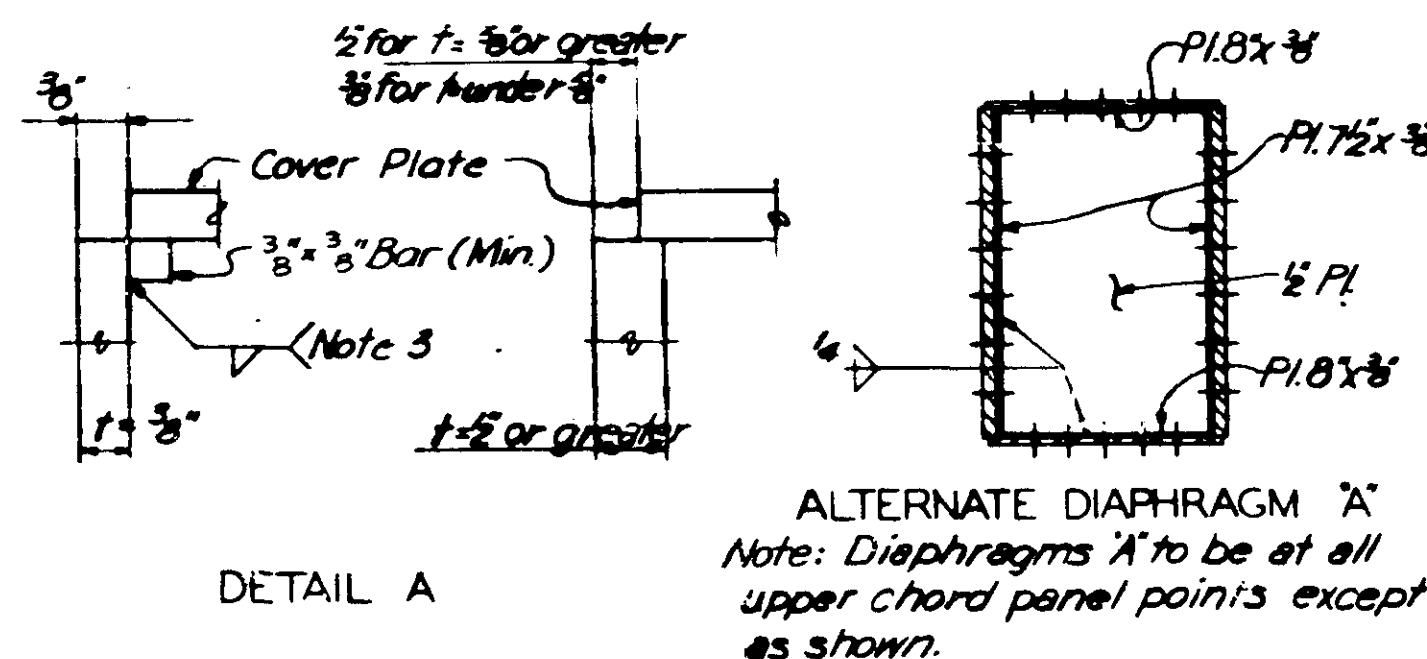
- Use Table of Minimum Fillet Weld Sizes.
- The inside fillet weld shall be the size shown in Table of Minimum Fillet Weld Sizes and shall extend from the end of the member to 1'-0" beyond the edge of the gusset plate on the following members:  
 A. All diagonal members  
 B. All box section verticals (posts and hangers)  
 C. Chord members at U0, L1, L8, L8', L1' and U0'.
- The 3/8" x 3/8" bar is required as a backup bar for welding. The bar is to be continuous and may be tack welded to either the side plate or cover plate. The backup bars shall be omitted for the length of inside fillet welds called for by Note 2.

Steel	TABLE OF WIDTH TO THICKNESS RATIOS FOR PLATES			
	Main Members & Diaphragms	Flattened Cast Pts.	Flattened Cast Pts.	Plates Supported on one edge
MHD 3306	30.5	38	48	11.5
MHD 3309	26	34	42	10
MHD 3310	26	34	42	10



BOX SECTIONS

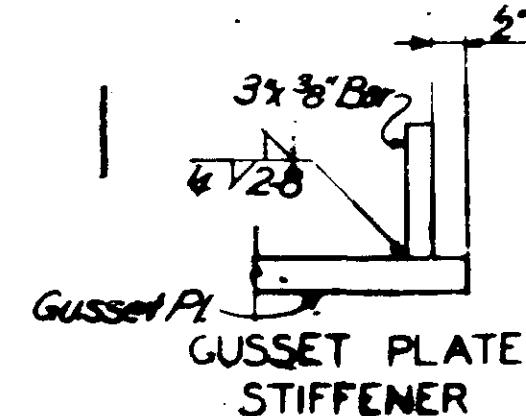
H-SECTIONS



ALTERNATE DIAPHRAGM 'A'  
 Note: Diaphragms 'A' to be at all upper chord panel points except as shown.

TYPICAL TRUSS DETAILS

Note: Details shown are for all truss members. Welding details for bracing members same, except that inside fillet weld as shown by Note 2 shall extend from the end of the member to the seal diaphragm and the 3/8" x 3/8" backup bar shall terminate at the inside face of the seal diaphragm.



GUSSET PLATE STIFFENER

PERF COVER PLATES: Provide 10" x 20" Perforations at 3'-6" centers in both cover plates of all truss box members except those in the top chord. In the top chord members provide 10" x 20" perforations at about 3'-6" centers in the bottom cover plate only.

Perforations in the bracing members shall be as noted on the drawings.

In members in which both cover plates are perforated the perforations shall be opposite in the two cover plates of the same member.

LOCAL BUCKLING REQUIREMENTS: Elements of compression members shall be limited to the following width to thickness ratios as shown in table at left.

For compression members in which the stress is less than the allowable, the width to thickness ratios in table at left may be multiplied by the factor  $\sqrt{p/F}$  where  $p$  = allowable unit stress ( $4 = 0$ ) and  $F$  = actual unit stress. The use of this factor shall be limited to relatively low stressed members.

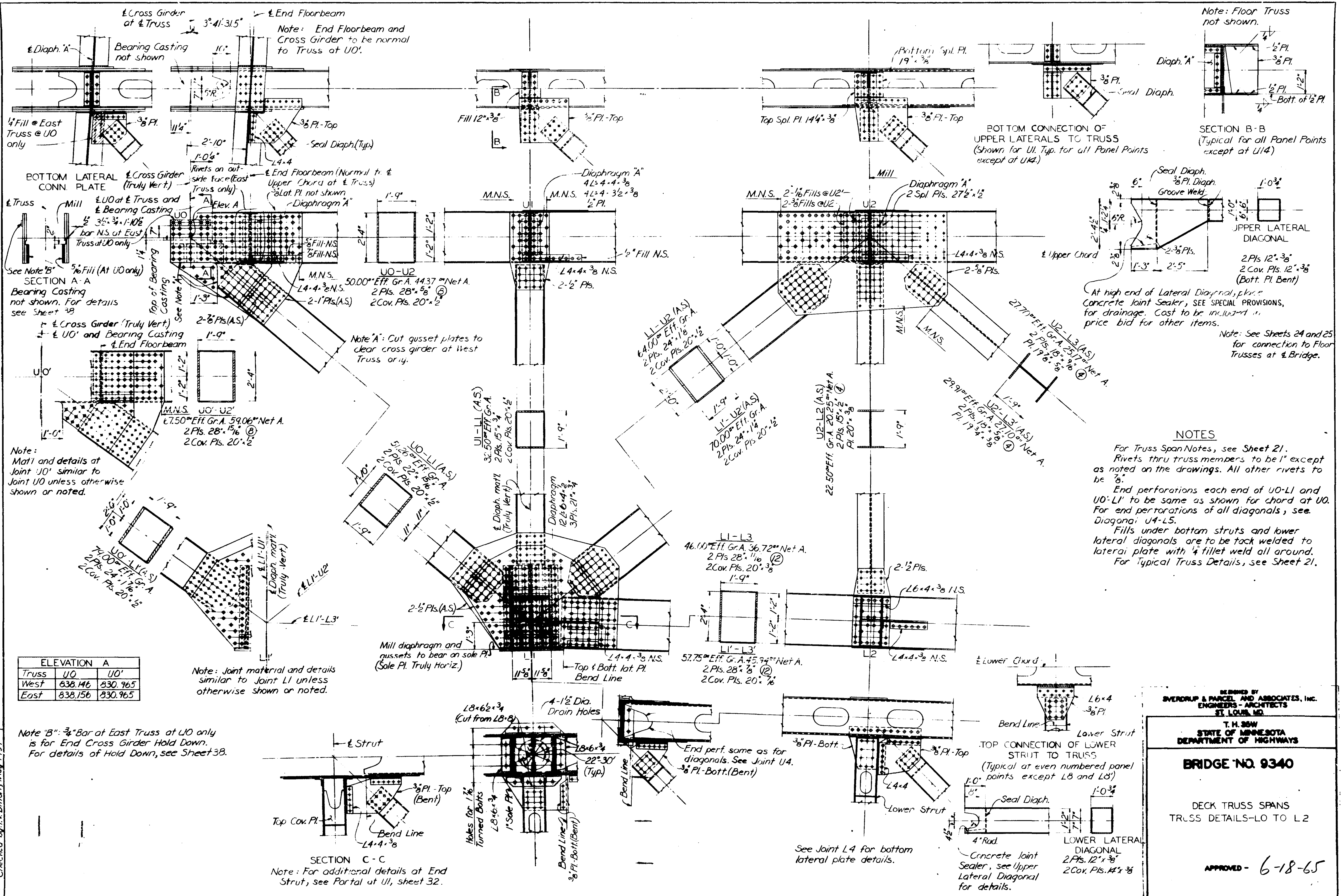
DESIGNED BY  
 SWENBERG & PARCEL AND ASSOCIATES, INC.  
 ENGINEERS - ARCHITECTS  
 ST. LOUIS, MO.

T. H. BOW  
 STATE OF MISSOURI  
 DEPARTMENT OF HIGHWAYS

BRIDGE NO. 9340

DECK TRUSS SPANS  
 STRESS SHEET

APPROVED - 6-18-65



Drawn by: C.J. Reuten, Nov. 1963  
 Checked by: T.V. Dillon, May 1954

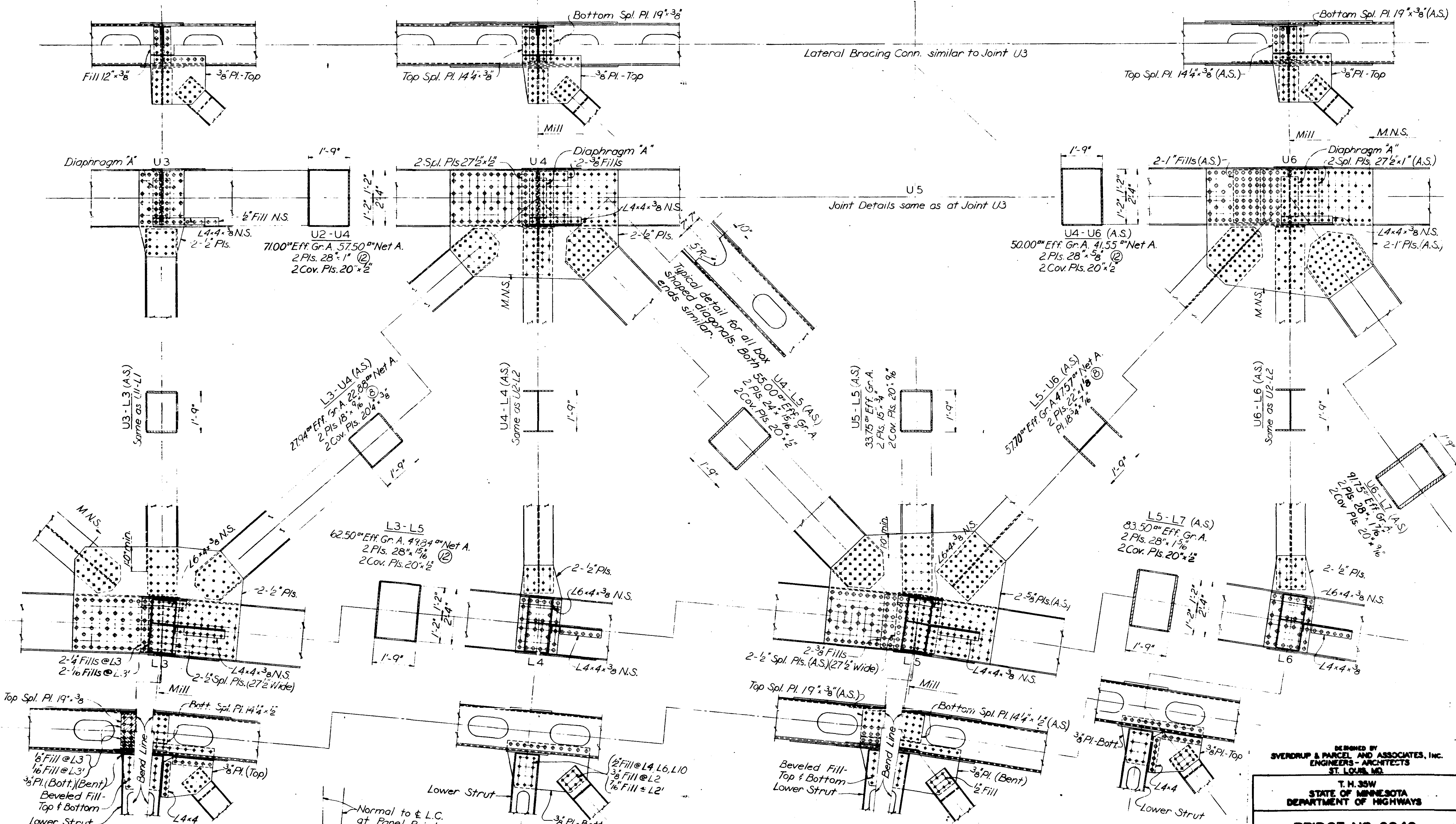
DESIGNED BY  
**SVERDRUP & PARCEL AND ASSOCIATES, INC.**  
 ENGINEERS - ARCHITECTS  
 ST. LOUIS, MO.

T.H. 36W  
 STATE OF MINNESOTA  
 DEPARTMENT OF HIGHWAYS

**BRIDGE NO. 9340**

DECK TRUSS SPANS  
 TRUSS DETAILS-LO TO L2

APPROVED - 6-18-65



Lateral Bracing Conn. similar to Joint U3

Joint Details same as at Joint U3

Typical detail for all box shaped diagonals. Both ends similar.

U5 - L5 (A.S.)  
33.75<sup>00</sup> Eff. Gr. A.  
2 Pls. 18" x 1/2"  
2 Cov. Pls. 20" x 2"

See Joint L4 for bottom lateral plate details.

Bottom lateral plate shown. See Joint L3 for top lateral plate details and material.

See Joint L5 for bottom lateral plate details.

Bottom lateral plate shown. See Joint L6 for top lateral plate details and material.

**NOTES**

For Notes, see Sheet 28.

TOP CONNECTION OF LOWER STRUT TO TRUSS  
(Typical at odd numbered panel points except L1 and L1')

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ST. LOUIS, MO.

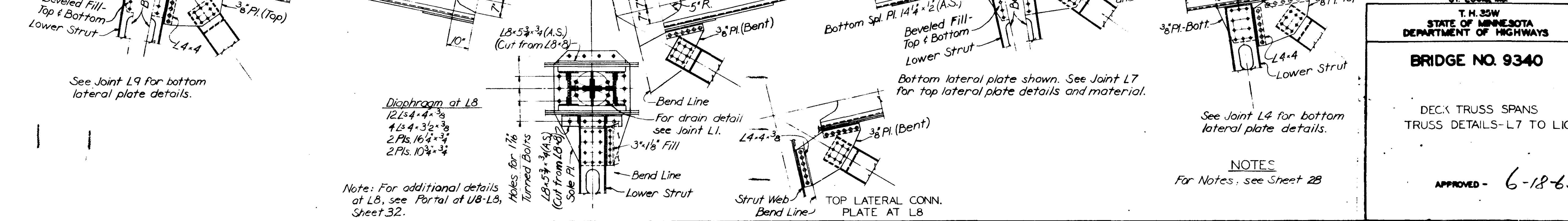
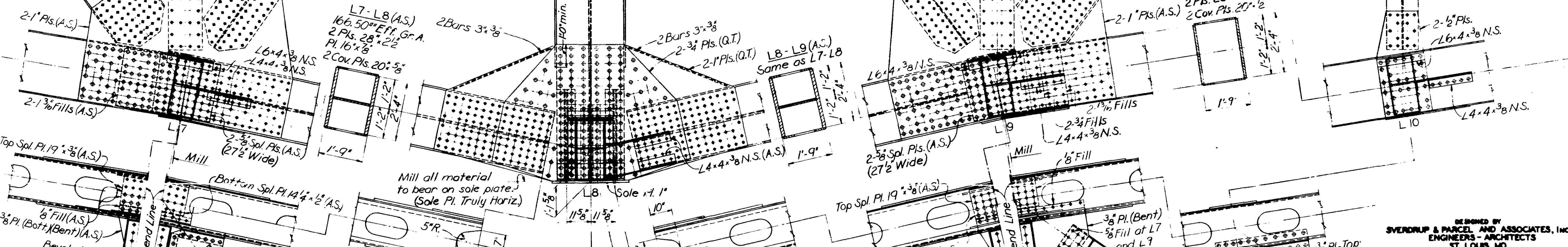
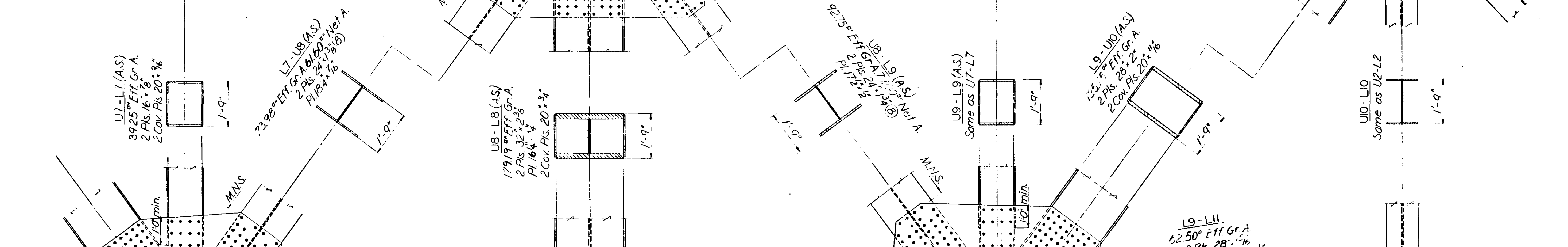
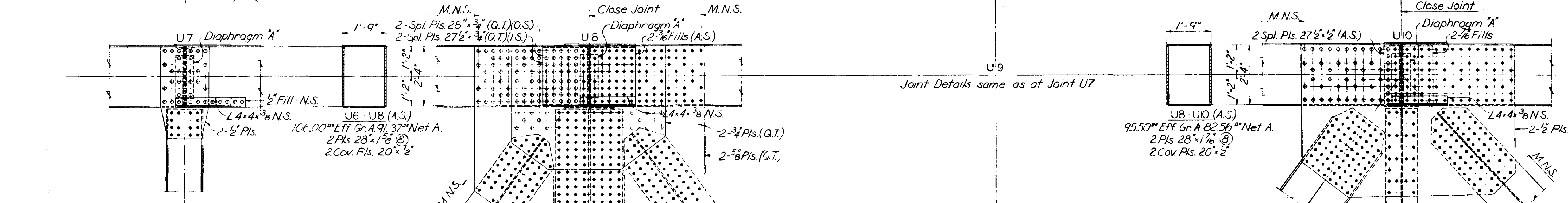
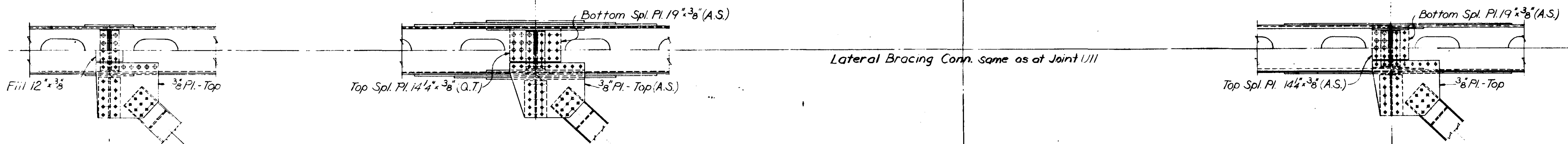
T. H. 35W  
STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS

**BRIDGE NO. 9340**

DECK TRUSS SPANS  
TRUSS DETAILS-L3 TO L6

APPROVED - 6-18-65

Drawn by: C.J. Reuter, Dec. 1963  
Checked by: T.D. Dillon, May 1964  
2083  
633725



Note: For additional details at L8, see Portal at UB-L8, Sheet 32.

Lateral Bracing Conn. same as at Joint U11

Joint Details same as at Joint U7

Bottom lateral plate shown. See Joint L7 for top lateral plate details and material.

See Joint L4 for bottom lateral plate details.

NOTES  
For Notes, see Sheet 28

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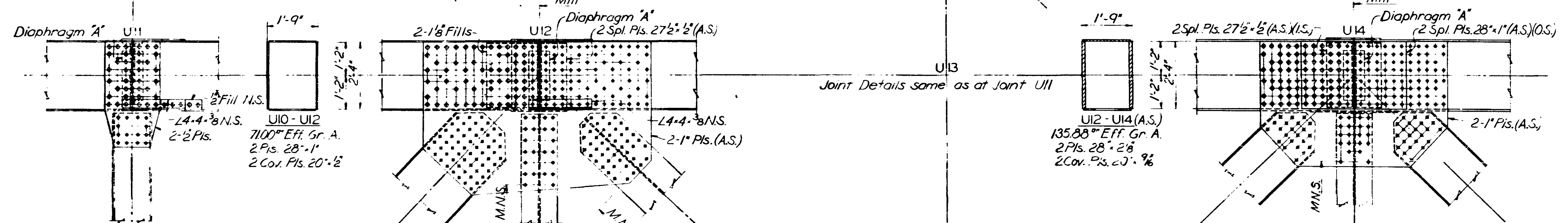
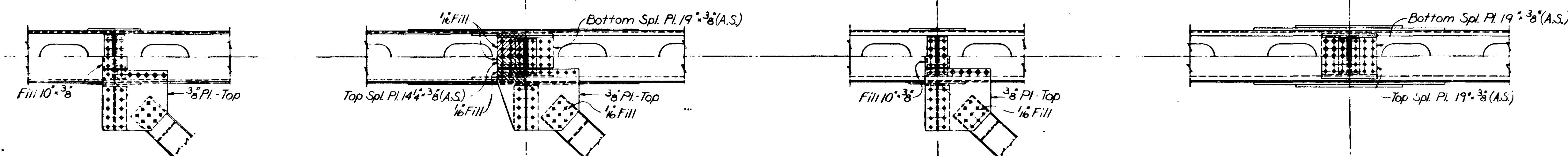
T. H. 35W  
STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS

BRIDGE NO. 9340

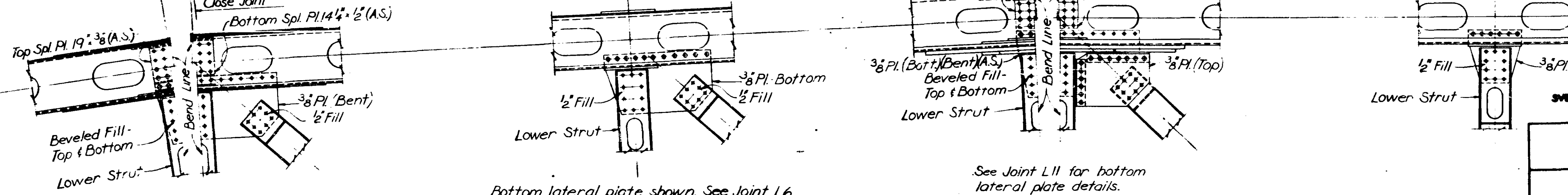
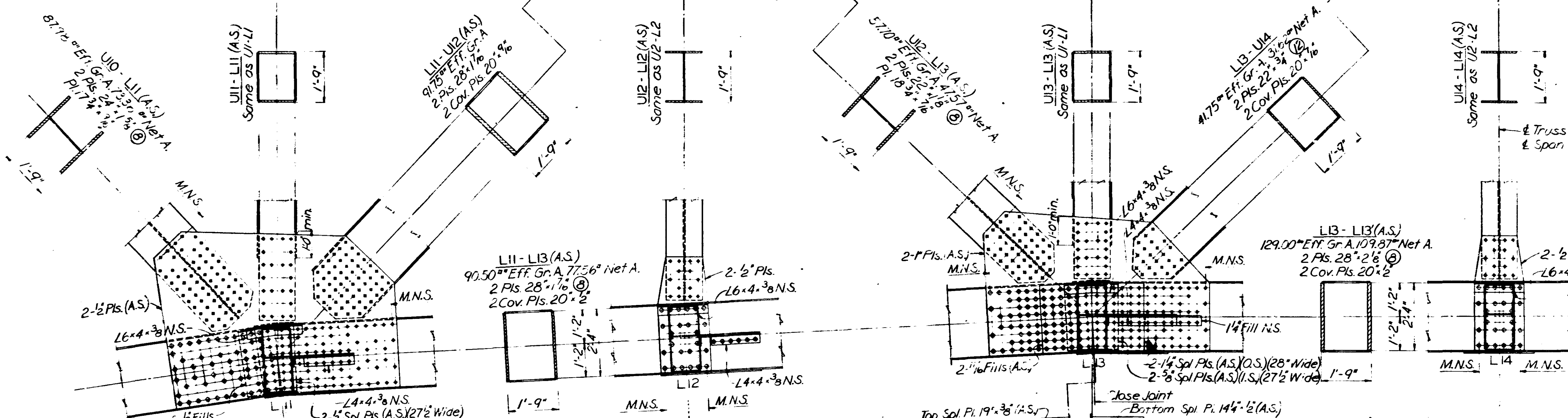
DEC. TRUSS SPANS  
TRUSS DETAILS - L7 TO L10

APPROVED - 6-18-65

Drawn by: C.J. Reuter, Dec. 1963  
Checked by: T.K. Dillon, May 1964  
2083  
635921



NOTE:  
TRUSS DETAILS ON EACH SIDE  
OF L SPAN 7 ARE SIMILAR  
EXCEPT AS SHOWN OR NOTED



Bottom lateral plate shown. See Joint L7 for top lateral plate details and material.

Bottom lateral plate shown. See Joint L6 for top lateral plate details and material.

See Joint L11 for bottom lateral plate details.

NOTES  
For Notes, see Sheet 28.

Drawn by: C.J. Reuter, Dec 1963  
Checked by: T.V. Dillon, May 1964  
2083  
64543

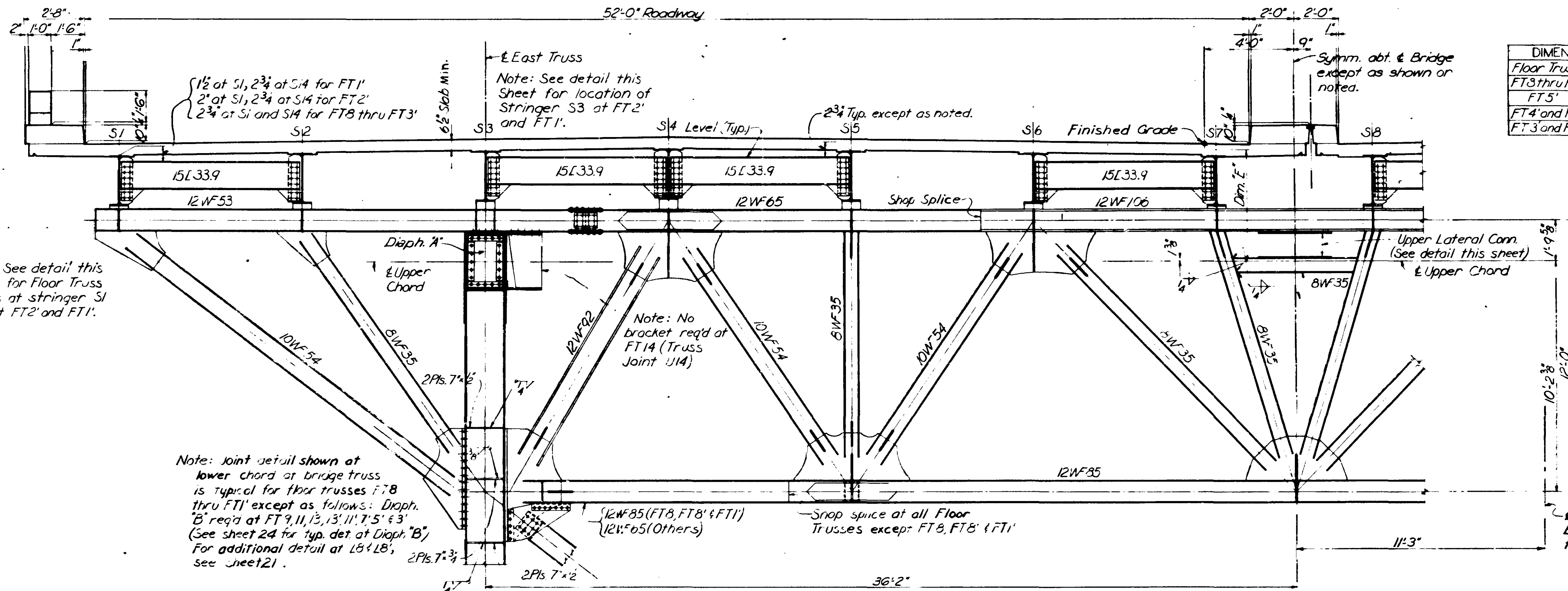
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ENGINEERS - ARCHITECTS  
ST. LOUIS, MO.

T. H. 35W  
STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS

BRIDGE NO. 9340

DECK TRUSS SPANS  
TRUSS DETAILS-L11 TO L14

APPROVED - 6-18-65



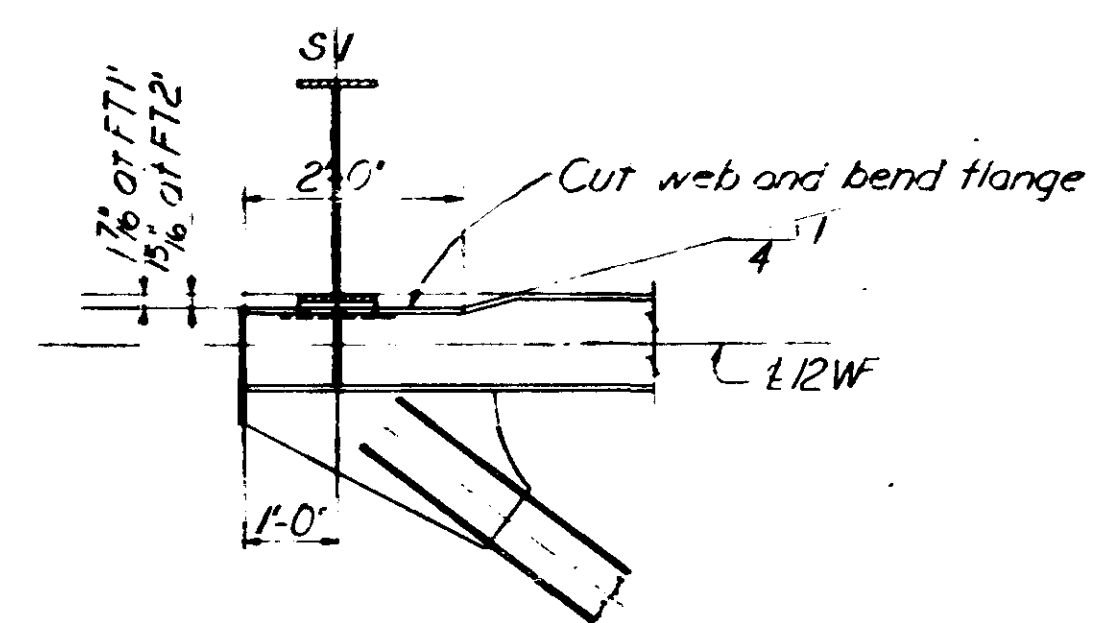
DIMENSIONS - 'E'	
Floor Truss	Dimension
FT3 thru FT6	5'-2 7/8"
FT5	5'-3 1/8"
FT4 and FT2	5'-2 7/8"
FT3 and FT1	5'-3 1/8"

Note: See detail this sheet for Floor Truss details at stringer S1 only at FT2 and FT1.

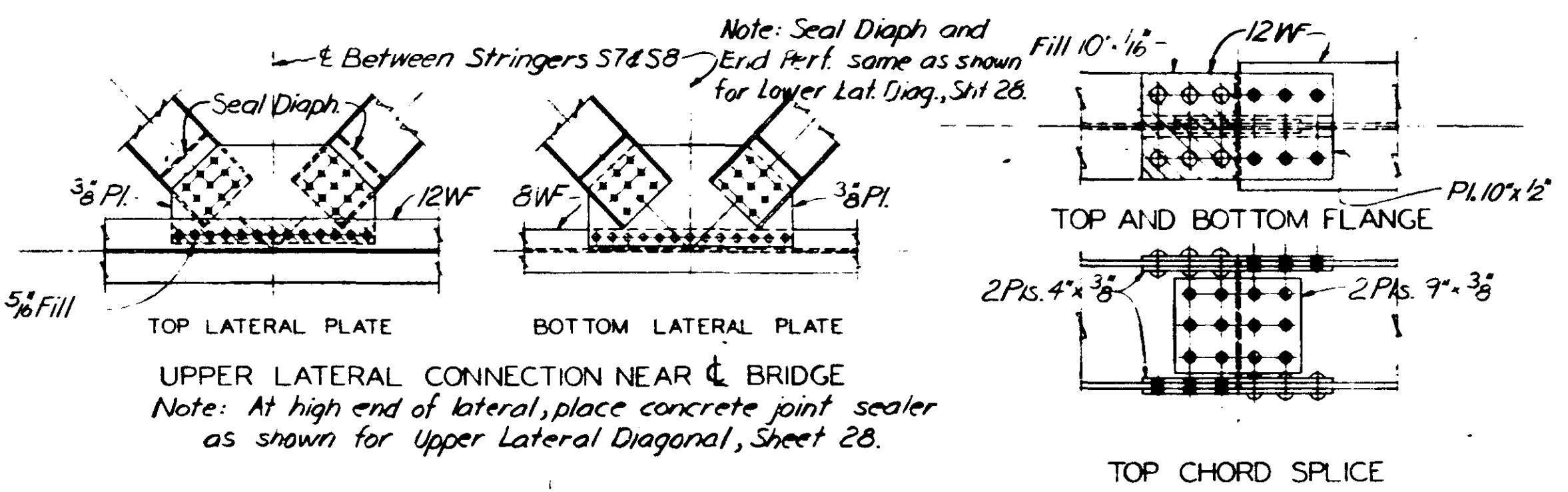
Note: Joint detail shown at lower chord of bridge truss is typical for trusses FT8 thru FT11 except as follows: Diaph. 'B' req'd at FT9, 11, 13, 13', 11', 7', 5' & 3' (See sheet 24 for typ. det. at Diaph. 'B') For additional detail at LB & LB', see sheet 21.

Note: No bracket req'd at FT14 (Truss Joint U14)

Inspection Walkway this side of Bridge only. See Sheets 34 and 35 for details.

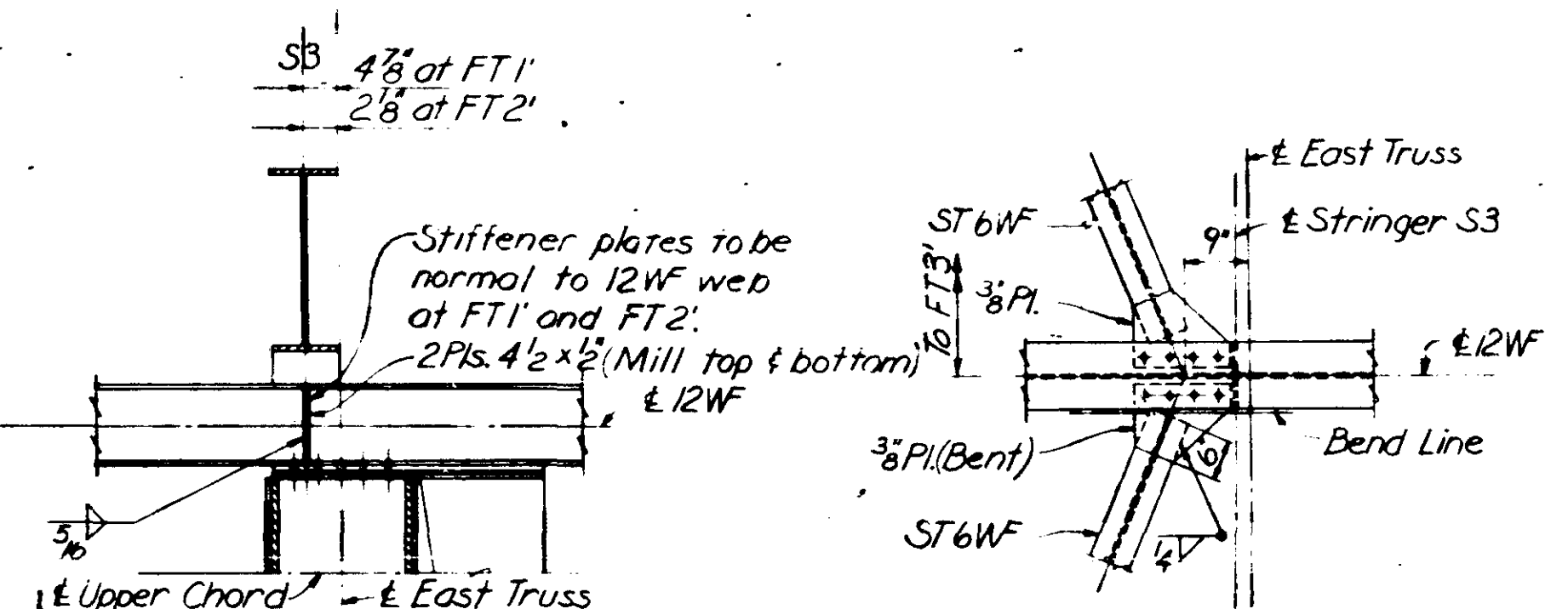


FLOOR TRUSS FT2' & FT1' AT STRINGER S1  
Note: Shown for FT1. Similar and as noted for FT2'.



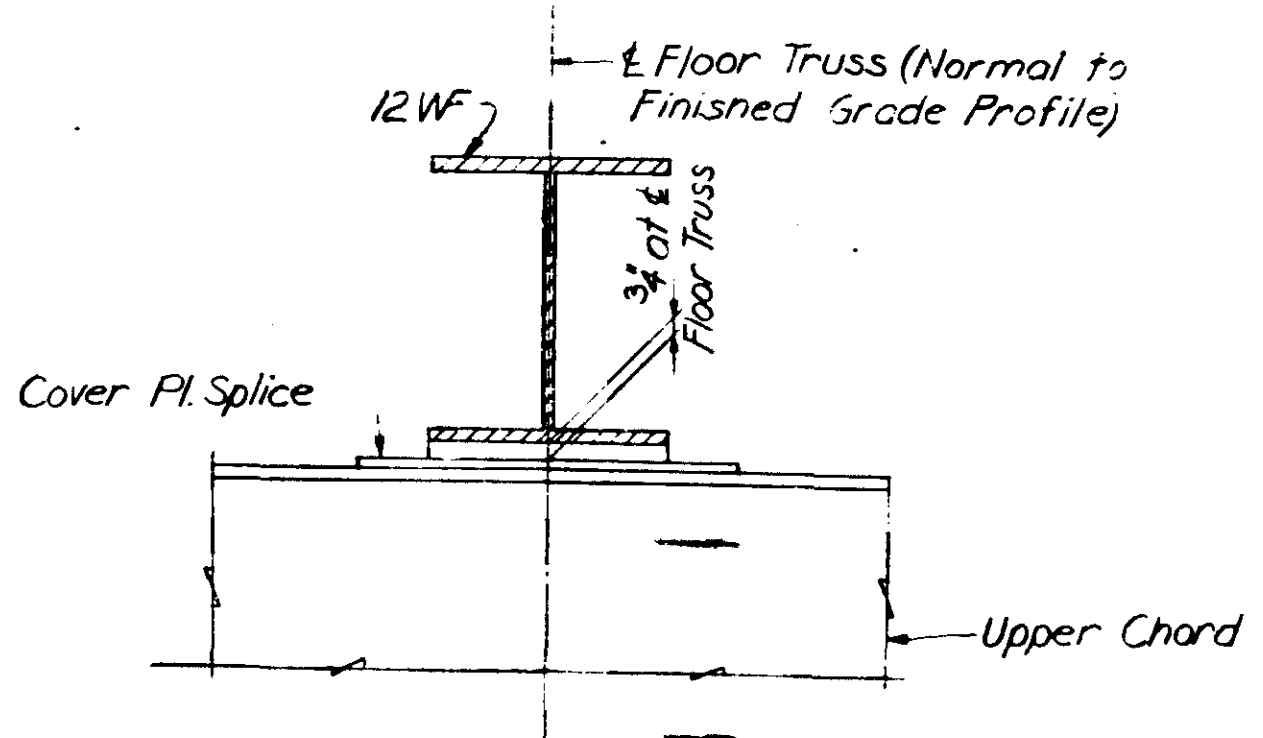
CROSS SECTION AT FLOOR TRUSS FT12  
Cross Section at Floor Truss FT8 thru FT11 and FT13 thru FT1' similar except as shown or noted.

NOTES  
For General Notes, see sheet 2.  
Material, dimensions and details not shown are to be same as for Floor Trusses FT1 thru FT7, sheet 24.  
For layout of Floor Trusses, see sheet 22.  
Work this sheet with sheet 24.

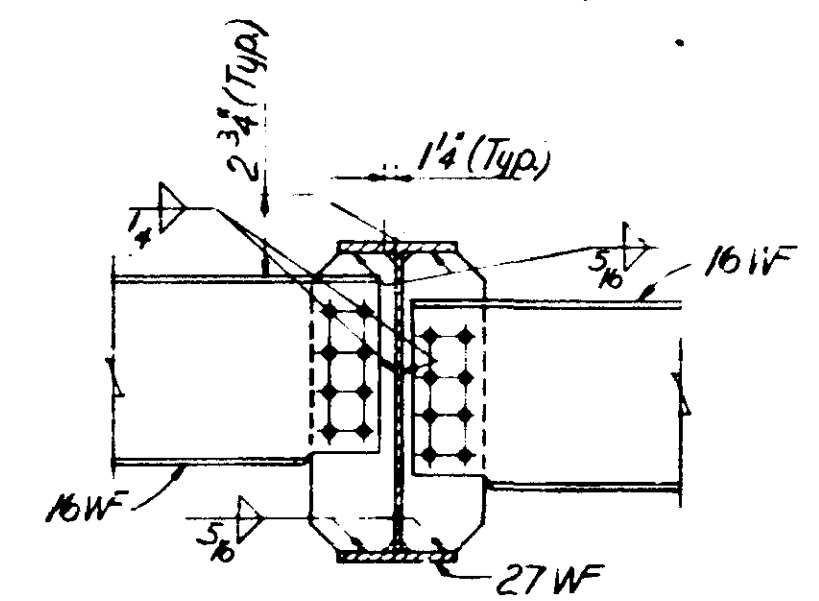


FLOOR TRUSS FT2' & FT1' AT STRINGER S3  
Note: Shown for FT1. Similar and as noted for FT2'.

CANTILEVER BRACING CONN. AT STRINGER S3 AT FT2'



FILL PLATE DETAIL AT U8, U4' & U2'



TYP. STRINGER DIAPHRAGM CONN. AT U4, U8, U14, U8' & U4'  
Note: For location and additional details see Framing Plan, Sheet 22 and Stringer Details, Sheet 23.

Drawn by: C. J. Heuter, Nov. 1963  
 Checked by: T. V. Dillon, Apr. 1964  
 2083  
 635726

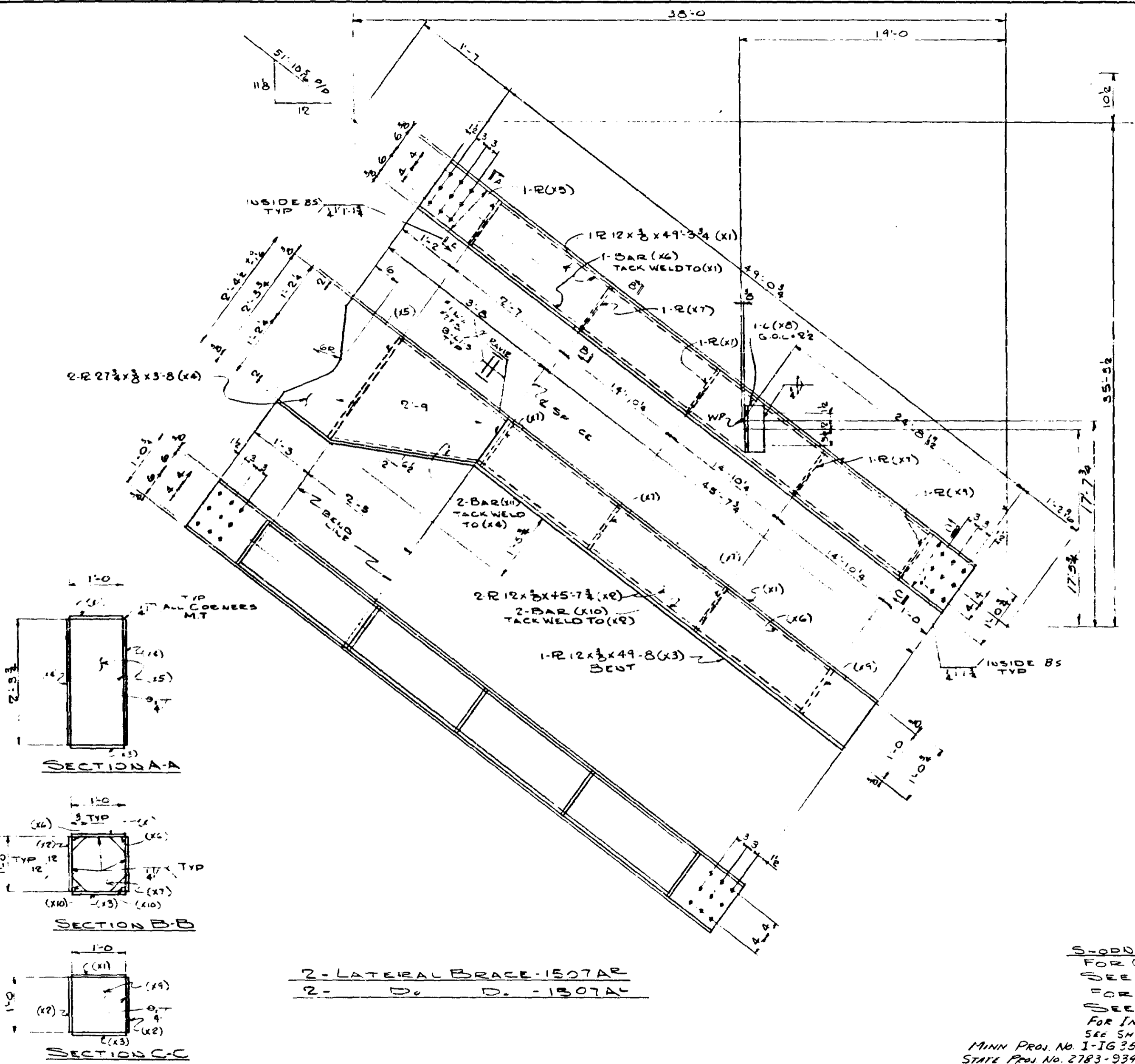
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ST. LOUIS, MO.

T. H. JOHNSON  
STATE OF MINNESOTA  
DEPARTMENT OF HIGHWAYS

BRIDGE NO. 9340

DECK TRUSS SPANS  
FLOOR TRUSS DETAILS

APPROVED - 6-18-65



NO	QTY	SHIP MK	NO	REMARKS	ITEM NO	TOTAL WEIGHT	UNITS
15	17						
1							
2							
3							
4							
5	1507A	2		LATERAL BRACE (29' X 49'-0")			
6	1507A	2		D <sub>o</sub> D <sub>o</sub> (29' X 49'-0")			
7	4	R 12 X 3	49 1/2	X1	3302	59	3018
8	8	R 12 X 3	45 7/8	X2	3304		5587
9	4	R 12 X 3	49 3/8	X3	3308		3040
10	8	R 27 1/2 X 3	3 3	X4	3306		1038
11	4	R 12 X 3	2 5/8	X5	3307		182
12	8	BAE 3 X 3	47 1/4	X6	3345		181
13	12	R 12 X 3	1 0	X7	3308		189
14	4	L 3 4 X 4	0 10	X8	4002		33
15	4	R 12 X 3	1 0	X9	3308		61
16	8	BAE 3 X 3	47 7/8	X10	3305		171
17	8	BAE 3 X 3	2 8	X11	3305	59	10
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**ALLIED STRUCTURAL STEEL COMPANY**  
 1520 15TH STREET S.W. MINNEAPOLIS, MINN. 55404

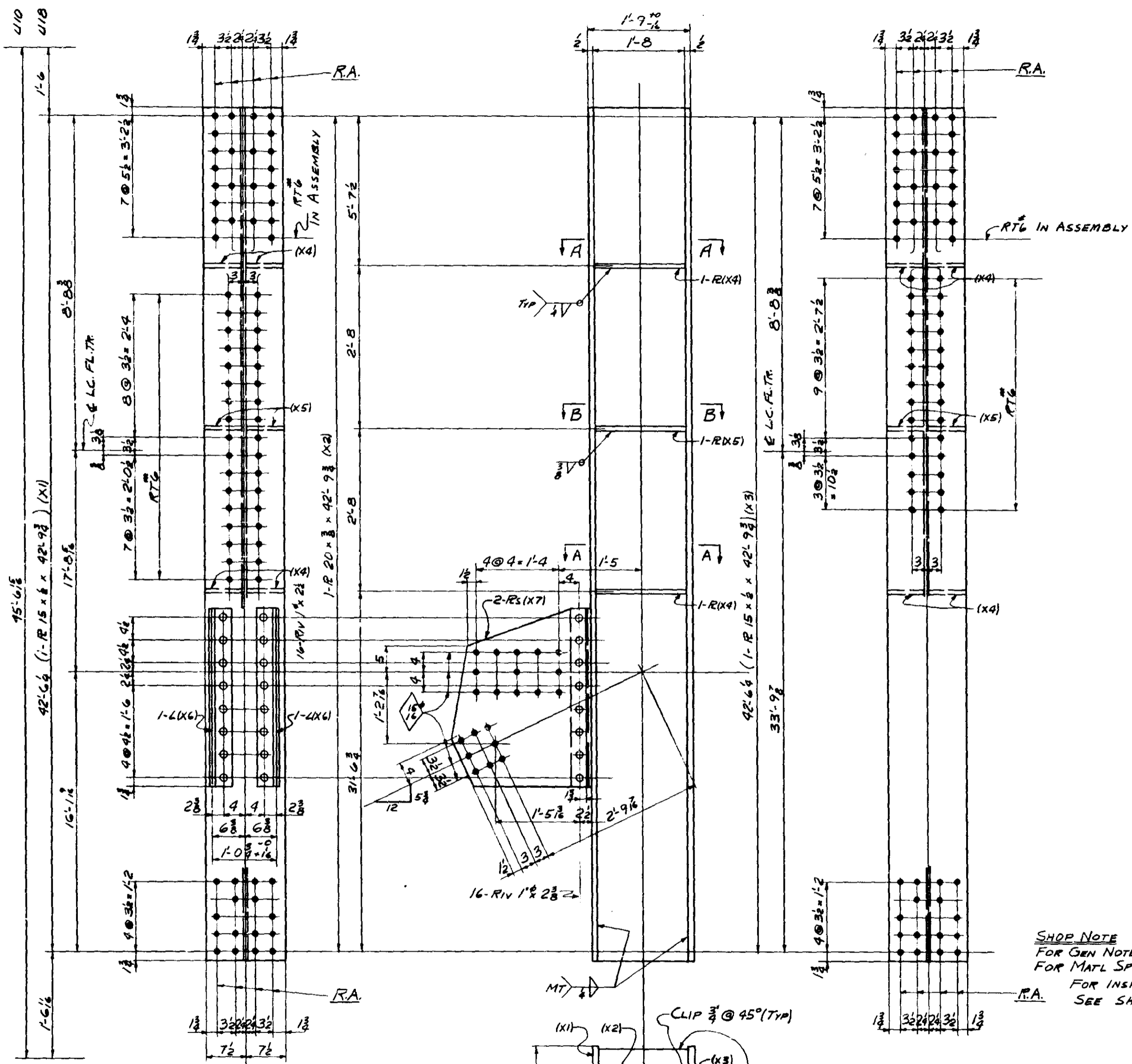
DETAILS OF TOP LATERAL BRACE  
 STRUCTURE: BRIDGE N 89340  
 LOCATION: MINNEAPOLIS, MINNESOTA  
 OWNER: MINNESOTA STATE HWY. DEPT  
 CUSTOMER: MINNESOTA STATE HWY. DEPT

CONTRACT 3142 FABCOD 264 SHEET 1507

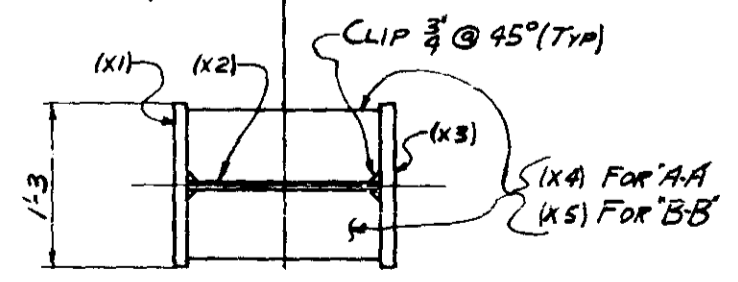
MINN. PROJ. No. 1-1635W-3(58) 112  
 STATE PROJ. No. 2783-9340B (TH35W-394)

HAMMOND FAB  
 OPEN HOLES 1/2" RIVETS & BOLTS - PAINT (SEE SHGT. 11)  
 DRAWN BY: J.L.L. DATE: 2/25/66 CHECKED BY: F.B. DATE: 4/14/66

**NOTE:**  
 FOR GEN NOTES  
 SEE GNI  
 FOR MATL. SPECS  
 SEE BILL OF MATL.  
 FOR INSPECTION OF WEILDS  
 SEE SHT. GNI.



- L10 ONE - VERTICAL - 1514 L10-U10E
  - L10 ONE - do - 1514 L10-U10W
  - ONE - do - 1514 L10-U10E
  - ONE - do - 1514 L10-U10W
- ALIKE EXCEPT FOR MARKS



SECT. 'A-A'

SECT. 'B-B'

SHOP NOTE  
 FOR GEN NOTE: SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION AT WELDS  
 SEE SH GNI

Div	SHIP MK	NO REQ	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT	MATERIAL SPEC
15/17									
1			ONE VERTICAL	1514		L10-U10E			
1			ONE do	1514		L10-U10W			
1			ONE do	1514		L10-U10E			
1			ONE do	1514		L10-U10W			

10	4	R 15 x 6	42' 9 3/4	X1	UM	3011	61	4367	3310
11	4	R 20 x 6	42' 9 3/4	X2		3012	61	4367	3310
12	4	R 15 x 6	42' 9 3/4	X3	UM	3011	61	4367	3310
13	16	R 7 x 6	1' 8	X4		3013	59	317	3306
14	8	R 7 x 6	1' 8	X5		3014	59	238	3306
15	8	L 4 x 4 x 3/8	2' 11	X6		3015	59	229	3306
16	8	R 27 x 6	2' 11	X7		3016	59	818	3306

19	4	WLD	192.0						NC
20	4	WLD	10.4						
22		RS 1" EV.							

BID ITEM 59 1602

BID ITEM 61 13101

MICROFILMED

**ALLIED** STRUCTURAL STEEL COMPANY  
 1200 N. W. 10TH STREET, MINNEAPOLIS, MINN. 55415

DETAILS OF TRUSS VERTICAL  
 STRUCTURE BRIDGE No 9340  
 LOCATION MINNEAPOLIS MINNESOTA  
 OWNER MINN STATE HNY DEPT.  
 CUSTOMER MINN STATE HNY DEPT.

HAMMOND FAB MINN PROJ No I-IG 35W-3150112  
 STATE PROJ No 2785-93408(TN 35W-398)

OPEN HOLES 1/16 RIVETS & BOLTS PAINT Yes See SH GNI

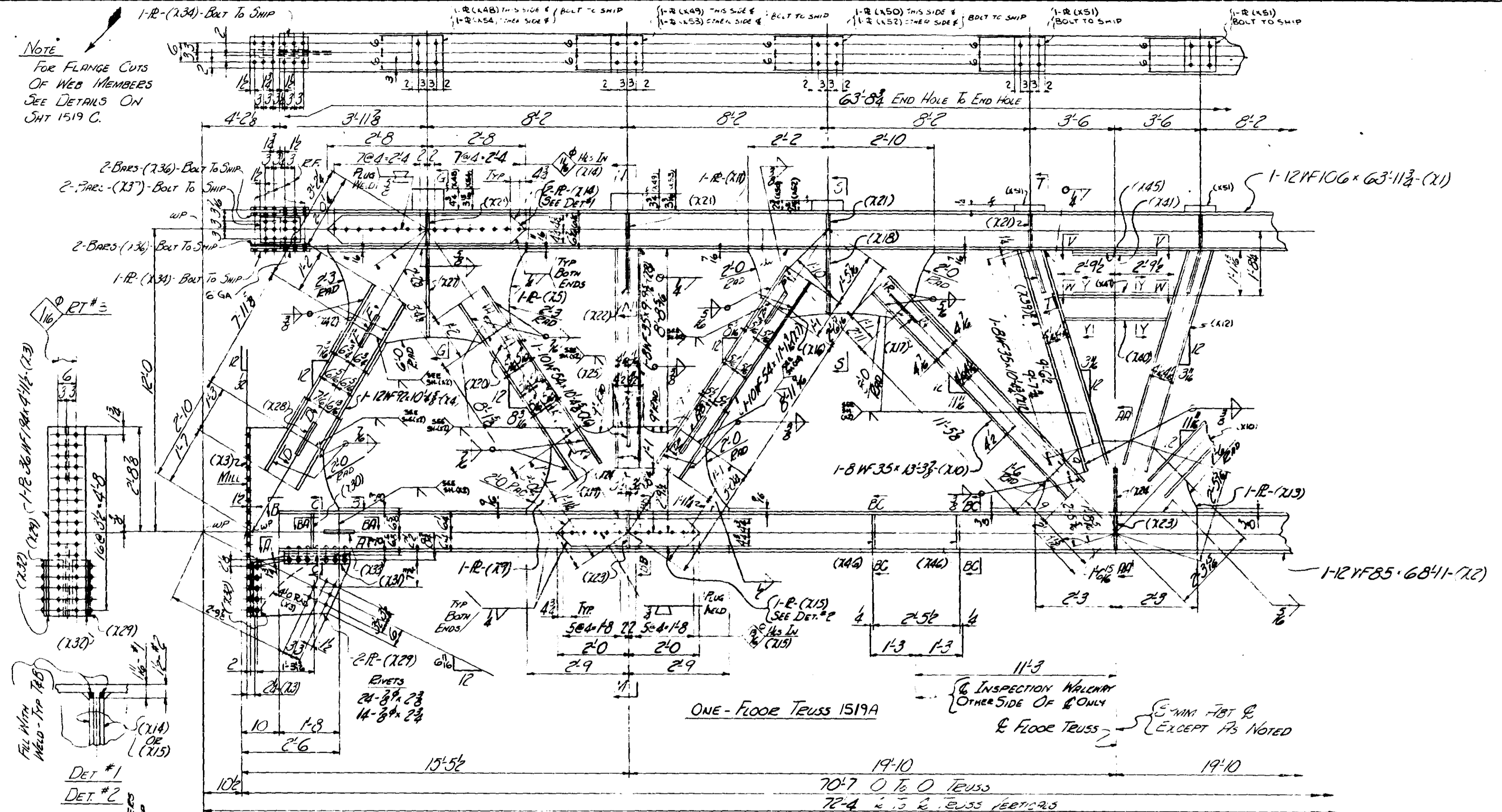
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REVISIONS  $\Delta$   $\Delta$   $\Delta$   $\Delta$

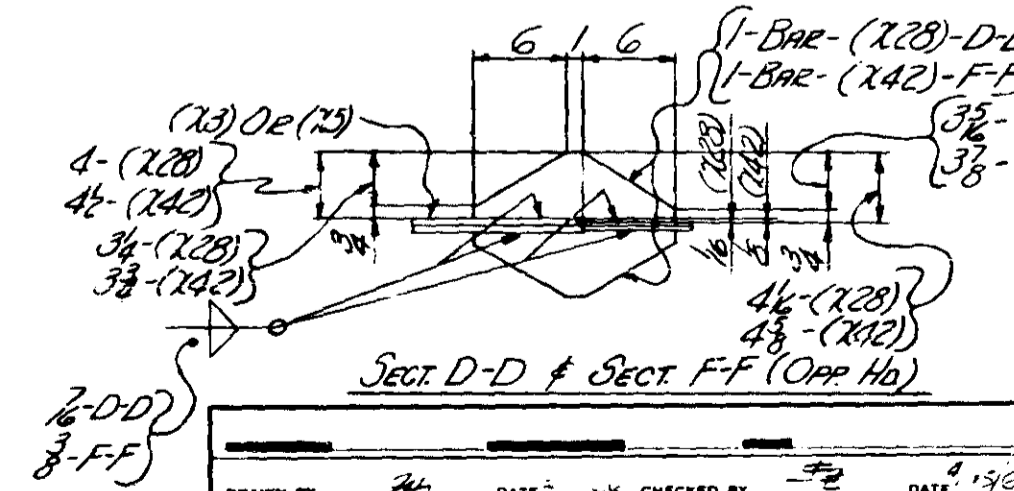
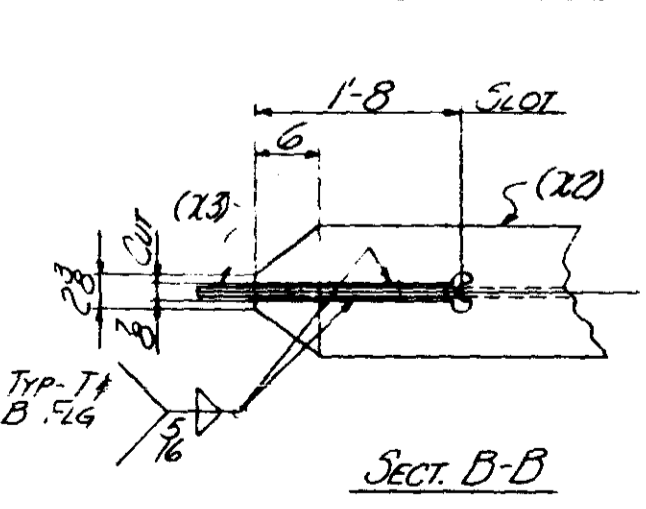
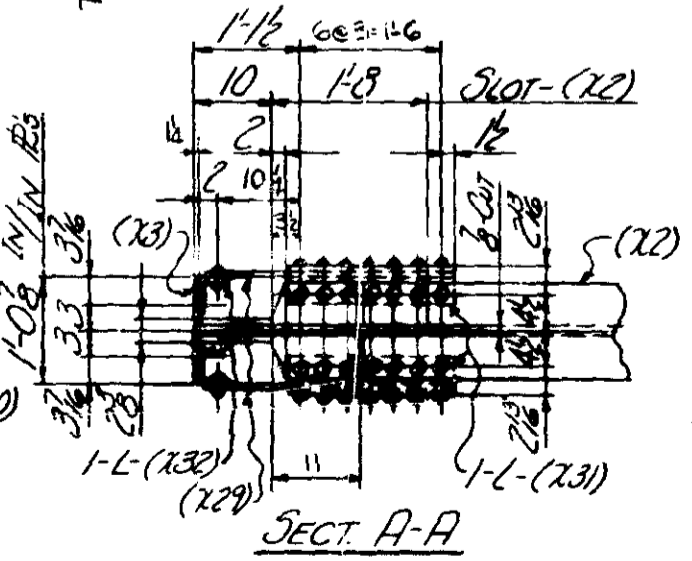
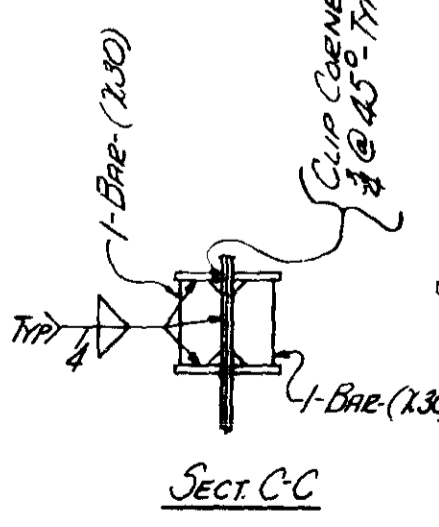
CONTRACT 3142 FABCOD 235 SHEET 1514



**NOTE**  
FOR FLANGE CUTS  
OF WEB MEMBERS  
SEE DETAILS ON  
SHT 1519 C.



DET #1  
DET #2



MINN PROJ NO I-IG35W-3(SB)112  
STATE PROJ NO 2783-9340B-(7H35W-394)

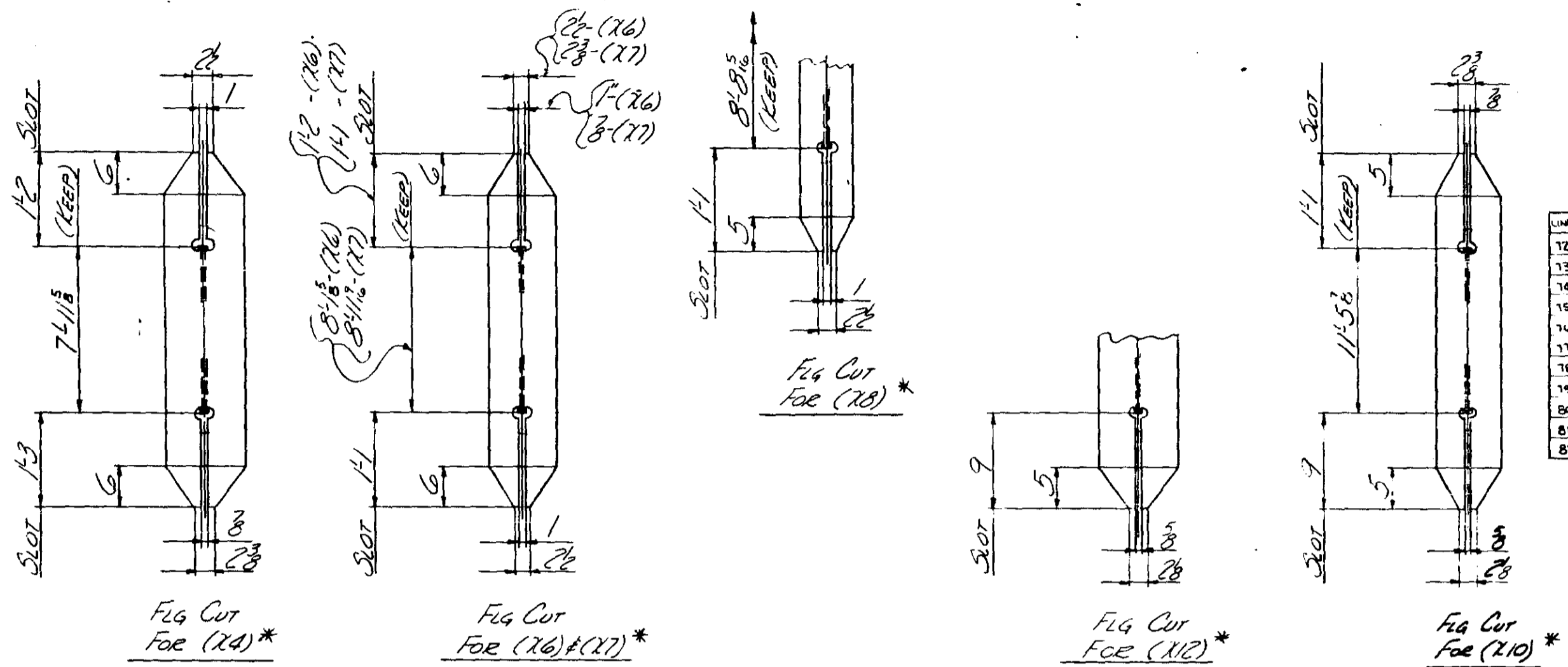
**ALLIED STRUCTURAL FABRICATORS**  
1425 15TH STREET, MINNEAPOLIS, MINN 55404

DETAILS OF FLOOR TRUSS @ U9  
STRUCTURE: BRIDGE No. 9340  
LOCATION: MINNEAPOLIS, MINN  
OWNER: MINN. STATE NAVY DEPT  
CUSTOMER: MINN. STATE NAVY DEPT

REVISIONS	2-15-67			

CONTRACT 3142 FABCOD 244 SHEET 1519 AC

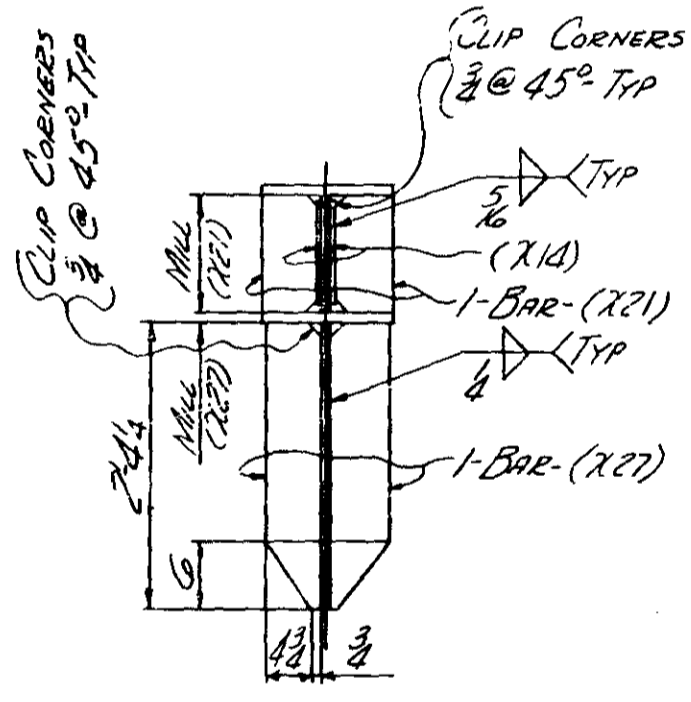




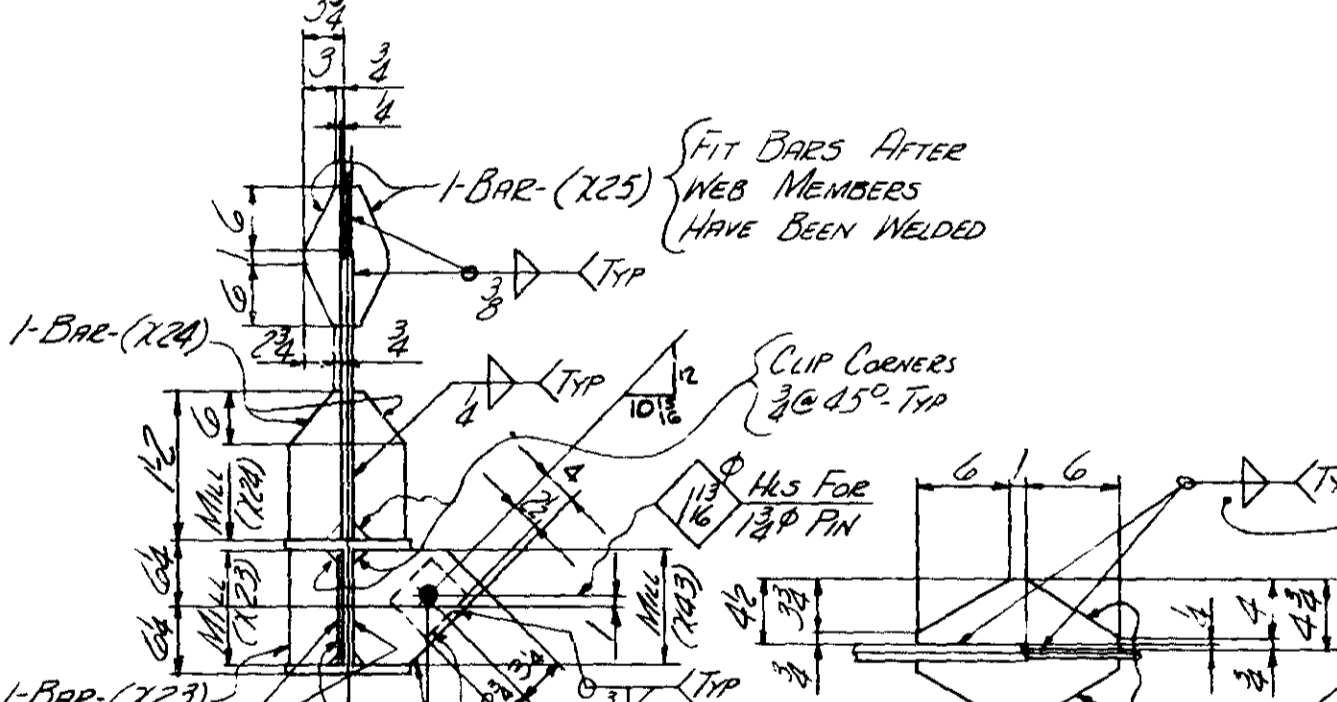
LINE	SHIP	NO	SHAPE	LENGTH	TOTAL
					WEIGHT
12	1	1	3 WLD	7 2	NE
13	1	1	4 WLD	126	0
14	1	1	3 WLD	267	8
15	1	1	3 WLD	126	6
16	1	1	3 WLD	116	8
17	1	1	2 WLD	21	6
18	1	1	3 WLD	21	4
19	1	1	3 WLD	3	9

BID ITEM  
59 = 24762

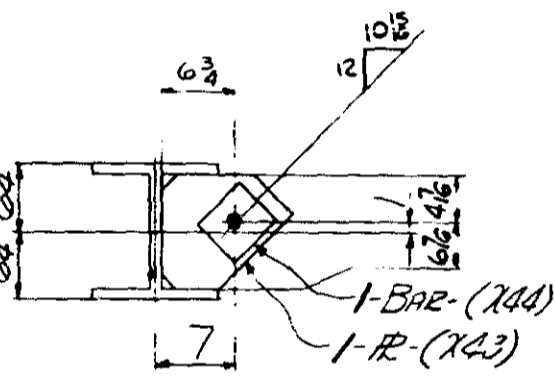
\* SEE SHTS XI & X2 FOR BEVEL CUTS FOR WELDING



SECTION G-G

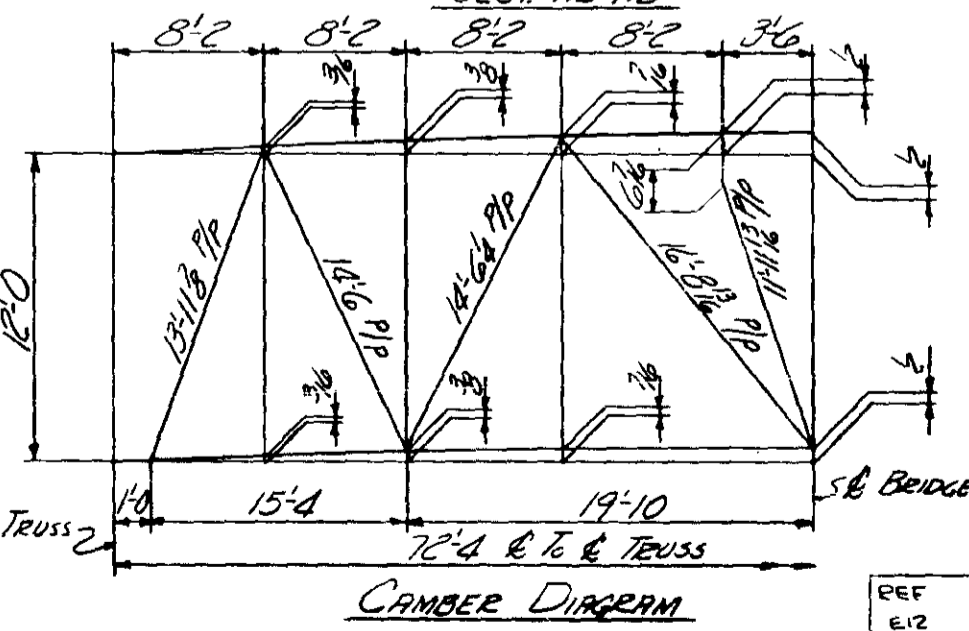


SECTION M-M



SECTION DD-BB

SECTION HH & SECTION K-K (OPP. HD.)



CAMBER DIAGRAM

LINE	SHIP	NO	SHAPE	LENGTH	REMARKS	TEMP	TOTAL WEIGHT
1	1	1	ONE FLOOR TRUSS (174 = 71'0)				
2	1	1	12WF106	63 11 21	SEC FOR LINE 2		
3	1	1	12WF106	28 0	PAY WT FOR LINE 2		
4	1	1	12WF65	17 11 3	LINE 3		
5	1	1	12WF85	68 11 22	SEC FOR LINE 4		
6	1	1	12WF85	45 8	PAY WT FOR LINE 4		
7	1	1	12WF65	11 7 2	LINE 6		
8	1	1	2 FC 36WF174	4 11 6 7 3	M. FLG		
9	1	1	12WF92	10 4 2 14			
10	1	1	2 R 30 x 3	5 4 2 5			
11	1	1	2 10WF54	10 4 3 16			
12	1	1	2 10WF54	11 1 2 27			
13	1	1	2 CWF55	3 2 2 18			
14	1	1	2 R 27 x 3	5 6 2 9			
15	1	1	2 CWF35	13 2 2 10			
16	1	1	2 R 22 x 3	5 0 2 11			
17	1	1	2 CWF35	10 4 2 12			
18	1	1	2 R 23 x 3	4 6 2 10			
19	1	1	2 R 9 x 3	5 4 2 14			
20	1	1	2 R 9 x 3	4 0 2 15			
21	1	1	2 R 9 x 3	4 0 2 15			
22	1	1	4 BAR 4 x 1/2	1 1	SEE LINE 23		
23	1	1	1 BAR 4 x 1/2	3 22	FOR LINE 23		
24	1	1	4 BAR 3/8 x 3/8	1 1	SEE LINE 25		
25	1	1	1 BAR 3/8 x 3/8	3 3 3	FOR LINE 25		
26	1	1	4 BAR 5/8 x 3/8	1 8 2	SEE LINE 27		
27	1	1	2 BAR 5/8 x 3/8	3 0 4	FOR LINE 27		
28	1	1	1 BAR 1/2 x 3/8	1 1	SEE LINE 29		
29	1	1	1 BAR 1/2 x 3/8	6 14	FOR LINE 29		
30	1	1	4 BAR 1/2 x 3/8	1 1	SEE LINE 31		
31	1	1	1 BAR 1/2 x 3/8	3 2 8	FOR LINE 31		
32	1	1	10 BAR 5/8 x 3/8	1 10 2 21	FOR LINE 32		
33	1	1	4 BAR 5/8 x 3/8	1 8 2	FOR LINE 33		
34	1	1	2 BAR 5/8 x 3/8	1 11 4	FOR LINE 34		
35	1	1	4 BAR 5/8 x 3/8	1 10 2 21	FOR LINE 35		
36	1	1	6 BAR 5/8 x 3/8	1 2 12 3	FOR LINE 36		
37	1	1	3 BAR 5/8 x 3/8	1 11 4	FOR LINE 37		
38	1	1	4 BAR 3/8 x 3/8	1 1	SEE LINE 39		
39	1	1	1 BAR 3/8 x 3/8	3 4	FOR LINE 39		
40	1	1	4 BAR 3/8 x 3/8	2 4 6	FOR LINE 40		
41	1	1	2 BAR 5/8 x 3/8	4 4 8	FOR LINE 41		
42	1	1	4 BAR 1/2 x 3/8	1 1	SEE LINE 43		
43	1	1	1 BAR 1/2 x 3/8	3 3 4	FOR LINE 43		
44	1	1	4 R 19 1/2 x 1/2	2 7 4 2 9			
45	1	1	4 BAR 5/8 x 3/8	1 10 2 21			
46	1	1	4 L 4 x 1/2	1 9 2 3 1			
47	1	1	4 L 5 x 3/8	1 5 2 7 3 2			
48	1	1	4 BAR 1/2 x 3/8	1 1	SEE LINE 49		
49	1	1	4 R 10 x 3/8	1 6 4 2 3 4			
50	1	1	4 R 10 x 3/8	1 6 4 2 3 4			
51	1	1	4 R 9 x 3/8	1 2 4 2 3 7			
52	1	1	4 BAR 5/8 x 3/8	1 2 12 3	FOR LINE 52		
53	1	1	2 BAR 5/8 x 3/8	1 11 4	FOR LINE 53		
54	1	1	1 R 10 x 3/8	5 2 14 7			
55	1	1	1 R 10 x 3/8	3 3 2 4 1			
56	1	1	4 BAR 1/2 x 3/8	1 1	SEE LINE 57		
57	1	1	1 BAR 1/2 x 3/8	3 2 11	FOR LINE 57		
58	1	1	4 R 10 x 3/8	1 0 2 8 1			
59	1	1	4 BAR 5/8 x 3/8	0 5 3 2 4 1			
60	1	1	4 BAR 5/8 x 3/8	3 3 2 4 5			
61	1	1	4 BAR 5/8 x 3/8	0 10 6 2 4 6			
62	1	1	1 BAR 4 x 3/8	3 2 1 6			
63	1	1	1 R 18 1/2 x 3/8	3 3 2 4 1			
64	1	1	1 R 10 x 3/8	1 0 2 8 1			
65	1	1	1 R 10 x 3/8	1 0 2 8 1			
66	1	1	1 R 10 x 3/8	1 0 2 8 1			
67	1	1	2 R 10 x 1/4	1 0 2 8 1			
68	1	1	1 R 10 x 2 1/2	1 0 2 8 1			
69	1	1	1 R 10 x 3/8	1 0 2 8 1			
70	1	1	1 R 10 x 3/8	1 0 2 8 1			
71	1	1	107				

SHOP NOTE  
 1. FOR GEN. NOTES SEE SH. GNI  
 2. FOR MATL SPECS SEE BILL OF MATL  
 3. FOR INSPECTION OF WELDS SEE NOTE ON SH. GNI  
 4. FOR SHOP WELDING SEQ. OF WEB MEMBERS SEE DRWG (X1)  
 5. FOR XRAY IDENT. NR SEE SH. W1

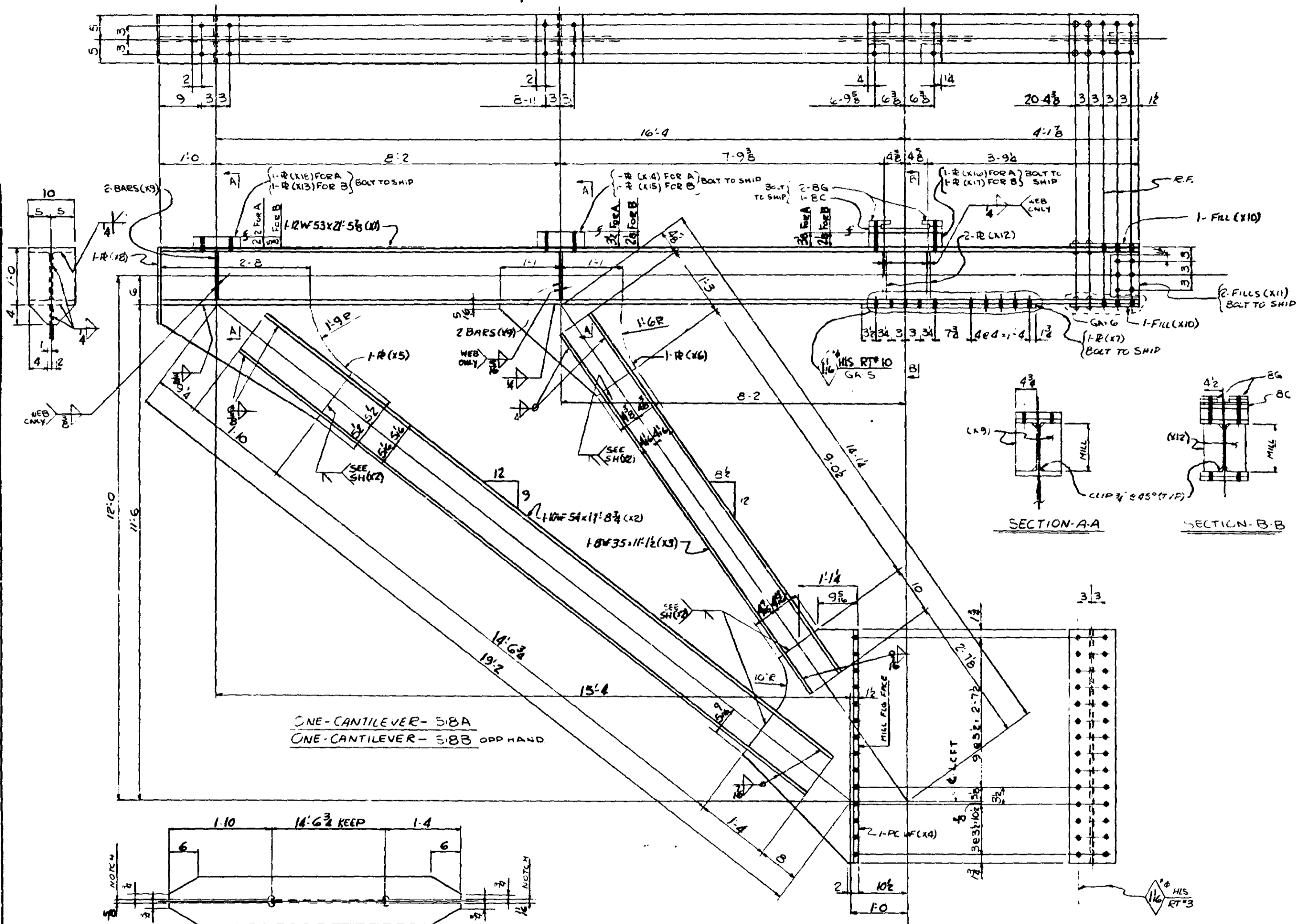
MINN PROJ No. I-IG35M-3(58)112  
 STATE PROJ No. 2783-9340B(113SW 394)

**ALLIED STRUCTURAL FABRICATORS**  
 ENGINEERS, ARCHITECTS, FABRICATORS, ERECTORS  
 1100 STATE STREET, MINNEAPOLIS, MINN.

DETAILS OF FLOOR TRUSS @ U9  
 STRUCTURE BRIDGE No. 2340  
 LOCATION MINNEAPOLIS, MINN.  
 OWNER MINN. STATE HWY DEPT.  
 CUSTOMER MINN. STATE HWY DEPT.

CLINTON-FAB DIVISION 15  
 OPEN HOLES 1/2" UN. RIVETS & BOLTS 3/8" PAINT YES, SEE SH. GNI  
 DRAWN BY: JAL DATE 3/3/65 CHECKED BY: JFE DATE 4/5/66

CONTRACT 3142 FABCOD 244 SHEET 1519 C



ONE-CANTILEVER-SIBA  
ONE-CANTILEVER-SBB OPP HAND

FLANGE CUTTING FOR (X2) \*

FLANGE CUTTING FOR (X3) \*

\* SEE SHIT X1 & X2 FOR BEVEL CUTS FOR WELDING

SHOP NOTE:  
1 FOR GEN'L NOTES SEE GNI  
2 FOR MAT'L SPECS. SEE  
BILL OF MATERIAL  
3 FOR X-RAY IDENT. NS SEE  
SHEET W1  
4 FOR INSPECTION OF WELDS-SEE  
NOTE ON SH GNI  
5 FOR SHOP WELDING SEQUENCE OF WEB  
MEMBERS-SEE DRWG. (X1)

LINE	QTY	SHAPE	LENGTH	PC	REMARKS	WT	TOTAL WEIGHT	MSD	MSDC
1									
2									
3									
4	15	SIBA ONE CANTILEVER	(168 x 21'6")	AS SHD					
5	15	SBB ONE CANTILEVER	(168 x 21'6")	OPP HD					
6									
7									
8									
9	2	12 WF 53	21'5 1/2	X1		4001	59	2278	3306
10	2	10 WF 54	17'0 3/4	X2		4520		1915	
11	2	8 WF 35	11'1 1/2	X3		4641		777	
12	2	R 30 WF 108	4'1	X4	M.F.L.G.	4442		882	
13	2	R 23 1/2 x 2	3'4 1/2	X5		4443		268	
14	2	R 19 x 8	2'5 1/2	X6		4444		119	
15	2	R 10 x 8	3'5 1/2	X7	UM	4445		176	
16	2	R 10 x 3 1/2	1'4	X8		4446		34	
17	2	R 4 1/2 x 2	0'10 1/2	X9	MZE	4447		59	
18	4	FILL 10 x 1 1/2	1'3	X10		4448		74	
19	4	FILL 10 x 1 1/2	0'9	X11		4449		8	
20	8	R 4 1/2 x 2	0'10 1/2	X12	MZE	4450		55	
21		R 10 x 3 1/2	0'10	X13	FOR S	4451		18	
22		R 10 x 3 1/2	0'10	X14	FS FOR A	4452		103	
23		R 10 x 3 1/2	0'10	X15	FS FOR B	4453		64	
24		R 10 x 3 1/2	1'3 1/4	X16	FS FOR A	4454		140	
25		R 10 x 3 1/2	1'3 1/4	X17	FS FOR B	4455		97	
26	1	R 10 x 2 1/2	0'10	X18	FS FOR A	4456	59	74	3306
27									
28	2				6 1/2" FOR DET				
29	2				BC SEE SHIT B				
30									
31									
32									
33									
34									
35									
36									
37	2	1/2 WLD	26'6						NC
38	2	3/8 WLD	3'4						
39	2	1/2 WLD	23'4						
40	2	3/8 WLD	7'4						
41	2	3/8 WLD	0'5 1/2						
42	16	8° RLV							
43	24	SB							
44									
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**ALLIED** STRUCTURAL STEEL COMPANY  
FABRICATORS & ERECTORS  
1225 SOUTH STONEY HARBOR, MINNEAPOLIS, MINN.

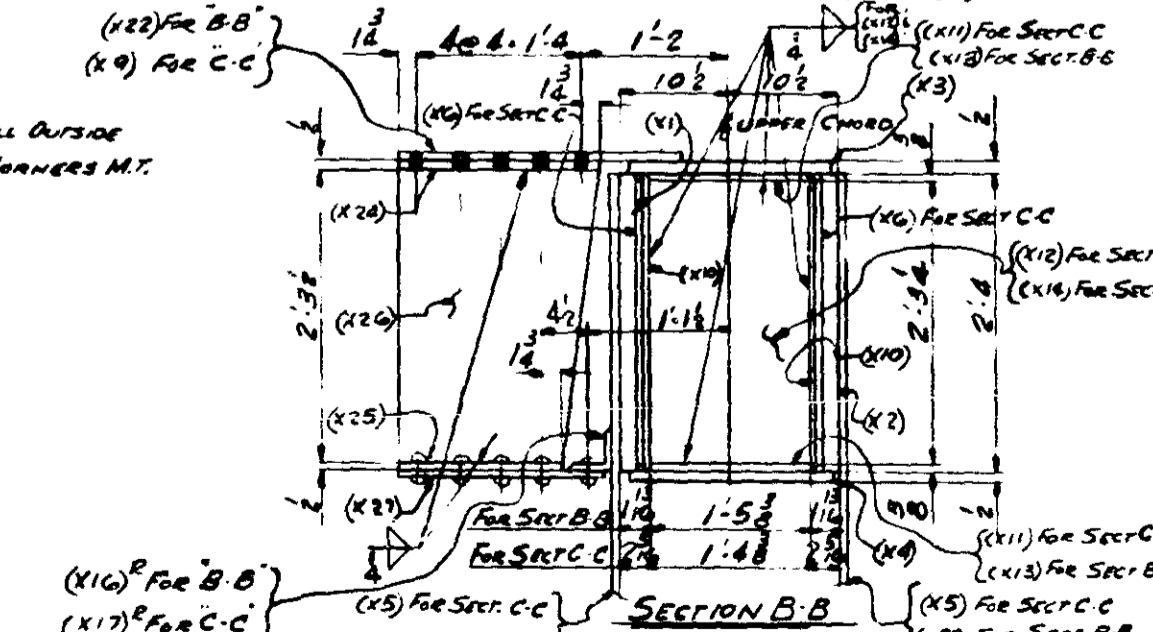
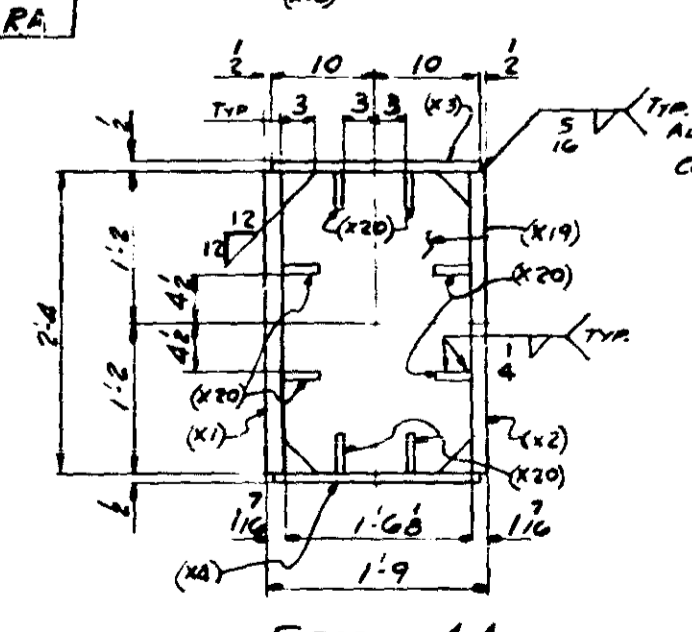
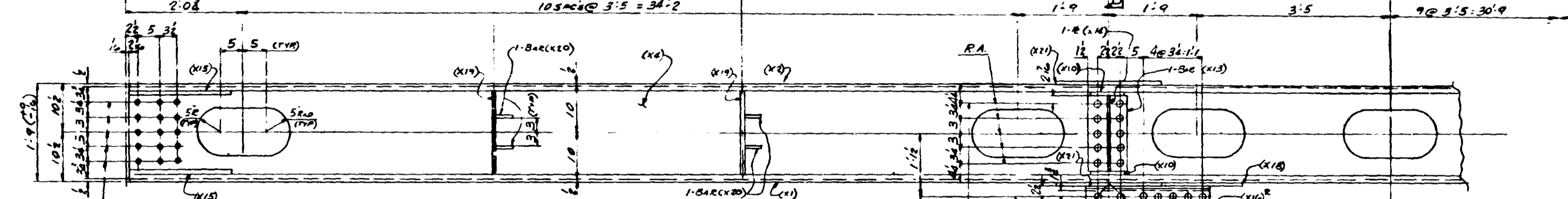
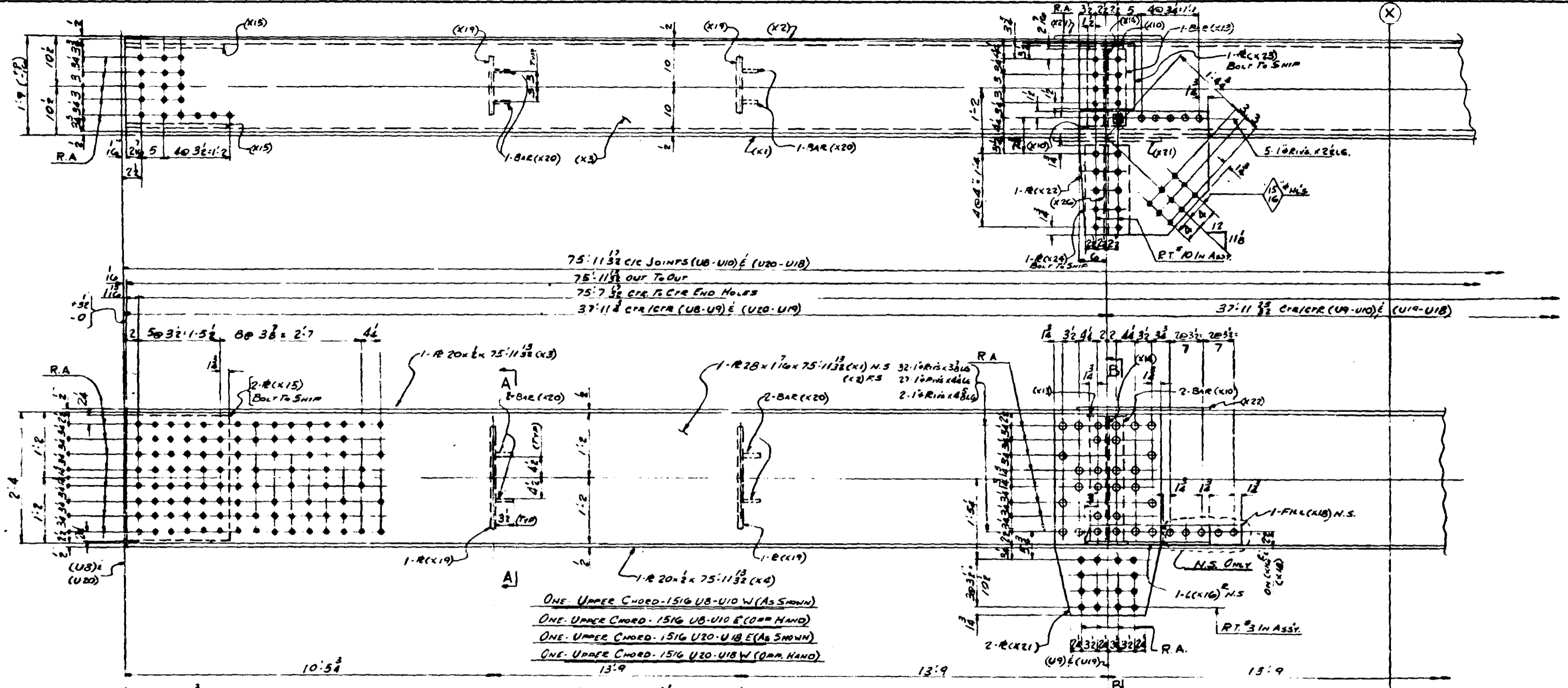
MINN. PROJ. NO. I-1635W-3 (5B) 112  
STATE PROJ. NO. 2183-9340B (TH 35W-39A)

DETAILS OF: CANTILEVER @ U9  
STRUCTURE: BRIDGE NO. 9340  
LOCATION: MINNEAPOLIS, MINNESOTA  
OWNER: MINNESOTA STATE HWY. DEPT.  
CUSTOMER: MINNESOTA STATE HWY. DEPT.

DRAWN BY: [Signature] DATE: 3-1-66 CHECKED BY: [Signature] DATE: 4/15/66

CONTRACT 3142 FABCOD 244 SHEET 1518

8 SHOP REV  
NO. 16 LGTH  
2 1/2



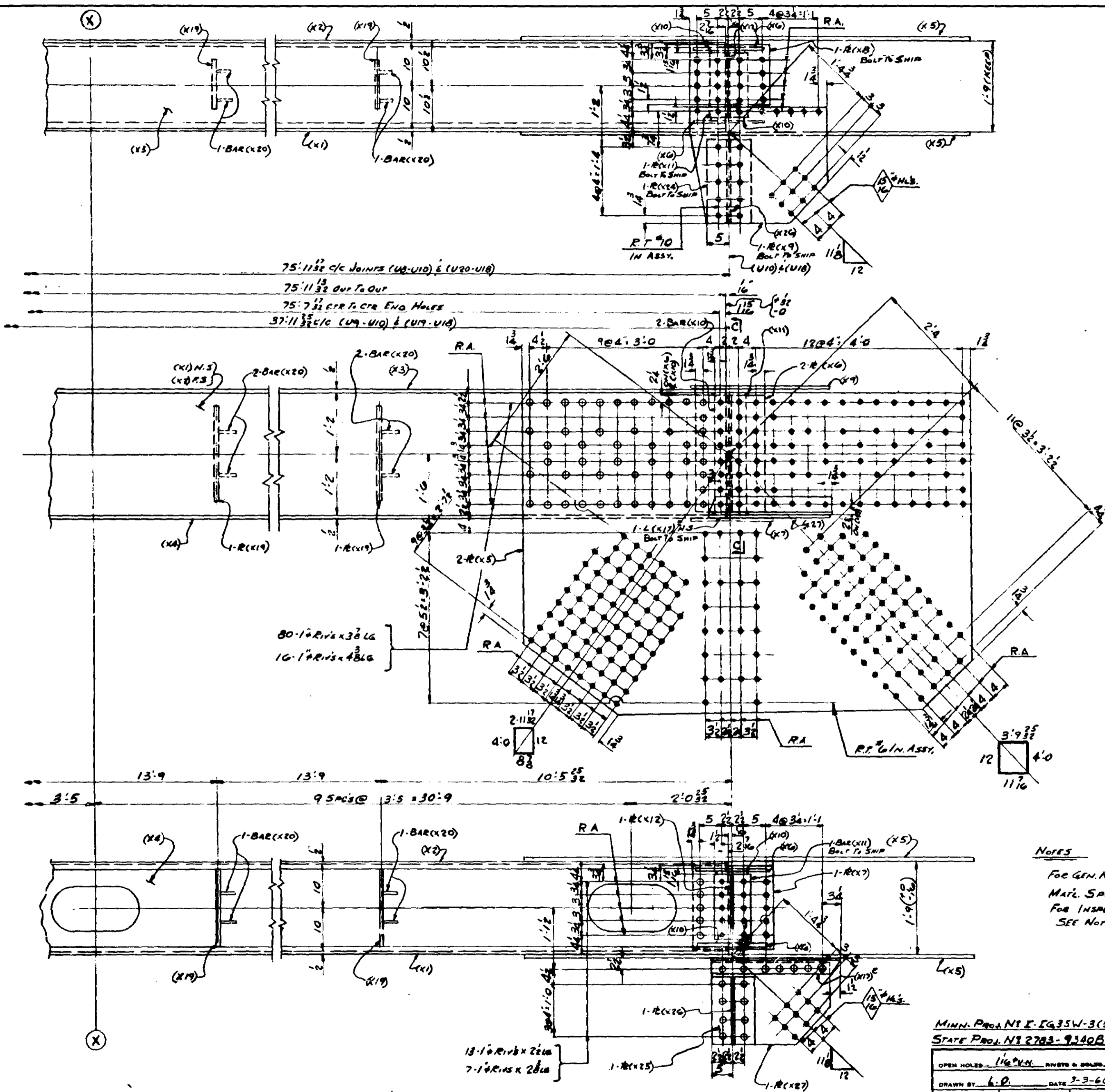
MICRO-FILM  
 MINN. PROJ. NR I-IG35W-3(SB)112  
 STATE PROJ. NR 2785-9340 B (TN35W-594)

**ALLIED** STRUCTURAL STEEL COMPANY  
 ENGINEERS, FABRICATORS, ERECTORS

DETAILS OF UPPER CHORD (UB-U10) & (U20-U18)  
 STRUCTURE BRIDGE NR 9340  
 LOCATION MINNEAPOLIS, MINNESOTA  
 OWNER MINNESOTA STATE HWY. DEPT.

CONTRACT	3142	DIV.	15	FABCOD	215	SHEET	1516AB
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REVISIONS	DATE	BY	DESCRIPTION

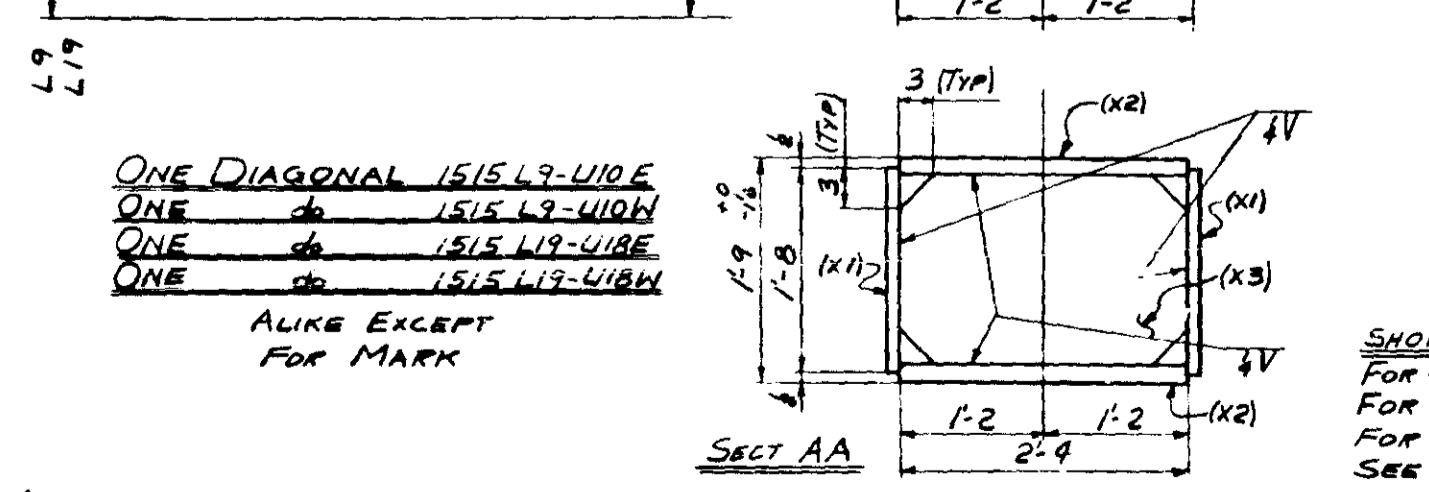
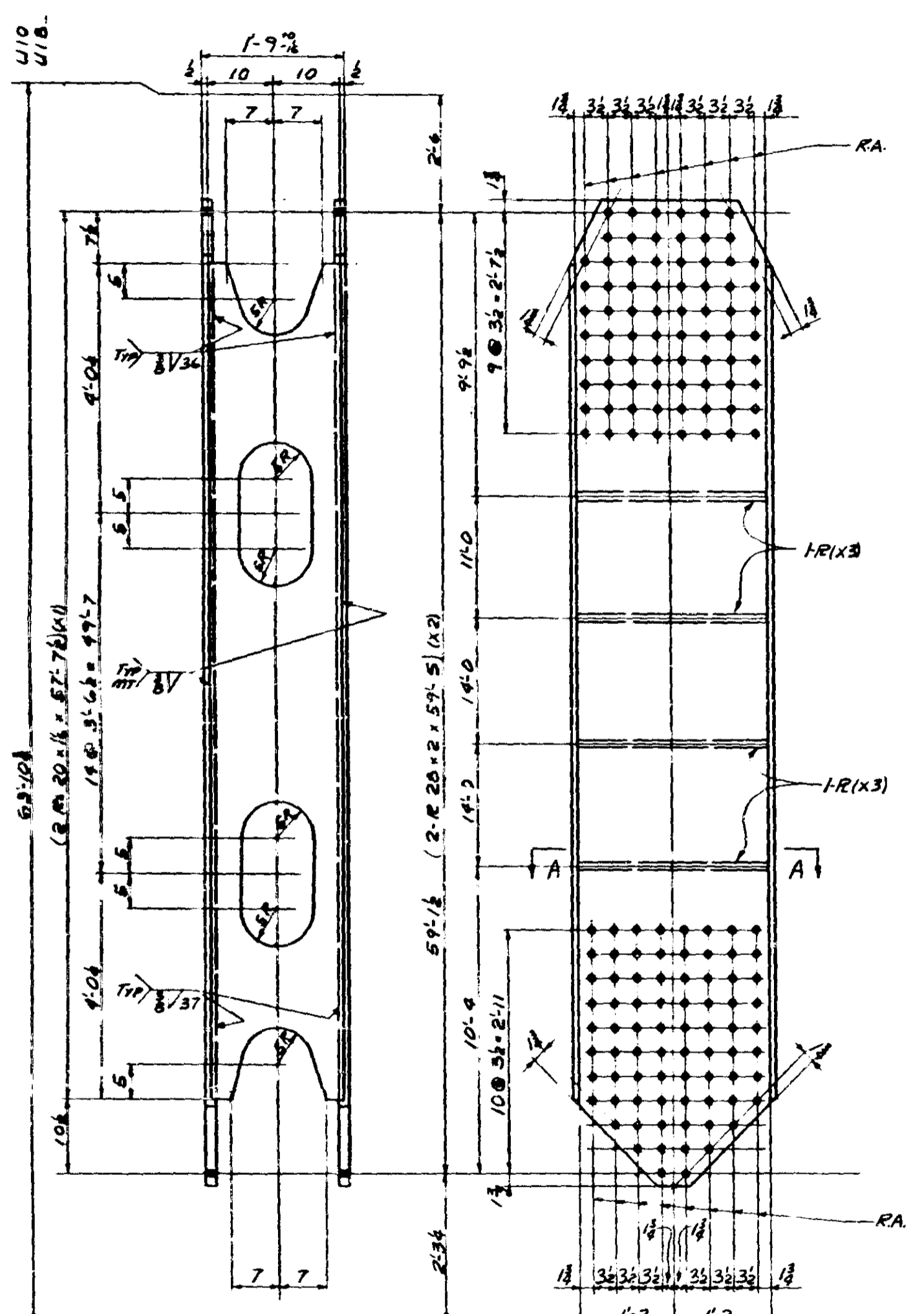


Divs	LINE	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL
15	17	1						
1	2	1	ONE UPPER CHORD	-1516 UB-110 W- AS SHOWN				
1	3	1	ONE UPPER CHORD	-1516 UB-110 E- AS SHOWN				
1	4	1	ONE UPPER CHORD	-1516 UB-110 E- AS SHOWN				
1	5	1	ONE UPPER CHORD	-1516 UB-110 W- AS SHOWN				
7	4	4	R 20x12	75 11/16 X1			3102	60 41577 3309
8	4	4	R 20x16	75 11/16 X2			3178	60 41577 3309
9	4	4	R 20x12	75 11/16 X3			3203	61 10330 3310
10	4	4	R 20x12	75 11/16 X4			3208	61 10330 3310
11	4	4	R 27x12	81 0 X5			3204	61 8639 3310
12	4	4	R 27x12	1 3/4 X6 U.M.			3205	61 983 3310
13	4	4	R 19x12	1 6/8 X7 U.M.			3206	61 189 3310
14	4	4	R 19x12	1 6/8 X8 U.M.			3207	61 112 3310
15	4	4	R 27x12	2 7/8 X9			3208	59 362 3306
16	16	16	BAR 7/8 X 3	2 4 X10			3209	59 357 3306
17	8	8	BAR 8 X 3	1 4/8 X11			3210	59 111 3306
18	4	4	R 16x12	2 3/4 X12			3211	59 253 3306
19	8	8	BAR 8 X 3	1 5/8 X13			3212	59 118 3306
20	4	4	R 17x12	2 3/4 X14			3213	59 268 3306
21	8	8	R 27x12	1 9/8 X15			3214	61 488 3310
22	4	4	L 4x4x1/2	2 3/8 X16			3215	59 89 3306
23	4	4	L 4x4x1/2	2 4/8 X17			3216	59 94 3306
24	4	4	File Bar 4x4	1 5/8 X18			3217	59 90 3306
25	16	16	R 18x12	2 4 X19			3218	59 863 3306
26	120	120	BAR 3/8 X 3	0 3/8 X20			3219	59 166 3306
27	8	8	R 23x12	3 7/8 X21			3220	59 1164 3306
28	4	4	R 27x12	2 4/8 X22			3221	59 329 3306
29	4	4	R 12x12	1 2/8 X23			3222	59 73 3306
30	8	8	R 10x12	1 7/8 X24			3223	59 221 3306
31	8	8	R 10x12	1 3/8 X25			3224	59 176 3306
32	8	8	R 19x12	2 3/8 X26			3225	59 412 3306
33	8	8	R 20x12	2 3/8 X27			3226	59 463 3306
34	810	810	R 1/8 X 1/4					NC
35	80	80	S 8 X 1/4					
36	4	4	1/2 W.D.	303 10				
37	4	4	W.D.	59 9				
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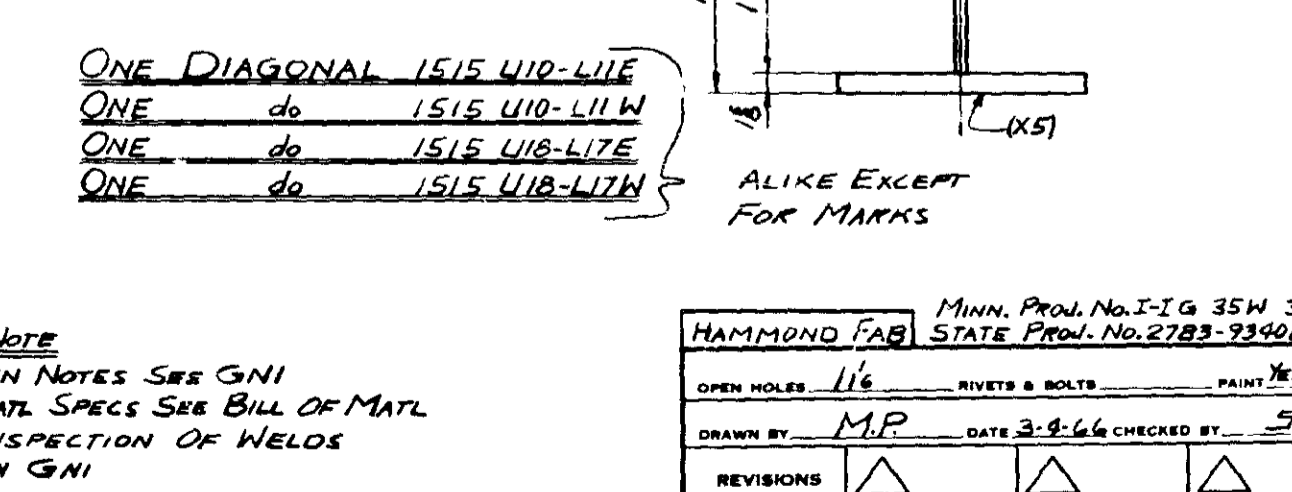
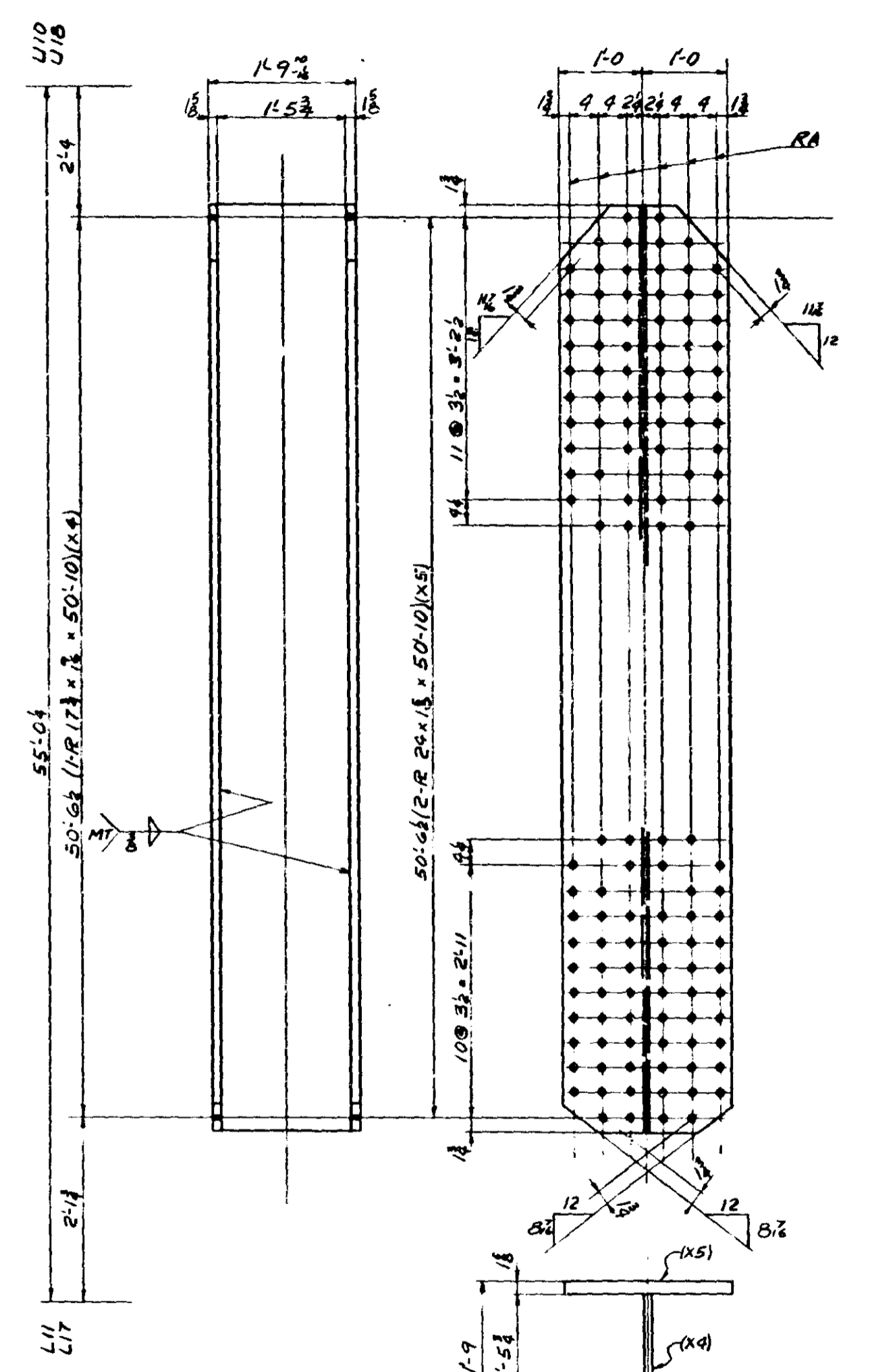
NOTES  
 FOR GEN. NOTES SEE SUP. G.N.I  
 MAT. SPECS. SEE BILL OF MAT.  
 FOR INSPECTION OF WELDS,  
 SEE NOTE ON SUP. G.N.I.

MINN. PROJ. NY E-1635W-3(50)112  
 STATE PROJ. NY 2783-9380B(LTNSW-394)  
 DIVISION 156#17  
 HANNOVER, MINN.  
 OPEN HOLES 1/4" DIA. RIVETS & BOLTS 1" DIA. YES SEE SUP. G.N.I  
 DRAWN BY L.P. DATE 3-3-66 CHECKED BY J.P. DATE 4/16/66

**ALLIED** STRUCTURAL STEEL COMPANY  
 ENGINEERS, FABRICATORS, ERECTORS  
 1335 15TH STREET, HANNOVER, MINN. 55103  
 DETAILS OF UPPER CHORD (UB-110) & (UB-110)  
 STRUCTURE BRIDGE NO. 9360  
 LOCATION MINNEAPOLIS, MINNESOTA  
 OWNER MINNESOTA STATE HIGHWAY DEPT.  
 CUSTOMER MINNEAPOLIS STATE HIGHWAY DEPT.  
 CONTRACT 3142 FABCOD 215 SHEET 1516B



ONE DIAGONAL 1515 L9-U10E  
 ONE do 1515 L9-U10W  
 ONE do 1515 L9-U10E  
 ONE do 1515 L9-U10W  
 ALIKE EXCEPT FOR MARK



ONE DIAGONAL 1515 U10-L11E  
 ONE do 1515 U10-L11W  
 ONE do 1515 U10-L11E  
 ONE do 1515 U10-L11W  
 ALIKE EXCEPT FOR MARKS

SHOP NOTE  
 FOR GEN NOTES SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION OF WELDS SEE SN GNI

Div	ITEM NO	SHIP MK	NO REQ	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT
1517	1								
	2								
1	3	One		DIAGONAL	1515 L9-U10E		(28 x 59'-6)		
1	4	One		do	1515 L9-U10W				
1	5	One		do	1515 L9-U10E				
1	6	One		do	1515 L9-U10W				
	7								
	8	8	R	20 x 1/2	57 7/8	X1		2020	61 21552 2810
	9	8	R	28 x 2	59.5	X2		2019	60 98303 3309
	10	16	R	17 x 1/2	29	X3		2021	59 809 2806
	11								
	12	4	WLD		22	0			NC
	13	4	WLD		28	10			NC
	14								
	15								
1	16	One		DIAGONAL	1515 U10-L11E		(29 x 50'-10)		
1	17	One		do	1515 U10-L11W				
1	18	One		do	1515 U10-L11E				
1	19	One		do	1515 U10-L11W				
	20								
	21	4	R	17 1/2 x 1/2	50.10	X4		2020	61 4923 2310
	22	8	R	29 x 1/2	50.10	X5		2020	60 52924 3309
	23								
	24	4	WLD		20	4			NC
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**ALLIED** STRUCTURAL STEEL COMPANY  
 1100 WEST STREET STAMPAED, MINN. 55101

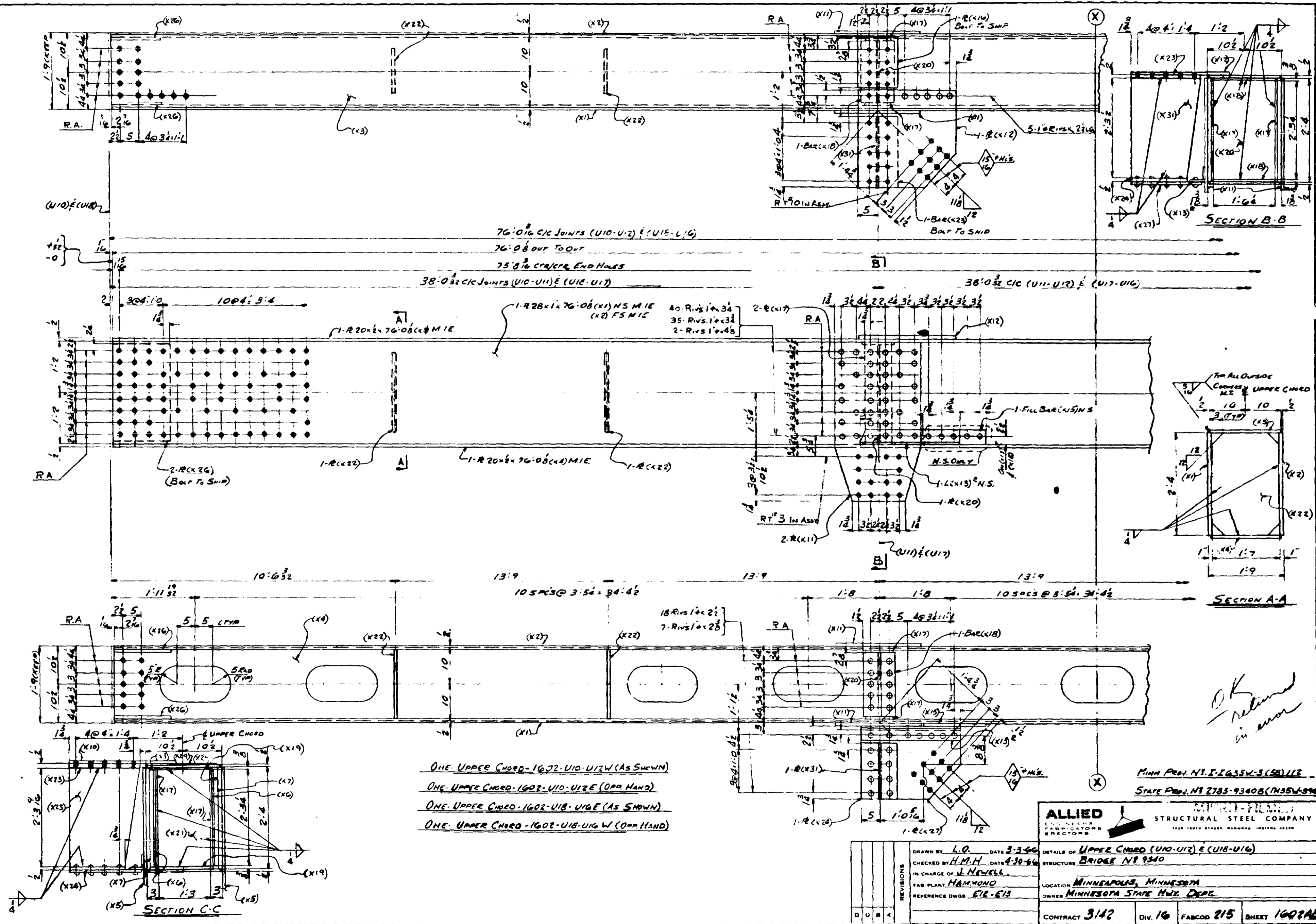
DETAILS OF: TRUSS DIAGONAL  
 STRUCTURE: BRIDGE NO 9390  
 LOCATION: MINNEAPOLIS MINNESOTA  
 OWNER: MINN STATE HWY DEPT.  
 CUSTOMER: MINN STATE HWY DEPT.

CONTRACT 3142 FABCOD 214 235 SHEET 1515

HAMMOND FAB  
 MINN. PROJ. NO. I-G 35W 3158112  
 STATE PROJ. NO. 2783-93408 (TR 35W-394)

OPEN HOLES 1/2 RIVETS & BOLTS PAINT YES SEE SHT GNI  
 DRAWN BY MP DATE 3-8-66 CHECKED BY FR DATE 3/11/66

REVISIONS



- ONE UPPER CHORD - 1602-U10-U12W (AS SHOWN)
- ONE UPPER CHORD - 1602-U10-U12E (OPP HAND)
- ONE UPPER CHORD - 1602-U18-U16E (AS SHOWN)
- ONE UPPER CHORD - 1602-U18-U16W (OPP HAND)

NO.	DATE	DESCRIPTION

**ALLIED**  
 ENGINEERS  
 FABRICATORS  
 STRUCTURAL STEEL COMPANY  
 1125 10TH STREET, MINNEAPOLIS, MINN. 55403

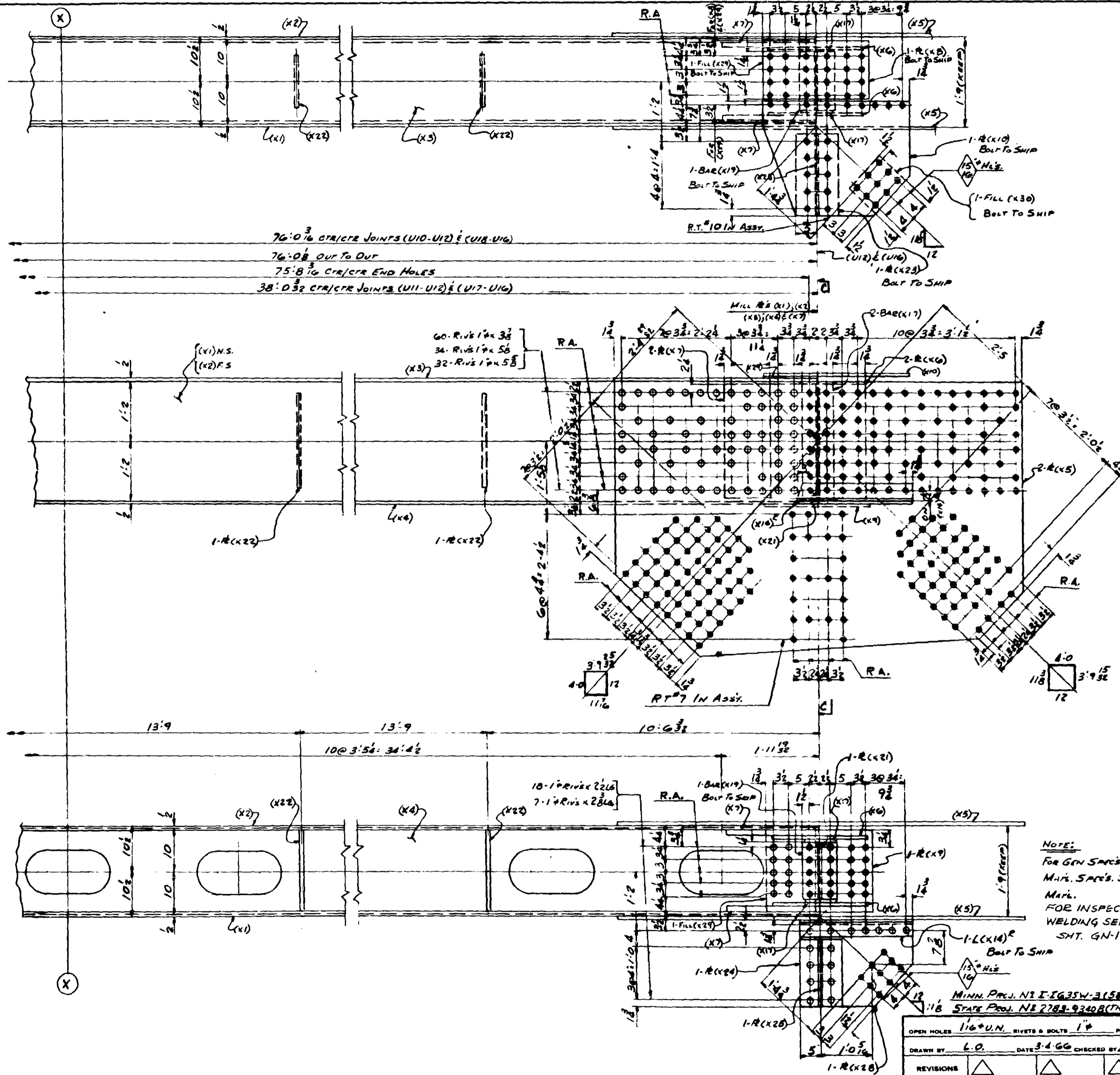
DRAWN BY: L.O. DATE: 3-3-60  
 CHECKED BY: H.M.H. DATE: 4-30-60  
 IN CHARGE OF: J. NEWELL  
 FAB PLANT: HAMMOND  
 REFERENCE DWG: E18-E13

DETAILS OF: UPPER CHORD (U10-U12) & (U18-U16)  
 STRUCTURE: BRIDGE NO. 9340

LOCATION: MINNEAPOLIS, MINNESOTA  
 OWNER: MINNESOTA STATE HWY. DEPT.

CONTRACT: 3142    DIV. 16    FAB. NO. 215    SHEET 1602AB





Div's	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	WGT
16 18	NR	REGD			NR		NO	WT	WT
1	2	ONE	UPPER CHORD - U10-U12						
1	3	ONE	UPPER CHORD - U10-U12						
1	4	ONE	UPPER CHORD - U18-U16						
1	5	ONE	UPPER CHORD - U18-U16						
6									
7	4	R 28x1	76.00	X1	M.I.E.	2802	59	28915	3306
8	4	R 28x1	76.00	X2	M.I.E.	3001	59	28915	3306
9	4	R 20x2	76.00	X3	M.I.E.	2803	59	10337	3306
10	4	R 20x2	76.00	X4	M.I.E.	2804	59	10337	3306
11	8	R 6x1	0.12	X5		2805	60	19199	3307
12	8	R 22x2	1.10	X6		2806	61	701	3310
13	8	R 22x2	1.10	X7	M.I.E.	2807	59	1578	3306
14	4	R 19x2	2.12	X8		2808	61	159	3310
15	4	R 19x2	2.12	X9		2809	61	206	3310
16	4	R 22x2	2.11	X10		2810	59	905	3306
17	8	R 22x2	3.12	X11		2811	59	1139	3306
18	4	R 22x2	2.34	X12		2812	59	313	3306
19	4	R 22x2	2.34	X13		2813	59	89	3306
20	4	R 22x2	2.34	X14		2814	59	70	3306
21	4	FILL BAR	1.53	X15		2815	59	90	3306
22	4	R 10x2	1.24	X16		2816	59	61	3306
23	16	BAR 72	2.4	X17		2817	59	357	3306
24	8	BAR 8x2	1.64	X18		2818	59	129	3306
25	8	BAR 8x2	1.3	X19		2819	59	102	3306
26	4	R 18x2	2.34	X20		2820	59	282	3306
27	4	R 15x2	2.34	X21		2821	59	232	3306
28	16	R 19x2	2.4	X22		2822	59	905	3306
29	8	R 10x2	1.72	X23		2823	59	221	3306
30	8	R 10x2	1.32	X24		2824	59	176	3306
31	4	R 19x2	2.34	X25		2825	59	205	3306
32	8	R 22x2	1.30	X26		2826	59	418	3306
33	4	R 20x2	2.24	X27		2827	59	232	3306
34	4	R 19x2	2.34	X28		2828	59	229	3306
35	8	R 12x2	1.72	X29	BRASS	2829		38	
36	8	R 9x2	0.11	X30	BRASS	2830		8	
37	100	RIVETS 1\"/>							

NOTES:  
 For GEN SPEC'S SEE SH. GN-1  
 Min. SPEC'S SEE BILL OF  
 MATL.  
 FOR INSPECTION OF  
 WELDING SEE NOTS ON  
 SH. GN-1

**ALLIED MICRO-FIL COMPANY**  
 STRUCTURAL STEEL COMPANY  
 1400 WEST STREET, HANNOVER, MINN. 55103

DETAILS OF UPPER CHORD (U10-U12) & (U18-U16)  
 STRUCTURE BRIDGE NR 9854  
 LOCATION MINNEAPOLIS, MINN. 55401  
 OWNER MINNESOTA STATE HWY. DEPT.  
 CUSTOMER MINNESOTA STATE HWY. DEPT.

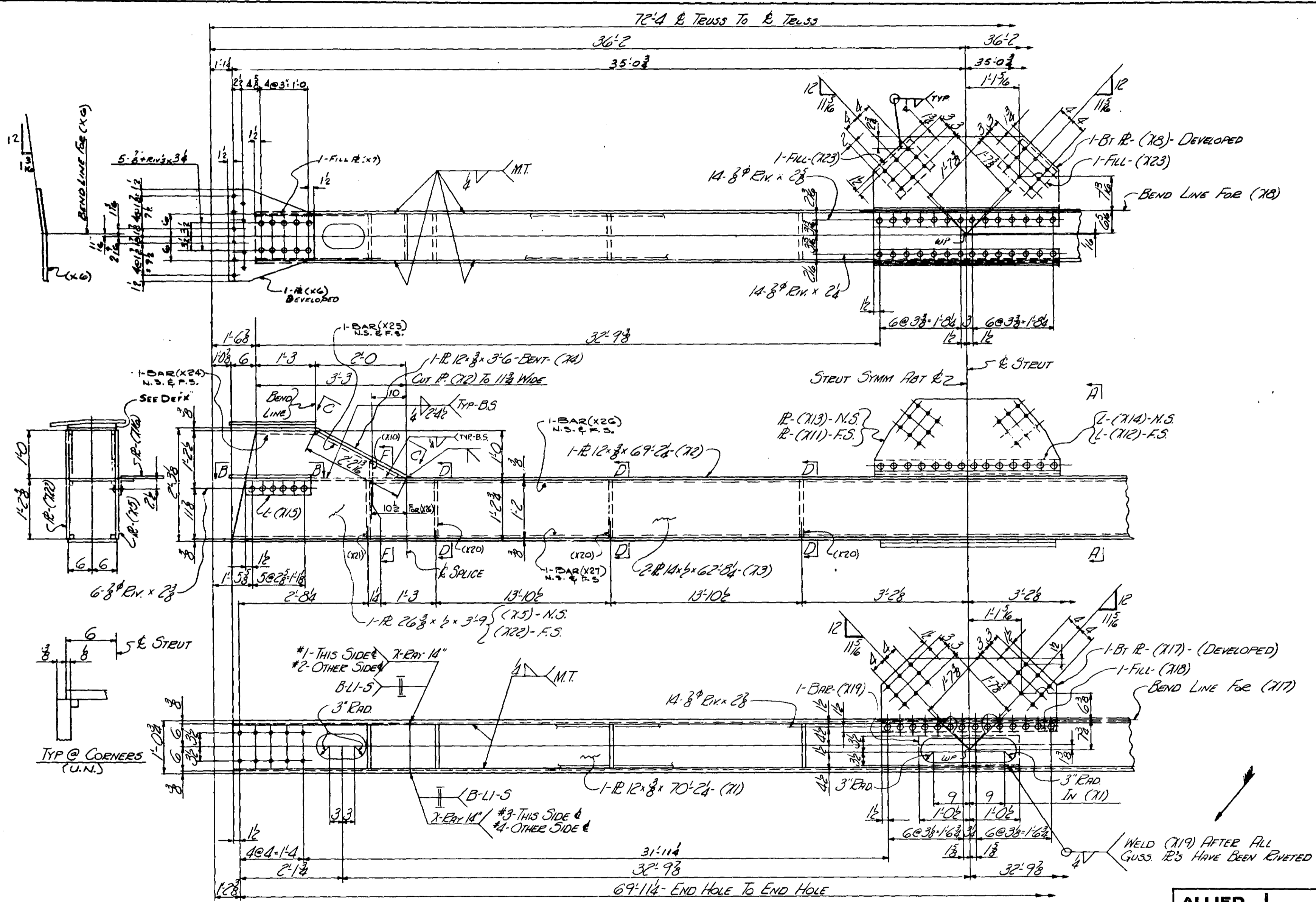
MINN. PROJ. NR 11635W-3(58)112  
 STATE PROJ. NR 228-9340(BTHSW34) HANNOVER PA

OPEN HOLES 1 1/2" O.N. RIVETS & BOLTS 1" PAINT YES SEE SH. GN-1

DRAWN BY L.O. DATE 3-4-66 CHECKED BY H.M.H. DATE 3-30-66

REVISIONS: [ ] [ ] [ ] [ ]

CONTRACT 3142 FABCOD 215 SHEET K02B



ONE - STEUT-1510A - (L11) } ALIKE EXCEPT  
 ONE - STEUT-1510B - (L17) } FOR MARKS

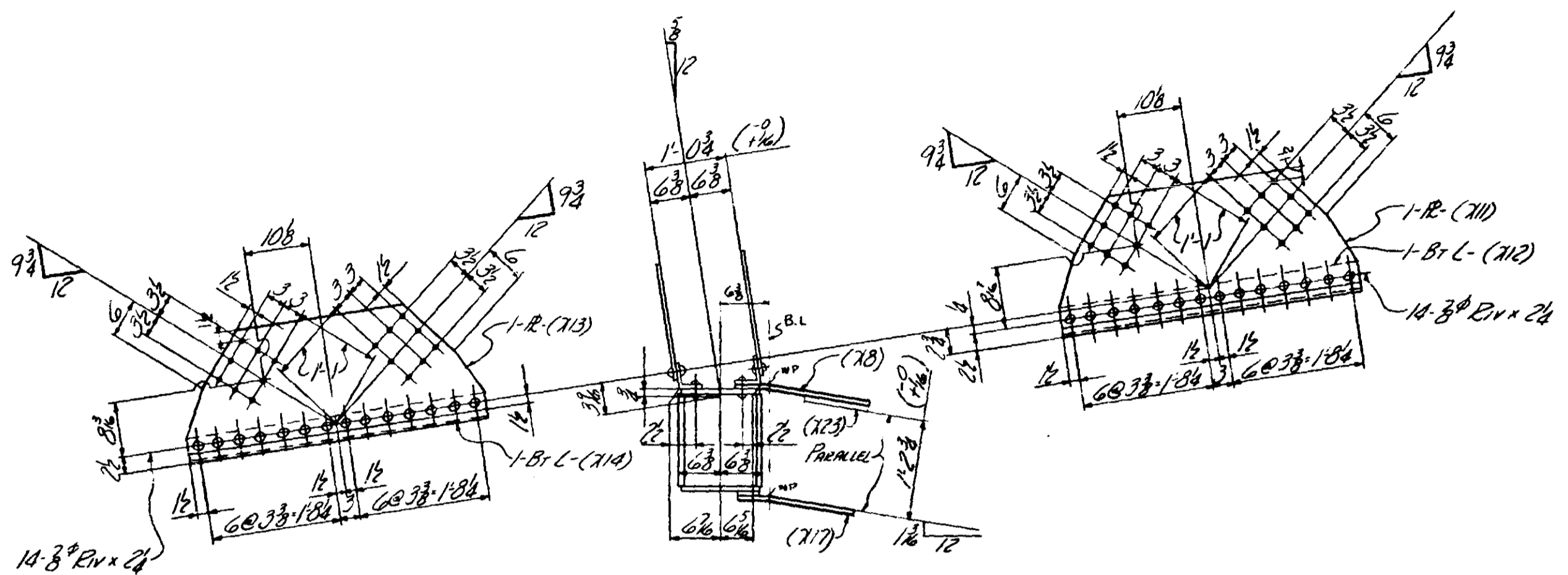
MINN. PROJ. N° I-1935W-3 (58)112  
 STATE PROJ. N° 2783-9340B (7H35W-394)

NO.	DATE	REVISIONS
1	3/1/66	
2	4/2/66	

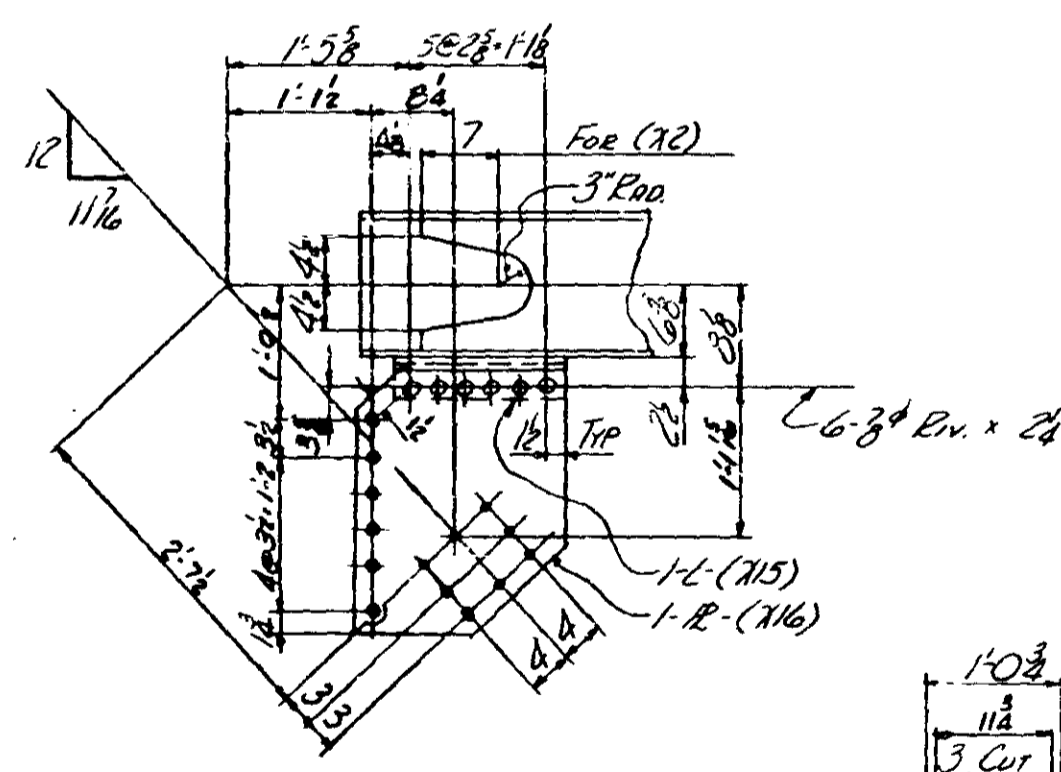
DRAWN BY R.R.M. DATE 3/1/66  
 CHECKED BY F.P. DATE 4/2/66  
 IN CHARGE OF J. NEWELL  
 FAB. PLANT HAMMOND  
 REFERENCE DWGS ERLEIS

<b>ALLIED</b> ENGINEERS FABRICATORS ERECTORS		<b>STRUCTURAL STEEL COMPANY</b> 1525 15TH STREET, HARBOR, MINN. 55412	
DETAILS OF <u>BOTTOM STEUT @ L11 &amp; L17</u>			
STRUCTURE <u>BRIDGE No. 9340</u>			
LOCATION <u>MINNEAPOLIS, MINN.</u>			
OWNER <u>MINN. STATE HWY DEPT.</u>			
CONTRACT	15#	FABCOD	SHEET
<u>3142</u>	<u>17</u>	<u>264</u>	<u>1510AB</u>

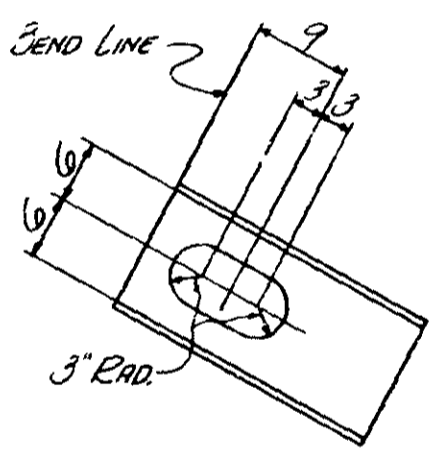
WELD (X19) AFTER ALL  
 GUSS RB'S HAVE BEEN RIVETED



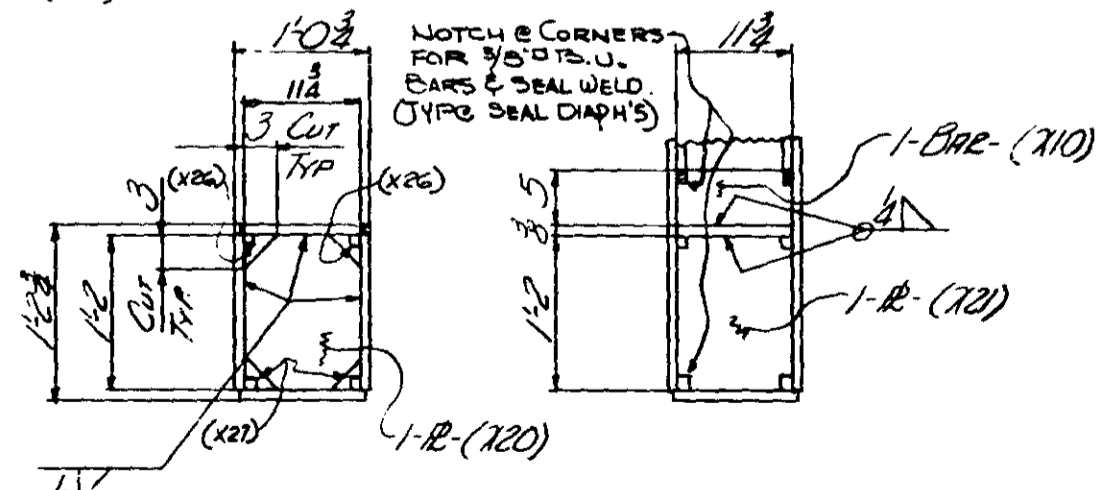
SECT A-A



SECT B-B

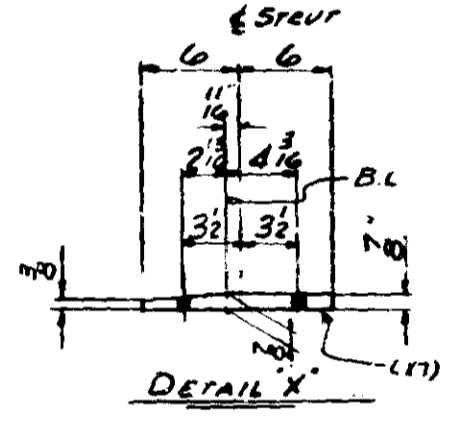


VIEW C-C



SECT D-D

SECT F-F



SHOP NOTE  
 FOR GEN. NOTES SEE SHI GNI  
 FOR MAT'L SPECS SEE BILL OF MAT'L  
 FOR INSPECTION OF WELDS - SEE  
 SH. N<sup>o</sup> GNI  
 MINN. FEEL No I-IG35W-3(58) 112  
 STATE FEEL No 2783-9340B (TH35W-394)

Div	Div	QTY	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	WGT	WGT
15	17		WE	BED			WT		NO.	WT	PC	PC
1	1	1	15100R	1	STEUT	36	70	10				
	1	2	15100B	1	STEUT							
5		2	R	12	3/8	70	24	21	3416	59	2148	3306
6		2	R	12	3/8	69	24	22	3417	59	2117	3306
7		4	R	14	1/2	62	84	73	3418	59	5968	3306
8		4	R	12	3/8	3	0	24	3419	59	219	3306
9		4	R	20	3/8	3	9	25	3416	59	673	3306
10		4	R	21	3/8	1	108	76	3503		205	
11		4	R	12	3/8	1	3	27	3504		179	
12		2	R	22	3/8	3	102	70	3423		217	
13		2	R	18	3/8	0	113	70	3424		25	
14		2	R	18	3/8	3	102	70	3421		178	
15		2	L	4	4	3	102	70	3422		74	
16		2	R	17	3/8	3	102	70	3421		175	
17		2	L	4	4	3	102	70	3422		76	
18		4	L	4	4	1	48	715	3502		53	
19		4	R	20	1/2	2	0	26	3504		210	
20		2	R	10	3/8	3	78	717	3423		172	
21		2	R	17	3/8	3	78	718	3424		97	
22		2	R	17	3/8	2	1	719	3425		37	
23		12	R	11 1/2	3/8	1	2	720	3426		210	
24		4	R	11 1/2	3/8	1	2	721	3427		70	
25		4	R	20	3/8	3	9	722	3418	59	673	3306
26		4	R	9	3/8	1	0	723	3503	59	77	3306
27		2	R	10	3/8						NC	
28		2	W	10	0						NC	
33		4	BAR	3/8	70	1	3	224		59	2	3306
34		4	BAR	3/8	70	2	2	225			4	
35		4	BAR	3/8	70	4	5	226			124	
36		4	BAR	3/8	70	7	24	227			135	
										BID ITEM	59	14065

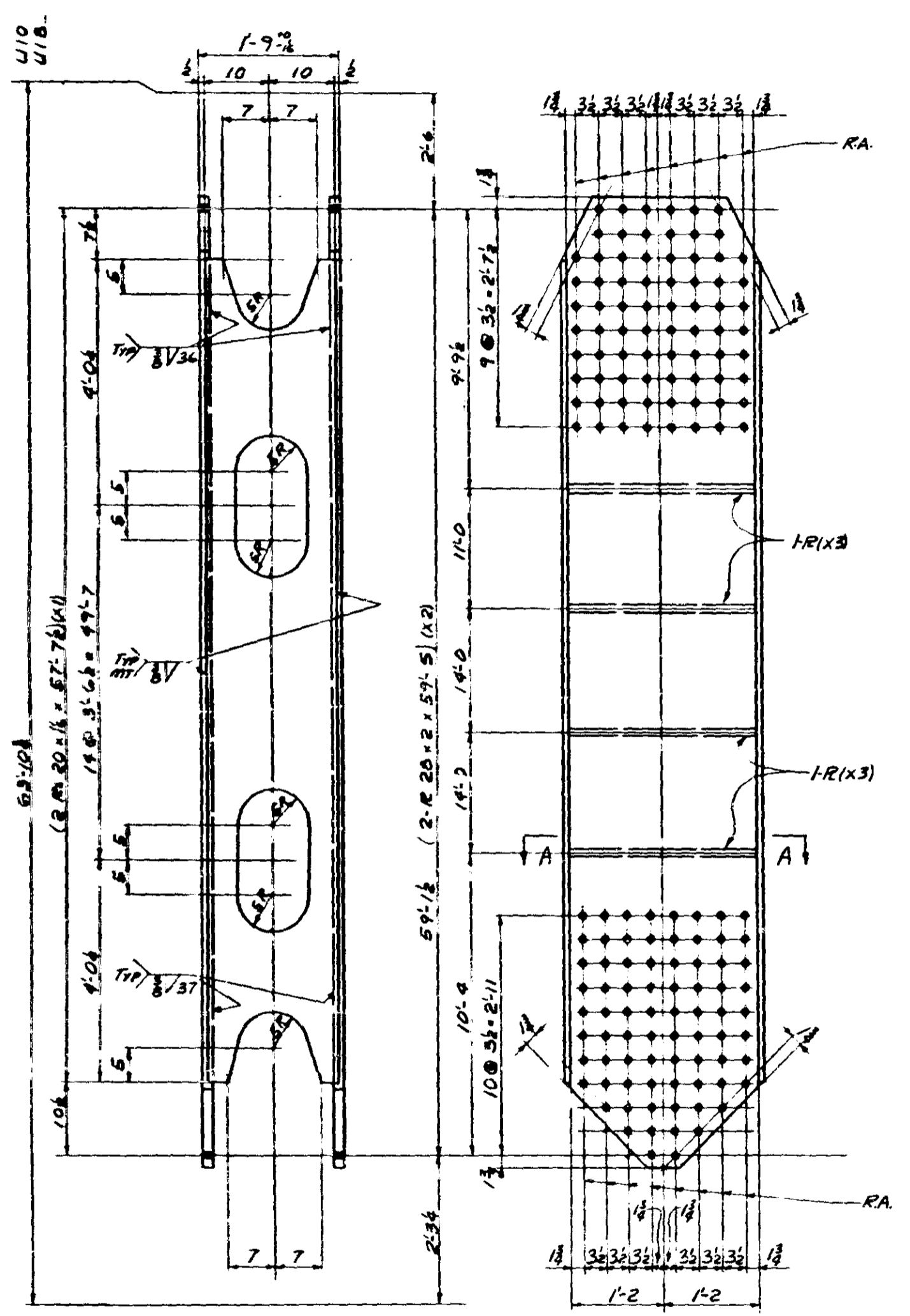
**ALLIED** STRUCTURAL STEEL COMPANY  
 FABRICATORS & ERECTORS  
 1425 16TH STREET, HARBOR, MINN. 55404

DETAILS OF BOTTOM STEUT @ L11 # L17  
 STRUCTURE BRIDGE No. 2300  
 LOCATION MINNEAPOLIS, MINN.  
 OWNER MINN. STATE HWY. DEPT.  
 CUSTOMER MINN. STATE HWY. DEPT.

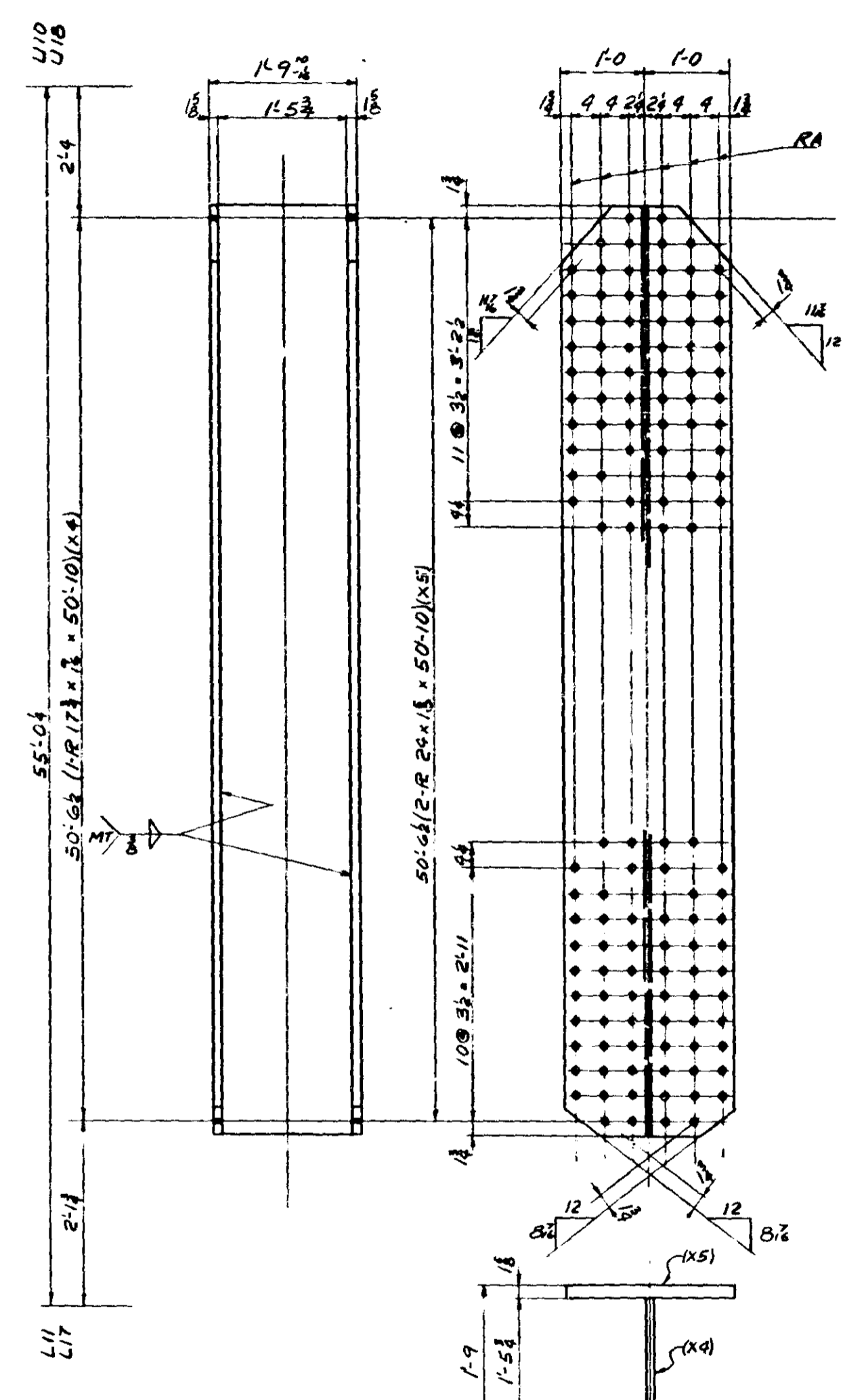
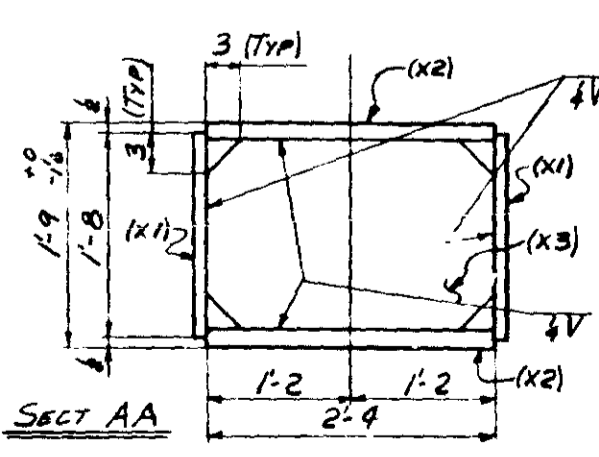
HAMMOND FR  
 OPEN HOLES 1/2" RIVETS 3/8" PAINT YES SEE SHI GNI  
 DRAWN BY R.P.M. DATE 3/7/60 CHECKED BY J.F. DATE 4/6/60

REF DWG E12/E13 REVISIONS 11-21-60

CONTRACT 3142 FABCOD 26A SHEET 15100



ONE DIAGONAL 1515 L9-U10E  
 ONE do 1515 L9-U10W  
 ONE do 1515 L9-U18E  
 ONE do 1515 L9-U18W  
 ALIKE EXCEPT FOR MARK



ONE DIAGONAL 1515 U10-L11E  
 ONE do 1515 U10-L11W  
 ONE do 1515 U18-L17E  
 ONE do 1515 U18-L17W  
 ALIKE EXCEPT FOR MARKS

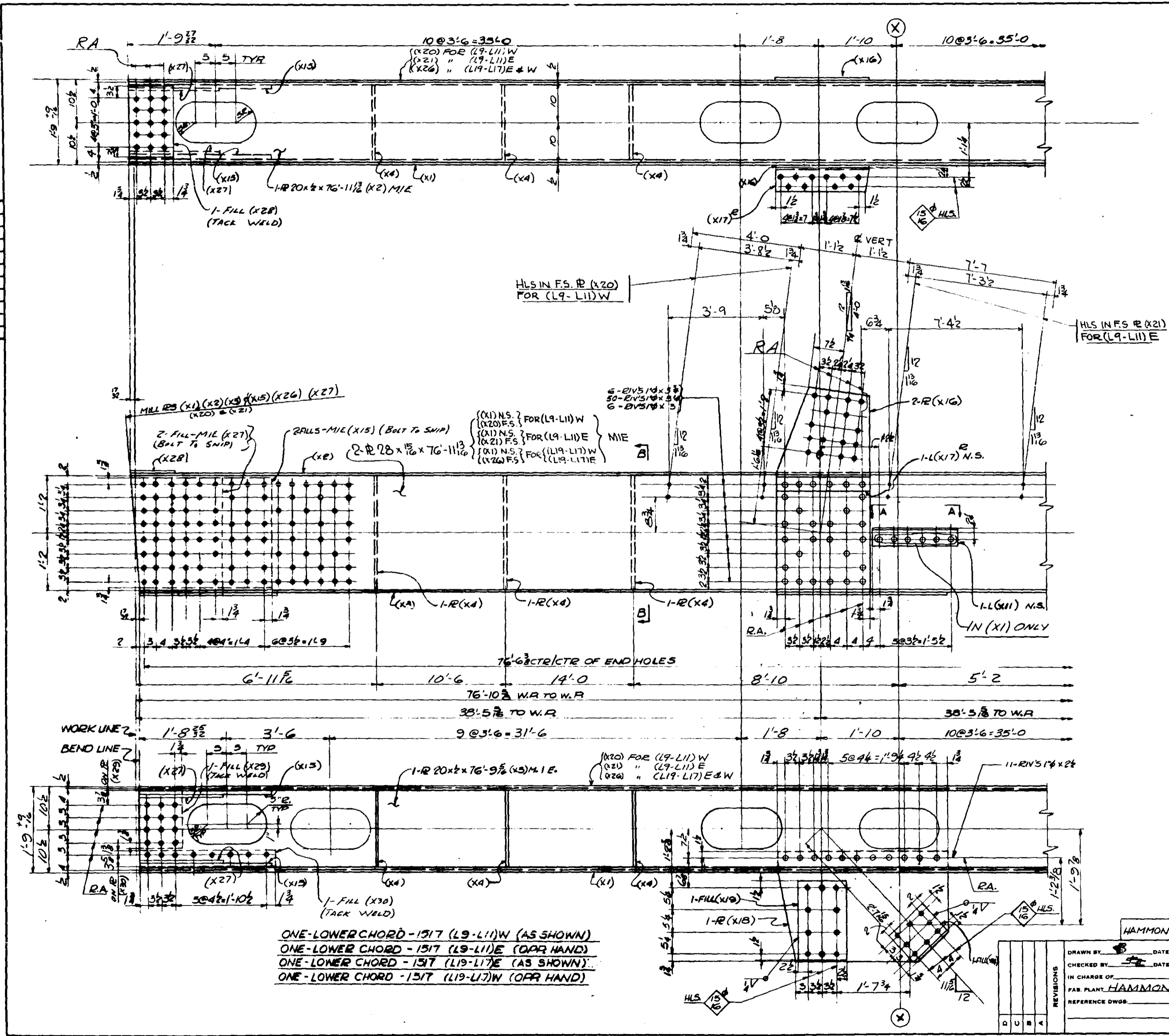
SHOP NOTE  
 FOR GEN NOTES SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION OF WELDS SEE SN GNI

HAMMOND FAB  
 MINN. PROJ. NO. I-G 35W 3158112  
 STATE PROJ. NO. 2783-93408 (TR 55W-398)  
 OPEN HOLES 1/8 RIVETS & BOLTS PAINT YES SEE SNT GNI  
 DRAWN BY MP DATE 3-8-66 CHECKED BY FR DATE 3/11/66

Div	Item	SHIP WK	NO REQ	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT
1517	1								
	2								
1	3	ONE		DIAGONAL	1515 L9-U10E		(28 x 59-6)		
1	4	ONE		do	1515 L9-U10W				
1	5	ONE		do	1515 L9-U18E				
1	6	ONE		do	1515 L9-U18W				
	7								
	8	8	R	20 x 1/2	57 7/8	X1		2020	61 21552 2810
	9	8	R	28 x 2	59 5/8	X2		2019	60 98303 3309
	10	16	R	17 x 1/2	29	X3		2021	59 809 2806
	11								
	12	4		WLD	22	0			NC
	13	4		WLD	28	10			NC
	14								
	15								
1	16	ONE		DIAGONAL	1515 U10-L11E		(29 x 50-10)		
1	17	ONE		do	1515 U10-L11W				
1	18	ONE		do	1515 U18-L17E				
1	19	ONE		do	1515 U18-L17W				
	20								
	21	4	R	17 1/2 x 1/2	50 10	X4		2020	61 4923 1310
	22	8	R	24 x 1/2	50 10	X5		2020	60 52924 3309
	23								
	24	4		WLD	20	9			NC
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	26								
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**ALLIED** STRUCTURAL STEEL COMPANY  
 1100 WEST STREET STAMPAED MINNAPOLIS MINN  
 DETAILS OF TRUSS DIAGONAL  
 STRUCTURE BRIDGE NO 9390  
 LOCATION MINNEAPOLIS MINNESOTA  
 OWNER MINN STATE HWY DEPT.  
 CUSTOMER MINN STATE HWY DEPT.  
 CONTRACT 3142 FABCOD 214 235 SHEET 1515

X	0	1	2	3
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8				
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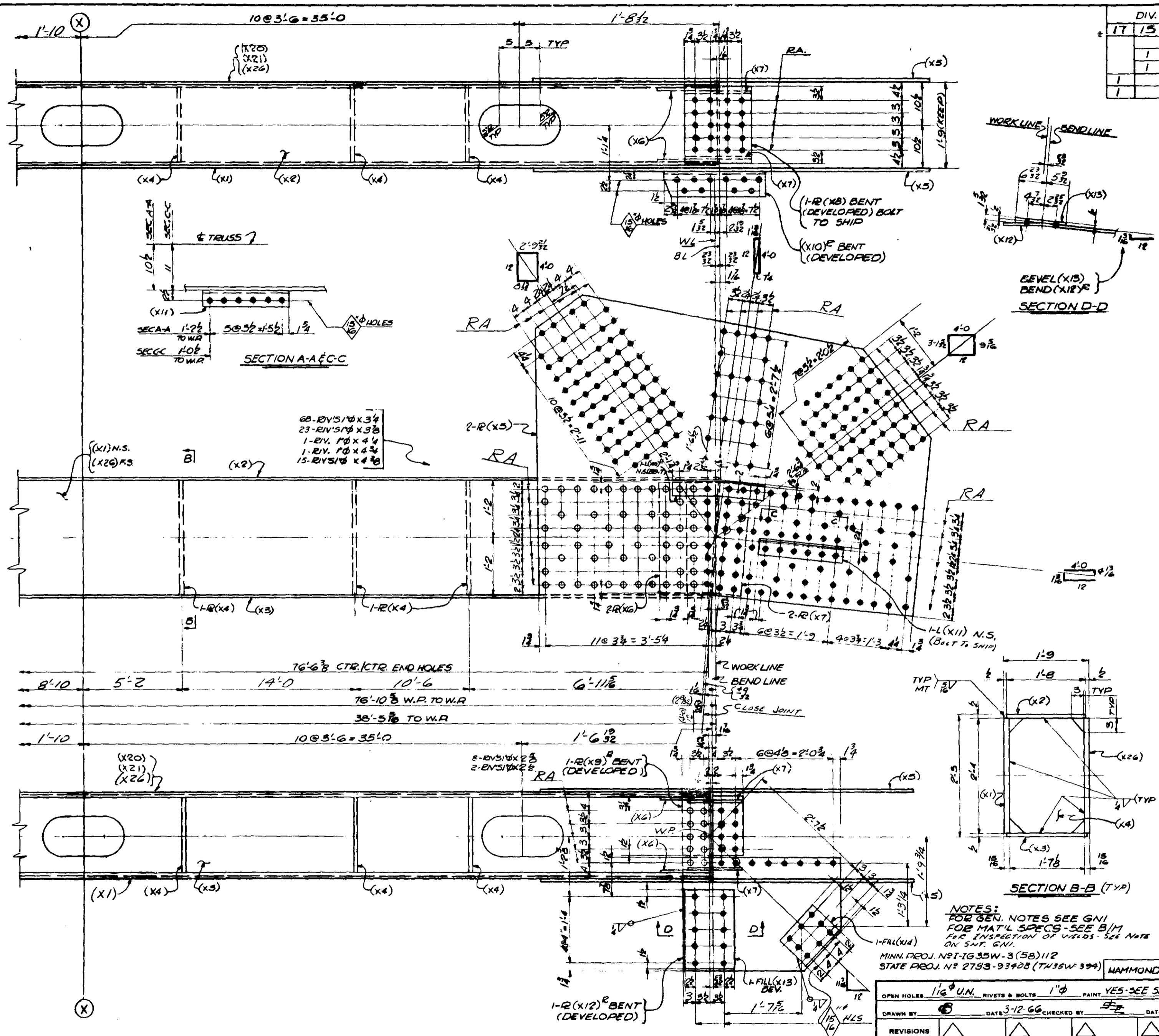


MICRO-FILMED  
 MINN. PROJ. NR I-IG 35W-3(50)112  
 STATE PROJ. NR 2785-93408 (7435W-394)

<b>ALLIED</b> ENGINEERS FABRICATORS STRUCTORS	<b>STRUCTURAL STEEL COMPANY</b> <small>1425 - 15TH STREET, MINNEAPOLIS, MINN. 55404</small>	
	DETAILS OF LOWER CHORD (L9-L11)E (L19-L17)	
STRUCTURE BRIDGE NO. 9310		
LOCATION MINNEAPOLIS, MINNESOTA		
OWNER MINNESOTA STATE HWY DEPT.		
OWNER MINNESOTA STATE HWY DEPT.		
CONTRACT 3142	DIV.	FABCOO 215 SHEET 157AB

DRAWN BY CHECKED BY IN CHARGE OF FAB. PLANT REFERENCE DWG.	DATE 3-12-66 DATE 4/4/66 HAMMOND HAMMOND
--	---

REVISIONS Q U R K
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DIV.	NO.	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
17	15						
1	3	ONE LOWER CHORD	157 (L9-L11) W-AS SHOWN				
1	4	ONE LOWER CHORD	157 (L9-L11) E-CAR HAND				
1	5	ONE LOWER CHORD	157 (L13-L17) E-AS SHOWN				
1	6	ONE LOWER CHORD	157 (L13-L17) W-OPR HAND				
	7	4 R 28 x 1 1/2	76 1/2 x 1	M.I.E.	59	27483	3306
	8	4 R 20 x 2	76 1/2 x 2	M.I.E.	59	10470	3306
	9	4 R 20 x 2	76 9/2 x 2	M.I.E.	59	10442	3306
	10	24 R 19 1/2 x 3/8	2 1/4 x 4		59	1365	3306
	11	8 R 7 1/2 x 2	8 5 x 3		61	8470	3306
	12	8 R 15 1/2 x 3/8	2 3/4 x 6		59	471	3306
	13	8 R 16 1/2 x 2	2 1/4 x 7	U.M.	61	524	3306
	14	4 R 19 x 3/8	1 2 x 9	U.M. BENT	61	113	3306
	15	4 R 14 1/2 x 3/8	1 2 1/2 x 9	U.M. BENT	61	117	3306
	16	4 L 6 x 4 x 3/8	1 1/2 x 10	BENT	59	96	3306
	17	8 L 4 x 4 x 3/8	1 8 x 11		59	137	3306
	18	4 R 27 1/2 x 3/8	3 1/4 x 12	BENT	59	449	3306
	19	4 REV. FULL PLY	1 7 x 3		59	27	3306
	20	8 FILL 9 x 3	1 0 x 8		59	121	3306
	21	8 FILL 27 1/2 x 1/2	2 10 x 15	MINN. PROJ. NSI-16.55W-3(58)112	59	178	3306
	22	8 R 22 1/2 x 3/8	4 1/4 x 6		59	1256	3306
	23	4 L 6 x 4 x 3/8	1 10 1/2 x 1 1/2		59	92	3306
	24	4 R 25 1/2 x 3/8	3 3/4 x 10		59	447	3306
	25	4 FILL 12 x 6	1 6 x 10		59	128	3306
	26						
	27	4 3/8 WLD	307 6				N.C.
	28	4 1/4 WLD	100 9				N.C.
	29						
	30	764 1" RIV.					N.C.
	31						
	32	2 R 28 x 1 1/2	76 1/2 x 1	M.I.E. FOR	59	13742	3306
	33	8 R 27 1/2 x 3/8	1 10 1/2 x 12	M.I.E.	59	1040	3306
	34	1 R 28 x 1 1/2	76 1/2 x 1	M.I.E. FOR	59	4871	3306
	35	1 R 28 x 1 1/2	76 1/2 x 1	M.I.E. FOR	59	4871	3306
	36	4 FILL 12 x 6	2 10 x 15		59	128	3306
	37	4 FILL 14 1/2 x 8	2 10 1/2 x 8		59	21	3306
	38	4 FILL 5 x 8	2 8 1/2 x 10		59	23	3306
	39						
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	55	BID ITEM	59		83648		
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	57	BID ITEM	61		9224		
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**ALLIED** ENGINEERS FABRICATORS ERECTORS

STRUCTURAL STEEL COMPANY

1410 15TH STREET, HARBOR, INDIANA 46340

DETAILS OF LOWER CHORD (L9-L11) & (L13-L17)

STRUCTURE: BRIDGE NO. 9340

LOCATION: MINNEAPOLIS, MINNESOTA

OWNER: MINNESOTA STATE HWY DEPT.

CUSTOMER: MINNESOTA STATE HWY DEPT.

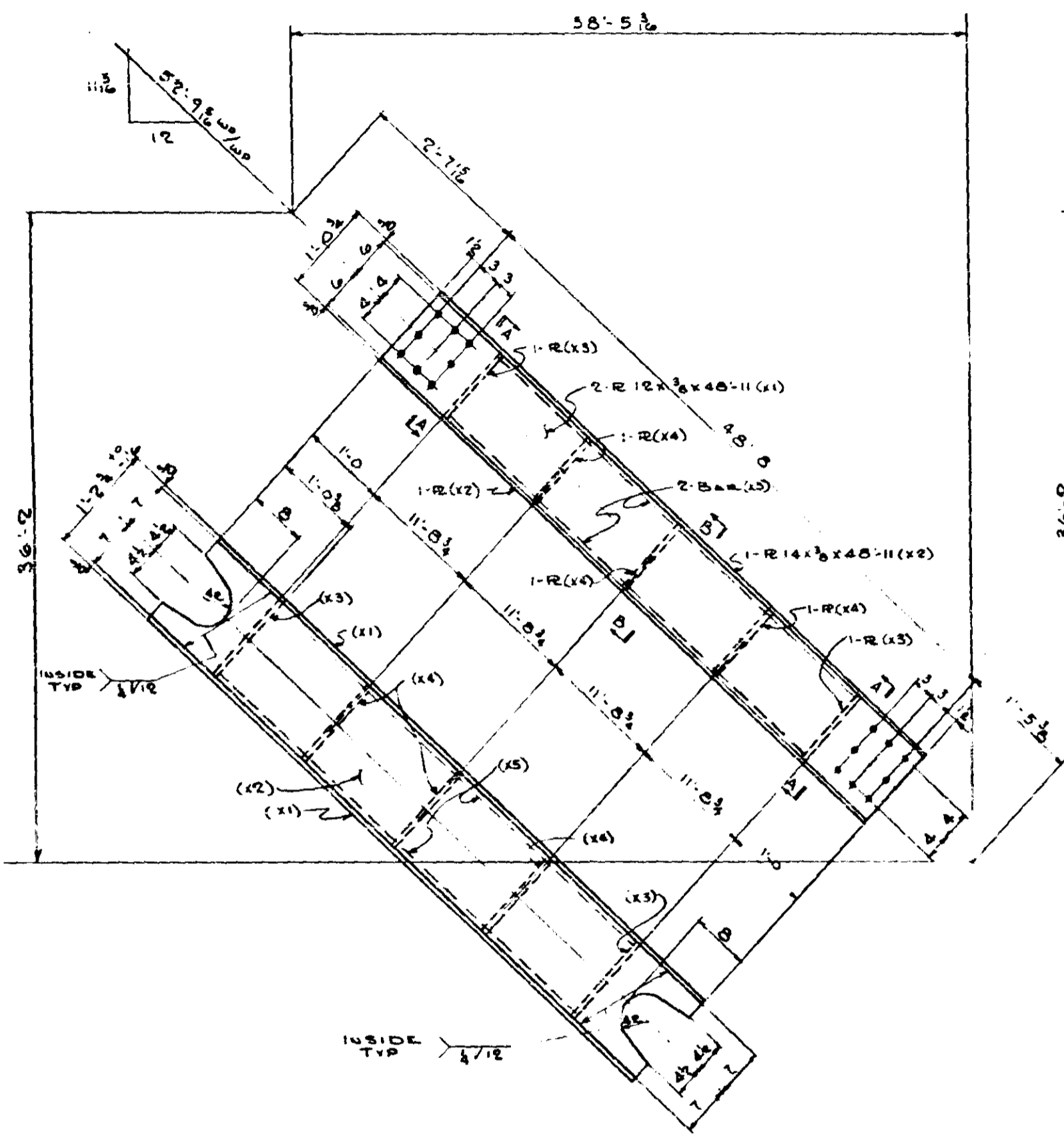
CONTRACT 3142 FABCOD 215 SHEET 1517 B

MINN. PROJ. NSI-16.55W-3(58)112  
STATE PROJ. NO. 2793-93428 (7435W 394) HAMMOND FAB.

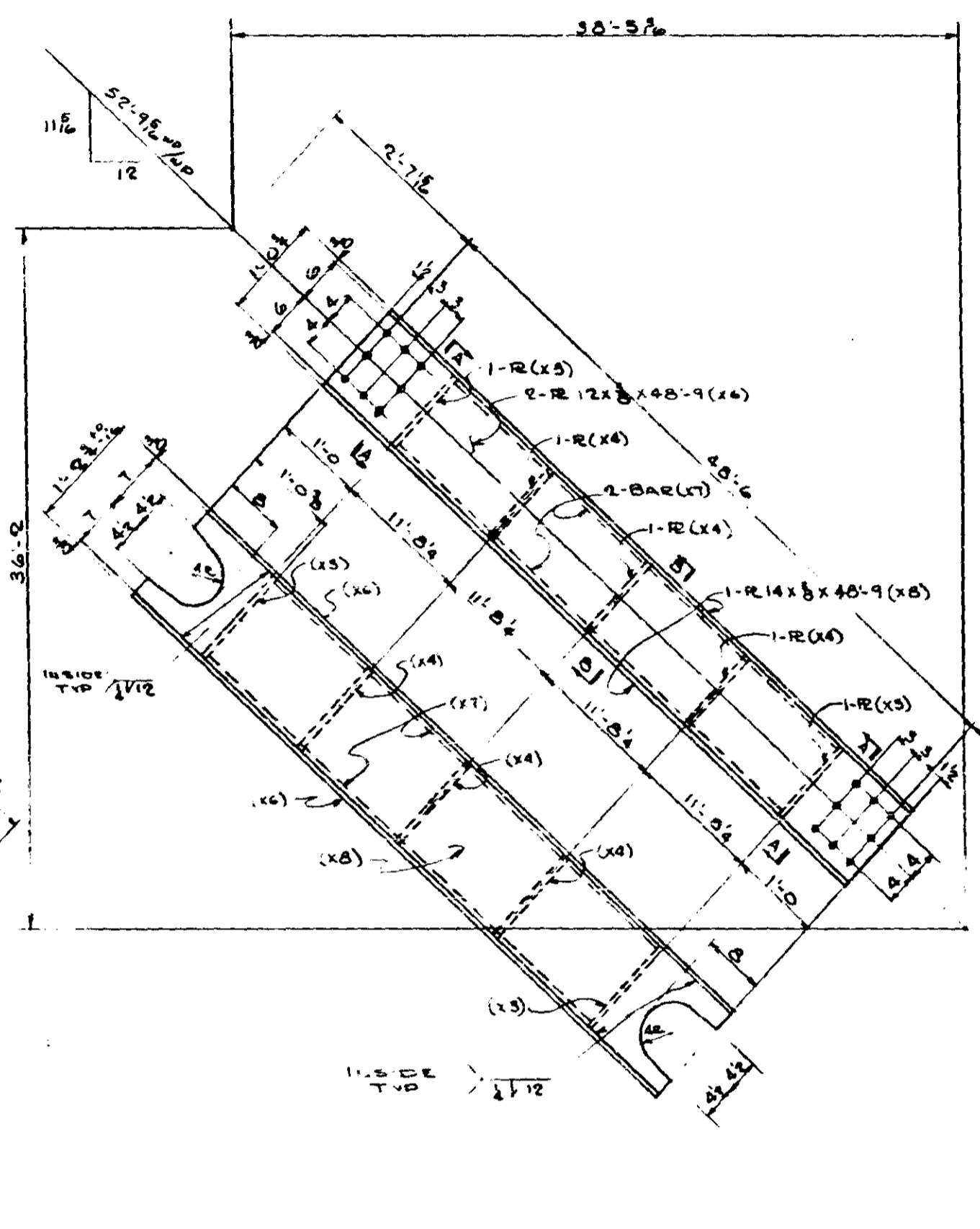
OPEN HOLES: 1/16" U.N. RIVETS & BOLTS: 1" φ PAINT: YES-SEE SHG/NI

DRAWN BY: DATE: 3-12-66 CHECKED BY: DATE: 4/8/66

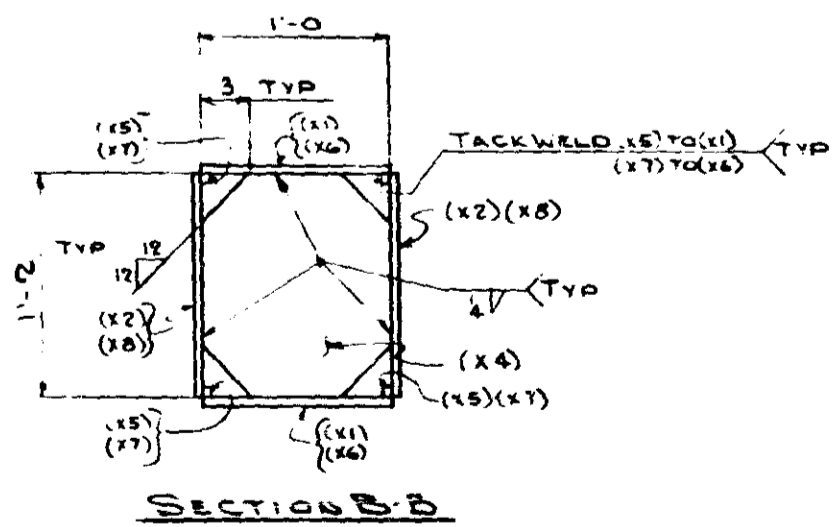
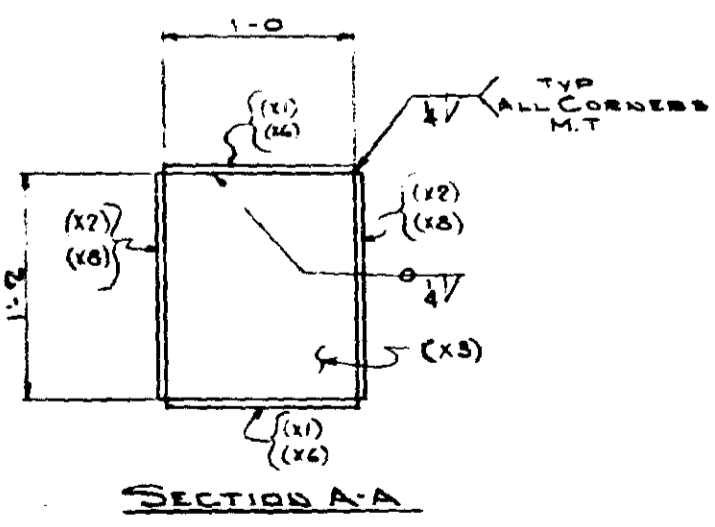
REVISIONS:



4-BOTTOM CHORD DIAGONALS 1526A



4-BOTTOM CHORD DIAGONALS 1526B



SHOP NOTE:  
FOR GEN NOTES SEE GNI  
FOR MATL SPECS SEE BILL OF MATL  
FOR INSPECTION OF WELDS  
SEE SHI. GNI.

MINN. PROJ. NO. IG35W-3(58)112  
STATE PROJ. NO. 2783-9340B (7H35W-394)

HAMMOND FAB.

OPEN HOLES	5"	RIVETS & BOLTS	PAINT	YES	SEE SHI. GNI
DRAWN BY	MMW	DATE	3-7-66	CHECKED BY	FE
REVISIONS	△	△	△	△	

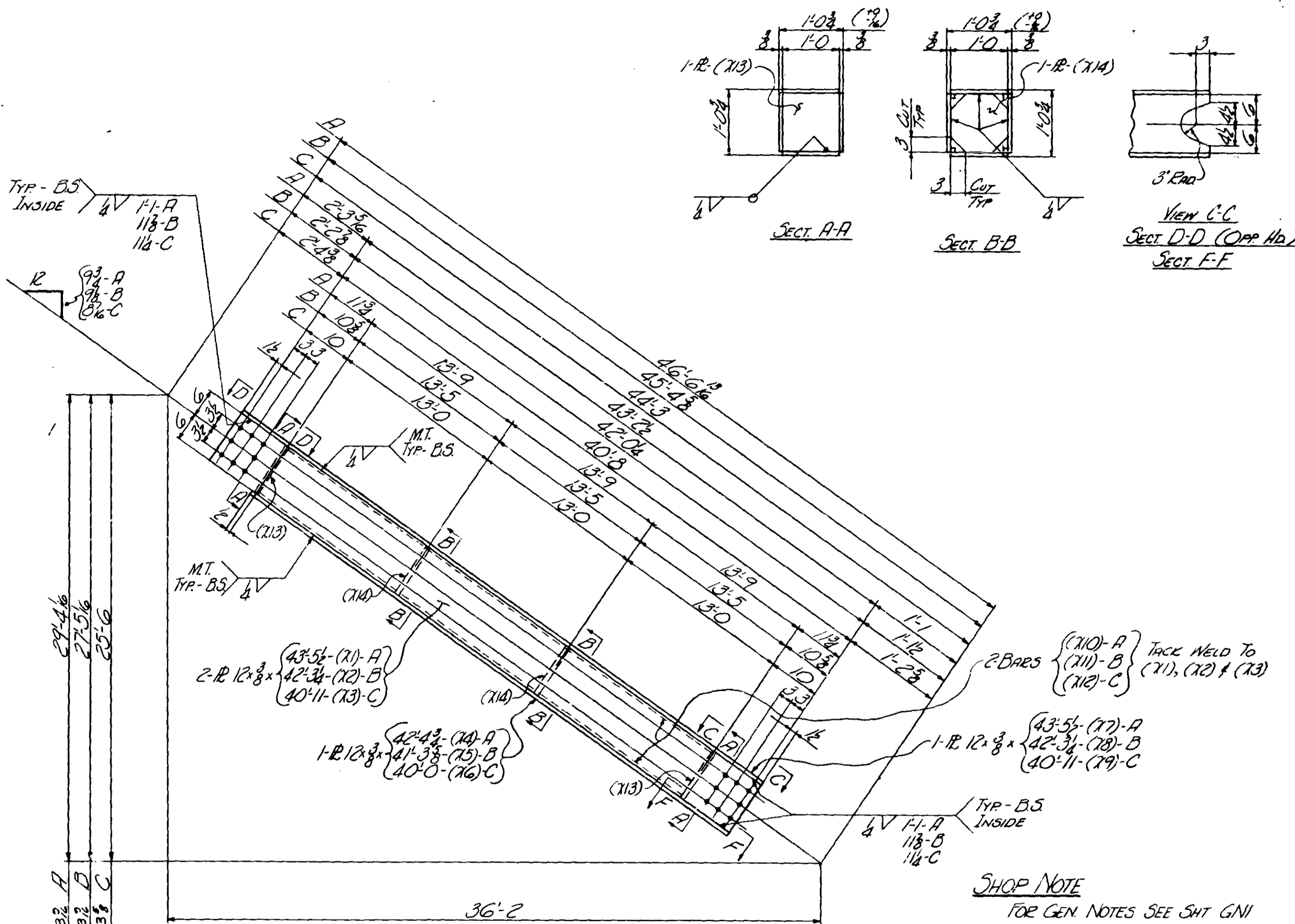
DIV	ITEM	SHIP NO.	NO. REQD.	SHAPE	LENGTH	NO. REQD.	REMARKS	ITEM NO.	TOTAL WEIGHT
15	17	1							
2	2	3	4	BOTTOM CHORD DIAGONALS					
	4			8 R 12x8	48 11	X1		59	5987
	5			8 R 14x8	48 11	X2		59	6985
	6			8 R 12x8	1 2	X3		59	183
	7			12 R 12x8	1 2	X4		59	214
	8			16 BAR 3x8	46 10 1/2	X5		59	3506
	9			4 F.W. 4	28 0				NC
	10								
	11								
	12								
	13								
2	2	14	4	BOTTOM CHORD DIAGONALS					
	15			8 R 12x8	48 9	X6		59	5927
	16			16 BAR 3x8	46 8 1/2	X7		59	3597
	17			8 R 14x8	48 9	X8		59	6962
	18			8 R		X3		59	183
	19			12 R		X4		59	214
	20			4 F.W. 4	27 6				NC
	21								
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BID ITEM 59 = 27384

**ALLIED MICRO-FILMED**  
STRUCTURAL STEEL COMPANY  
1222 12TH STREET, HARBOR, MINN. 55404

DETAILS OF: **BOTTOM CHORD LATERAL DIAGONAL**  
STRUCTURE: **BRIDGE 1526A**  
LOCATION: **MINNEAPOLIS, MINNESOTA**  
OWNER: **MINNESOTA STATE HWY DEPT.**  
CUSTOMER: **MINNESOTA STATE HWY DEPT.**

CONTRACT: **3142** FABCO: **264** BENT: **1526**



- 4- BRACING-1603A (L11 & L17)
- 4- BRACING-1603B (L12 & L16)
- 6- BRACING-1603C (L13-L14-L15)

**SHOP NOTE**  
 FOR GEN. NOTES SEE SHIT GNI  
 FOR MAT'L SPECS SEE BILL OF MAT'L

MINN PROJ. NO. I-IG-35W-3(58)112  
 STATE PROJ. NO. 2783-9340B (TH35W-39A)

ITEM NO.	QTY	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	QTY	SHAPE	LENGTH	PC. NO.	REMARKS	TOTAL WEIGHT	TOTAL WEIGHT
1	4	BRACING				1	4	BRACING					
2						2							
3						3							
4	8	R 12x8	43.52	71		4	8	R 12x8	43.52	71		5319	3306
5	4	R 12x8	42.63	72		5	4	R 12x8	42.63	72		2595	
6	4	R 12x8	43.52	77		6	4	R 12x8	43.52	77		2660	
7	16	BRAC 3x3	41.25	70		7	16	BRAC 3x3	41.25	70		316	
8	8	R 12x8	1.0	713		8	8	R 12x8	1.0	713		122	
9	8	R 12x8	1.0	714		9	8	R 12x8	1.0	714		122	3306
10						10							
11	4	4 W60	109.2			11	4	4 W60	109.2			NC	
12						12							
13						13							
14						14							
15	4	BRACING				15	4	BRACING					
16						16							
17	8	R 12x8	42.36	72		17	8	R 12x8	42.36	72		5174	3306
18	4	R 12x8	41.33	75		18	4	R 12x8	41.33	75		2520	
19	4	R 12x8	42.36	78		19	4	R 12x8	42.36	78		2587	
20	16	BRAC 3x3	40.25	711		20	16	BRAC 3x3	40.25	711		309	
21	8					21	8					122	
22	8					22	8					122	3306
23						23							
24	4	4 W60	109.1			24	4	4 W60	109.1			NC	
25						25							
26						26							
27	6	BRACING				27	6	BRACING					
28						28							
29	12	R 12x8	40.11	73		29	12	R 12x8	40.11	73		7512	3306
30	6	R 12x8	40.0	76		30	6	R 12x8	40.0	76		3072	
31	6	R 12x8	40.11	79		31	6	R 12x8	40.11	79		3756	
32	24	BRAC 3x3	38.115	702		32	24	BRAC 3x3	38.115	702		499	
33	12					33	12					189	
34	12					34	12					189	3306
35						35							
36	6	4 W60	178.6			36	6	4 W60	178.6			NC	
37						37							
38						38							
39						39							
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71						71							

**ALLIED** ENGINEERS ARCHITECTS FABRICATORS & RECTORS  
 1001 10TH STREET, HAMMOND, INDIANA 46320

DETAILS OF SWAY BRACING  
 STRUCTURE BRIDGE NO. 9340  
 LOCATION MINNEAPOLIS, MINN.  
 OWNER MINN. STATE HWY DEPT.  
 CUSTOMER MINN. STATE HWY DEPT.

CONTRACT 3142 FABCOD 264 SHEET 1603

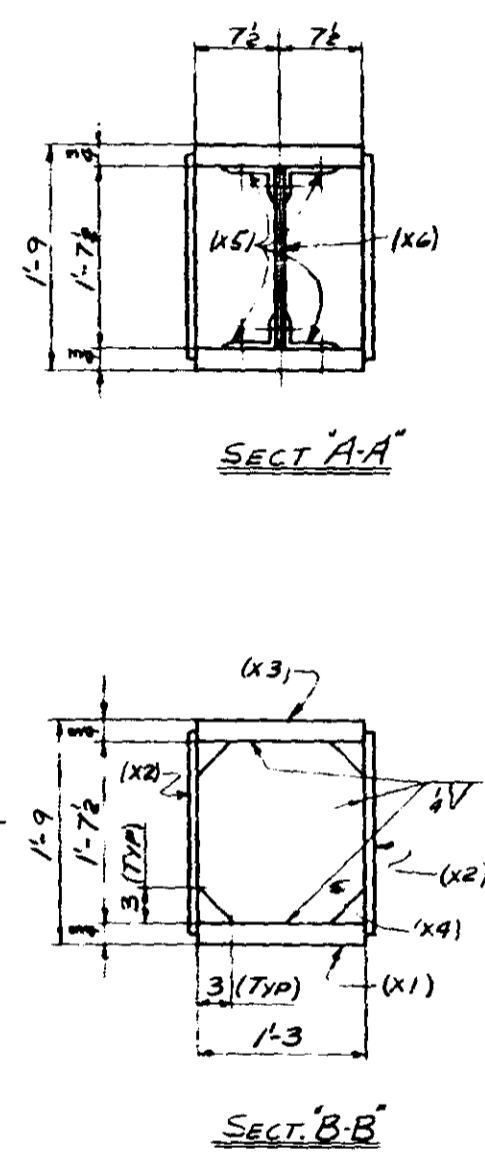
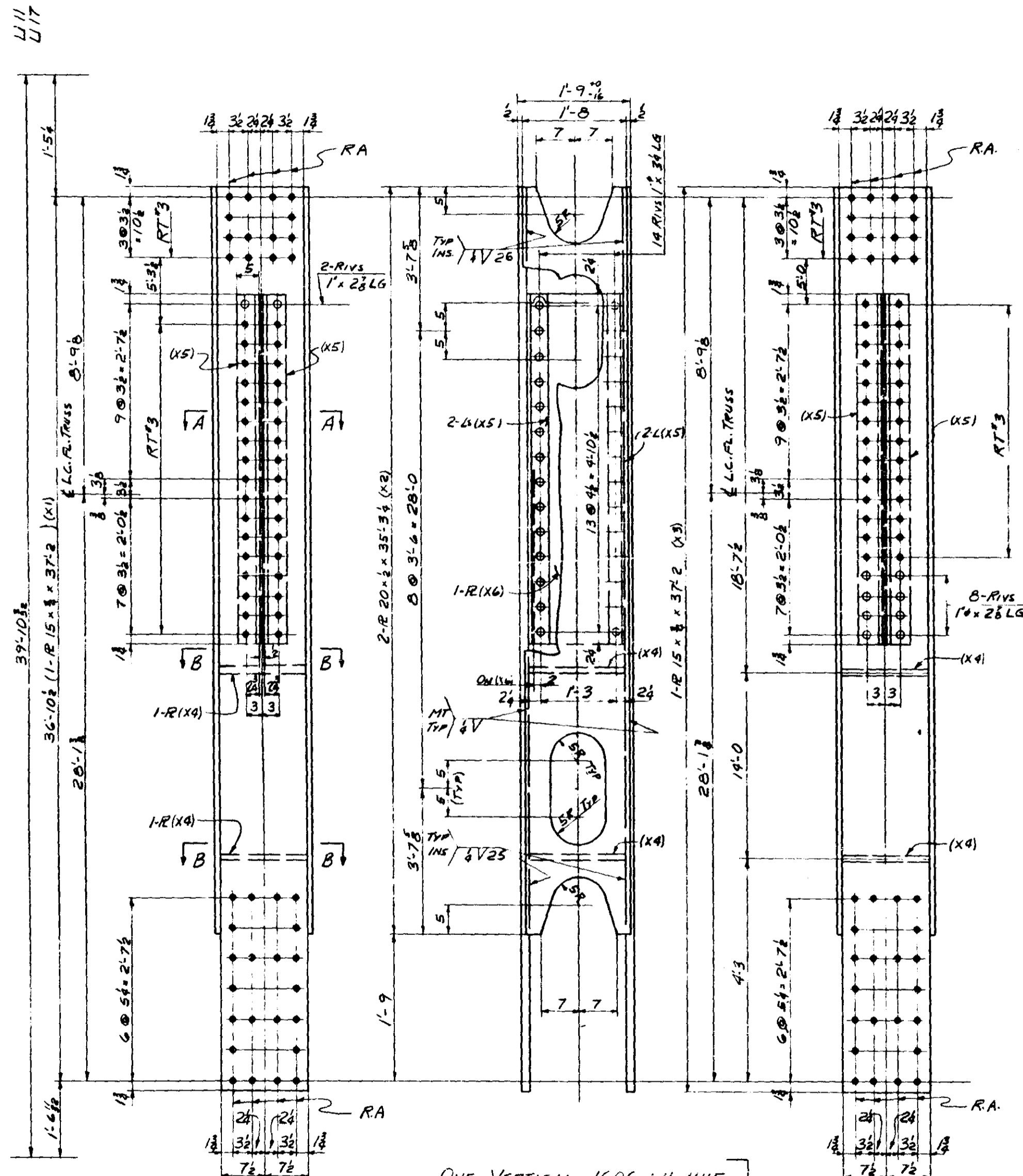
HAMMOND FAB

OPEN HOLES 1/8" RIVETS & BOLTS - PAINT YES, SEE SHIT GNI

DRAWN BY B.S.M. DATE 9/5/66 CHECKED BY H.M.H. DATE 4/30/66

REVISIONS





SHOP RIVETS	
40	1" RIV x 2 1/2"
112	1" RIV x 3 1/2"

SHOP NOTE  
 FOR GEN NOTES SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION OF WELDS SEE  
 NOTE ON SNT GNI

ONE VERTICAL 1606 L11-U11E  
 ONE do 1606 L11-U11W } ALIKE EXCEPT  
 ONE do 1606 L17-U17E } FOR MARKS  
 ONE do 1606 L17-U17H

DIV	NO	SHIP MK	NO	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT	MHD
1618	1									
	2									
	3									
1	4	ONE		VERTICAL	1606 L11-U11E			(21 x 37'-0)		
1	5	ONE		do	1606 L11-U11W					
1	6	ONE		do	1606 L17-U17E					
1	7	ONE		do	1606 L17-U17H					
	8									
	9	4	R 15 x 3/8		37.2	X1		3602	61	3686
	10	8	R 20 x 1/2		35.34	X2		3603	61	4594
	11	4	R 15 x 3/8		37.2	X3		3604	61	5686
	12	8	R 15 x 3/8		1.72	X4		3604	59	249
	13	16	L 5 x 3 1/2 x 2		5.3	X5		3605	59	1142
	14	4	R 19 x 2		5.3	X6		3606	59	678
	15									
	16									
	17	4	WLD		163.9					NC
	18	152	1" RIV							NC
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
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**ALLIED** STRUCTURAL STEEL COMPANY  
 ENGINEERS FABRICATORS Erectors  
 1412 14TH STREET MINNEAPOLIS, MINN. 55404

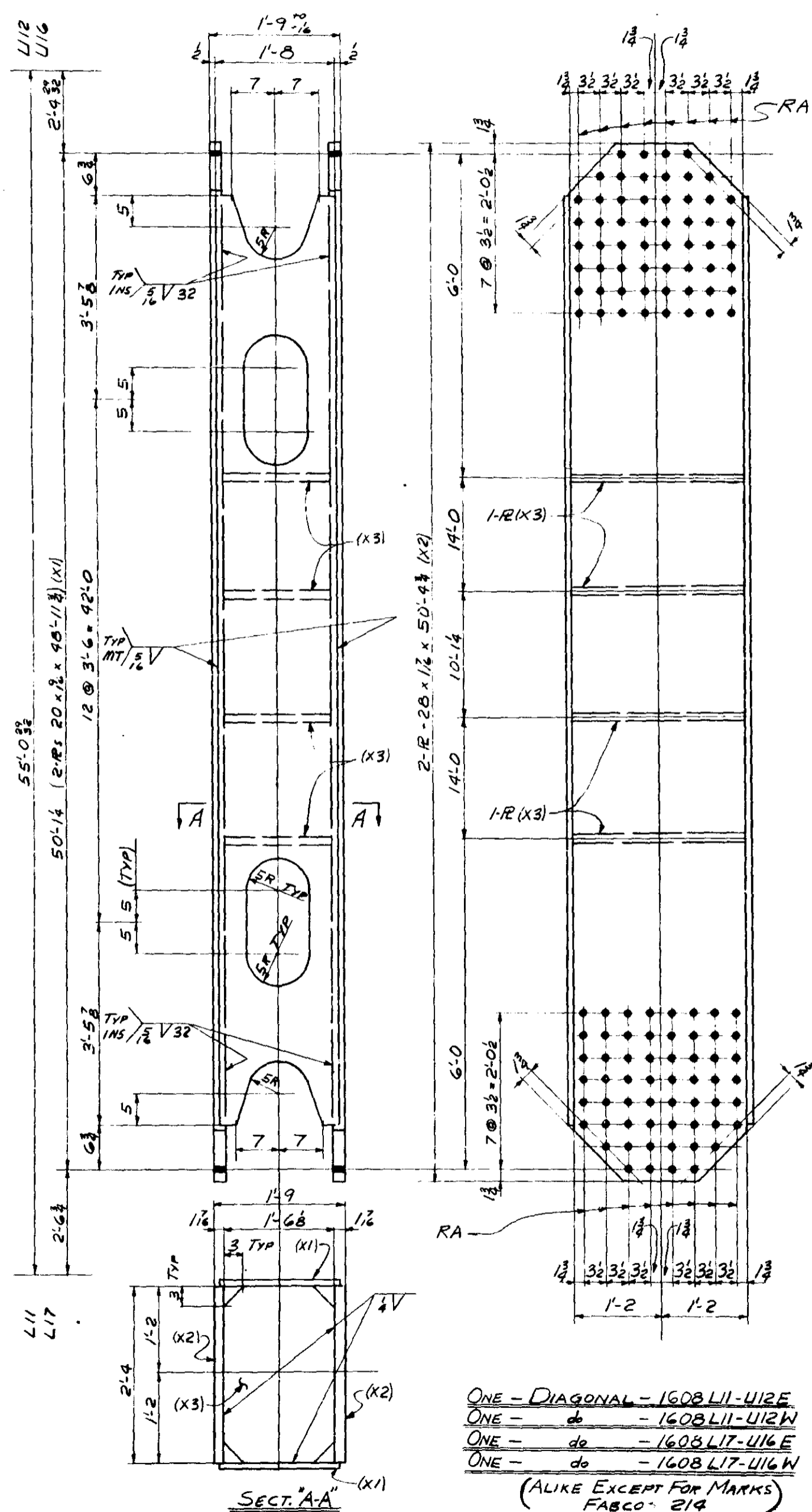
DETAILS OF: TRUSS VERTICAL  
 STRUCTURE: BRIDGE No 9340  
 LOCATION: MINNEAPOLIS MINNESOTA  
 OWNER: MINN. STATE HWY. DEPT.  
 CUSTOMER: MINN. STATE HWY. DEPT.

MINN PROJ No I-G 35W-3 (58)112  
 STATE PROJ No 2783-93908 (TH 35W-390)

OPEN HOLES 1 1/2" RIVETS 1" PAINT Yes SEE SNT GNI  
 DRAWN BY: MP DATE 3-10-66 CHECKED BY: L.O. DATE 3-30-66

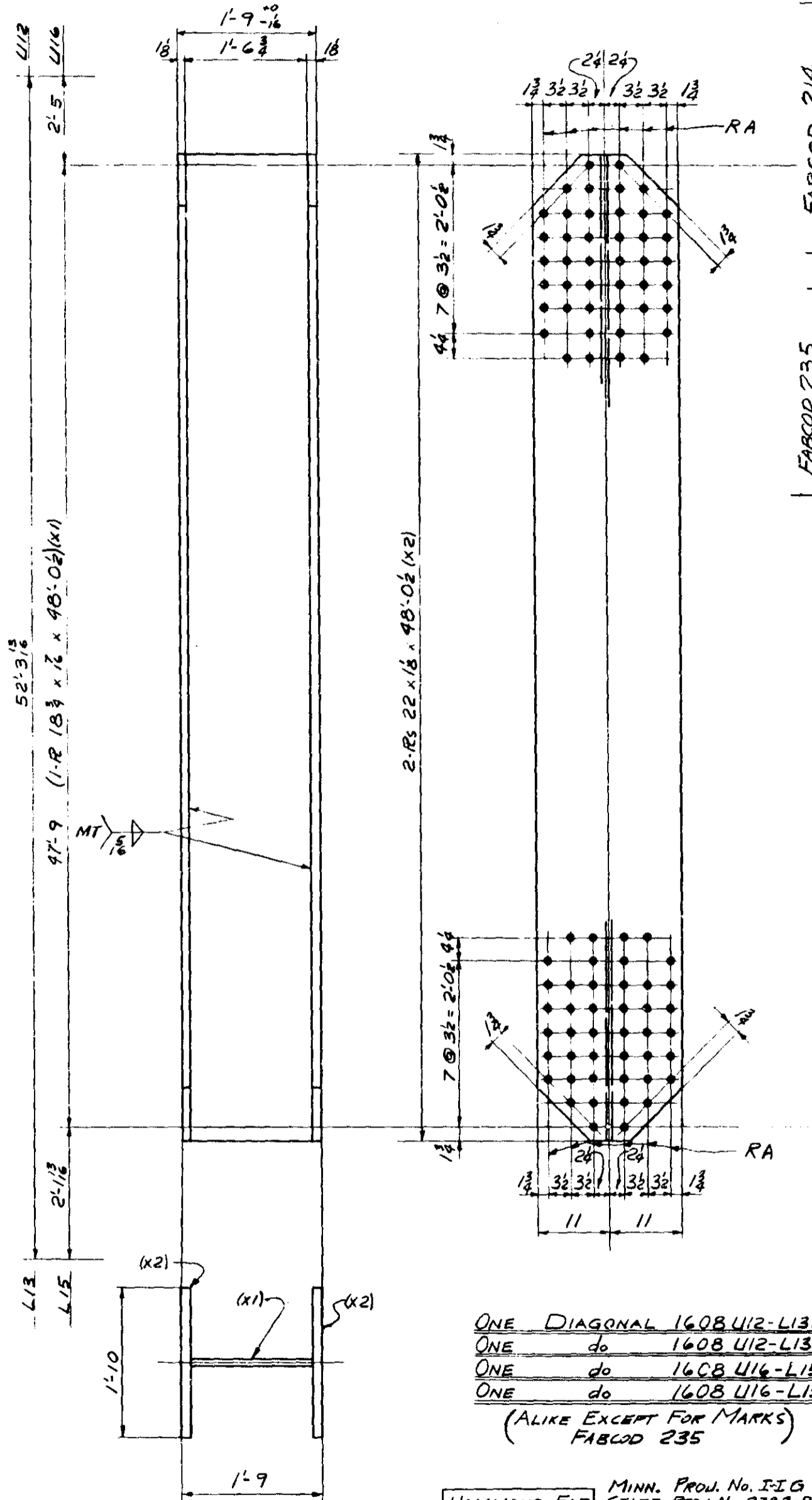
REVISIONS:

CONTRACT 3142 FABCOD 214 SHEET 1606



ONE - DIAGONAL - 1608L11-U12E  
 ONE - do - 1608L11-U12W  
 ONE - do - 1608L17-U16E  
 ONE - do - 1608L17-U16W  
 (ALIKE EXCEPT FOR MARKS)  
 FABCO 214

SHOP NOTE  
 FOR GEN NOTES SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION OF WELDS SEE NOTE ON SHT GNI



ONE DIAGONAL 1608U12-L13E  
 ONE do 1608U12-L13W  
 ONE do 1608U16-L15E  
 ONE do 1608U16-L15W  
 (ALIKE EXCEPT FOR MARKS)  
 FABCO 235

MINN. PROJ. No. I-I-G 35W-3(5B)/12  
 STATE PROJ. No. 27B3-9340B (TH 35W-394)  
 HAMMOND FAB  
 OPEN HOLES 1/6 RIVETS & BOLTS PAINT YES SEE SHT GNI  
 DRAWN BY MP DATE 3-11-66 CHECKED BY L.O. DATE 3-21-66

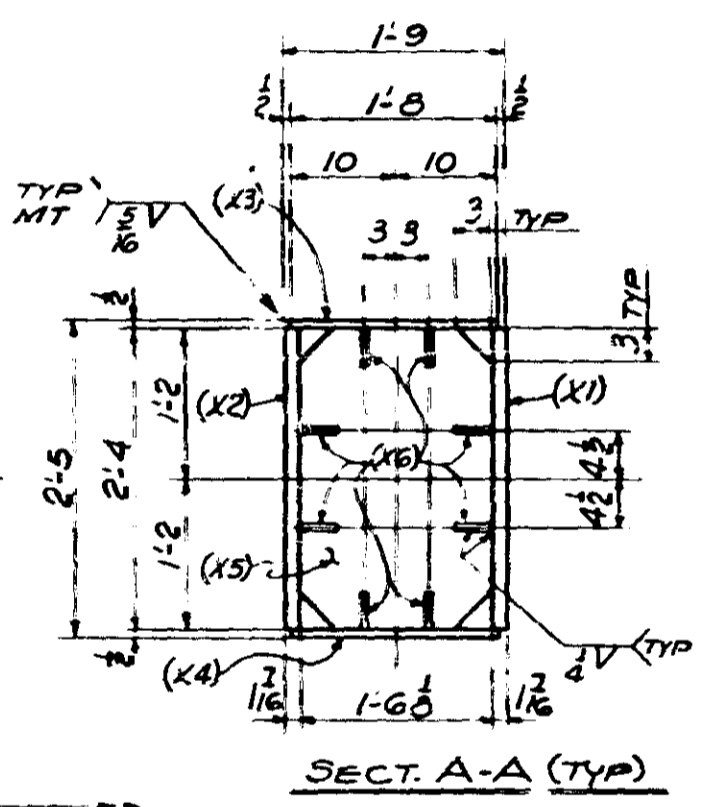
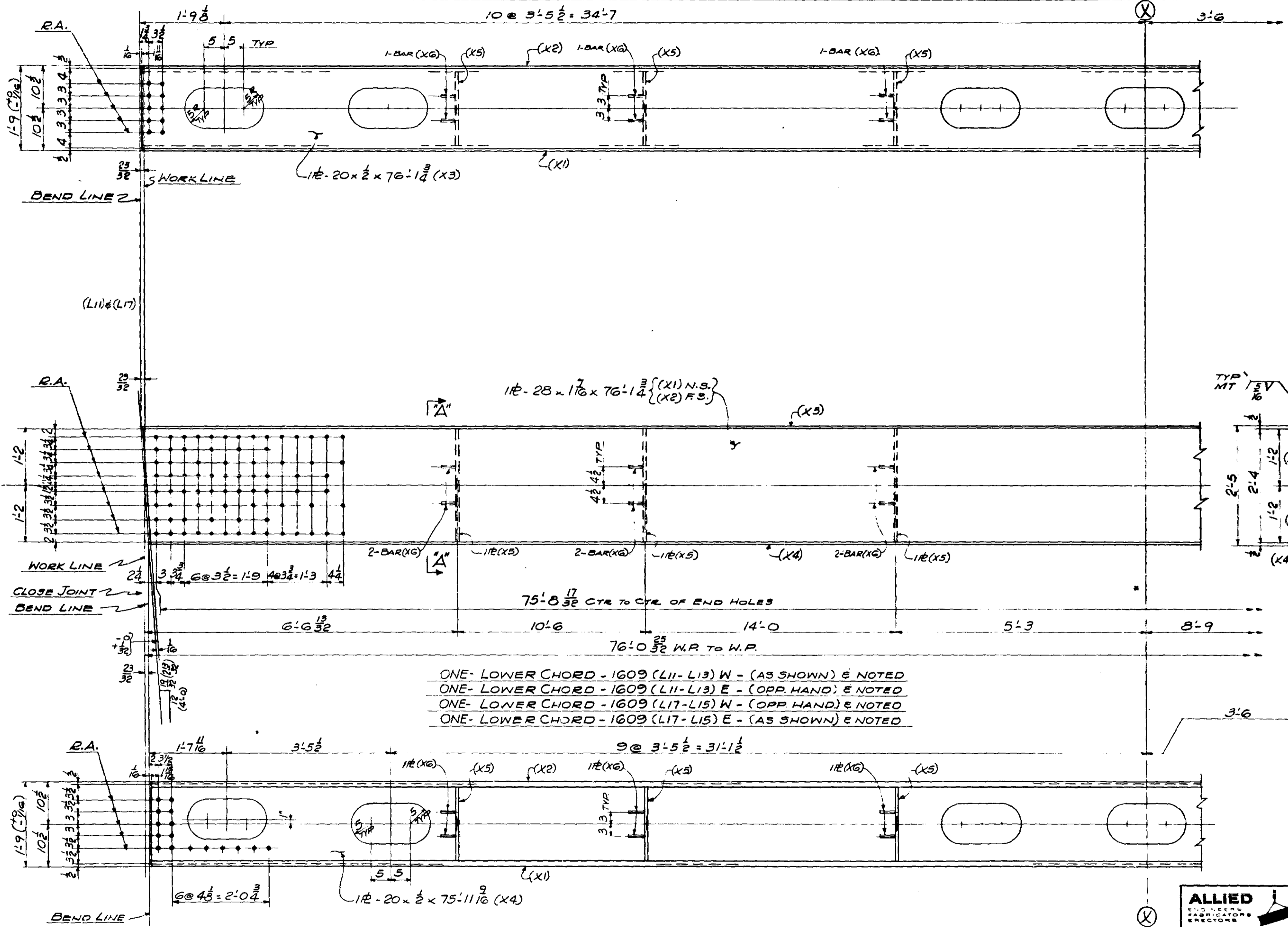
REVISIONS	△	△	△	△

DIV	LINE	SHIP NO	NO	SHAPE	LENGTH	PC	REMARKS	ITEM NO	TOTAL WEIGHT	WLD
1618	1									
	2									
	3									
1	4			ONE DIAGONAL 1608L11-U12E	(29 x 50'-5)					
1	5			ONE do 1608L11-U12W						
1	6			ONE do 1608L17-U16E						
1	7			ONE do 1608L17-U16W						
	8									
	9			8 R 20 x 16	98.118 X1			3678	61	19788 3310
	10			8 R 20 x 16	50.98 X2			3678	60	55173 3309
	11			16 R 18 3/8 x 16	2 4 X3			3678	59	803 3306
	12									
	13									
	14			4 1/2 WLD	217.3					NE
	15			4 1/2 WLD	22.9					NC
	16									
	17									
1	18			ONE DIAGONAL 1608U12-L13E	(22 x 98'-0)					
1	19			ONE do 1608U12-L13W						
1	20			ONE do 1608U16-L15E						
1	21			ONE do 1608U16-L15W						
	22									
	23									
	24			4 R 18 3/8 x 16	98.02 X1			3678	61	5340 3310
	25			8 R 22 x 16	98.02 X2			UM 5623	60	32342 3309
	26									
	27			4 1/2 WLD	193.0					NE
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47			BID ITEM 59	863					
	48									
	49				60					275.5
	50									
	51				61					20348
	52									
	53									
	54									
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	70									
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**ALLIED STRUCTURAL STEEL COMPANY**  
 FABRICATORS & ERECTORS  
 1425 10TH STREET, HAMBURG, INDIANA 46343

DETAILS OF TRUSS DIAGONALS  
 STRUCTURE BRIDGE No 9390  
 LOCATION MINNEAPOLIS MINNESOTA  
 OWNER MINN STATE HWY DEPT  
 CUSTOMER MINN STATE HWY DEPT

CONTRACT 3142  
 FABCOD 235  
 SHEET 1608



ONE- LOWER CHORD - 1609 (L11- L13) W - (AS SHOWN) & NOTED  
 ONE- LOWER CHORD - 1609 (L11- L13) E - (OPP. HAND) & NOTED  
 ONE- LOWER CHORD - 1609 (L17- L15) W - (OPP. HAND) & NOTED  
 ONE- LOWER CHORD - 1609 (L17- L15) E - (AS SHOWN) & NOTED

MINN. PROJ. NO I-1635W-3 (58) 112  
 STATE PROJ. NO 2705-9340B (TH35W-394)

REVISIONS	

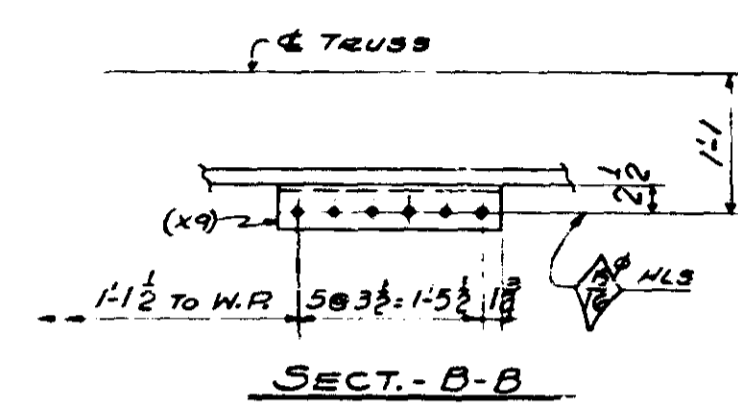
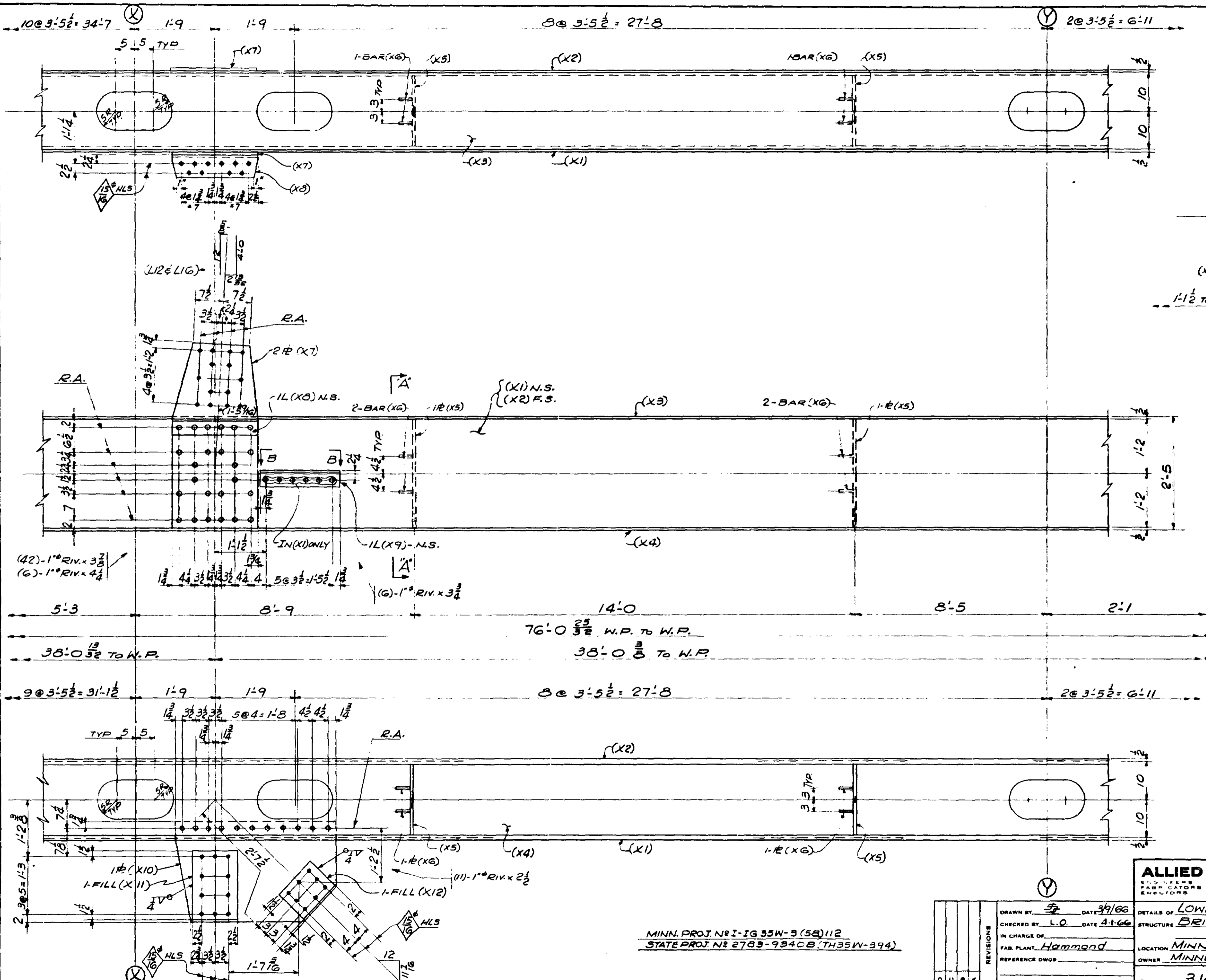
DRAWN BY: *[Signature]* DATE: 3/10/66  
 CHECKED BY: L.O. DATE: 4-1-66  
 IN CHARGE OF:  
 FAB. PLANT: Hammond  
 REFERENCE DWGS:

**ALLIED STRUCTURAL STEEL COMPANY**  
 ENGINEERS FABRICATORS ERECTORS  
 1425 LEWIS STREET, MINNEAPOLIS, MINN. 55404

DETAILS OF: LOWER CHORDS (L11-L13) & (L17-L15)  
 STRUCTURE: BRIDGE NO 9340

LOCATION: MINNEAPOLIS, MINNESOTA  
 OWNER: MINNESOTA STATE HWY DEPT

CONTRACT: 3142 DIV. 18 FAB. NO. 215 SHEET: 1609AC



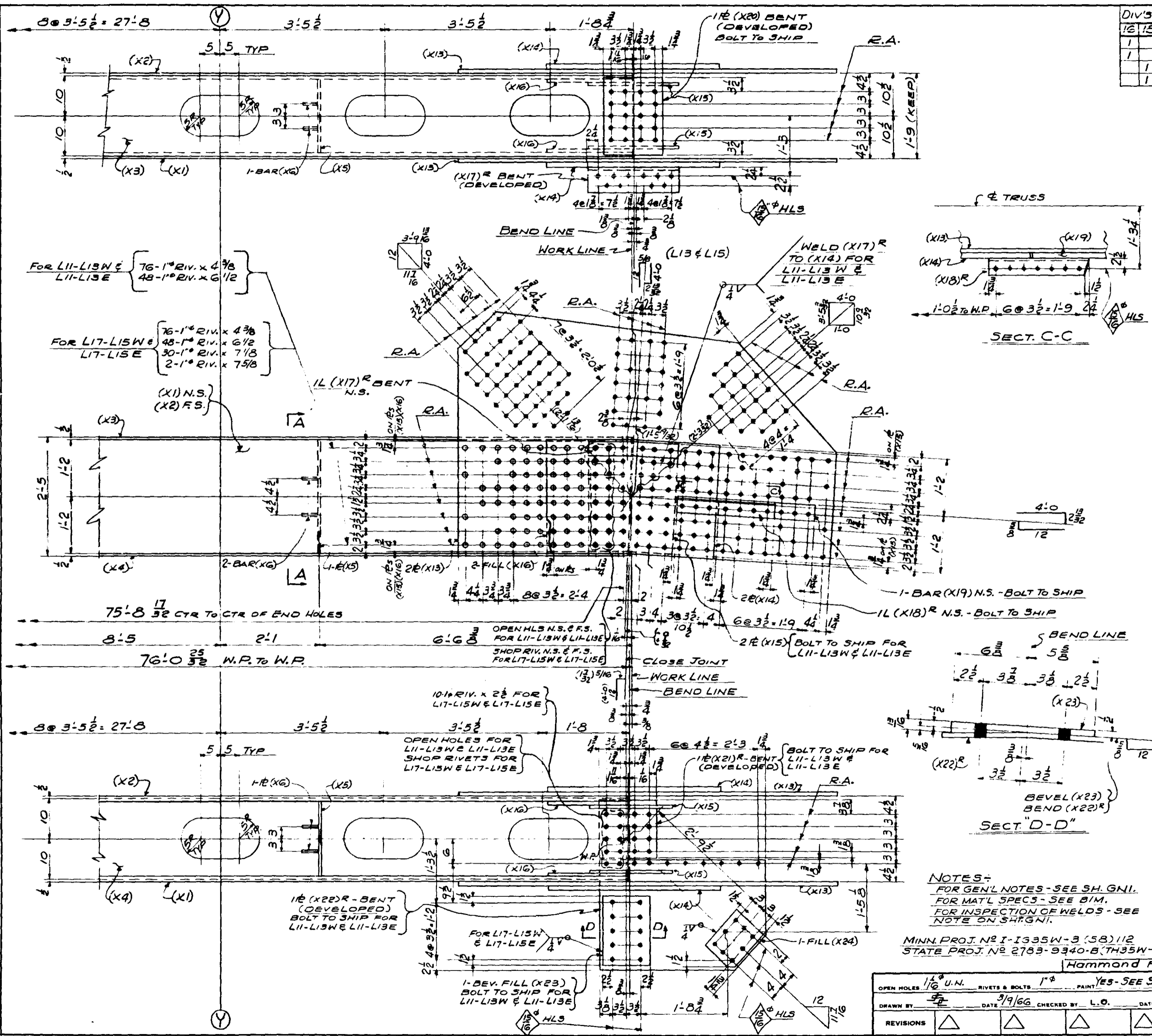
MINN. PROJ. NO. 2-IG 35W-3 (58)112  
 STATE PROJ. NO. 2783-934CB TH35W-394

NO.	REVISIONS

DRAWN BY SP DATE 3/9/66  
 CHECKED BY L.O. DATE 4-1-66  
 IN CHARGE OF  
 FAB. PLANT Hammond  
 REFERENCE DWGS

**ALLIED** STRUCTURAL STEEL COMPANY  
 1110 15TH STREET S.W. MINNEAPOLIS, MINN. 55404

DETAILS OF LOWER CHORDS (L11-L13) & (L17-L15)  
 STRUCTURE BRIDGE NO. 9340  
 LOCATION MINNEAPOLIS, MINNESOTA  
 OWNER MINNESOTA STATE HWY DEPT  
 CONTRACT 3142 DIV 18 FABCOD 215 SHEET 1609BC



DIV'S	LINE	SHIP MK	NO	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT
1	2			ONE LOWER CHORD - 1609 (LII-LIIE) (AS SHOWN)					
1	3			ONE DO - 1609 (LII-LIIE) (OPPOSITE)					
1	4			ONE DO - 1609 (LII-LIIE) (OPPOSITE)					
1	5			ONE DO - 1609 (LII-LIIE) (AS SHOWN)					
6									
7				4 R 28 x 1 7/8	76 1 3/4	X1		5702	60
8				4 R 28 x 1 7/8	76 1 3/4	X2		5702	60
9				4 R 20 x 1 1/2	76 1 3/4	X3		5702	61
10				4 R 20 x 1 1/2	75 1 1/8	X4		5702	61
11				24 R 18 1/8 x 3/8	2 1/4	X5		5721	59
12				192 BAR 3/8 x 3/8	0 3/8	X6		5722	59
13				8 R 22 1/2 x 1/2	4 0	X7		5715	59
14				4 L 6 x 4 x 3/8	1 10 1/2	X8		3716	59
15				4 L 4 x 4 x 3/8	1 9	X9		3717	59
16				4 R 25 1/8 x 3/8	3 7	X10		3718	59
17				4 R 18 x 1/2	1 6	X11		3719	59
18				4 R 9 x 1/2	1 0	X12		3720	59
19				3 R 62 1/4 x 1	7 10 1/2	X13		3704	60
20				8 R 29 1/2 x 1 1/4	3 7 1/2	X14		3705	60
21				8 R 28 1/2 x 3/8	1 10 1/2	X15		3706	61
22				8 R 27 1/2 x 1 1/4	1 9 1/2	X16		3707	61
23				4 L 6 x 4 x 3/8	1 10 1/2	X17 BENT		3713	59
24				4 L 4 x 4 x 3/8	2 1	X18 7/8		3712	59
25				4 BAR 4 x 1 1/4	2 0 1/2	X19		3714	59
26				4 R 19 x 3/8	1 2	X20 BENT		3708	61
27				4 R 14 1/4 x 1/2	1 2	X21 BENT		3709	61
28				4 R 27 3/8 x 3/8	3 5	X22 7/8 BENT		3710	61
29				4 BEV FILL 12 x 1/2	1 5	X23		3711	59
30				4 FILL 9 x 1/2	1 0	X24		3720	59
31									
32									
33									
34									
35									
36				4 3/16 WLD	304	3			NC
37				4 1/4 WLD	44	4			NE
38									
39				504 1" RIV.					
40				192 1" RIV.	0 6 1/2				
41				60 1" RIV.	0 7 1/8				
42				4 1" RIV.	0 7 3/8				
43									
44				18 S.O.O. 1"					
45									
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54									
55									
56				EID ITEM	59		4147		
57									
58					60		00315		
59					61		23209		
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NOTES:  
 FOR GEN'L NOTES - SEE SH. GNI.  
 FOR MAT'L SPECS - SEE BIM.  
 FOR INSPECTION OF WELDS - SEE NOTE ON SH. GNI.

MINN. PROJ. NO. I-1335W-3 (58) 112  
 STATE PROJ. NO. 2783-9340-B (TH35W-394)

Hammond Fab.

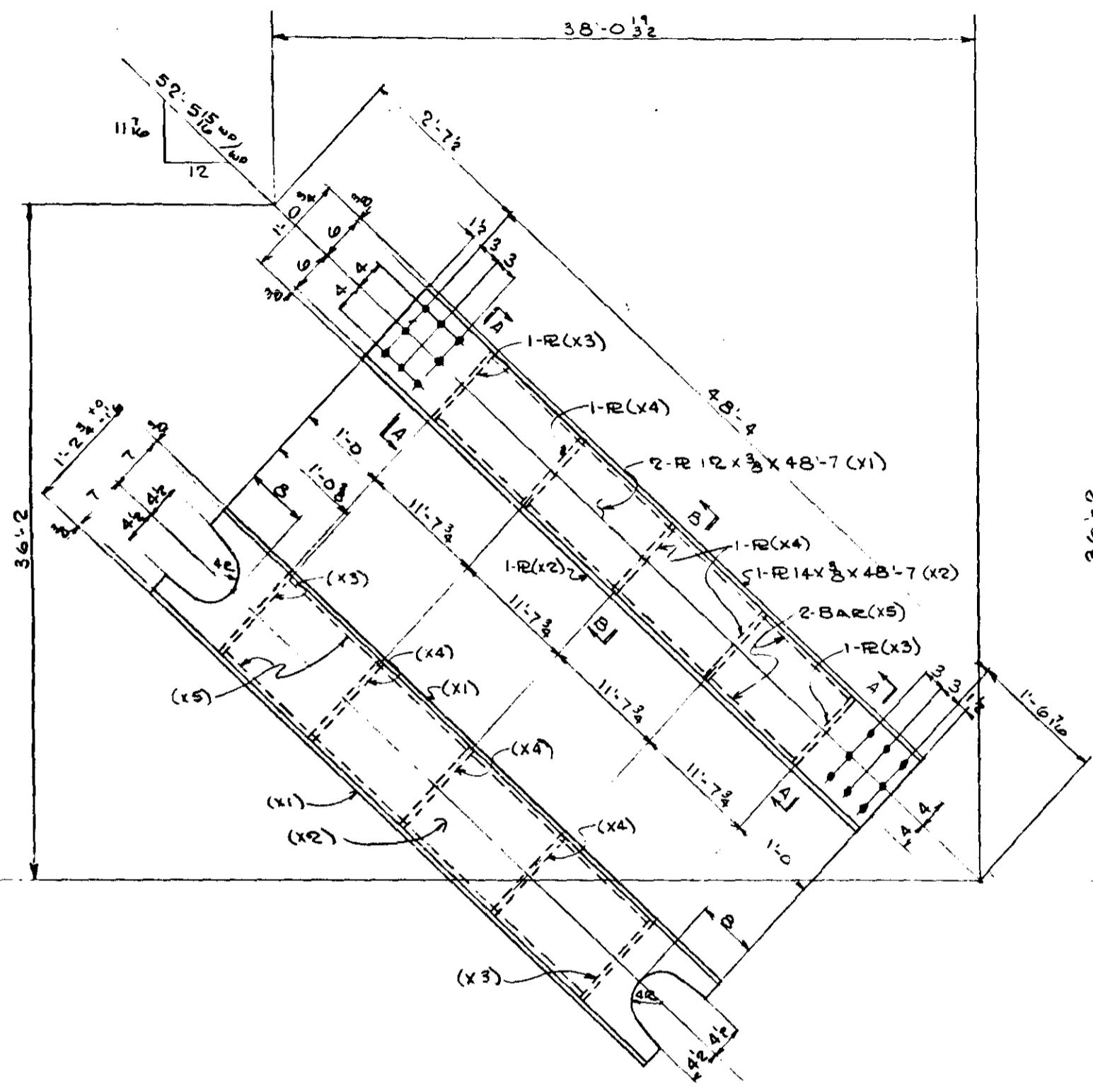
OPEN HOLES 1/8" U.N. RIVETS & BOLTS 1" PAINT Yes - SEE SH. GNI!  
 DRAWN BY: DATE 3/9/66 CHECKED BY: L.O. DATE 4-1-66

REVISIONS	△	△	△	△
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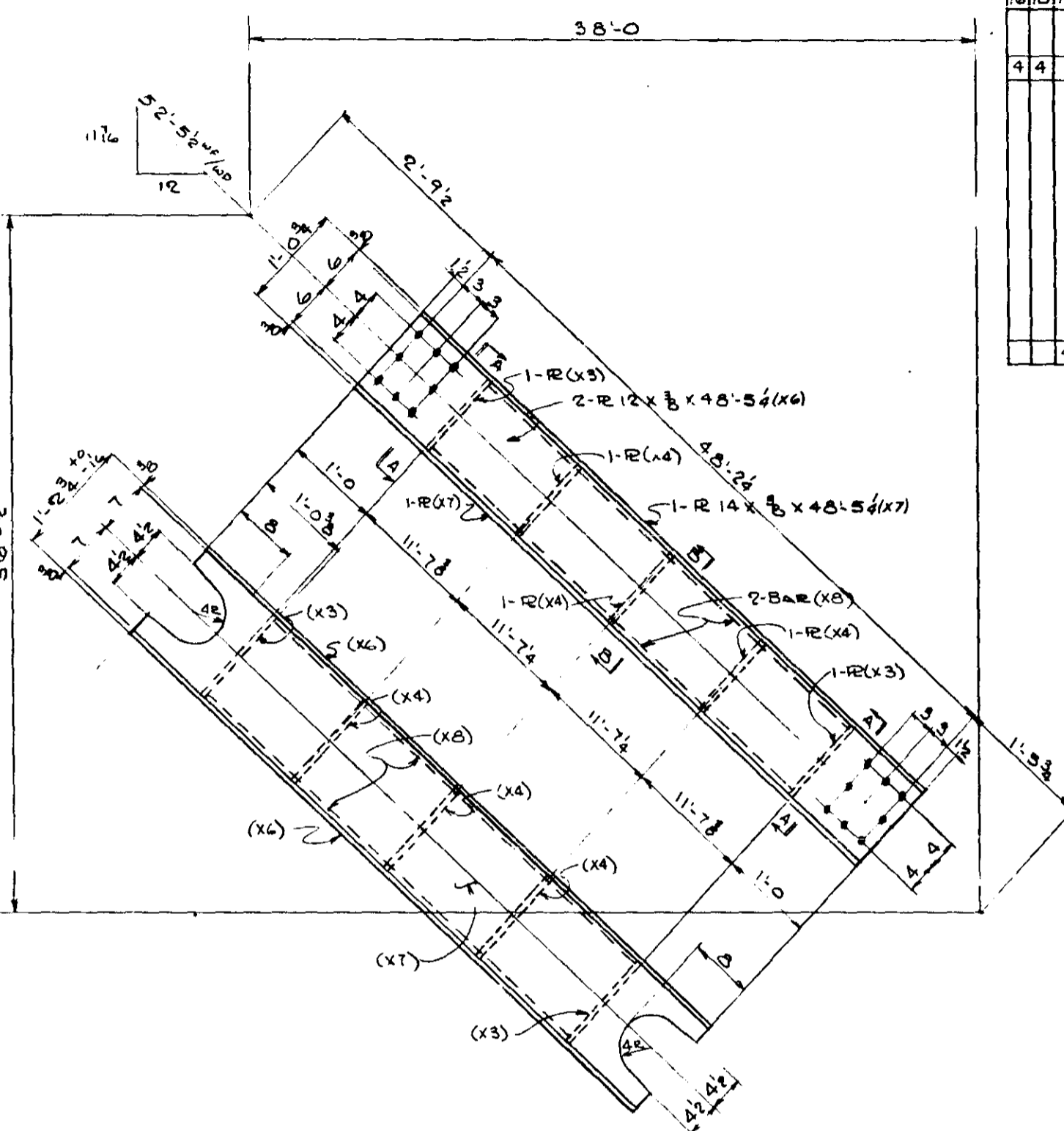
**ALLIED STRUCTURAL STEEL COMPANY**  
 1225 12TH STREET, MINNEAPOLIS, MINNESOTA

DETAILS OF LOWER CHORDS (LII-LIIE) & (LII-LIIE)  
 BRIDGE NO. 9340  
 LOCATION: MINNEAPOLIS, MINNESOTA  
 OWNER: MINNESOTA STATE HWY DEPT  
 CUSTOMER: MINNESOTA STATE HWY DEPT

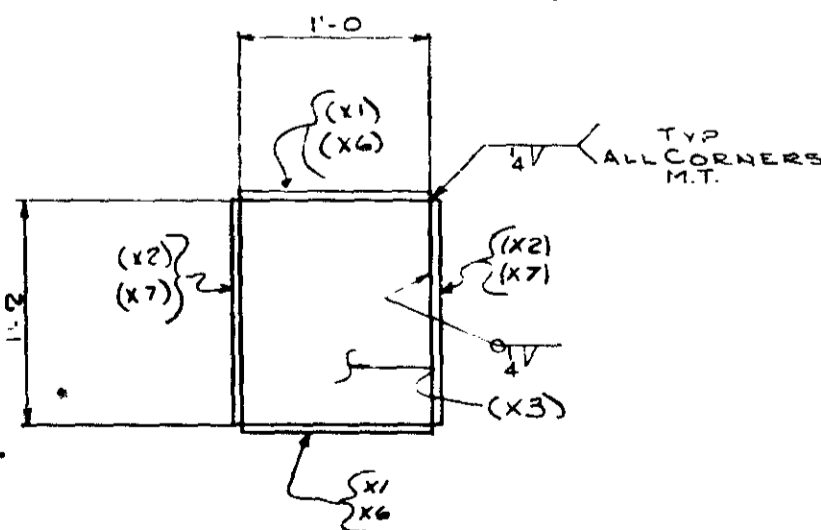
CONTRACT 3142    FABCOD 215    SHEET 1609C



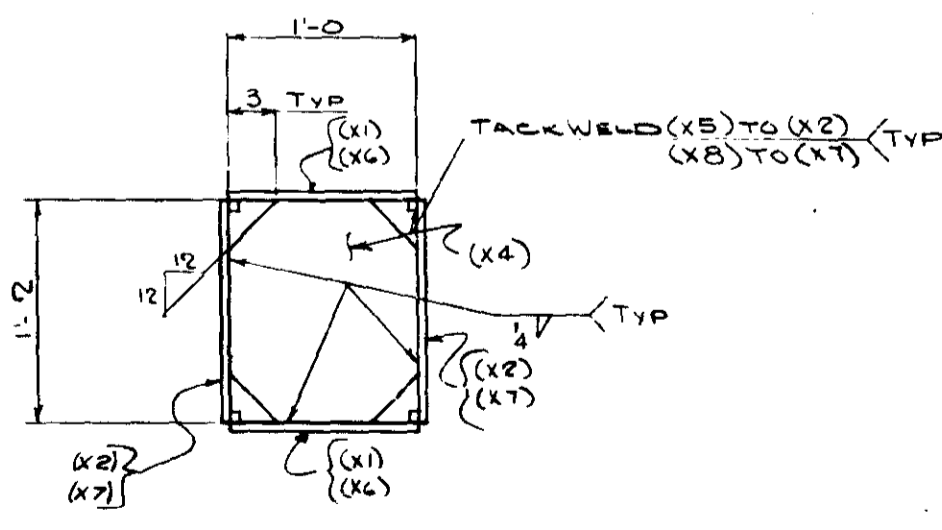
8-BOTTOM CHORD DIAGONALS-1612A



4-BOTTOM CHORD DIAGONALS-1612B



SECTION A-A



SECTION B-B

SHOP NOTE:  
 FOR GEN. NOTES SEE GNI  
 FOR MATL SPECS SEE BILL OF MATL  
 FOR INSPECTION OF WELDS SEE NOTE  
 ON SHY GNI

MINN. PROJ. NO. I-IG35W-3(58)112  
 STATE PROJ. NO. 2783-9340B (TH 35W = 394)

HAMMOND FAB

OPEN HOLE 1 1/2" RIVETS & BOLTS PAINT. AS SHOWN  
 DRAWN BY: [Signature] DATE: 5-2-66 CHECKED BY: L.D. DATE: 5-6-66

REVISIONS	△	△	△	△
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DIV.	ITEM	SHIP MK.	NO. REQ.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	PC. WT.
1612A	1									
1612A	2									
1612A	3									
1612A	4									
1612A	5			BOTTOM CHORD DIAGONALS						
	5		16	R 12 X 3/8	48.7	X1		3702	59	11893
	6		16	R 14 X 3/8	48.7	X2		3703		13875
	7		16	R 12 X 3/8	1.2	X3		3704		286
	8		24	R 12 X 3/8	1.2	X4		3705		428
	9		32	BAR 3/8 X 3/8	46.64	X5		3706	59	715
	10		4	F.W. 4	207.0					NC

1612B	4			BOTTOM CHORD DIAGONALS						
	17		8	R 12 X 3/8	48.5	X6		4302	59	5929
	18		8	R 14 X 3/8	48.5	X7		4303		6917
	19		16	BAR 3/8 X 3/8	46.42	X8		4304		356
	20		8	R		X3		4305		153
	21		12	R		X4		4306	59	219
	22		4	F.W. 4	207.0					NC

BID ITEM 59 = 40756

**ALLIED STRUCTURAL STEEL COMPANY**  
 ENGINEERS, FABRICATORS, ERECTORS  
 1240 10TH STREET, HAMBURG, ILLINOIS 62050

DETAILS OF: **BOTTOM CHORD LATERAL DIAGONAL**  
 STRUCTURE: **BRIDGE NO. 9340**  
 LOCATION: **MINNEAPOLIS, MINNESOTA**  
 OWNER: **MINNESOTA STATE HWY. DEPT.**  
 CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT **3142** FABCOD **264** SHEET **1612**