

ONE DIAGONAL 1302 L25-U26E } ALIKE EXCEPT
 ONE do 1302 L25-U26W } FOR MARKS

Div.	LINE	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL
		WT	REQ			WT		NO.	WEIGHT
13	1								
	2								
1	3			ONE DIAGONAL	1302 L25-U26E			(21 x 45'-0)	
1	4			ONE do	1302 L25-U26W			(21 x 45'-0)	
	5								
	6								
	7			4 R 18 x 3/8	44'-10 1/2 X1	UM	1802	61	6866 3310
	8			2 R 19 1/2 x 3/8	44'-10 1/2 X2		1808	61	2260 3310
	9								
	10								
	11			2 1/2 FW	179.6				N.C.
	12								
	13								
	14								
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	71								

BID ITEM 61 = 9126

SHOP NOTE
 FOR GEN NOTES SEE GN1
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE NOTE
 ON SHT. GN-1

MICRO-FILMED

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS Erectors
 1425 WEST STREET HAMMOND ILLINOIS 60461

DETAILS OF TRUSS, DIAGONAL (L25-U26)
 STRUCTURE BRIDGE No 9340
 LOCATION MINNEAPOLIS MINNESOTA
 OWNER MINN STATE HWY DEPT.
 CUSTOMER MINN STATE HWY DEPT.

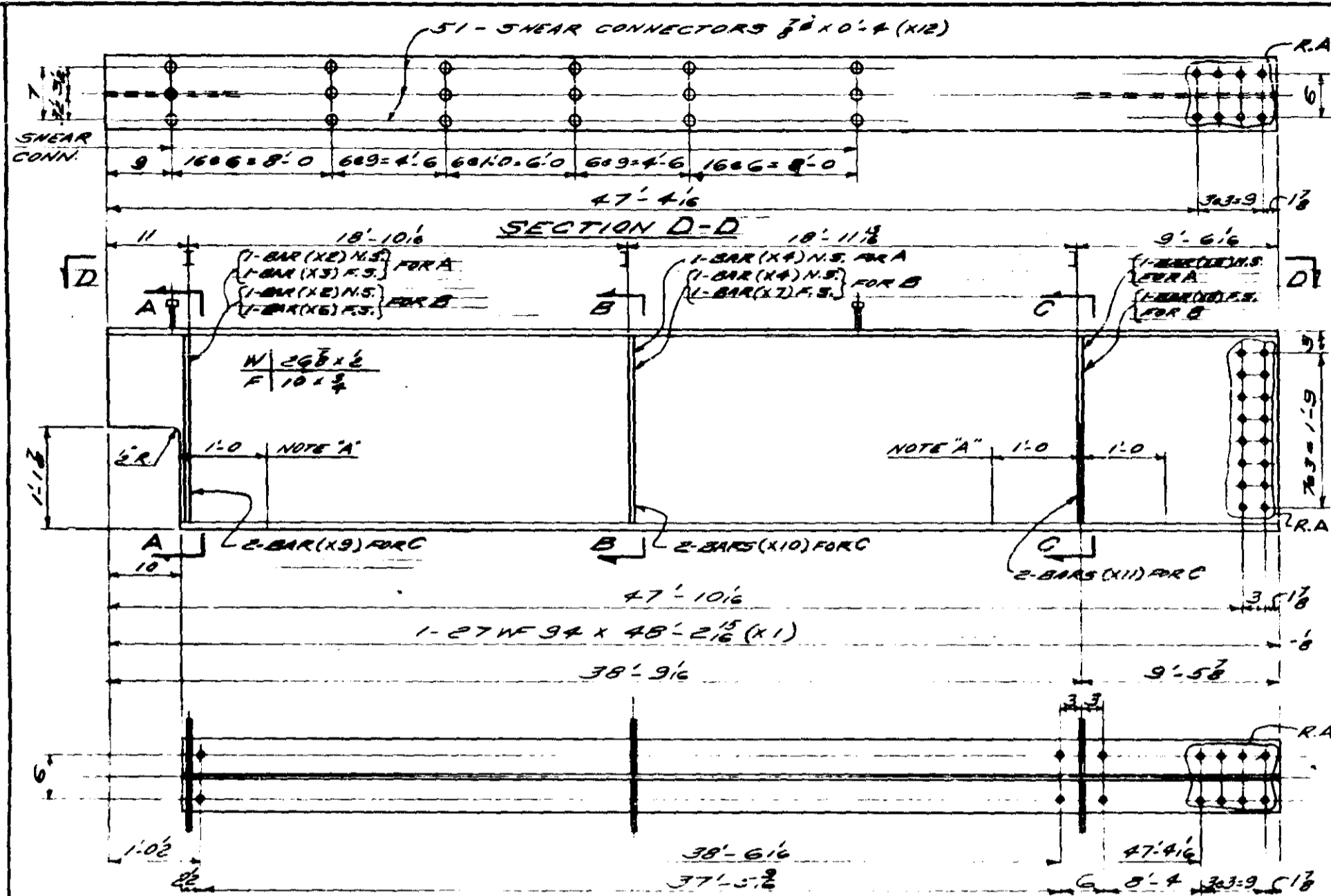
MINN PROJ No IIG 35W 3 (50)112
 STATE PROJ No 2783-9408 (TN 35 W 394)

HAMMOND FAB OPEN HOLES 1 1/2" RIVETS & BOLTS PAINT Yes SEE SHT GN1

DRAWN BY MJP DATE 1-24-66 CHECKED BY GN DATE

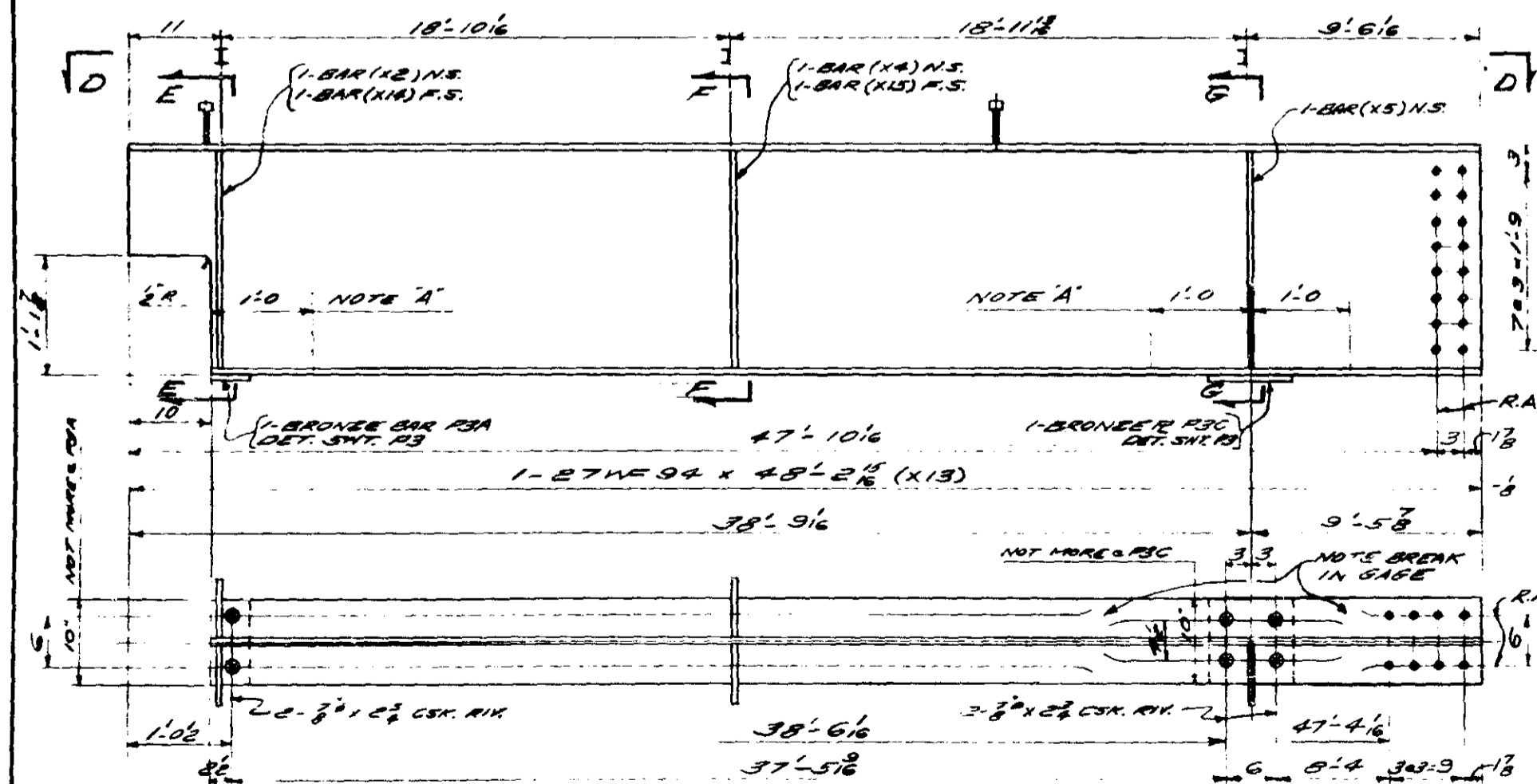
REVISIONS Δ Δ Δ Δ

CONTRACT 3142 FABCO 235 SHEET 1502

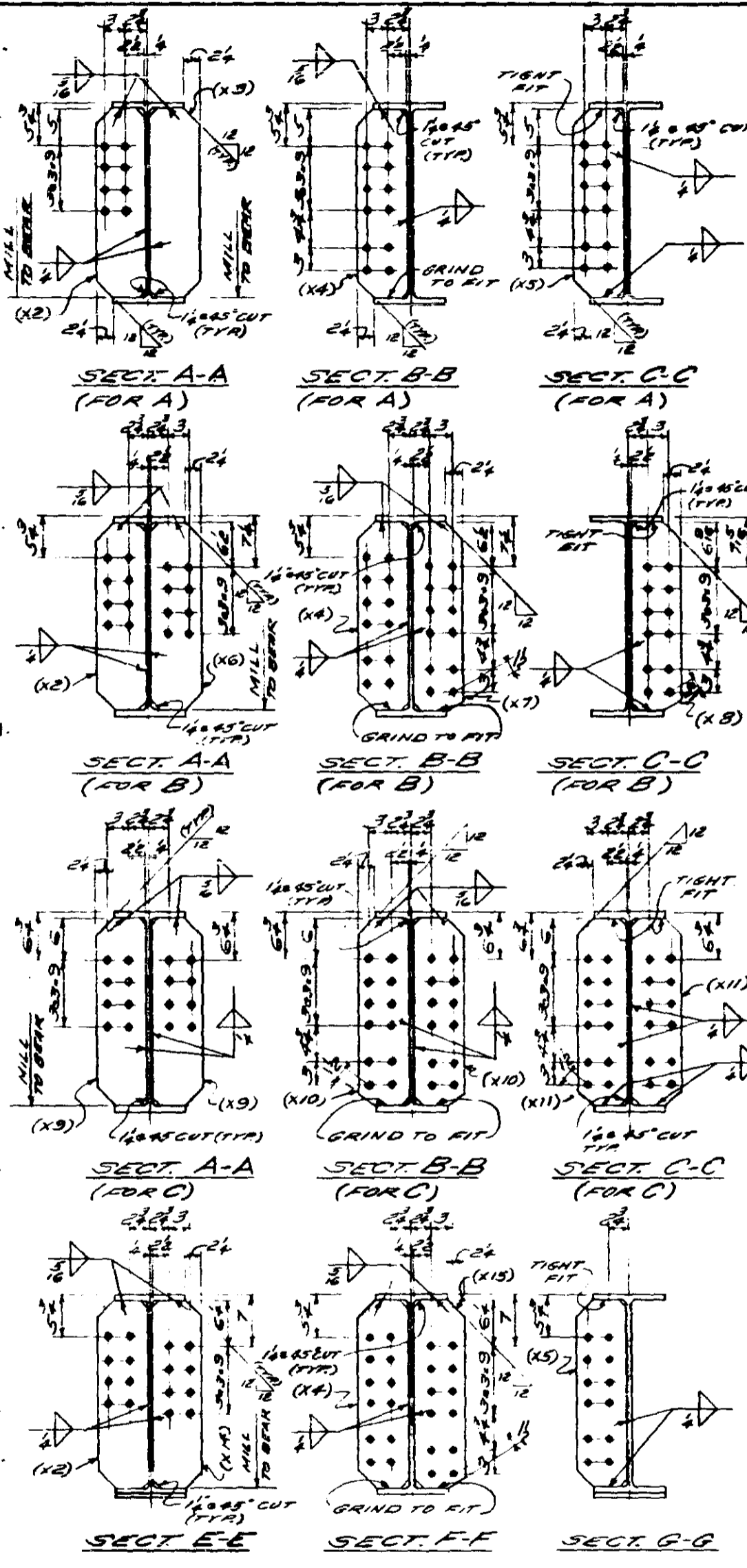


2-STRINGERS-1303A^R 2-STRINGERS-1303B^R
 2-STRINGERS-1303A^L 2-STRINGERS-1303B^L
 2-STRINGERS-1303C

NOTE 'A'
 BOT. FLG. TO BE 90° TO WEB
 * SUPP. FOR DISTANCE INDICATED.



ONE-STRINGER-1303D^R
 ONE-STRINGER-1303D^L



NOTES:
 MAT'L. SPEC'S AS NOTED IN BILL OF MAT'L.
 FOR GENERAL NOTES SEE SH. GN-1.

ITEM NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3							
4	1303A	2	STRINGERS		31' X 48' X 3		
5	1303A	2			31' X 48' X 3		
6	1303A	2			31' X 48' X 3		
7	1303A	2			31' X 48' X 3		
8	1303C	2	DO		31' X 48' X 3		
9	10	27 WF 94	48'-2 1/2"	X1			45350
10	8	BAR 7X 1/2	2'-1 1/2"	X2	MILL		201
11	4	BAR 7X 1/2	2'-1 1/2"	X2			100
12	8	BAR 7X 1/2	2'-1 1/2"	X2	FOR A		157
13	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR A		75
14	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR B		100
15	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR B		75
16	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR C		75
17	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR C		100
18	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR C		75
19	4	BAR 7X 1/2	2'-1 1/2"	X2	FOR C		75
20	50	51 SHEAR CONN	8" O.D.	X1	TYPE 53		1205
21							
22	4	2" WLD.	2'-0"		FOR A		NC
23	6	1/2" WLD.	2'-0"		FOR B/C		NC
24	4	1/2" WLD.	16'-0"		FOR A		
25	4	1/2" WLD.	20'-0"		FOR B		
26	4	1/2" WLD.	24'-0"		FOR C		
27							
28							
29							
30							
31							
32							
33	1303D	1	STRINGER		31' X 48' X 3		
34	1303D	1	STRINGER		31' X 48' X 3		
35	2	27 WF 94	48'-2 1/2"	X1		9070	3306
36	2	BAR	2'-1 1/2"	X2	M.I.E.	50	
37	2	BAR 7X 1/2	2'-1 1/2"	X2	M.I.E.	50	
38	2	BAR	2'-1 1/2"	X2		38	
39	2	BAR 7X 1/2	2'-1 1/2"	X2		38	
40	2	BAR	2'-1 1/2"	X2		38	
41	100	51 SHEAR CONN	8" O.D.	X1	TYPE 53	257	
42	2	BRONZE B			FOR A		
43	2	BRONZE B			FOR B		
44	12	CSK. RIV	3/8"				
45							
46	2	1/2" WLD.	2'-0"			NC	
47	2	1/2" WLD.	20'-0"			NC	
48							
49							
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51							
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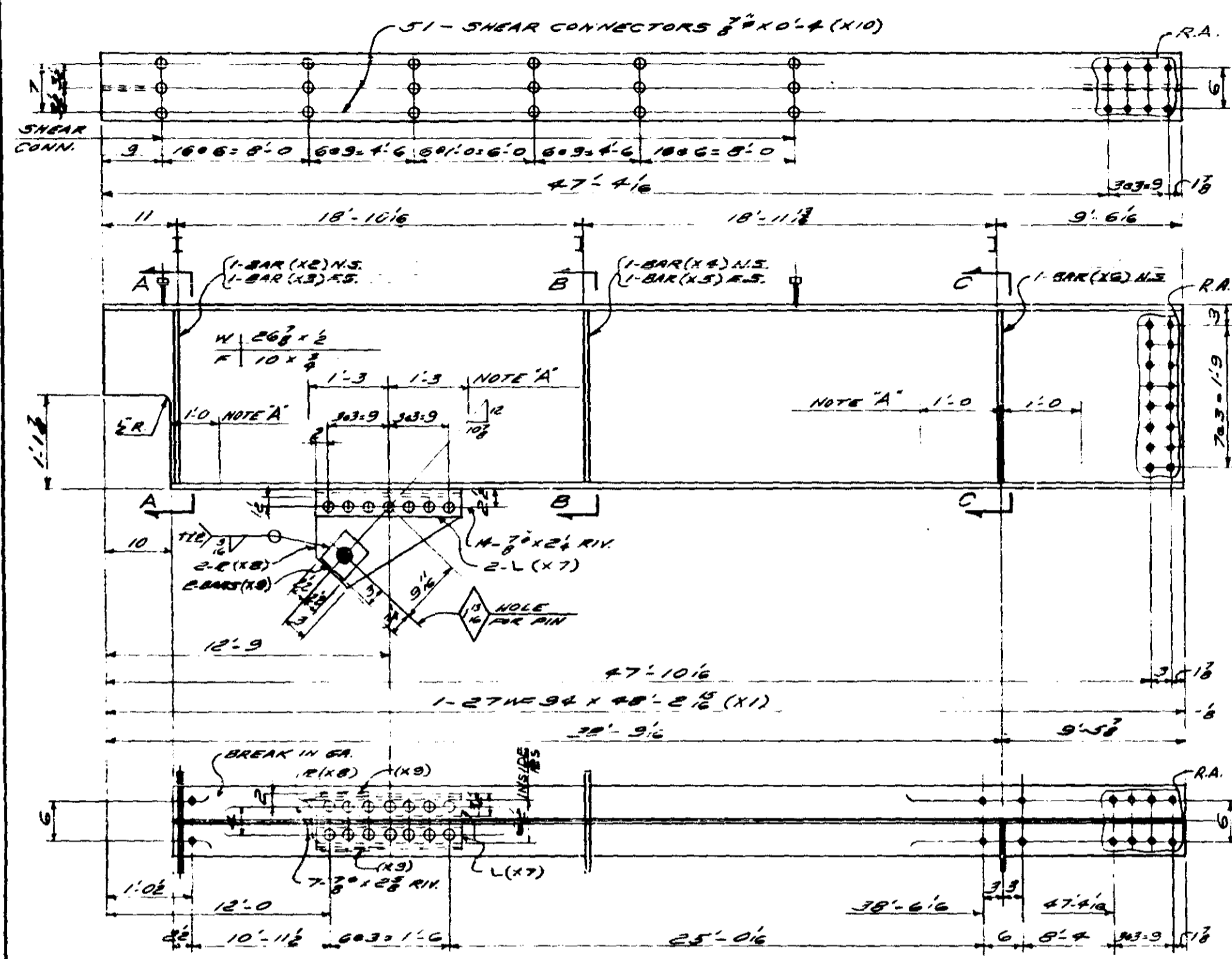
ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS

MINN. PROJ. NO. I-1635W-3 (38) 112 DIVISION #13
 STATE PROJ. NO. 2183-7840B (FH.35W-394) HAMMOND FAB.

DETAILS OF STRINGERS - RR U24 TO U25
 STRUCTURE BRIDGE NO. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINN. STATE HWY. DEPT.

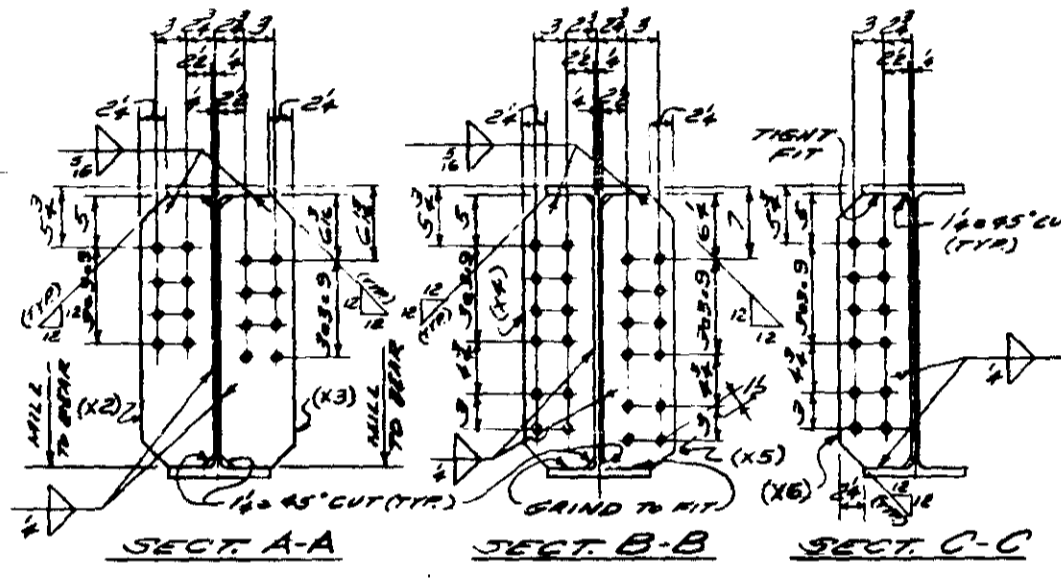
CONTRACT 3142 FABCOD 274 SHEET 1303

MICRO-FILMED



ONE — STRINGER — 1304A^R
 ONE — STRINGER — 1304A^L

NOTE A^R
 BOT. FLG. TO BE 90° TO WEB
 & SWAP, FOR DISTANCE INDICATED.



NOTES:
 MAT'L. SPEC'S. AS NOTED IN BILL OF MAT'L.
 FOR GENERAL NOTES SEE SMT. GN-1.

LINE	QTY	NO.	SHAPE	LENGTH	P.C.	REMARKS	ITEM NO.	TOTAL WEIGHT
1								
2								
3								
4	2	27WF 94	48'-2 1/2"	X1			59	4070
5	2	BAR 7 x 1/2	2'-1 1/2"	X2	M.I.E.			50
6	2	BAR 7 x 1/2	2'-1 1/2"	X3	M.I.E.			50
7	2	BAR 7 x 1/2	2'-1 1/2"	X4				38
8	2	BAR 7 x 1/2	2'-1 1/2"	X5				38
9	2	BAR 7 x 1/2	2'-1 1/2"	X6				38
10	2	BAR 7 x 1/2	2'-1 1/2"	X7				38
11	2	BAR 7 x 1/2	2'-1 1/2"	X8				38
12	2	BAR 7 x 1/2	2'-1 1/2"	X9				38
13	2	BAR 7 x 1/2	2'-1 1/2"	X10				38
14	2	BAR 7 x 1/2	2'-1 1/2"	X11				38
15	2	BAR 7 x 1/2	2'-1 1/2"	X12				38
16	2	BAR 7 x 1/2	2'-1 1/2"	X13				38
17	2	BAR 7 x 1/2	2'-1 1/2"	X14				38
18	2	BAR 7 x 1/2	2'-1 1/2"	X15				38
19	2	BAR 7 x 1/2	2'-1 1/2"	X16				38
20	2	BAR 7 x 1/2	2'-1 1/2"	X17				38
21	2	BAR 7 x 1/2	2'-1 1/2"	X18				38
22	2	BAR 7 x 1/2	2'-1 1/2"	X19				38
23	2	BAR 7 x 1/2	2'-1 1/2"	X20				38
24	2	BAR 7 x 1/2	2'-1 1/2"	X21				38
25	2	BAR 7 x 1/2	2'-1 1/2"	X22				38
26	2	BAR 7 x 1/2	2'-1 1/2"	X23				38
27	2	BAR 7 x 1/2	2'-1 1/2"	X24				38
28	2	BAR 7 x 1/2	2'-1 1/2"	X25				38
29	2	BAR 7 x 1/2	2'-1 1/2"	X26				38
30	2	BAR 7 x 1/2	2'-1 1/2"	X27				38
31	2	BAR 7 x 1/2	2'-1 1/2"	X28				38
32	2	BAR 7 x 1/2	2'-1 1/2"	X29				38
33	2	BAR 7 x 1/2	2'-1 1/2"	X30				38
34	2	BAR 7 x 1/2	2'-1 1/2"	X31				38
35	2	BAR 7 x 1/2	2'-1 1/2"	X32				38
36	2	BAR 7 x 1/2	2'-1 1/2"	X33				38
37	2	BAR 7 x 1/2	2'-1 1/2"	X34				38
38	2	BAR 7 x 1/2	2'-1 1/2"	X35				38
39	2	BAR 7 x 1/2	2'-1 1/2"	X36				38
40	2	BAR 7 x 1/2	2'-1 1/2"	X37				38
41	2	BAR 7 x 1/2	2'-1 1/2"	X38				38
42	2	BAR 7 x 1/2	2'-1 1/2"	X39				38
43	2	BAR 7 x 1/2	2'-1 1/2"	X40				38
44	2	BAR 7 x 1/2	2'-1 1/2"	X41				38
45	2	BAR 7 x 1/2	2'-1 1/2"	X42				38
46	2	BAR 7 x 1/2	2'-1 1/2"	X43				38
47	2	BAR 7 x 1/2	2'-1 1/2"	X44				38
48	2	BAR 7 x 1/2	2'-1 1/2"	X45				38
49	2	BAR 7 x 1/2	2'-1 1/2"	X46				38
50	2	BAR 7 x 1/2	2'-1 1/2"	X47				38
51	2	BAR 7 x 1/2	2'-1 1/2"	X48				38
52	2	BAR 7 x 1/2	2'-1 1/2"	X49				38
53	2	BAR 7 x 1/2	2'-1 1/2"	X50				38
54	2	BAR 7 x 1/2	2'-1 1/2"	X51				38
55	2	BAR 7 x 1/2	2'-1 1/2"	X52				38
56	2	BAR 7 x 1/2	2'-1 1/2"	X53				38
57	2	BAR 7 x 1/2	2'-1 1/2"	X54				38
58	2	BAR 7 x 1/2	2'-1 1/2"	X55				38
59	2	BAR 7 x 1/2	2'-1 1/2"	X56				38
60	2	BAR 7 x 1/2	2'-1 1/2"	X57				38
61	2	BAR 7 x 1/2	2'-1 1/2"	X58				38
62	2	BAR 7 x 1/2	2'-1 1/2"	X59				38
63	2	BAR 7 x 1/2	2'-1 1/2"	X60				38
64	2	BAR 7 x 1/2	2'-1 1/2"	X61				38
65	2	BAR 7 x 1/2	2'-1 1/2"	X62				38
66	2	BAR 7 x 1/2	2'-1 1/2"	X63				38
67	2	BAR 7 x 1/2	2'-1 1/2"	X64				38
68	2	BAR 7 x 1/2	2'-1 1/2"	X65				38
69	2	BAR 7 x 1/2	2'-1 1/2"	X66				38
70	2	BAR 7 x 1/2	2'-1 1/2"	X67				38
71	2	BAR 7 x 1/2	2'-1 1/2"	X68				38

BID ITEM 59 - 9789

FILMED

MINN. PROJ. NO. F-1035W-3 (58) 112
 STATE PROJ. NO. 2783-9340B (7135W-334)

DIVISION 13
 HANMOND RD.

DETAILS OF STRINGERS — RA USE TO USE
 BRIDGE NO. 3340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

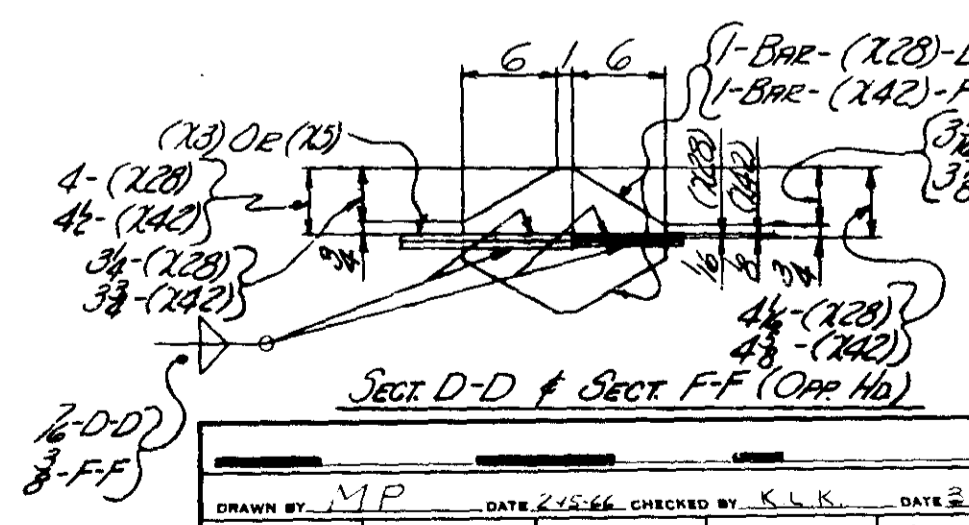
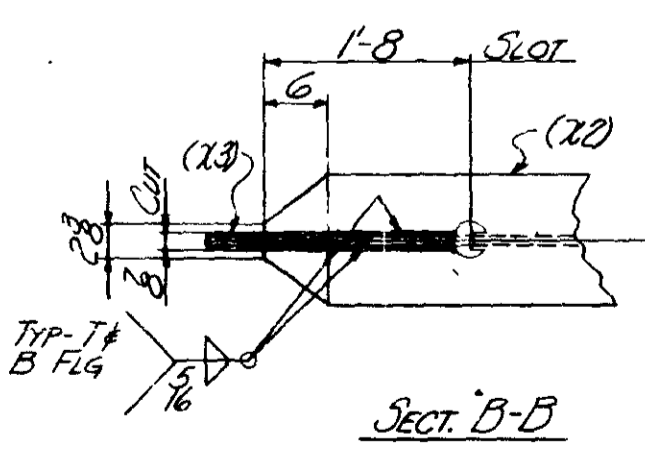
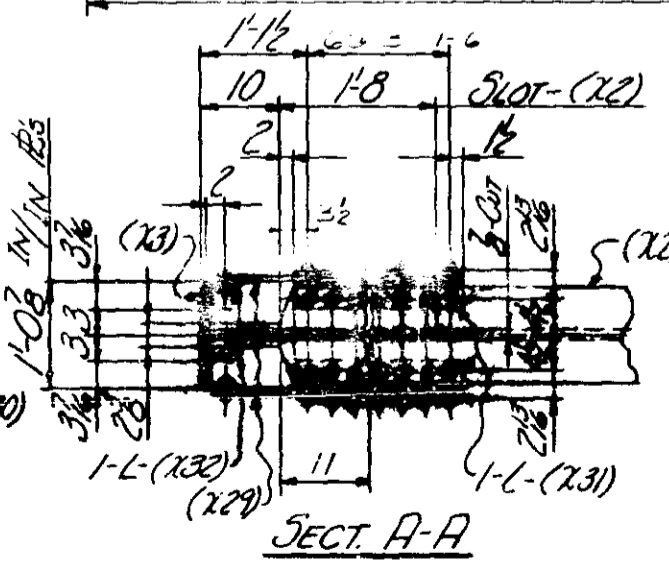
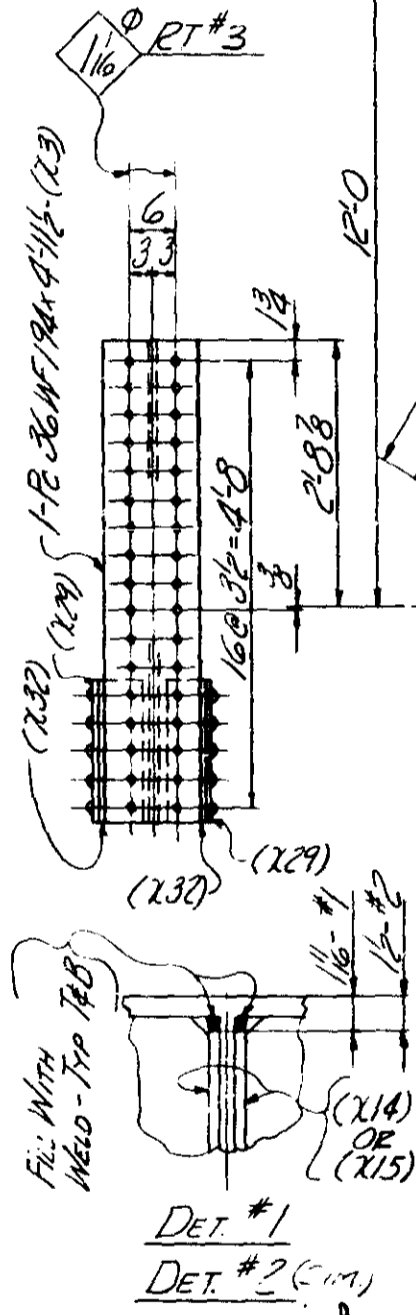
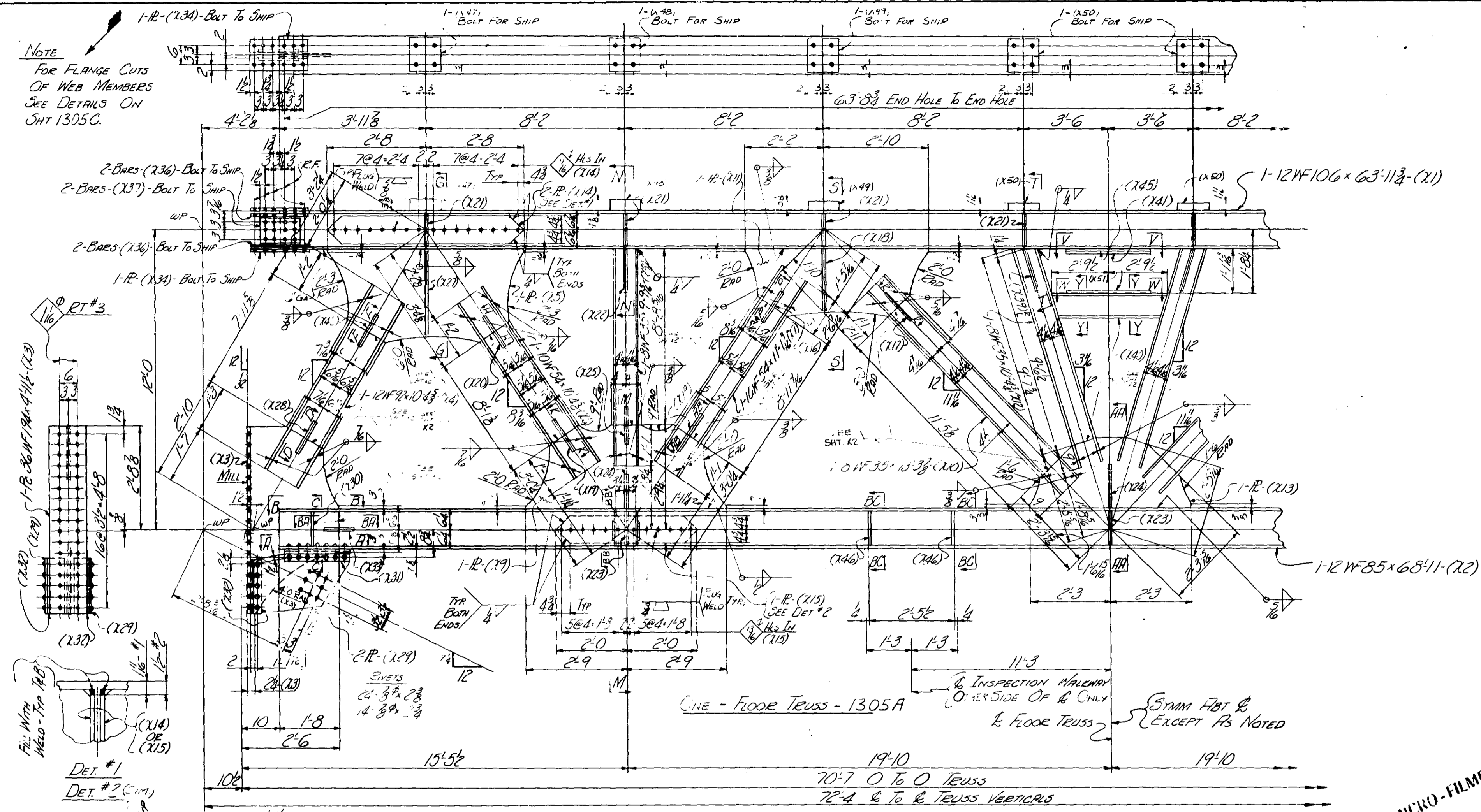
OPEN HOLES 1 1/2" U.N. RIVETS 2" PAINT SHEET PILE
 DRAWN BY: RL DATE: 2-15-66 CHECKED BY: K.L.K. DATE: 2-1-66

REF. SHEET: E9 REVISIONS: [Diagrams]

CONTRACT: 3142 FABCOD: 874 SHEET: 1304

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1400 10TH STREET, HARBOR, MINN. 55303

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1305C.



MICRO-FILMED

MINN. PROJ. No. I-1635W-3(58)112
STATE PROJ. No. 2783-9340B (7435W-394)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS, ERECTORS
1425-1426 STREET, HARMOND, INDIANA 46340

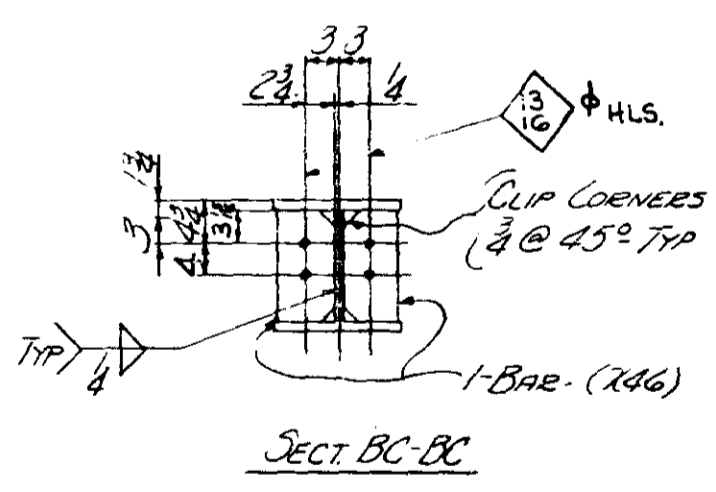
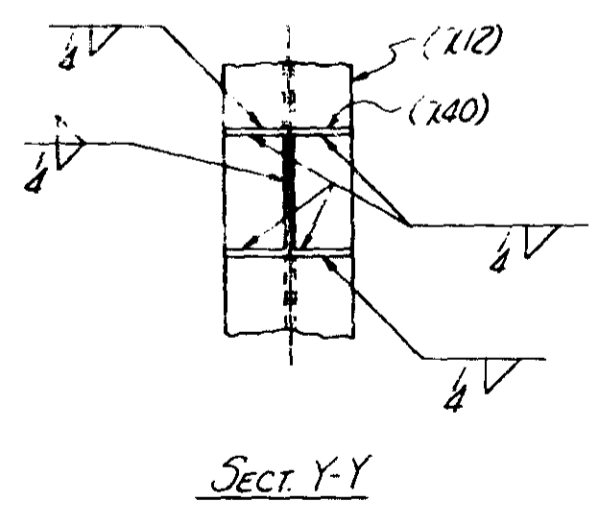
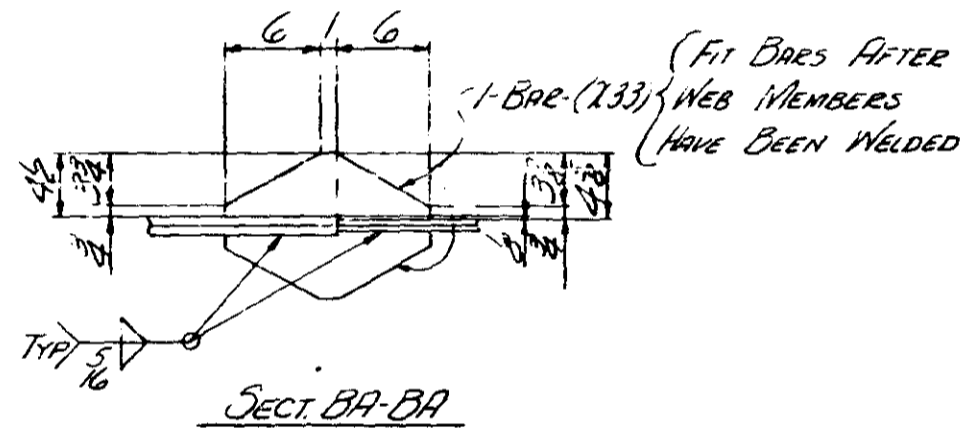
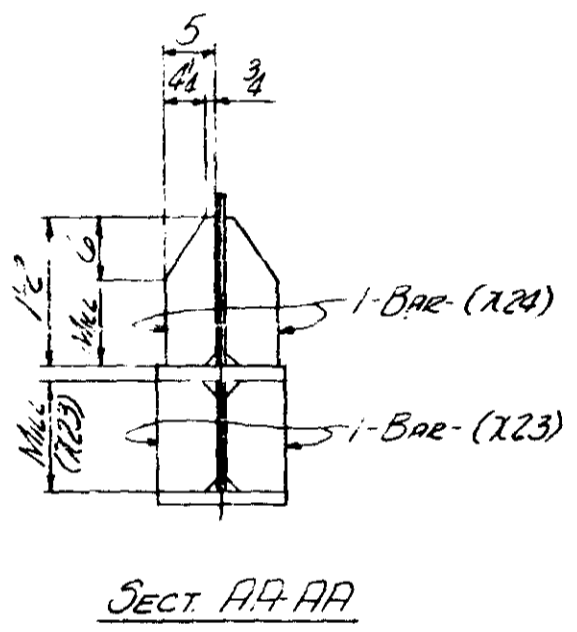
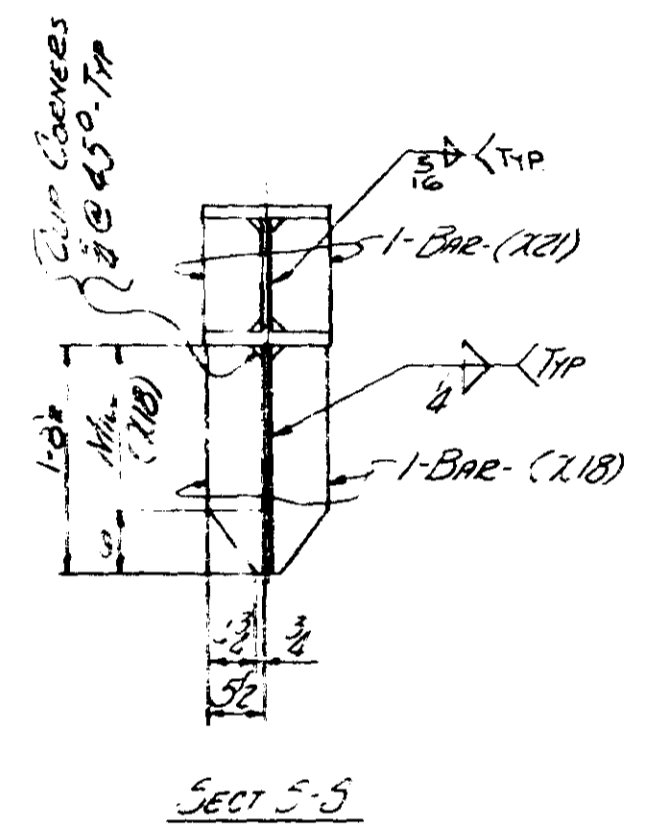
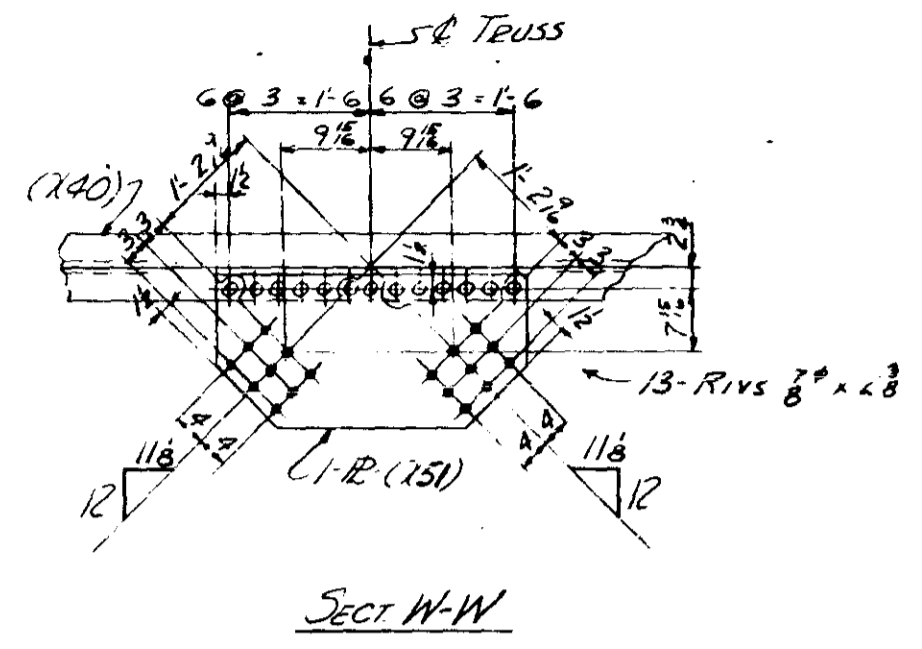
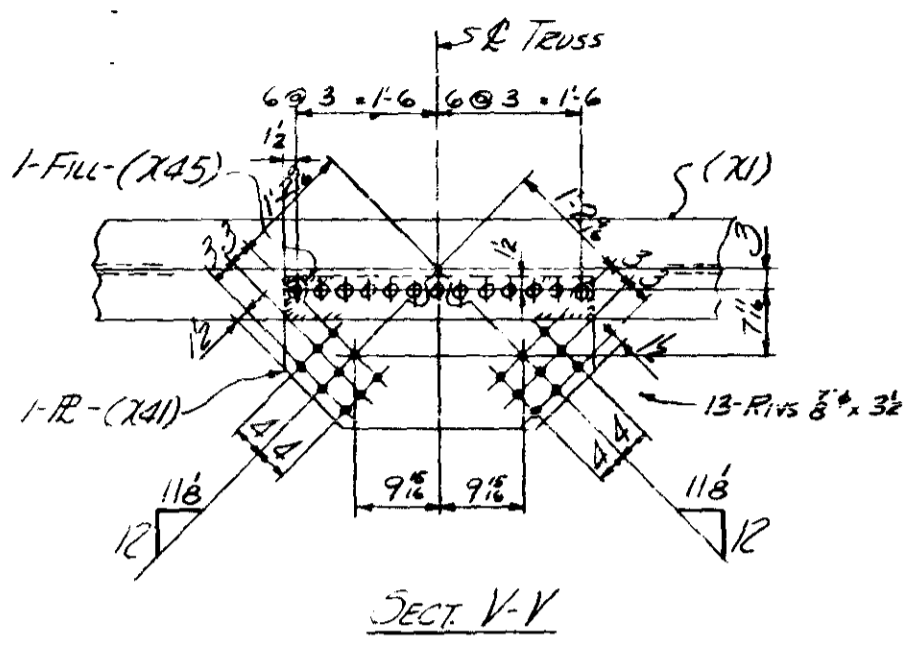
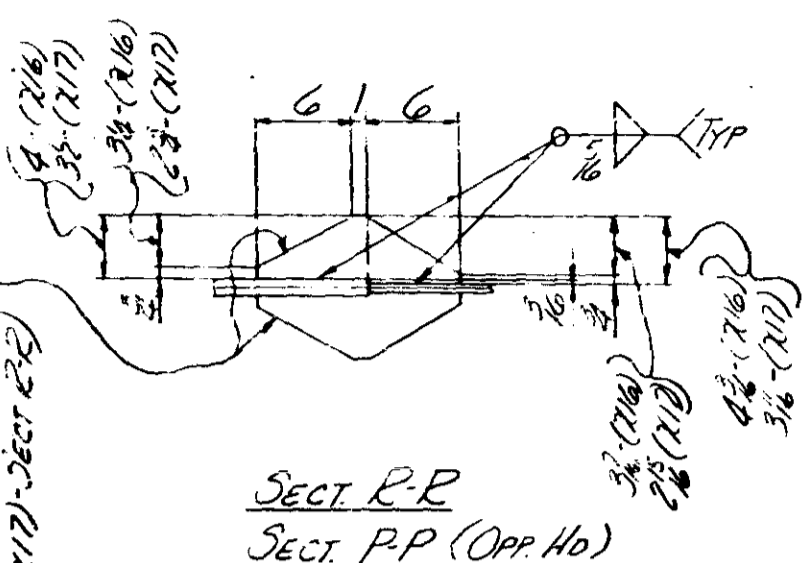
DETAILS OF FLOOR TRUSS @ U25
STRUCTURE BRIDGE No. 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HWY DEPT
CUSTOMER MINN. STATE HWY DEPT

DRAWN BY MP DATE 2-15-66 CHECKED BY K.L.K. DATE 2-15-66

REVISIONS	△	△	△	△
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CONTRACT 3142 FABCOD 244 SHEET 1305AC

Fit Bars After Web Members Have Been Welded
 1-Bar (X16) - SECT R-R
 1-Bar (X17) - SECT R-R



MICRO-FILMED

MINN. PROJ. NO. I-IG 35W-3 (58) 112
 STATE PROJ. NO. 2783-9340B (TH35W-394)

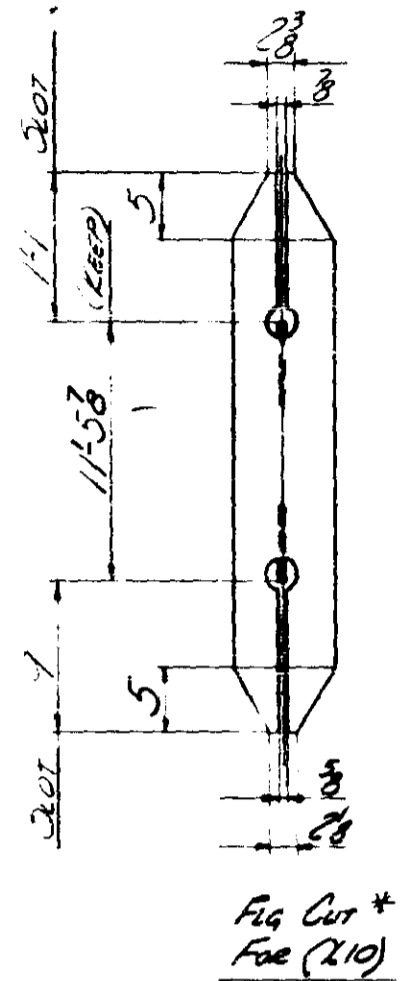
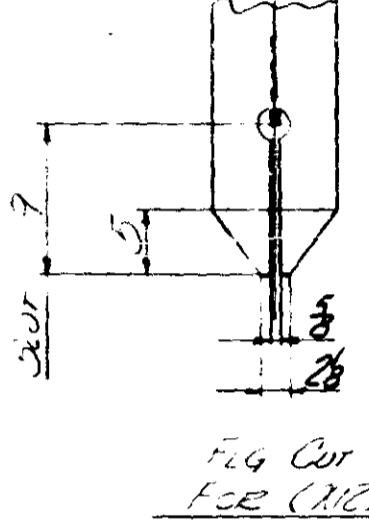
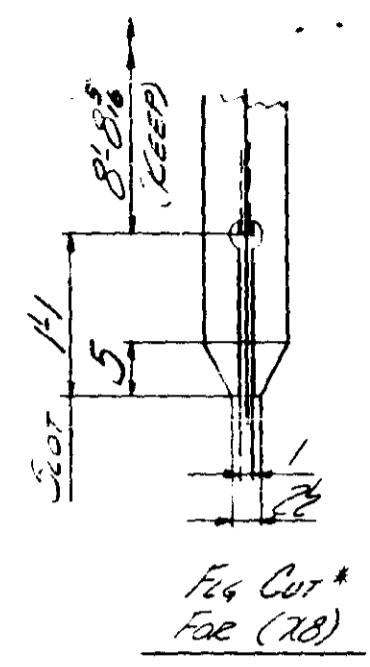
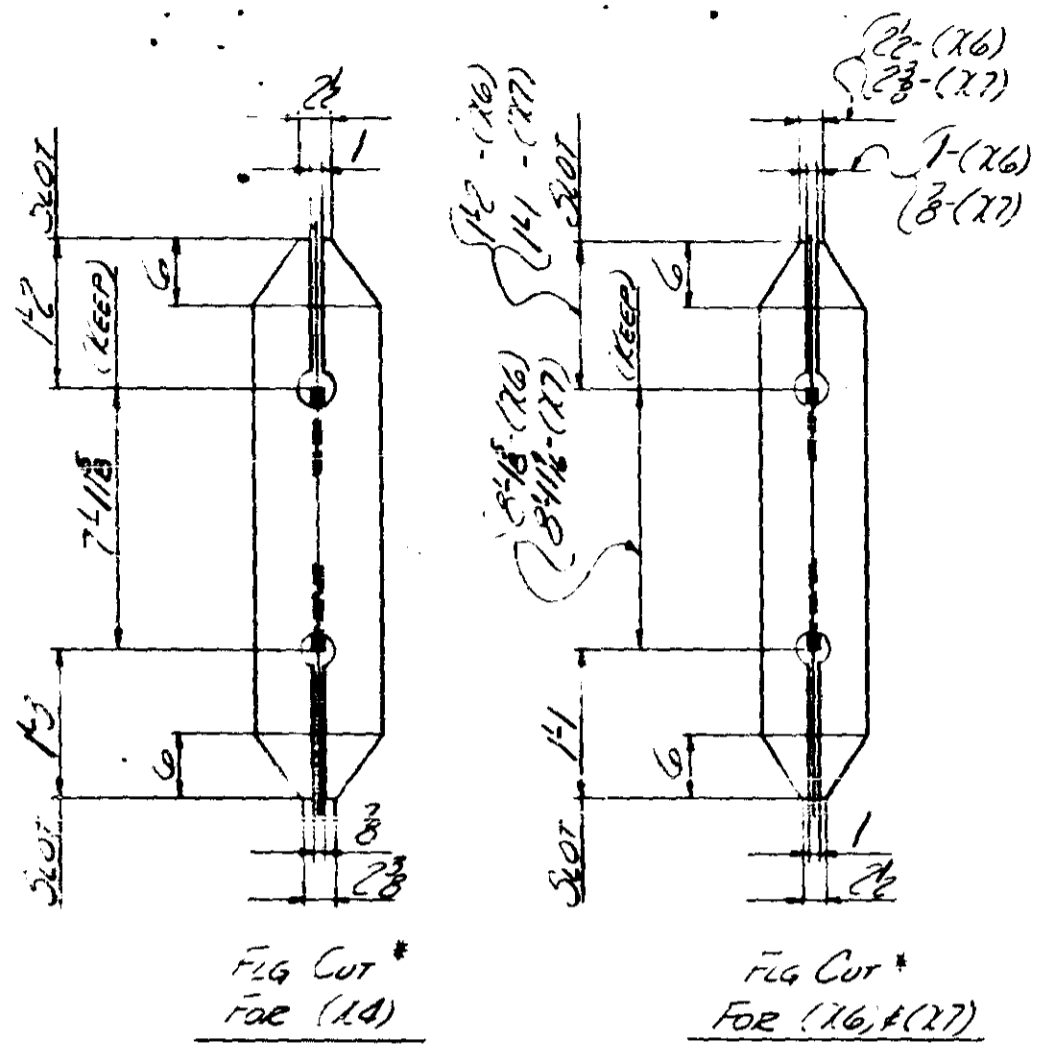
ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS ARCHITECTS DIRECTORS
 1220 12TH STREET, WARREN, MINN. 55790

DETAILS OF FLOOD TRUSS @ 425
 STRUCTURE BRIDGE No 9340
 LOCATION MINNEAPOLIS, MINN.
 OWNER MINN. STATE HWY DEPT.
 CUSTOMER MINN. STATE HWY DEPT.

DRAWN BY MP DATE 2/15/66 CHECKED BY K.L.K. DATE 3-1-66

REVISIONS	△	△	△	△
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CONTRACT 3142 FABCOD 244 SHEET 1305 BC

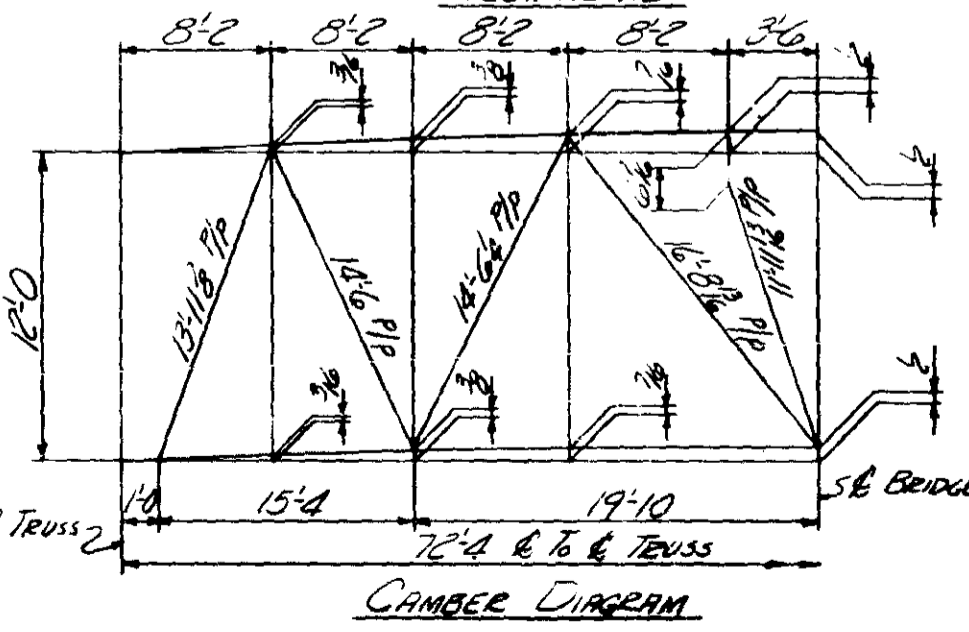
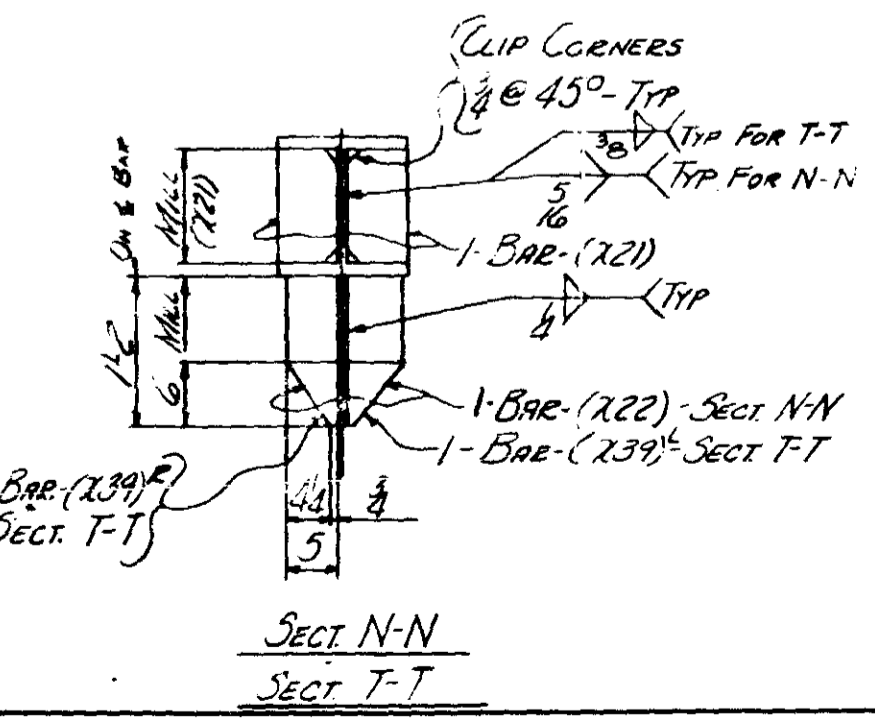
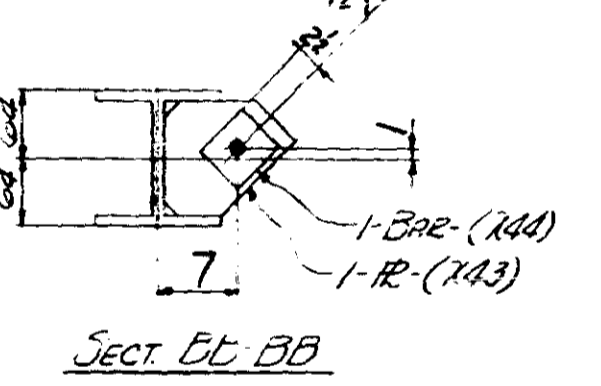
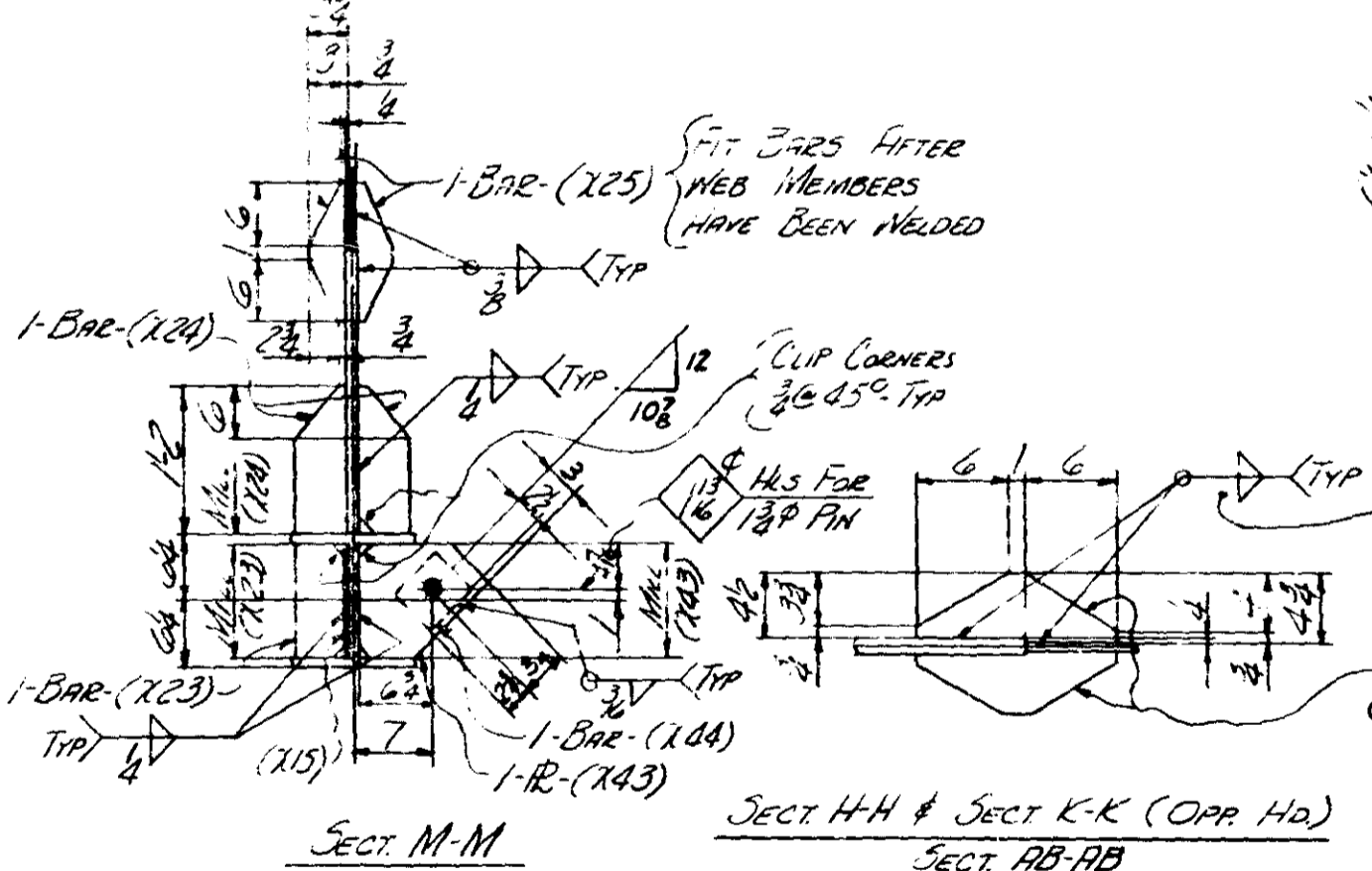
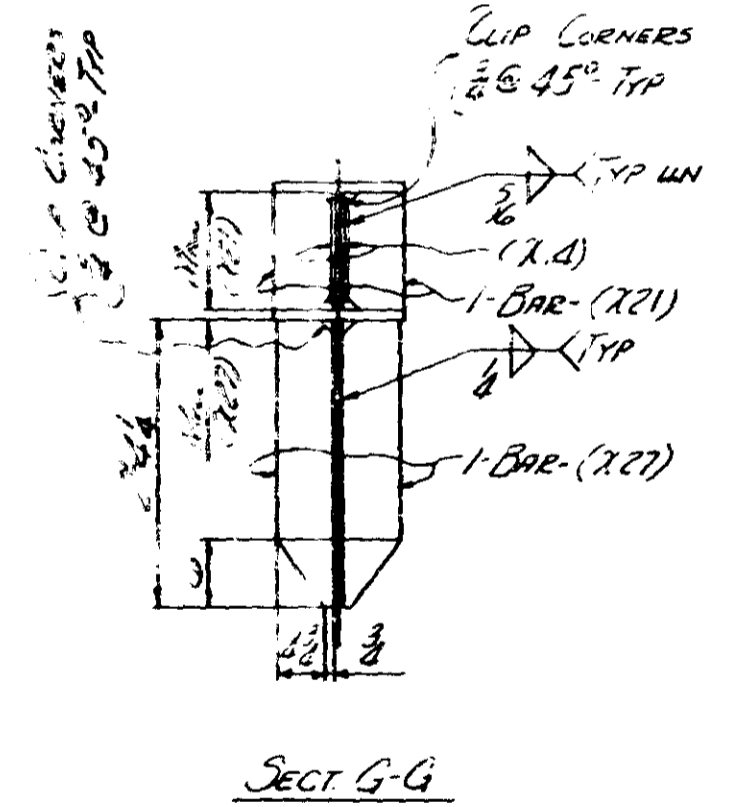


LINE	QTY	SHAPE	LENGTH
72	1	WILD	7.2
73	1	WILD	140.0
74	1	WILD	150.0
75	1	WILD	127.0
76	1	WILD	79.0
77	1	WILD	21.6
78	1	WILD	20.10
79	1	WILD	3.10

E.I. ITEM
59 = 24956

LINE	SHIP MK	NO	SHAPE	LENGTH	PC	REMARKS	FEW	TOTAL WEIGHT	WIND
1			FLOOR TRUSS (178 x 70'-8")						
1		1	12W106	63.118	21	SEE LIST			3300
1		1	12W106	28.0		SEE LIST		2760	
1		1	12W65	17.118		SEE LIST		2399	
1		1	12W85	68.11	72	SEE LIST			
1		1	12W85	45.8		SEE LIST		3882	
1		1	12W65	11.76		SEE LIST		1511	
1		1	Pc 36WF194	112.73		M. FLG.		1784	
1		1	12W92	10.48	74	SEE LIST		1911	
1		1	R 30 x 8	5.4	75	SEE LIST		952	
1		1	10W54	10.48	76	SEE LIST		1122	
1		1	10W54	11.76	77	SEE LIST		1202	
1		1	8W35	9.76	78	SEE LIST		684	
1		1	R 27 x 8	5.4	79	SEE LIST		884	
1		1	8W35	13.38	80	SEE LIST		933	
1		1	R 27 x 8	5.4	81	SEE LIST		561	
1		1	8W35	10.48	82	SEE LIST		728	
1		1	R 27 x 8	4.6	83	SEE LIST		176	
1		1	R 27 x 8	5.4	84	SEE LIST		215	
1		1	R 27 x 8	4.0	85	SEE LIST		97	3300
1		1	8W35	11.76	86	SEE LIST		23	3300
1		1	8W35	3.36	87	SEE LIST		16	3300
1		1	8W35	1.176	88	SEE LIST		50	3300
1		1	8W35	3.36	89	SEE LIST		74	3300
1		1	8W35	3.36	90	SEE LIST		45	3300
1		1	8W35	3.36	91	SEE LIST		136	3300
1		1	8W35	3.36	92	SEE LIST		83	3300
1		1	8W35	3.36	93	SEE LIST		25	3300
1		1	8W35	3.36	94	SEE LIST		49	3300
1		1	8W35	3.36	95	SEE LIST		16	3300
1		1	8W35	3.36	96	SEE LIST		81	3300
1		1	8W35	3.36	97	SEE LIST		25	3300
1		1	8W35	3.36	98	SEE LIST		343	
1		1	8W35	3.36	99	SEE LIST		25	
1		1	8W35	3.36	100	SEE LIST		61	
1		1	8W35	3.36	101	SEE LIST		61	
1		1	8W35	3.36	102	SEE LIST		103	3300
1		1	8W35	3.36	103	SEE LIST		62	3300
1		1	8W35	3.36	104	SEE LIST		47	3300
1		1	8W35	3.36	105	SEE LIST		33	3300
1		1	8W35	3.36	106	SEE LIST		195	3300
1		1	8W35	3.36	107	SEE LIST		78	3300
1		1	8W35	3.36	108	SEE LIST		38	3300
1		1	8W35	3.36	109	SEE LIST		52	3300
1		1	8W35	3.36	110	SEE LIST		10	3300
1		1	8W35	3.36	111	SEE LIST		16	3300
1		1	8W35	3.36	112	SEE LIST		25	3300
1		1	8W35	3.36	113	SEE LIST		38	3300
1		1	8W35	3.36	114	SEE LIST		NC	
1		1	8W35	3.36	115	SEE LIST		NC	
1		1	8W35	3.36	116	SEE LIST		274	3300
1		1	8W35	3.36	117	SEE LIST		306	3300
1		1	8W35	3.36	118	SEE LIST		221	3300
1		1	8W35	3.36	119	SEE LIST		115	3300
1		1	8W35	3.36	120	SEE LIST		79	3300

* FOR BEVEL CUTS FOR WELDING SEE SHTS X1 & X2



SHOP NOTE
FOR GEN. NOTES SEE SHIT GNI
FOR MATL SPECS SEE BILL OF MATL
FOR X-RAY IDENTIFICATION NOS. SEE SHIT W1.
FOR WELD SEQUENCE AND WELDING OF TRUSS WEB MEMBERS SEE SHIT. X1 & X2
FOR INSPECTION OF WELDS SEE NOTE ON SHIT. GNI

MINN PROJ. No I-1635W-3(58)112
STATE PROJ. No 2783-9340B(TH35W-39A)

CLINTON FAB DIV. 13

OPEN HOLES 1/2" UN RIVETS 3/8" PAINT YES, SEE SHIT G1

DRAWN BY MP DATE 2/15/66 CHECKED BY DATE 2/15/66

REVISIONS

CONTRACT 3142 FABCOD 244 SHEET 1305C

ALLIED STRUCTURAL STEEL COMPANY

DETAILS OF FLOOR TRUSS @ U25

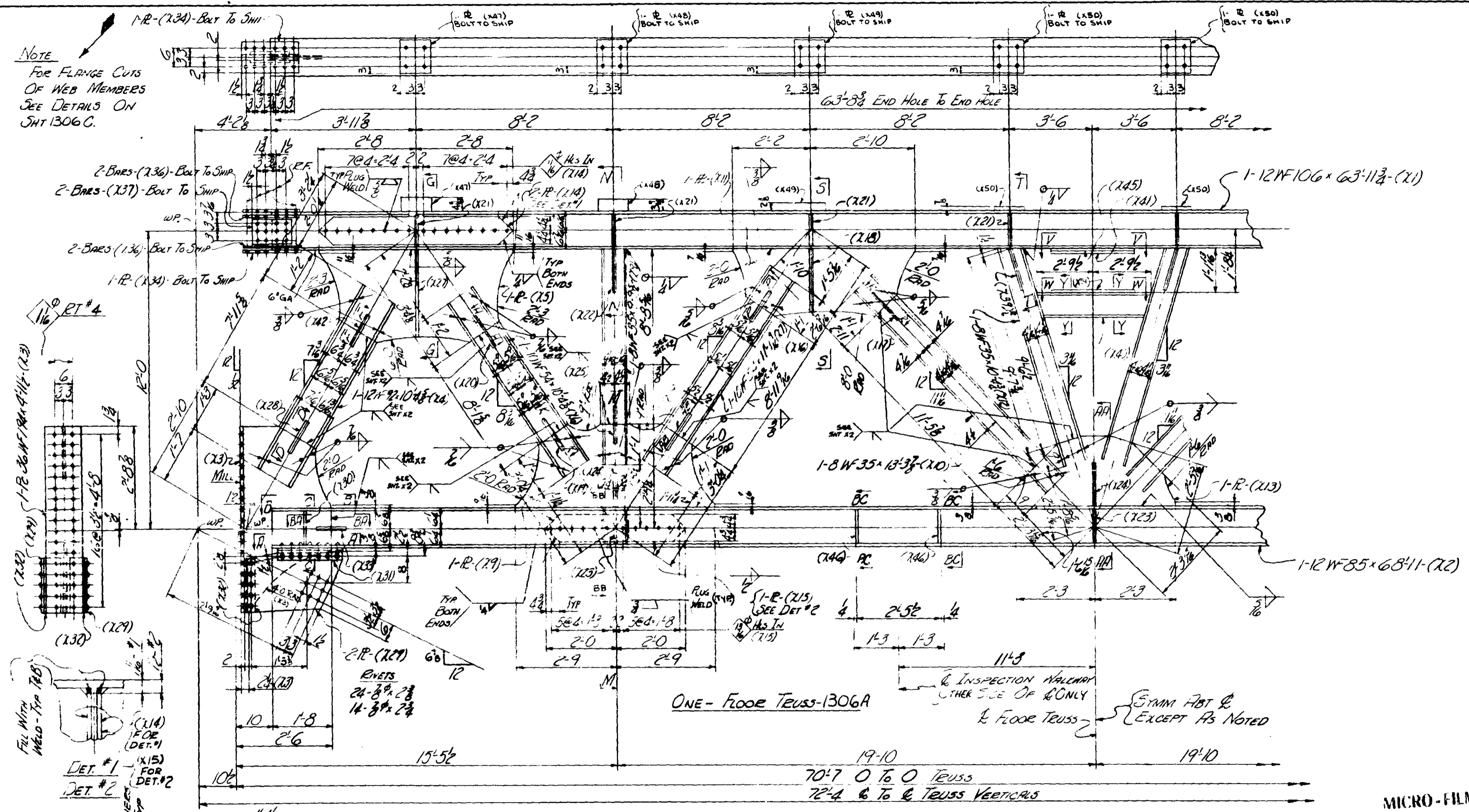
STRUCTURE BRIDGE No. 7340

LOCATION MINNEAPOLIS, MINN

OWNER MINN. STATE HWY DEPT

CUSTOMER MINN. STATE HWY DEPT

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1306 C.

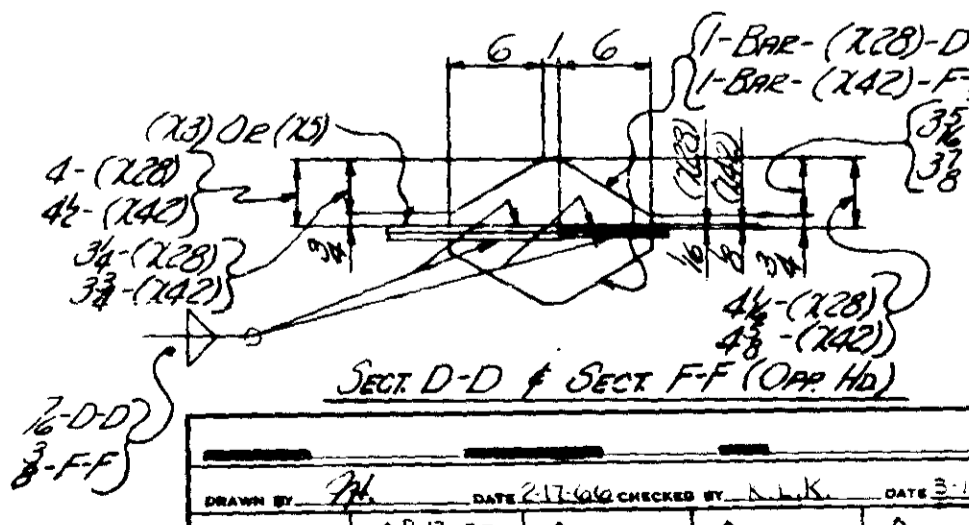
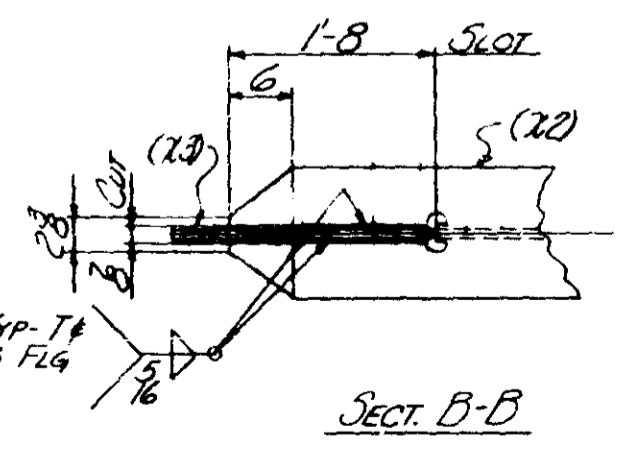
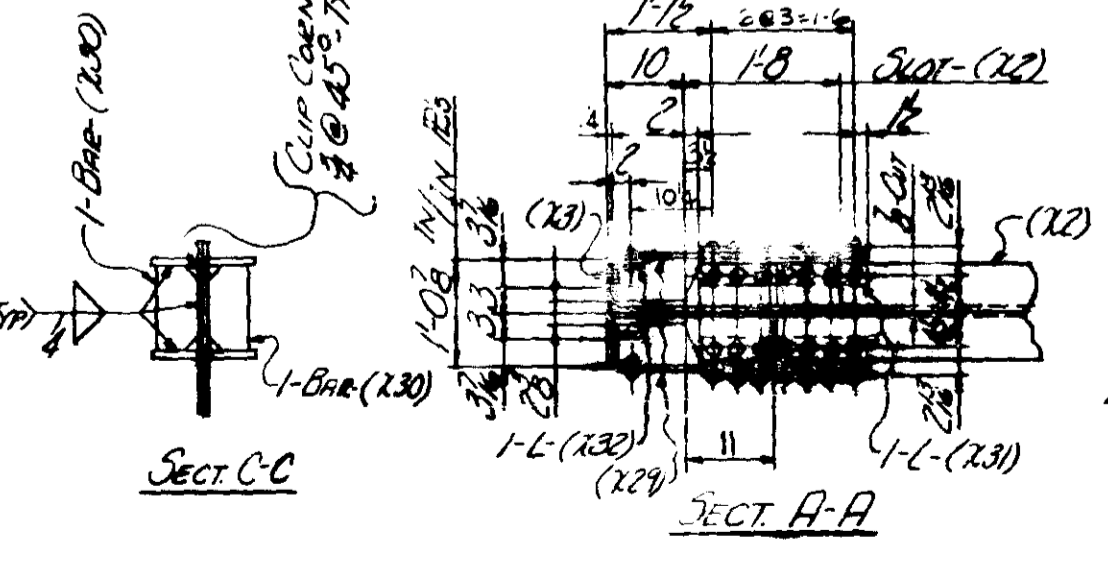


ONE-FLOOR TRUSS-1306A

70'-7" O TO O TRUSS
72'-4" O TO O TRUSS VERTICALS

INSPECTION WALKWAY
OTHER SIDE OF R.C. ONLY
& FLOOR TRUSS
SYMM. ABT &
EXCEPT AS NOTED

MICRO-FILMED



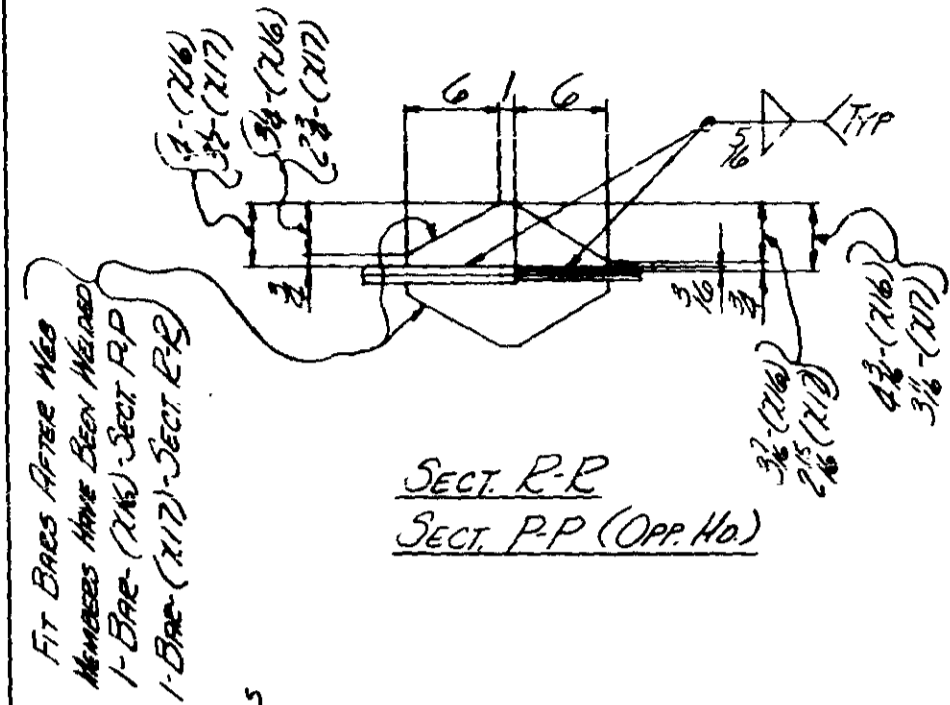
ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS
FABRICATORS
ERECTORS

DETAILS OF FLOOR TRUSS @ V26
STRUCTURE BRIDGE No 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HIGH DEPT.
CUSTOMER MINN. STATE HIGH DEPT.

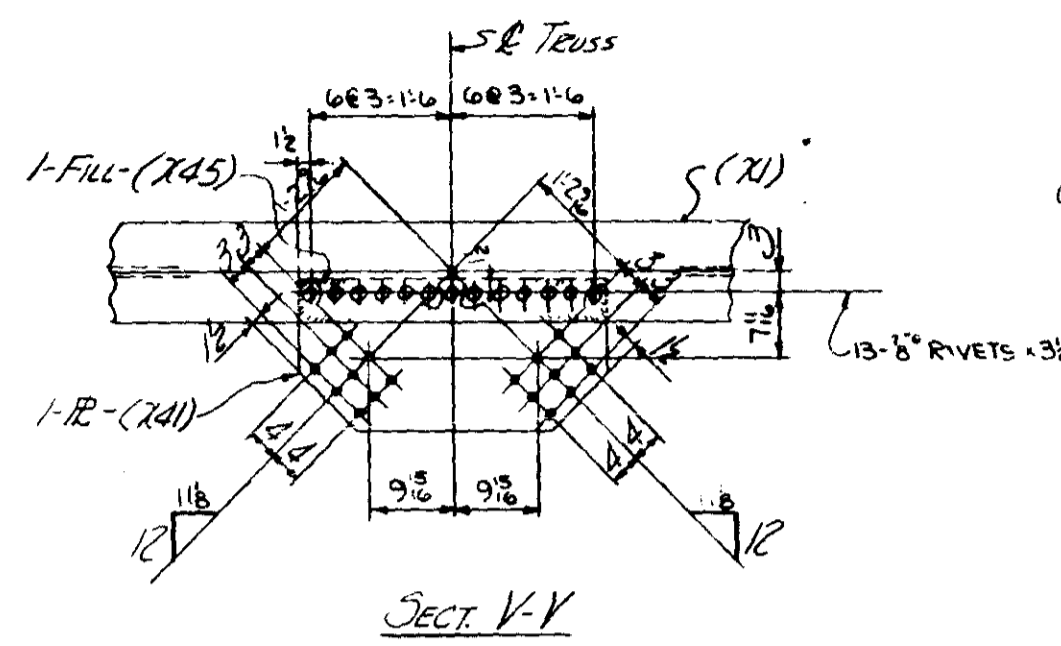
Min. Proj. No I-1635W-3 (58) 112
STATE Proj. No. 2783-9340B (TH35W-374)

CONTRACT 3142 FABCOD 244 SHEET 1306AC

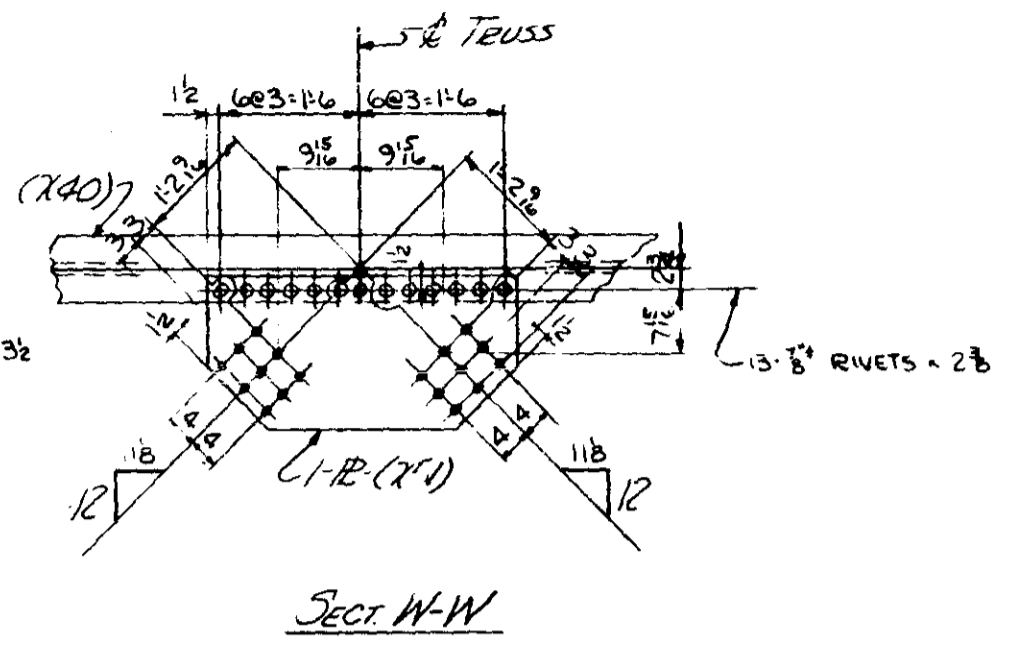
REVISIONS	1-13-67	2-17-68	3-1-68
	REN		



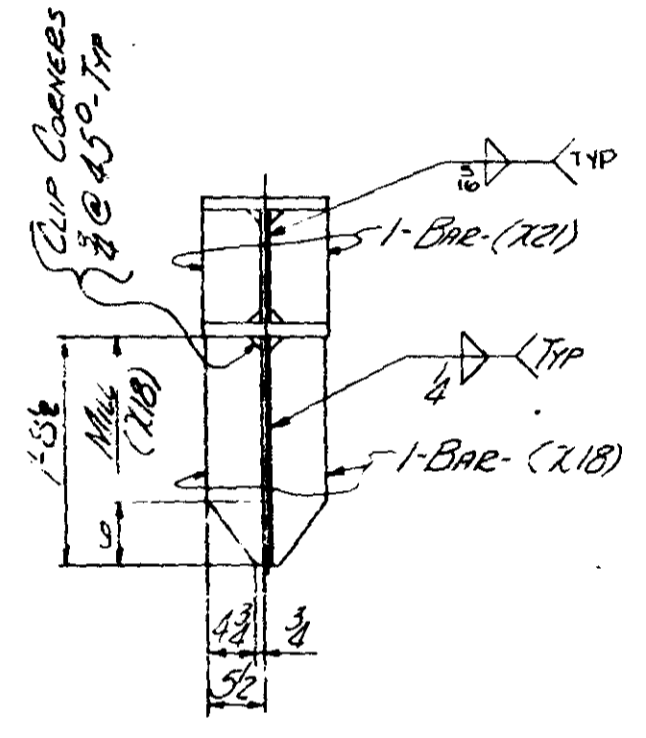
SECT. R-R
SECT. P-P (Opp. No.)



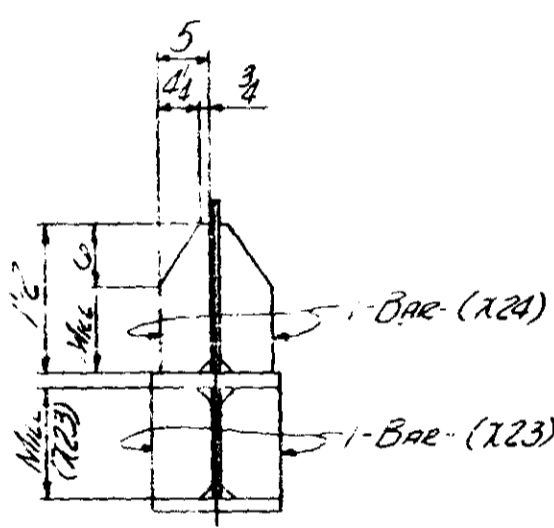
SECT. V-Y



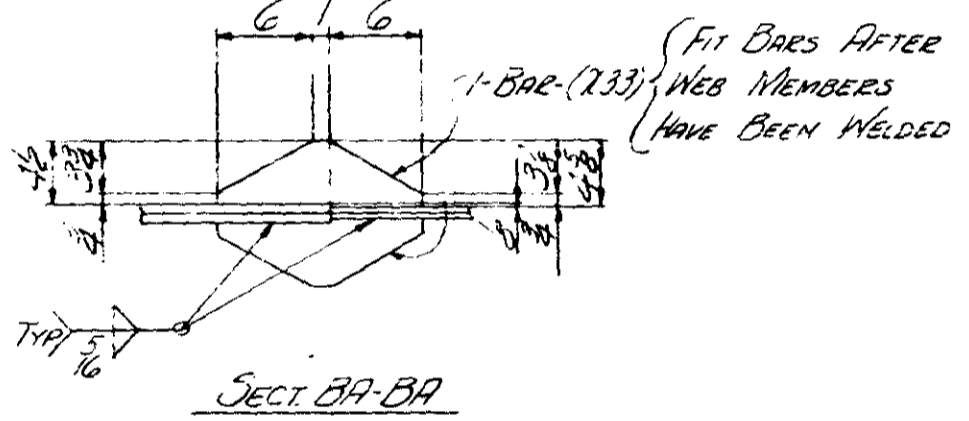
SECT. W-W



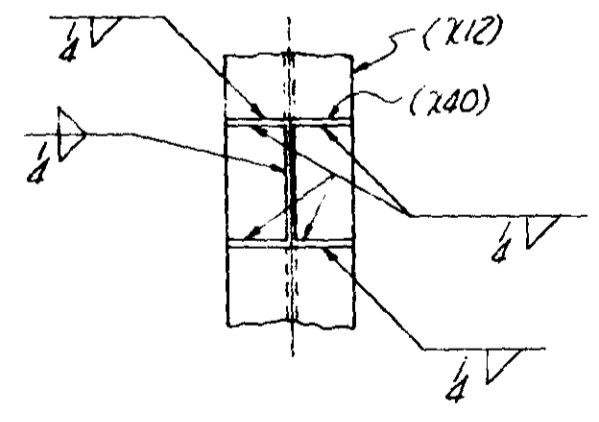
SECT. S-S



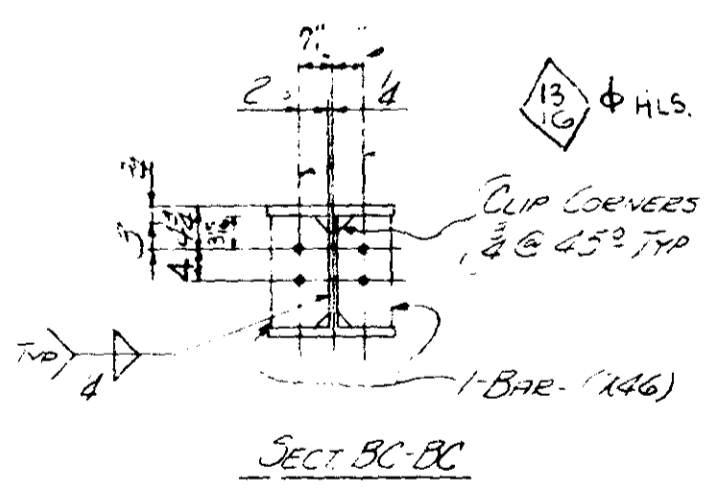
SECT. A-A



SECT. BA-BA



SECT. Y-Y



SECT. BC-BC

MICRO-FILMED

ALLIED STRUCTURAL STEEL COMPANY
 1212 15TH STREET, BLOOMINGTON, INDIANA 47403

DETAILS OF
 STRUCTURE: Floor Teuss @ U26
 BRIDGE No 9340
 LOCATION: MINNEAPOLIS, MINN.
 OWNER: MINN. STATE HWY DEPT.
 CUSTOMER: MINN. STATE HWY DEPT.

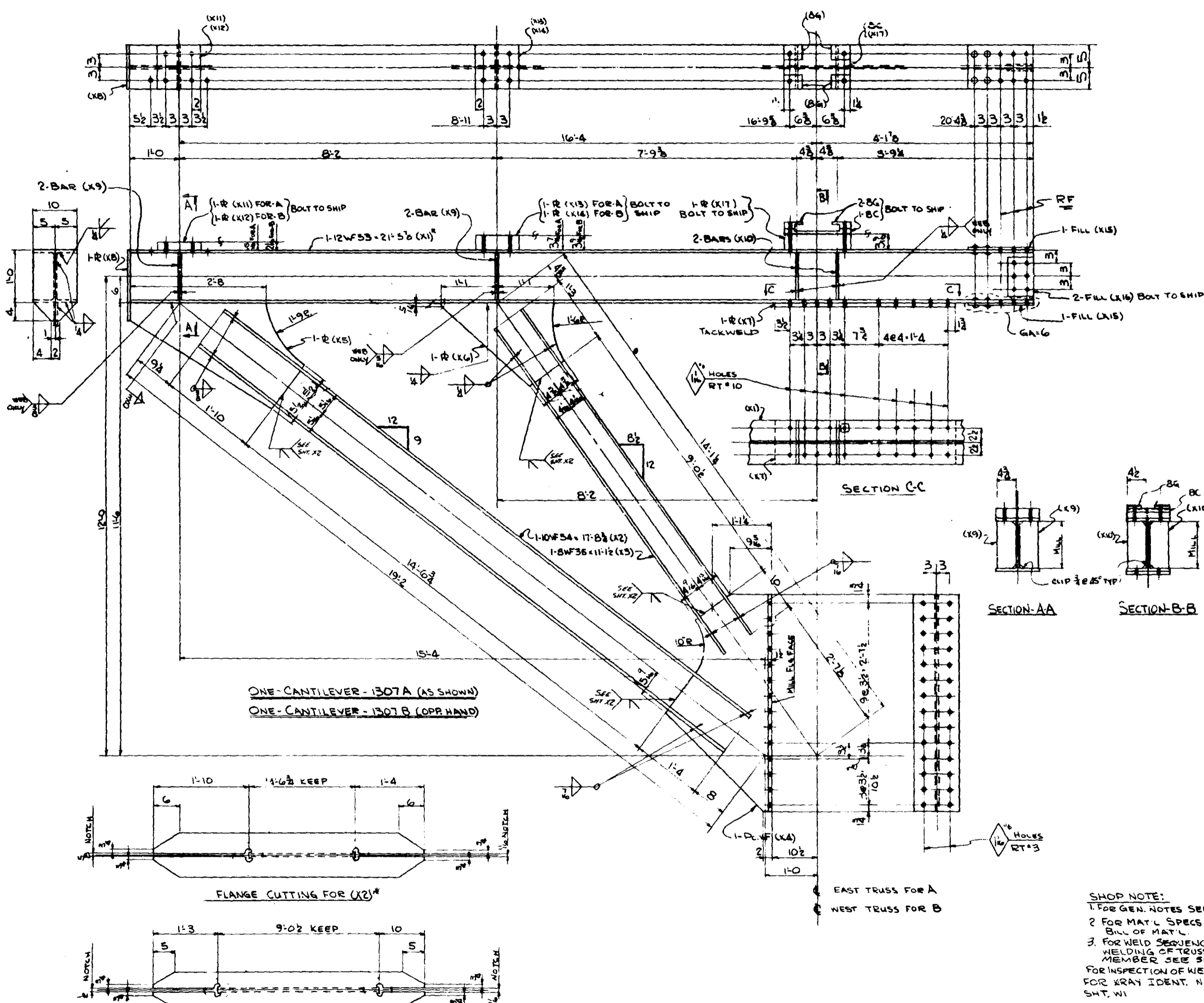
CONTRACT 3142 FABCOD 214 SHEET 1306 BC

MINN. HWY. No I-1635W-3 (58' 112)
 STATE FILE No 753-934018 (71' 25W)

DRAWN BY: FM DATE 2-17-65 CHECKED BY: H. L. K. DATE 2-17-65

REVISIONS	△	△	△	△

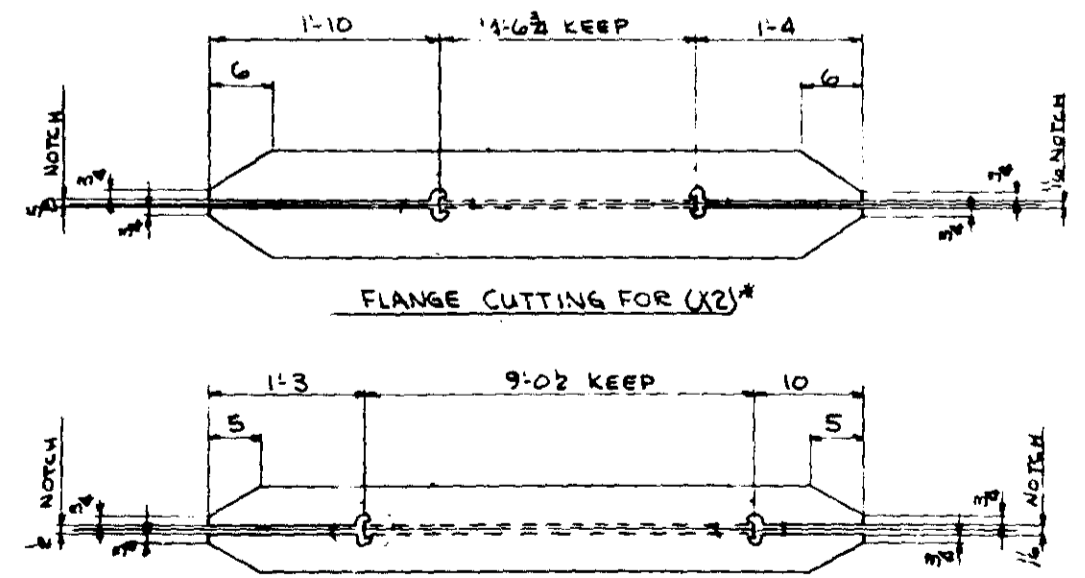
FROM THE CHICAGO



NO	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	QTY	TOTAL	WGT
1										
2										
3										
4	1307A	ONE	CANTILEVER	140'-2 1/2"	6	AS SHWN				
5	1307B	ONE	CANTILEVER	140'-2 1/2"	6	OPP HAND				
6										
7										
8										
9	2		12WF53	21'-5 1/2"	K12	FOR L	4507	39	2278	3306
10	2		10WF54	17'-0 3/4"	K2	FOR B	4520	1	1915	
11	2		8WF35	11'-1 1/2"	K3		4511		777	
12	2		R 30WF100	4'-1"	K4	M.F.G.	4402		882	
13	2		R 23 1/2 x 4 1/2	3'-4 1/2"	K5		4402		260	
14	2		R 19 x 5	2'-5 1/2"	K6		4402		119	
15	2		R 10 x 3 1/2	3'-5 1/2"	K7	UM	410		196	
16	2		R 10 x 3 1/2	1'-4"	K8		410		84	
17	2		BAR 4 x 1/2	0'-10 1/2"	K9	MZE	410		59	
18	2		BAR 4 x 1/2	0'-10 1/2"	K10	MZE	410		59	
19	1		R 10 x 1 1/2	0'-10"	K11	FIS FOR A	410		55	
20	1		R 10 x 2 1/4	0'-10"	K12	FIS FOR B	410		62	
21	1		R 10 x 3 1/4	0'-10"	K13	FIS FOR A	410		101	
22	1		R 10 x 3 1/4	0'-10"	K14	FIS FOR B	410		105	
23	4		FILL 10 x 1 1/2	1'-3"	K15		410		74	
24	4		FILL 10 x 1 1/2	0'-9"	K16		410		8	
25	2		R 10 x 3 1/2	1'-5 1/2"	K17	FIS	410	59	319	3306
26										
27	2		R		BC	SEE SHTS				
28	2		R		BC	SEE SHTS				
29										
30	2		WLD	0'-5 1/2"						NE
31	2		WLD	21'-0"						
32	2		WLD	3'-4"						
33	2		WLD	23'-0"						
34	2		WLD	16'-4"						
35	16		SB							
36	24		SB							
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DIV #13

ONE - CANTILEVER - 1307A (AS SHOWN)
ONE - CANTILEVER - 1307B (OPP HAND)



* SEE SHT. X1 & X2 FOR BEVEL CUTS FOR WELDING

SHOP NOTE:
1. FOR GEN. NOTES SEE GNI
2. FOR MAT'L SPECS SEE BILL OF MAT'L
3. FOR WELD SEQUENCE AND WELDING OF TRUSS WEB MEMBER SEE SHT X1 & X2
FOR INSPECTION OF WELD SEE SHT GNI
FOR KRAY IDENT. NO SEE SHT. W1

MINN. PROJ. NO. I 1635W-3(50)12
STATE PROJ. NO. 2783-93908(7435W-399)

DRAWN BY: [Signature] DATE: 2-27-66 CHECKED BY: GN DATE: []

REV	DESCRIPTION	DATE
1	REVISION	2-13-67

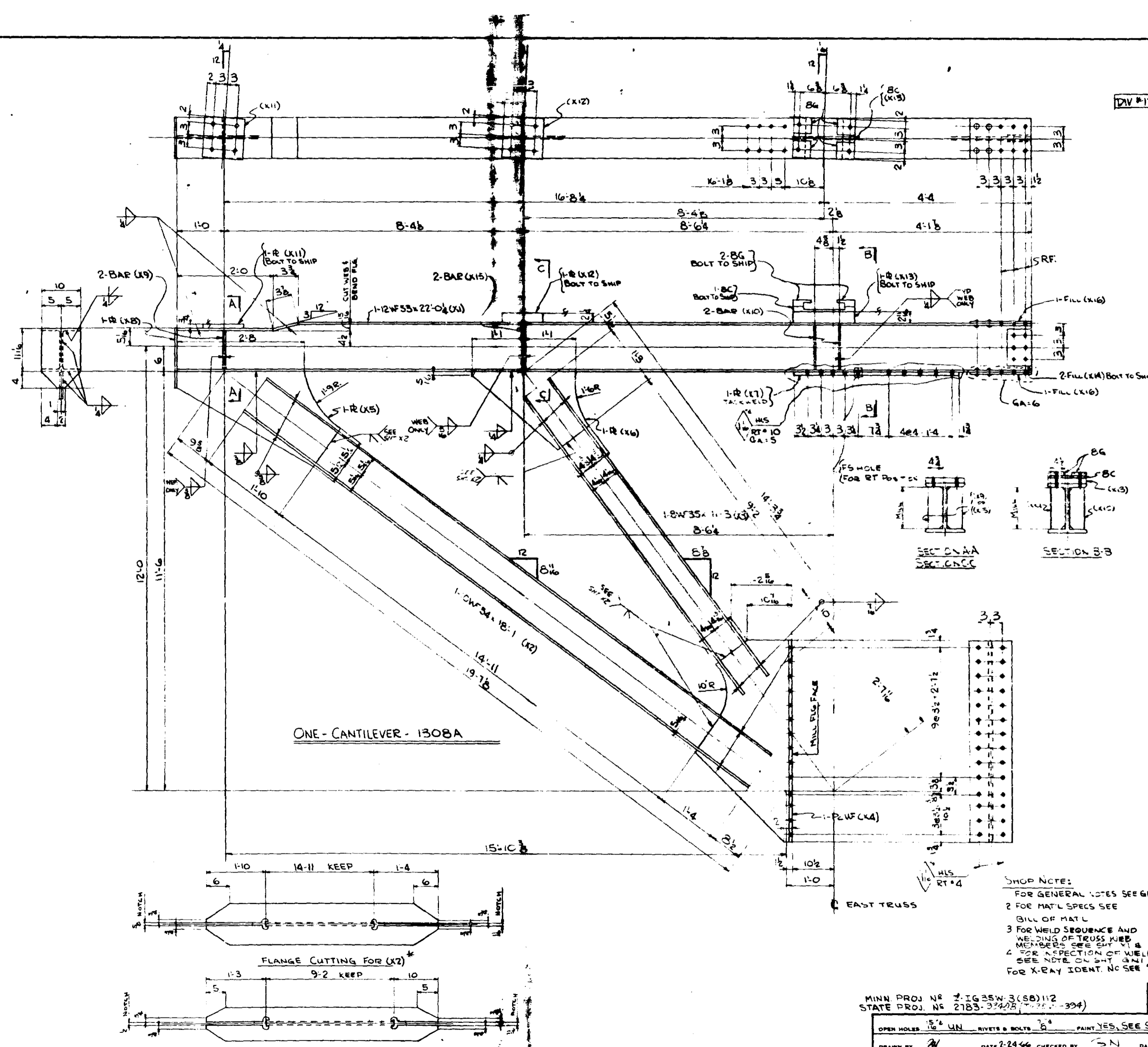
ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS Erectors

DETAILS OF: CANTILEVER @ FT 25
BRIDGE NO. 9340

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

CONTRACT 3142 FABCOD 244 SHEET 1307

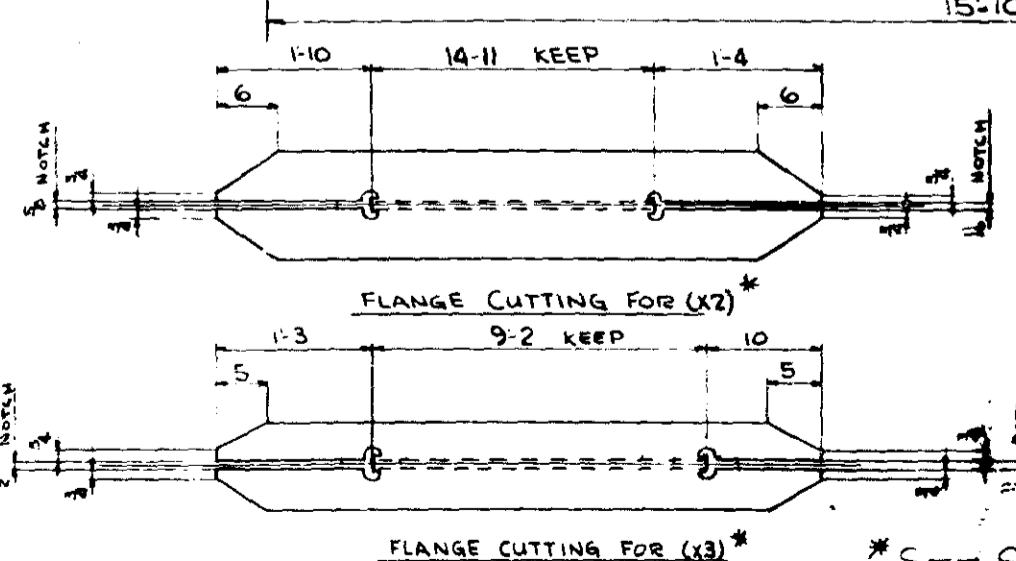
MICRO-FILMED



B-7⁸ R.V. X
22 LG.

#	SHIP NO.	NO.	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	BID ITEM	TOTAL WEIGHT
1									
2									
3									
4	1308A	ONE	CANTILEVER	116'-23'-0"					
5									
6									
7									
8									
9	1	12WF53		22'-0"	X1		59	1167	3300
10	1	10WF54		18'-1"	X2		438	1	977
11	1	8WF35		11'-3"	X3		156	1	394
12	1	1E30WF108		4'-1"	M.F.L.		100	1	441
13	1	1E238		3'-5"	X5		100	1	134
14	1	1E19		2'-4"	X6		100	1	58
15	1	1E10		3'-5"	X7	UM	100	1	88
16	1	1R		0'-1"	X8		100	1	16
17	2	BAR 4 1/2"		0'-9"	X9	MZE	100	1	13
18	4	BAR 4 1/2"		0'-10"	X10	MZE	100	1	28
19	1	1R		0'-1"	X11	F.S.	100	1	25
20	1	1R		0'-2"	X12	F.S.	100	1	61
21	1	1R		0'-2"	X13	F.S.	100	1	22
22	2	FILL 6x6		0'-9"	X14		100	1	4
23	2	BAR 4 1/2"		0'-10"	X15	MZE	100	1	18
24	2	FILL 10x10		1'-3"	X16		59	37	3300
25									
26									
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BIO ITEM 59 = 3586



* SEE SH. X1 & X2 FOR BEVEL CUTS FOR WELDING

MINN PROJ. NO. 2-IG35W-3(SB)112
STATE PROJ. NO. 2183-3728 (7-25-394)

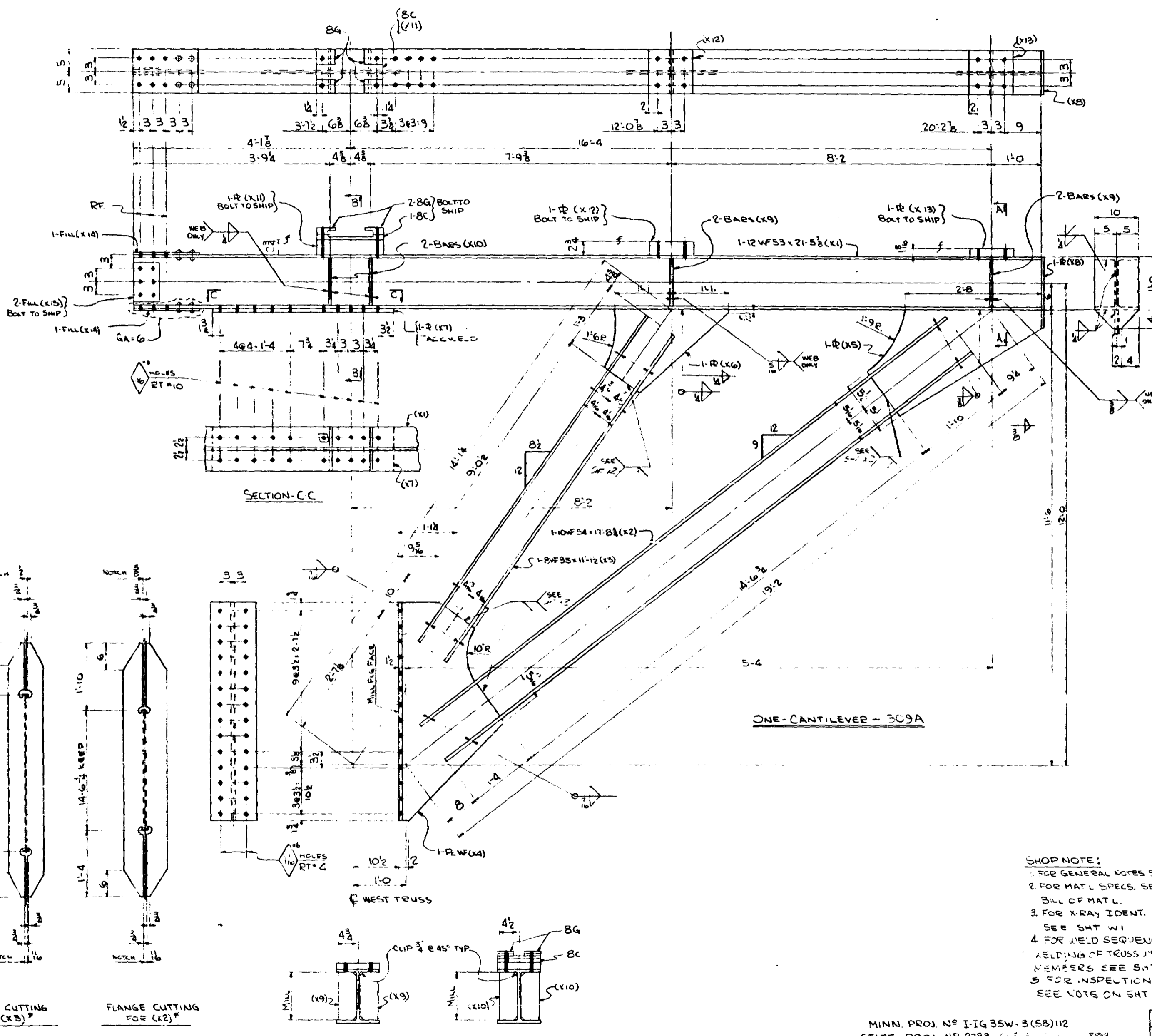
OPEN HOLES 1/2" UN. RIVETS & BOLTS 3/8" PAINT YES, SEE SH. G11
DRAWN BY: [Signature] DATE: 2-24-66 CHECKED BY: [Signature] DATE: []

REF. EIS REVISIONS: [] [] [] [] [] [] [] [] [] []

ALLIED STRUCTURAL STEEL COMPANY
 1111 15TH STREET, BARRINGTON, ILLINOIS 60015

DETAILS OF: **CANTILEVER @ U26 EAST**
 STRUCTURE: **BRIDGE NO. 9340**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA STATE HWY DEPT.**
 CUSTOMER: **MINNESOTA STATE HWY DEPT.**

CONTRACT: **3142** FABCOD: **244** SHEET: **1308**



LINE NO.	SHIP NO.	NO. REQ.	SHAPE	LENGTH	PC NO.	REMARKS	ITEM NO.	BID ITEM	TOTAL WEIGHT	WLD. CENTS
1										
2										
3										
4	1309A	ONE	CANTILEVER (148 x 21'-6)							
5										
6										
7										
8										
9		1	12WF53	21.56	K1		MS01	59	1139	3306
10		1	10WF54	17.83	K2		MS20		957	
11		1	8WF35	11.12	X3		MS17		389	
12		1	PL 30WF10B	4.1	X4	MFL6	MS02		491	
13		1	R 23 1/2 x 2	2.42	X5		MS08		139	
14		1	R 19 x 3	2.52	X6		MS09		60	
15		1	R 10 x 3	3.52	X7	LM	MS05		88	
16		1	R 10 x 3	1.4	X8		MS10		7	
17		4	BAR 4 1/2 x 2	0.108	X9	MZE	MS10		29	
18		4	BAR 4 1/2 x 2	0.108	X10	MZE	MS10		28	
19		1	R 10 x 2 1/2	1.34	X11	F15	MS17		124	
20		1	R 10 x 2 1/2	0.10	X12	F15	MS19		82	
21		1	R 10 x 1 1/2	0.10	X13	F15	MS10		41	
22		2	FILL 10 x 10	1.3	X14		MS12		37	
23		2	FILL 6 x 6	0.9	X15		MS20	59	4	3306
24										
25										
26		1	R			PC				
27		4	R			8C				
28										
29		1	WLD	0.52						NC
30		1	WLD	21.0						
31		1	WLD	3.4						
32		1	WLD	23.0						
33		1	WLD	16.4						
34		8	RIN							
35		10	SB							
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SHOP NOTE:
 1. FOR GENERAL NOTES SEE GNI
 2. FOR MATL. SPECS. SEE BILL OF MATL.
 3. FOR X-RAY IDENT. NS
 4. FOR WELD SEQUENCE & WELDING OF TRUSS JOBS MEMBERS SEE SHT X1 & X2
 5. FOR INSPECTION OF WELDS SEE NOTE ON SHT GNI

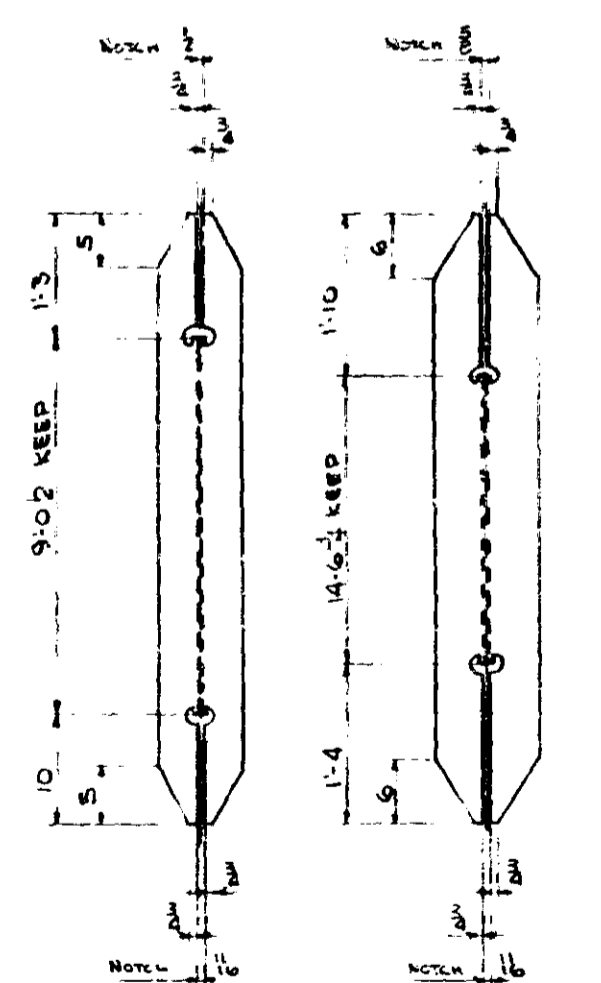
ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS
 1015 10TH STREET, MINNEAPOLIS, MINN. 55404

MINN. PROJ. NO. I-IG 35W-3(58)112
 STATE PROJ. NO. 2783

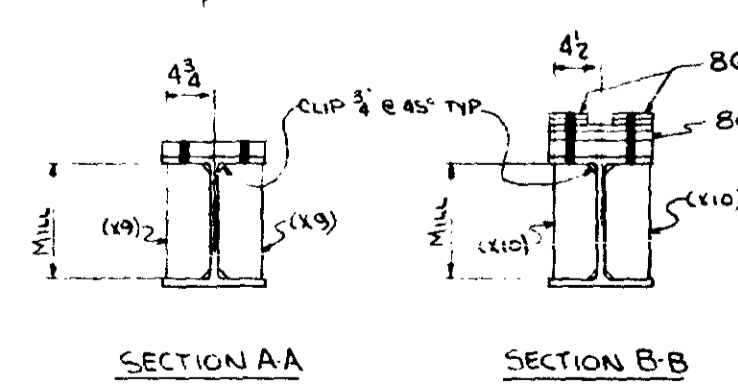
DIVISION # 13
 STRUCTURE: CANTILEVER E U26 WEST
 BRIDGE # 9340

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

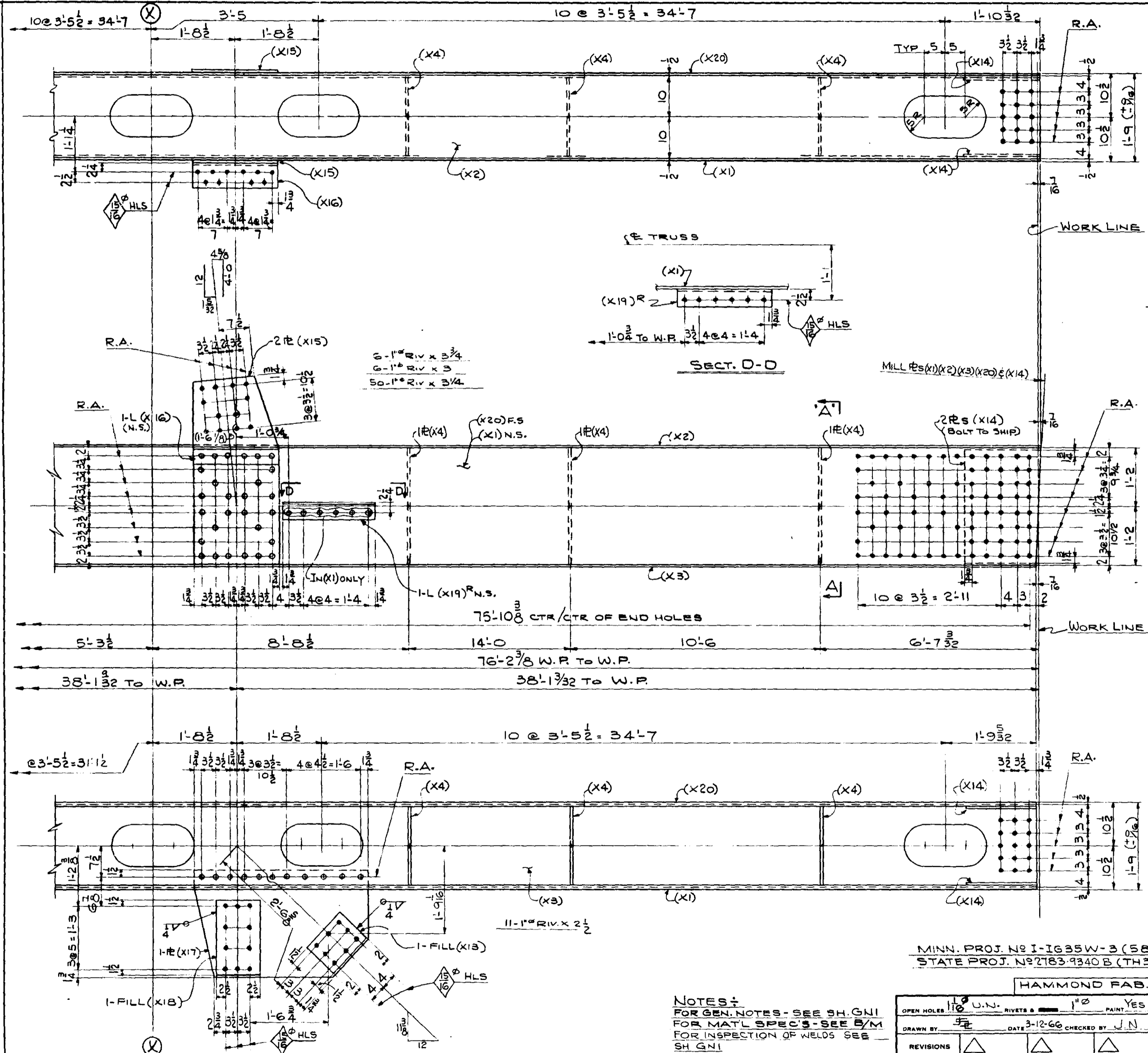
CONTRACT 3142 FABCOD 244 SHEET 1309



FLANGE CUTTING FOR (X1)*
 FLANGE CUTTING FOR (X2)*
 * SEE SHTS X1 & X2 FOR BEVEL CUTS FOR WELDING



SECTION AA SECTION B-B



LINE NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT	WGT PER SPCC
1								
2								
3		ONE LOWER CHORD - 1510	(L25-L23)E (AS SHOWN)					
4		ONE LOWER CHORD - 1510	(L25-L23)W (OPP. HAND)					
5								
6	2	# 28 x 15/16	76 3/8	X1	M.2E	1809	59	13615
7	2	# 20 x 1/2	76 3/8	X2	M.2E	1810	59	5187
8	2	# 20 x 1/2	76 1/8	X3	M.2E	1810	59	5274
9	12	# 19 5/8 x 3/8	2 4	X4		1825	59	2853
10	4	# 57 1/2 x 1/2	7 3/4	X5		1811	59	2853
11	4	# 15 x 1/2	2 3/4	X6		1812	59	237
12	2	# 19 x 3/8	1 2	X7	U.M.-BENT	1816	59	57
13	2	# 14 1/4 x 1/2	1 2	X8	U.M.-BENT	1815	59	57
14	2	L 6 x 4 x 3/8	1 10 1/2	X9	BENT	1813	59	96
15	2	L 4 x 4 x 3/8	1 9	X10		1814	59	38
16	2	# 26 3/8 x 3/8	3 3/4	X11	BENT	1817	59	220
17	2	DRY FILL 12 x 1/2	1 6	X12		1823	59	115
18	4	FILL 9 x 1/2	1 0	X13		1820	59	61
19	4	# 27 1/2 x 3/8	1 6 3/4	X14	M.1E	1822	59	213
20	4	# 21 x 1/2	3 9	X15		1821	59	536
21	2	L 6 x 4 x 3/8	1 9	X16		1813	59	93
22	2	# 25 1/8 x 3/8	3 6 1/2	X17		1817	59	217
23	2	FILL 12 x 1/2	1 6	X18		1824	59	61
24	2	L 4 x 4 x 3/8	1 11	X19		1814	59	38
25	2	# 28 x 15/16	76 3/8	X20	M.2E	1809	59	13615
26								
27								
28	2	5/16 WLD	305	G				NC
29	2	1/4 WLD	39	P				
30								
31		408 #1 RIV.						
32								
33		12 S.B.						
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54		BID ITEM	59 =			43074		
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MINN. PROJ. NO I-1635W-3(58)112
 STATE PROJ. NO 2783-9340 B (TH35W:394)

HAMMOND FAB. DIV-13

OPEN HOLES: 1/8" U.N. RIVETS & 1" PAINT YES SEE SH.GNI
 DRAWN BY: [Signature] DATE: 3-12-66 CHECKED BY: J.N. DATE: 3/18/66

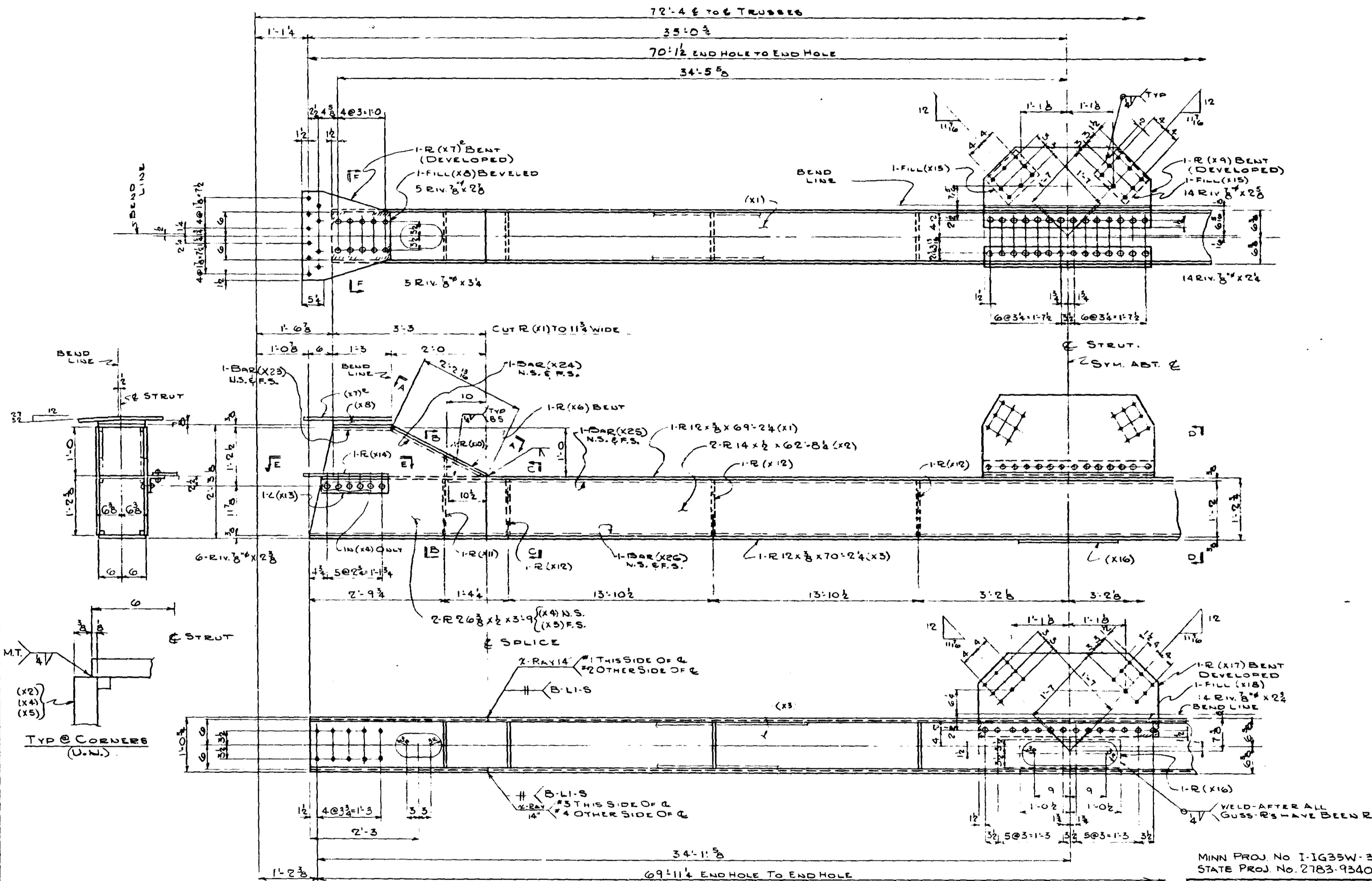
NOTES:
 FOR GEN. NOTES - SEE SH.GNI
 FOR MATL SPEC'S - SEE B/M
 FOR INSPECTION OF WELDS SEE SH.GNI

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1115 11TH STREET, MINNEAPOLIS, MINN. 55404

DETAILS OF LOWER CHORD (L25-L23)
 BRIDGE NO 9340
 STRUCTURE: MINNEAPOLIS, MINNESOTA
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY DEPT.
 CUSTOMER: MINNESOTA STATE HWY DEPT.

CONTRACT 3142 FABCOD 215 SHEET 310B

MICRO-FRAMED



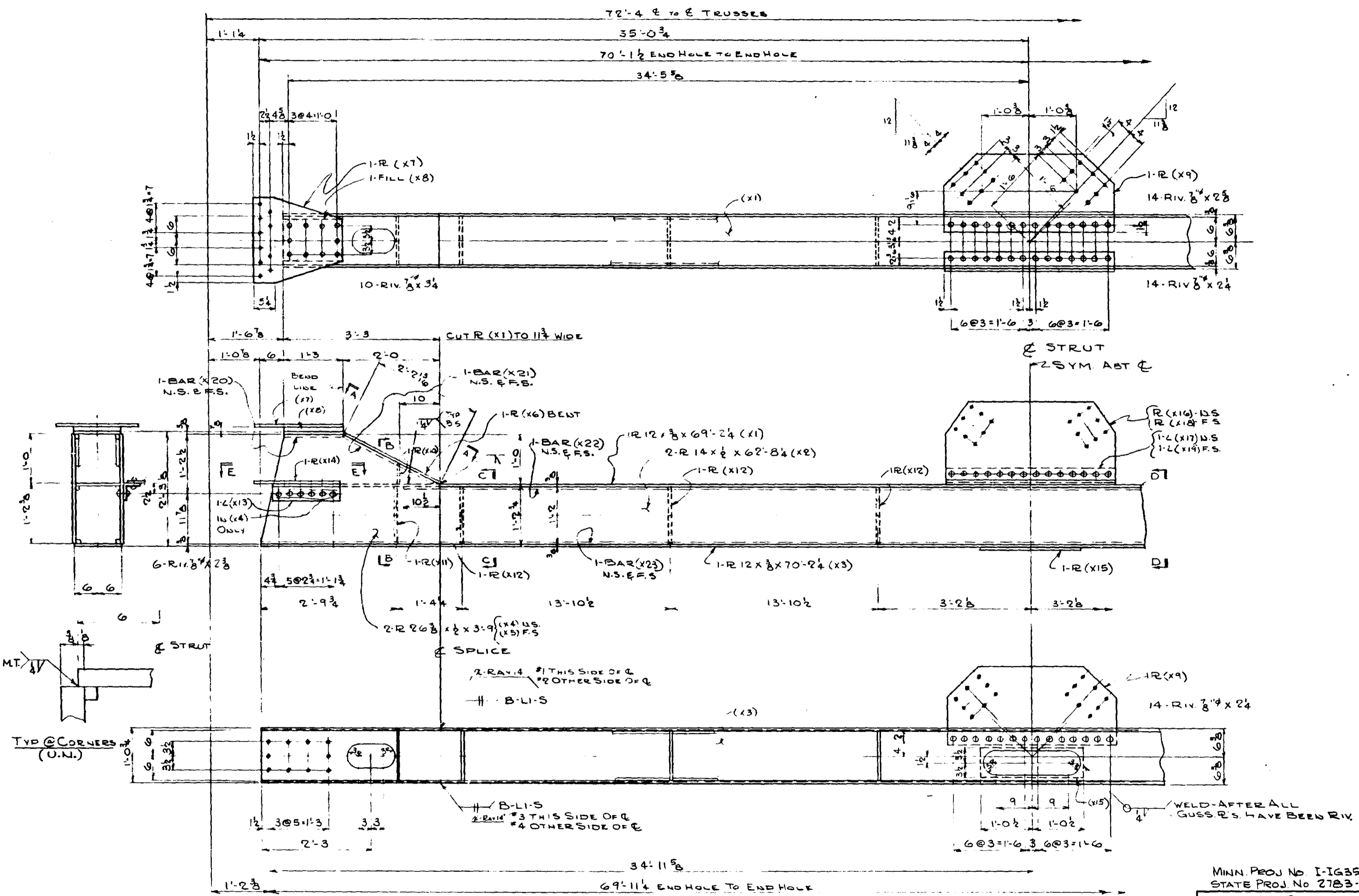
MICRO-FILMED

MINN PROJ No I-1635W-3(SB)112
 STATE PROJ No. 2783-9340B (TH35WF 394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1212 15TH STREET, HARMON, ILLINOIS 60420

ONE-STRUT-1312A

REVISIONS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	DRAWN BY <i>J.N.</i> DATE 3-18-66 CHECKED BY <i>J.N.</i> DATE 3-21-66 IN CHARGE OF <i>JOHN NEWELL</i> FAB PLANT <i>HAMMOND</i> REFERENCE DWGS <i>E15</i>	DETAILS OF BOTTOM STRUT @ L25 STRUCTURE BRIDGE N° 9340 LOCATION MINNEAPOLIS, MINNESOTA OWNER MINNESOTA STATE HWY. DEPT.		
	CONTRACT 3142	DIV. 13	FAB. CODE 264	SHEET 1312AB



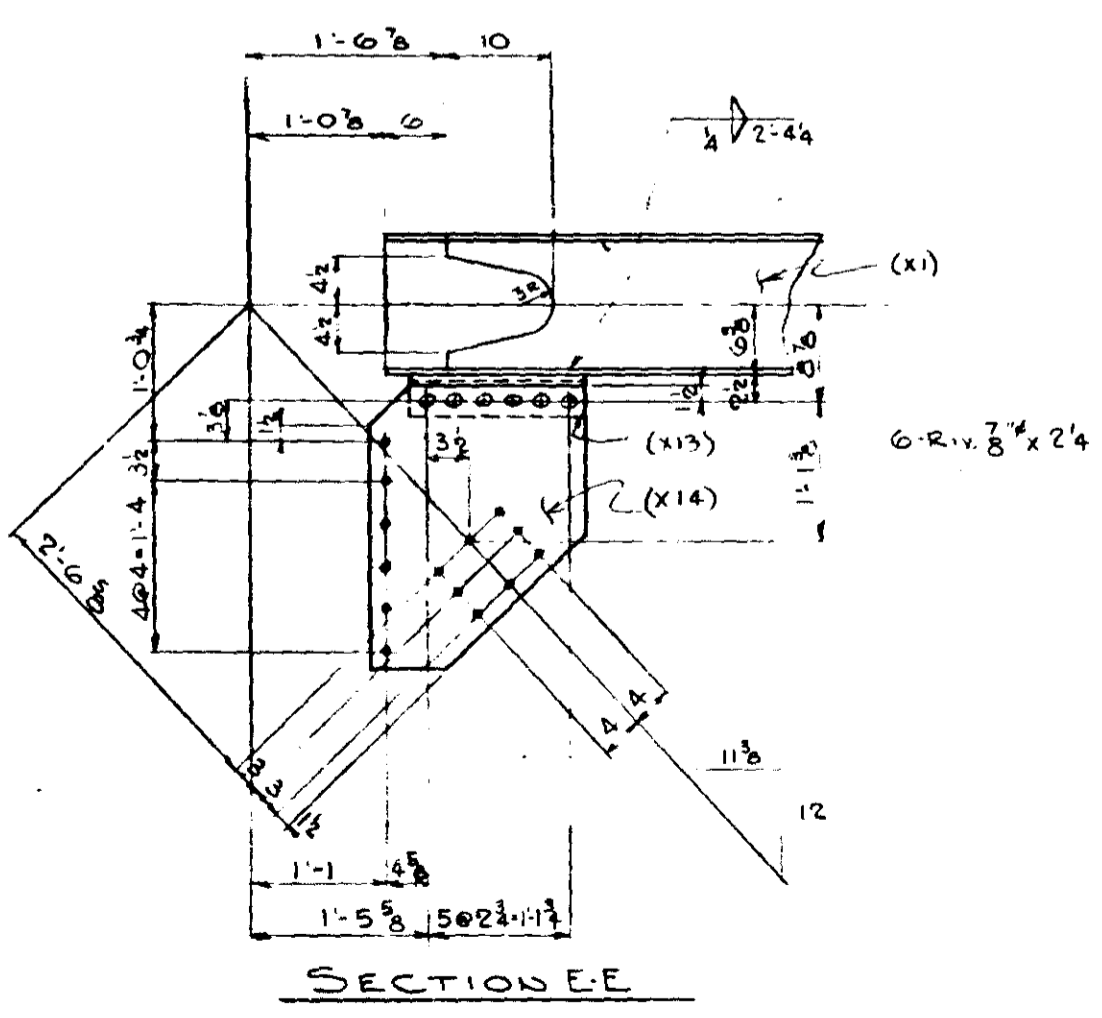
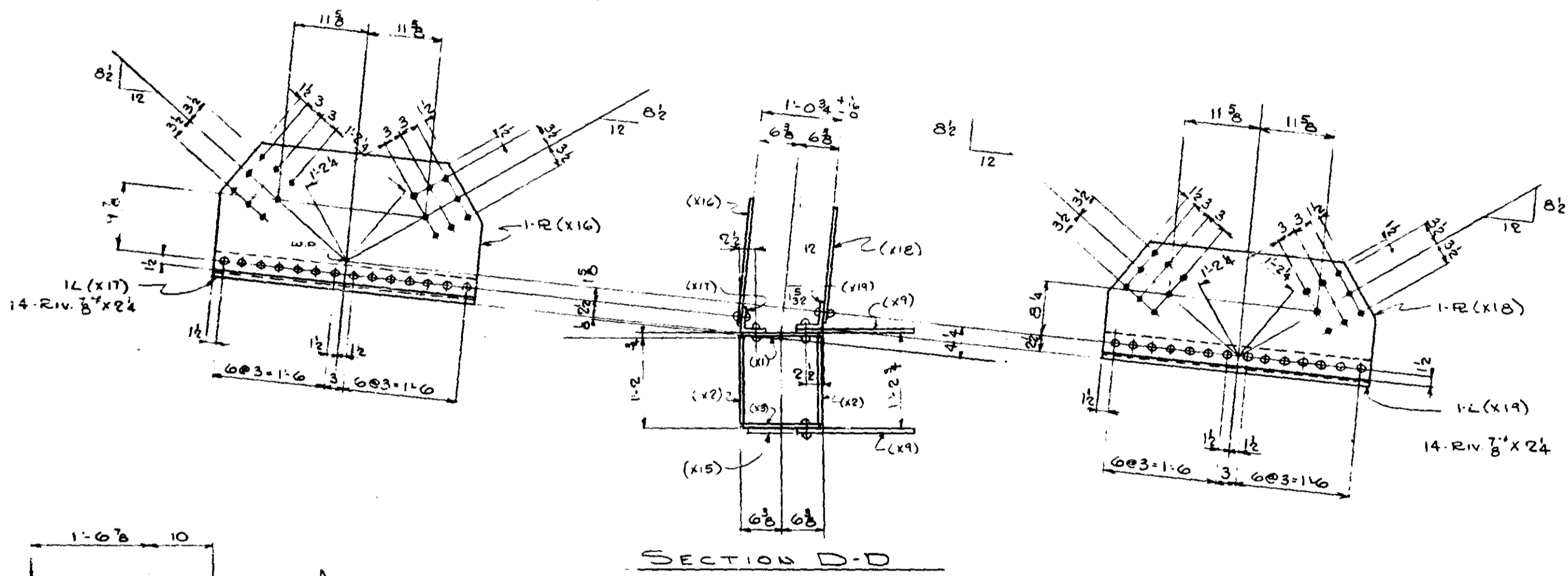
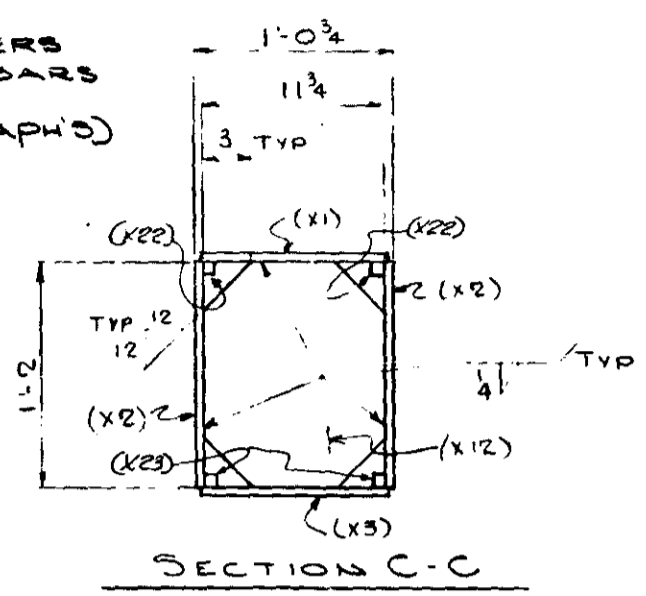
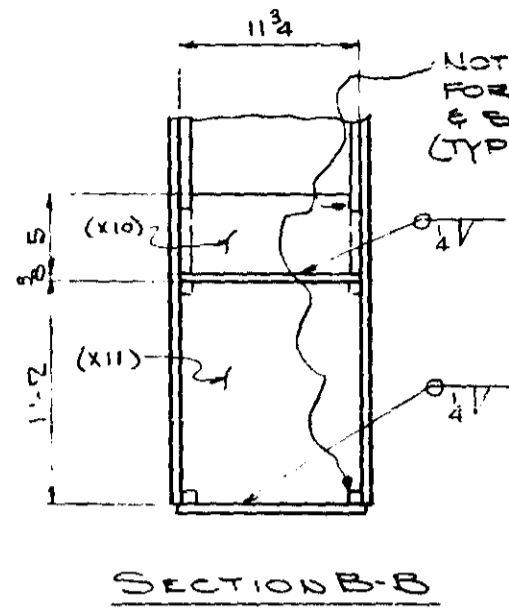
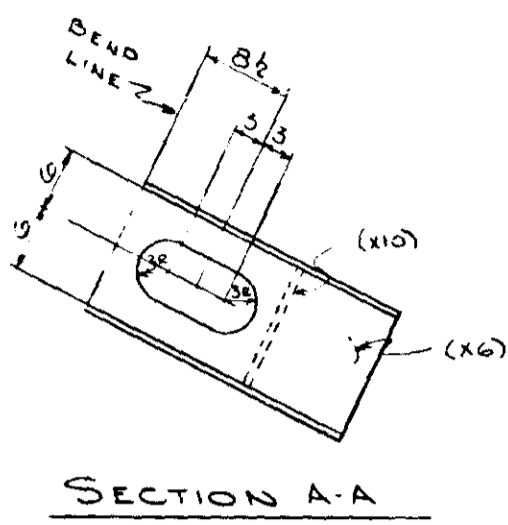
ONE-STRUT-133A

MICRO-FILMED

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

ALLIED ENGINEERS FABRICATORS ERECTORS	STRUCTURAL STEEL COMPANY <small>1425 13TH STREET, ST. LOUIS, MISSOURI 63103</small>	
	DETAILS OF BOTTOM STRUT @ L24	
	STRUCTURE BRIDGEN # 9340	
	LOCATION MINNEAPOLIS, MINNESOTA	
	OWNER MINNESOTA STATE HWY. DEPT.	
CONTRACT 3142	DIV. 13	FABCOO 264
SHEET 1313AB		

REVISIONS 11-11-66	DRAWN BY <i>Ma</i> DATE 3-14-66 CHECKED BY <i>JN</i> DATE 3-21-66 IN CHARGE OF JOHN NEWELL FAB. PLANT HAMMOND REFERENCE DWGS. E15
	WELD-AFTER ALL GUSSET S. HAVE BEEN RIV.
	6 @ 3 = 1-6 3 @ 3 = 1-6
	1-0 2 1-0 2
	9 9 (15)



SHOPNOTE:
 FOR GEN. NOTES SEE
 G-1
 FOR MATL. SPECS.
 SEE BILL OF MATL.
 FOR INSPECTION OF WELDS SEE SH-11

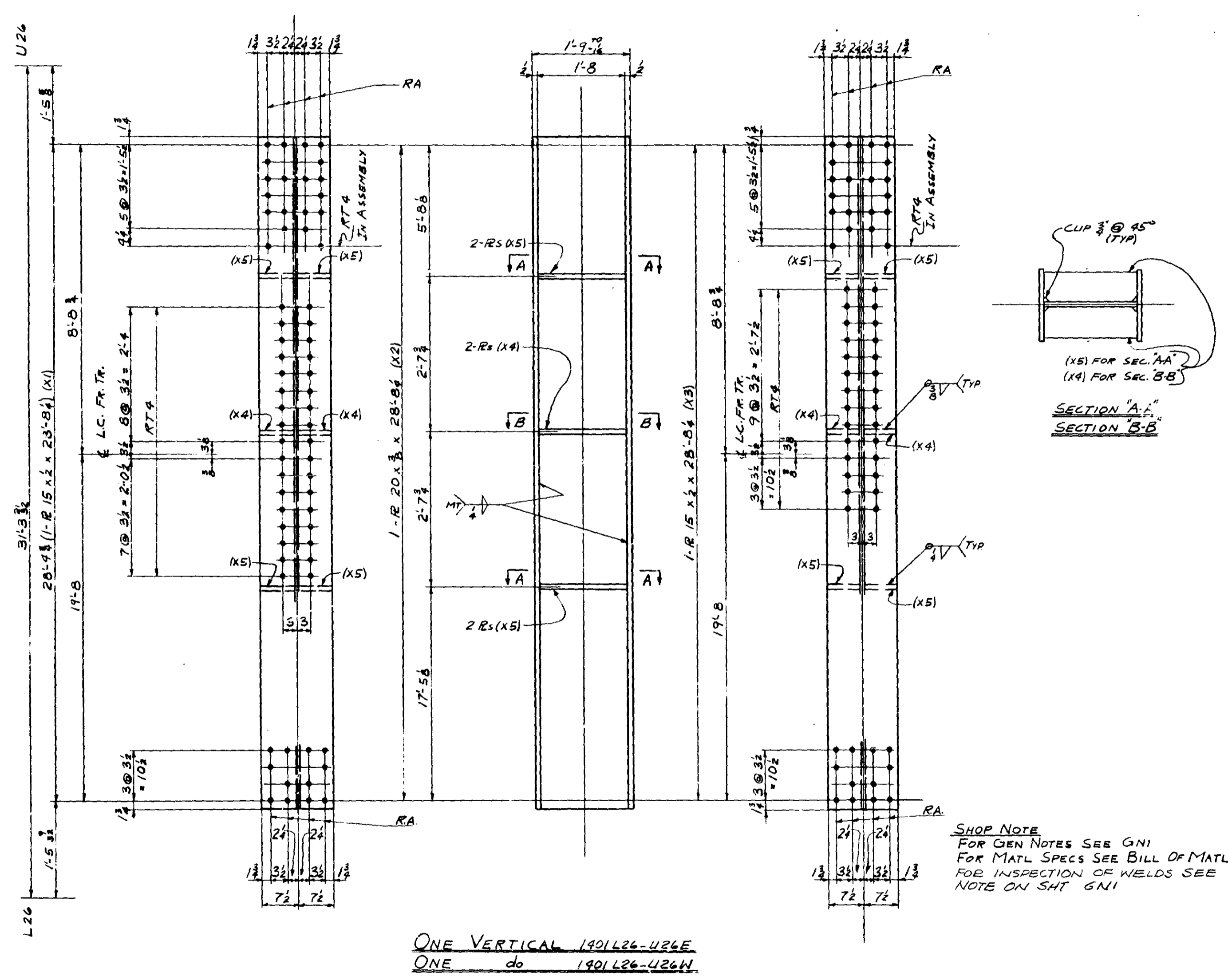
DIV. 13
 HAMMOND FAB
 OPEN HOLES 15" φ
 RIVETS & BOLTS 7/8" φ
 PAINT: YES-SEE SUR-GNI
 DRAWN BY: [Signature] DATE: 3-14-66 CHECKED BY: J.N. DATE: 3-21-66

LINE	SHIP MK	NO. QTY	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO.	TOTAL WEIGHT	M.H.O. SPECS
1									
2									
3									
4	31A	ONE	BOTTOM STEEL	28 x 70'-0"					
5	1	R	12 x 3/8	69' 2 1/2"	X1		2104	59	1059
6	2	R	14 x 1/2	67' 8 1/2"	X2		2102		1984
7	1	R	12 x 3/8	70' 2 1/2"	X3		2101		1074
8	2	R	26 3/8 x 1/2	3' 9"	X4	T-CUTS 2	2103		314
9	2	R	26 3/8 x 1/2	3' 9"	X5	T-CUTS 2	2103		314
10	2	R	12 x 3/8	3' 6"	X6	BENT	2105		107
11	2	R	20 1/2 x 3/8	1' 10 1/2"	X7		2118		97
12	2	R	12 x 3/8	1' 3"	X8		2115		89
13	2	R	19 1/2 x 3/8	3' 6"	X9		2111		176
14	2	R	5 x 3/8	0' 11 1/2"	X10		2106		13
15	2	R	11 1/2 x 3/8	1' 2"	X11		2116		35
16	6	R	11 1/2 x 3/8	1' 2"	X12		2116		105
17	2	L	4 x 4 x 3/8	1' 4 1/2"	X13		2114		27
18	2	R	2 1/2 x 3/8	2' 2 1/2"	X14		2113		121
19	1	R	7 x 3/8	2' 1"	X15		2114		19
20	1	R	19 1/2 x 3/8	3' 6"	X16		2108		88
21	1	L	4 x 4 x 3/8	3' 6"	X17	BENT	2109		37
22	1	R	18 x 3/8	3' 6"	X18		2107		80
23	1	L	4 x 4 x 3/8	3' 6"	X19	BENT	2109	59	34
24									
25	114		3/8" RIV.						NC
26	1		F.W. 4	323' 0"					NC
27									
28									
29									
30									
31	2	BAR	3/8 x 3/8	1' 3"	X20			59	3306
32	2	BAR	3/8 x 3/8	2' 2"	X21				2
33	2	BAR	3/8 x 3/8	64' 5 1/2"	X22				62
34	2	BAR	3/8 x 3/8	70' 2 1/4"	X23				27
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1425 15TH STREET, HARBOR, MINNEAPOLIS, MINN.

DETAILS OF: **BOTTOM STEEL L24**
 STRUCTURE: **BRIDGE N29340**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA STATE HWY DEPT.**
 CUSTOMER: **MINNESOTA STATE HWY DEPT.**

CONTRACT: **3142** FABCOD: **264** SHEET: **1313B**



ONE VERTICAL 1401 L26-U26E
 ONE do 1401 L26-U26W

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

LINE NO.	SHIP NO.	NO. REQD.	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	BID NO.	TOTAL WEIGHT	UNIT
1										
2										
3										
4		ONE	VERTICAL	1401 L26-U26E			(21 x 28'-9)			
5		ONE	do	1401 L26-U26W			do			
6										
7	2	R 15 x 1/2		28'-8 1/2	X1	UM	2209	61	1463	3310
8	2	R 20 x 1/2		28'-8 1/2	X2		2210	61	1463	3310
9	2	R 15 x 1/2		28'-8 1/2	X3	UM	2209	61	1463	3310
10	4	R 7 x 1/2		18	X4		2211	59	119	3306
11	8	R 7 x 1/2		18	X5		2212	59	159	3306
12										
13	2	1/4 FW		125	1					NC
14	2	3/8 FW		5	2					NC
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ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS
 1425 10TH STREET, HAMMOND, INDIANA 46320

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

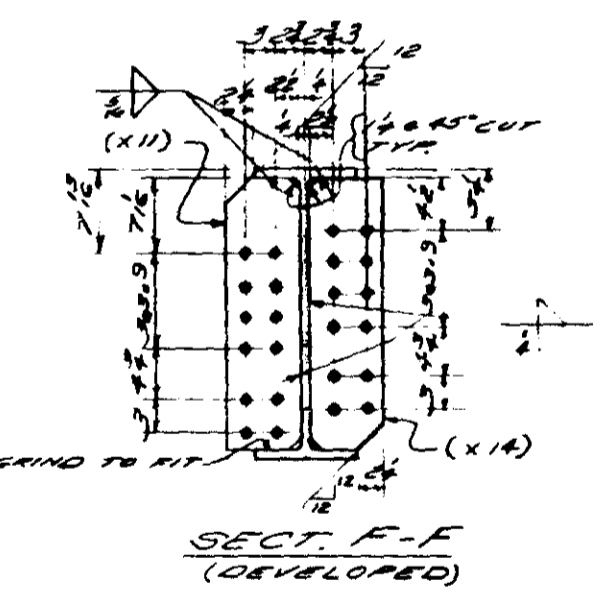
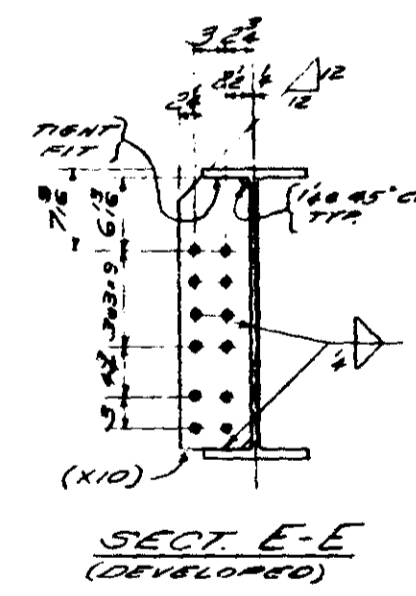
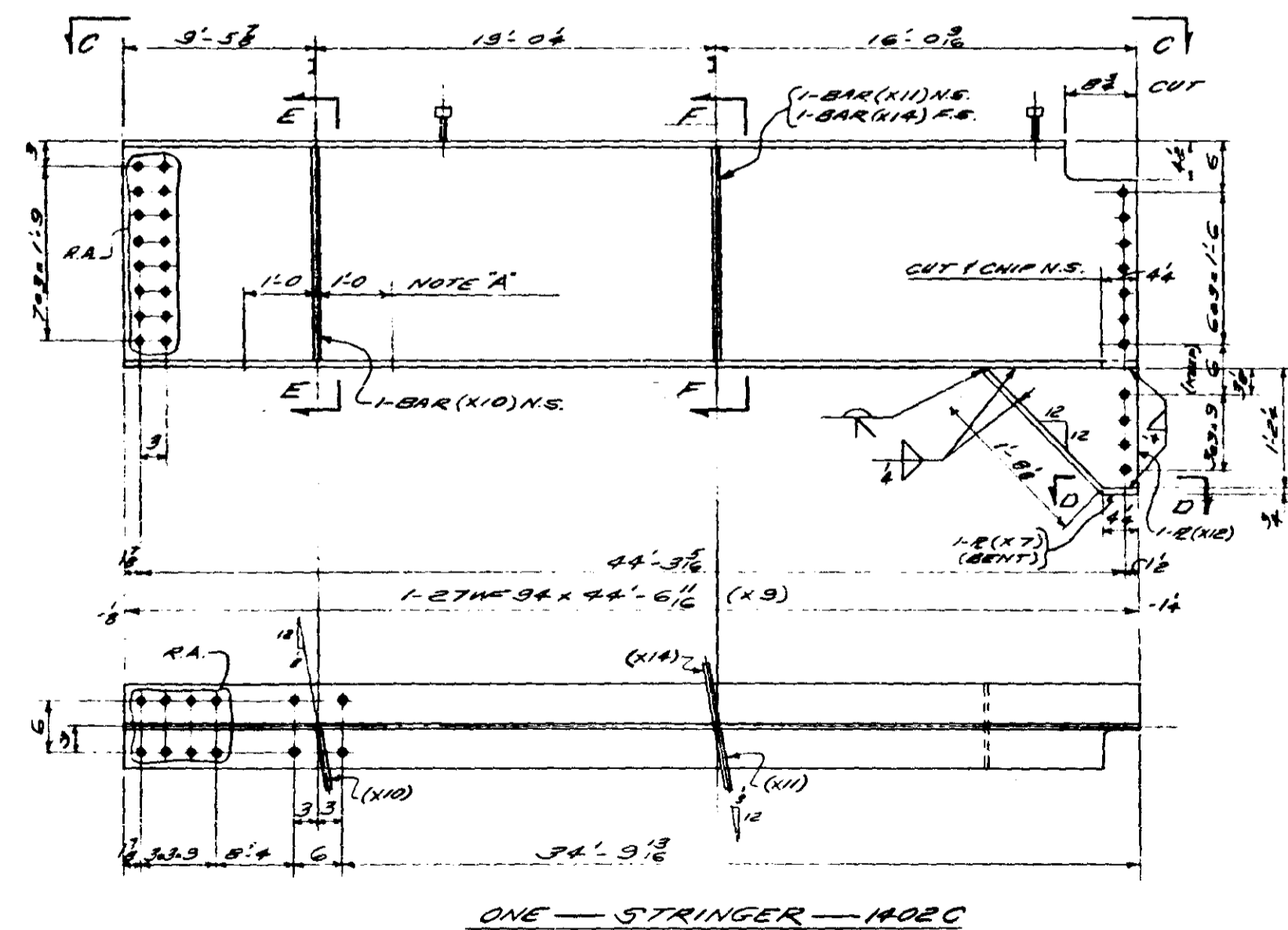
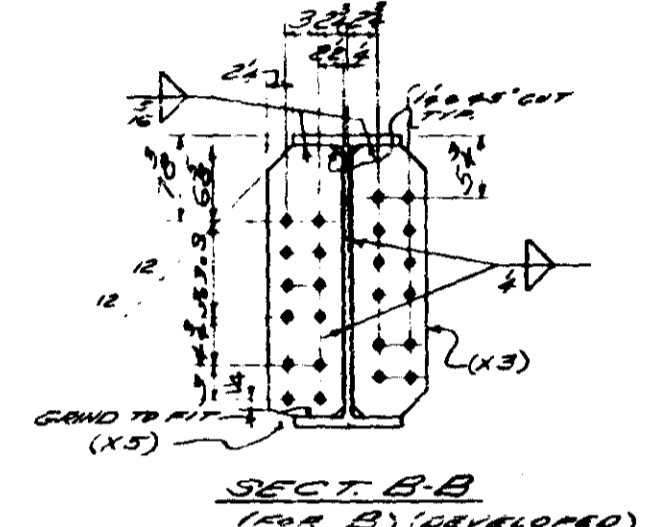
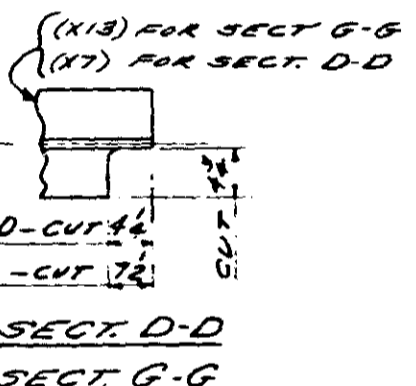
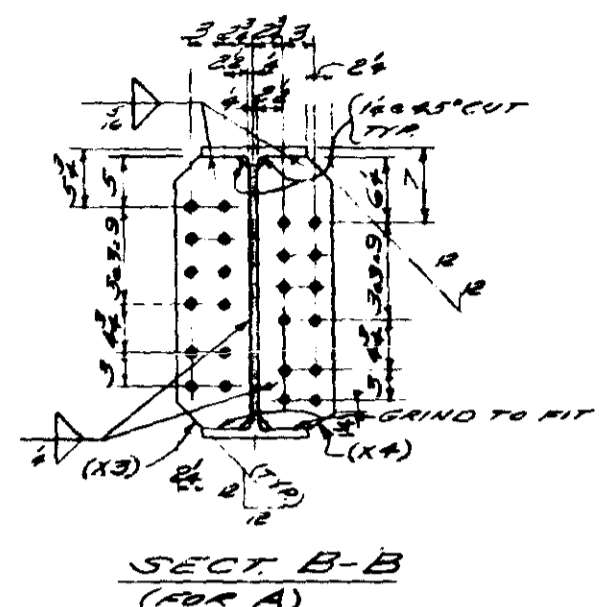
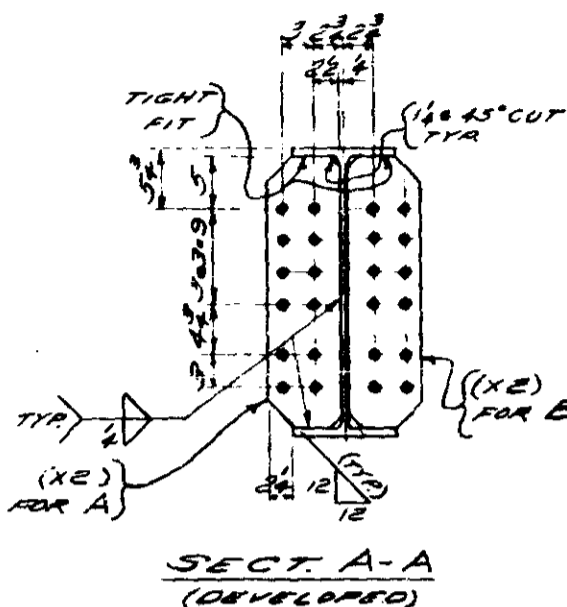
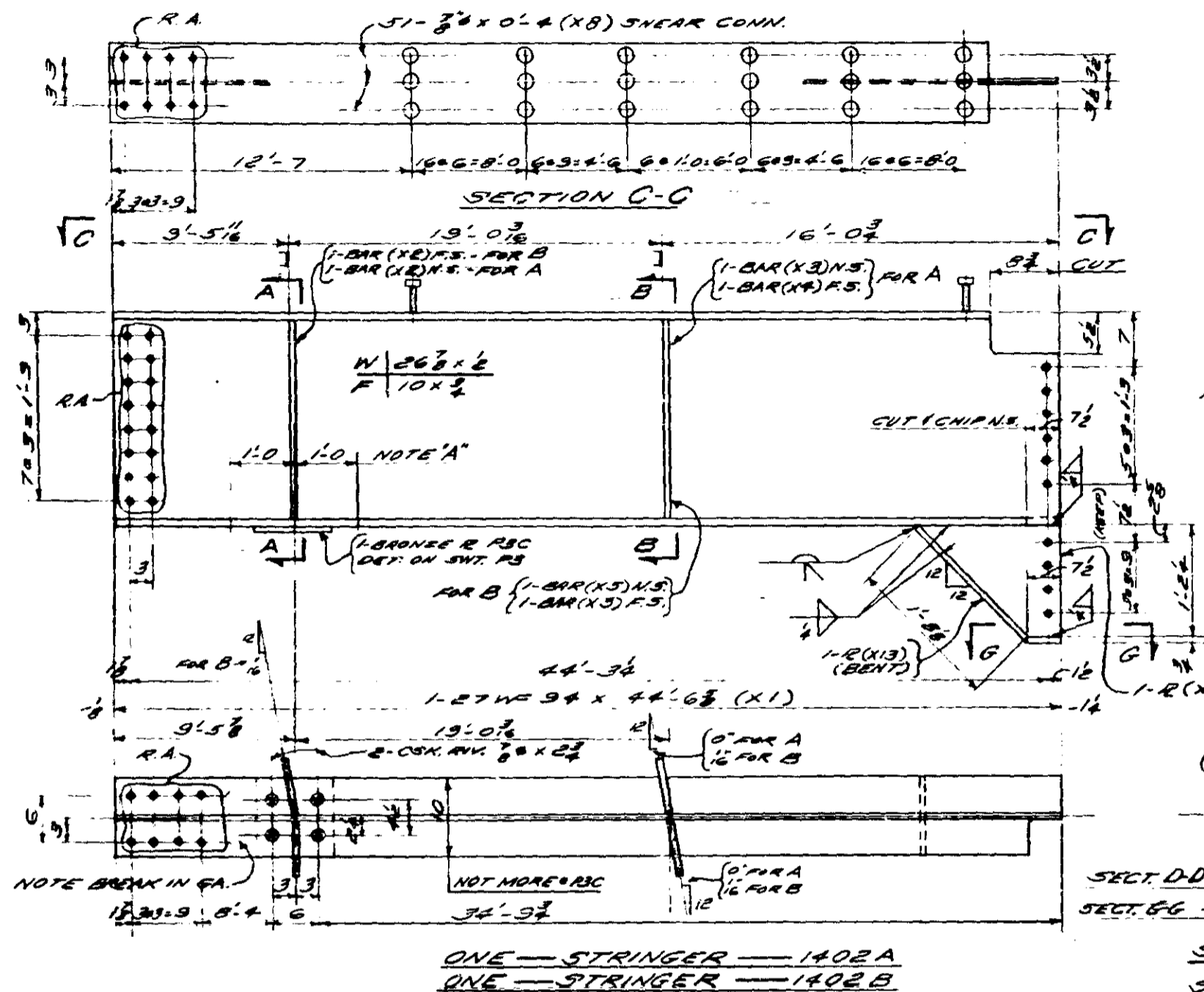
CONTRACT **3142** FABCOD **235** SHEET **1401**

HAMMOND FAB MINN. PROJ. No. J-IG 35 W-315B)112
 STATE PROJ. No. 2783-93403 (74 35 W 3 74)

OPEN HOLES **1 1/2"** RIVETS & BOLTS _____ PAINT **YES SEE SHT GNI**

DRAWN BY **M.J.P.** DATE **2-4-66** CHECKED BY **H.M.H.** DATE **4-27-66**

REVISIONS



NOTES:
FOR MAT'L SPEC SEE BILL OF MAT'L.
FOR GEN. NOTES SEE SHT. GN-1.
FOR INSPECTION OF WELDS SEE NOTE ON SHT. GN-1.

NOTE "A"
BOTT. FLG. TO BE 90° TO WEB
+ SUPP. FOR DISTANCE INDICATED.

MINN. PROJ. NO. I-1635W-3(58)112
STATE PROJ. NO. 2783-9340B (TX 35W-394)

DIVISION "14"
HAMMOND FAB.

OPEN HOLES 1/8" RIVETS 7/8" PAINT YES, SEE GN-1
DRAWN BY: XL DATE: 3-3-66 CHECKED BY: L.O. DATE: 3-25-66

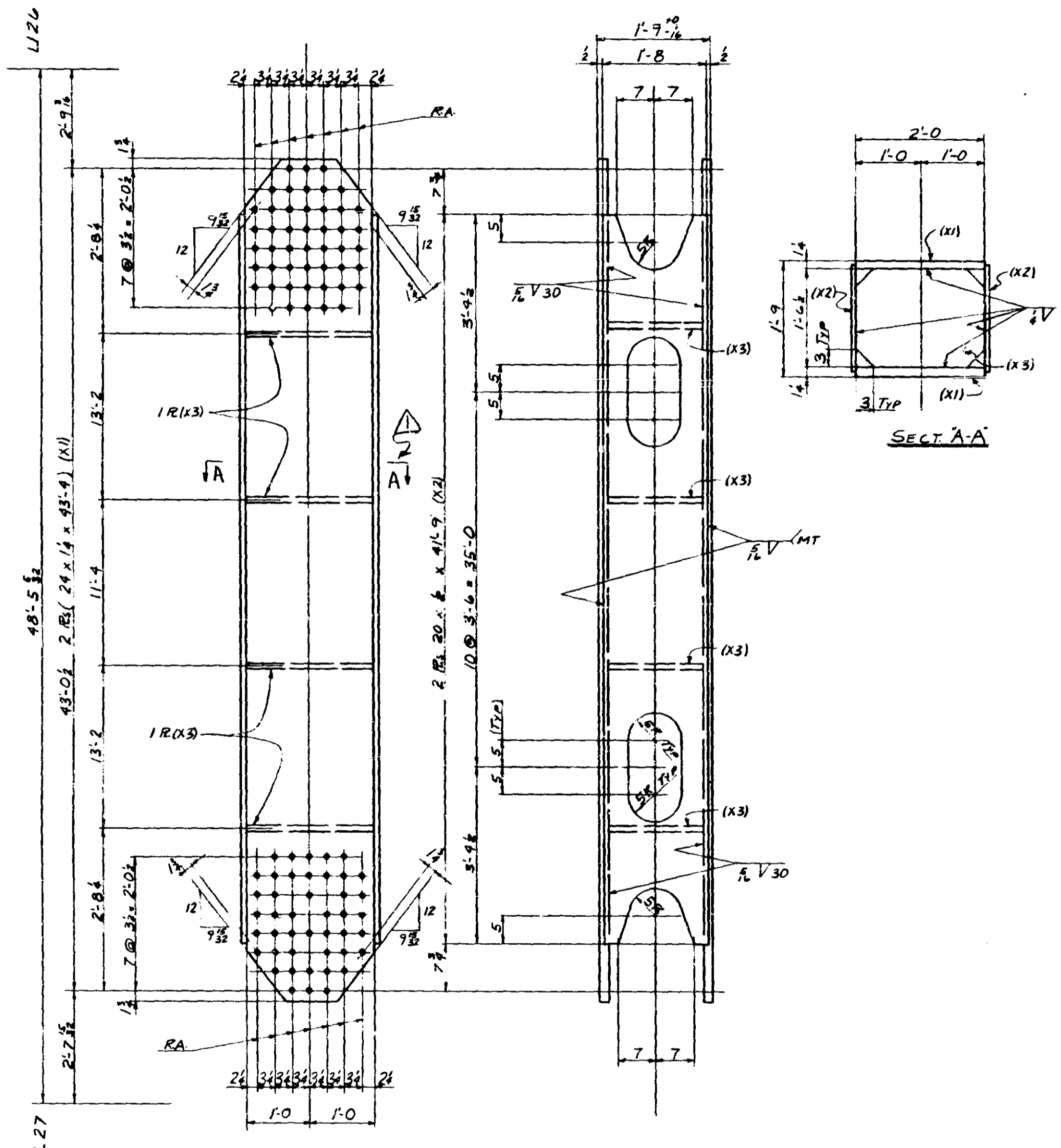
REVISIONS: 10/18/66

LINE	SNIP NO.	NO. MOD.	SHAPE	LENGTH	PC NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
1								
2								
3								
4	44A	ONE	STRINGER			(46'14 1/2")		
5	44B	ONE	STRINGER			(46'14 1/2")		
6	2		27WF 94	44'-6 1/8"	X1		7821	59
7	2		27WF 94	44'-6 1/8"	X1		7821	59
8	2		27WF 94	44'-6 1/8"	X1		7821	59
9	1		BAR 7/8"	2'-1 1/2"	X3		7820	38
10	1		BAR 7/8"	2'-1 1/2"	X3	FOR A	7820	38
11	1		BAR 7/8"	2'-1 1/2"	X3	FOR B	7820	38
12	2		R 10 x 3/8"	1'-0 1/2"	X6		7817	61
13	2		R 10 x 3/8"	1'-0 1/2"	X6	BENT	7816	117
14	306		SHEAR CONN.	0'-4"	X8	TYPE 35W	53	156
15	2		BRONZE R			DEF. BY 29		
16	0		CSK. RIV. 3/8"					NC
17	2		1/2" WLD.	1'-4"				NC
18	2		1/2" WLD.	18'-0"				NC
19								
20								
21								
22								
23								
24								
25								
26								
27								
28	44C	ONE	STRINGER			(46'14 1/2")		
29	1		27WF 94	44'-6 1/8"	X9		7821	59
30	1		BAR 7/8"	2'-1 1/2"	X3		7820	38
31	1		BAR 7/8"	2'-1 1/2"	X3		7820	38
32	1		BAR 7/8"	2'-1 1/2"	X3		7820	38
33	1		R 10 x 3/8"	1'-0 1/2"	X6		7817	61
34	1		R 10 x 3/8"	1'-0 1/2"	X6	BENT	7816	117
35	133		SHEAR CONN.	0'-4"	X8	TYPE 35W	53	156
36								
37								
38	1		1/2" WLD.	1'-4"				NC
39	1		1/2" WLD.	18'-0"				NC
40								
41								
42	MULTICUT WITH R (14) ON SHT. 14(19) (1-R 10 x 3/8" X 1'-0 1/2")							
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ALLIED STRUCTURAL STEEL COMPANY
1100 NEEDS PARKWAY
INDIANAPOLIS, INDIANA 46219

DETAILS OF: **STRINGERS — RR 127**
STRUCTURE: **BRIDGE NO. 3340**
LOCATION: **MINNEAPOLIS, MINNESOTA**
OWNER: **MINNESOTA STATE HWY. DEPT.**
CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT: **3142** FABCO: **274** SHEET: **1402**



SHOP NOTE
 FOR GEN NOTES SEE GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS SEE NOTE
 ON SHIT GN-1

LINE NO.	QTY	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3	ONE	DIAGONAL	1403 L27-U26E			(24 x 44'-0)	
4	ONE	do	1403 L27-U26W			(24 x 44'-0)	
5							
6							
7	4	R	24 x 14	43	4	X1	222 60 17680 3309
8	4	R	20 x 12	41	9	X2	222 61 5678 3310
9	8	R	18 x 8	2	0	X3	222 59 377 3306
10							
11							
12	2	3/4	FW	187	0		NC
13	2	3/4	FW	20	4		NC
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ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS

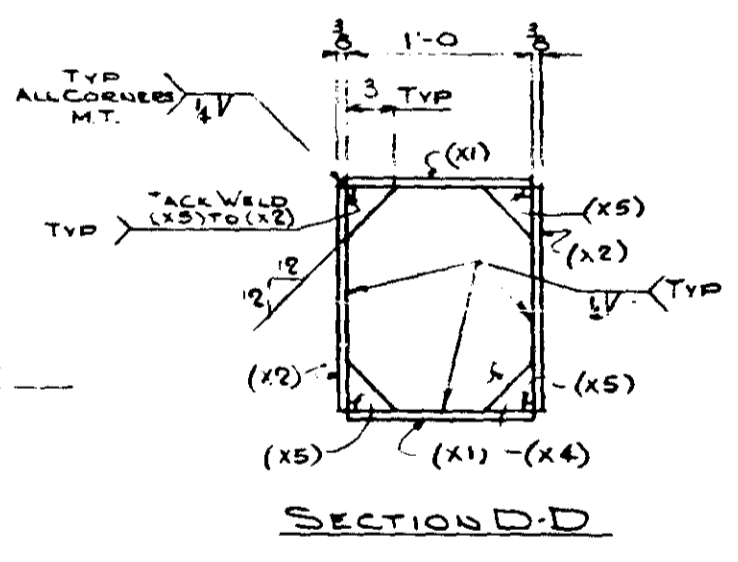
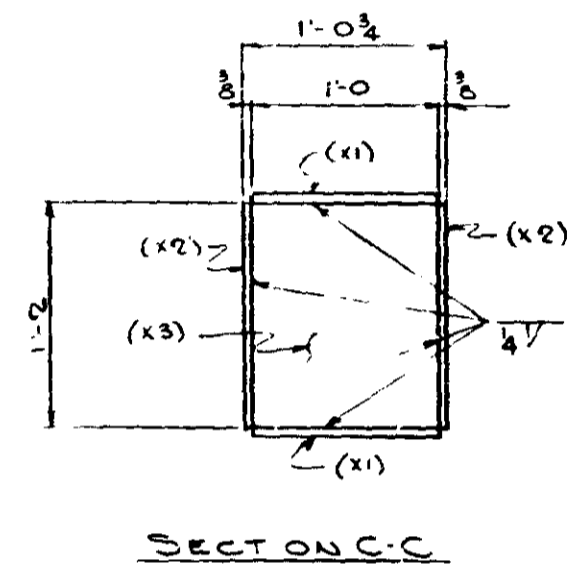
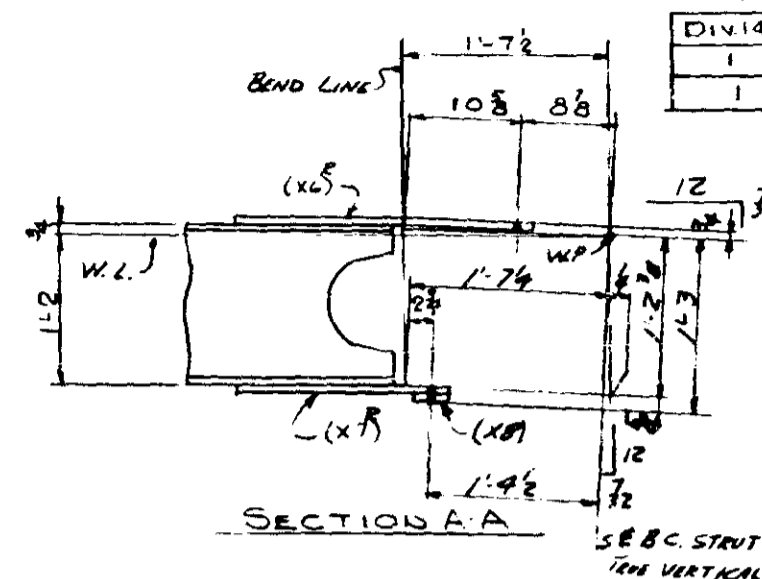
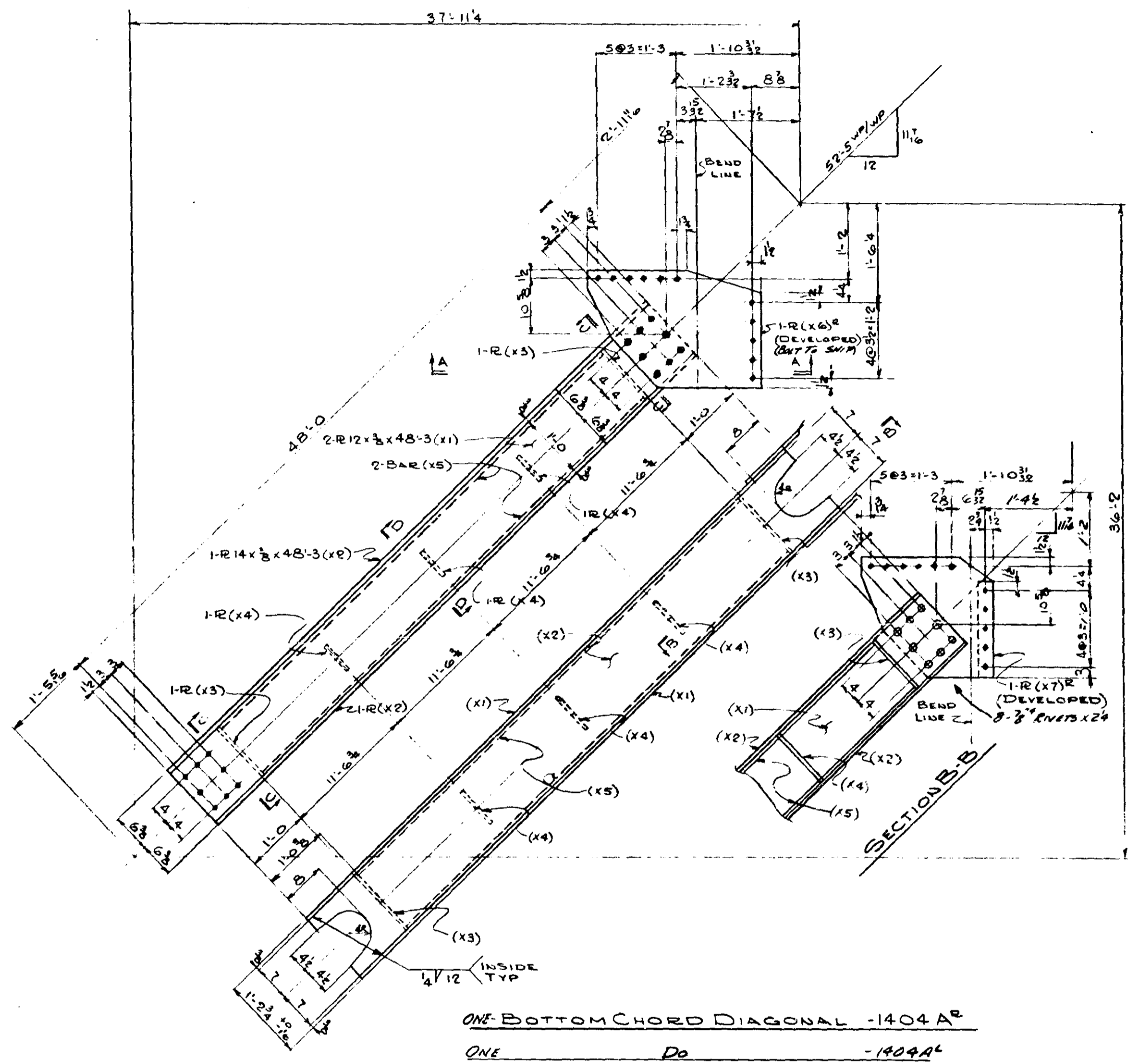
DETAILS OF TRUSS DIAGONAL (L27-U26)E+W
 STRUCTURE BRIDGE No 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINN STATE HWY DEPT
 CUSTOMER MINN STATE HWY DEPT

CONTRACT 3142 FABCOD 214 SHEET 1403

HAMMOND FAB MINN. PROJ. No I-G 35W-3158112
 STATE PROJ. No 2783-9340B(TN 35W-374)

OPEN HOLES 1/8 RIVETS & BOLTS PAINT YES SEE SHIT GNI
 DRAWN BY MJP DATE 1-21-66 CHECKED BY H.M.H DATE 4-29-66

Div. 14	REVISIONS	△ 10/7/66	△	△	△
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LINE	SHIP NO	NO REQ	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO	TOTAL WEIGHT	UNIT PRICE	AMOUNT
1										
2										
3	1404A	ONE	BOTTOM CHORD DIAGONAL							
4	1404A	ONE	Do	Do						
5		4	R 12 x 3/8	48 3	X1		264	59	2953	3306
6		4	R 14 x 3/8	48 3	X2		264	59	3444	3306
7		4	R 12 x 3/8	1 2	X3		264	59	71	3306
8		6	R 12 x 3/8	1 2	X4		264	59	107	3306
9		8	BAR 3/8 x 3/8	46 2 1/2	X5		261	59	177	3306
10		2	R 2 1/4 x 3/8	2 0 3/4	X6		261	59	146	3306
11		2	R 2 1/4 x 3/8	2 0 3/4	X7		261	59	109	3306
12		16	R 1 1/2							NE
13		2	F.W 1/2	2 1/2						NE
14		2	BAR 3x4	1 1/2	X8		574	59	7	3306
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16		4	S80							NE
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BID ITEM 59 = 7015

SHOP NOTE:
 FOR GEN NOTES SEE
 GNI
 FOR MAT'L SPECS.
 SEE BILL OF MAT'L
 FOR INSPECTION OF WELDS SEE NOTE
 ON SHT GNI
 MINN. PROJ. NO. I G 35W-3(58)112
 STATE PROJ. NO. 2783-93408
 (THSSW-394)

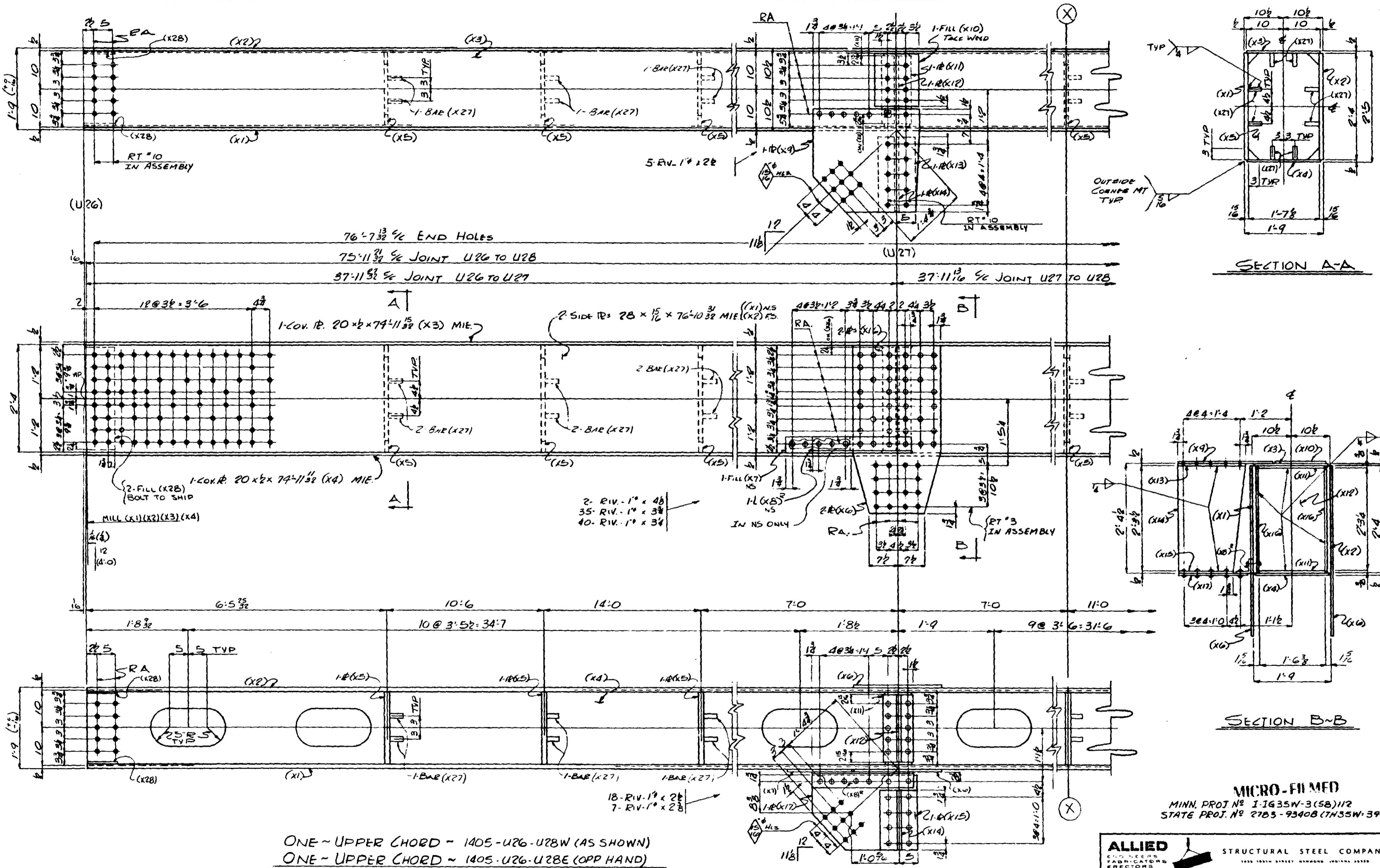
HAMMOND FAB

OPEN HOLES	15"	RIVETS & BOLTS	7"	PAINT	YES-SEE SHT GNI
DATE	2-1-68	CHECKED BY	H.M.H.	DATE	2-1-68

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS Erectors
 1400 WEST STREET, WARREN, ILLINOIS, U.S.A.

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

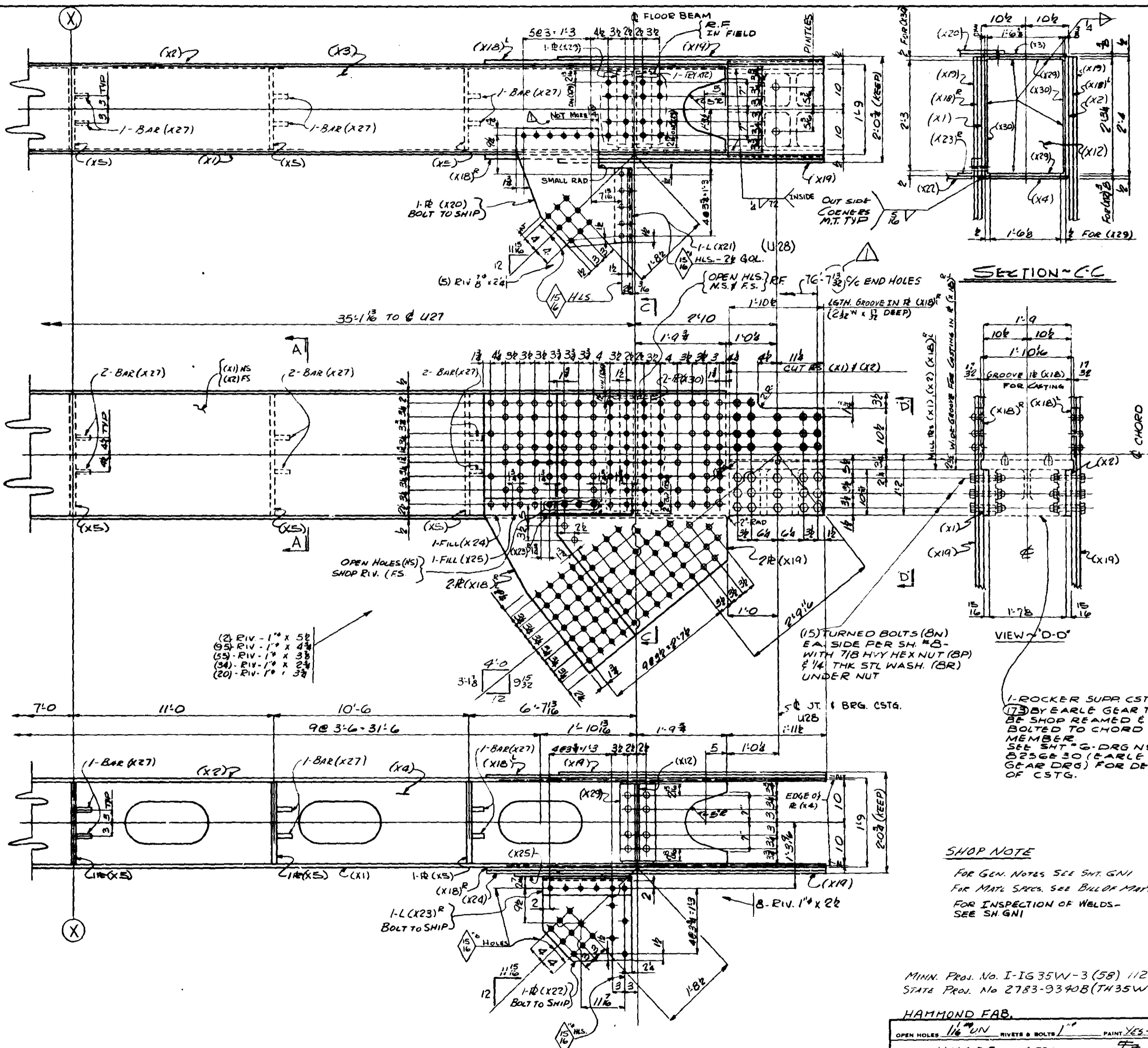
CONTRACT **3142** FABCOOD **264** SHEET **1404**



ONE - UPPER CHORD - 1405-U26-U28W (AS SHOWN)
 ONE - UPPER CHORD - 1405-U26-U28E (OPP HAND)

MICRO-FILMED
 MINN. PROJ. NO. 1-1635W-3(58)112
 STATE PROJ. NO. 27B5-9340B (7N35W-394)

ALLIED ENGINEERS FABRICATORS ERECTORS		STRUCTURAL STEEL COMPANY 1225 15TH STREET, MINNEAPOLIS, MINN. 55403	
DRAWN BY: N.N. DATE: 2/28/66		DETAILS OF: UPPER CHORD U26 TO 28 E/W	
CHECKED BY: J.N. DATE: 4/30/66		STRUCTURE: BRIDGE NO. 9340	
IN CHARGE OF: J. NEWELL		LOCATION: MINNEAPOLIS, MINNESOTA	
FAB. PLANT: HAMMOND		OWNER: MINNESOTA STATE HWY. DEPT.	
REFERENCE DWGS: E15		CONTRACT: 3142	
		DIV. 14	
		FAB. CODE: 215	
		SHEET: 1405AB	



ITEM	SHIP MK.	NO. REQD.	SHAPE	LENGTH	PC. WT.	REMARKS	ITEM NO.	TOTAL WEIGHT	NET WT.
1									
2									
3									
4									
5			ONE UPPER CHORD- 1405 (U26-U28) W- AS SHOWN						
6			ONE UPPER CHORD- 1405 (U26-U28) E- OPD HAND						
7		2	R 28x12	76'10 1/2	X1	MIE	2806	59	13729
8		2	R 28x12	76'10 1/2	X2	MIE	2806	59	13729
9		2	R 20x8	74'11 1/2	X3	MIE	2807	59	5097
10		2	R 20x8	74'11 1/2	X4	MIE	2807	59	5097
11		12	R 12x8	2'9	X5		2509	59	683
12		4	R 23x8	3'7 1/2	X6		2512	59	567
13		2	FILL 4x8	1'5 1/2	X7		2519	59	20
14		2	L 4x4x3/8	2'2 1/2	X8		2518	59	43
15		2	R 27x8	2'4 1/2	X9		2518	59	162
16		2	FILL 12x8	1'2 1/2	X10		2519	59	36
17		4	R 8x8	1'6 1/2	X11		2516	59	62
18		4	R 10x8	2'3 1/2	X12		2517	59	289
19		2	R 10x8	1'7 1/2	X13		2508	59	55
20		2	R 10x8	2'3 1/2	X14		2508	59	109
21		2	R 10x8	1'3 1/2	X15		2507	59	44
22		4	R 7x8	2'3 1/2	X16		2518	59	88
23		2	R 20x8	2'3 1/2	X17		2508	59	116
24		4	R 6x8x1/2	6'11	X18		2522	60	4123
25		4	R 56x8	5'4 1/2	X19		2523	60	2598
26		2	R 26x8	2'5 1/2	X20		2520	59	162
27		2	L 4x4x3/8	1'6	X21		2511	59	29
28		2	R 20x8	1'10 1/2	X22		2508	59	95
29		2	L 4x4x3/8	1'10 1/2	X23		2527	59	36
30		2	FILL 4x8	1'6 1/2	X24		2525	59	36
31		2	FILL 4x8	1'9 1/2	X25			59	37
32		96	BAR 3/8x8	0'3 1/2	X27		2511	59	125
33									
34			2 REAR SUPP CSTG 11731 BY EARLE GEAR						
35									
36		4	R 27x16	0'7 1/2	X28	SWERT BRASS	2512	59	16
37		4	R 8x8	1'6 1/2	X29		2516	59	62
38		4	R 8x8	2'3	X30		2515	59	92
39									
40									
41		2	5/16 WLD	299	10				16
42		2	5/16 WLD	88	0				
43		4	650 RIV 1"						
44		4	580 3/4"						
45		8	580 1"						
46		10	8x8 RIV						
47									
48		60	TURNED BOLTS (8N)	0'5 1/2	8N	SEE SH #8 FOR DET.			
49		60	8x8 HWY HEX NUT		8N	SEE SH #8 FOR DET.			
50		60	WASH 2 1/4x4 THK		8N	SEE SH #8 FOR DET.			
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61			BID ITEM	59		40605			
62									
63			BID ITEM	60		9701			
64									
65									
66									
67									
68									
69									
70									
71									

SHOP NOTE
 FOR GEN. NOTES SEE SH. GNI
 FOR MATL. SPECS. SEE BILL OF MATL.
 FOR INSPECTION OF WELDS - SEE SH. GNI

MINN. PROJ. No. I-1635W-3 (58) 112
 STATE PROJ. No. 2783-9340B (TH35W-394)
HAMMOND FAB. DIV. 14

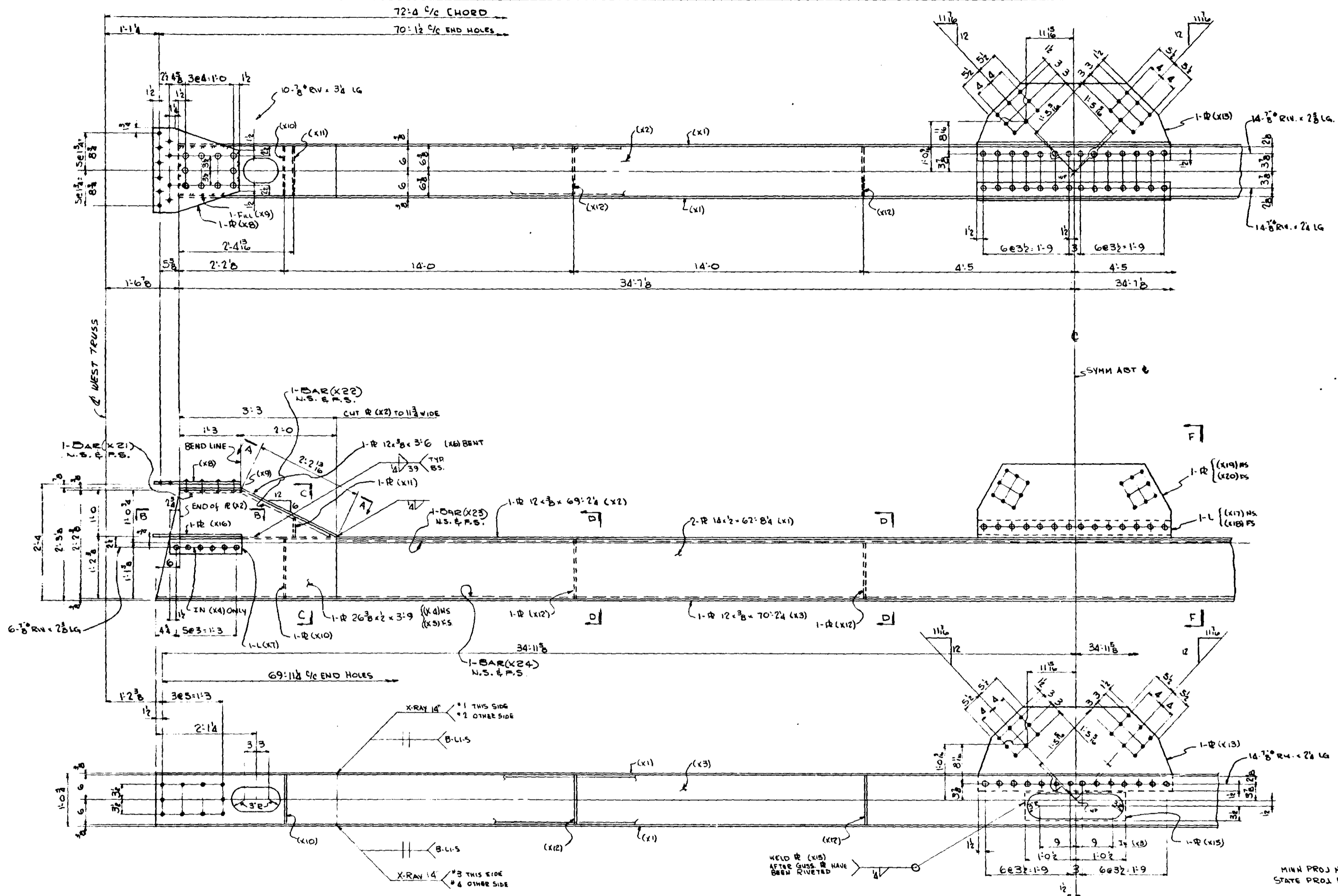
DETAILS OF UPPER CHORD U26 TO U28 E.P.W.
 BRIDGE No. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

OPEN HOLES 1/4" UN RIVETS & BOLTS 1" PAINT YES-SEE SH. GNI
 DRAWN BY N.N. & D.J. DATE 9-25-66 CHECKED BY [Signature] DATE 4/30/66

REVISIONS: Δ 10/1/66 Δ Δ Δ

CONTRACT 3142 FABCOD 215 SHEET 1405B

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1225 10TH STREET, HAMMOND, INDIANA 46320

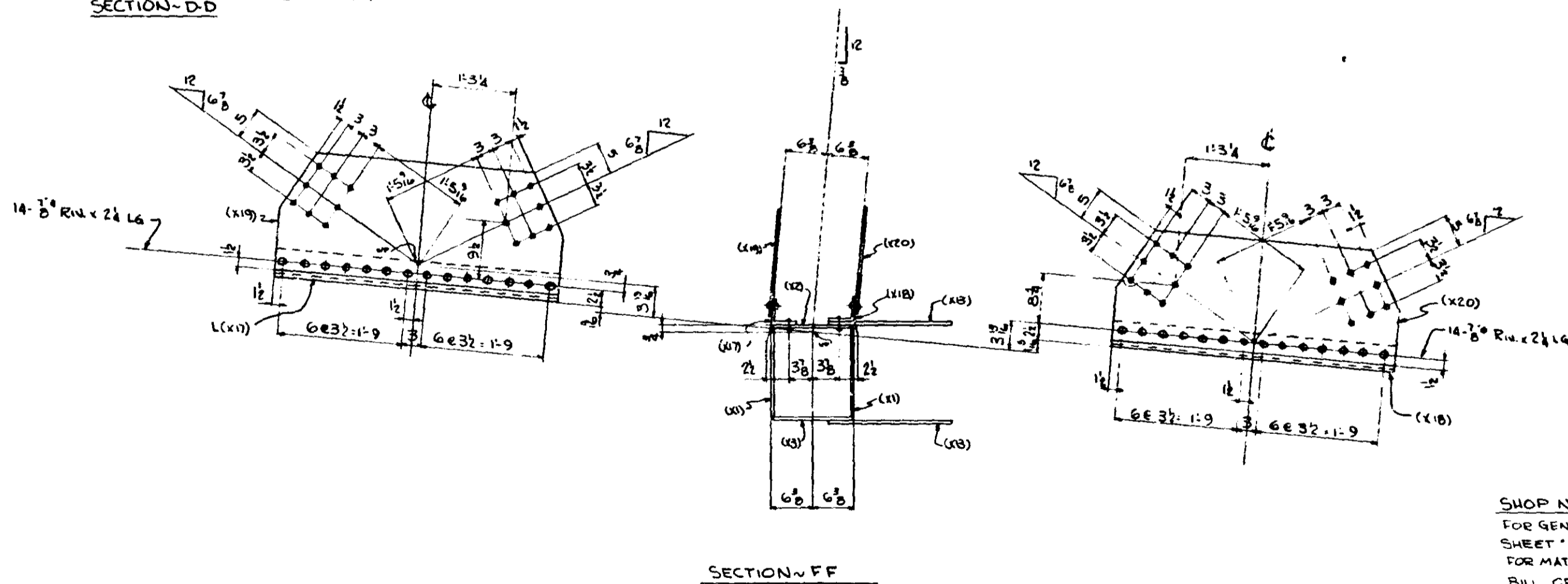
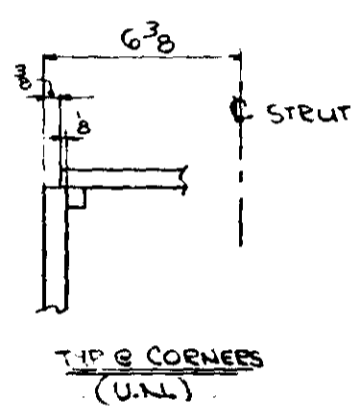
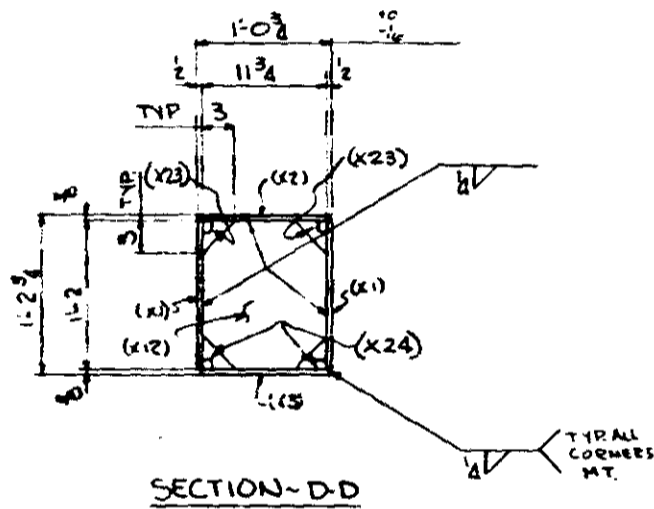
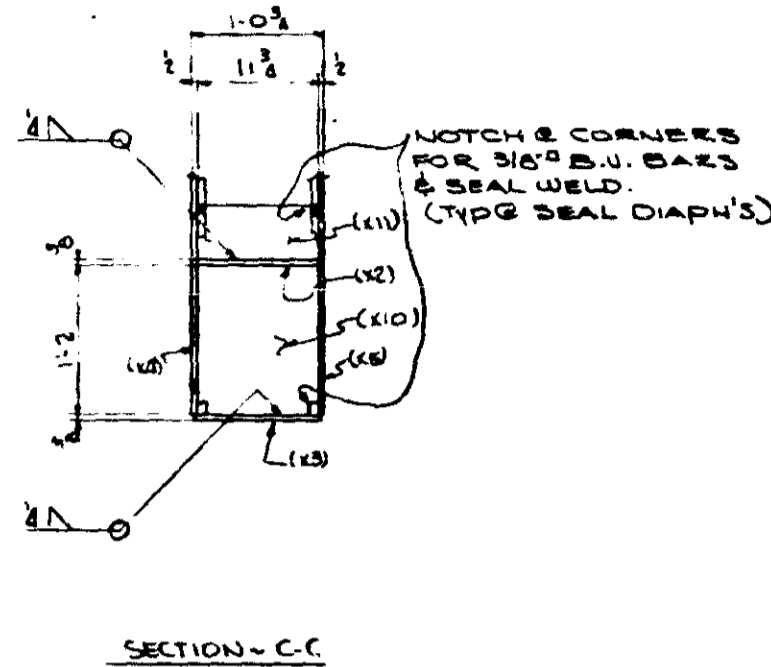
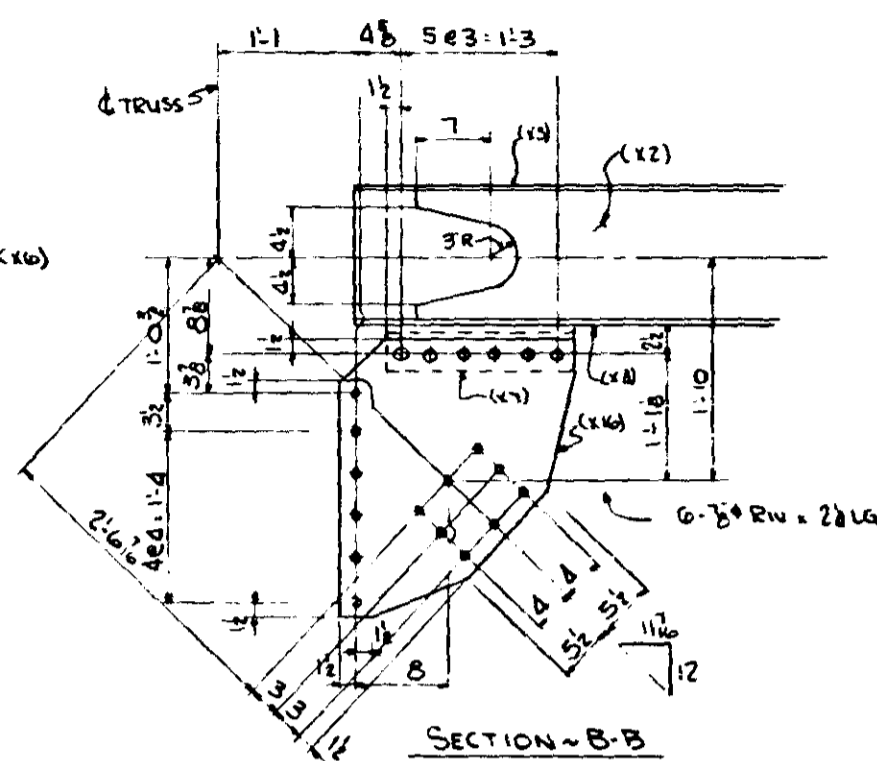
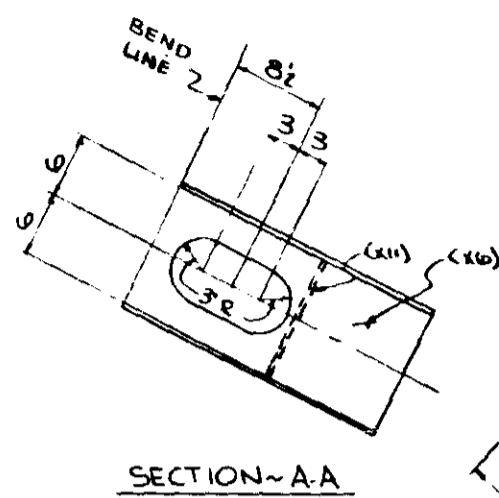


ONE-BOTTOM STRUT- 1406A@ L26

MINN PROJ # I-16 354-3 (88)112
STATE PROJ # 2783-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS ERECTORS
1225 19TH STREET, HANNING, IOWA 52527

REVISIONS 1/27/66 2/1/66 3/1/66	DRAWN BY: <i>PH</i> DATE: 2-7-66 CHECKED BY: <i>HMH</i> DATE: 2-29-66 IN CHARGE OF: <i>J. NEWELL</i> FAB PLANT: <i>HAMMOND</i> REFERENCE DWG: <i>E15</i>	DETAILS OF: BOTTOM STRUT & L26 STRUCTURE: BRIDGE # 9340 LOCATION: MINNEAPOLIS, MINNESOTA OWNER: MINNESOTA STATE HIGHWAY DEPT
	CONTRACT: 3147	DIV. 14
	FAB. CODE: 264	SHEET: 1406AB
	WELD # (X15) AFTER GUSSET HAVE BEEN RIVETED	



SHOP NOTE
 FOR GENERAL NOTES SEE SHEET GN-1
 FOR MAT'L SPECS SEE BILL OF MAT'L
 FOR INSPECTION OF WELDS SEE NOTE ON SHT GN-1

LINE	SHIP NO	NO	SHAPE	LENGTH	PC	REMARKS	ITEM NO	BID ITEM	TOTAL WEIGHT	MINO SPECS
1										
2										
3										
4	1406B	CAR	BOTTOM STRUT (30 x 70-D)							
5										
6	2	14-7/8	42 8/16	151			2802	59	2989	3306
7	1	12 x 8	69 2/8	152			2805		1057	
8	1	12 x 8	70 2/8	153			2802		1074	
9	2	20 x 8	3 9/16	154			2804		336	
10	2	20 x 8	3 9/16	155			2804		336	
11	2	12 x 8	3 6/16	156		BENT	2804		107	
12	2	L 4 x 4 x 3/8	1 6/16	157			2809		29	
13	2	L 4 x 4 x 3/8	1 10 3/8	158			2804		99	
14	2	Fill 12 x 8	1 5/16	159			2804		89	
15	2	L 4 x 4 x 3/8	1 2 1/16	160			2808		35	
16	2	L 4 x 4 x 3/8	0 11 3/16	161			2803		13	
17	4	L 4 x 4 x 3/8	1 2 1/16	162			2809		70	
18	2	19 x 8	4 0	163			2811		199	
19										
20	1	12 x 8	2 1 1/16	164			2801		9	
21	2	22 x 8	2 2 3/8	165			2808		127	
22	1	L 4 x 4 x 3/8	8 10	166		BENT	2810		99	
23	1	L 4 x 4 x 3/8	0 10	167		BENT	2808		37	
24	1	19 x 8	4 0	168			2803		36	
25	1	18 1/2 x 8	4 10	169			2808	59	99	3306
26										
27										
28										
29										
30	1/4	5 x 8 W							1.0	
31	1	1/2 FW	29 C						4.2	
32										
33										
34										
35	2	BAR 3/4 x 1/2	1 3	171				59	1	3306
36	2	BAR 1/2 x 3/8	2 2	172					2	
37	2	BAR 3/8 x 3/8	102 5/4	173					60	
38	2	BAR 3/8 x 3/8	70 2/4	174					67	
39										
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ALLIED STRUCTURAL STEEL COMPANY
 1100 WEST STREET STAMPAED, MINN. 55108

MINN PROJ NO ITC 35W-3(S0)112
 STATE PROJ NO 2183-9340B(1455N:394)

DIVISION 14
 HAMMOND FAB.

DETAILS OF BOTTOM STRUT & L26
 STRUCTURE BRIDGE NE 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY DEPT
 CUSTOMER MINNESOTA STATE HWY DEPT

CONTRACT 3142 FABCOB 264 SHEET 1406B

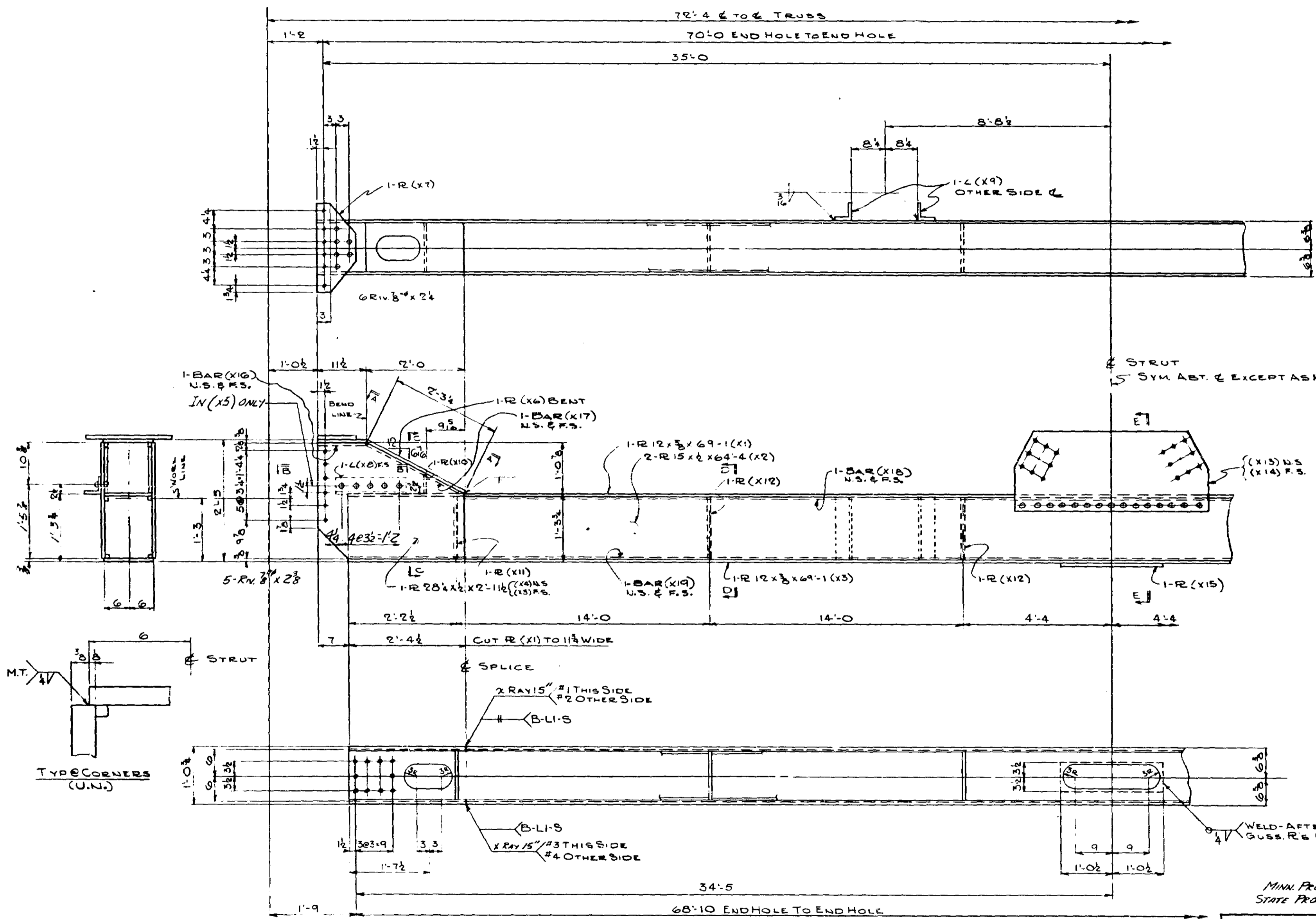
OPEN HOLES 5" RIVETS & BOLTS 5/8" PAINT YES, SEE SHT GN-1

DRAWN BY PH DATE 2-7-66 CHECKED BY H.M.H DATE 2-24-66

REF E15 REVISIONS

MICRO-FILMED

BID ITEM 59 = 6971

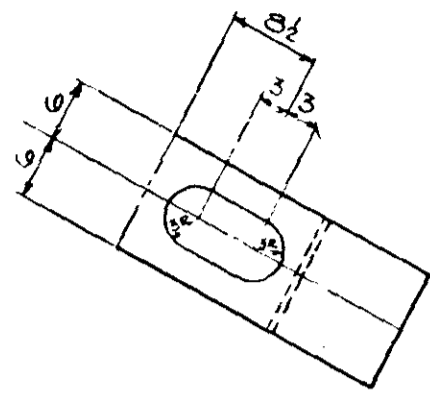


ONE-STRUT 1408A

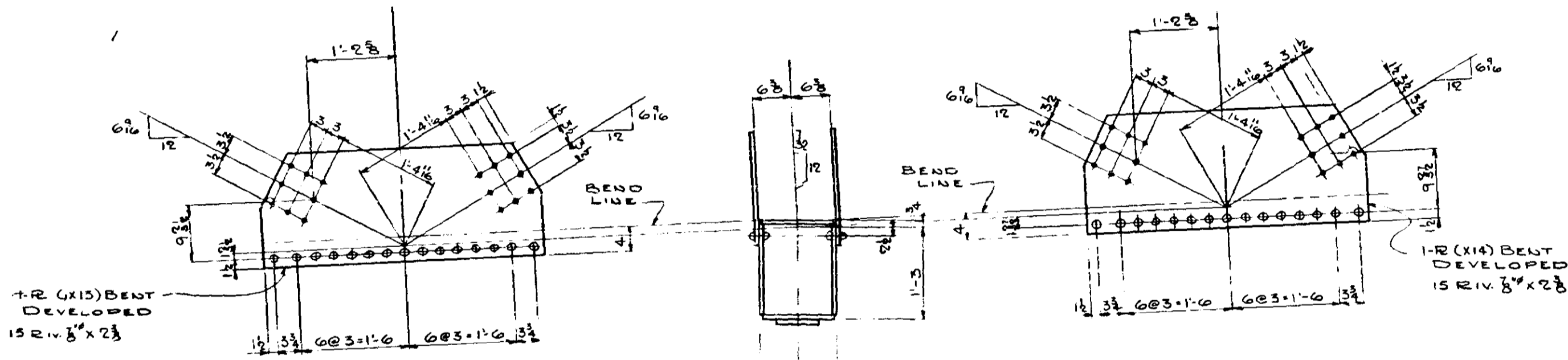
MINN. PROJ. No. I-IG35W-3(58)112
 STATE PROJ. No. 2783-93408 (7H35W-399)

ALLIED STRUCTURAL STEEL COMPANY
 1400 15TH STREET, WARREN, MICHIGAN 48090

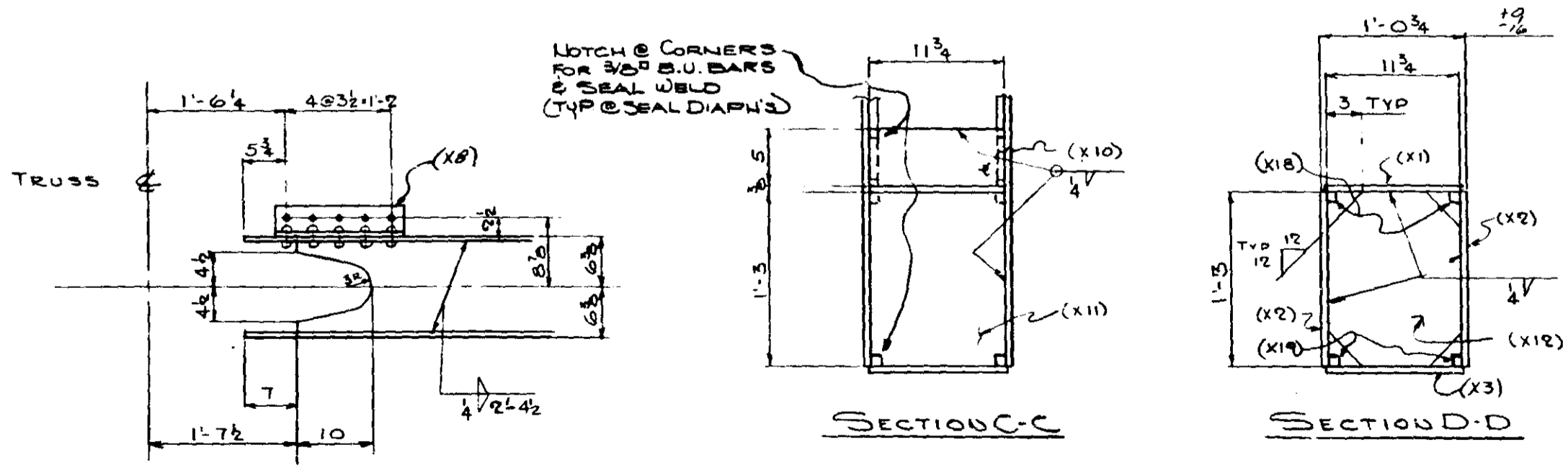
REVISIONS 11-21-66 0 U B	DRAWN BY <i>M.H.</i> DATE 2/11/66 CHECKED BY <i>H.M.H.</i> DATE 4/29/66 IN CHARGE OF <i>J. NEWELL</i> FAB. PLANT <i>HAMILTON</i> REFERENCE DWG. <i>E15</i>	DETAILS OF <u>BOTTOM STRUT @ L27</u> STRUCTURE <u>BRIDGE N 9340</u> LOCATION <u>MINNEAPOLIS, MINNESOTA</u> OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
	CONTRACT <u>3142</u>	DIV. <u>14</u>
	FAB. CO. <u>R64</u>	SHEET <u>1408AB</u>
	WELD-AFTER ALL GUSSES HAVE BEEN RIV.	



SECTION A-A



SECTION E-E



SECTION B-B

SECTION C-C

SECTION D-D

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

DIV. 14
 HAMMOND FAB
 MINN. PROJ. NO I-IG35W-3(5B)112
 STATE PROJ. NO 2783-93408
 (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS & FABRICATORS
 1425 14TH STREET, HARBOR, INDIANA 46619

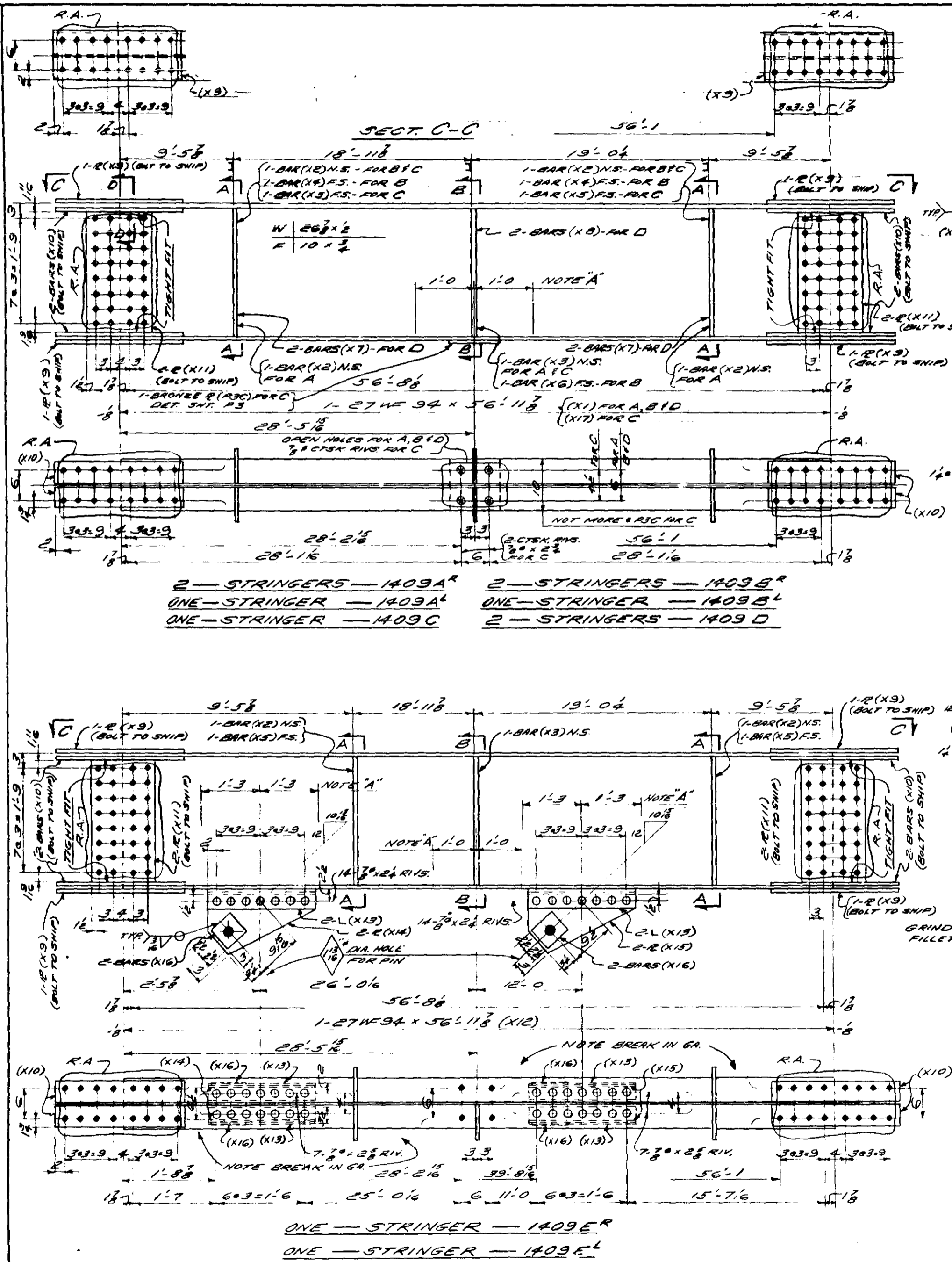
DETAILS OF **BOTTOM STRUT @ L27**
 STRUCTURE **BRIDGE #9340**
 LOCATION **MINNEAPOLIS, MINNESOTA**
 OWNER **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER **MINNESOTA STATE HWY. DEPT.**

OPEN HOLES	15"	RIVETS & BOLTS	7"	PAINT	YES/SEE SHT GNI
DRAWN BY	<i>Mia</i>	DATE	2-11-66	CHECKED BY	H.M.H.
REVISIONS	△	△	△	△	△

CONTRACT **3142** FABCOD **264** SHEET **1405**

LINE NO.	SHIP MK.	NO.	SHAPE	LENGTH	PC MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	NET WT.
1									
2									
3									
4	1408A	ONE	STRUT (29 x 70)						
5	1	R	12 x 3	69	1	X1	2822	59	1057
6	2	R	15 x 3	64	4	X2	2821		3281
7	1	R	12 x 3	69	1	X3	2822		1057
8	2	R	28 x 4	2	11 1/2	X4	2824		284
9	2	R	28 x 4	2	11 1/2	X5	2824		284
10	2	R	12 x 3	3	28	X6	2823		99
11	2	R	9 x 3	1	9	X7	2825		40
12	2	L	4 x 4 x 3/8	1	5	X8	2901		28
13	2	L	4 x 4 x 3/8	1	3	X9	2811		25
14	2	R	5 x 3	0	11 3/4	X10			13
15	2	R	11 3/4 x 3	1	3	X11	2902		37
16	4	R	11 3/4 x 3	1	3	X12	2902		75
17	1	R	19 1/2 x 3	3	10 1/2	X13	2822		95
18	1	R	19 1/2 x 3	3	10 1/2	X14	2822		95
19	1	R	7 x 3	2	1	X15	2827	59	19
20									
21		52	3/8" RIV						NC
22		1	F.W. 4	32	7				
23		1	F.W. 6	5	0				
24									
25									
26									
27		2	BAR 3/8 x 3/8	0	11 1/2	X16		59	1
28		2	BAR 3/8 x 3/8	2	2 1/2	X17			2
29		2	BAR 3/8 x 3/8	64	4	X18			62
30		2	BAR 3/8 x 3/8	69	2	X19			66
31									
32									
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69									
70									
71									

BID ITEM 59 = 6621



2 - STRINGERS - 1409A^R 2 - STRINGERS - 1409B^R
 ONE - STRINGER - 1409A^L ONE - STRINGER - 1409B^L
 ONE - STRINGER - 1409C 2 - STRINGERS - 1409D

ONE - STRINGER - 1409E^R
 ONE - STRINGER - 1409E^L

NOTES:
 FOR MAT'L. SPEC. SEE BILL OF MAT'L.
 FOR GEN. NOTES SEE SHT. GN. 1.
 FOR INSPECTION OF WELDS SEE NOTE ON SHT. GN. 1.

NOTE "A"
 BOT. FLG. TO BE 30° TO WEB
 & SUPP. FOR DISTANCE INDICATED.

MINN. PROJ. NO. 1-16-35W-3 (58) 112
 STATE PROJ. NO. 783-9340B (7435W-394)

OPEN HOLES	15" U.N. RIVETS	7"	YES, SEE SHT. GN. 1
DRAWN BY	TL	DATE	2-18-66
CHECKED BY	K.L.K.	DATE	3-10-66
REVISIONS	40005 2-16-66	REMOVED STUDS	32-65

LINE	SHIP MK.	NO. REQD.	SHAPE	LENGTH	PC. WT.	REMARKS	ITEM NO.	TOTAL WEIGHT
1								
2								
3	1409A	2	STRINGERS			(28'x53'2)		
4	1409A	ONE	STRINGER			(28'x53'2)		
5	1409B	2	STRINGERS			(28'x53'2)		
6	1409B	ONE	STRINGER			(28'x53'2)		
7	1409C	ONE	STRINGER			(28'x53'2)		
8	1409D	2	STRINGERS			(28'x53'2)		
9		8	27W94	56'11 1/2	X11	FOR A, B, D, E	59	42856
10		14	8W57 1/2	2' 1/2	X8	FOR A, B, C, D, E		264
11		4	8W57 1/2	2' 1/2	X9	FOR A, C		75
12		6	8W57 1/2	2' 1/2	X4	FOR B		113
13		2	8W57 1/2	2' 1/2	X5	FOR C		38
14		3	8W57 1/2	2' 1/2	X6	FOR D		57
15		5	8W57 1/2	2' 1/2	X7	FOR E		151
16		4	8W57 1/2	2' 1/2	X8	FOR D		95
17		36	2' 10" x 1/2"	2' 2"	X9	U.M.		1161
18		72	8W57 1/2	2' 2"	X10	U.M.		1343
19		36	2' 13" x 1/2"	2' 0 1/2"	X11	U.M.		1005
20		1	27W94	56'11 1/2	X17	FOR C		5357
21		1	BRONZE R			FOR C		
22		4	CRK. RIV. 5/8"			FOR C		NC
23		3	3" WLD.	1' 4"		FOR A		NC
24		6	3" WLD.	2' 8"		FOR C, D		NC
25		3	3" WLD.	12' 8"		FOR A		NC
26		4	3" WLD.	20' 8"		FOR B, C		NC
27		2	3" WLD.	25' 4"		FOR D		NC
28		180	S.B.					
29								
30								
31	1409A	ONE	STRINGER			(28'x53'2)		
32	1409B	ONE	STRINGER			(28'x53'2)		
33		2	27W94	56'11 1/2	X12	FOR A	59	10714
34		4	8W57 1/2					75
35		4	8W57 1/2					75
36		2	8W57 1/2					38
37		5	8W57 1/2					151
38		16	8W57 1/2					298
39		8	8W57 1/2					223
40		5	2' 13" x 1/2"	1' 10"	X13			183
41		4	2' 13" x 1/2"	1' 10"	X14			123
42		4	2' 13" x 1/2"	1' 10"	X15			123
43		8	8W57 1/2	0' 5 1/2"	X16		59	20
44		112	RIV. 5/8"					NC
45								
46		40	S.B.					NC
47								
48		2	3" WLD.	7' 2"				NC
49		2	3" WLD.	2' 8"				NC
50		2	3" WLD.	20' 4"				NC
51								
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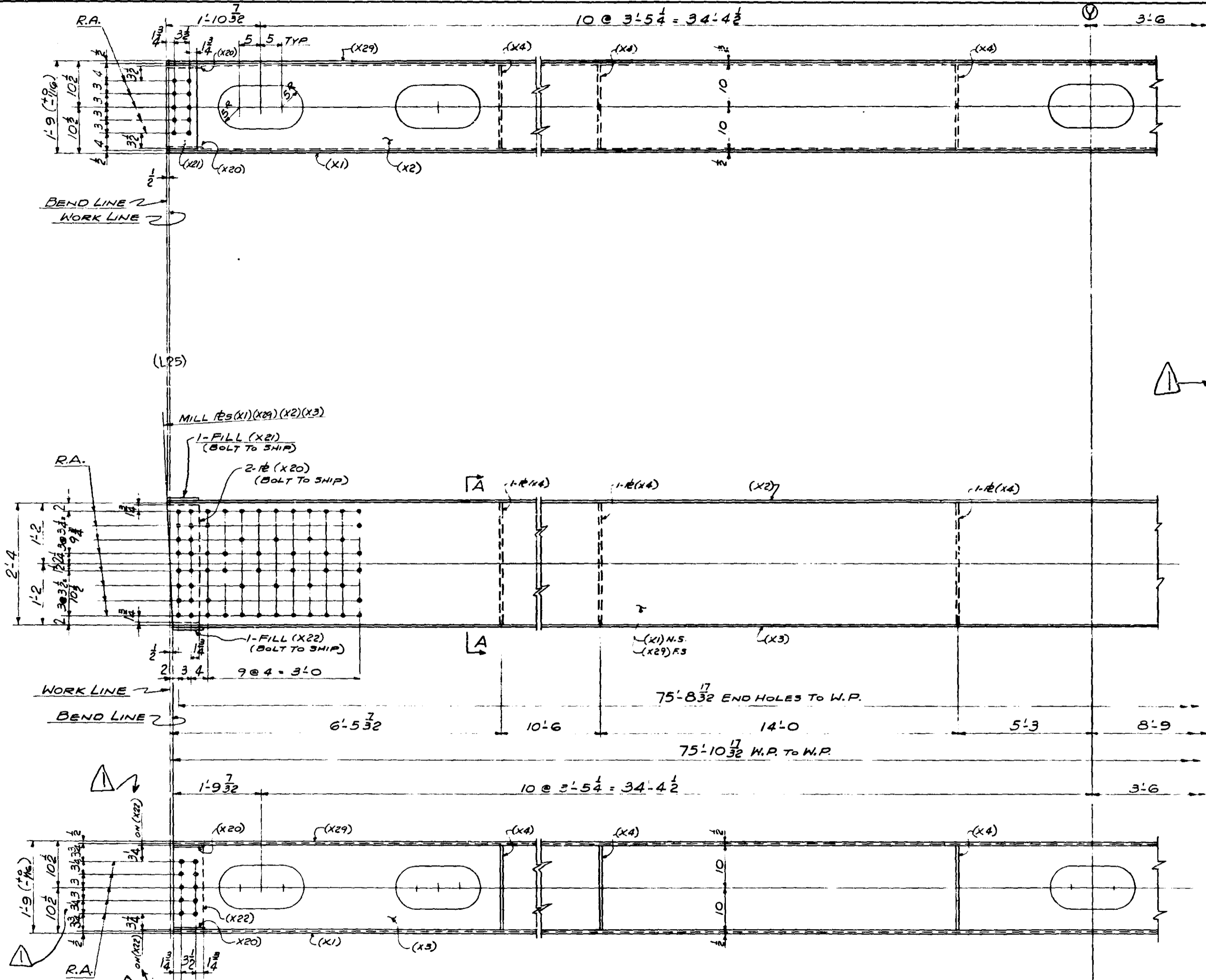
ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1425 10TH STREET, HARBOR, MINN. 55404

DIVISION #14
 HAMMOND FAB.

DETAILS OF STRINGERS - RR UEG
 STRUCTURE BRIDGE # 3340

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

CONTRACT 3142 FABCOD 274 SHEET 1409



ITEM NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT	W. P. TO W. P.
1								
2								
3		ONE LOWER CHORD - 1410 (L25-L27) W (AS SHOWN)						
4		ONE LOWER CHORD - 1410 (L25-L27) E (OPP. HAND)						
5								
6	2	2B x 7/8	74.576	X1	M.I.E.	2406	59	12402
7	2	20 x 7/16	74.576	X2	M.I.E.	2405	59	4929
8	2	20 x 7/16	74.216	X3	M.I.E.	2405	59	4914
9	12	19/16 x 3/8	2.4	X4		2425	59	687
10								
11	4	60/16 x 1/2	8.312	X6	M.I. EDGE	2406	61	3769
12	4	59/16 x 1/2	6.116	X7	M.I. EDGE	2407	61	2819
13	2	37 x 1	4.134	X8	FLAT	2427	59	1093
14								
15								
16	4	13 x 6 1/2 x 3/4	2.9	X11	FOR ANY W. P. TO W. P. LINE 16	2410		3306
17	4	13 x 6 x 3/4	2.9	X12	FOR ANY W. P. TO W. P. LINE 16	2410	59	428
18	2	13 x 4 x 3/8	1.9	X12		2419	59	34
19	4	13 x 4 x 3/8	1.8	X13		2422	59	65
20	4	13 x 4 x 3/8	1.6 1/2	X14		2411	59	60
21	24	13 x 6 x 1/2	3.117	X15	M.I.E.	2408	59	1535
22	4	21 x 3/4	3.117	X16	M.I.E.	2411	59	806
23	4	13 x 6 x 3/4	1.7	X17		2409	59	214
24	4	13 x 6 x 3/4	1.3 1/4	X18	M.I.E.	2411	59	69
25	2	21 x 3/4	3.117	X19	M.I.E.	2411	59	423
26	4	27 1/2 x 1/16	0.714	X20	SHEET PILE	2425	59	1.3
27	2	FILL 7 x 1/16	1.7	X21	SHEET PILE	2425	59	5
28	2	FILL 7 x 1/16	1.7	X22	SHEET PILE	2425	59	5
29	4	21 x 1/2	3.776	X23		2419	59	521
30	2	13 x 6 x 3/8	1.9	X24		2416	59	43
31	2	13 x 4 x 3/8	1.11	X25		2417	59	38
32	2	23 1/2 x 3/8	3.672	X26		2414	59	227
33	2	FILL 12 x 7/16	1.6	X27		2423	59	24
34	2	FILL 9 x 7/16	1.0	X28		2422	59	27
35	2	2B x 7/8	74.576	X29	M.I.E.	2406	59	12402
36								
37								
38	2	5/16 WLD	297.6					N.C.
39	2	1/2 WLD	39.6					N.C.
40								
41								
42		960 1/2" RIV						1875
43								
44		16 S.B.O.						
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55		BID ITEM	59 =		39986			
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57		BID ITEM	61 =		6583			
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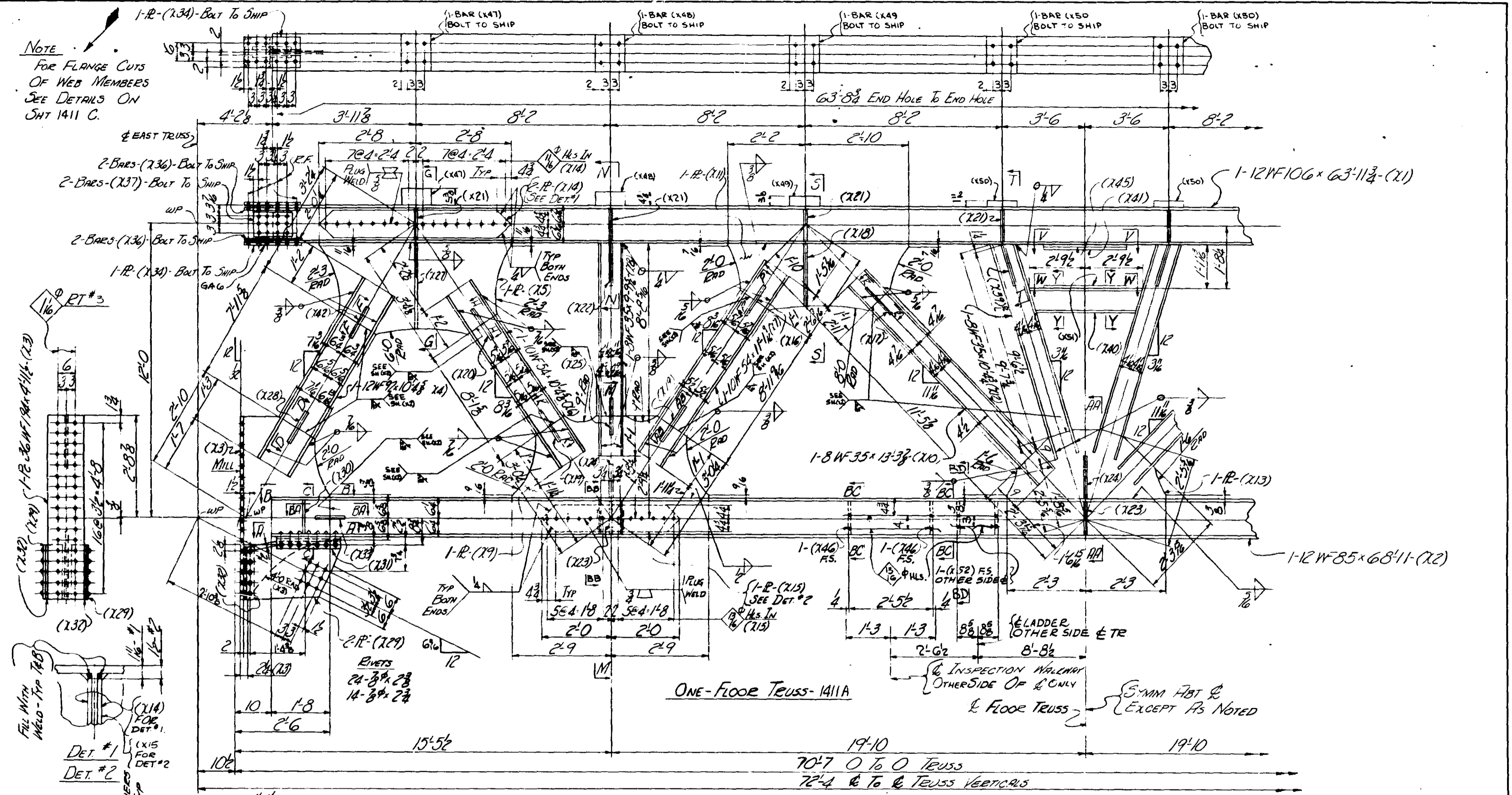
ONE - LOWER CHORD - 1410 (L25-L27) W - AS SHOWN
 ONE - LOWER CHORD - 1410 (L25-L27) E - OPP. HAND

NOTES:
 FOR GEN'L NOTES - SEE SH. GNI
 FOR MAT'L SPECS - SEE B/M
 FOR INSPECTION OF WELDS - SEE SH. GNI
 MINN. PROJ. NO I-IG 35W-3 (58) 112
 STATE PROJ. NO 2783-9540B (TH 35 W-394)

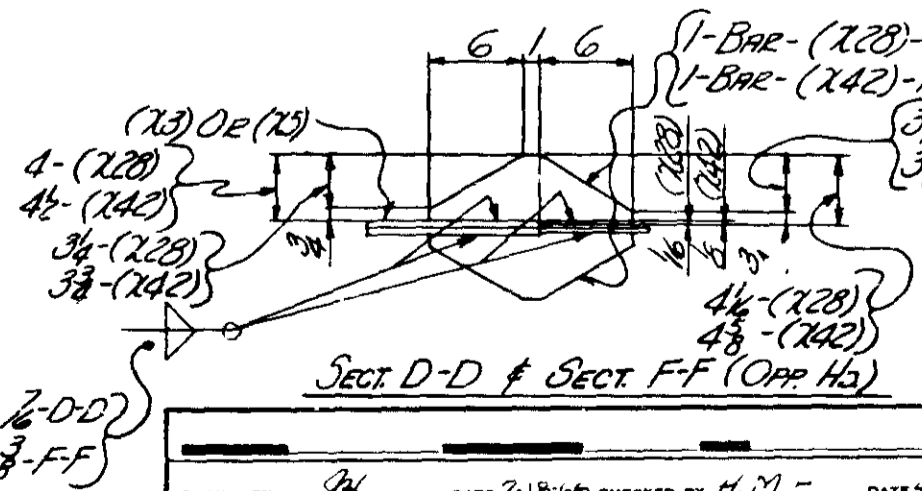
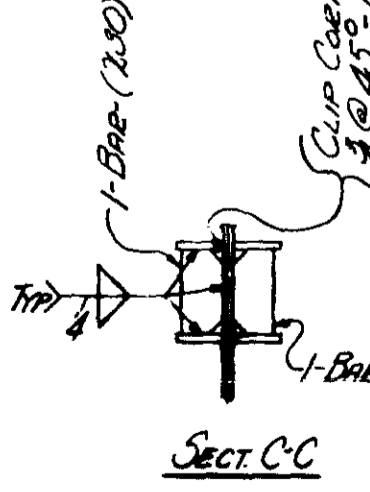
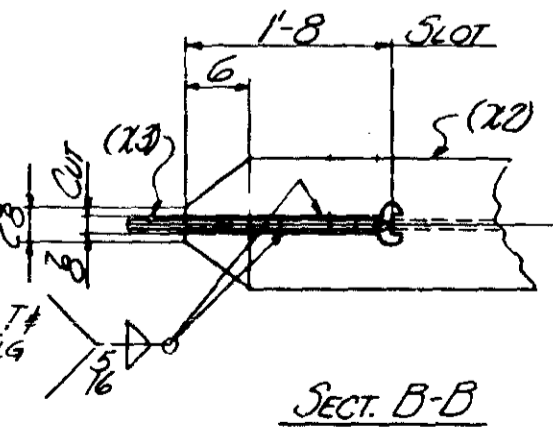
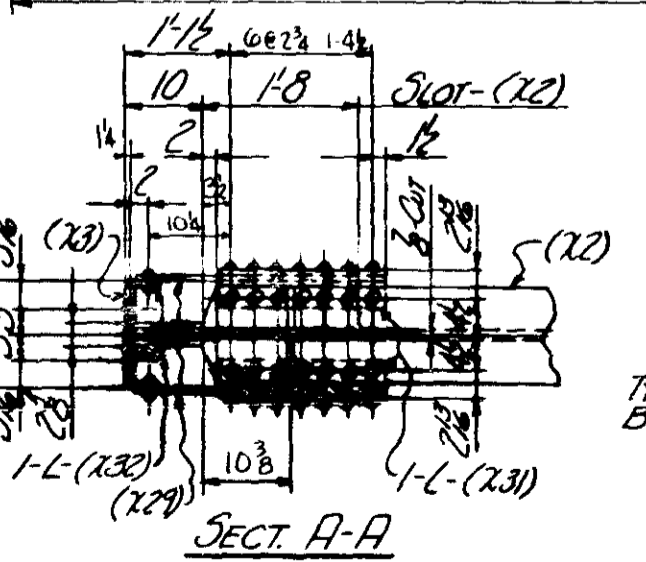
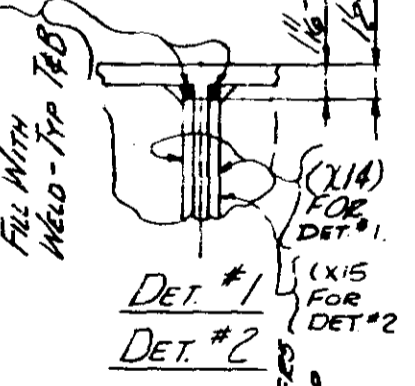
DIV. 14
 HAMMOND FAB.
 OPEN HOLES 1/4" U.N. RIVETS & BOLTS 1" PAINT YES-SEE SH. GNI
 DRAWN BY: DATE 2-16-66 CHECKED BY: HMM DATE 3-24-66
 REVISIONS: 11/17/66

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS ERECTORS
 1200 12TH STREET S.W. MINNEAPOLIS, MINN. 55408
 DETAILS OF LOWER CHORD (L25-L27)
 STRUCTURE BRIDGE NO 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY DEPT
 CUSTOMER MINNESOTA STATE HWY DEPT
 CONTRACT 3142 FABCOD 215 SHEET 1410AC

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1411 C.



ONE-FLOOR TRUSS-1411A

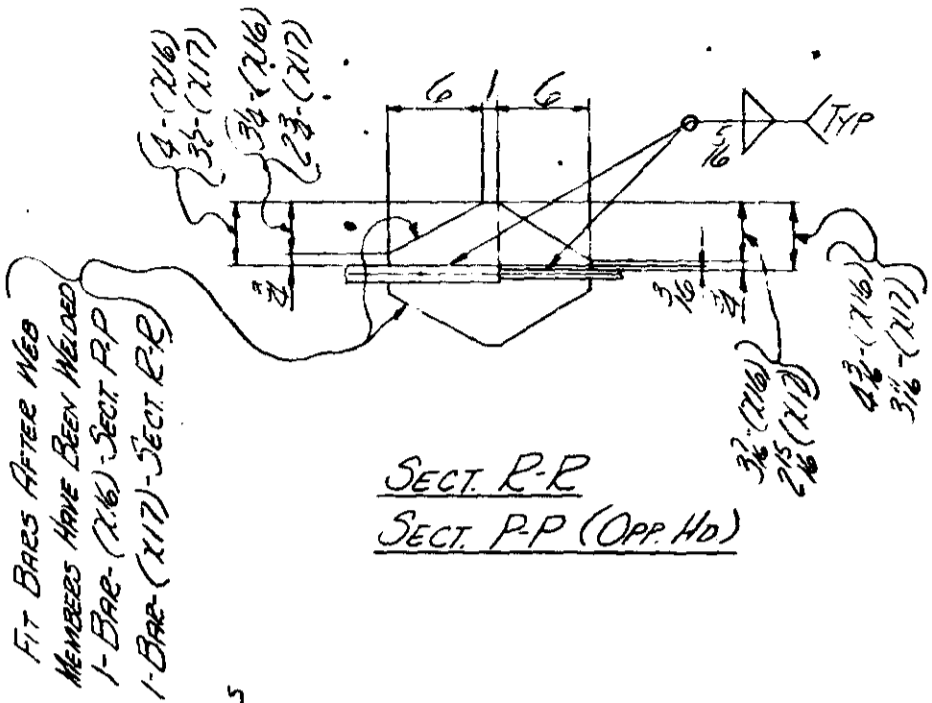


MINN. PROJ. NO. I-1635W-3(58,112)
STATE PROJ. NO. 2783-9340B(TH35W-394)

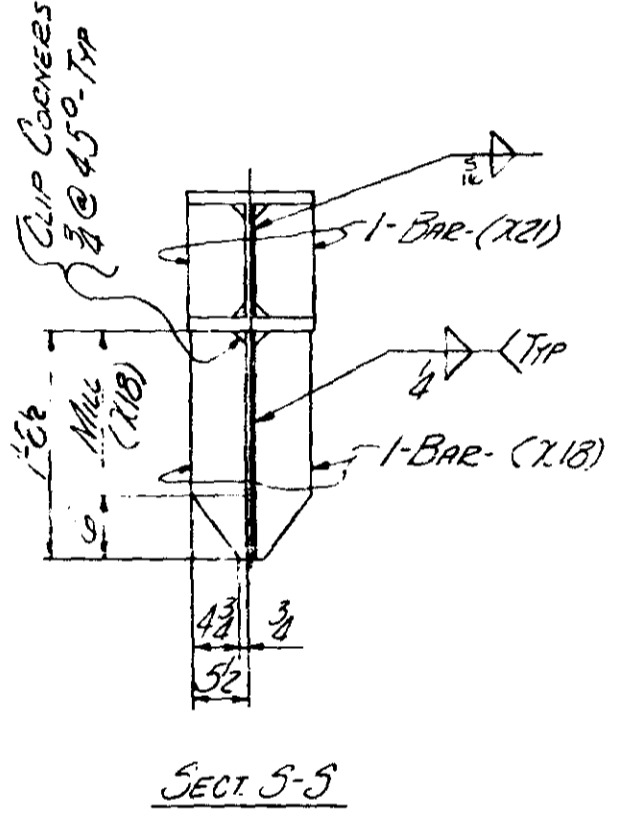
ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS, FABRICATORS & RECTORS
1425 15TH STREET, HAWAII, INDIANA 46033

DETAILS OF FLOOR TRUSS @ 427
STRUCTURE BRIDGE No. 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HWY DEPT
CUSTOMER MINN. STATE HWY DEPT

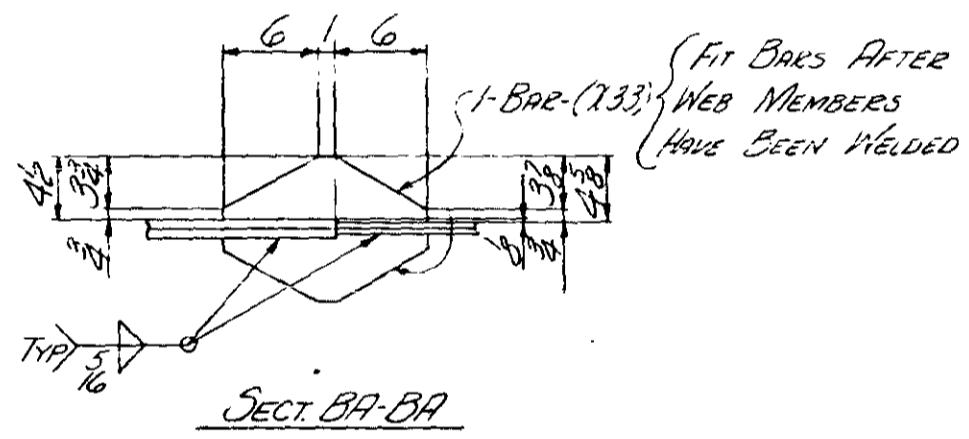
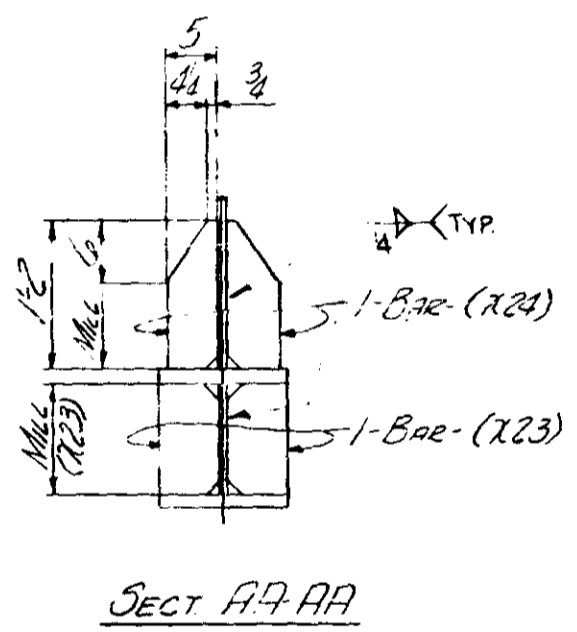
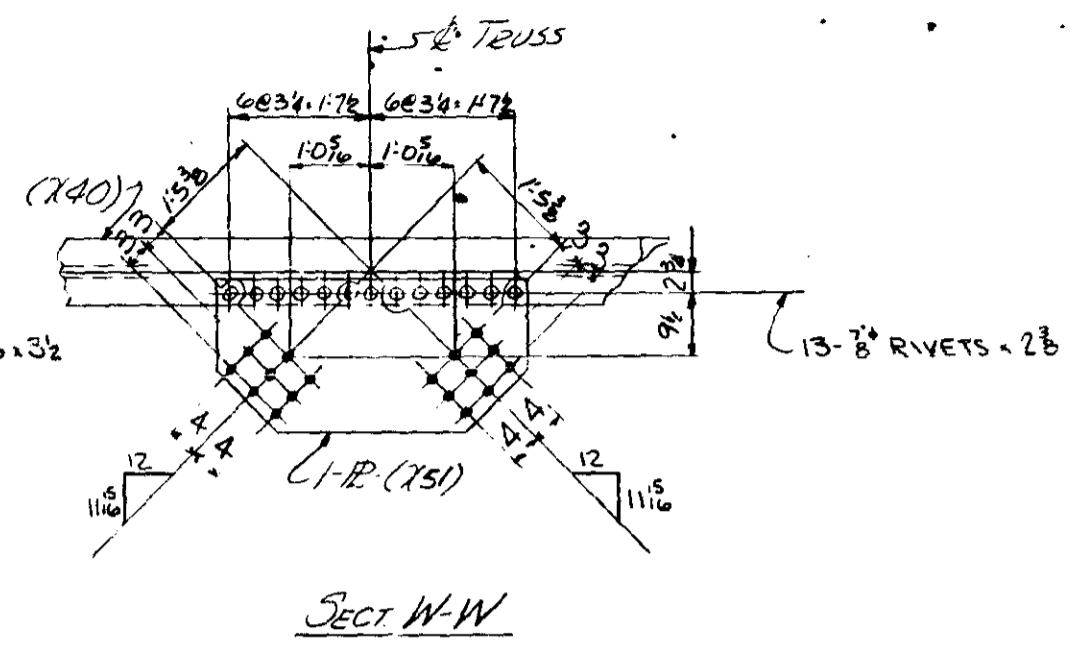
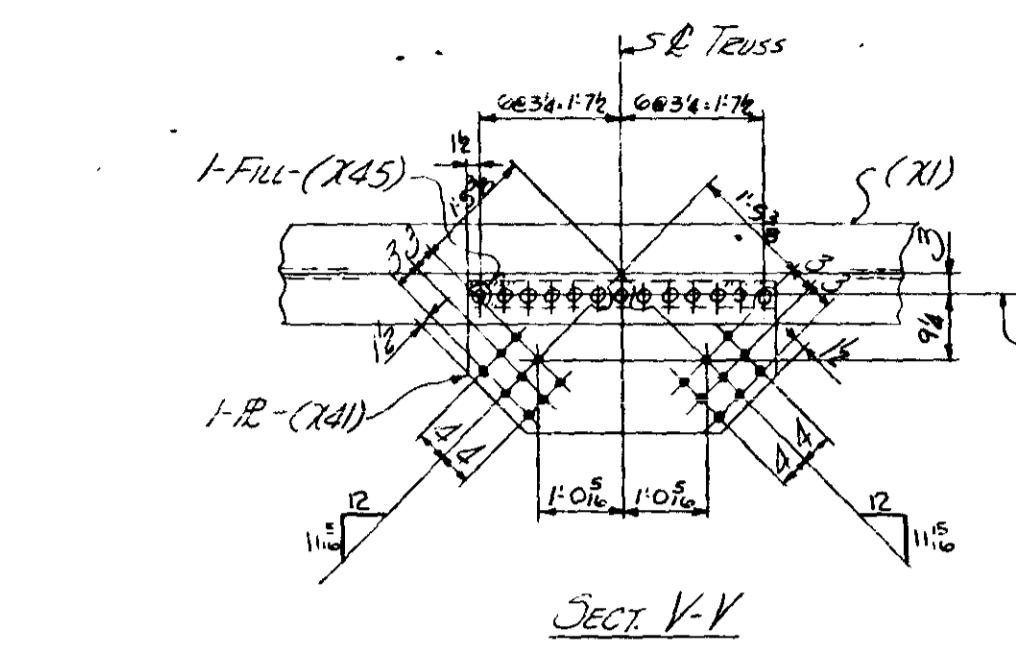
DRAWN BY	PH	DATE	2-18-62	CHECKED BY	H.M.L.	DATE	4-30-62
REVISIONS	△	10/18/66	△	2/14/67	△	2/2/67	△
CONTRACT	3142	FABCOD	244	SHEET	1411 AC		



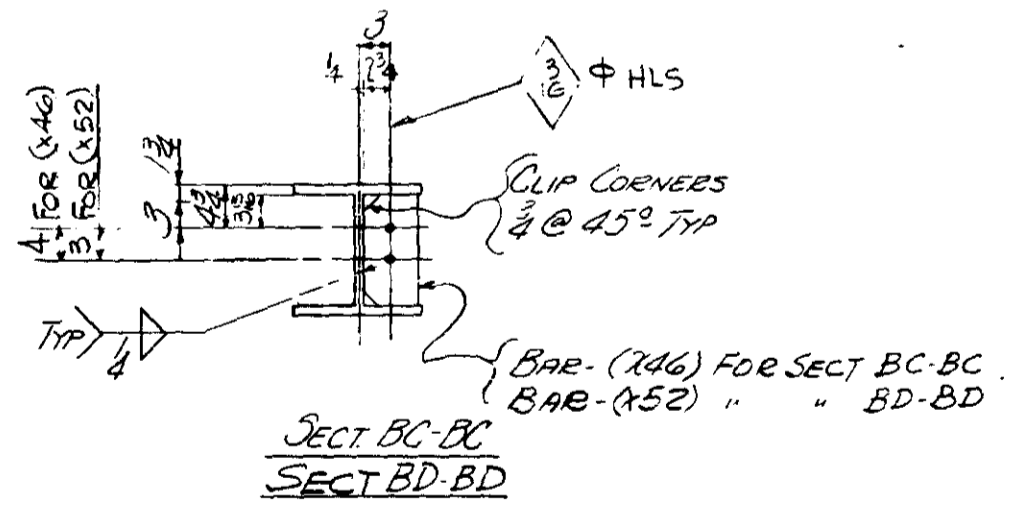
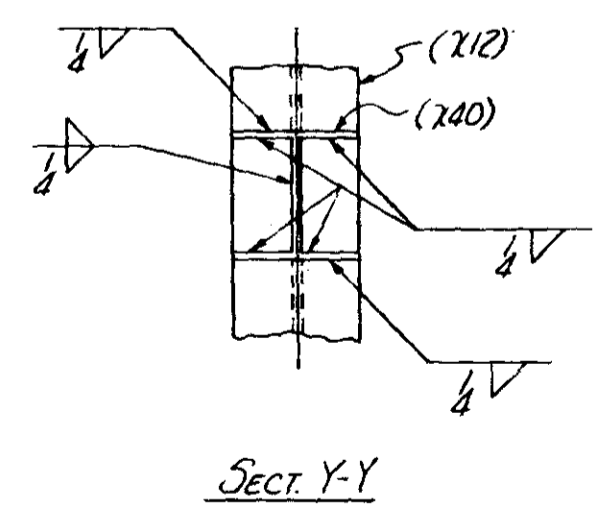
Fit Bars After Web Members Have Been Welded
1- BAR (X16)
1- BAR (X17)
1- BAR (X17)



CLIP CORNERS
3/4 @ 45° TYP



(Fit Bars After Web Members Have Been Welded)



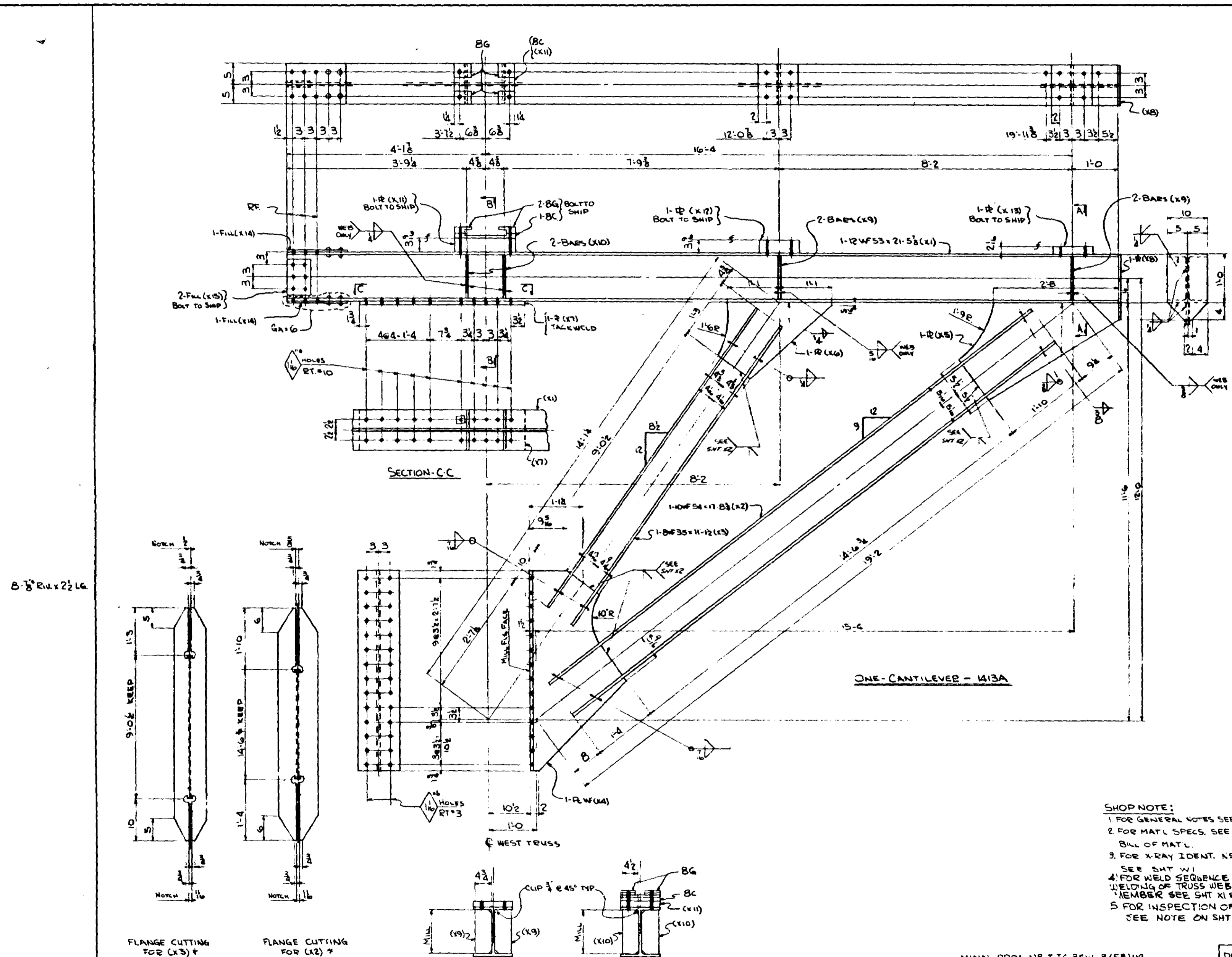
MINN PROJ NO I-1635W-3(5B)112
STATE PROJ NO 2783-9340B (TH 35W-394)

ALLIED ENGINEERS, FABRICATORS, ERECTORS
MICRO-FILMED STRUCTURAL STEEL COMPANY
1111 15TH STREET, MINNEAPOLIS, MINN.

DETAILS OF FLOOR TRUSS @ U27
STRUCTURE BRIDGE NO 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HWY DEPT.
CUSTOMER MINN. STATE HWY DEPT.

DRAWN BY	PH	DATE	2-19-66	CHECKED BY	H. M. H.	DATE	4-30-66
REVISIONS	△	10/18/66	△	△	△		

CONTRACT 3142 FANCODE 244 SHEET 1411 BC



ITEM NO.	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	QTY	TOTAL WEIGHT	MWD
1									
2									
3									
4	1	ONE CANTILEVER	(48 x 21-6)						
5									
6									
7									
8									
9	1	12WF53	21-5 1/2	X1		4501	59	1139	3306
10	1	10WF54	11-0 3/4	X2		4520	9	957	
11	1	8WF35	11-1 1/2	X3		4517		389	
12	1	R 30WF108	4-1	X4	M FLG	4408		441	
13	1	R 23 1/2	3-4 1/2	X5		4408		138	
14	1	R 19 x 8	2-4 1/2	X6		4408		58	
15	1	R 10 x 8	3-5 1/2	X7	UM	4508		88	
16	1	R 10 x 8	1-4	X8		4408		17	
17	4	BAR 4 1/2 x 1/2	0-10 1/2	X9	M2E	4420		29	
18	4	BAR 4 1/2 x 1/2	0-10 1/2	X10	M2E	4420		28	
19	1	R 10 x 3 1/2	1-3 1/2	X11	FIS	4425		159	
20	1	R 10 x 3 1/2	0-10	X12	FIS	4411		105	
21	1	R 10 x 2 1/2	0-10	X13	FIS	4412		62	
22	2	FILL 10 x 1/2	1-3	X14					
23	2	FILL 6 x 2	0-9	X15			59	3306	
24									
25									
26	1	R			SEE SHT 8 FOR DET.				
27	4	R			SEE SHT 8 FOR DET.				
28									
29									
30	1	1/2 WLD	21-0						
31	1	3/8 WLD	3-4						
32	1	3/8 WLD	23-0						
33	1	1/2 WLD	16-4						
34	8	1/2" RW							
35	10	SE							
36									
37									
38									
39									
40	2	FILL 10 x 1/2	0-9		NO PAY ITEM FOR FABRICATION		3	3331	
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ALLIED STRUCTURAL STEEL COMPANY
 1100 HENRY STREET, MINNEAPOLIS, MINNESOTA 55402
 FABRICATORS & ERECTORS

MINN. PROJ. NO. I.G. 35W-3(58)112
 STATE PROJ. NO. 2783-33408 (7435W-394)

DIVISION # 14
 CLINTON FAB.

DETAILS OF: CANTILEVER @ U27 (WEST)
 STRUCTURE: BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

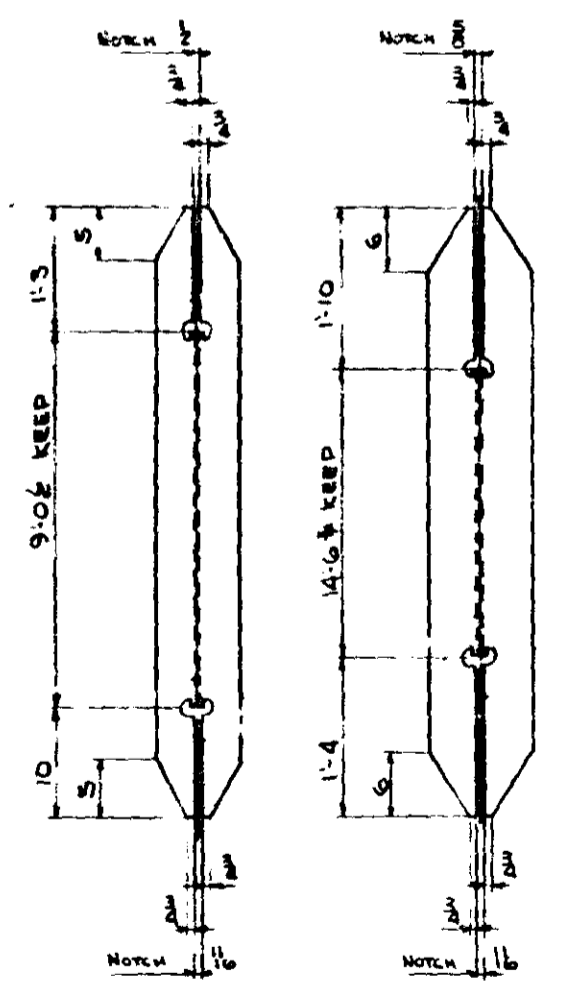
OPEN HOLES: 5" UN. RIVETS & BOLTS: 3/8" PAINT: YES, SEE SHT. GN-1

DRAWN BY: [Signature] DATE: 2-25-66 CHECKED BY: [Signature] DATE: []

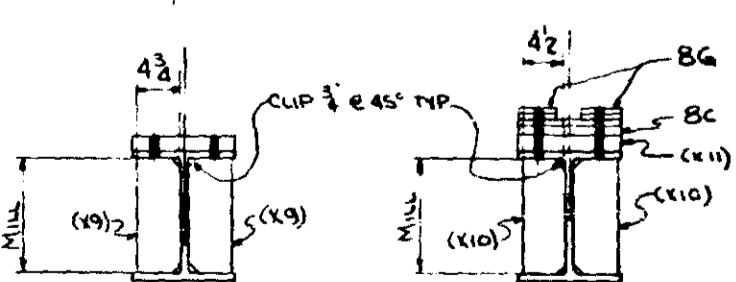
REVISIONS: [] [] [] [] []

CONTRACT 3142 FABCOD 244 SHEET 1413

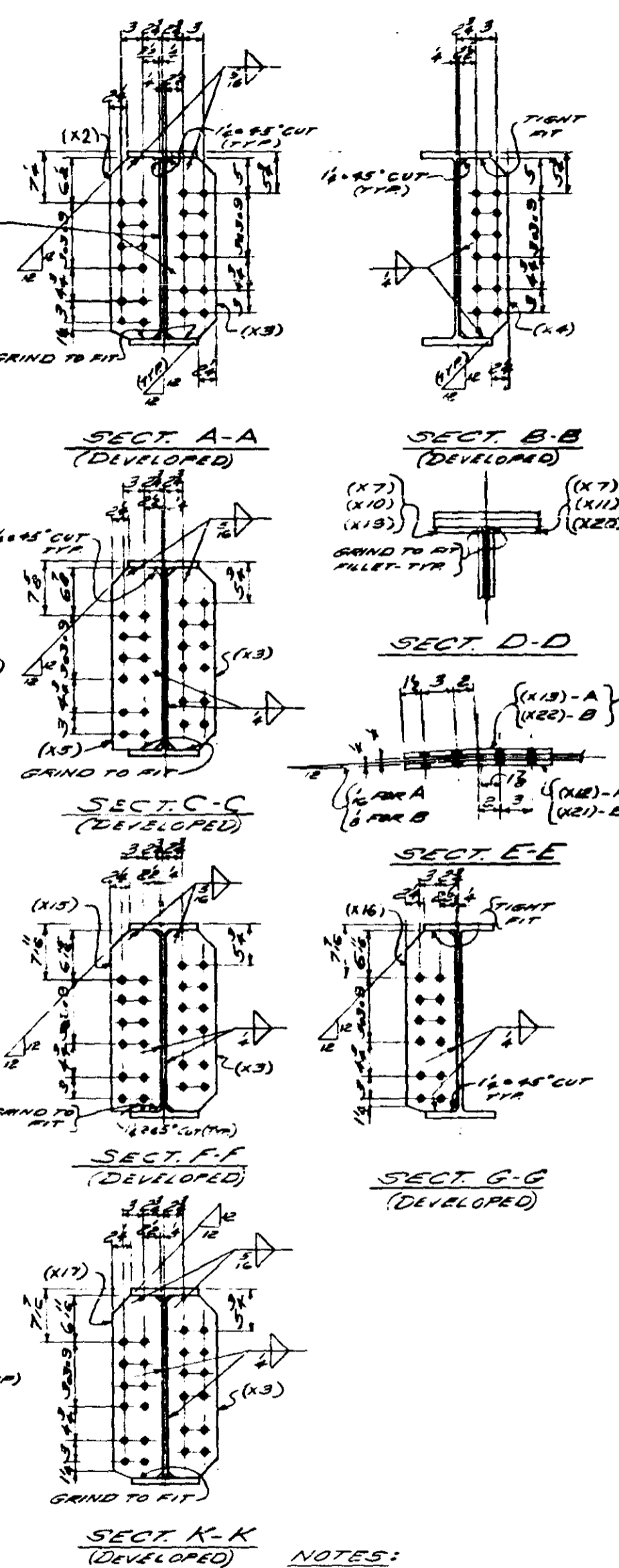
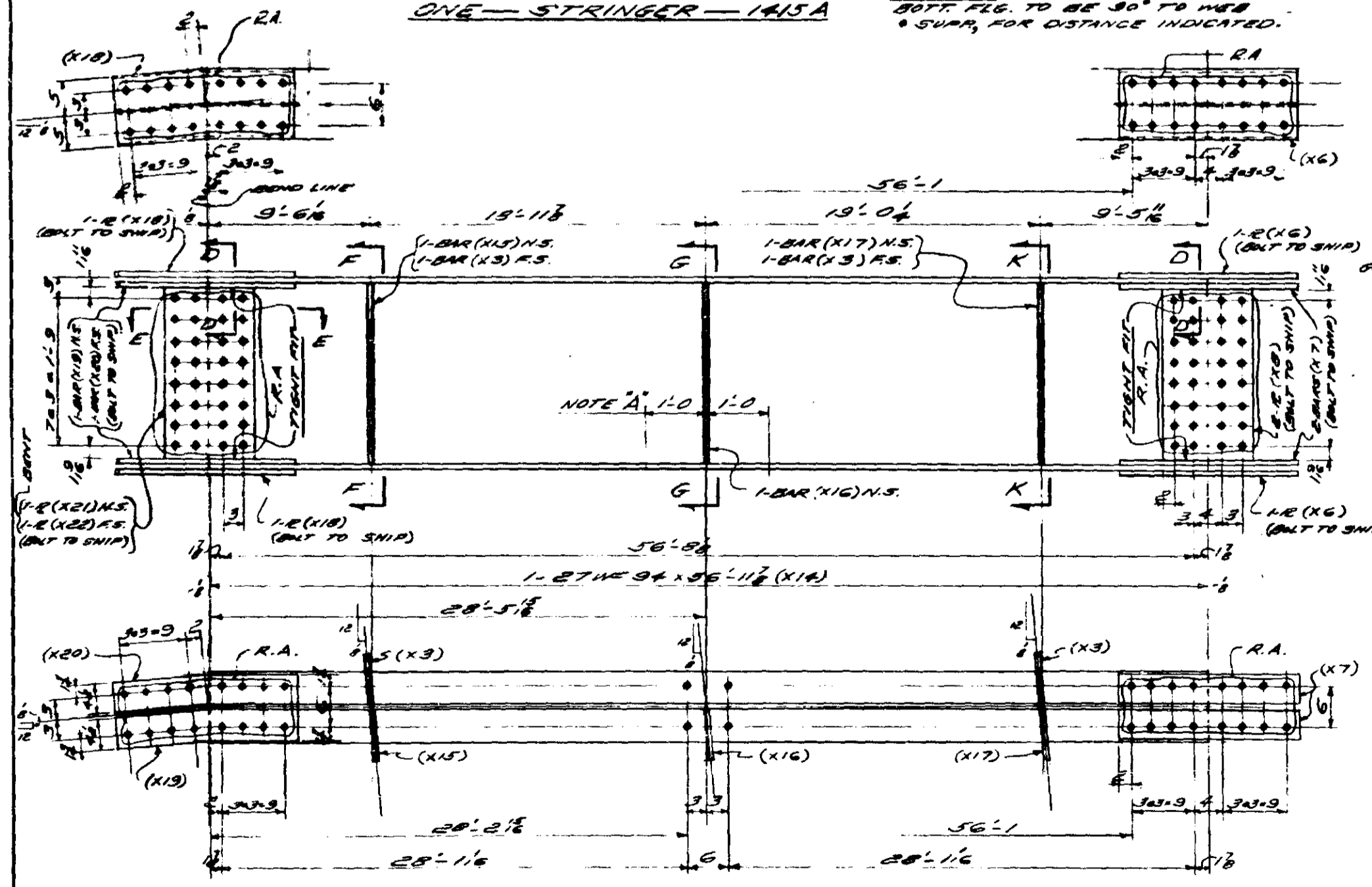
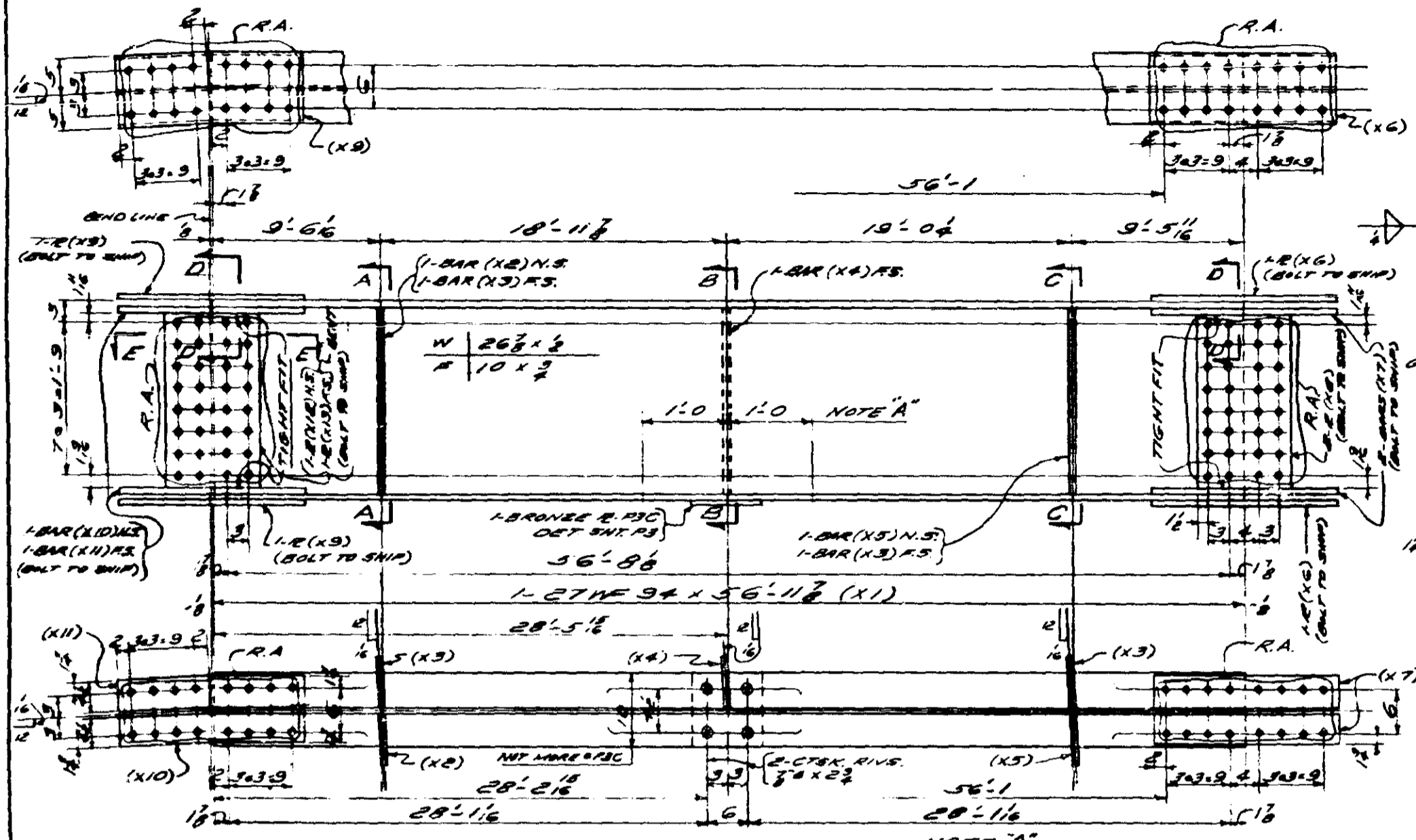
8 1/2" RW x 2 1/2" LG



* SEE SHT. X1 & X2 FOR BEVEL CUTS FOR WELDING



SECTION A-A SECTION B-B



NOTES:
 FOR MAT'L. SPEC. SEE BILL OF MAT'L.
 FOR GEN. NOTES SEE SH. 64-1.
 FOR INSPECTION OF WELDS SEE GN-1
 MINN. PROJ. NO. 5-1035N-3 (58)112
 STATE PROJ. NO. 7783-940B (TH55N-394)

ITEM NO.	QTY	SHAPE	LENGTH	PC NO.	REMARKS	ITEM NO.	TOTAL WEIGHT
1							
2							
3	1	MSA ONE STRINGER	28'-5 1/2"				
4	1	27WF 94	56'-11 1/2"	X1		53	6357
5	1	BAR 7 1/2	2'-1 1/2"	X2		53	19
6	2	BAR 7 1/2	2'-1 1/2"	X3		53	38
7	1	BAR 7 1/2	2'-1 1/2"	X4		53	19
8	1	BAR 7 1/2	2'-1 1/2"	X5		53	19
9	2	E 10 X 1/2	2'-2"	X6	U.M.	53	64
10	4	BAR 7 1/2	2'-2"	X7	U.M.	53	75
11	2	E 13 X 1/2	2'-0 1/2"	X8	U.M.	53	56
12	2	E 10 1/2 X 1/2	2'-2 1/2"	X9		53	65
13	2	BAR 7 1/2	2'-2"	X10		53	38
14	2	BAR 7 1/2	2'-2 1/2"	X11		53	38
15	1	E 13 X 1/2	2'-0 1/2"	X12		53	28
16	1	E 13 X 1/2	2'-0 1/2"	X13		53	28
17	1	BRASS P			DR. SH. 15		
18	4	CTSK. ANG.					NC
19	20	S.B.					
20	1	1/2" HLD.	2'-0"				NC
21	1	1/2" HLD.	20'-0"				NC
22							
23							
24							
25							
26							
27							
28	1	MSA ONE STRINGER	28'-5 1/2"				
29	1	27WF 94	56'-11 1/2"	X14		53	6357
30	1	BAR 7 1/2	2'-1 1/2"	X15		53	19
31	2	BAR 7 1/2	2'-1 1/2"	X16		53	38
32	1	BAR 7 1/2	2'-1 1/2"	X17		53	19
33	1	BAR 7 1/2	2'-1 1/2"	X18		53	19
34	2	E	X6	U.M.		53	64
35	4	BAR 7 1/2	X7	U.M.		53	75
36	2	E	X8	U.M.		53	56
37	2	E 10 1/2 X 1/2	2'-2 1/2"	X9		53	65
38	2	BAR 7 1/2	2'-2"	X10		53	38
39	2	BAR 7 1/2	2'-2 1/2"	X11		53	38
40	1	E 13 X 1/2	2'-0 1/2"	X12		53	28
41	1	E 13 X 1/2	2'-0 1/2"	X13		53	28
42	20	S.B.					NC
43							
44	1	1/2" HLD.	2'-0"				NC
45	1	1/2" HLD.	20'-0"				NC
46							
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ALLIED STRUCTURAL STEEL COMPANY
 1000 WEST STREET, HAMMOND, INDIANA 46320

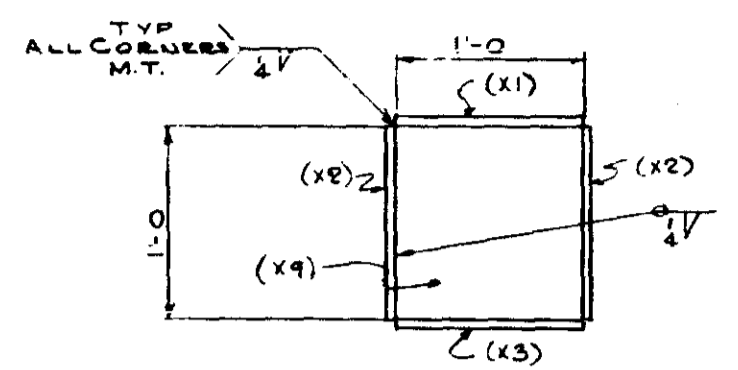
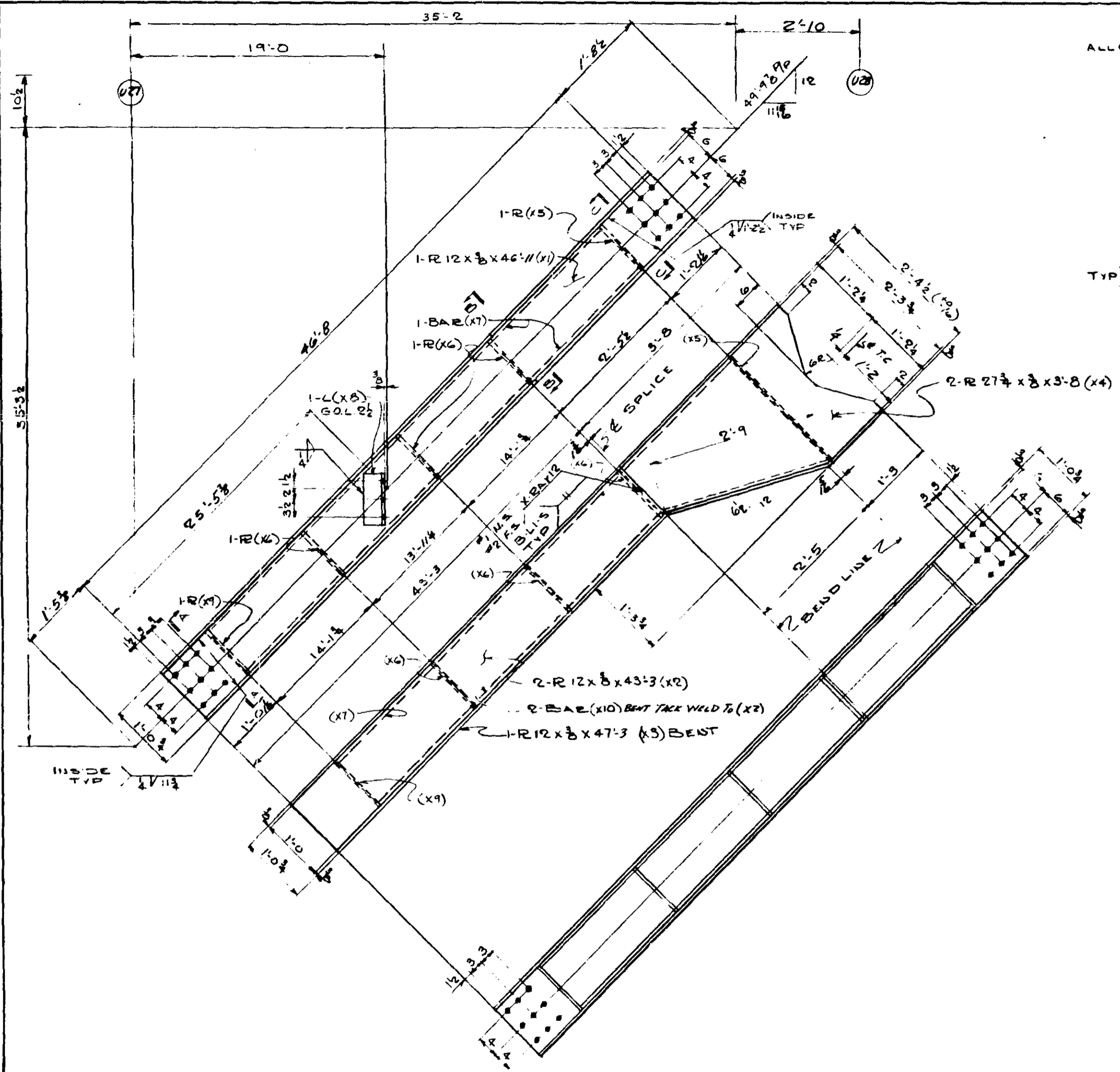
DETAILS OF STRINGERS - RR U26
 STRUCTURE BRIDGE NO 3340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.

DIVISION #14
 HAMMOND FAB.
 YES, SEE PAINT SHEET 64-1

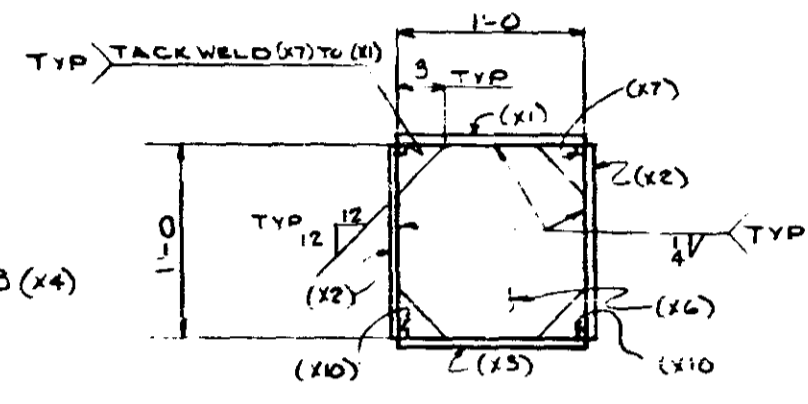
OPEN HOLES 1/2" RIVETS & BOLTS PAINT SHEET 64-1

DATE 2-29-66 CHECKED BY K.L.K. DATE 3-10-66

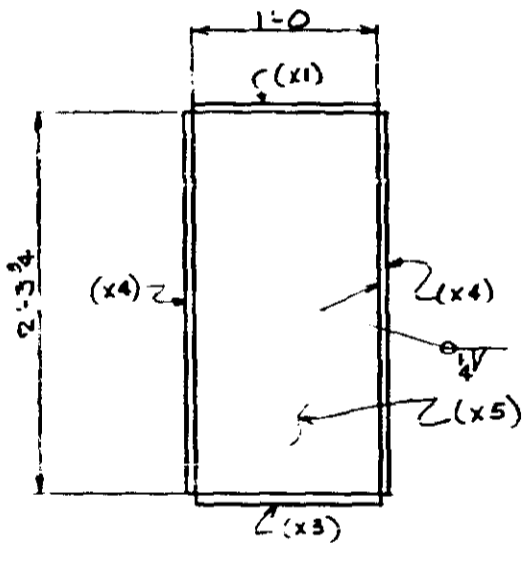
CONTRACT 3142 FABCOD 274 SHEET 1415



SECTION A-A



SECTION B-B



SECTION C-C

ONE-LATERAL BRACE-1416A
 ONE- D_o D_o -1416A

SHOD NOTE
 FORGED NOTES
 SEE GNI
 FOR MAT'L SPECS
 SEE BILL MAT'L
 FOR INSPECTION OF WELDS - SEE NOTE - SHY GNI

MINN. PROJ. NO. I-IG 35W-3(5B)112
 STATE PROJ. NO. 2783-33408 (TH35W-394)
 HAMMOND FAB

OPEN HOLES 15"
 RIVETS & BOLTS
 PAINT: ESS SHY GNI

DRAWN BY: M.H. DATE: 2-25-66 CHECKED BY: H.M.H. DATE: 4-30-66

REVISIONS: Δ Δ Δ Δ

ITEM NO.	QTY	SHIP MK	NO. SECS	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO.	TOTAL WEIGHT
1									
2									
3									
4									
5	1416A	ONE		LATERAL BRACE	(29 X 47) 0				
6	1416A	ONE		D _o	(29 X 47) 0				
7	2			R 12x8	46' 11"	X1		2623	59
8	4			R 12x8	43' 3"	X2		2623	7697
9	2			R 12x8	47' 3"	X3	BENT	2624	1946
10	4			R 27 1/2 x 3	3' 8"	X4		2710	519
11	2			R 12x8	2' 3 1/2"	X5		2711	71
12	6			R 12x8	1' 0"	X6		2712	92
13	4			BAR 3/8 x 3	44' 7 1/2"	X7		2713	86
14	2			L 3 1/2 x 4 x 3/8	0' 11 1/2"	X8		2714	16
15	2			R 12x8	1' 0"	X9		2715	51
16	4			BAR 3/8 x 3	44' 1 1/2"	X10	BENT	2716	86
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BID ITEM 59 = 690

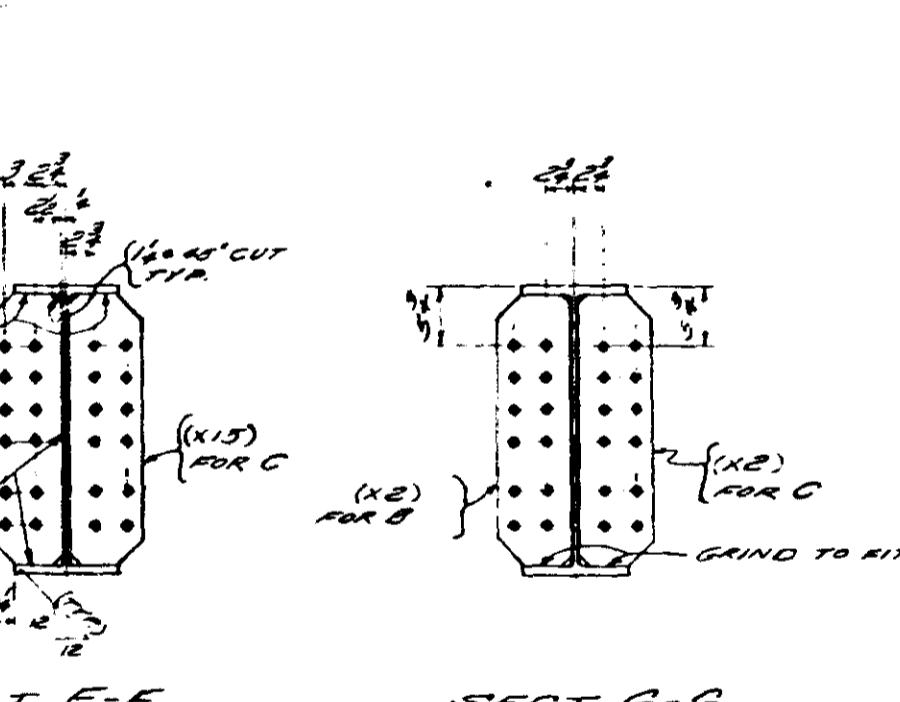
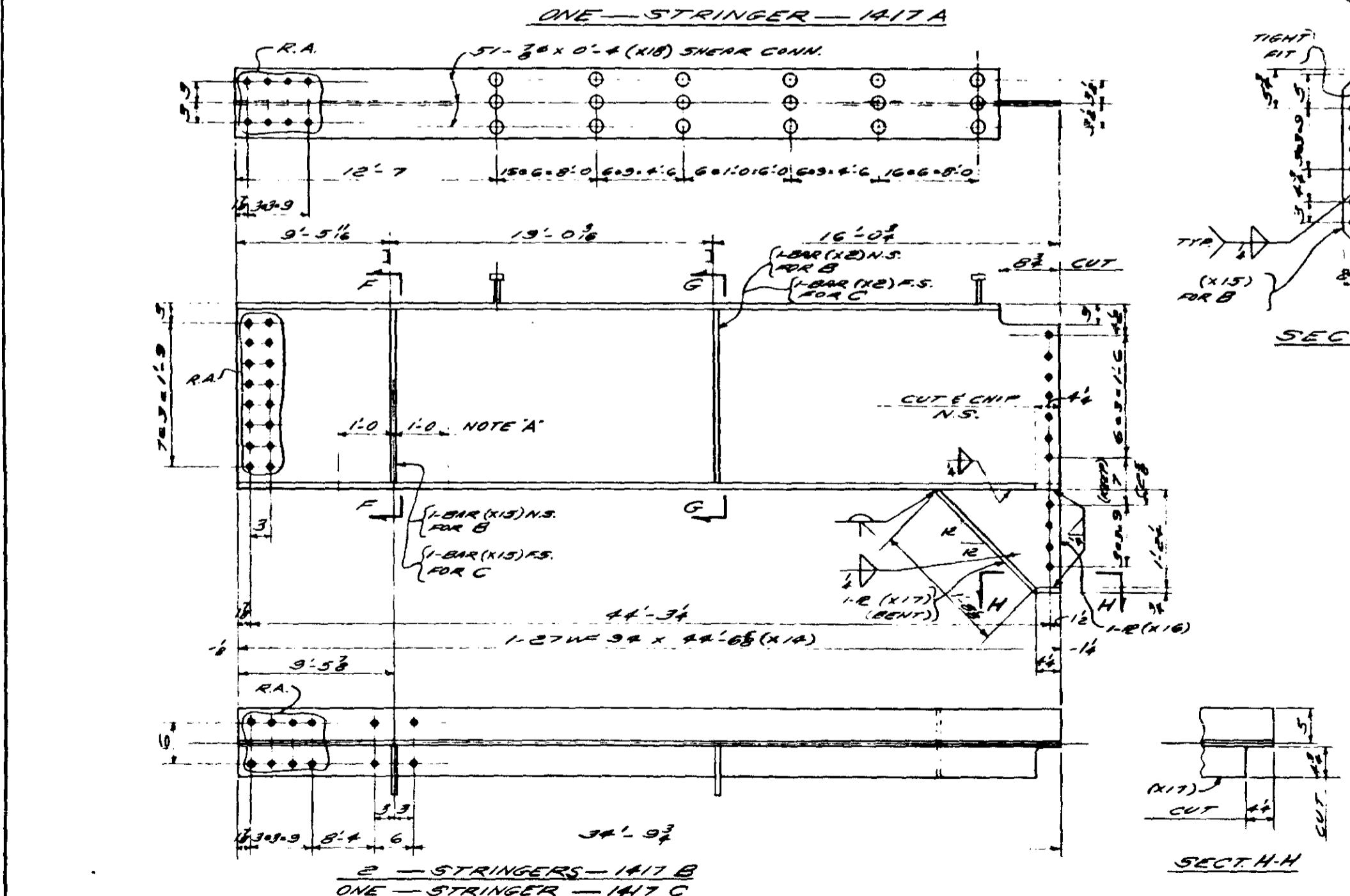
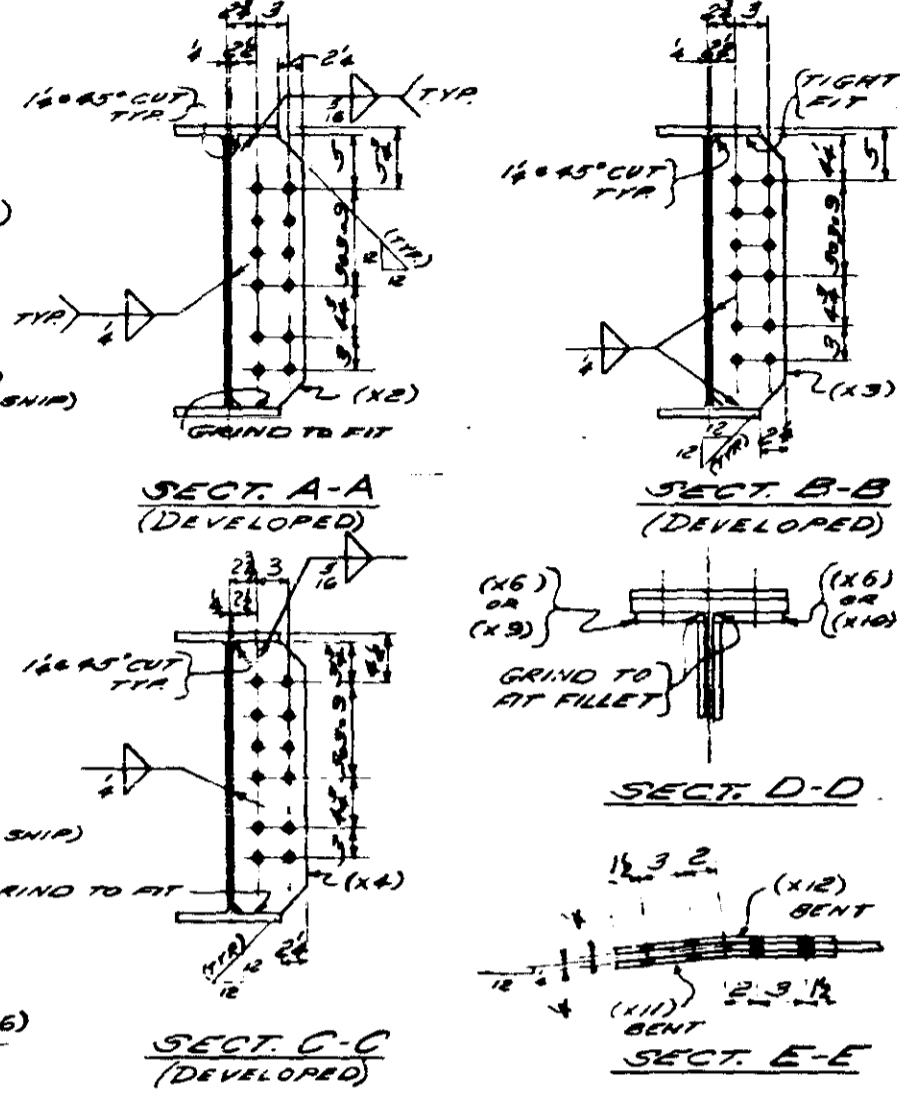
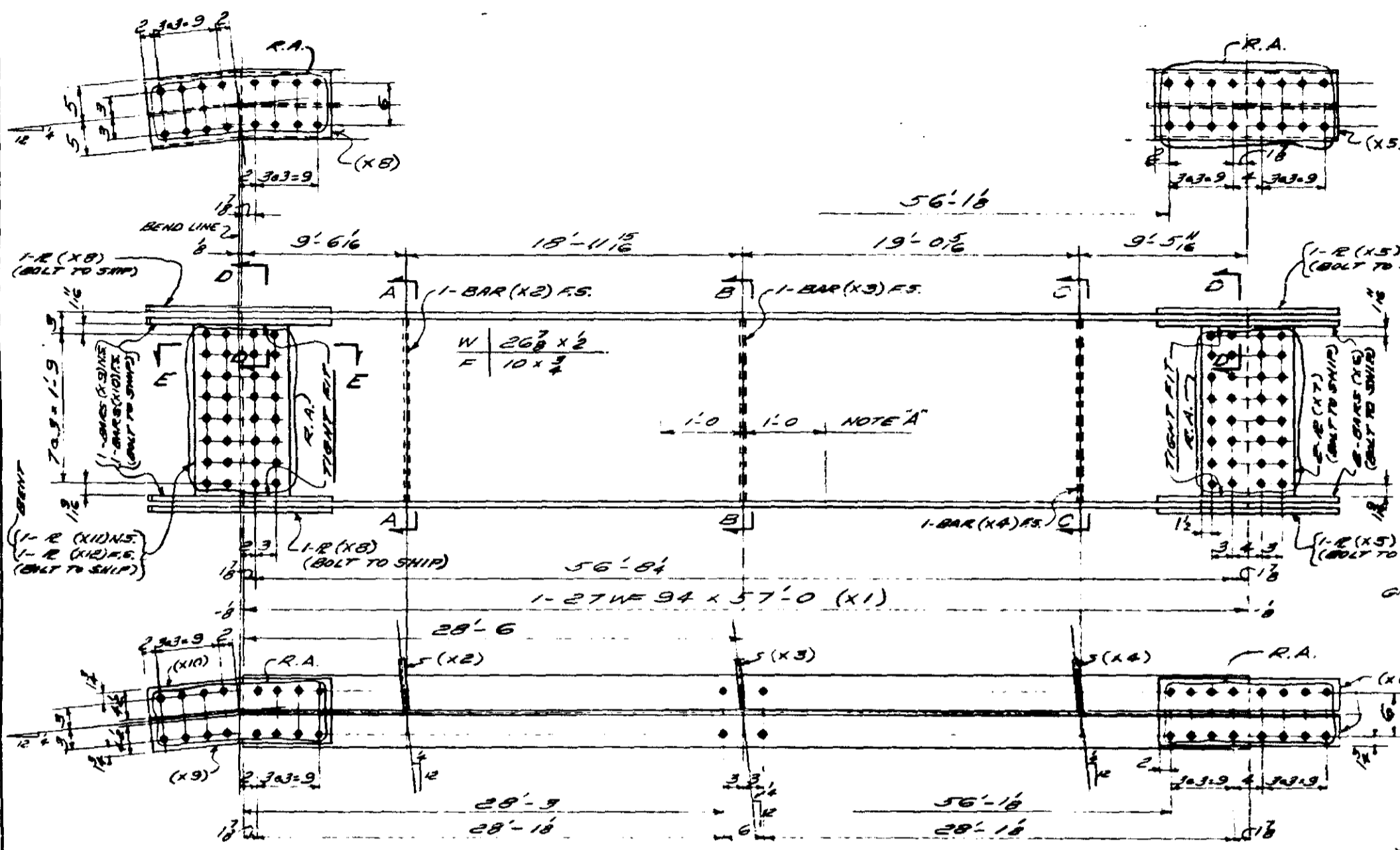
DIV 14

ALLIED STRUCTURAL STEEL COMPANY
 1400 10TH STREET, HAMMOND, INDIANA 46320

DETAILS OF: **TOP LATERAL BRACING (27-28)**
 STRUCTURE: **BRIDGE # 9540**

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

CONTRACT **3142** FABCO **264** SHEET **1416**



NOTES:
 FOR MAT'L. SPEC. SEE BILL OF MAT'L.
 FOR GEN. NOTES SEE SHT GN-1.
 FOR INSPECTION OF WELDS SEE NOTE ON SHT GN-1

NOTE A
 BOTT. FLG. TO BE 90° TO WEB
 & SUPP. FOR DISTANCE INDICATED.

LINE NO.	SHIP NO.	NO. REQD.	SHAPE	LENGTH	PC. NR.	REMARKS	ITEM NO.	TOTAL WEIGHT
1								
2								
3								
4			1/4" DIA. STRINGER			(28' x 53'-2")		
5		1	27W 94	57' 0"	X1		538	5380
6		1	BAR 7 x 3/8	2' 1 1/2"	X2		19	
7		1	BAR 7 x 3/8	2' 1 1/2"	X3		19	
8		1	BAR 7 x 3/8	2' 1 1/2"	X4		19	
9		2	2" 10 x 1 1/2	2' 2"	X5	U.M.	7029	69
10		4	2 BARS 2 1/2 x 1 1/2	2' 2"	X6	U.M.	7029	75
11		2	2" 13 x 1 1/2	2' 0 1/2"	X7	U.M.	7029	56
12		2	2" 10 x 1 1/2	2' 2"	X8		5906	66
13		2	2 BARS 2 1/2 x 1 1/2	2' 2"	X9		5907	39
14		2	2 BARS 2 1/2 x 1 1/2	2' 2"	X10		5907	40
15		1	2" 13 x 1 1/2	2' 0 1/2"	X11	U.M. (BENT)	5907	28
16		1	2" 13 x 1 1/2	2' 0 1/2"	X12	U.M. (BENT)	5907	28
17								
18		20	S.S.					N.C.
19								
20		1	1/2" WLD.	2' 0"				N.C.
21		1	1/2" WLD.	12' 0"				N.C.
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32		2	STRINGERS			(28' x 44'-7")		
33		1	WTC WTC STRINGER			(28' x 44'-7")		
34		3	27W 94	64' 6"	X14		7021	1264
35		3	BARS		X2		7029	57
36		3	BARS 7 x 3/8	2' 1 1/2"	X15		7029	57
37		3	2" 10 x 1 1/2	1' 6 1/2"	X16		7029	42
38		3	2" 10 x 1 1/2	2' 0 1/2"	X17	BENT	7029	159
39								
40		103	27W 94	0' 8"	X18	U.M. (BENT)	7029	234
41								
42								
43		3	5/8" WLD.	0' 8"				N.C.
44		3	5/8" WLD.	15' 8"				N.C.
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1117 13TH STREET, MINNEAPOLIS, MINN. 55403

DETAILS OF **STRINGERS - RD USG & RR RUT**
 STRUCTURE **BRIDGE NO. 3390**
 LOCATION **MINNEAPOLIS, MINNESOTA**
 OWNER **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER **MINNESOTA STATE HWY. DEPT.**

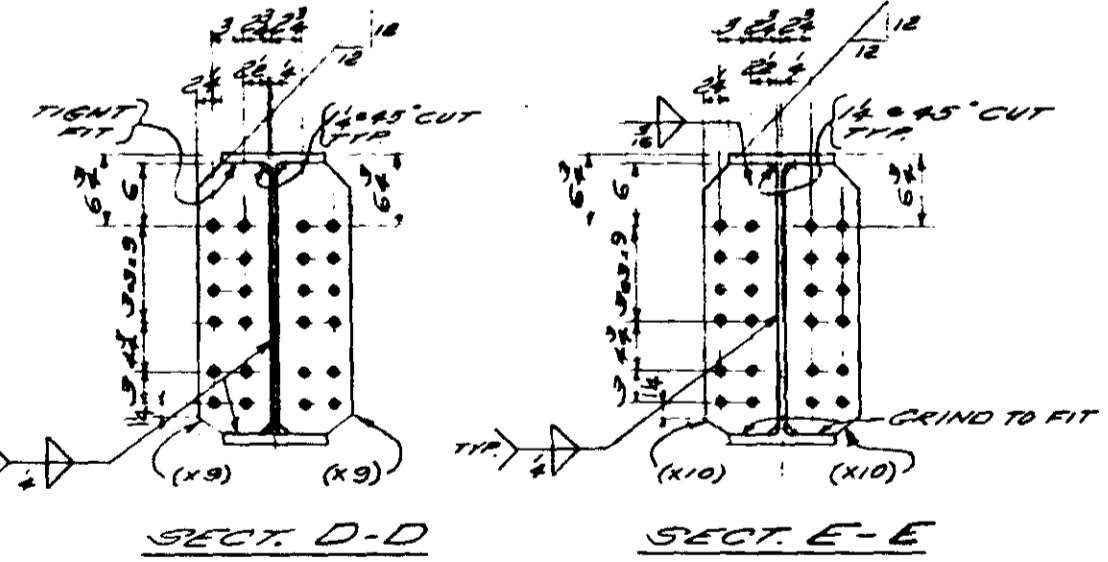
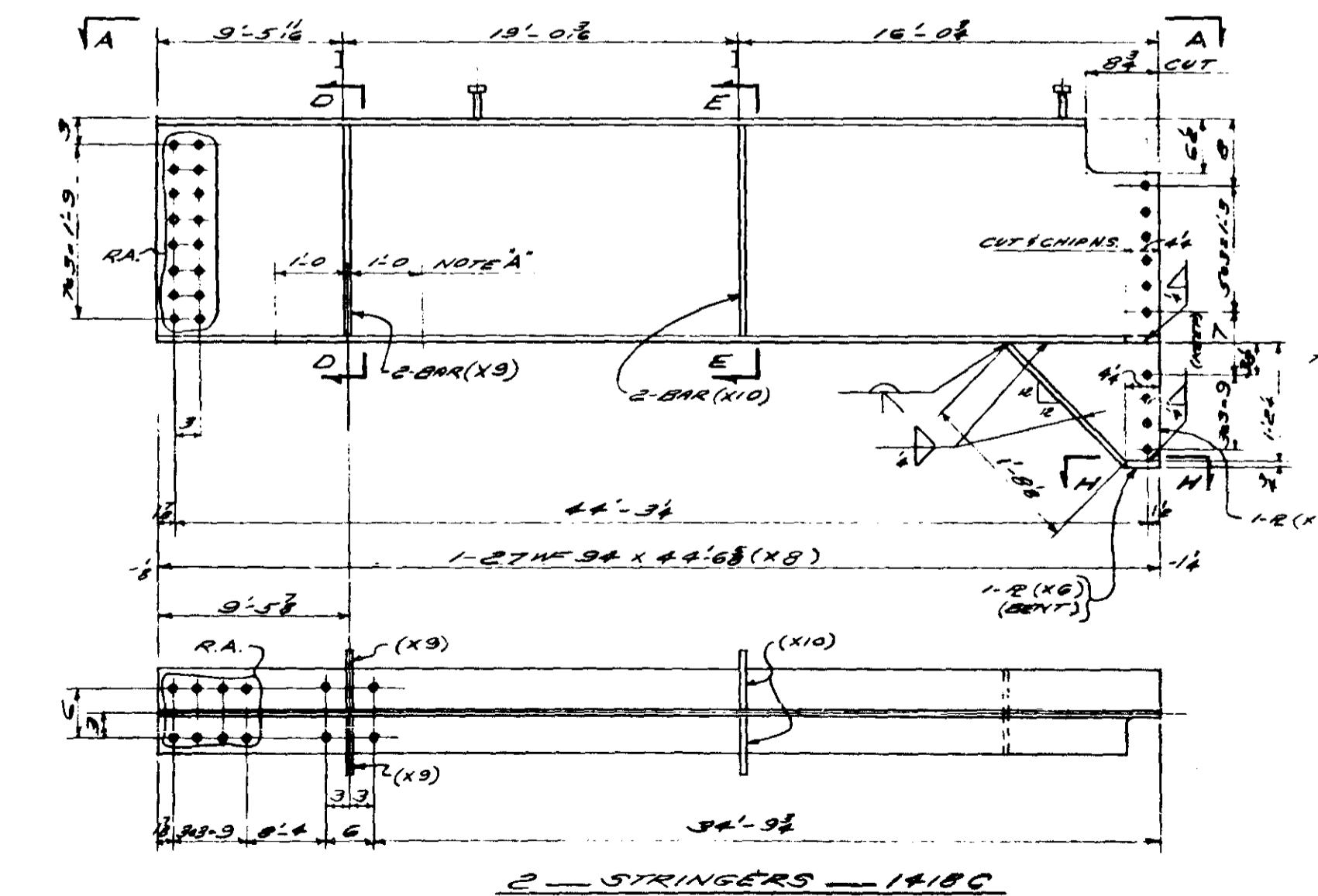
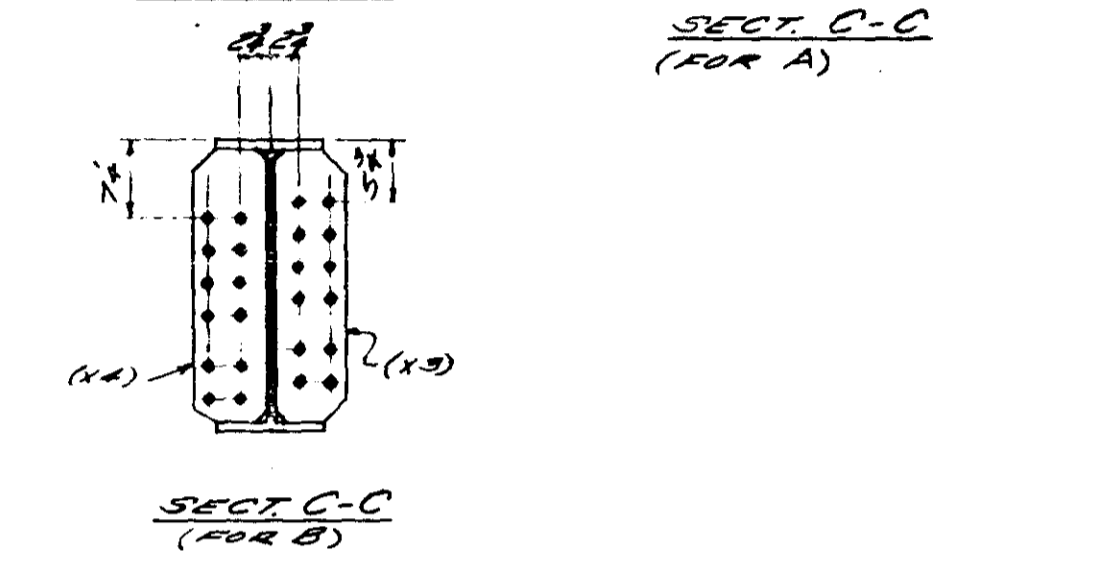
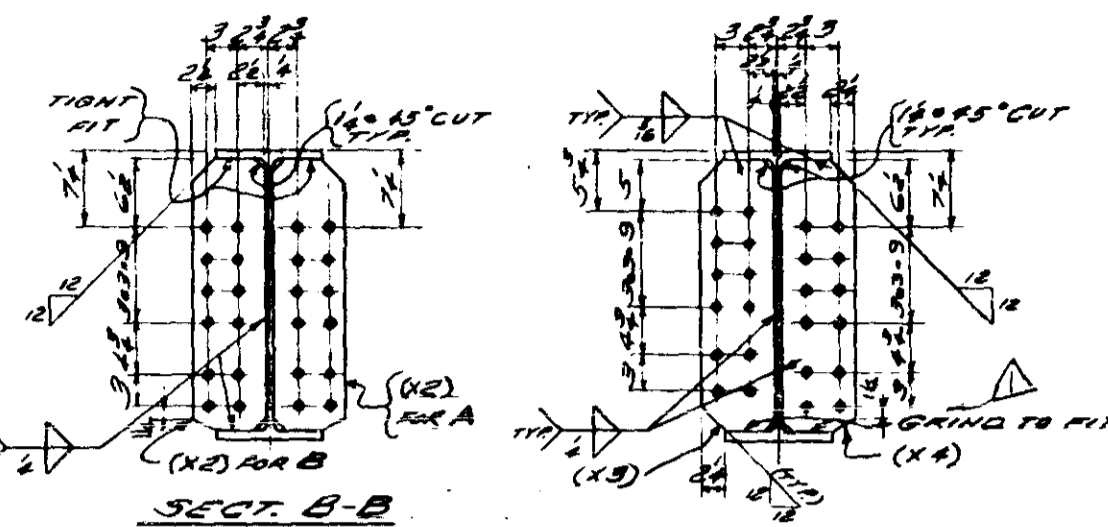
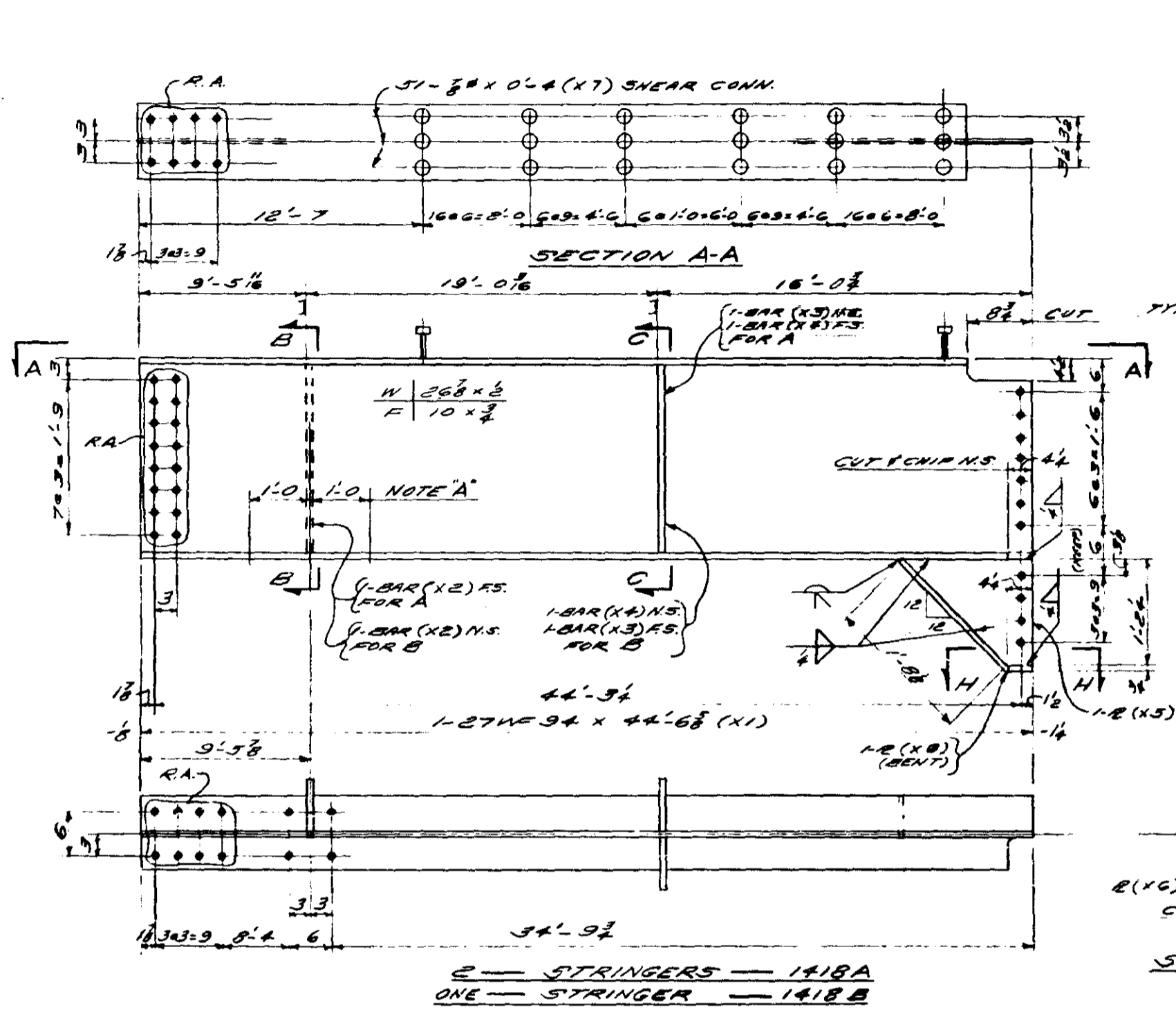
MINN. PROV. NO. I-1635W-3(58)112 DIVISION **#4**
 STATE PROV. NO. 2783-93403 (7435W-394) **HAMMOND #4B.**

OPEN HOLES **15"** RIVETS & BOLTS **---** PAINT **SEE SHT. 10, GN-1**

DRAWN BY **TL** DATE **2/25/66** CHECKED BY **K.L.M.** DATE **3/10/66**

REF. DWG. **69** REVISIONS **ADDED 3-2-66** **REVISED 3-21-67**

CONTRACT **3142** FARCOD **274** SHEET **1417**



NOTES
 FOR MAT'L SPEC. SEE BILL OF MAT'L.
 FOR GEN. NOTES SEE SHT. GN-1.
 FOR INSPECTION OF WELDS SEE NOTE ON SHT. GN-1.
NOTE A
 BOTT. FLG. TO BE 90° TO WEB & SUPP.,
 FOR DISTANCE INDICATED.

LINE	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	
	NO	REQD			NO.		NO.	WEIGHT	
1									
2									
3									
4	W8A	2	STRINGERS	(46' x 44'-7")					
5	W8B	1	STRINGER	(46' x 44'-7")					
6	3	27W94	44'-6 1/2"	X1			721	59	1254
7	3	BAR 7 x 8	2'-1 1/2"	X2			720	1	57
8	3	BAR 7 x 8	2'-1 1/2"	X3			720	1	57
9	3	BAR 7 x 8	2'-1 1/2"	X4			720	1	57
10	3	2-#8 x 6	1'-6 1/2"	X5			717	1	162
11	3	2-#10 x 6	2'-0 1/2"	X6	BENT		716	1	155
12	300	SHEAR CONN.	0	X7	TYPE 337		721	59	234
13									
14									
15	3	1/2" HLD	1	A					NC
16	3	1/2" HLD	18	B					NC
17									
18									
19									
20									
21									
22									
23									
24									
25									
26	W8C	2	STRINGERS	(46' x 44'-7")					
27	2	27W94	44'-6 1/2"	X8			721	59	8376
28	4	BAR 7 x 8	2'-1 1/2"	X9			720	1	75
29	4	BAR 7 x 8	2'-1 1/2"	X10			720	1	75
30	2	2-#8 x 6	1'-6 1/2"	X11			717	1	47
31	2	2-#10 x 6	2'-0 1/2"	X12	BENT		716	1	104
32	300	SHEAR CONN.	0	X13	TYPE 337		721	59	156
33									
34									
35	2	1/2" HLD	1	A					NC
36	2	1/2" HLD	23	B					NC
37									
38									
39									
40									
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1415 15TH STREET, MINNEAPOLIS, MINN. 55402

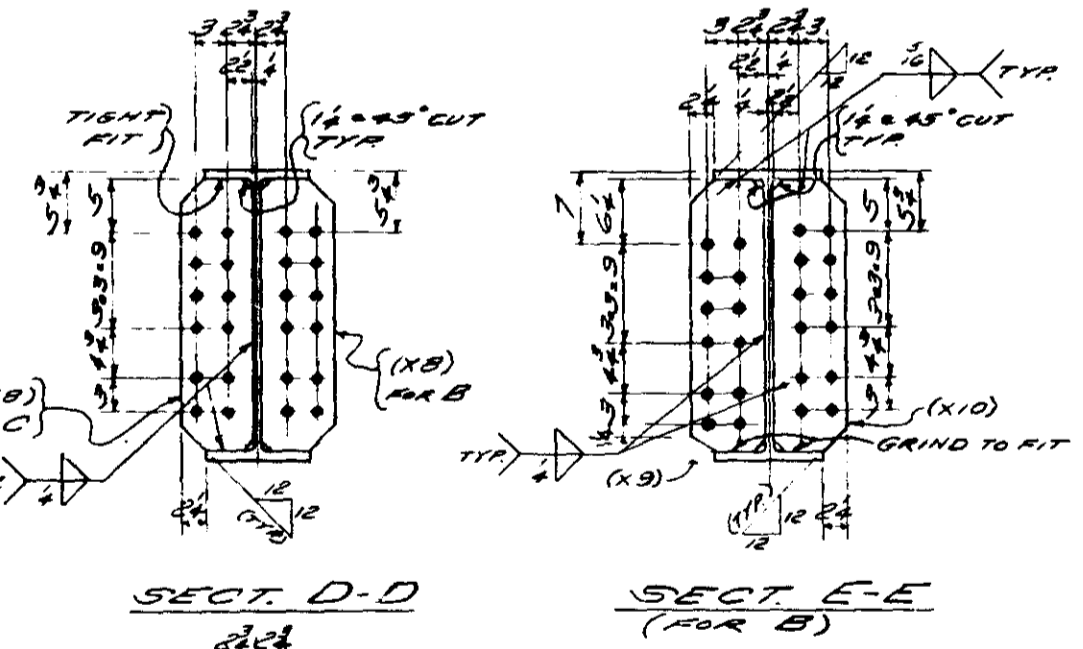
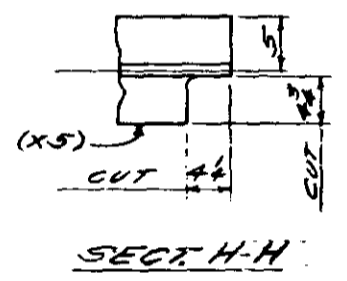
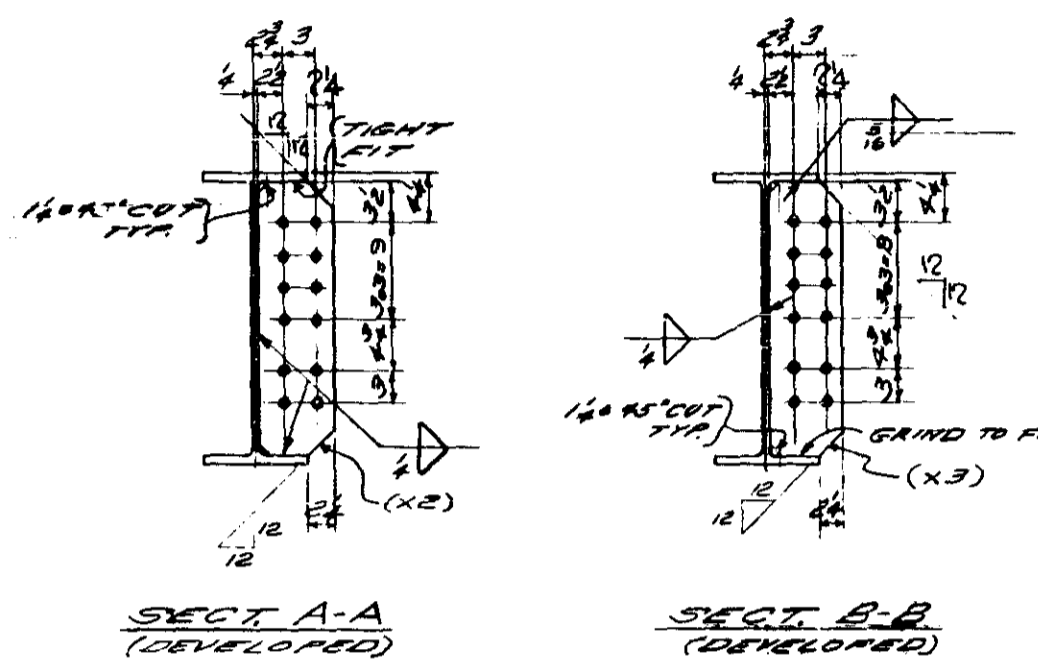
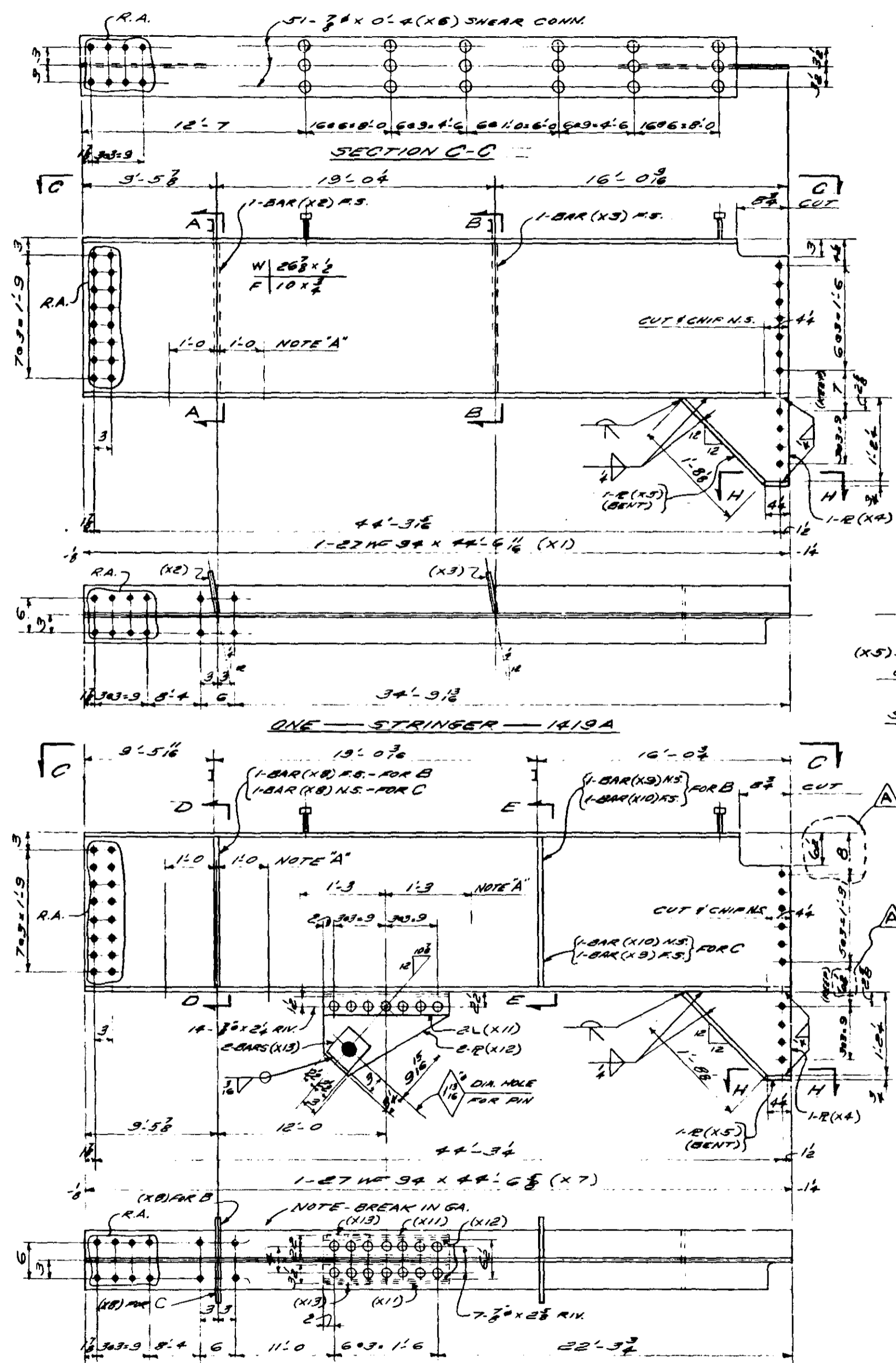
DETAILS OF **STRINGERS - FR 1418**
 STRUCTURE **BRIDGE NO. 3840**
 LOCATION **MINNEAPOLIS, MINNESOTA**
 OWNER **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER **MINNESOTA STATE HWY. DEPT.**

MINN. PROJ. NO. **F-1635W-3 (38) 112** DIVISION **14**
 STATE PROJ. NO. **273-7810B (7N35W-394)** **HAWAIIAN RD.**

OPEN HOLES **1 1/2"** RIVETS & BOLTS **—** PAINT **SWT. NO. 811**
 YES, SEE **—**
 DRAWN BY **KL** DATE **3-1-66** CHECKED BY **L.O.** DATE **3-28-66**

REVISIONS **10/1/66** **△** **△** **△** **△**

CONTRACT **3142** FABCOD **274** SHEET **1418**



NOTES:
 FOR MAT'L SPEC. SEE BILL MAT'L.
 FOR GEN. NOTES SEE SMT. SN. 1.
 FOR INSPECTION OF WELDS SEE NOTE ON SN. 1.
 NOTE "A"
 BOTH PLS. TO BE 90° TO WEB
 & SUPR. FOR DISTANCE INDICATED.

NO.	SHIP MK.	NO. REQD.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	NET WT.
1									
2									
3	MSA	ONE	STRINGER			(66' X 66'-7")			
4		1	27 WF 94	44.65	X1		7021	53	4188
5		1	BAR 7 X 8	2 1/2	X2		7021		19
6		1	BAR 7 X 8	2 1/2	X3		7021		19
7		1	BAR 7 X 8	1 1/2	X4		7017		NC
8		1	BAR 7 X 8	2 0/2	X5 (BENT)		7016		52
9	MSA	ONE	STRINGER	0	X6	TYPE 33F	7021	53	48
10									
11		1	3" WLD.	0	8				NC
12		1	2" WLD.	14	0				NC
13									
14						* MULTICUT WITH P(N2) ON SH. 140Z (11R144X11-1112)			
15									
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28									
29									
30	MSB	ONE	STRINGER			(66' X 66'-7")			
31	MSC	ONE	STRINGER			(66' X 66'-7")			
32		2	27 WF 94	44.65	X7		7021	53	8376
33		2	BAR 7 X 8	2 1/2	X8		7020		38
34		2	BAR 7 X 8	2 1/2	X9		7020		38
35		2	BAR 7 X 8	2 1/2	X10		7020		38
36		2	BAR 7 X 8	1 1/2	X11		7017		47
37		2	BAR 7 X 8	2 0/2	X12 (BENT)		7016		104
38		1	L 4 X 3 1/2 X 1/2	1	10	X13	7002		67
39		1	E 12 1/2 X 3 1/2	1	10	X14	7002		175
40		1	BAR 5 X 8	0	5	X15	7007		10
41	MSA	ONE	STRINGER	0	X16	TYPE 33F	7021	53	156
42		56	RIV 3/8"						NC
43		2	3" WLD.	3	7				
44		2	2" WLD.	1	4				
45		2	2" WLD.	18	6				
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ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1125 10TH STREET, HAMMOND, INDIANA 46320

MINN. PROJ. NO. 2785 2540B (MNS 1354)
 STATE PROJ. NO. 2785 2540B (MNS 1354) HAMMOND BRG.

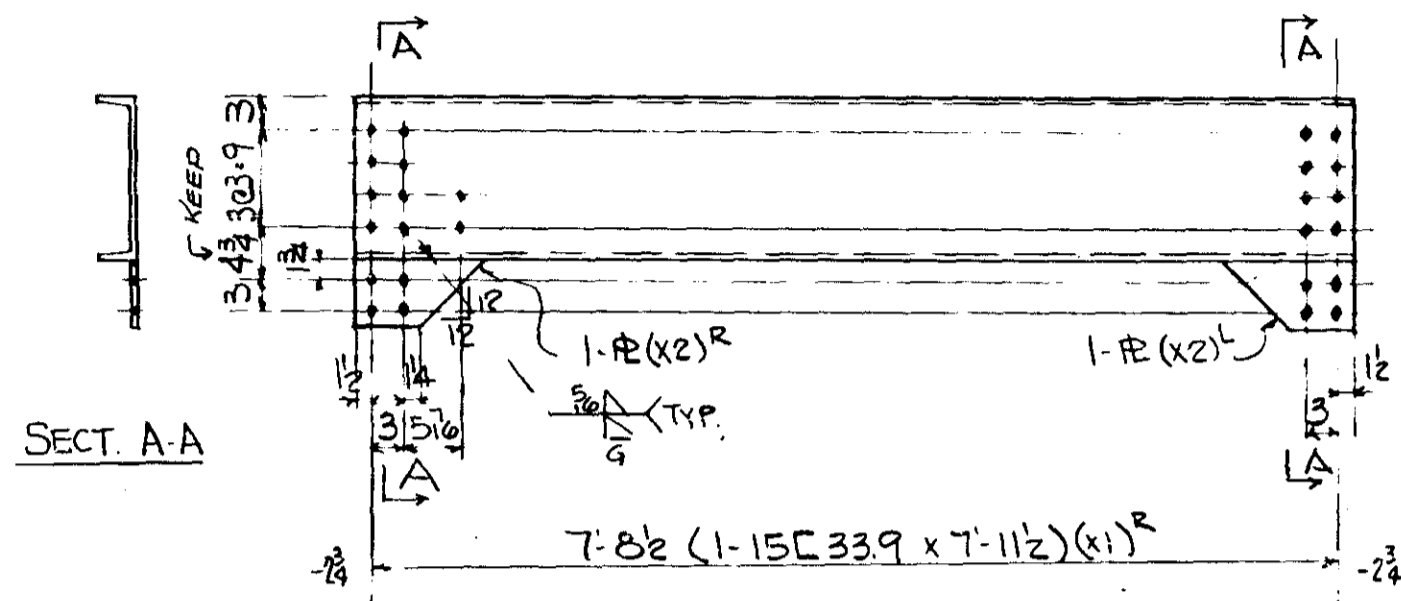
DIVISION 14
 STRUCTURE: BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

OPEN HOLES: 1/2" U.N. RIVETS: 7/8" PAINT: 705 588
 SN-1

DRAWN BY: RL DATE: 3-5-66 CHECKED BY: L.O. DATE: 3-28-66

CONTRACT 3142 FABCOD 274 SHEET 1419

REV.	DATE	DESCRIPTION
1	12-2-66	
2		
3		
4		



ONE - DIAPHRAGM - 1420A^R
 ONE do ~ 1420A^L

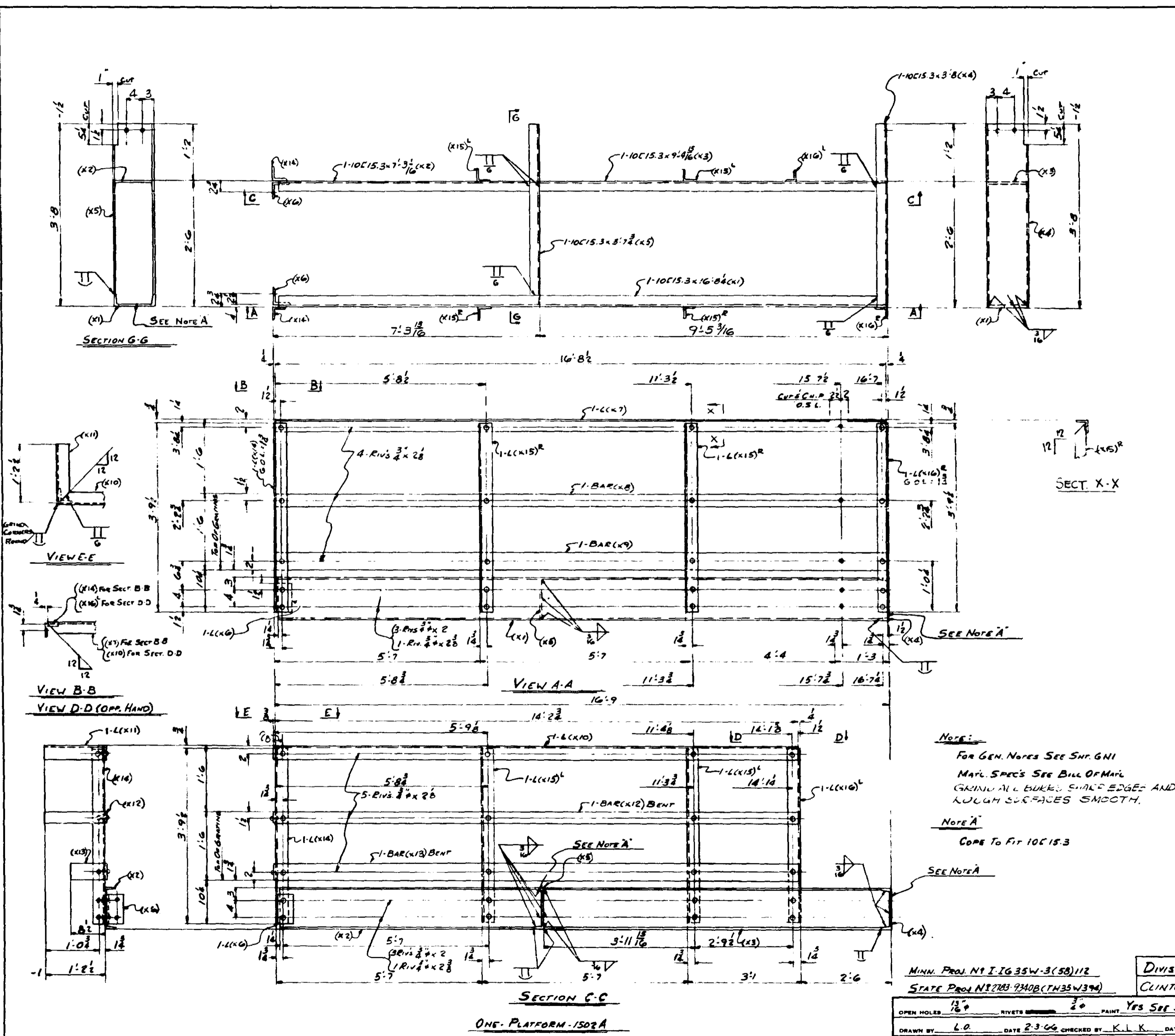
LINE NO.	NO. REQ.	DESCRIPTION	LENGTH	ADD. FIN. TRIM			MARK	MATERIAL SPEC.	REMARKS	ITEM NO.	WEIGHT	PAY ITEM
				W	T	L						
1	ONE	DIAPHRAGM					1420A ^R					
2	ONE	do					1420A ^L					
3												
4	2	15C 33.9	7 11 1/2				X1 ^R	3304		6002	540	59
5	4	#6 x 3/8	0 11 1/2				X2 ^L	3304	REC. 150 COUNTS PER LINE 5	6003		59
6	1	#6 x 3/8	3 0					3304	PER LINE 5		23	59
7												
8	2	#6 WLD	2 0									NE
9												
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51		BID ITEM	59	=							563	
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SHOP NOTES:
 FOR GEN. NOTES SEE SHT GN-1
 FOR MATL. SPECS. SEE BILL OF MATL.
 FOR INSPECTION OF WELDS SEE
 NOTE ON SHT GN-1
 15/16" OPEN HLS

MINN. PROJ. I-IG 35W-3 (58) 112
 STATE PROJ. 2783-9340B (35W-394)

ALLIED ENGINEERS FABRICATORS Erectors
MICRO-FILMED STRUCTURAL STEEL COMPANY
 1420 10TH STREET, HARBOR, MINN. 55404

REVISIONS	DRAWN BY _____ DATE _____	DETAILS OF <u>DIAPHRAGMS</u>
	CHECKED BY <u>GN</u> DATE <u>9/27/66</u>	STRUCTURE <u>BRIDGE NO. 9340</u>
	IN CHARGE OF _____	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT <u>HAMMOND</u>	OWNER <u>MINNESOTA ST. HWY. DEPT.</u>
	REFERENCE DWGS. <u>E9</u>	
CONTRACT <u>3142</u> DIV. <u>14</u> FABCO# <u>274</u> SHEET <u>1420</u>		



LINE NO.	SHIP NO.	NO. REQ.	SHAPE	LENGTH	PC. NO.	REMARKS	ITEM NO.	TOTAL WEIGHT	MARKED
1									
2	1502A	ONE	PLATFORM						
3									
4	1	1	10C15.3	16.82	X1		7502	59	255
5	1	1	10C15.3	7.31	X2		7502	59	111
6	1	1	10C15.3	9.47	X3		7502	59	144
7	1	1	10C15.3	3.8	X4		7502	59	56
8	1	1	10C15.3	3.74	X5		7502	59	56
9	2	2	4x4x1/2	0.7	X6		7527	59	11
10	1	1	6x3x3/8	16.82	X7		7548	59	120
11	1	1	BAR 3x3	16.82	X8		7549	59	64
12	1	1	BAR 4x4	16.82	X9		7520	59	71
13	1	1	6x3x3/8	16.35	X10		7545	59	103
14	1	1	6x3x3/8	1.28	X11		7504	59	9
15	1	1	BAR 3x3	15.58	X12	BENT	7546	59	59
16	1	1	BAR 4x4	16.11	X13	BENT	7517	59	62
17	2	2	6x3x3/8	3.92	X14		7574	59	55
18	4	4	6x3x3/8	3.92	X15		7524	59	109
19	2	2	4x4x1/2	3.92	X16		7524	59	55
20	1	1	7/8 WLD	12.4					12
21	43		RIVS 3/8						12
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ALLIED STRUCTURAL STEEL COMPANY
 1425 14TH STREET S.W. MINNEAPOLIS, MINN. 55404

MINN. PROJ. NO. I.G.35W-3(58)112
 STATE PROJ. NO. 2783-9340B (TH35W394)

DIVISION #15
 CLINTON FAB

DETAILS OF PLATFORM R/L10
 STRUCTURE BRIDGES #1940
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HIGHWAY DEPT.
 CUSTOMER: MINNESOTA STATE HIGHWAY DEPT.

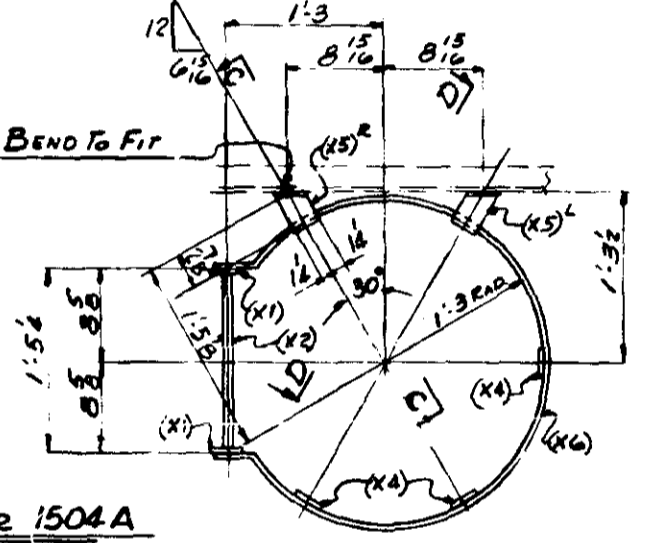
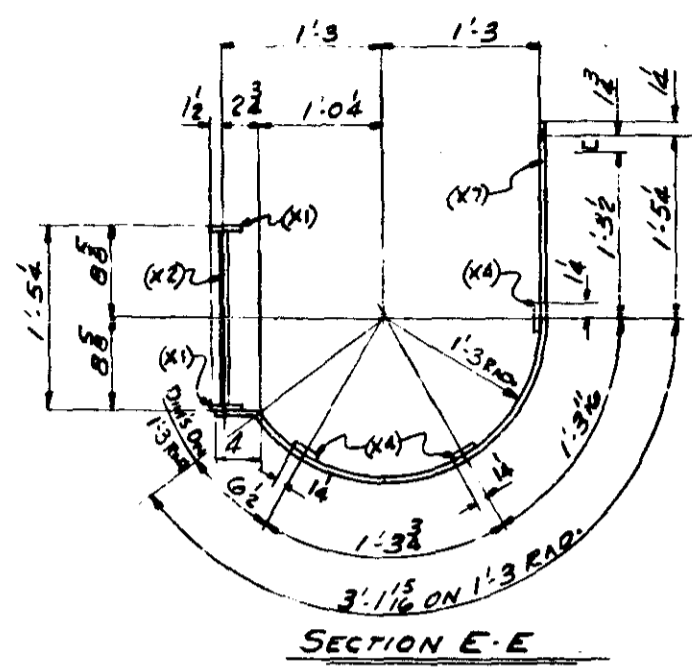
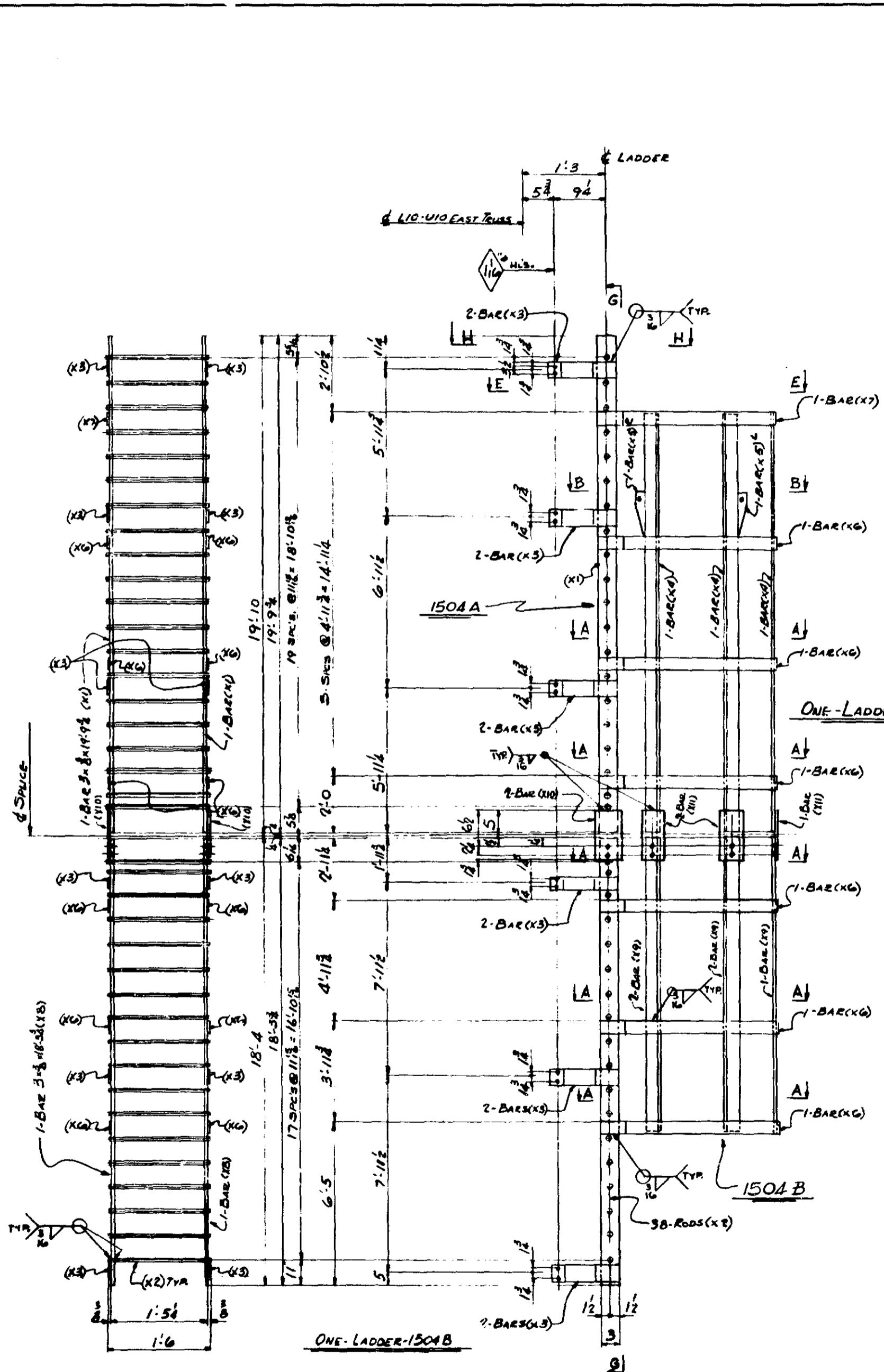
OPEN HOLES 1 1/2" RIVETS 3/8" PAINT: YES SEE SHIP G1
 DRAWN BY: L.O. DATE: 2-3-66 CHECKED BY: K.L.K. DATE: 2-18-66

REVISIONS: CONTRACT 3142 FABCOD 946 SHEET 1502

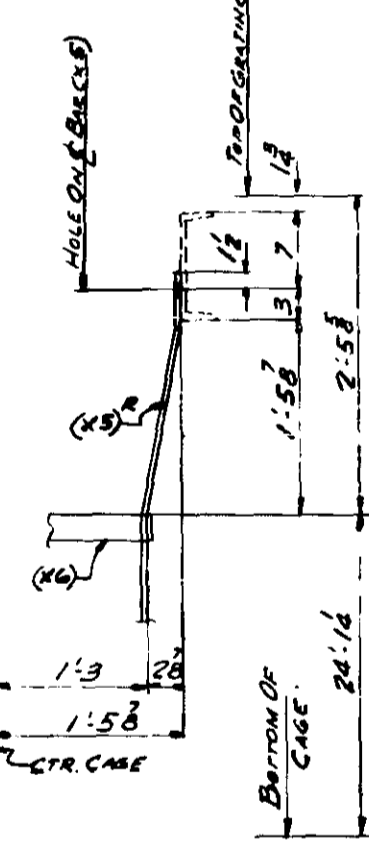
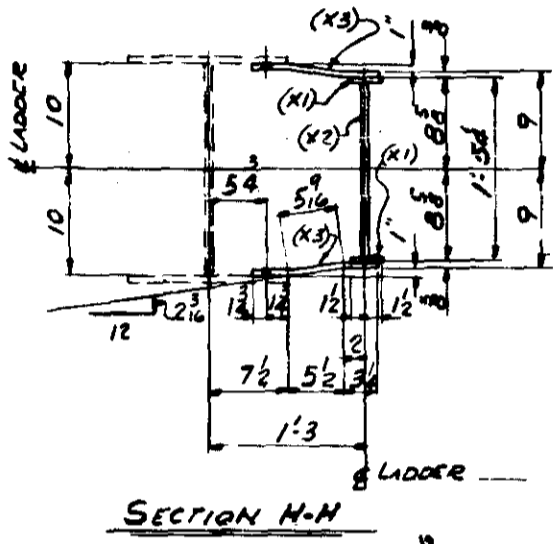
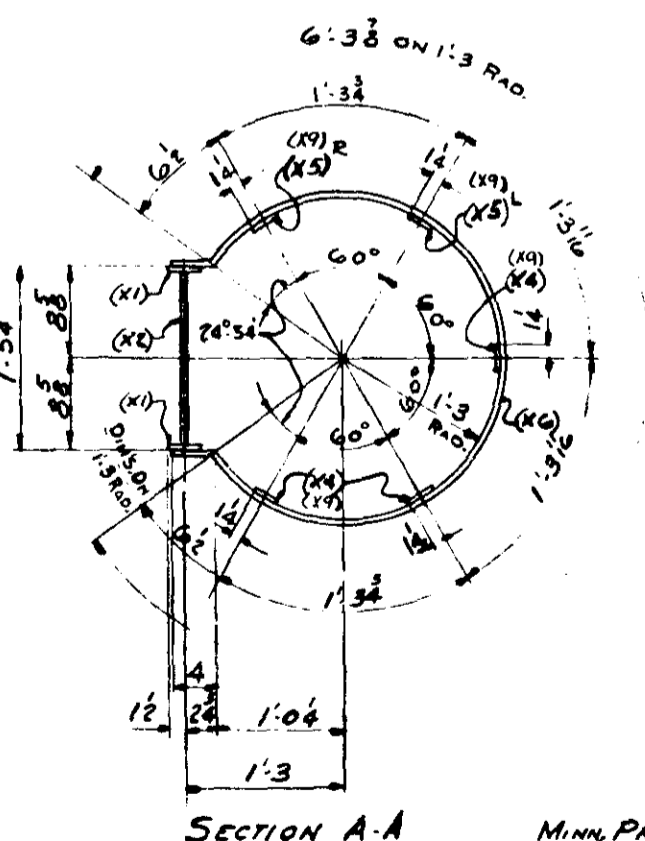
NOTE:
 FOR GEN. NOTES SEE SHIP G1
 MARK. SPECS SEE BILL OF MAIL
 GRIND ALL BUCKS, SHARP EDGES AND
 ROUGH SURFACES SMOOTH.

NOTE A:
 COPE TO FIT 10C15.3

SEE NOTE A



FOR DIM'S NOT SHOWN SEE SECT. A-A



NOTES:
 FOR GEN. NOTES SEE SH. GNI
 MAT. SPEC'S SEE BILL OF MAT.
 LADDER 1504 A TO BE HOT DIPPED
 GALVANIZED AFTER FABRICATION PER
 M.H.D. 3394

NO.	SHIP MK.	NO. REQ.	SHAPE	LENGTH	PC. MK.	REMARKS	ITEM NO.	TOTAL WEIGHT	M.H.D. SPEC'S	
1										
2			1504A ONE LADDER							
3										
4		2	BAR 3x3	19 9/8	X1		8010	59	152	3306
5		20	RODS 3/8"	1 6	X2		8011	59	45	3306
6		6	BAR 7x8	1 0 1/2	X3	BENT	8012	59	55	3306
7		3	BAR 2 1/2 x 3	16 11	X4		8013	59	162	3306
8		2	BAR 2 1/2 x 3	25 11 1/2	X5	BENT	8014	59	83	3306
9		3	BAR 2 1/2 x 3	7 0 1/2	X6	ON 1 3/8" R.	8015	59	67	3306
10		1	BAR 2 1/2 x 3	5 0 1/2	X7	ON 1 3/8" R.	8016	59	16	3306
11		1	3/4 WLD.	53 0						
12		2	BAR 3x3	0 10	X10			59	7	3306
13		5	BAR 3x3	0 10	X11			59	16	3306
14										
15			1504B ONE LADDER							
16										
17		2	BAR 3x3	18 3/4	X8		8016	59	140	3306
18		18	RODS		X2		8011	59	41	3306
19		6	BAR		X3		8012	59	55	3306
20		3	BAR		X6		8014	59	67	3306
21		5	BAR 2 1/2 x 3	12 1	X9		8015	59	193	3306
22										
23										
24		1	3/4 WLD.	44 0						NC
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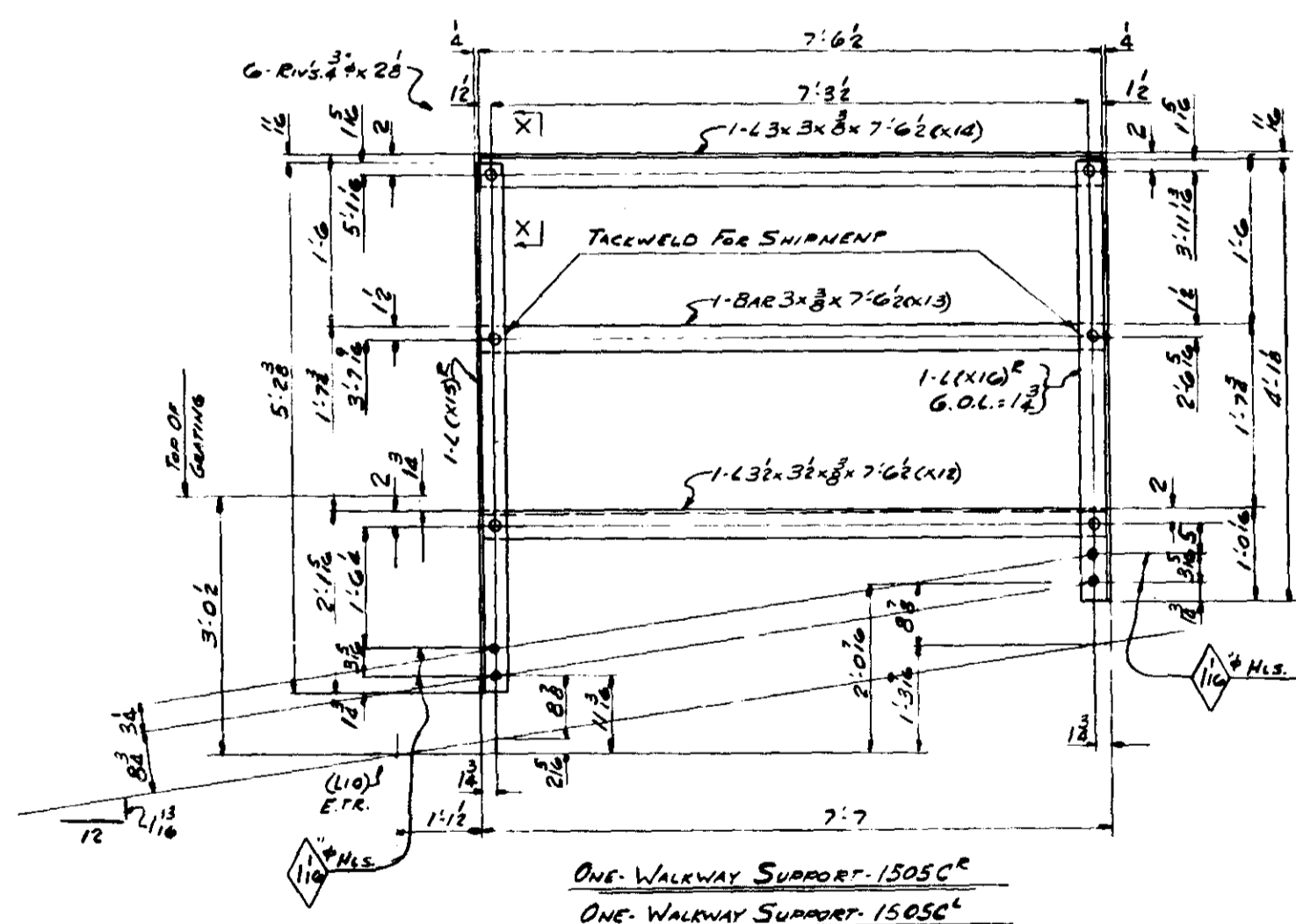
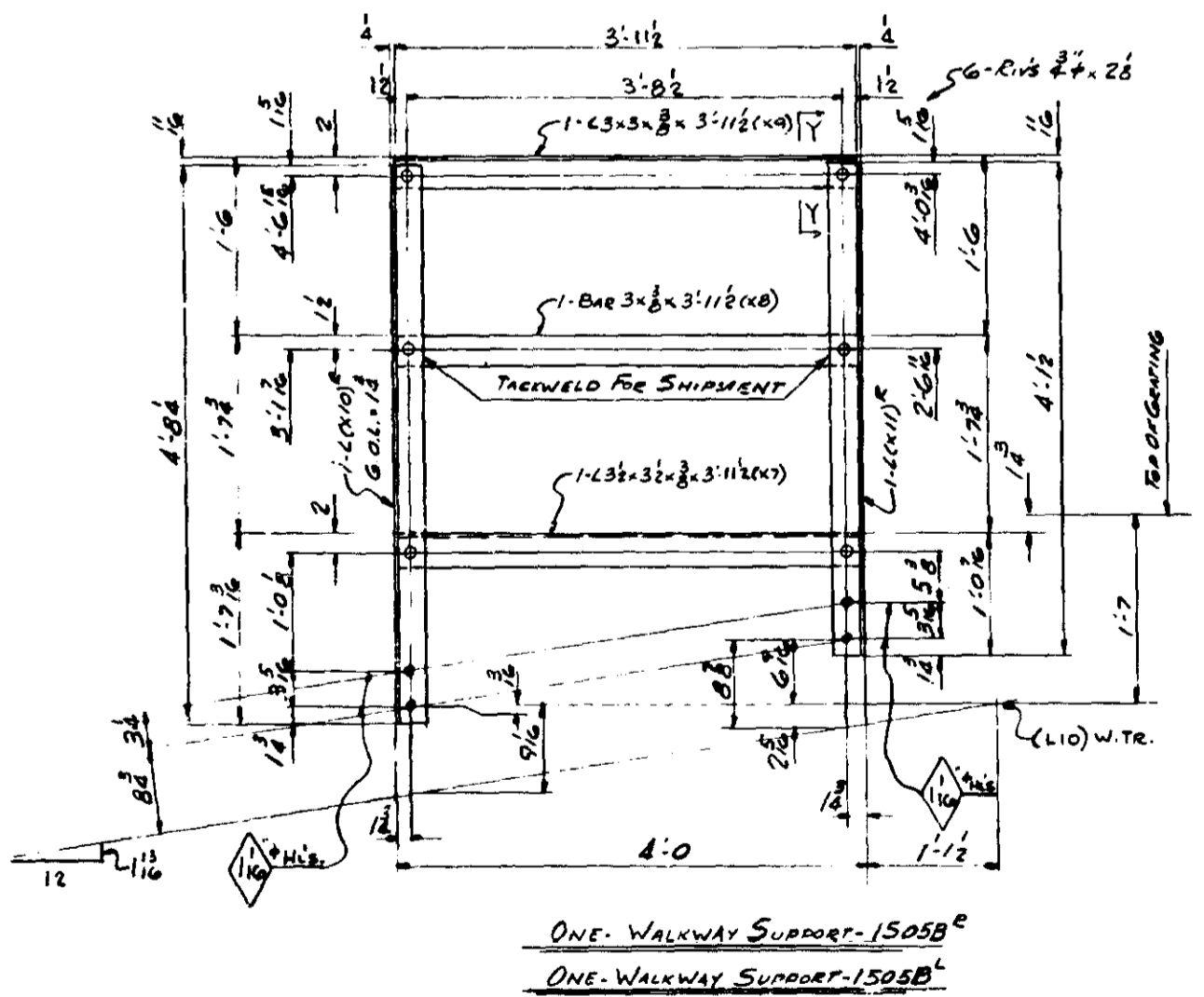
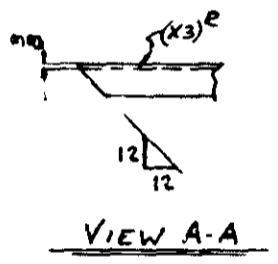
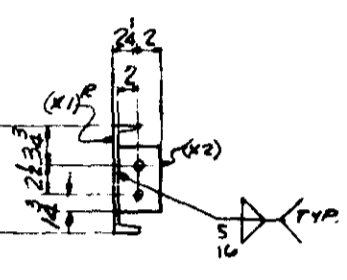
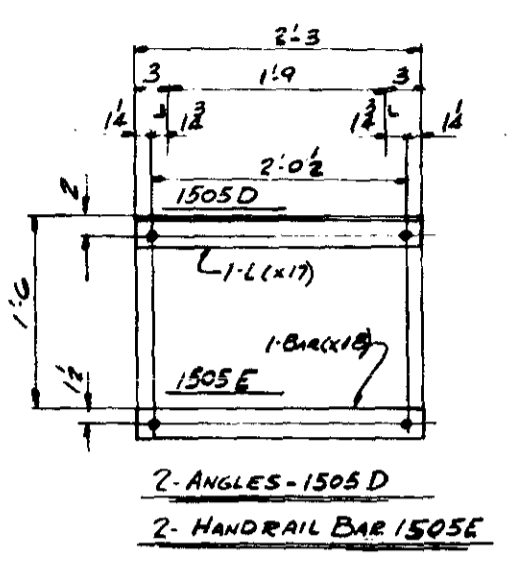
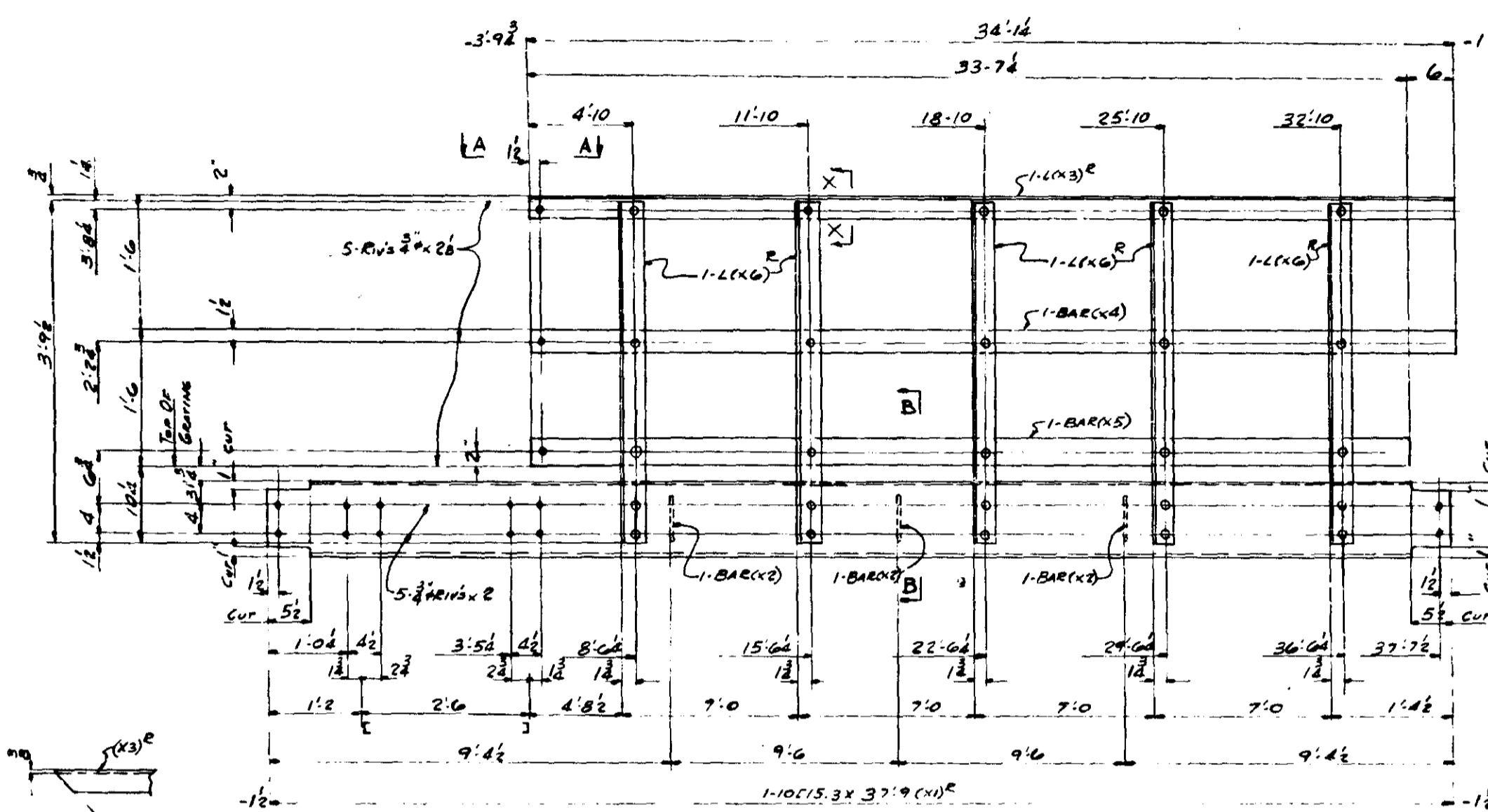
ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS Erectors
 1111 12TH STREET, MINNEAPOLIS, MINN. 55404

DETAILS OF LADDER @ LIO EAST TRUSS
 STRUCTURE BRIDGE NO. 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY DEPT.
 CUSTOMER MINNESOTA STATE HWY DEPT.

MINN. PROJ. NO. I-1635 W-3(50) 112
 STATE PROJ. NO. 2783 9340 (7N35W-394)
 DIVISION #15
 CLINTON F.A.

OPEN HOLES 1/2" UN. RIVETS & BOLTS None PAINT SEE NOTE
 DRAWN BY L.O. DATE 1-28-66 CHECKED BY K.L.K. DATE 2-18-66
 REVISIONS: [Diagrams showing changes]

CONTRACT 3142 FABCOD 945 SHEET 1504



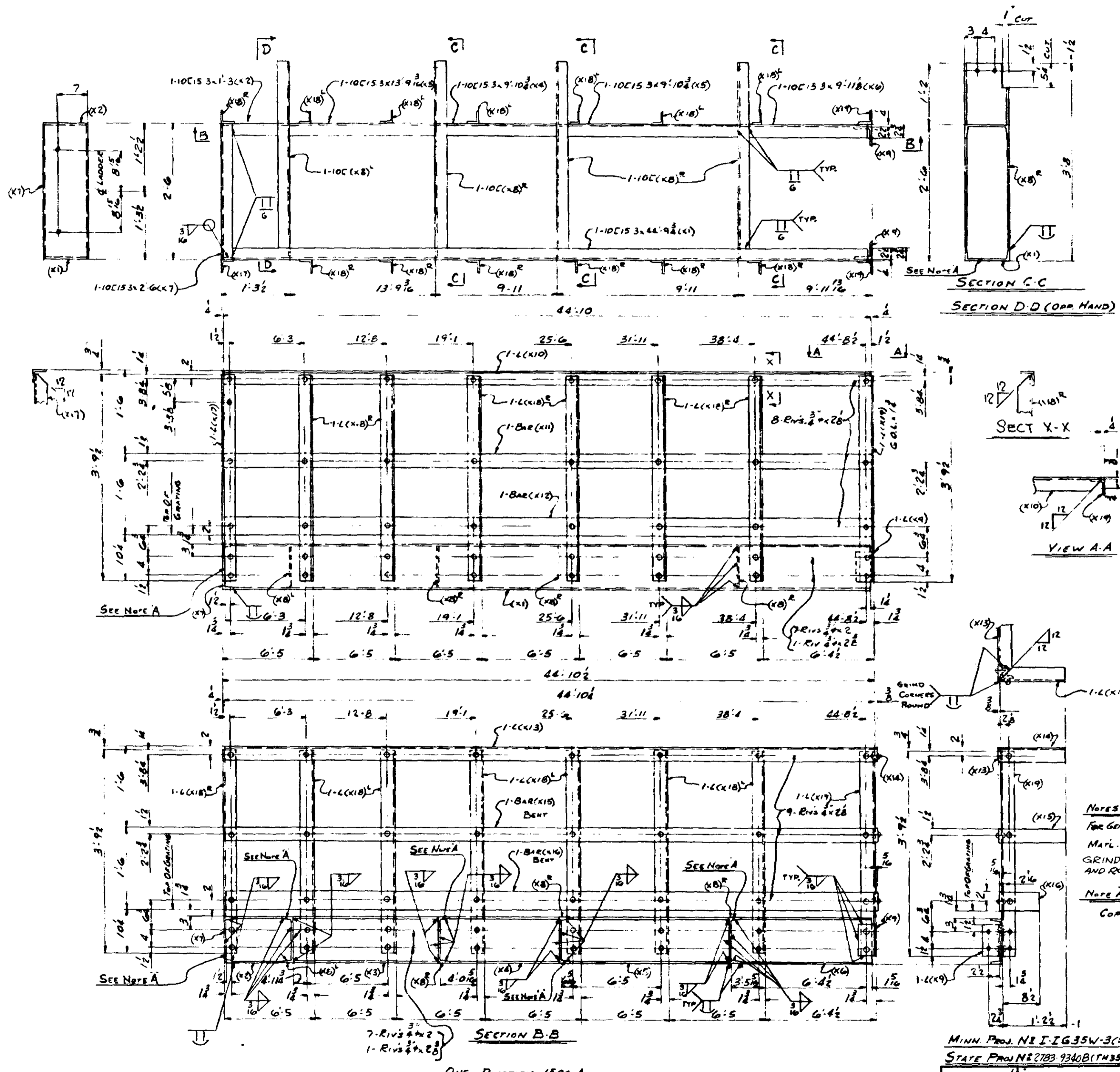
LINE	SHIP NO	NO REQ	SHAPE	LENGTH	PC NO	REMARKS	ITEM NO	BID ITEM	TOTAL WEIGHT	UNIT
1										
2	1505A	ONE	PLATFORM							
3	1505A'	ONE	PLATFORM							
4										
5		2	10C15.3	37.9	X1		7800	59	1155	3300
6		6	BAR 6x8	0.4	X2		7800	59	15	3300
7		2	L3x3x8	34.16	X3		7800	59	491	3300
8		2	BAR 3x8	34.16	X4		7810	59	261	3300
9		2	BAR 4x10	33.74	X5		7811	59	286	3300
10		10	L3x3x8	5.92	X6		7820	59	273	3300
11		2	7/8 WLD	3.0					116	
12		50	3/4 RIVS						NC	
13										
14	1505B	ONE	WALKWAY SUPPORT							
15	1505B'	ONE	WALKWAY SUPPORT							
16										
17		2	L3x3x8	3.112	X7		7611	59	67	3300
18		2	BAR 3x8	3.112	X8		7612	59	30	3300
19		2	L3x3x8	3.112	X9		7612	59	67	3300
20		2	L3x3x8	4.86	X10		7617	59	68	3300
21		2	L3x3x8	4.16	X11		7616	59	59	3300
22		12	RIVS 3/4						NC	
23										
24	1505C	ONE	WALKWAY SUPPORT							
25	1505C'	ONE	WALKWAY SUPPORT							
26										
27		2	L3x3x8	7.62	X12		7620	59	128	3300
28		2	BAR 3x8	7.62	X13		7621	59	58	3300
29		2	L3x3x8	7.62	X14		7621	59	107	3300
30		2	L3x3x8	5.28	X15		7623	59	75	3300
31		2	L3x3x8	4.16	X16		7624	59	59	3300
32		12	RIVS 3/4						NC	
33										
34	1505D	2	ANGLE							
35		2	L3x3x8	2.3	X17		7614	59	32	3300
36										
37	1505E	2	HANDRAIL BAR							
38		2	BAR 3x8	2.3	X18		7615	59	17	3300
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BID ITEM 59 = 3240

NOTES:
 FOR GEN. NOTES SEE SHIP G/1
 MARL. SPECS SEE BILL OF MATL.
 GRIND ALL BURS, SHARPEDES AND
 ROUGH SURFACES SMOOTH

MINN. PROJ. NO I-2635W-3(58)112
 STATE PROJ. NO 2783 9340B (TH35W-394)
 DIVISION #15
 CLINTON FAB.
 OPEN HOLES 13/16" U.M. RIVETS 3/8" PAINT YES SEE SHIP G/1
 DRAWN BY LD. DATE 2-3-66 CHECKED BY K L K DATE 2-12-66

ALLIED STRUCTURAL STEEL COMPANY
 1425 15TH STREET HARBOR, MINNESOTA 55412
 DETAILS OF PLATFORMS @ L10
 STRUCTURE BRIDGE NO 9340
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HWY. DEPT.
 CUSTOMER MINNESOTA STATE HWY. DEPT.
 CONTRACT 3142 FABCOD 946 SHEET 1505



ITEM NO.	SHIP MK	NO REQD	SHAPE	LENGTH	PC MK	REMARKS	ITEM NO.	BID ITEM	TOTAL WEIGHT	NO. OF SHIPMENTS
1			PLATFORM							
2	1506A	ONE	PLATFORM							
3										
4	1	1	10C15.3	44.98	X1		7505	59	63.0	3306
5	1	1	10C15.3	1.3	X2		7505	59	1.9	3306
6	1	1	10C15.3	13.98	X3		7505	59	2.1	3306
7	1	1	10C15.3	9.10	X4		7505	59	1.5	3306
8	1	1	10C15.3	9.10	X5		7505	59	1.5	3306
9	1	1	10C15.3	9.10	X6		7505	59	1.5	3306
10	1	1	10C15.3	2.6	X7		7505	59	3.8	3306
11	4	4	10C15.3	3.72	X8		7505	59	2.5	3306
12	2	2	L4x4x3/8	0.7	X9		7521	59	1.1	3306
13	1	1	L3x3x3/8	44.10	X10		7521	59	3.3	3306
14	1	1	BAR 3x3	44.10	X11		7522	59	1.2	3306
15	1	1	BAR 4x4	44.10	X12		7523	59	1.9	3306
16	1	1	L3x3x3/8	44.10	X13		7524	59	3.3	3306
17	1	1	L3x3x3/8	1.28	X14		7525	59	1.9	3306
18	1	1	BAR 3x3	46.18	X15	BENT	7526	59	1.7	3306
19	1	1	BAR 4x4	45.74	X16	BENT	7527	59	1.9	3306
20	1	1	L3x3x3/8	3.92	X17		7528	59	2.7	3306
21	13	13	L3x3x3/8	3.92	X18		7529	59	35.5	3306
22	2	2	L3x3x3/8	3.92	X19		7530	59	5.5	3306
23	1	1	7/16 W10	33.0			7531		11.6	
24	83	83	3/8 R15				7532		11.6	
25										
26										
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BID ITEM 59 = 346B

NOTES:
 FOR GEN NOTES SEE SHIP GNI
 MAT'L SPEC'S SEE BILL OF MAT'L
 GRIND ALL BURRS SHARP EDGES
 AND ROUGH SURFACES SMOOTH
 NOTE A
 COME TO FIT 10C15.3

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS FABRICATORS Erectors
 1225 SOUTH STREET, MINNEAPOLIS, MINN. 55404

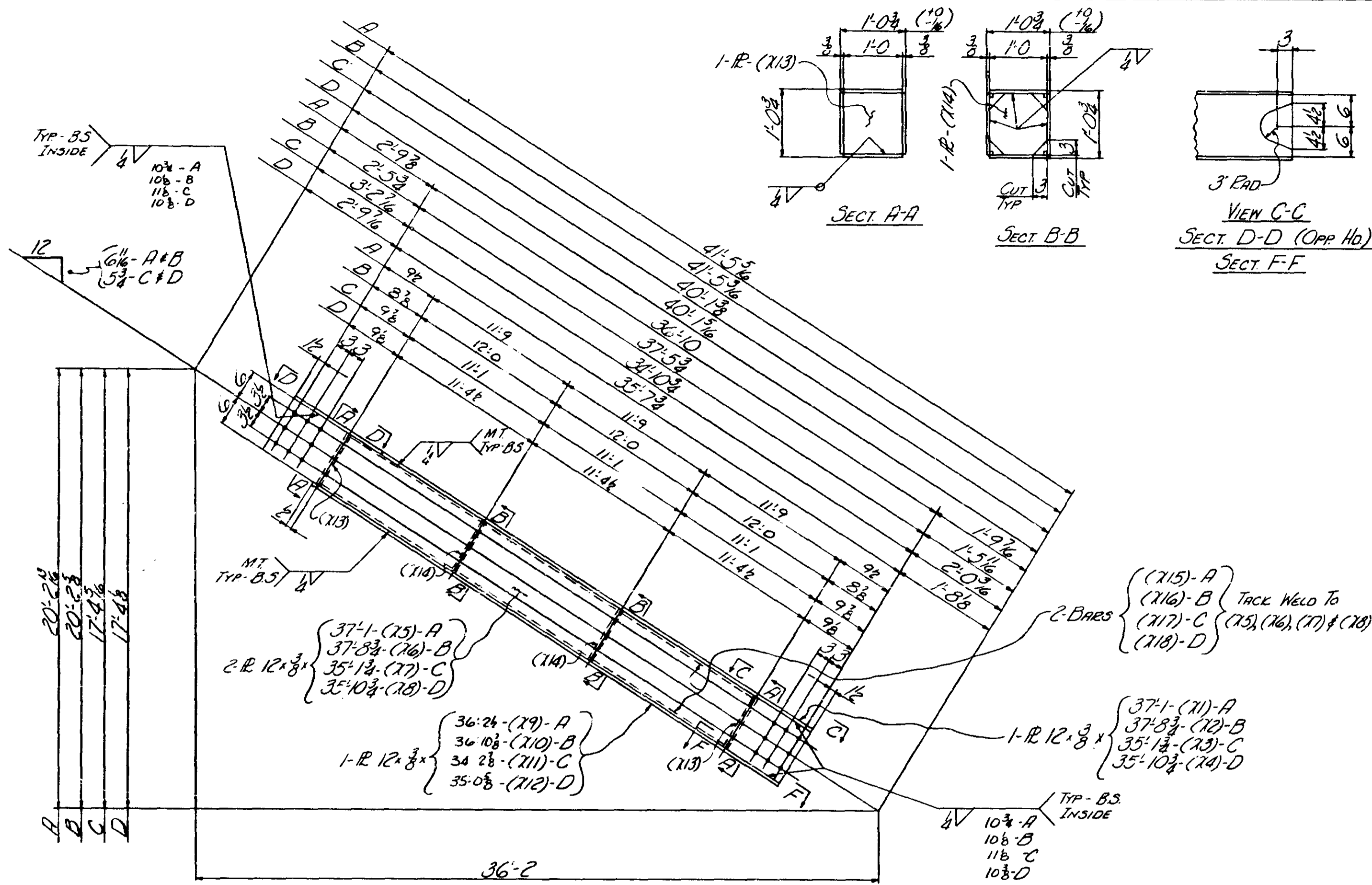
MINN. PROJ. NO. I-IG35W-3(50)112
 STATE PROJ. NO. 2783 9340B (TH35W-394)

DETAILS OF PLATFORM @ (L10)
 STRUCTURE BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINNESOTA STATE HWY. DEPT.
 CUSTOMER: MINNESOTA STATE HWY. DEPT.

DIVISION #5
 CLINTON FAB.

CONTRACT 3142 FABCOD 946 SHEET 1506

OPEN HOLES	13/16"	RIVETS	3/8"	PAINT	YES SEE SHIP GNI
DRAWN BY	L.B.	DATE	8-2-66	CHECKED BY	K.L.K.
REVISIONS	△	△	△	△	



Dr	15	17	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL
NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2	1	1508A	4	BERGING					
3	4	R 12x 3/8	37	1	71			3312	59
4	8	R 12x 3/8	37	1	75			3312	4539
5	4	R 12x 3/8	36	28	79			3312	2216
6	8	R 12x 3/8	1	0	713			3312	122
7	8	R 12x 3/8	1	0	714			3312	122
8	16	BAR 3/8 x 3/8	35	28	715			3312	59
9	4	1/2 M10	161	3					NC
11	1508B	4	BERGING						
13	4	R 12x 3/8	37	8	72			3312	59
14	8	R 12x 3/8	37	8	76			3312	4618
15	4	R 12x 3/8	36	108	710			3312	2259
16	8				713			3312	122
17	8				714			3312	122
18	16	BAR 3/8 x 3/8	35	118	716			3312	59
19	4	1/2 M10	166	0					NC
21	1508C	4	BERGING						
23	4	R 12x 3/8	35	14	73			3312	59
24	8	R 12x 3/8	35	14	77			3312	4302
25	4	R 12x 3/8	34	28	711			3312	2095
26	8				713			3312	122
27	8				714			3312	122
28	16	BAR 3/8 x 3/8	33	38	717			3312	59
29	4	1/2 M10	155	4					NC
31	1508D	4	BERGING						
33	4	R 12x 3/8	35	14	74			3312	59
34	8	R 12x 3/8	35	14	78			3312	4394
35	4	R 12x 3/8	35	08	712			3312	2145
36	8				713			3312	122
37	8				714			3312	122
38	16	BAR 3/8 x 3/8	34	18	718			3312	59
39	4	1/2 M10	158	0					NC
58	BID ITEM 59 = 37533								

- 4 - BERGING - 1508A (UPPER BEAR @ L9 & L19)
- 4 - BERGING - 1508B (LOWER BEAR @ L9 & L19)
- 4 - BERGING - 1508C (UPPER BEAR @ L10 & L18)
- 4 - BERGING - 1508D (LOWER BEAR @ L10 & L18)

SHOP NOTE
 FOR GEN. NOTES SEE SH. GNI
 FOR MAT. SPECS SEE BILL OF MAT.
 FOR INSPECTION OF WELDS - SEE
 SH. #GNI
 MINN PROJ No. I-1635W-3(58)112
 STATE PROJ No. 2783-93A0B(TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS & FABRICATORS
 1015 10TH STREET, MINNEAPOLIS, MINN. 55404

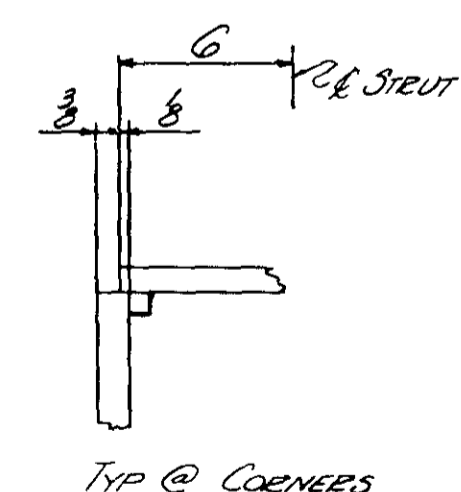
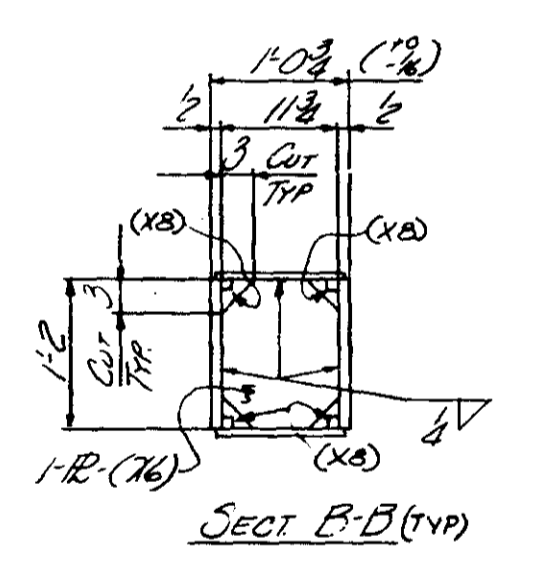
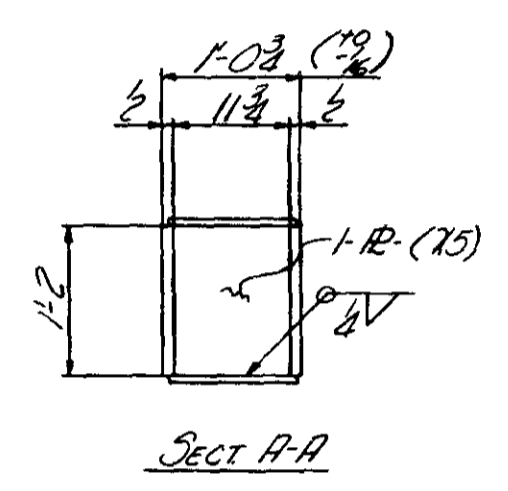
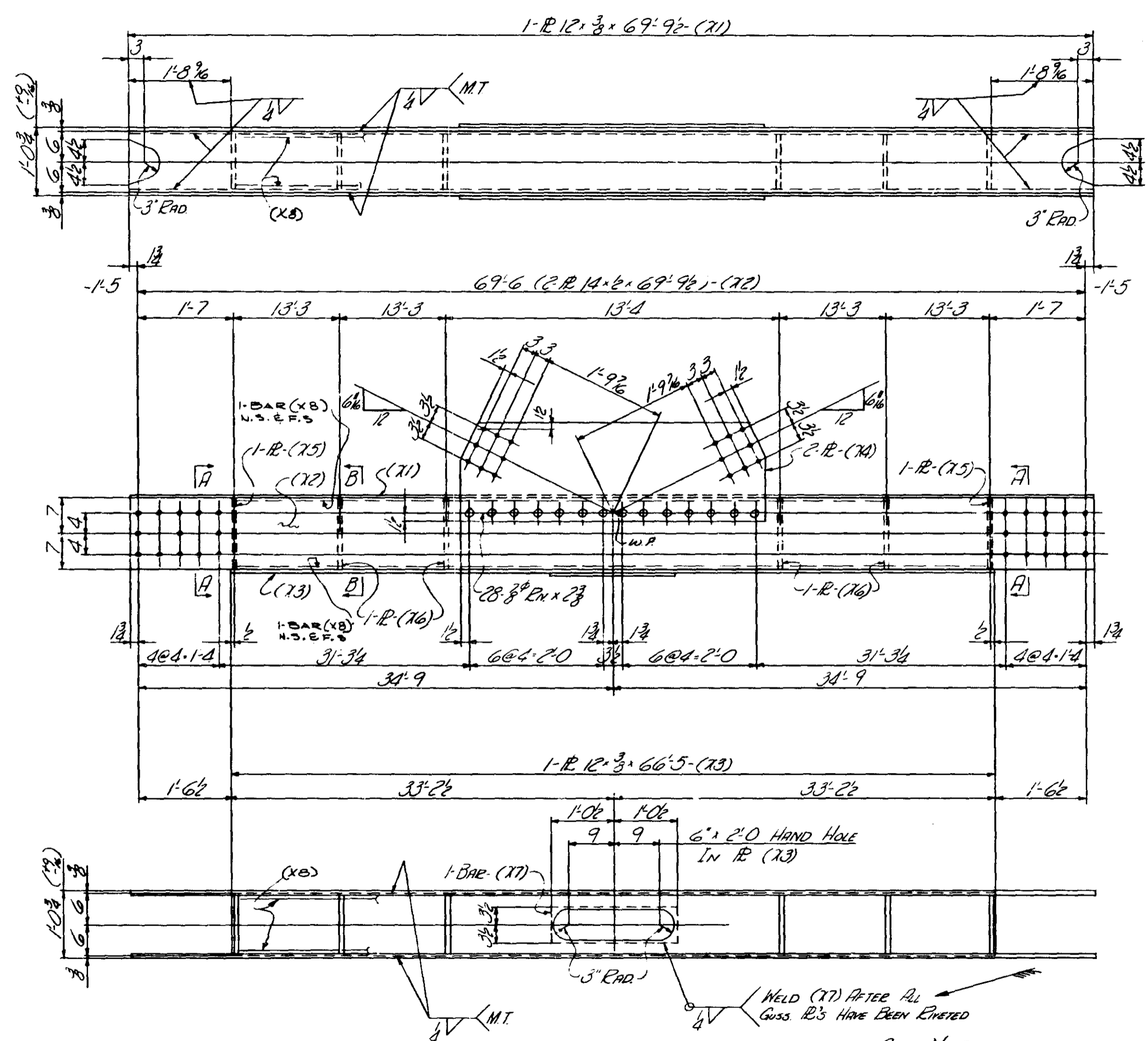
DETAILS OF SWAY BEARING
 STRUCTURE BRIDGE No. 9380
 LOCATION MINNEAPOLIS, MINN.
 OWNER MINN STATE HWY DEPT
 CUSTOMER MINN STATE HWY DEPT

DATE 3/1/66 CHECKED BY [Signature] DATE 3/2/66

CONTRACT 3142 FABCOD 264 SHEET 1508

REF DWGS E12 & E13	REVISIONS	△	△	△	△
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QTY	DRY	NO	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	NO.	TOTAL	
1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
2					STEUT							
3												
4	2	R	12x3	69'9 1/2	71				3407	59	2130	3306
5	4	R	12x4	69'9 1/2	72				3408		6644	
6	2	R	12x3	66'5'7 1/2					3409		2032	
7	4	R	12x3	4'62'7 1/2					3410		452	
8	4	R	11 1/2 x 3	1'2'7 1/2					3411		70	
9	8	R	11 1/2 x 3	1'2'7 1/2					3411		140	
10	2	BAR	7x3	2'1'3 1/2					3410	59	37	3306
11												
12												
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18	8	BAR	3/8 x 3/8	66'5 1/2	X8					59	255	2306
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2- STEUTS-1509A-(L9 & L19)

SHOP NOTE
 FOR GEN NOTES SEE SHIT GNI
 FOR MAT' SPECS SEE BILL OF MAT'
 FOR INSPECTION OF WELDS
 SEE SH. GNI

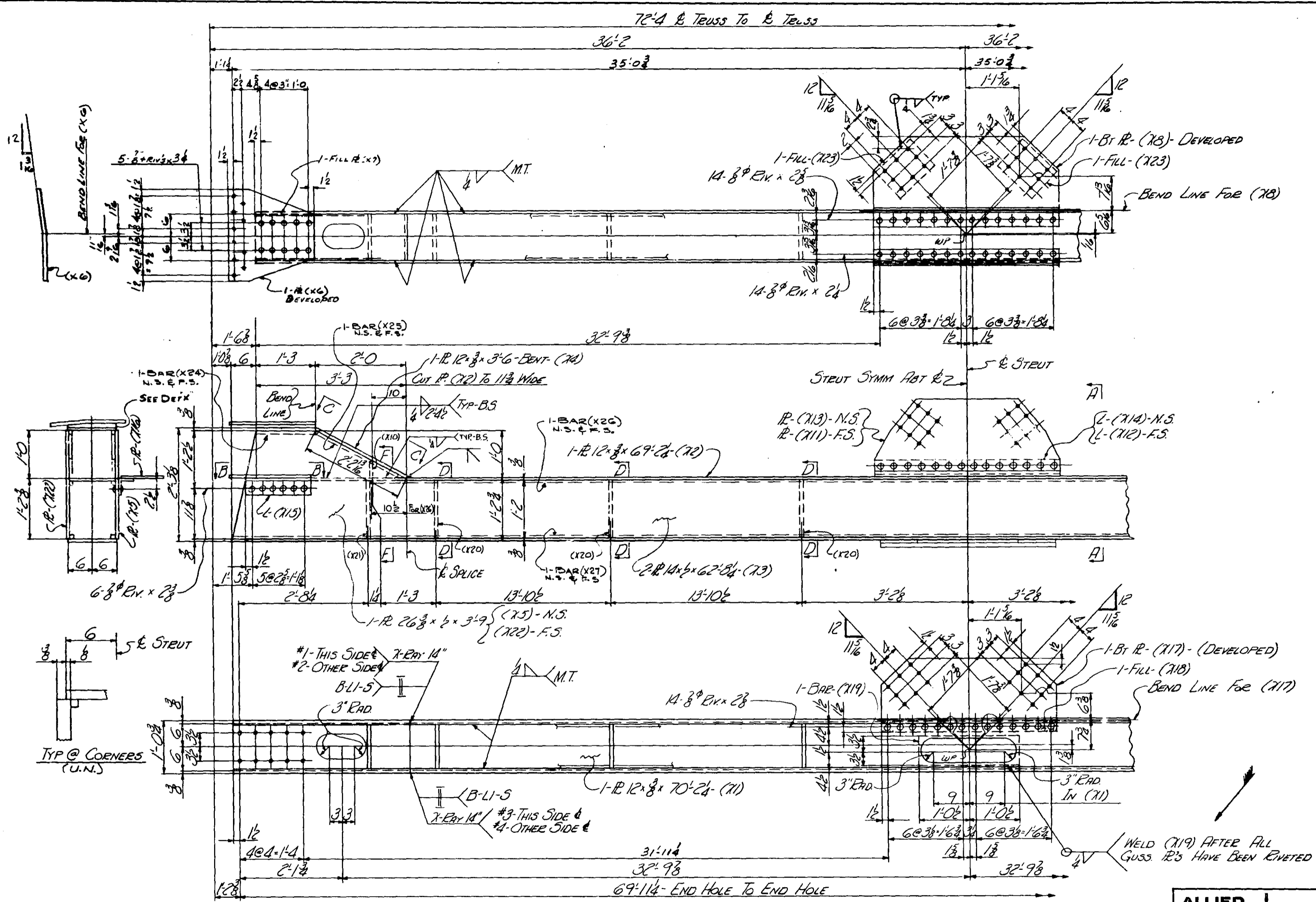
MINN. PROJ. NO. I-1635W-3(58)112
 STATE PROJ. NO. 2185-9340B(7H35W-394)

REF DWGS	DATE	BY	CHECKED	DATE
E12 & E13	3/2/66	RTM	FT	3/2/66

ALLIED ENGINEERS FABRICATORS ERECTORS
 STRUCTURAL STEEL COMPANY
 1000 10TH STREET, MINNEAPOLIS, MINN.

DETAILS OF INTERMEDIATE STEUT @ L9 & L19
 STRUCTURE: BRIDGE NO. 9340
 LOCATION: MINNEAPOLIS, MINN.
 OWNER: MINN. STATE HWY DEPT
 CUSTOMER: MINN. STATE HWY DEPT

CONTRACT 3142 FABCOD 264 SHEET 1509



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

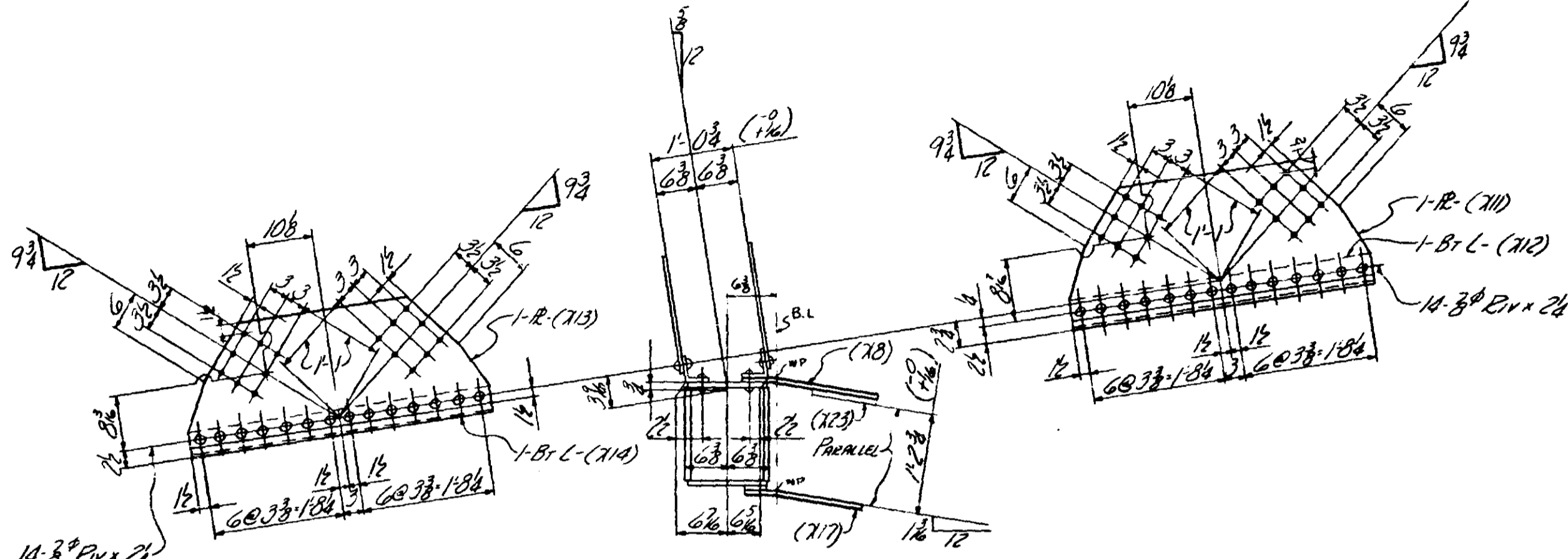
MINN. PROJ. N° I-1935W-3 (58)112
 STATE PROJ. N° 2783-9340B (7H35W-394)

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

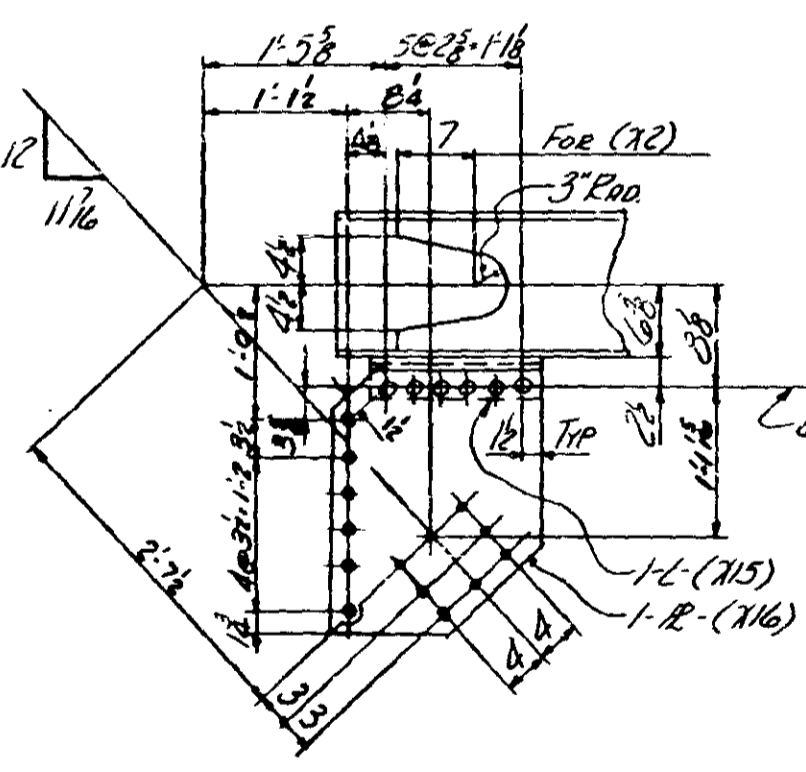
DRAWN BY R.R.M. DATE 3/1/66
 CHECKED BY F.P. DATE 4/2/66
 IN CHARGE OF J. NEWELL
 FAB. PLANT HAMMOND
 REFERENCE DWGS ERLEIS

ALLIED ENGINEERS FABRICATORS ERECTORS		STRUCTURAL STEEL COMPANY 1225 - 12TH STREET, HARBOR, MINN. 55412	
DETAILS OF <u>BOTTOM STEUT @ L11 & 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>

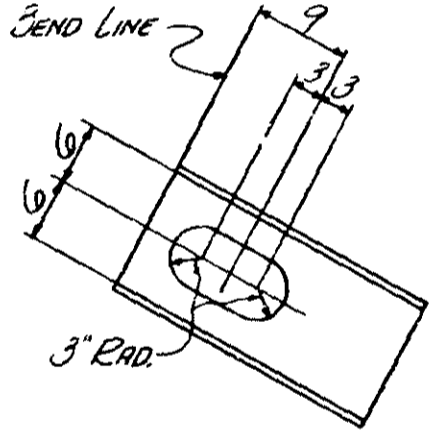
WELD (X19) AFTER ALL GUSS PL'S HAVE BEEN RIVETED



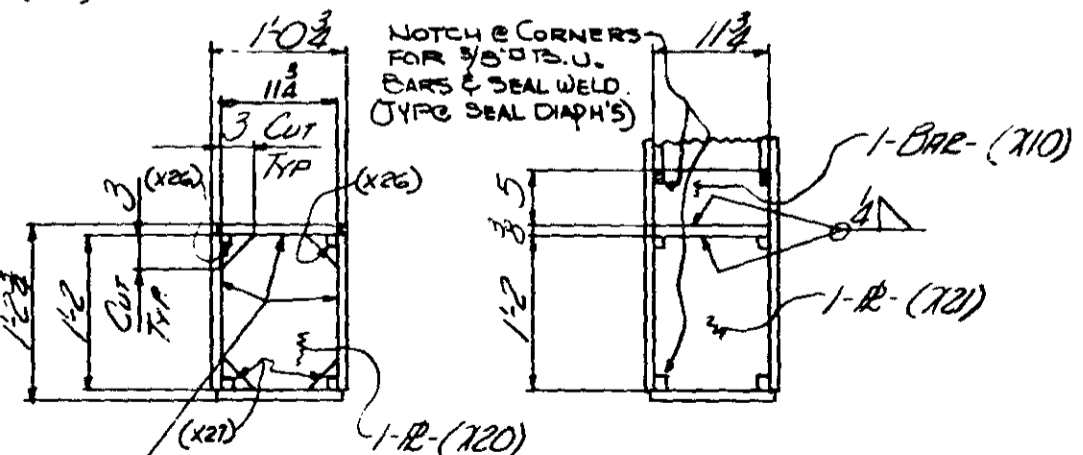
SECT A-A



SECT B-B

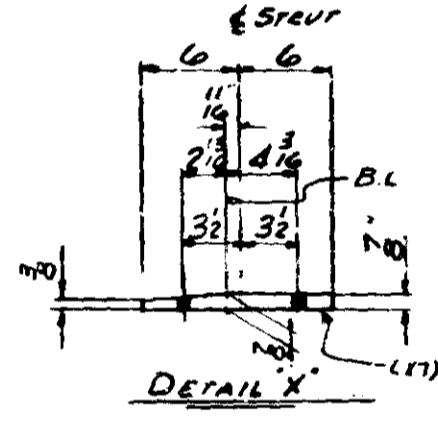


VIEW C-C



SECT D-D

SECT F-F



DETAIL X

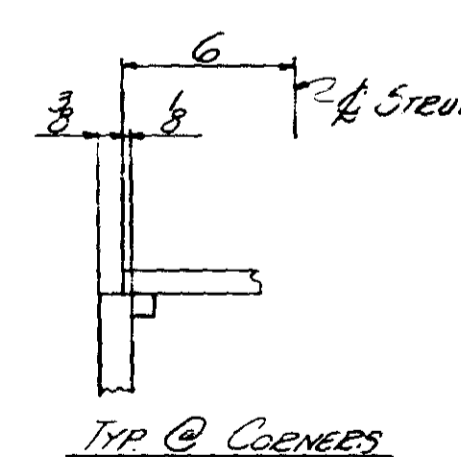
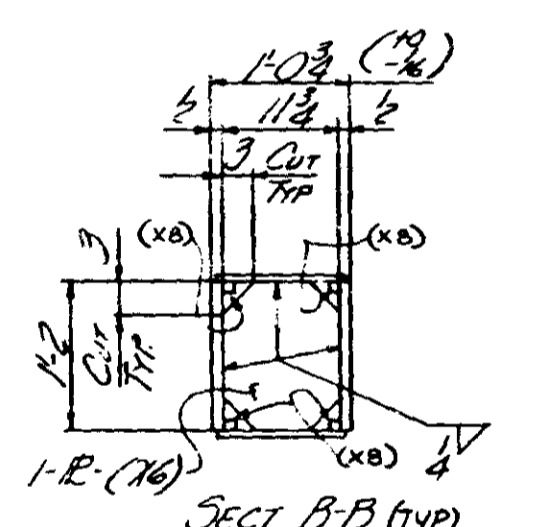
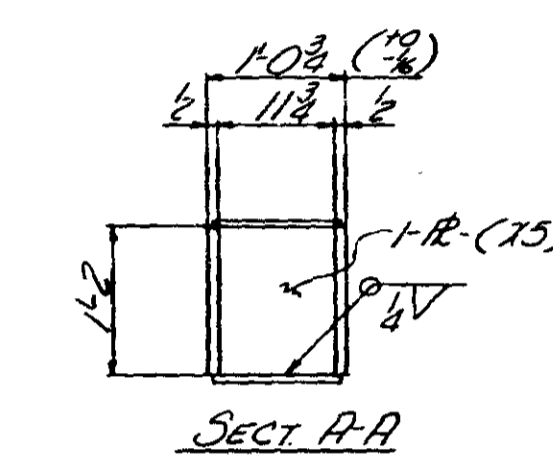
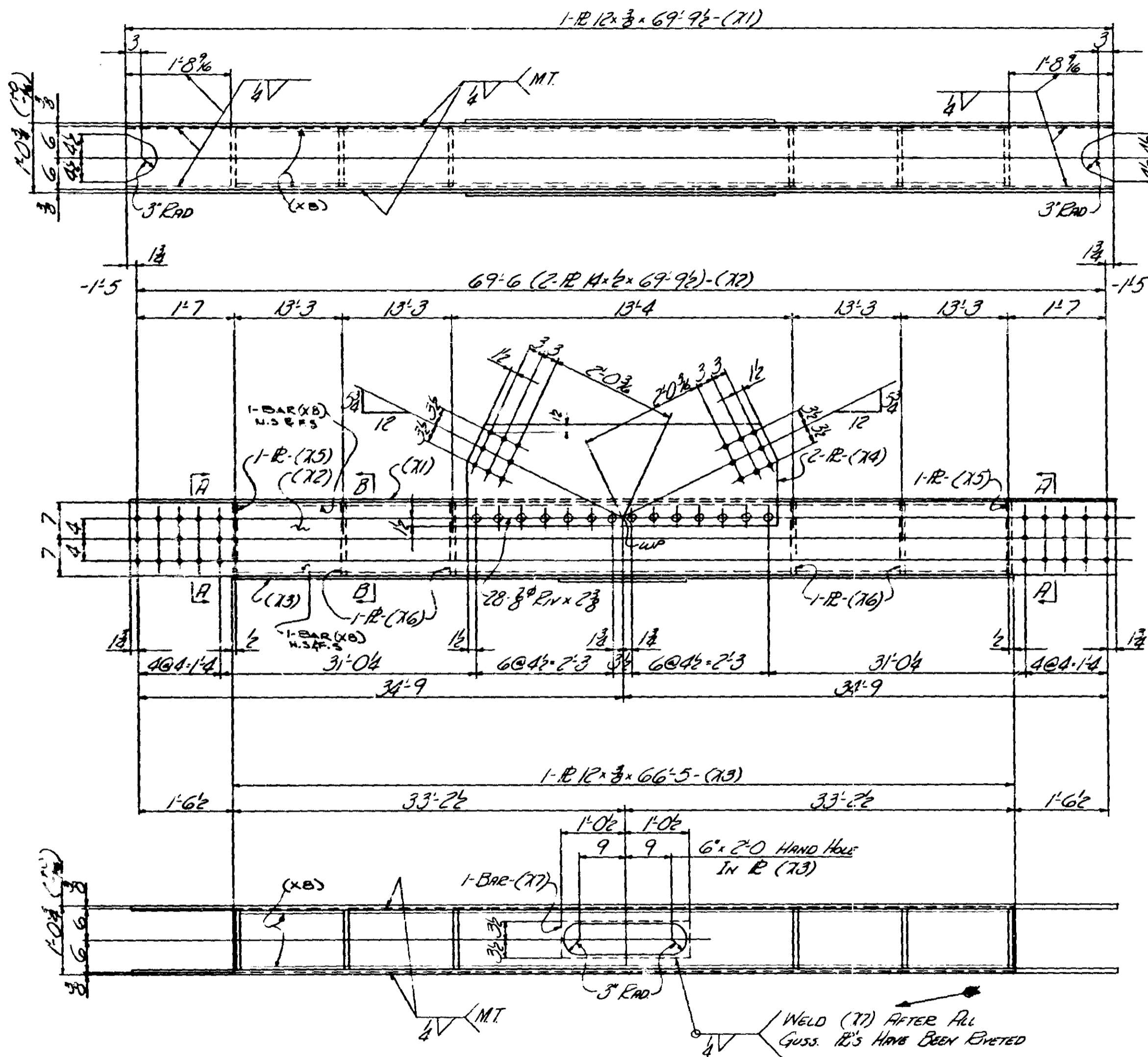
SHOP NOTE

FOR GEN. NOTES SEE SHIP GNI
 FOR MATL SPECS SEE BILL OF MATL
 FOR INSPECTION OF WELDS - SEE
 SH. N^o GNI
 MINN. FEEL No I-1635W-3(58) 112
 STATE FEEL No 2783-9340B (TH35W-394)

Div	Div	Qty	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL	W.C.	
15	17		WE	REP			WT		NO	WEIGHT	AMOUNT	
1	1	1	15100R	1	STEUT	36	7040					
2	1	1	15100B	1	STEUT							
3												
4												
5		2	R 12 x 3/8			70.24	21		3416	59	2148	3306
6		2	R 12 x 3/8			69.24	22		3417	59	2117	3306
7		4	R 12 x 2			62.84	23		3418	59	5968	3306
8		4	R 12 x 3/8			3.6	24	BENT	3419	59	219	3306
9		4	R 20 x 3/8			3.9	25		3420	59	673	3306
10		4	R 2 1/2 x 3/8			1.108	26	BENT	3503		205	
11		4	R 12 x 3/8			1.3	27	BEVELED	3504		179	
12		2	R 22 x 3/8			3.102	28	BENT	3423		217	
13		2	BAR 5 x 3/8			0.113	29		3424		25	
14		2	R 18 x 3/8			3.102	30		3421		178	
15		2	L 6 x 4 x 3/8			3.102	31	BENT	3422		74	
16		2	R 17 1/2 x 3/8			3.102	32		3421		175	
17		2	L 4 x 4 x 3/8			3.102	33	BENT	3422		76	
18		4	L 4 x 4 x 3/8			1.48	34		3502		53	
19		4	R 20 x 1/2			2.08	35		3504		210	
20		2	R 10 1/2 x 3/8			3.78	36	BENT	3423		172	
21		2	BAR 3 x 3/8			3.78	37		3424		97	
22		2	BAR 2 x 3/8			2.1	38		3425		37	
23		12	R 1 1/2 x 3/8			1.2	39		3426		210	
24		4	R 1 1/2 x 3/8			1.2	40		3427		70	
25		4	R 20 x 3/8			3.9	41		3418	59	673	3306
26		4	R 9 x 3/8			1.0	42		3503	59	77	3306
27		228	R 3/8 x 3/8								NC	
28		2	WLD			341.9					NC	
29												
30												
31												
32												
33		4	BAR 3/8 x 7/8			1.3	43			59	2	3306
34		4	BAR 3/8 x 7/8			2.2	44				4	
35		4	BAR 3/8 x 7/8			4.5	45				124	
36		4	BAR 3/8 x 7/8			7.0	46				135	
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									BID ITEM	59 =	14065	

ALLIED FABRICATORS & ERECTORS
 STRUCTURAL STEEL COMPANY
 1425 16TH STREET, HARBOR, MINN.
 DETAILS OF BOTTOM STEUT @ L11 # L17
 STRUCTURE BRIDGE No. 3300
 LOCATION MINNEAPOLIS, MINN.
 OWNER MINN. STATE HWY. DEPT.
 CUSTOMER MINN. STATE HWY. DEPT.
 CONTRACT 3142 FABCOD 264 SHEET 15100

HAMMOND FAB
 OPEN HOLES 1/2" RIVETS 3/8" PAINT YES SEE SHIP GNI
 DRAWN BY R.F.M. DATE 3/16/60 CHECKED BY J.F. DATE 4/6/60
 REVISIONS 11-21-60



Dr	Rev	QTY	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL		
15	17		NO	NO			NO		NO	WEIGHT		
1	1	1	1511A	2	STEUT							
2												
3												
4		2			R 12 x 3	69.92	71		3407	59	2136	3306
5		4			R 12 x 2	69.92	72		3406		6688	
6		2			R 12 x 3	66.5	73		3408		2032	
7		4			R 19 1/2 x 3	5.02	74		3409		995	
8		4			R 11 1/2 x 3	1.2	75		3411		70	
9		8			R 11 1/2 x 3	1.2	76		3411		140	
10		2			BAR 7 x 3	2.1	77		3412	59	37	3306
11												
12												
13					56	3/8 RIVETS					NC	
14					2	4 WLD	301	4			NC	
15												
16												
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18												
19					3	BAR 3/4 x 3/4 x 6 3/4 x 8				59	255	3306
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2-STEUTS-1511A- (L10 & L18)

SHOP NOTE
 FOR GEN. NOTES SEE SH. G.M.I.
 FOR MAT'L SPECS SEE BILL OF MAT'L
 FOR INSPECTION OF WELDS,
 SEE SH. G.M.I.

MINN. PROJ. No. 1-1635W-3 (35) 112
 STATE PROJ. No. 2783-9340B (1435W-394)

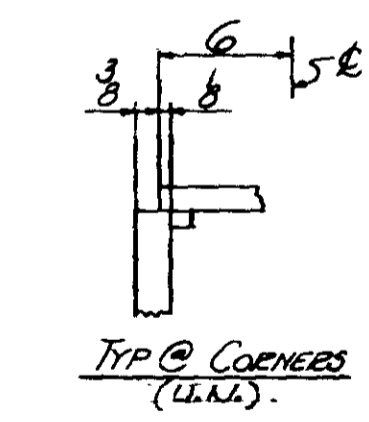
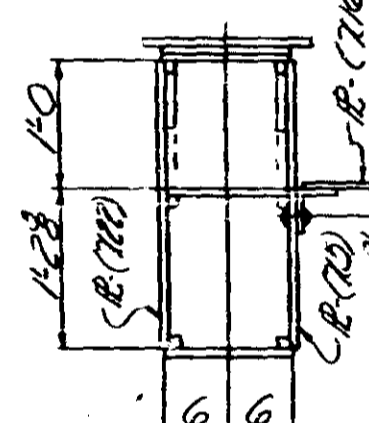
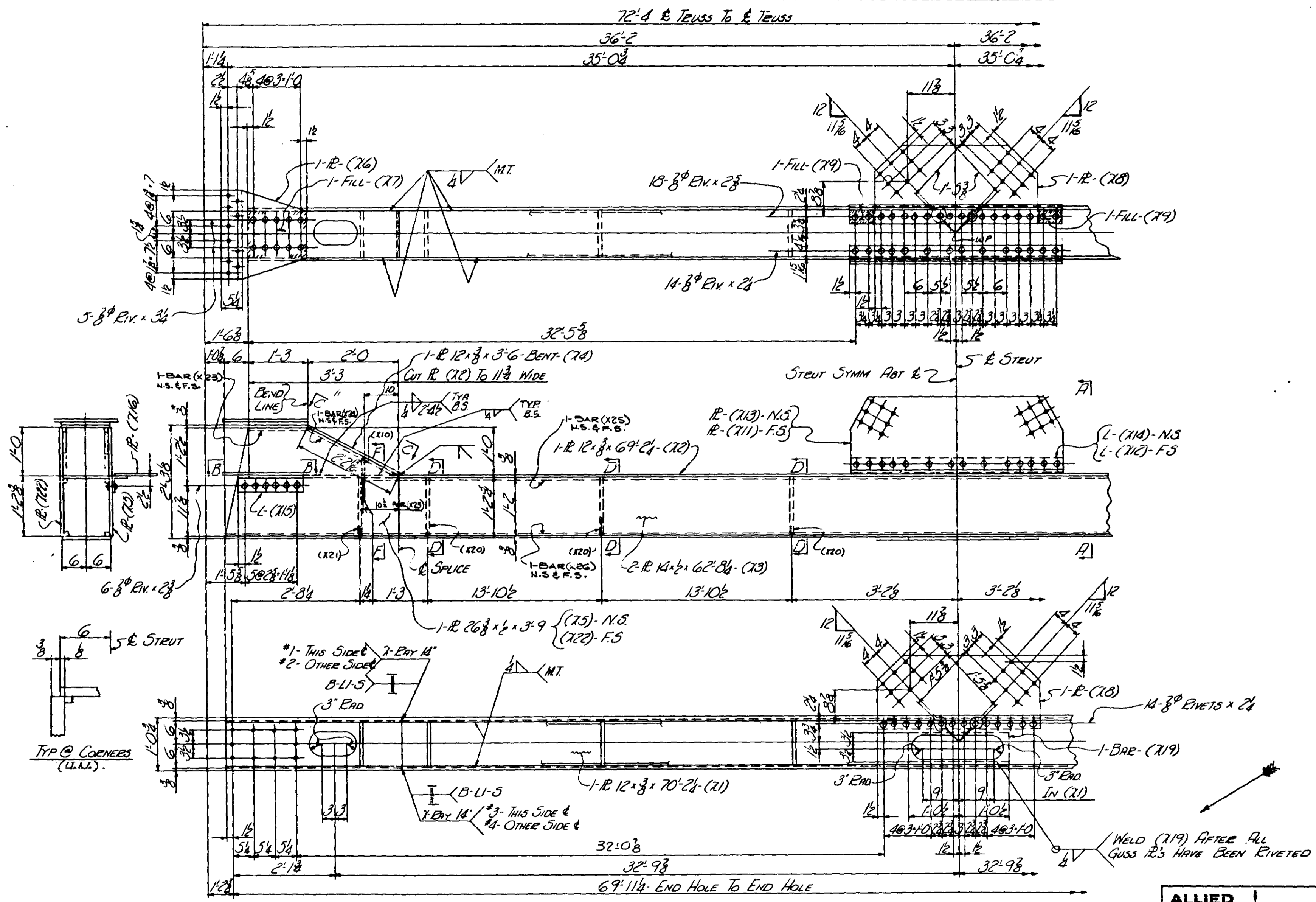
ALLIED STRUCTURAL STEEL COMPANY
 1410 1/2 ST. S. MINN. APOLIS, MINN.
 TEL. 338-1111

DETAILS OF INTERMEDIATE STEUT @ L10 & L18
 STRUCTURE: BRIDGE No. 9340
 LOCATION: MINNAPOLIS, MINN.
 OWNER: MINN. STATE HWY. DEPT.
 CUSTOMER: MINN. STATE HWY. DEPT.

CONTRACT 3142 FABCO 264 SHEET 1511

HAMMOND FAB
 OPEN HOLES 3/8 RIVETS 3/8 PAINT Yes, SEE SH. G.M.I.
 DRAWN BY: R.L.M. DATE: 3/16/66 CHECKED BY: FE DATE: 3/29/66

REVISIONS:
 1. Yes/66
 2.
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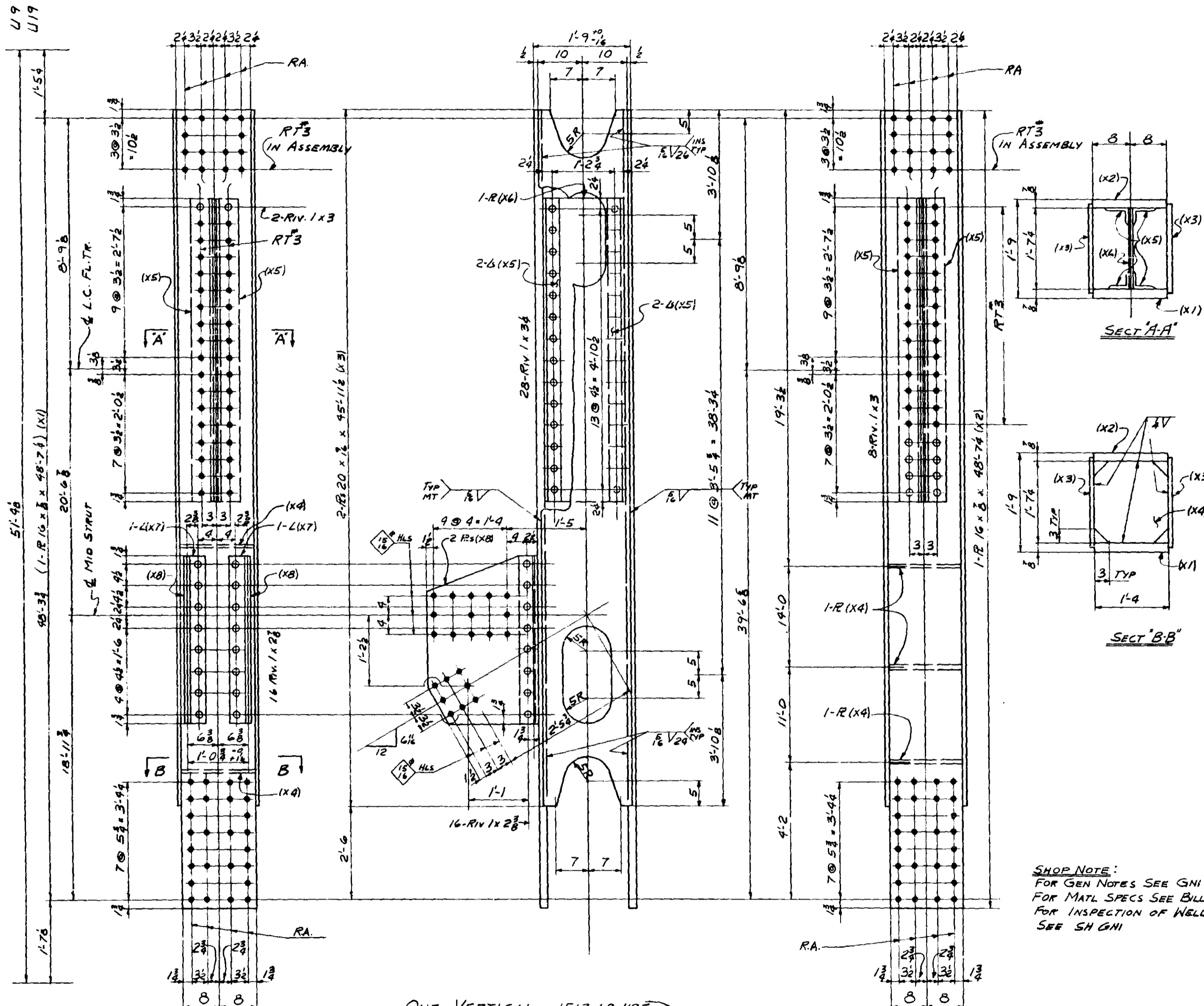
ONE-STEUT-1512A } ALIKE EXCEPT
 ONE-STEUT-1512B } FOR MARKS

MINN. PROJ. NO. I 1635W-3 (58) 112
 STATE PROJ. NO. 2783-93408 (7435W-394)

REVISIONS	DATE	BY
1	11-21-66	

DRAWN BY R.S.M. DATE 9/3/66
 CHECKED BY J.F. DATE 3/9/66
 IN CHARGE OF J. NEWELL
 FAB PLANT HARMOND
 REFERENCE DWGS. E12 & E13

ALLIED ENGINEERS FABRICATORS ERECTORS 1242 - 1250 STREET, HARBOR, INDIANAPOLIS, INDIANA	STRUCTURAL STEEL COMPANY	
	DETAILS OF BOTTOM STEUT @ L10 & L18 STRUCTURE BRIDGE No. 9340	
LOCATION MINNEAPOLIS, MINN. OWNER MINN. STATE HWY DEPT.	CONTRACT 3142	DIV. 15 FABCOD 264 SHEET 1512AB



ONE - VERTICAL - 1513 L9-U9E
 ONE - do - 1513 L9-U9W
 ONE - do - 1513 L19-U19E
 ONE - do - 1513 L19-U19W

ALIKE EXCEPT FOR MARKS

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

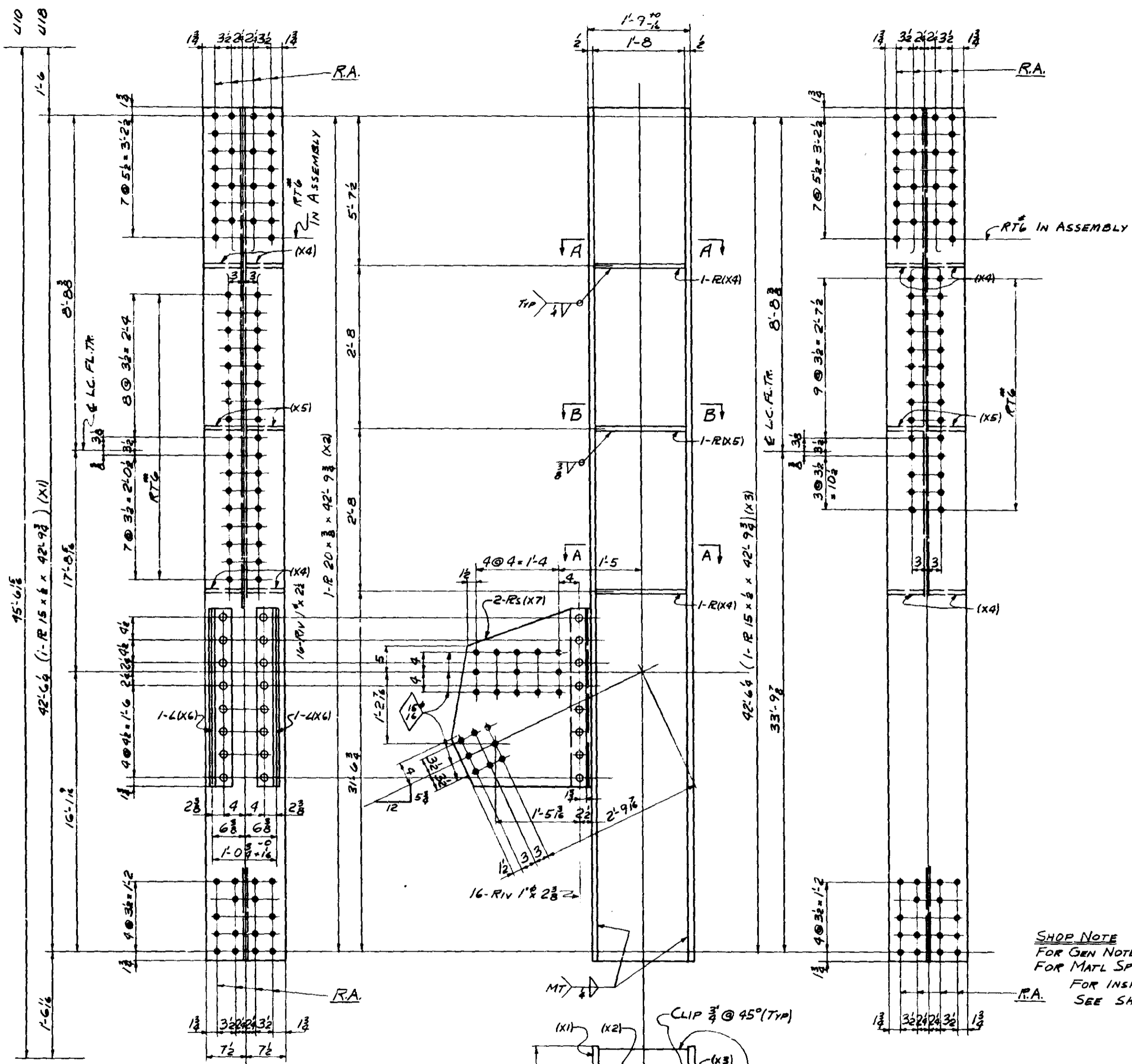
Div	Item	Ship	No	Shape	Length	Pc	Remarks	Item	Total	Weight
1517	1									
	2									
	3									
1	4	ONE		VERTICAL	1513 L9-U9E		(2) - 97'-0"			
1	5	ONE		do	1513 L9-U9W					
1	6	ONE		do	1513 L19-U19E					
1	7	ONE		do	1513 L19-U19W					
	8									
9										
10	4	R	16 x 8		48' 7 1/2" X1			3002	60	9254
11	4	R	16 x 8		48' 7 1/2" X2			3002	60	9254
12	8	R	20 x 7 1/2		46' 11 1/2" X3			3003	61	19263
13	12	R	16 x 8		1' 7 1/2" X4			3004	59	393
14	16	L	5 x 3 1/2 x 2		5' 3" X5			3005	1	1192
15	4	R	19 1/2 x 6		5' 3" X6			3006	1	687
16	8	L	4 x 4 x 3/8		2' 11" X7			3007	1	229
17	8	R	23 1/2 x 6		2' 11" X8			3008	59	692
18										
19										
20										
21	4	W	10		11' 8"					NC
22	4	W	10		200' 6"					
23										3076
24										TYPICAL
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ALLIED STRUCTURAL STEEL COMPANY
 FABRICATORS & ERECTORS
 1425 15TH STREET, HAMBURG, INDIANA 46343

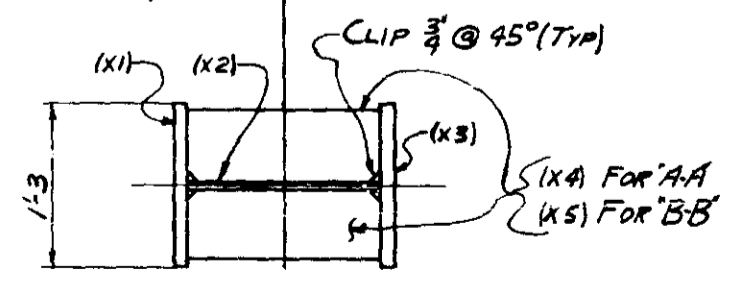
DETAILS OF
 STRUCTURE: TRUSS VERTICAL
 BRIDGE No 9340
 LOCATION: MINNEAPOLIS, MINNESOTA
 OWNER: MINN STATE HWY DEPT
 CUSTOMER: MINN STATE HWY DEPT

HAMMOND FAB
 MINN PROJ No IIG 35W-3(5B)112
 STATE PROJ No 2783-93908 (TW 35W-399)
 OPEN HOLES 1/2 UN RIVETS & BOLTS PAINT YES SEE SH GNI
 DRAWN BY MP DATE 3-9-66 CHECKED BY DATE 3/18/66

REVISIONS: [] [] [] []
 CONTRACT 3142 FABCOD 219 SHEET 1513



- 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
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.							

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BID ITEM 59 1602

BID ITEM 61 13101

MICROFILMED

ALLIED STRUCTURAL STEEL COMPANY
1200 WEST 10TH STREET, MINNEAPOLIS, MINN. 55408

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

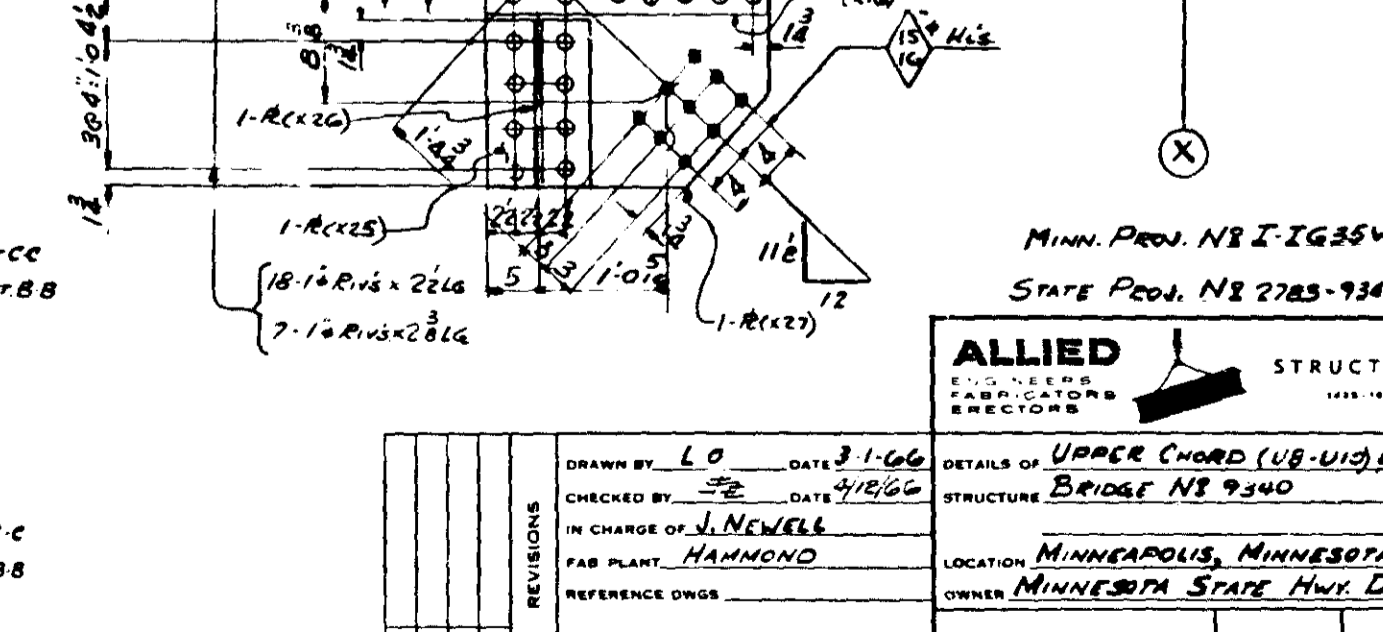
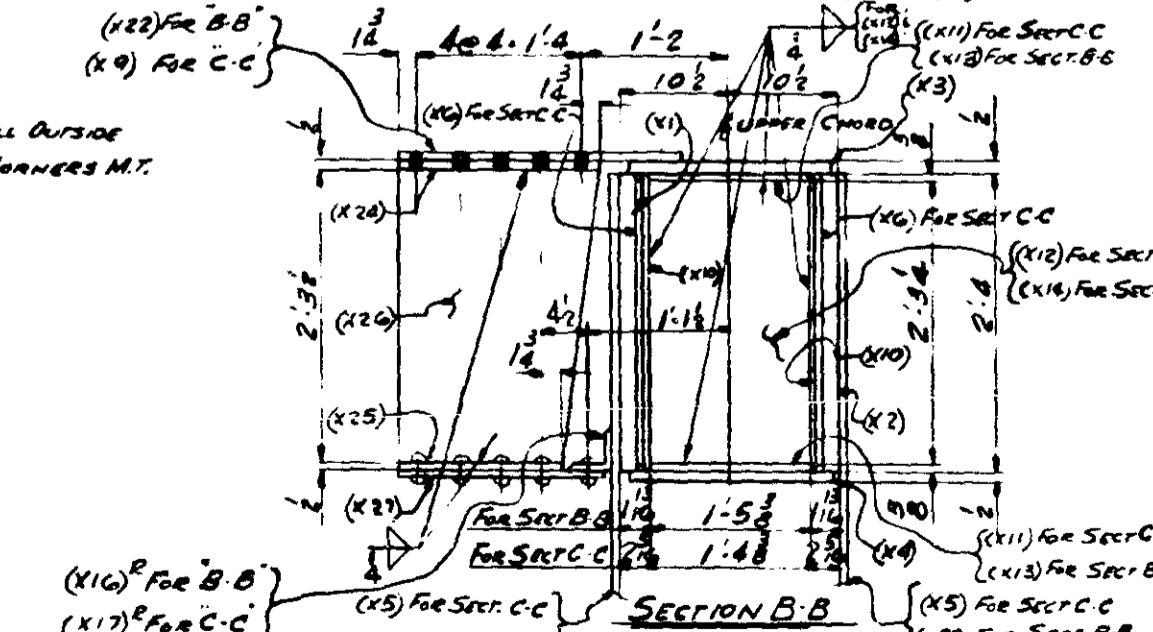
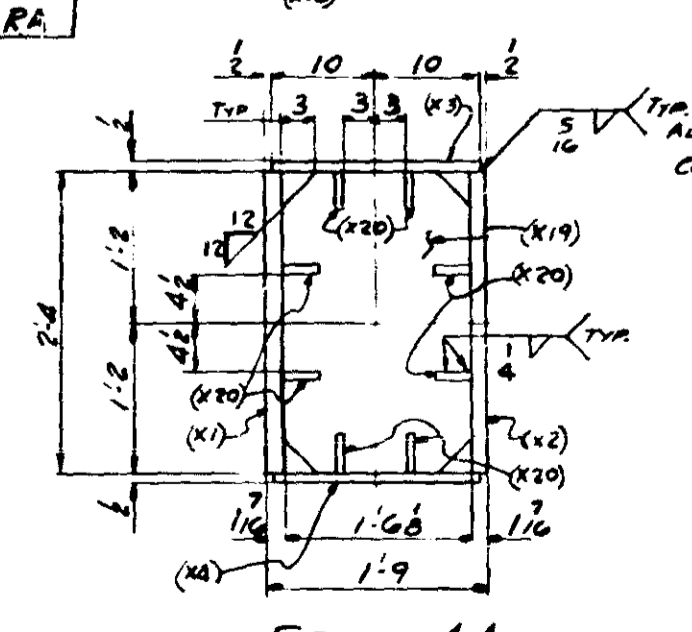
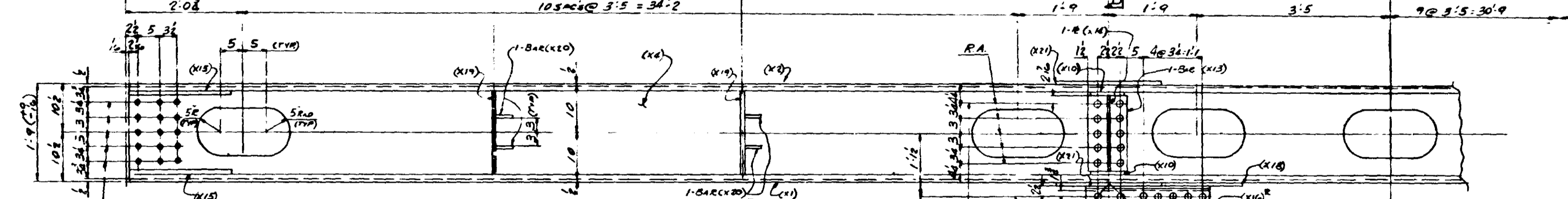
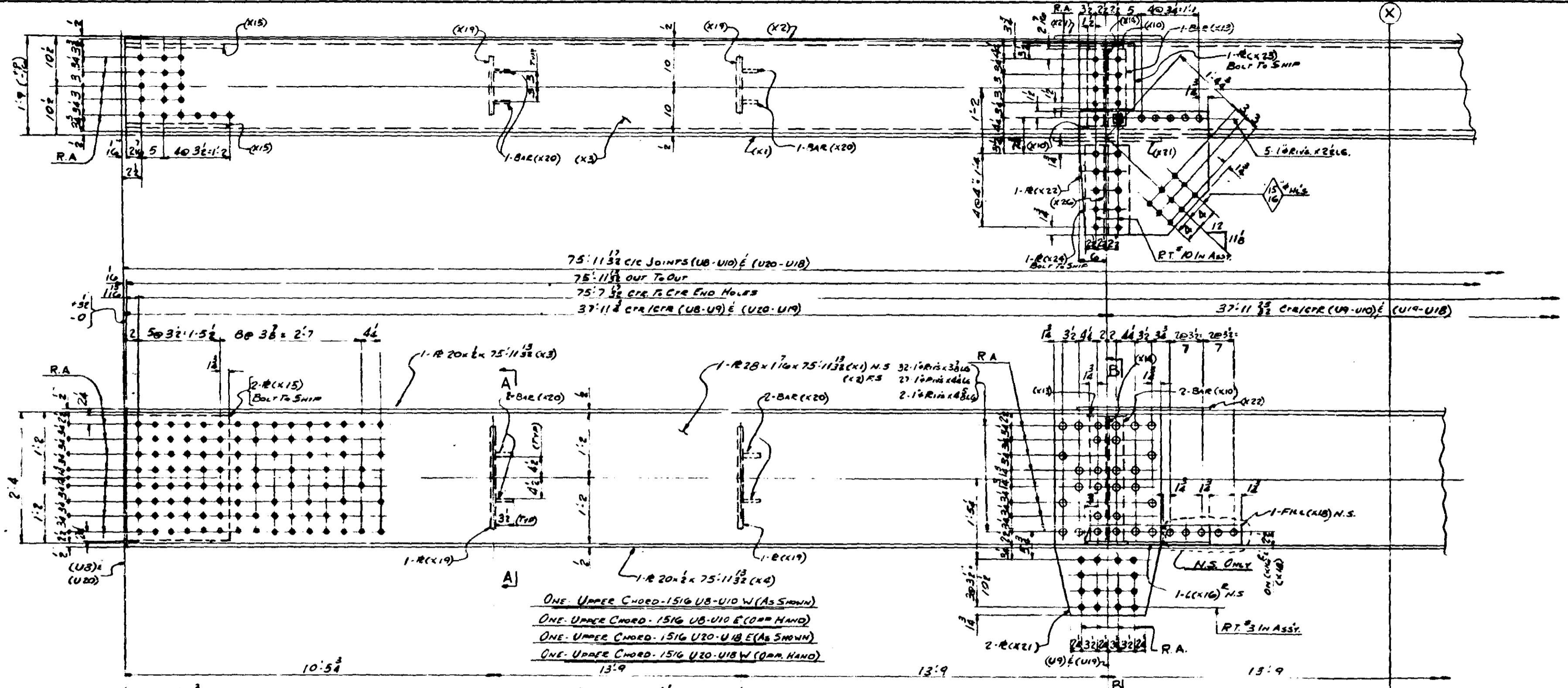
CONTRACT 3142 FABCOD 235 SHEET 1514

HAMMOND FAB MINN PROJ No I-IG 35W-3150/112
STATE PROJ No 2785-9340B(TN 35W-398)

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

DRAWN BY MP DATE 3-26-66 CHECKED BY FR DATE 3/22/66

REVISIONS △ △ △ △



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

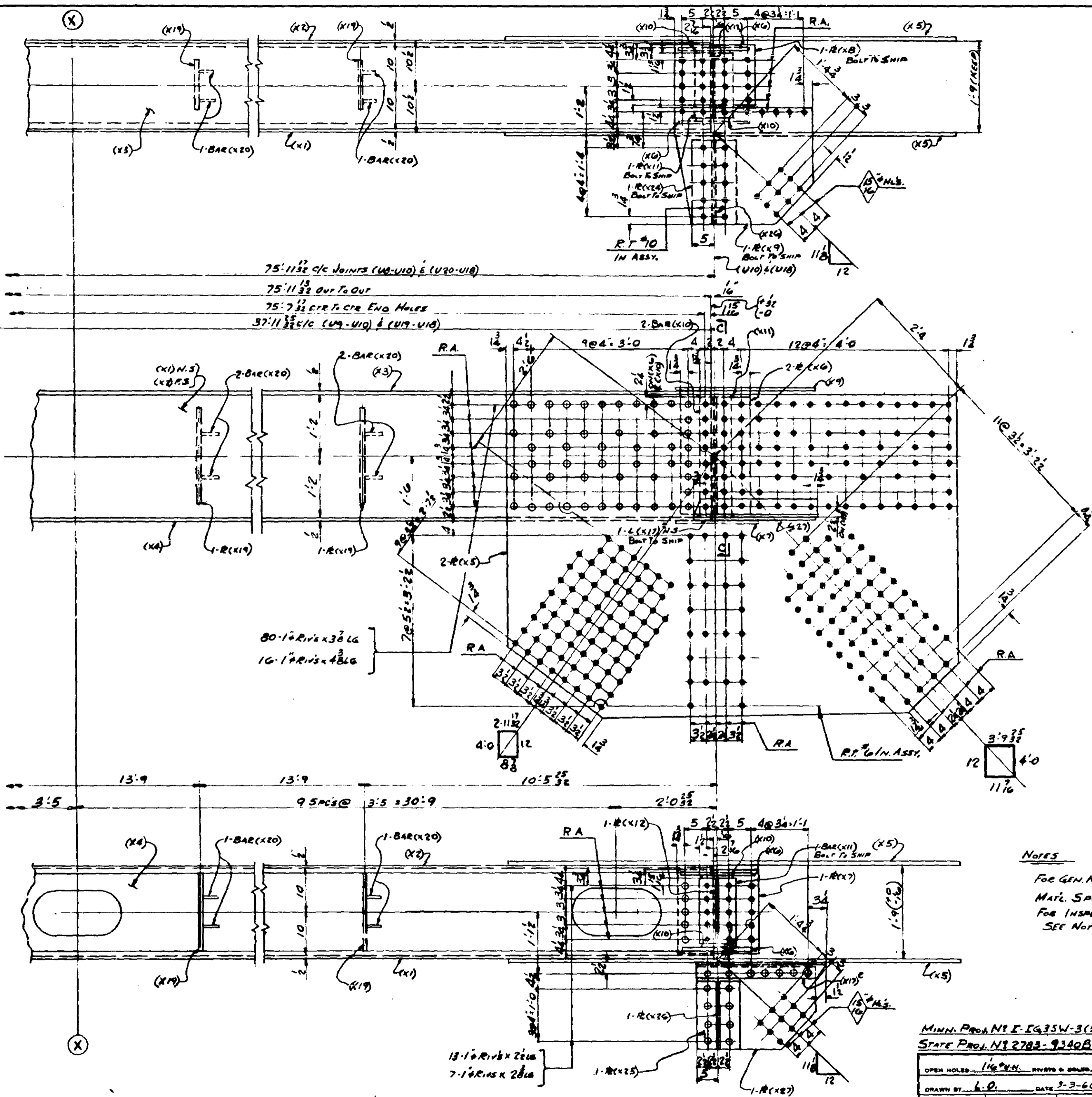
ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS

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	CHKD BY

DRAWN BY L.O. DATE 3-1-66
 CHECKED BY J.E. DATE 4/18/66
 IN CHARGE OF J. NEWELL
 FAB PLANT HAMMOND
 REFERENCE DWGS

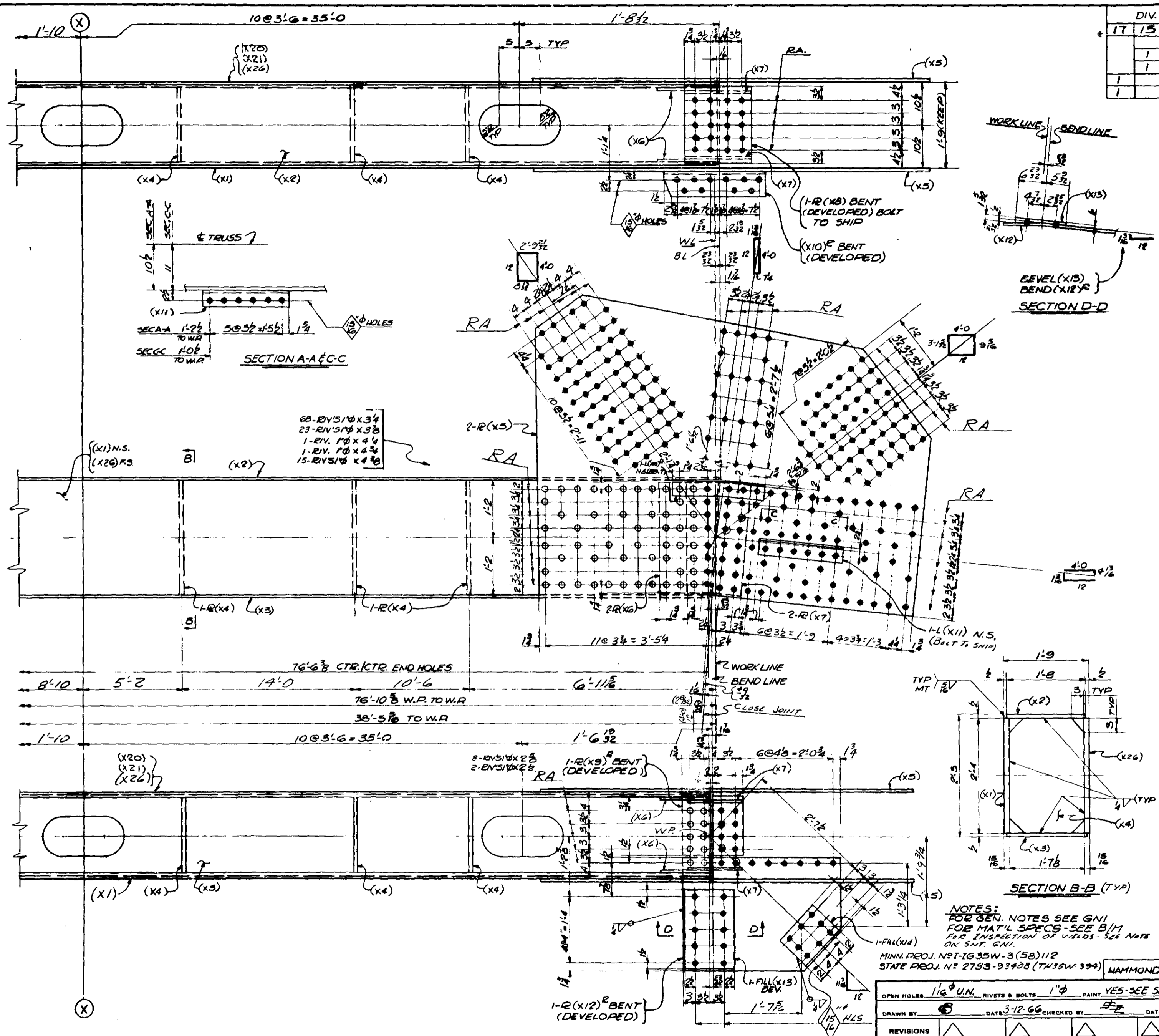


Divs	LINE	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL
15	17	1						
1	2	ONE	UPPER CHORD	-1516 UB - 110 W - AS SHOWN				
1	3	ONE	UPPER CHORD	-1516 UB - 110 E - AS SHOWN				
1	4	ONE	UPPER CHORD	-1516 UB - 110 W - AS SHOWN				
1	5	ONE	UPPER CHORD	-1516 UB - 110 W - AS SHOWN				
7	4	4	R 20 x 1/2	75 11/16	X1		3102	60 41577 3309
8	4	4	R 20 x 1/2	75 11/16	X2		3102	60 41577 3309
9	4	4	R 20 x 1/2	75 11/16	X3		3102	61 10330 3310
10	4	4	R 20 x 1/2	75 11/16	X4		3102	61 10330 3310
11	4	4	R 27 x 1/2	81 3/8	X5		3204	61 8639 3310
12	4	4	R 27 x 1/2	81 3/8	X6	U.M.	3204	61 983 3310
13	4	4	R 19 x 1/2	75 11/16	X7	U.M.	3102	61 189 3310
14	4	4	R 19 x 1/2	75 11/16	X8	U.M.	3102	61 112 3310
15	4	4	R 27 x 1/2	81 3/8	X9		3204	59 362 3306
16	16	16	BAR 7/8 x 1/2	2 4	X10		3204	59 357 3306
17	8	8	BAR 8 x 1/2	1 48	X11		3204	59 111 3306
18	4	4	R 10 x 1/2	2 3/4	X12		3102	59 253 3306
19	8	8	BAR 8 x 1/2	1 58	X13		3204	59 118 3306
20	4	4	R 17 x 1/2	2 3/4	X14		3204	59 268 3306
21	8	8	R 27 x 1/2	1 9 1/2	X15		3204	61 488 3310
22	4	4	L 4 x 4 x 1/2	2 3/4	X16		3204	59 89 3306
23	4	4	L 4 x 4 x 1/2	2 4 1/2	X17		3204	59 94 3306
24	4	4	File Bar 4 x 1/2	1 5 1/2	X18		3204	59 90 3306
25	16	16	R 10 x 1/2	2 4	X19		3204	59 863 3306
26	120	120	BAR 3/8 x 3/8	0 38	X20		3204	59 166 3306
27	8	8	R 23 x 1/2	3 7 1/2	X21		3204	59 1164 3306
28	4	4	R 27 x 1/2	2 4 1/2	X22		3204	59 329 3306
29	4	4	R 12 x 1/2	1 2 1/2	X23		3204	59 73 3306
30	8	8	R 10 x 1/2	1 7 1/2	X24		3204	59 221 3306
31	8	8	R 10 x 1/2	1 3 1/2	X25		3204	59 176 3306
32	8	8	R 19 x 1/2	2 3 1/2	X26		3204	59 412 3306
33	8	8	R 20 x 1/2	2 3 1/2	X27		3204	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. GENI
 MAT. SPECS. SEE BILL OF MAT.
 FOR INSPECTION OF WELDS,
 SEE NOTE ON SUP. GENI.

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. GENI
 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. 9380
 LOCATION MINNEAPOLIS, MINNESOTA
 OWNER MINNESOTA STATE HIGHWAY DEPT.
 CUSTOMER MINNEAPOLIS STATE HIGHWAY DEPT.
 CONTRACT 3142 FABCOD 215 SHEET 1516B



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 - AS SHOWN				
1	5	ONE LOWER CHORD	157 (L13-L17) E - AS SHOWN				
1	6	ONE LOWER CHORD	157 (L13-L17) W - AS SHOWN				
4	R 28 x 1/2	76 1/2 x 1	M.I.E.	59	27483	3306	
4	R 20 x 2	76 1/2 x 8	M.I.E.	59	10470	3306	
4	R 20 x 2	76 9/2 x 8	M.I.E.	59	10442	3306	
24	R 19 x 2	2 1/4 x 8		59	1365	3306	
8	R 7 x 2	8 5 x 8		61	8470	3306	
8	R 15 x 2	2 3/4 x 8		59	471	3306	
8	R 16 x 2	2 4 x 8	U.M.	61	524	3306	
4	R 19 x 2	1 2 x 8	U.M. BENT	61	113	3306	
4	R 14 x 2	1 2 x 8	U.M. BENT	61	117	3306	
4	L 6 x 4 x 1/2	1 1/2 x 10	BENT	59	96	3306	
8	L 4 x 4 x 1/2	1 8 x 11		59	137	3306	
4	R 27 1/2 x 2	5 1/4 x 10	BENT	59	449	3306	
4	REV. ALL R 27 1/2 x 2	1 7 x 8		59	271	3306	
8	ALL 9 x 2	1 0 x 8		59	121	3306	
8	ALL 27 1/2 x 1/2	2 10 x 15	U.M. BENT	59	178	3306	
8	R 22 1/2 x 2	4 1/4 x 8		59	1256	3306	
4	L 6 x 4 x 1/2	1 10 x 11		59	92	3306	
4	R 25 1/2 x 2	3 8 x 10		59	487	3306	
4	ALL 12 x 2	1 6 x 10		59	128	3306	
4	3/8 WLD	307 6				NC	
4	1/4 WLD	100 9				NC	
764	1" RIV.					NC	
2	R 28 x 1/2	76 1/2 x 1	M.I.E.	59	13742	3306	
8	R 27 1/2 x 2	1 10 x 12	M.I.E.	59	1040	3306	
1	R 28 x 1/2	76 1/2 x 1	M.I.E.	59	4871	3306	
1	R 28 x 1/2	76 1/2 x 1	M.I.E.	59	4871	3306	
4	FILL 12 x 2	2 10 x 12		59	28	3306	
4	FILL 14 x 2	2 10 x 12		59	21	3306	
4	FILL 5 x 2	2 8 x 10		59	23	3306	
BID ITEM	59	83648					
BID ITEM	61	9224					

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1400 15TH STREET, HARBOR, INDIANA 46320

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.

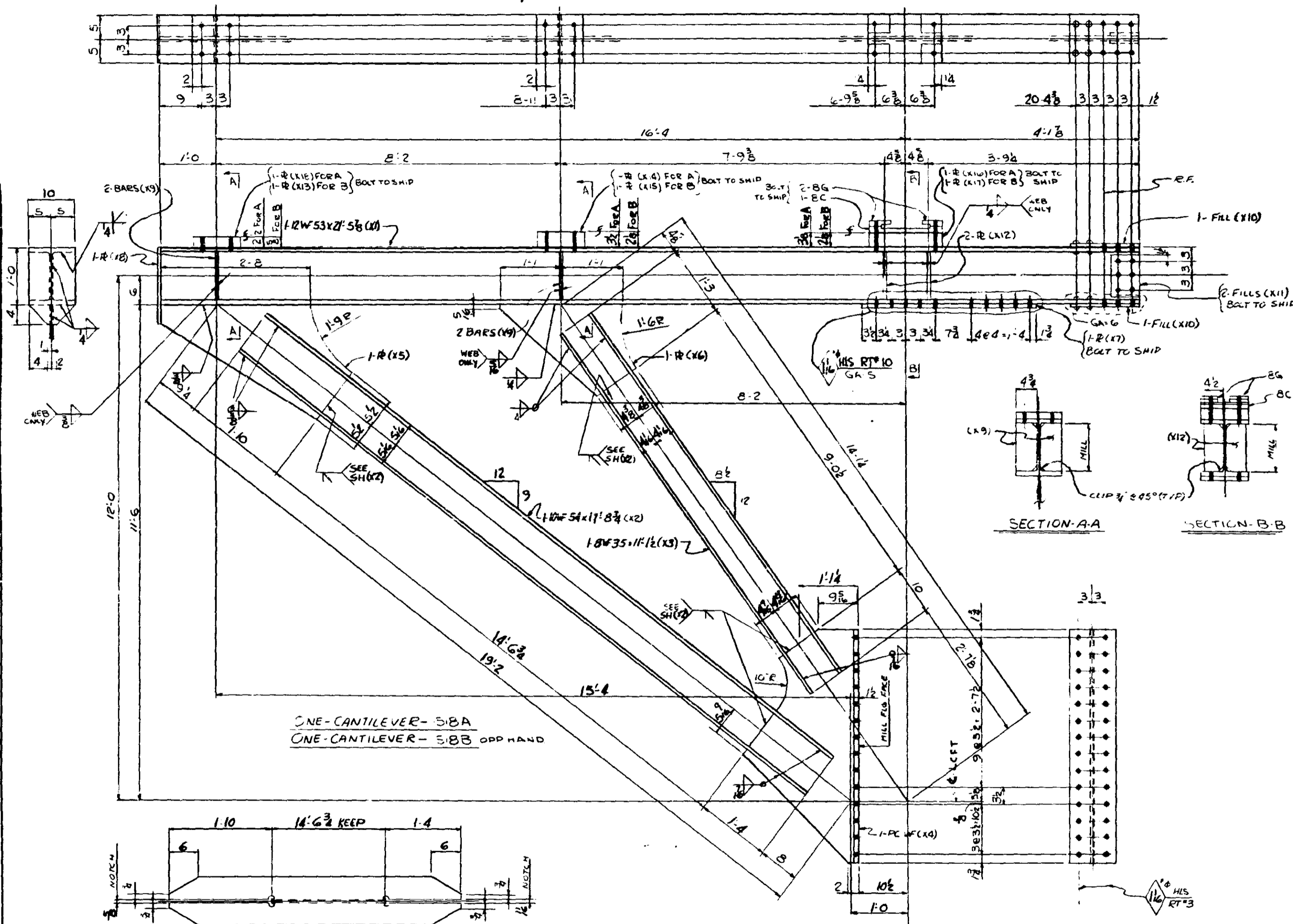
MINN. PROJ. NBT-16.55W-3 (58)112
 STATE PROJ. NO. 2793-93428 (7435W 394) HAMMOND FAB.

OPEN HOLES: 1/8" U.N. RIVETS & BOLTS: 1" PH. PAINT: YES-SEE SHT GNI

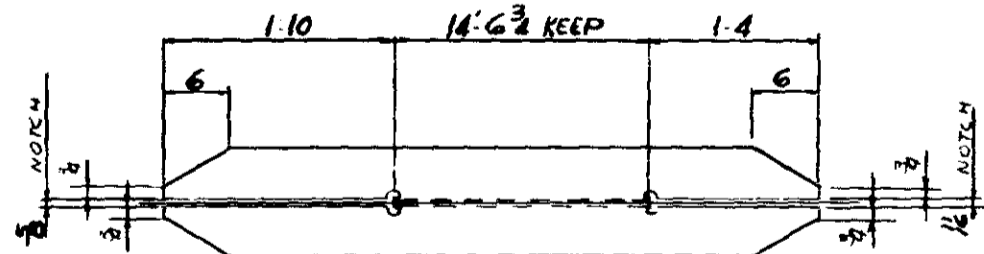
DRAWN BY: [Signature] DATE: 3-12-66 CHECKED BY: [Signature] DATE: 4/8/66

REVISIONS: [Table with 4 columns and 4 rows of revision symbols]

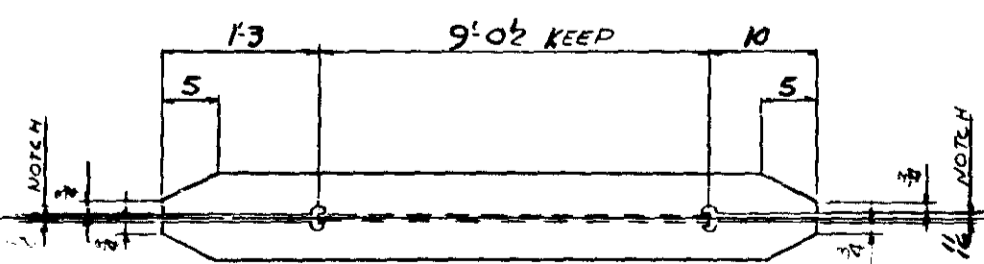
CONTRACT 3142 FABCOD 215 SHEET 1517 B



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

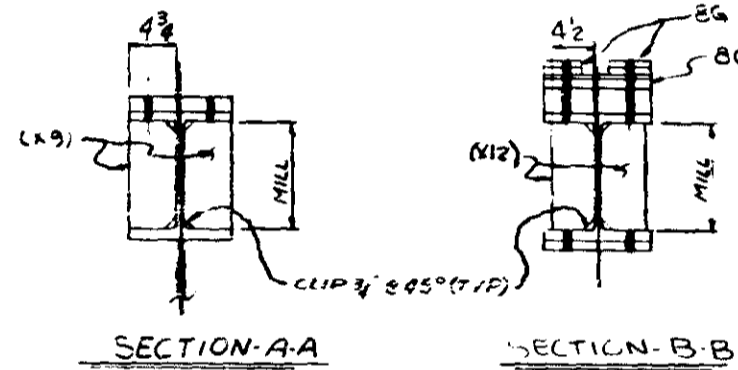


FLANGE CUTTING FOR (X2) *



FLANGE CUTTING FOR (X3) *

* SEE SHT X1 & X2 FOR BEVEL CUTS FOR WELDING



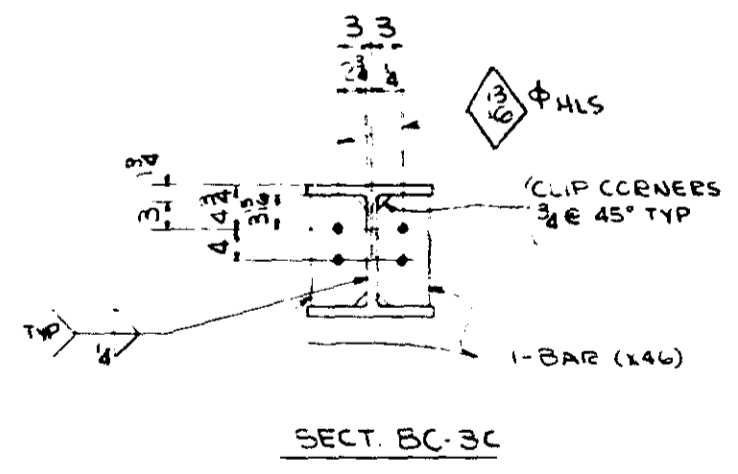
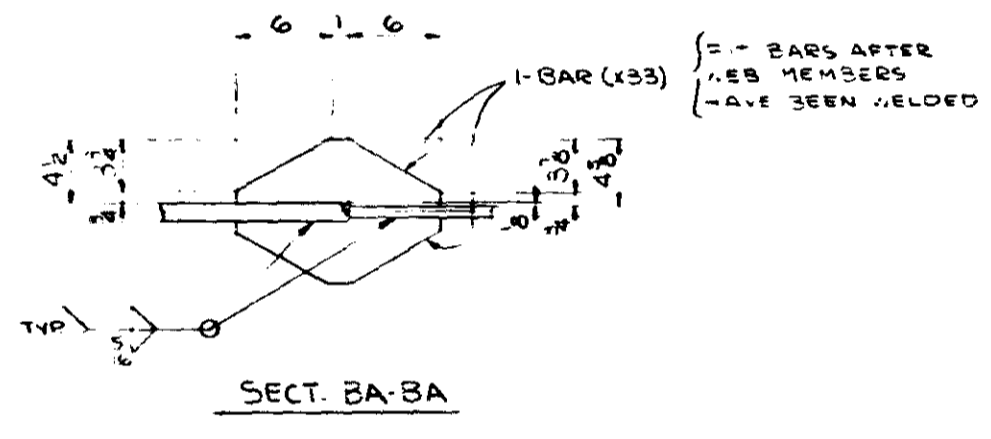
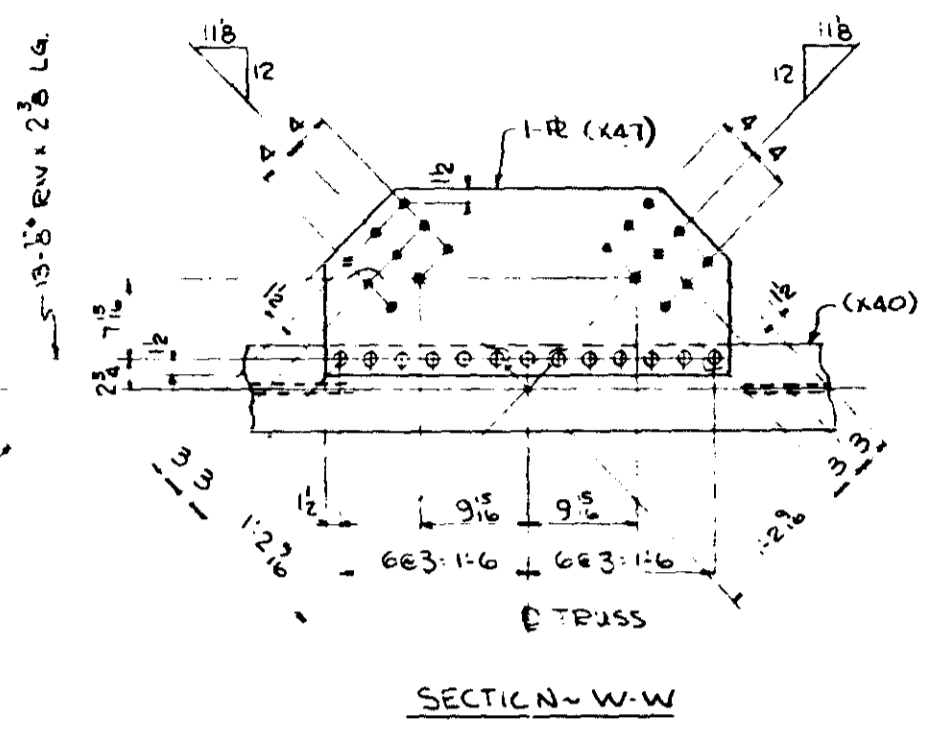
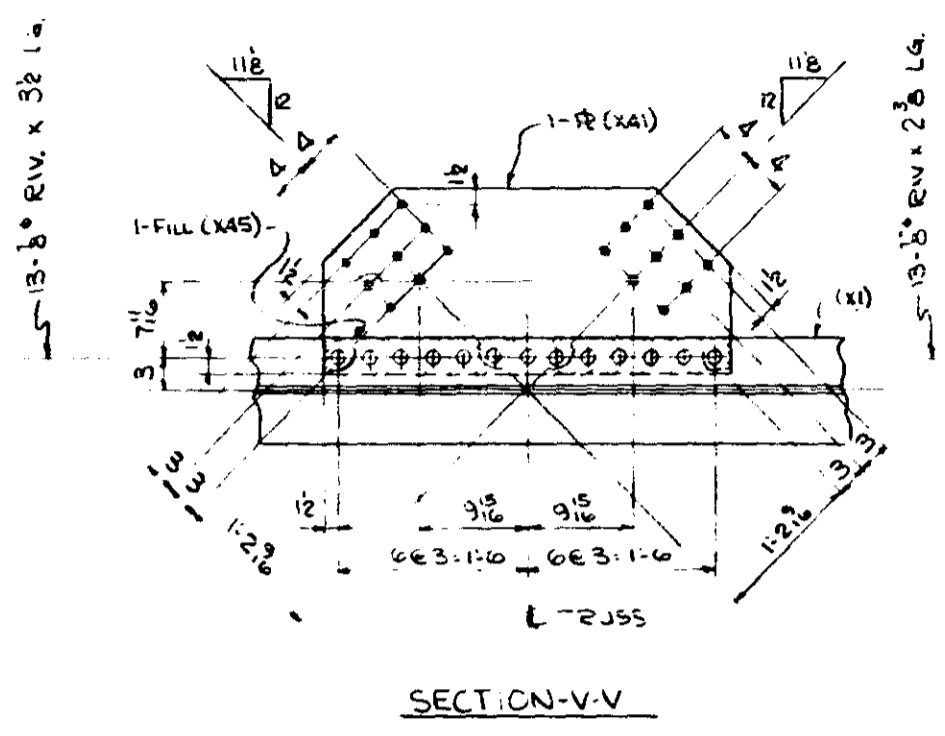
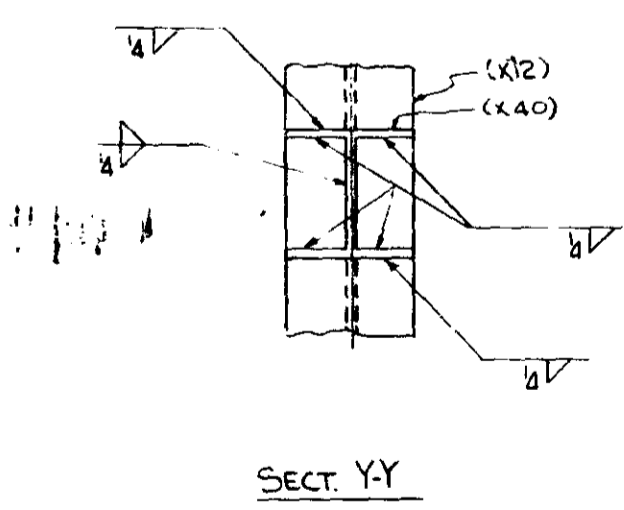
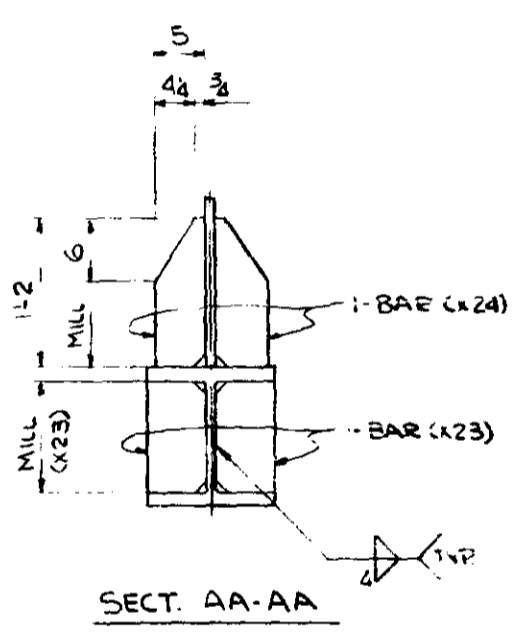
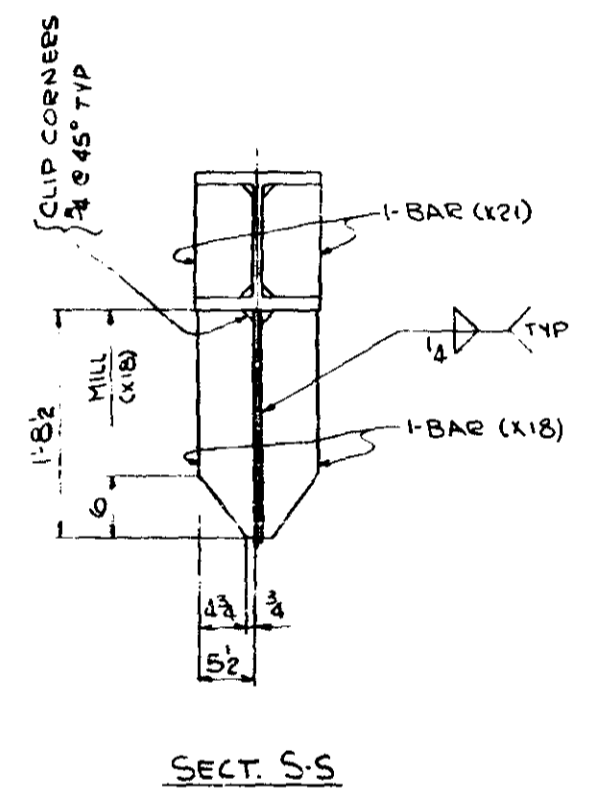
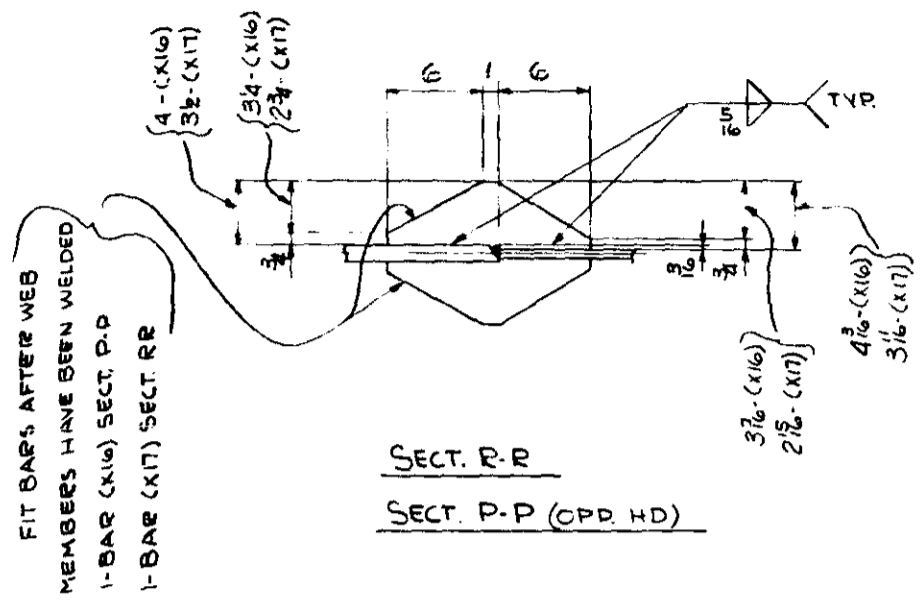
SHOP NOTE:
1. FOR GEN'L NOTES SEE GNI
2. FOR MAT'L SPECS. SEE BILL OF MATERIAL
3. FOR X-RAY IDENT. SEE SHEET W1
4. FOR INSPECTION OF WELDS - SEE NOTE ON SW GNI
5. FOR SHOP WELDING SEQUENCE OF WEB MEMBERS - SEE DRWG. (X1)

LINE	QTY	SHAPES	LENGTH	PC	REMARKS	ITEM	TOTAL WEIGHT	MAWD SPEC.
4	1	SIBA ONE	CANTILEVER	(168 x 21'6")	AS SHN			
5	1	SBB ONE	CANTILEVER	(148 x 21'4")	OPP HD			
9	2	12 WF 53		21'5 1/2 x 1		4001	59	2278 3306
10	2	10 WF 54		17'0 3/4 x 2		4520		1915
11	2	8 WF 35		11'1 1/2 x 3		4611		777
12	2	R 30 WF 108		4'1" x 4" M. FLG.		4402		882
13	2	R 23 1/2 x 2		3'4 1/2 x 5		4403		268
14	2	R 19 x 8		2'5 1/2 x 6		4404		119
15	2	R 10 x 8		3'5 1/2 x 7	UM	4405		176
16	2	R 10 x 8		1'4" x 8		4406		34
17	2	R 4 1/2 x 2		0'10 1/2 x 9	MZE	4407		59
18	4	FILL 10 x 10		1'3" x 10		4408		74
19	4	FILL 10 x 10		0'9" x 11		4409		8
20	8	R 4 1/2 x 2		0'10 1/2 x 12	MZE	4410		55
21	2	R 10 x 8		0'10 x 13	FOR B	4411		18
22	2	R 10 x 8		0'10 x 14	FOR A	4412		103
23	2	R 10 x 8		0'10 x 15	FOR B	4413		64
24	2	R 10 x 8		1'3 3/4 x 16	FOR A	4414		140
25	2	R 10 x 8		1'3 3/4 x 17	FOR B	4415		97
26	1	R 10 x 2 1/2		0'10 x 18	FOR A	4416	59	74 3306
27								
28	B	2			FOR DET			
29	2				SEE SHT 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	1/2 WLD		7'4"				
41	2	3/8 WLD		0'5 1/2"				
42	16	8° RLV						
43	24	SB						
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ALLIED STRUCTURAL STEEL COMPANY
FABRICATORS & ERectors

MINN. PROJ. NO. I-1635W-3 (5B) 112
STATE PROJ. NO. 2183-9340B (TH 35W-39A)
DIVISION 15
CLINTON FAB
DETAILS OF
STRUCTURE BRIDGE # 9340
LOCATION MINNEAPOLIS, MINNESOTA
OWNER MINNESOTA STATE HWY. DEPT.
CUSTOMER MINNESOTA STATE HWY. DEPT.

CONTRACT 3142 FABCOD 244 SHEET 1518

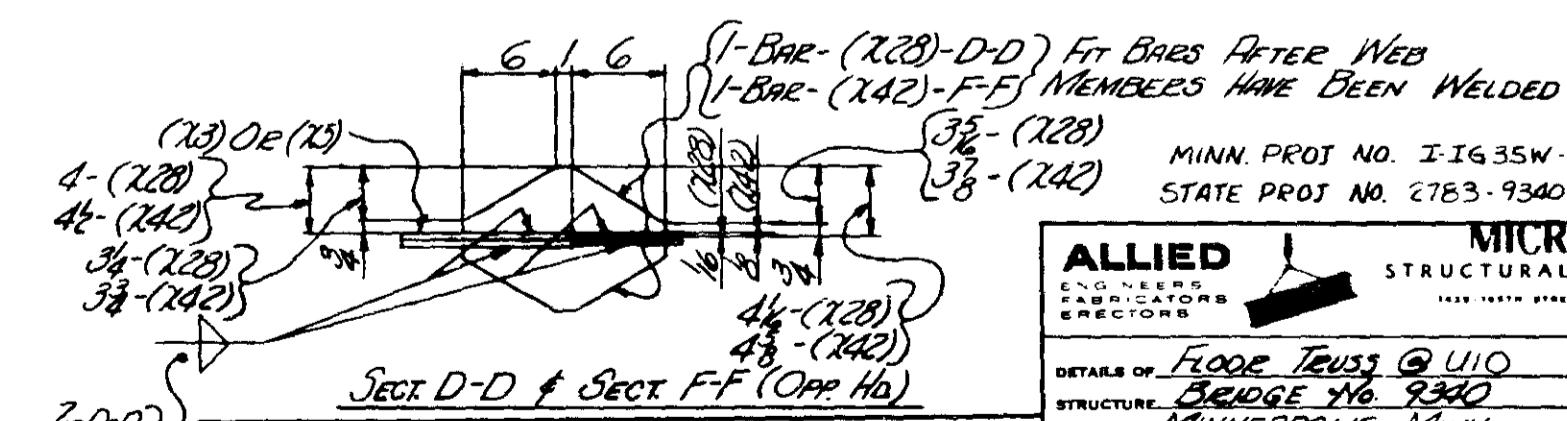
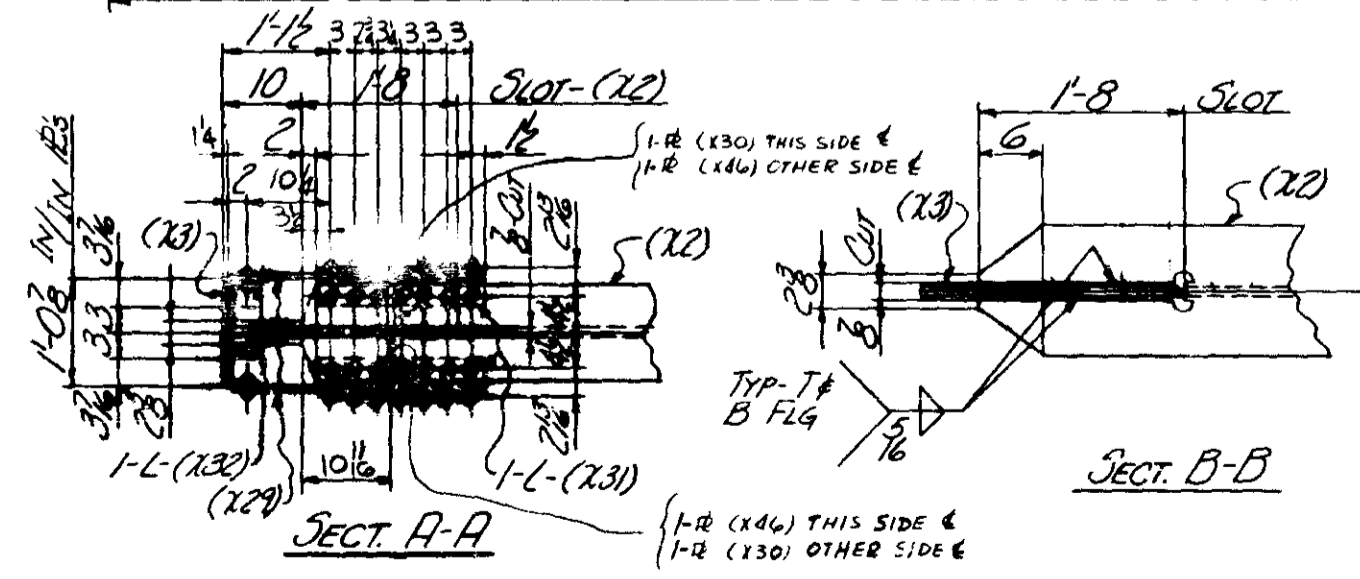
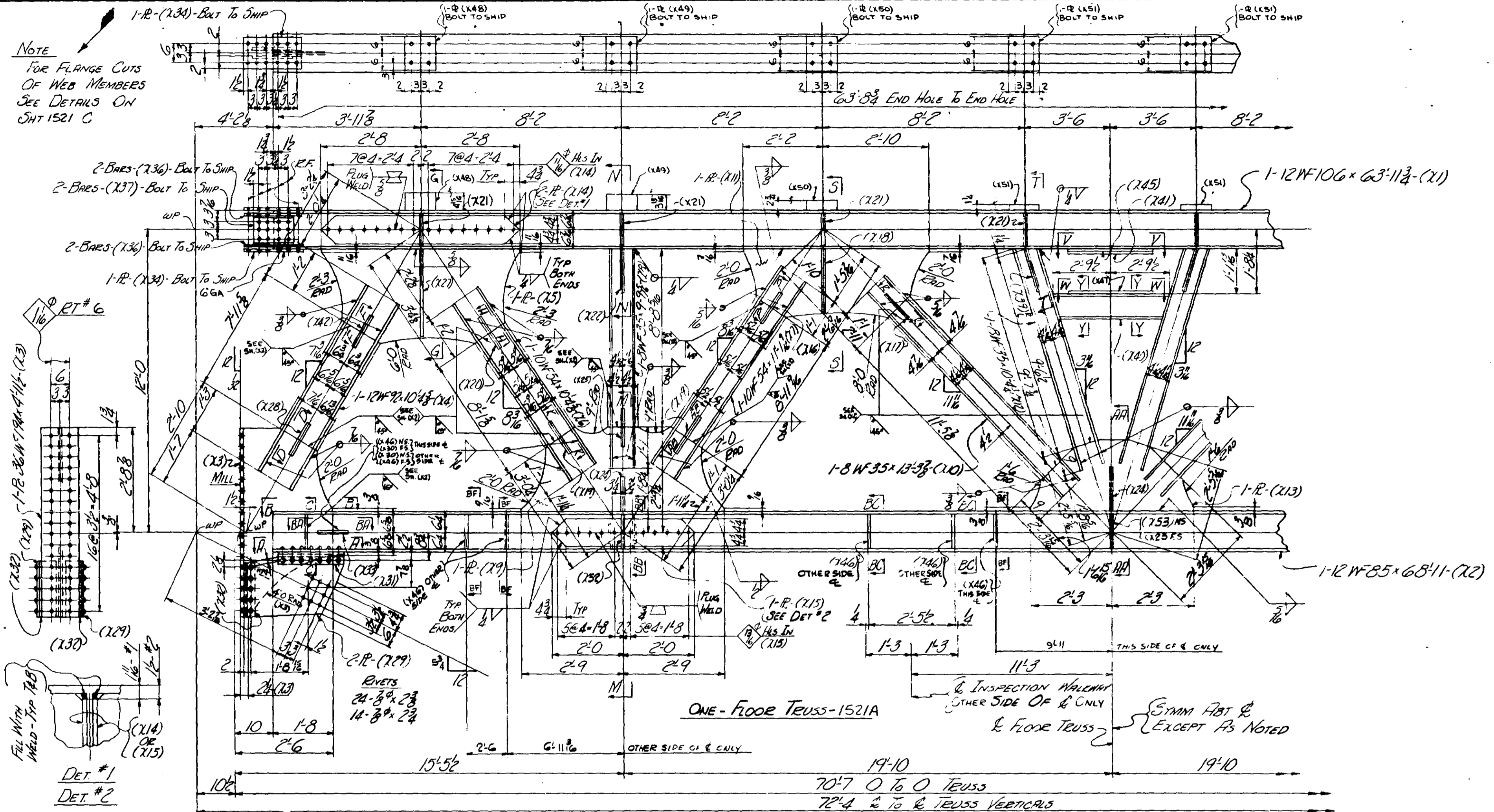


MINN. PROJ NO - I-1635W-3 (58)112
 STATE PROJ NO 2783-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS ARCHITECTS FABRICATORS ERECTORS
 1515 15TH STREET MINNEAPOLIS, MINN. 55403

REVISIONS	DRAWN BY: <u>JN</u> DATE: <u>3/3/66</u>	DETAILS OF: <u>FLOOR TRUSS @ U9</u>
	CHECKED BY: <u>JZ</u> DATE: <u>4/3/66</u>	STRUCTURE: <u>BRIDGE NO 9340</u>
	IN CHARGE OF: <u>J NEWELL</u>	LOCATION: <u>MINNEAPOLIS, MINNESOTA</u>
	FAB PLANT: _____	OWNER: <u>MINNESOTA STATE HWY. DEPT.</u>
REFERENCE DWGS: <u>E12</u>		
CONTRACT <u>3142</u>		DIV <u>15</u>
		FABCOD <u>244</u>
		SHEET <u>1519 BC</u>

NOTE
FOR FLANGE CUTS
OF WEB MEMBERS
SEE DETAILS ON
SHT 1521 C

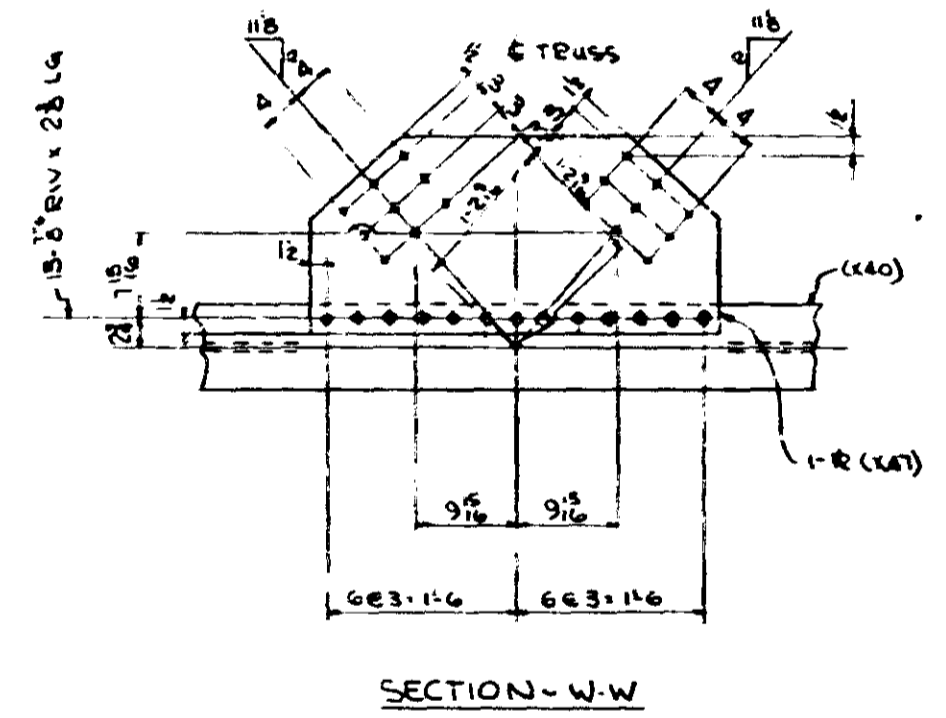
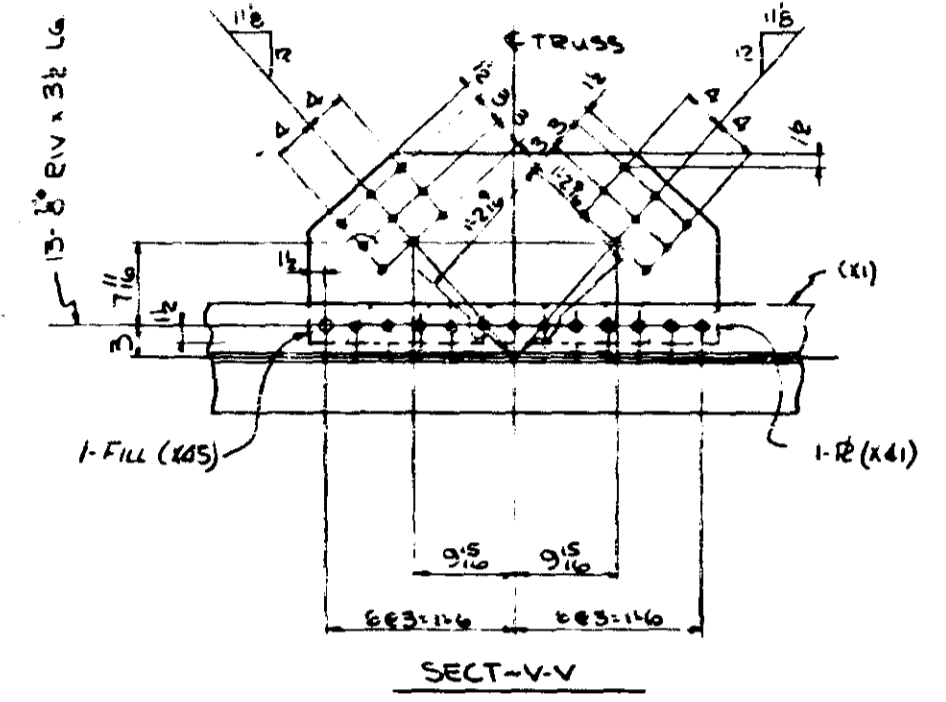
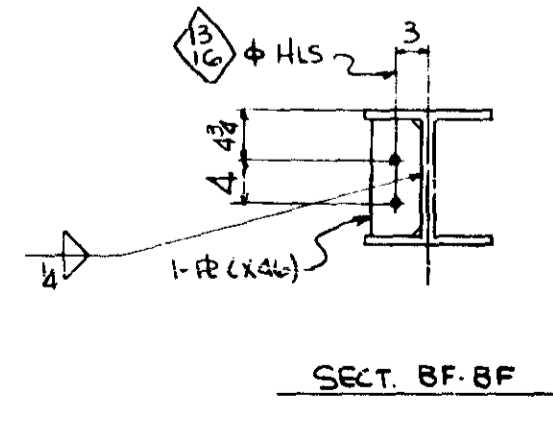
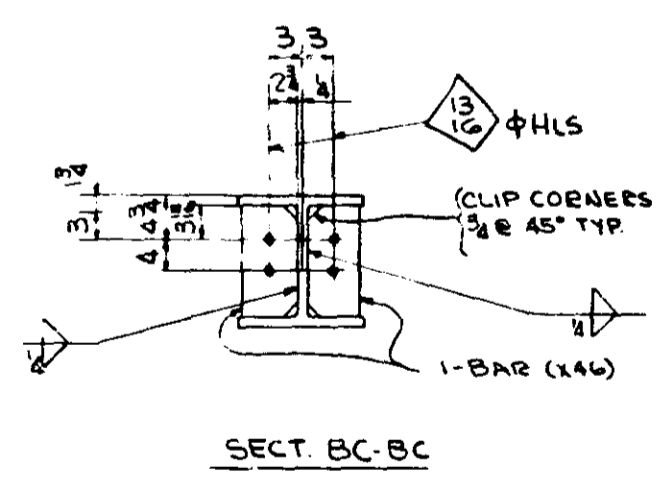
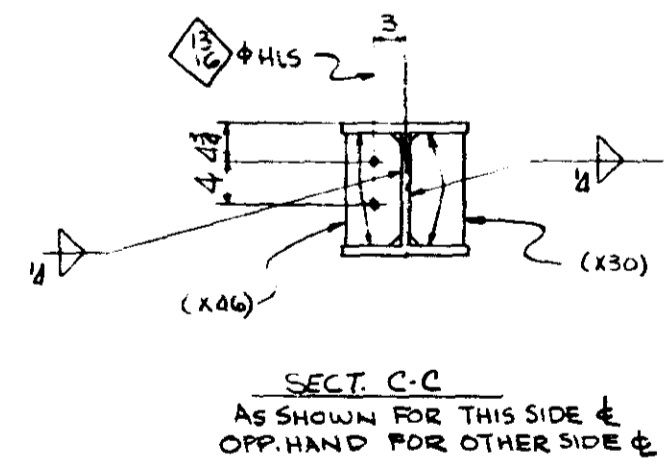
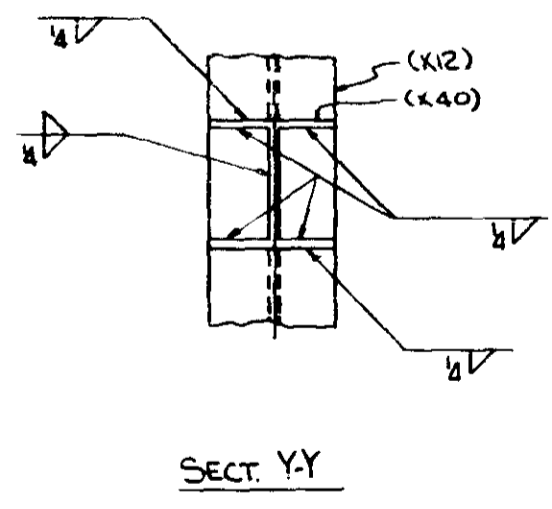
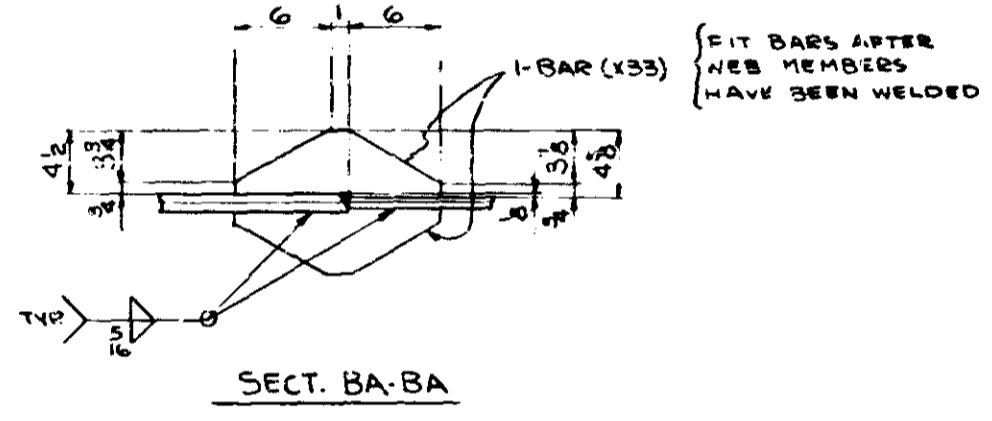
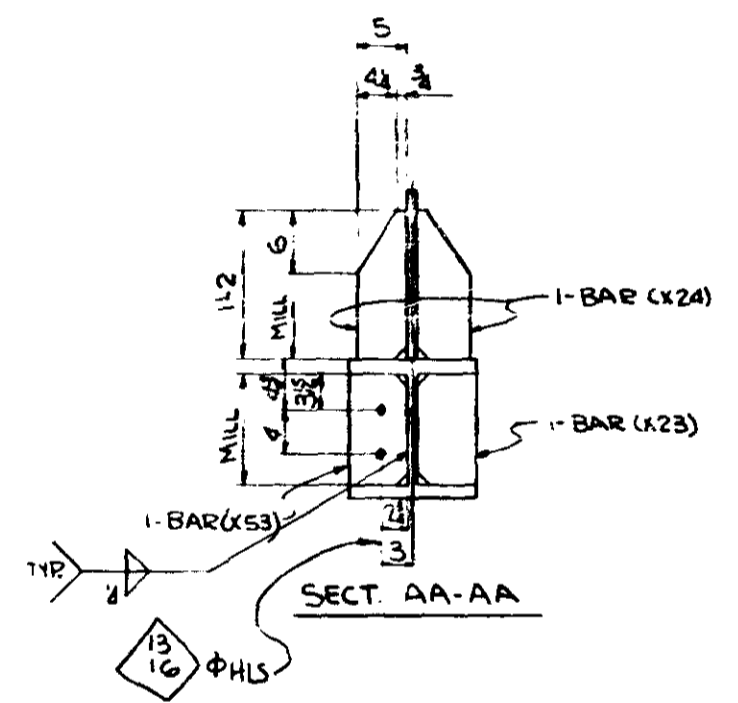
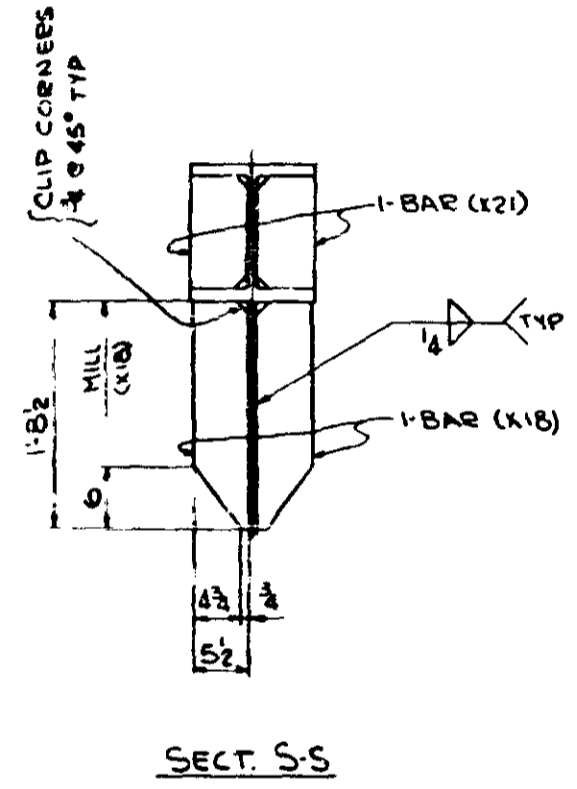
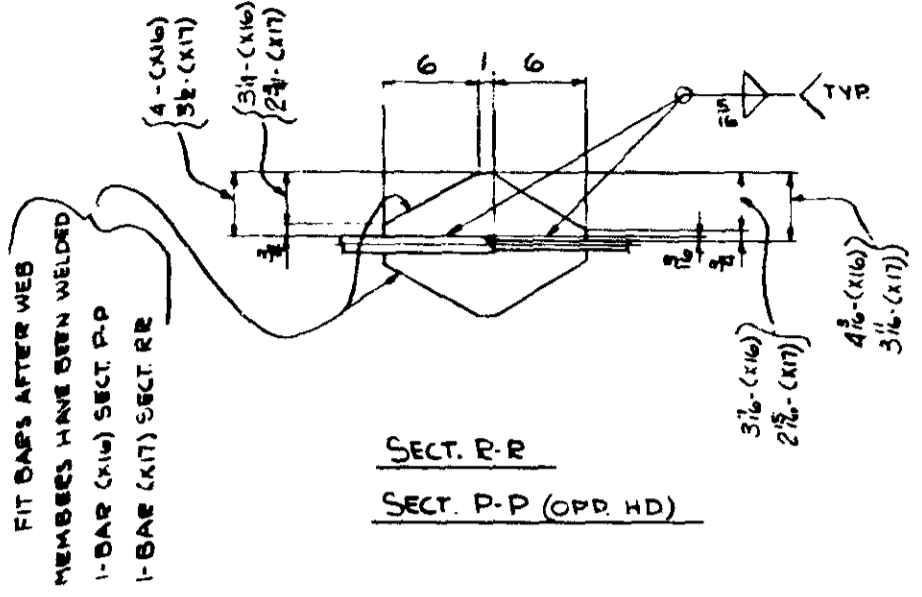


MINN. PROT NO. I-1635W-3(CSB)112
STATE PROT NO. 2783-9340B (TH35W-394)

ALLIED MICRO-FILMED
ENGINEERS
STRUCTURAL STEEL COMPANY
1425 15TH STREET, WARREN, MICHIGAN 48090

DETAILS OF FLOOR TRUSS @ U10
STRUCTURE BRIDGE No. 9340
LOCATION MINNEAPOLIS, MINN.
OWNER MINN. STATE HWY DEPT
CUSTOMER MINN. STATE HWY DEPT

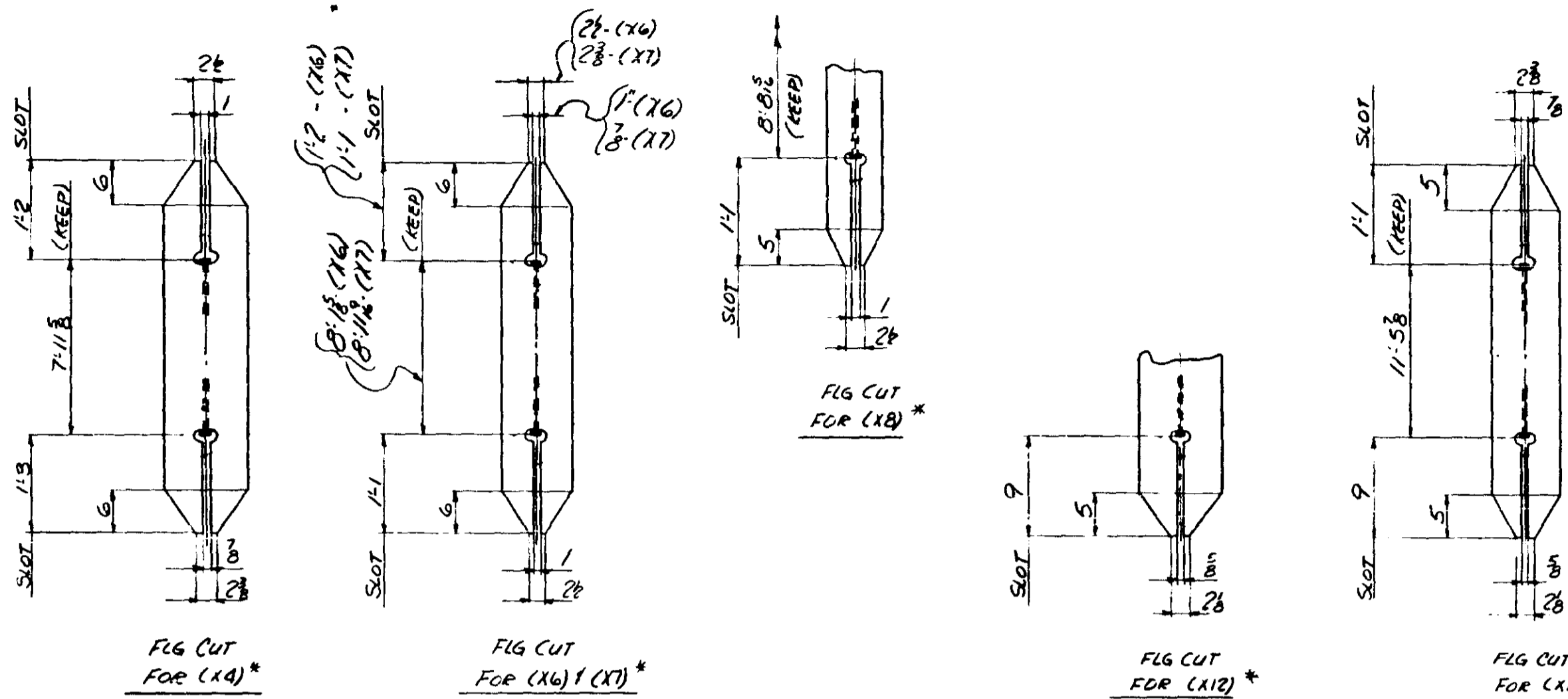
DRAWN BY: <i>SM</i>	DATE: 4-25-60	CHECKED BY: <i>FE</i>	DATE: 4-25-60
REVISIONS	216-61	216-61	216-61
	△	△	△
CONTRACT	3142	FABCOD	244
SHEET	1521 AC		



MINN. PROJ. NO. I-1635W-3(5B)112
STATE PROJ. NO. 2703-9340B (TH 35W-3M)

ALLIED ENGINEERS, ARCHITECTS & STRUCTURAL STEEL COMPANY
FABRICATORS & ERECTORS
1425 HENRY STREET, MINNEAPOLIS, MINN. 55403
MICRO-FILMED

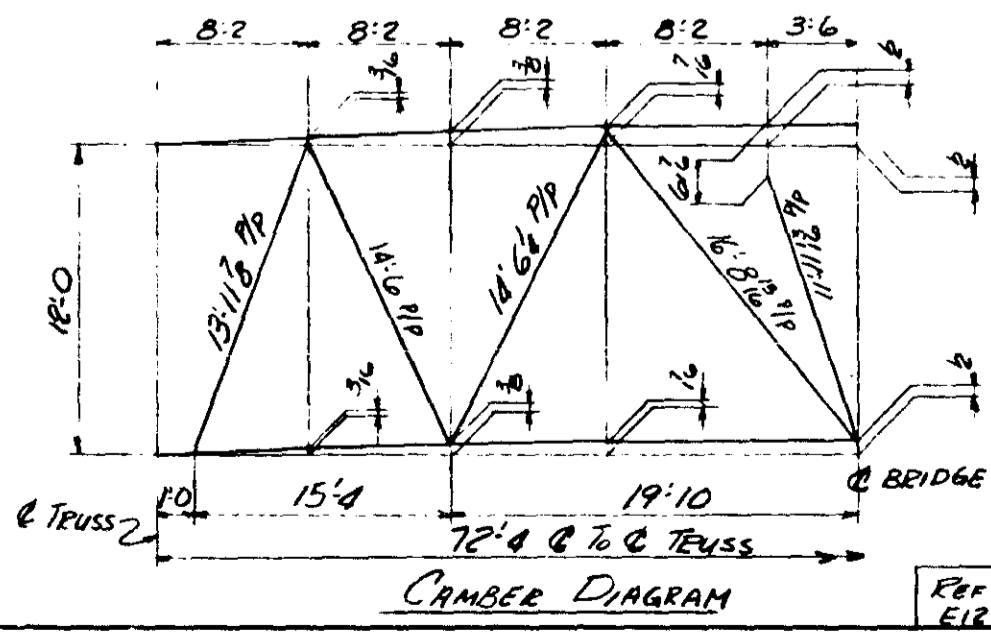
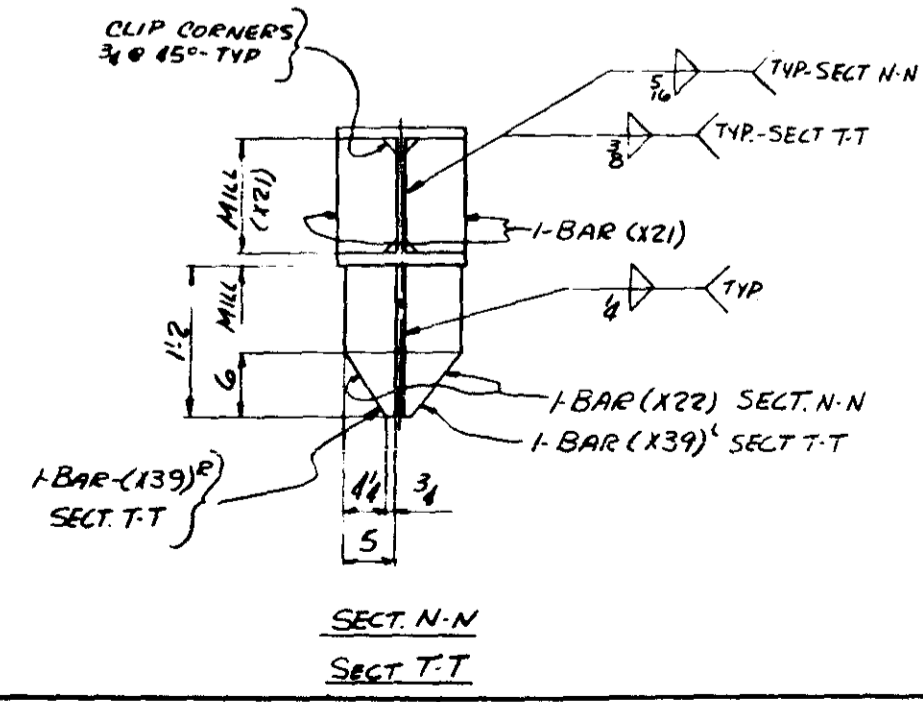
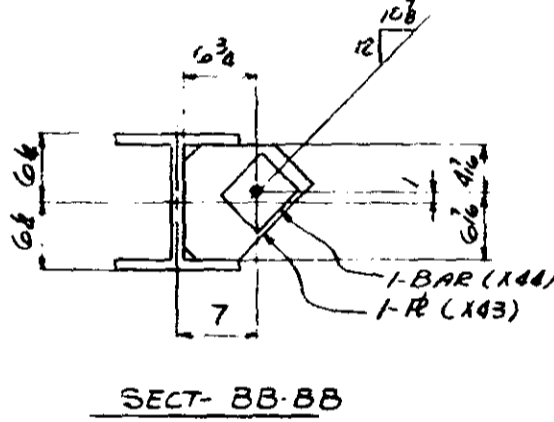
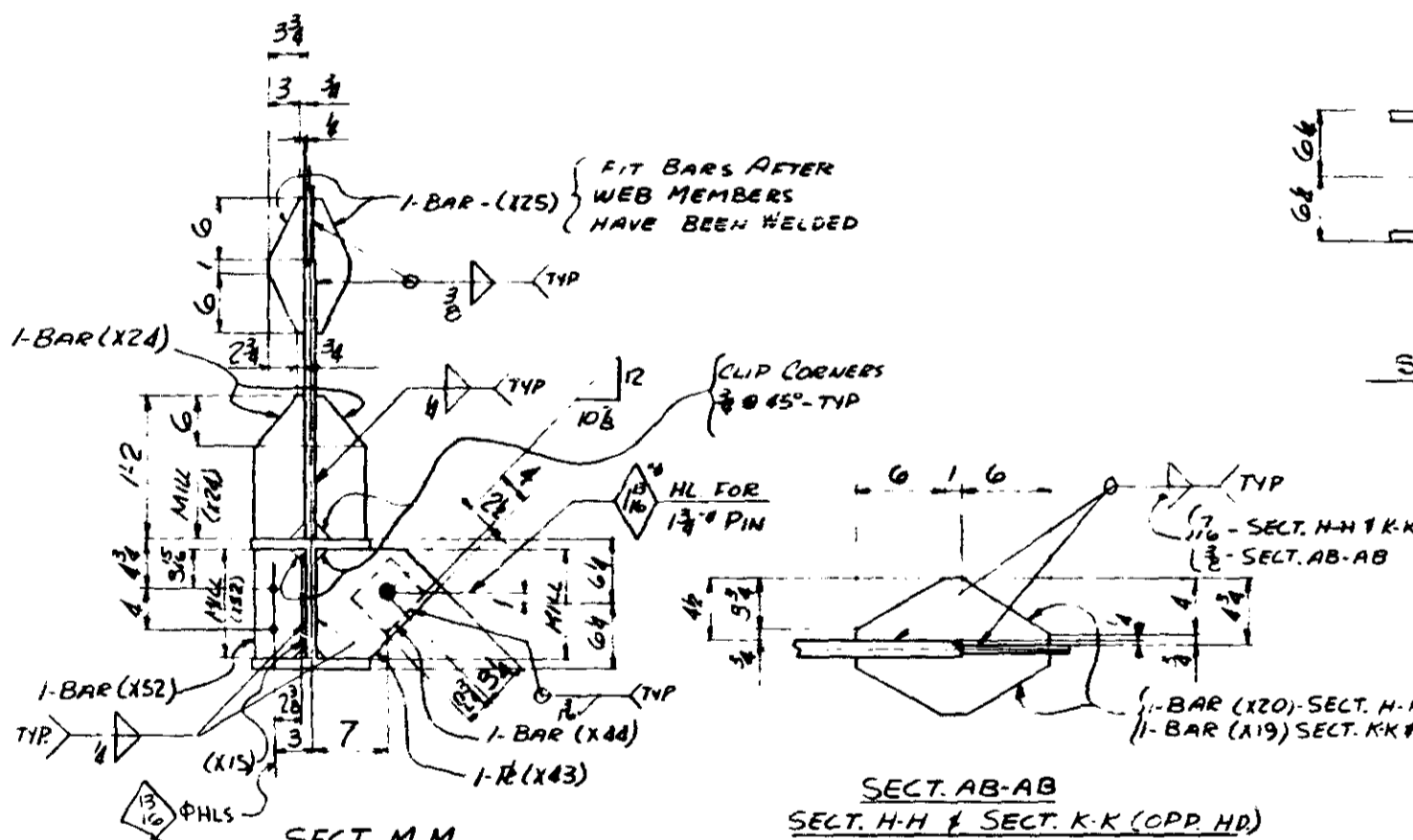
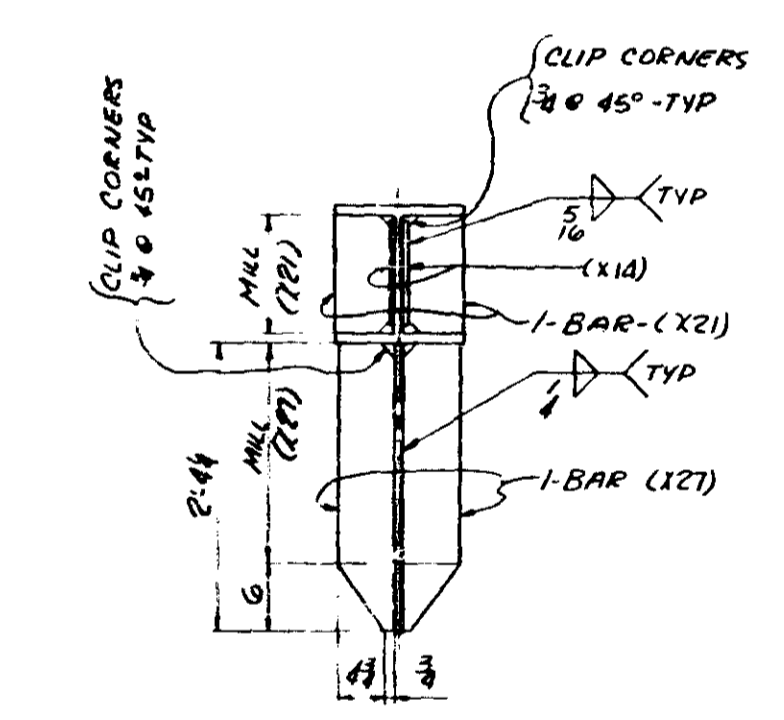
REVISIONS	DRAWN BY <u>JH</u> DATE <u>4/25/66</u>	DETAILS OF <u>FLOOR TRUSS @ U10</u>
	CHECKED BY <u>EP</u> DATE <u>4/26/66</u>	STRUCTURE <u>BRIDGE NO. 9340</u>
	IN CHARGE OF <u>J. NEWELL</u>	LOCATION <u>MINNEAPOLIS, MINNESOTA</u>
	FAB. PLANT <u>CLINTON</u>	OWNER <u>MINNESOTA STATE HWY. DEPT.</u>
	REFERENCE DWGS <u>EIR</u>	
0		CONTRACT <u>3142</u>
U		DIV. <u>15</u>
E		FAB. CODE <u>244</u>
A		SHEET <u>1521 BC</u>



LINE	SWP	NO	SHAPE	LENGTH	TOTAL WEIGHT
72	1	1/4 WLD	7 2	NC	
73	1	1/4 WLD	152 8		
74	1	3/8 WLD	267 8		
76	1	3/8 WLD	126 6		
76	1	1/4 WLD	116 8		
77	1	1/2 WLD	21 6		
78	1	5/8 WLD	21 4		
79	1	3/4 WLD	3 9		

BID ITEM
59 = 24866

* SEE SHTS XI & X2 FOR BEVEL CUTS FOR WELDING



- SHOP NOTE**
- FOR GEN. NOTES SEE SH. GN1
 - FOR MAT'L SPECS SEE BILL OF MAT'L
 - FOR X-RAY IDENT. NO SEE SH. W1
 - FOR INSPECTION OF WELDS SEE NOTE ON SH. GN1
 - FOR SHOP WELDING SEQ OF WEB MEMBERS SEE DRWG (X1)

LINE	SHIP	NO	SHAPE	LENGTH	PC	REMARKS	ITEM	TOTAL WEIGHT	MADE
1	1521A	100	FLOOR TRUSS						
3	1	12WF106	63 11 1/2	X1		FOR PAY WT SEE LINE 59	406	59	3306
4	1	12WF106	28 0						2968
5	2	12WF65	17 11 1/8						2339
6	1	12WF85	68 11	X2		FOR PAY WT SEE LINE 59	4502		
7	1	12WF85	45 8						3882
8	2	12WF65	11 7 1/2						1511
9	2	R 36WF194	4 11 1/2	X3		M.F.L.G.	4003		1024
10	2	12WF92	10 4 1/2	X4			4510		1911
11	2	R 30 1/2	5 4	X5			4004		952
12	2	10WF54	10 4 1/2	X6			4511		1122
13	2	10WF54	11 1/2	X7			4513		1202
14	2	8WF35	9 9 1/2	X8			452		684
15	2	R 27 1/2	5 6	X9			4005		884
16	2	8WF35	13 3 1/2	X10			4514		933
17	2	R 22 1/2	5 0	X11			4006		561
18	2	8WF35	10 4 1/2	X12			456		728
19	1	R 23 1/2	4 6	X13			4007		176
20	4	R 9 1/2	5 4	X14			4023		215
21	2	R 9 1/2	4 0	X15			4022		97
22	4	BAR 4 1/2	1 1	X16		SEE LINE 23	4023		
23	1	BAR 4 1/2	3 2 1/2			LINE 23			23
24	4	BAR 3 1/2	1 1	X17		SEE LINE 25	4024		
25	1	BAR 3 1/2	3 3 1/2			PAY WT FOR LINE 25			16
26	4	BAR 5 1/2	1 8 1/2	X18		SEE LINE 27	4025		
27	2	BAR 5 1/2	3 0 1/2			PAY WT FOR LINE 27			56
28	8	BAR 1 1/2	1 1	X19		SEE LINE 29	4026		
29	1	BAR 1 1/2	6 1 1/2			PAY WT FOR LINE 29			74
30	4	BAR 1 1/2	1 1	X20		SEE LINE 31	4027		
31	1	BAR 1 1/2	3 2 1/2			PAY WT FOR LINE 31			45
32	16	BAR 5 1/2	0 10 1/2	X21		M.F.E.	4028		136
33	4	BAR 5 1/2	1 2	X22		PAY WT FOR LINE 33	4029		
34	2	BAR 5 1/2	1 1 1/2			PAY WT FOR LINE 34			33
35	1	BAR 5 1/2	0 10 1/2	X23		M.F.E.	4030		6
36	6	BAR 5 1/2	1 2	X24		PAY WT FOR LINE 36	4031		
37	3	BAR 5 1/2	1 1 1/2			PAY WT FOR LINE 37			49
38	4	BAR 3 1/2	1 1	X25		SEE LINE 39	4032		
39	1	BAR 3 1/2	3 4			PAY WT FOR LINE 39			16
40	4	R 17 1/2	2 7 1/2	X26		PAY WT FOR LINE 40	4033		343
41	2	BAR 5 1/2	4 4 1/2			PAY WT FOR LINE 41			81
42	4	BAR 4 1/2	1 1	X27		SEE LINE 43	4034		
43	1	BAR 4 1/2	3 3 1/2			PAY WT FOR LINE 43			13
44	4	R 17 1/2	2 7 1/2	X28		PAY WT FOR LINE 44	4035		343
45	2	BAR 5 1/2	0 10 1/2	X29		M.F.E.	4036		13
46	4	R 10 1/2	1 9	X30		PAY WT FOR LINE 46	4037		69
47	4	R 10 1/2	1 5 1/2	X31		PAY WT FOR LINE 47	4038		61
48	4	BAR 1 1/2	1 1	X32		SEE LINE 51	4039		
49	4	R 10 1/2	1 6 1/2	X33		PAY WT FOR LINE 49	4040		103
50	8	BAR 1 1/2	1 6 1/2	X34		PAY WT FOR LINE 50	4041		62
51	4	R 9 1/2	1 0 1/2	X35		PAY WT FOR LINE 51	4042		47
52	4	BAR 5 1/2	1 2	X36		PAY WT FOR LINE 52	4043		
53	2	BAR 5 1/2	1 1 1/2			PAY WT FOR LINE 53			33
54	1	8WF35	5 7	X37			4504		195
55	1	R 18 1/2	3 3	X38			4044		75
56	4	BAR 1 1/2	1 1	X39		SEE LINE 57	4045		
57	1	BAR 1 1/2	3 2 1/2			PAY WT FOR LINE 57			38
58	4	R 10 1/2	1 0	X40		M.F.E.	4046		55
59	4	BAR 5 1/2	0 5 1/2	X41		M.F.E.	4047		10
60	1	BAR 1 1/2	3 3	X42			4048		16
61	9	BAR 5 1/2	0 10 1/2	X43		M.F.E.	4049		57
62	1	BAR 1 1/2	3 2 1/2			PAY WT FOR LINE 62			38
63	1	R 18 1/2	3 3	X44			4050		16
64	2	R 10 1/2	1 0	X45		F.F.S.	4051		
65	2	R 10 1/2	1 0	X46		F.F.S.	4052		
66	2	R 10 1/2	1 0	X47		F.F.S.	4053		
67	2	R 10 1/2	1 0	X48		F.F.S.	4054	59	3306
68	2	BAR 5 1/2	0 10 1/2	X49		M.F.E.	4055	59	13 3306
69	1	BAR 5 1/2	0 10 1/2	X50		M.F.E.	4056	59	6 3306
70	102	3/8 R.V							NC
71	36	S.B							NC

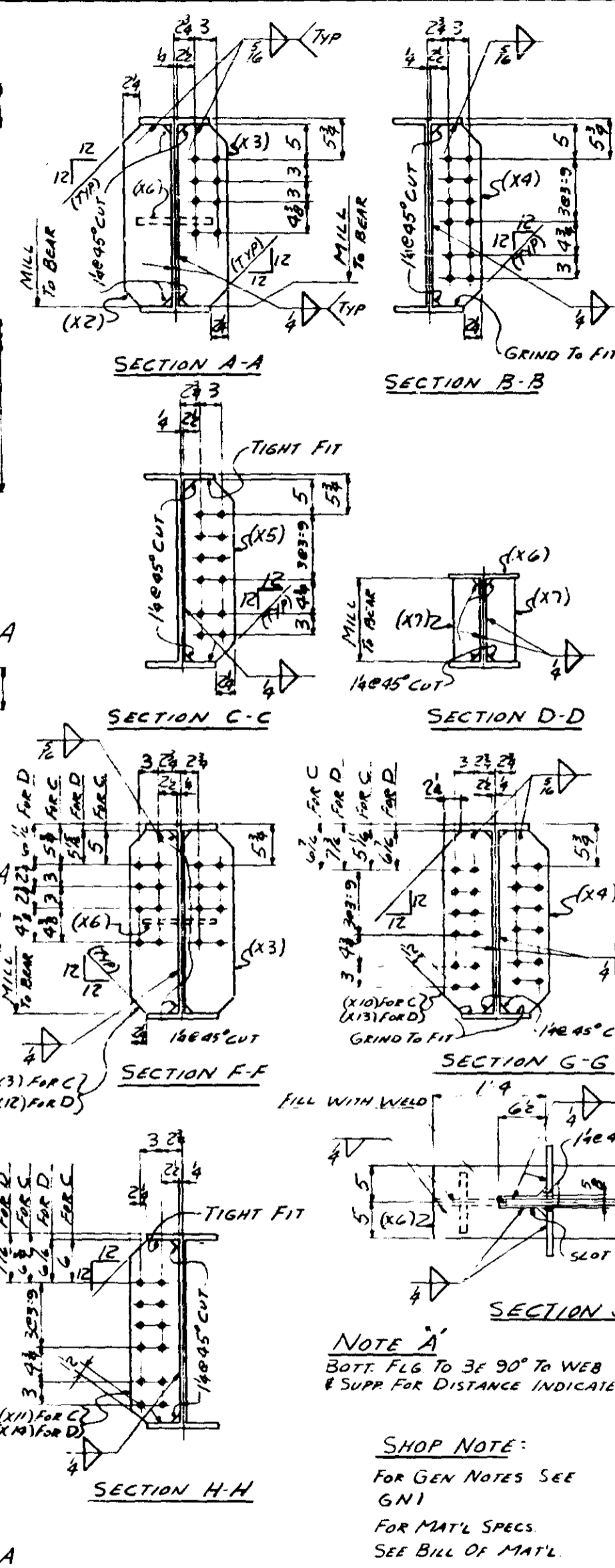
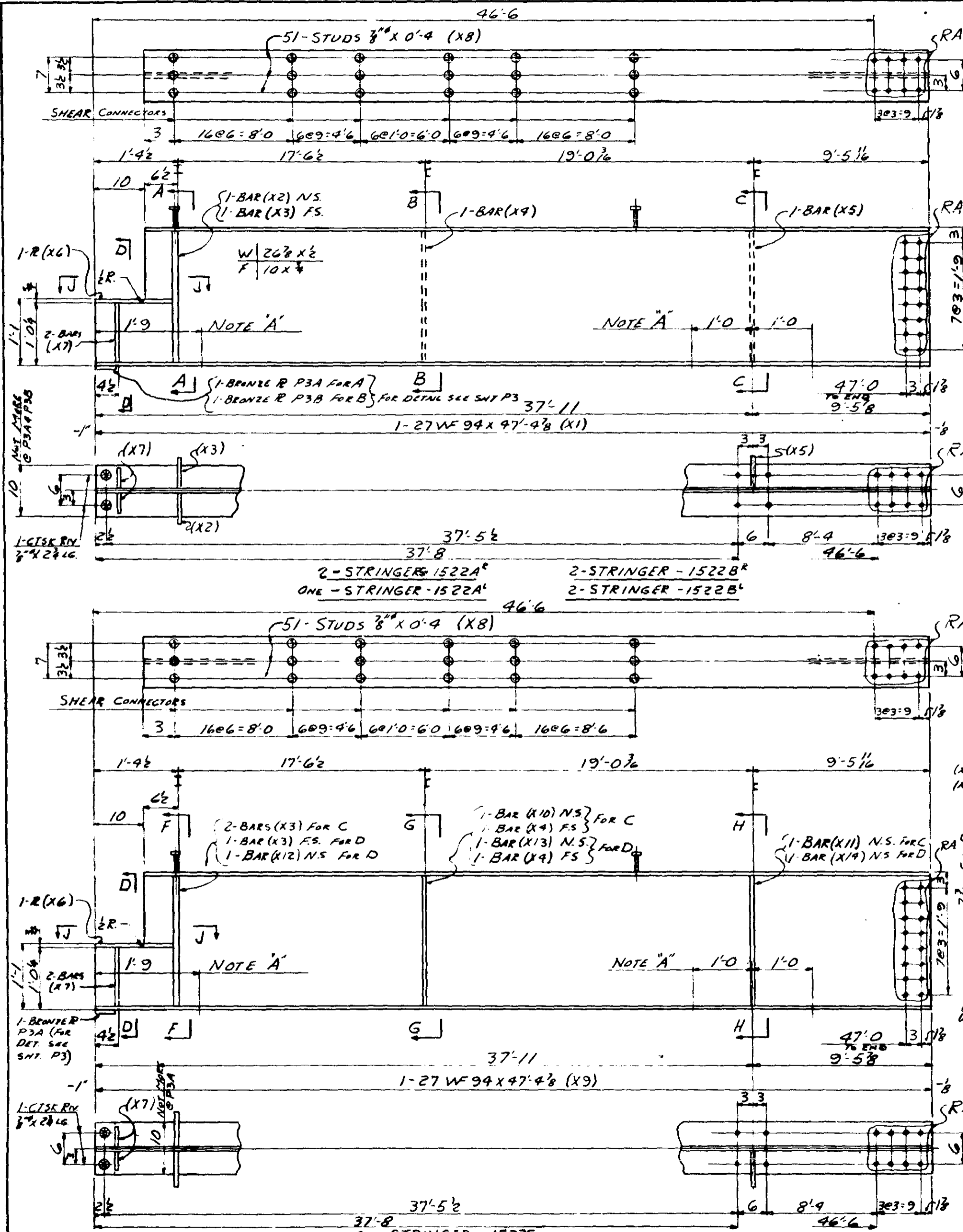
MINN PROJ. NO I-1635W-3(58)112
STATE PROJ. NO 2783-9340 B(TN35W-394)

ALLIED STRUCTURAL STEEL COMPANY
1222 12TH STREET S.W. MINNEAPOLIS, MINN.

DETAILS OF: FLOOR TRUSS @ UID
STRUCTURE: BRIDGE NO 9340
LOCATION: MINNEAPOLIS, MINN.
OWNER: MINN STATE HWY DEPT.
CUSTOMER: MINN STATE HWY DEPT.

CONTRACT 3142 FABCOD 244 SHEET 1521C

CLINTON FAB DIVISION 15
OPEN HOLES 1/2" UN RIVETS & BOLTS 3/4" PAINT YES SEE SH. GN1
DRAWN BY: [Signature] DATE: 8/25/66 CHECKED BY: [Signature] DATE: 10/6/66
REVISIONS: [List of revisions]



Div.	Item	QTY	SHAPE	LENGTH	PC	REMARKS	TEL. NO.	TOTAL WEIGHT	HAND SPEC.
15/17	1	2	STRINGERS	(31x47'-5)					
1	2	1	DO	(31x47'-5)					
1	3	1	DO	(31x47'-5)					
1	4	2	DO	(31x47'-5)					
1	5	2	DO	(31x47'-5)					
6	7	27	WF 94	47' 4 1/2	X1		5702	59	3306
7	7	BARS 7x4	2 1/2	X2	MIE		5707	59	3306
8	7	BARS 7x4	2 1/2	X3	MIE		5707	59	3306
9	7	BARS 7x4	2 1/2	X4			5706	59	3306
10	7	BARS 7x4	2 1/2	X5			5706	59	3306
11	7	R	10x4	1 9	X6		5709	59	3306
12	14	BARS 9x4	0 1 1/2	X7	MIE		5708	59	3306
13	101	STUDS 3/8"	0 4	X8	TYPE 53F		5708	59	546
14	3	BRONZE R			P3A	FOR A			
15	7	WLD.	24	0					NG
16	7	WLD.	1	9					
17	4	RIV. 3/8"							
18	4	BRONZE R			P3B	FOR B			
19									
1	20	1522C	ONE	STRINGER	(31x47'-5)				
1	21	1522D	ONE	DO	(31x47'-5)				
1	22	1522D	ONE	DO	(31x47'-5)				
23	3	27	WF 94	47' 4 1/2	X9		5702	59	13369
24	4	BARS	7x4	X3	FOR C		5707	59	100
25	3	BARS	7x4	X4	FOR D		5706	59	57
26	3	R	10x4	X6			5709	59	102
27	6	BARS	7x4	X7			5708	59	44
28	459	STUDS 3/8"	0 4	X8	TYPE 53F		5708	59	239
29	1	BARS 7x4	2 1/2	X10	FOR C		5706	59	19
30	1	BARS 7x4	2 1/2	X11	FOR C		5706	59	19
31	3	BRONZE R			P3A				
32	3	WLD.	27	6					NG
33	3	WLD.	2	4					
34	6	RIV. 3/8"							
35	2	BAR 7x4	2 1/2	X12	MIE FOR D		5707	59	50
36	2	BAR 7x4	2 1/2	X13	FOR D		5706	59	38
37	2	BAR 7x4	2 1/2	X14	FOR D		5706	59	38
38									
39									
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NOTE A:
BOTT. FLG TO BE 90° TO WEB
& SUPP FOR DISTANCE INDICATED

SHOP NOTE:
FOR GEN NOTES SEE
GNI
FOR MAT'L SPECS
SEE BILL OF MAT'L

MINN PROJ. No. I-16 35W-3(58) 112
STATE PROJ. No. 27B3-9340B (TH 35W-399)

HAMMOND FAB

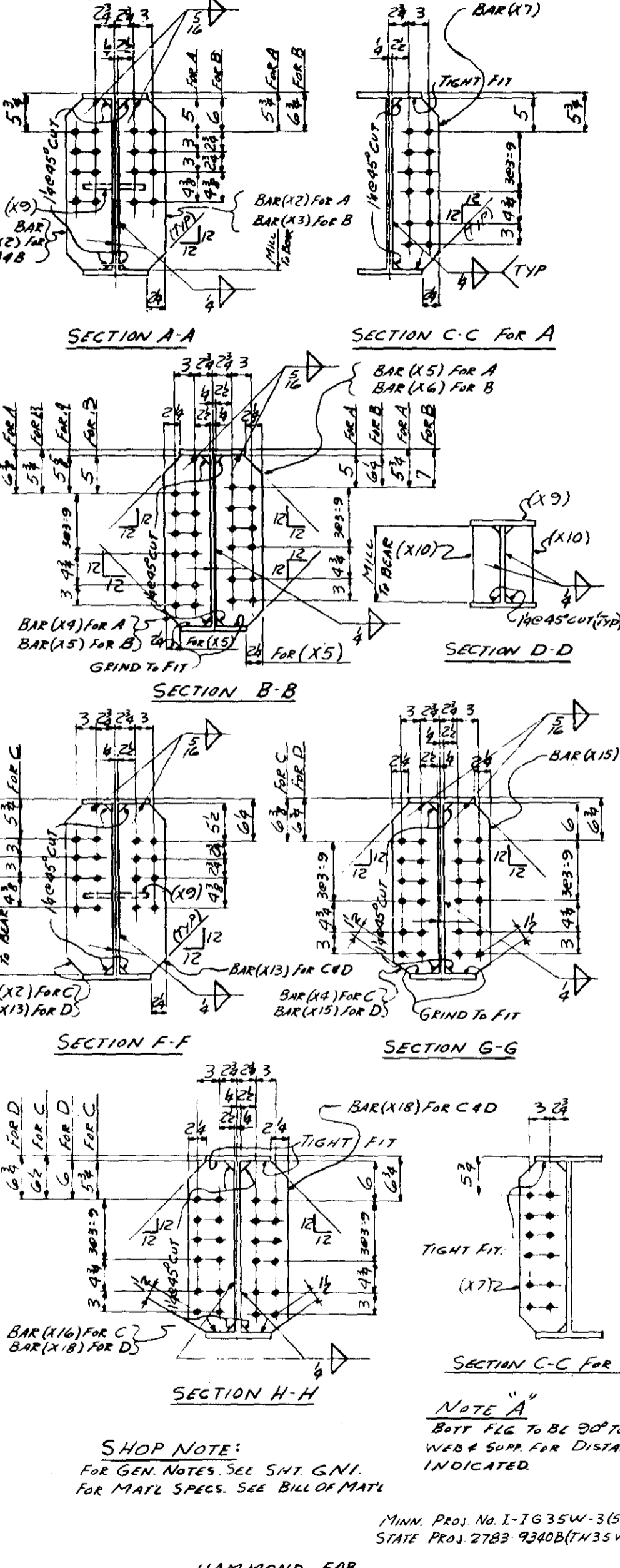
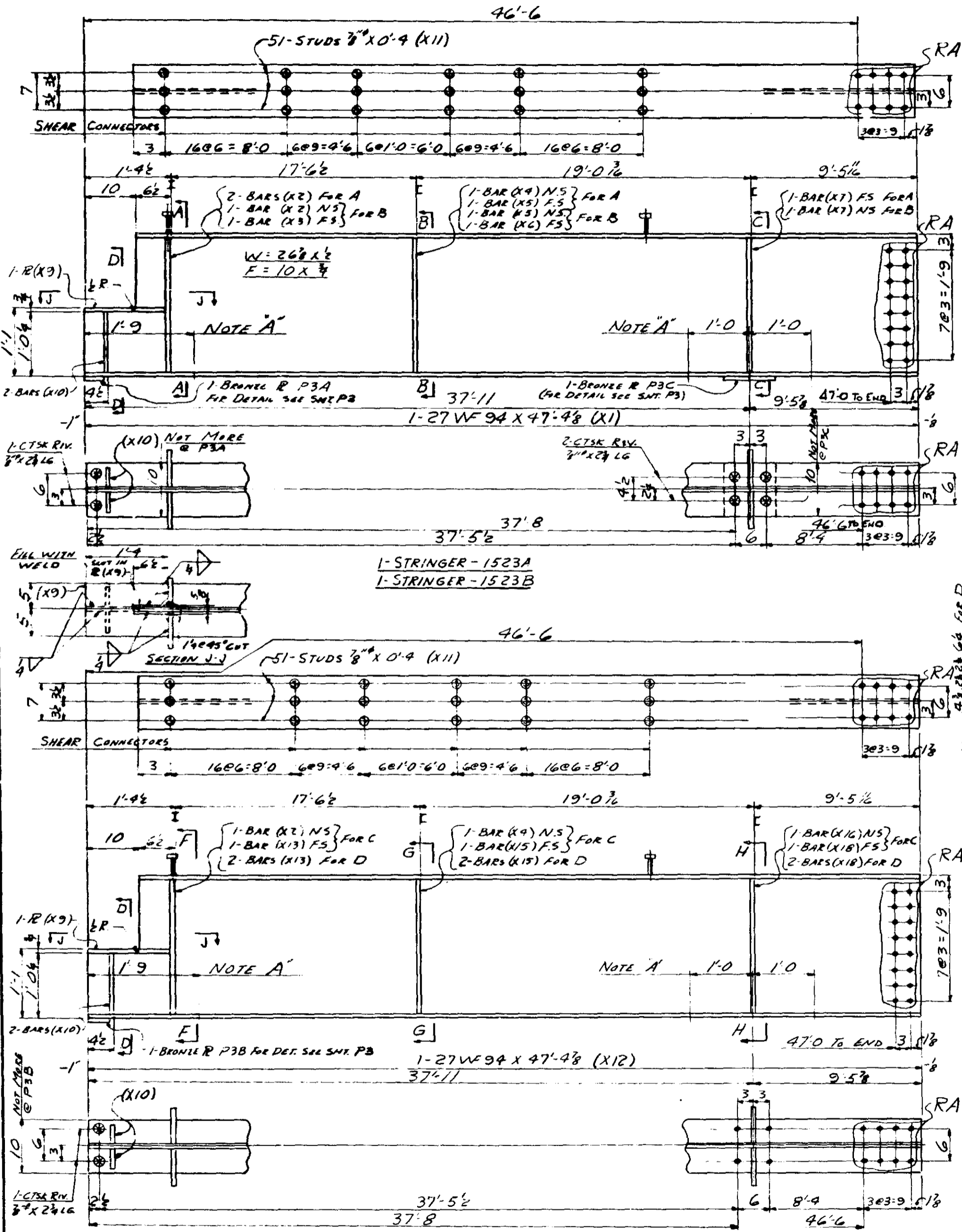
OPEN HOLES 1 1/2" RIVETS 7/8" PAINT YES-SEE SHI GNI
DRAWN BY D.J. DATE 3-3-66 CHECKED BY L.O. DATE 3-13-66

REF DWG	EG#E7	REVISIONS	△	△	△	△
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ALLIED STRUCTURAL STEEL COMPANY
ENGINEERS FABRICATORS Erectors
1425 15TH STREET, WARREN, INDIANA 46390

DETAILS OF: STRINGERS - P.P. U8-U9 & U20-U19
STRUCTURE: BRIDGE No. 9390
LOCATION: MINNEAPOLIS, MINNESOTA
OWNER: MINNESOTA STATE HWY. DEPT.
CUSTOMER: MINNESOTA STATE HWY. DEPT.

CONTRACT 3142 FABCOD 274 SHEET 1522



DIV	NO	SHIP NO.	NO. REQ.	SHAPE	LENGTH	PC. NR.	REMARKS	ITEM NO.	TOTAL WEIGHT
1517	1								
1517	2								
1517	3								
1517	4								
1517	5								
1517	6	1523A	ONE	STRINGER	(3)X(47'-5)				
1517	7	1523B	ONE	Do	(3)X(47'-5)				
1517	8	2	27WF94	47'-4 3/8	X1		5902 59	8912	3306
1517	9	3	BARS 7X2	2 1/2	X2	MIN. 1/2" DIA	5907 59	75	3306
1517	10	1	BARS 7X2	2 1/2	X3	MIN. 1/2" DIA	5907 59	25	3306
1517	11	1	BARS 7X2	2 1/2	X4	FOR A	5906 59	19	3306
1517	12	2	BARS 7X2	2 1/2	X5		5906 59	38	3306
1517	13	1	BARS 7X2	2 1/2	X6	FOR B	5906 59	19	3306
1517	14	2	BARS 7X2	2 1/2	X7		5906 59	38	3306
1517	15								
1517	16	2	R 10X4	1 9	X9		5909 59	68	3306
1517	17	4	BARS 4X2	0 11/2	X10	MZE.	5907 59	29	3306
1517	18	306	STUDS 7/8"	0 4	X11	TYPE 53F	MIN. 1/2" DIA	59	156
1517	19	2	BRONZE R		P3A				
1517	20	2	4 WLD.	2 7 6					NC
1517	21	2	1/2 WLD.	2 4					
1517	22	12	R.V. 3/8"						
1517	23	2	BRONZE R		P3C				
1517	24								
1517	25								
1517	26								
1517	27								
1517	28								
1517	29								
1517	30	1523C	2	STRINGERS	(3)X(47'-5)				
1517	31	1523D	2	Do	(3)X(47'-5)				
1517	32	4	27WF94	47'-4 3/8	X12		5902 59	17825	3306
1517	33	2	BARS		X2	FOR C	5907 59	50	3306
1517	34	2	BARS		X9	FOR C	5906 59	38	3306
1517	35	4	R		X9		5909 59	136	3306
1517	36	8	BARS		X10		5908 59	59	3306
1517	37	612	STUDS 7/8"	0 4	X11	TYPE 53F	MIN. 1/2" DIA	59	312
1517	38	6	BARS 7X2	2 1/2	X13	MIN. 1/2" DIA	5907 59	151	3306
1517	39								
1517	40	6	BARS 7X2	2 1/2	X15	2" DIA	5906 59	113	3306
1517	41	2	BARS 7X2	2 1/2	X16	FOR C	5906 59	38	3306
1517	42								
1517	43	6	BARS 7X2	2 1/2	X18	2" DIA	5906 59	113	3306
1517	44	4	BRONZE R		P3B				
1517	45	4	4 WLD.	32 0					NC
1517	46	4	1/2 WLD.	2 4					
1517	47	8	R.V. 3/8"						
1517	48								
1517	49								
1517	50								
1517	51								
1517	52								
1517	53								
1517	54								
1517	55								
1517	56								
1517	57								
1517	58								
1517	59								
1517	60								
1517	61								
1517	62								
1517	63								
1517	64								
1517	65								
1517	66								
1517	67								
1517	68								
1517	69								
1517	70								
1517	71								

2- STRINGERS-1523C (AS SHOWN)
2- STRINGERS-1523D (OPP. HAND)

SHOP NOTE:
FOR GEN. NOTES. SEE SMT. G.N.I.
FOR MATL. SPECS. SEE BILL OF MATL.

NOTE "A"
BUTT FLG. TO BE 90° TO
WEB & SUPP. FOR DISTANCE
INDICATED

MINN. PROJ. NO. I-1635W-3(58) 112
STATE PROJ. 2783 9340B(1135W-394)

HAMMOND FAB

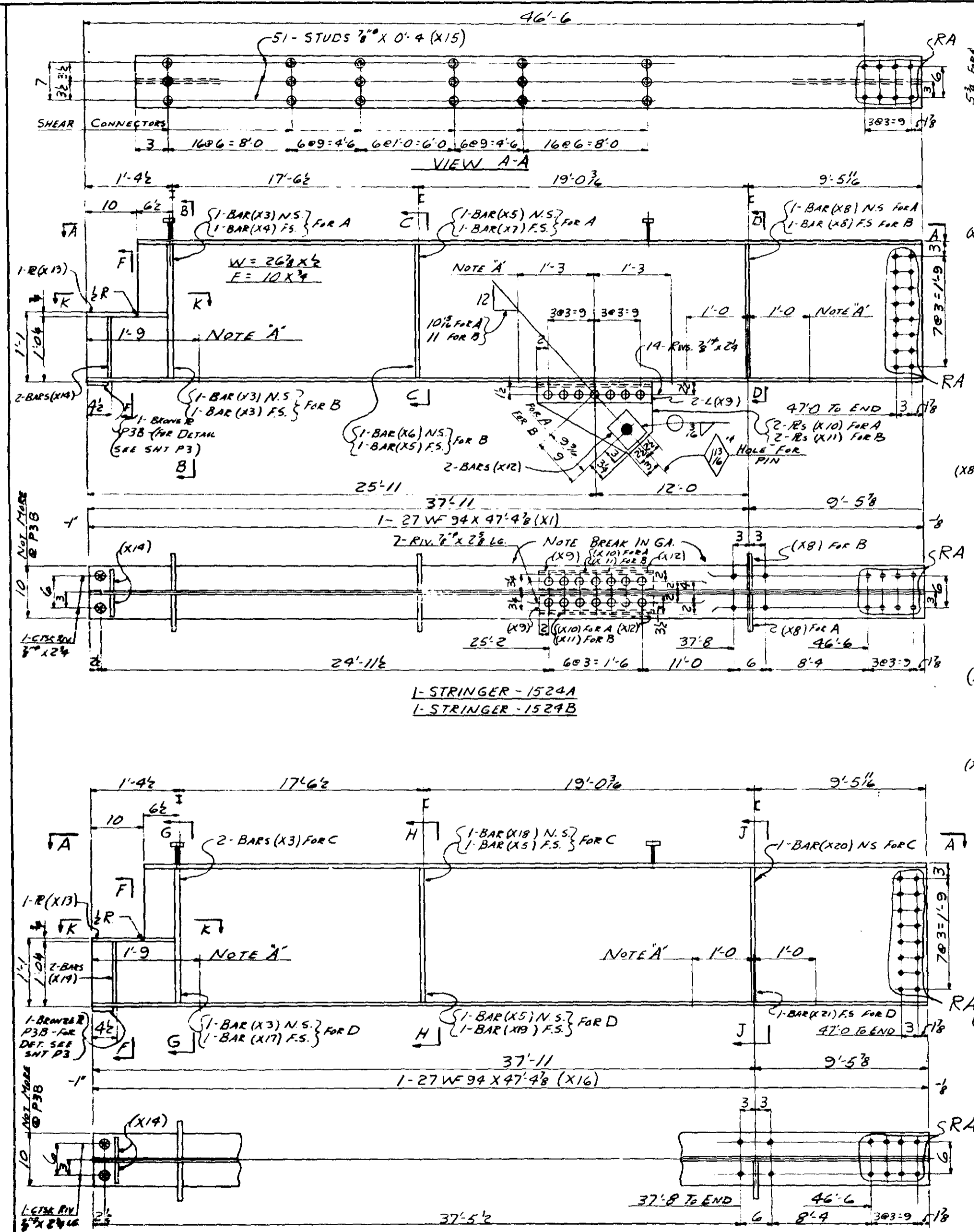
OPEN HOLES 1 1/2" RIVETS 7/8" PAINT YES, SEE SMT. G.N.I.
DRAWN BY D.J. DATE 3-7-66 CHECKED BY L.O. DATE 3-28-66

REF. DWG. EG 687	REVISIONS	△	△	△	△
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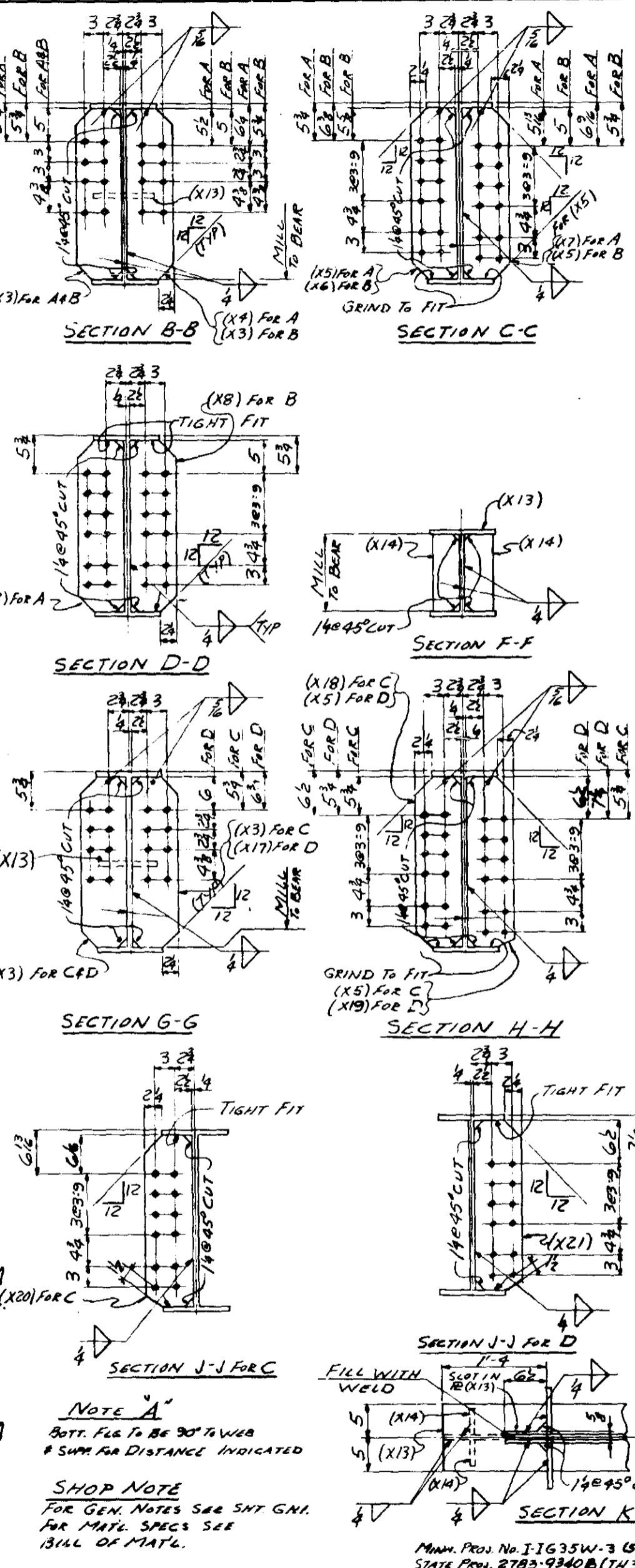
ALLIED STRUCTURAL STEEL COMPANY
FABRICATORS & ERECTORS
1425 16TH STREET, HARBOR, INDIANAPOLIS, INDIANA 46202

DETAILS OF: STRINGERS - RR UB-U9 & U20-U19
STRUCTURE: BRIDGE No 9340
LOCATION: MINNEAPOLIS, MINNESOTA
OWNER: MINNESOTA STATE HWY. DEPT.
CUSTOMER: MINNESOTA STATE HWY. DEPT.

CONTRACT 3142 FABCOD 274 SHEET 1523



1-STRINGER-1524C
 1-STRINGER-1524D
 1-STRINGER-1524E



NOTE A
 BOT. FLG TO BE 90° TO WEB
 # SUPP. FR DISTANCE INDICATED

SHOP NOTE
 FOR GEN. NOTES SEE SMT GNI.
 FOR MATL. SPECS SEE
 ISILL OF MATL.

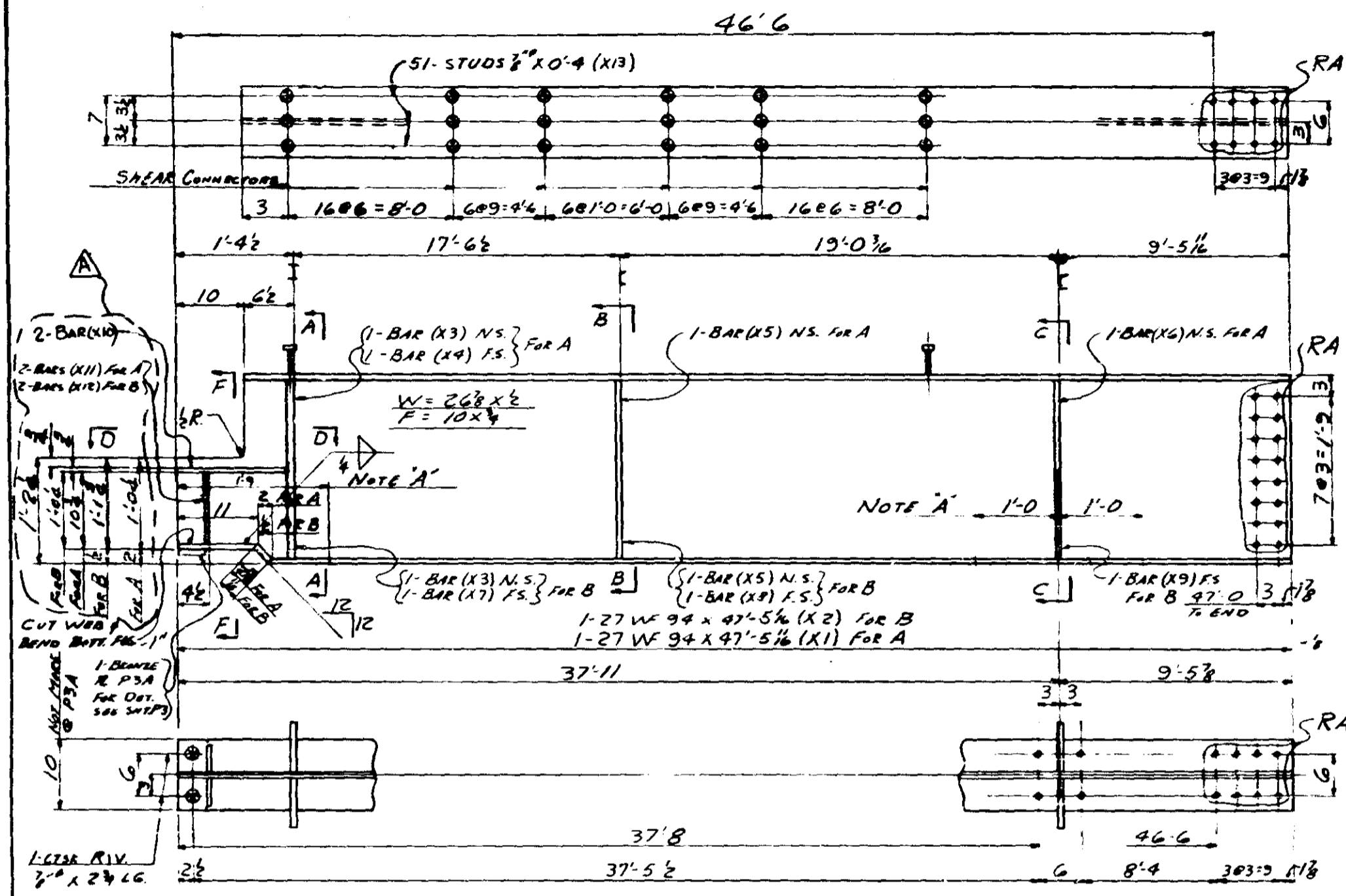
DIV	ITEM	QTY	SHAPE	LENGTH	PC	REMARKS	ITEM NO.	TOTAL WEIGHT	FINISH
15	17	1							
1	1524A	ONE	STRINGER	(31X47'-5)					
1	1524B	ONE	Do	(31X47'-5)					
8	2	27WF94	47'4 1/2 X11			5201 59	8912	3306	
10	3	BAR 7X2	2 1/2 X3	MIL. FOR A		5201 59	75	3306	
11	1	BAR 7X2	2 1/2 X4	MIL. FOR A		5201 59	25	3306	
12	2	BAR 7X2	2 1/2 X5	1/2 FOR A		5206 59	38	3306	
13	1	BAR 7X2	2 1/2 X6	FOR B		5206 59	19	3306	
14	1	BAR 7X2	2 1/2 X7	FOR A		5206 59	19	3306	
15	2	BAR 7X2	2 1/2 X8			5206 59	38	3306	
16	4	L 4X3 1/2	10 X9			7206 59	67	3306	
17	2	R 13X 1/2	10 X10	FOR A		7205 59	61	3306	
18	2	R 12X 1/2	10 X11	FOR B		7205 59	58	3306	
19	4	BAR 5X 1/2	0 5/8 X12			7207 59	10	3306	
20	2	R 10X 1/2	1 4 X13			7209 59	68	3306	
21	4	BAR 4 1/2 X 1/2	0 1/2 X14	M.T.E.		5208 59	29	3306	
22	306	STUDS 7/8"	0 4 X15	TYPE 53F		MINN. 59	156		
23	2	BRONZE R		P38					
24	2	WLD	3 7						
25	2	WLD	27 6						
26	2	WLD	2 4						
27	60	RIV. 3/8"							
28									
29									
30									
31									
32									
33									
34									
1	35	1524C	ONE	STRINGER	(31X47'-5)				
1	36	1524D	ONE	Do	(31X47'-5)				
1	37	1524E	ONE	Do	(31X47'-5)				
38	3	27WF94	47'4 1/2 X16			5202 59	13319	3306	
40	4	BAR	X3	MIL.		5206 59	100	3306	
41	3	BAR	X5			5206 59	57	3306	
42									
43	3	R	X13			5206 59	102	3306	
44	6	BAR	X14			5206 59	49	3306	
45	850	STUDS 7/8"	0 4 X15			MINN. 59	234		
46	2	BAR 7X2	2 1/2 X17	MIL. FOR D		5207 59	50	3306	
47	1	BAR 7X2	2 1/2 X18	FOR C		5206 59	19	3306	
48	2	BAR 7X2	2 1/2 X19	FOR D		5206 59	38	3306	
49	1	BAR 7X2	2 1/2 X20	FOR C		5206 59	19	3306	
50	3	WLD	27 6						
51	3	WLD	2 4						
52	60	RIV. 3/8"							
53	3	BRONZE R		P38					
54	2	BAR 7X2	2 1/2 X21	FOR D		5206 59	38	3306	
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
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66									
67									
68									
69									
70									
71									

ALLIED STRUCTURAL STEEL COMPANY
 1400 NORTH STATE STREET, MINNEAPOLIS, MINNESOTA 55405

DETAILS OF: **STRINGERS - PP U8-U9 & U20-U19**
 STRUCTURE: **BRIDGE No. 9340**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA STATE HWY. DEPT.**
 CUSTOMER: **MINNESOTA STATE HWY. DEPT.**

CONTRACT **3142** FABCOD **274** SHEET **1524**

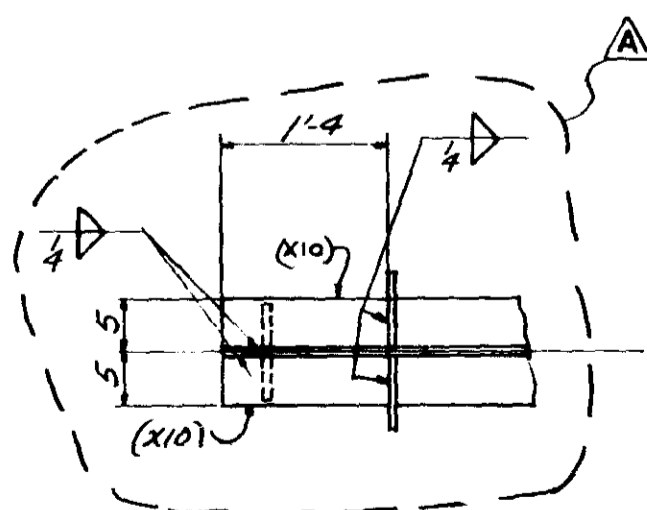
REF. DWG	REVISIONS	DATE	CHECKED BY	DATE
EG#E7				



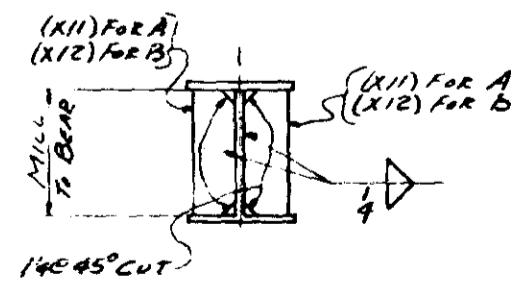
ONE - STRINGER - 1525A

ONE - STRINGER - 1525B

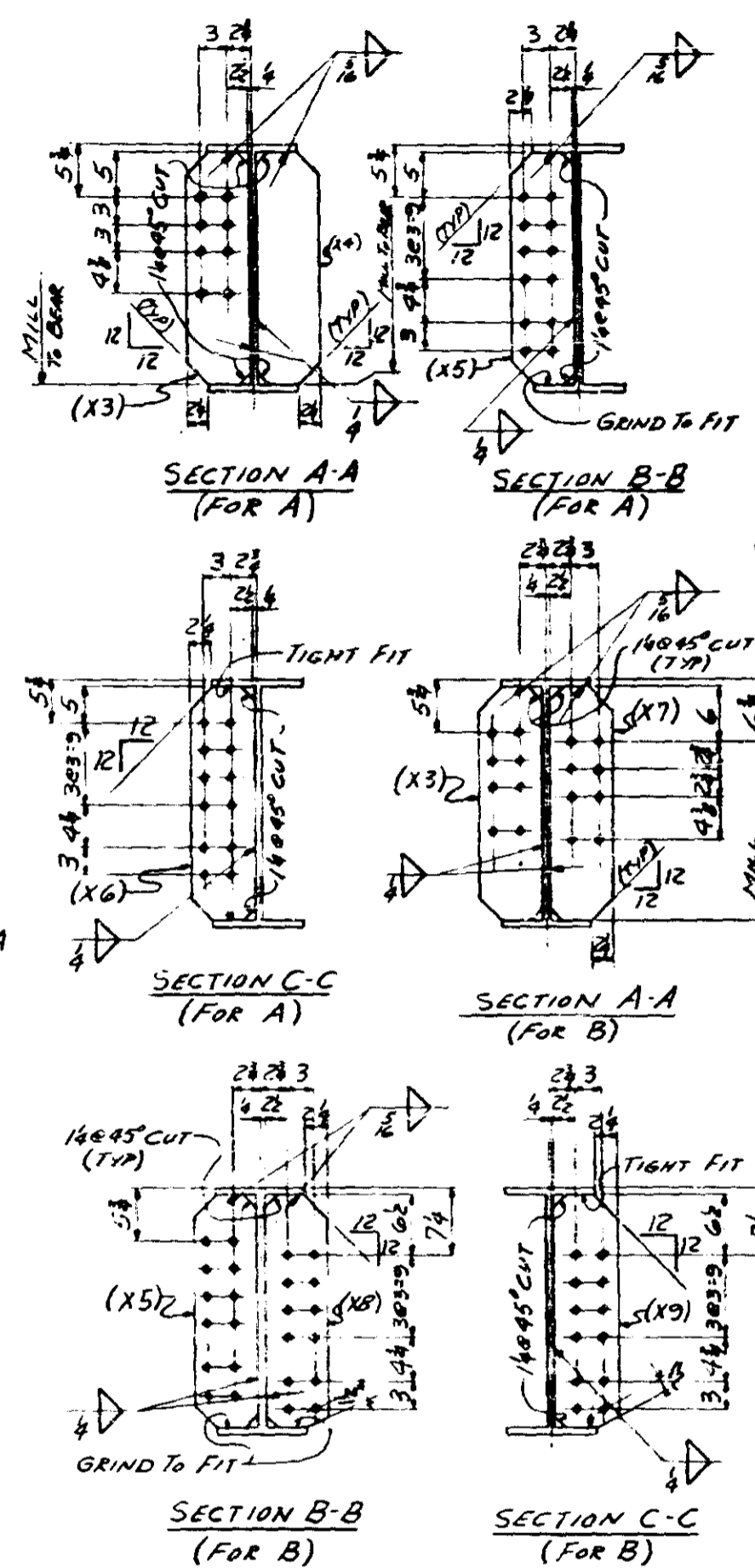
NOTE A'
 BOTTL FLG TO BE 90° TO WEB
 & SUPR FOR DISTANCE INDICATED



SECTION D-D



SECTION F-F



SHOP NOTE:
 FOR GEN. NOTES SEE SMT. GNI
 FOR MATL SPECS SEE BILL OF MATL.

NO.	QTY	SHAPE	LENGTH	REMARKS	ITEM NO.	TOTAL WEIGHT
1						
2						
3						
4						
5	1525A One	STRINGER	31 X 47'-5"			
6						
7	1525B One	Do	31 X 47'-5"			
8						
9	1	27 WF 94	47'-5 1/2" X1	FOR A	59	4463
10	1	27 WF 94	47'-5 1/2" X2	FOR B	59	4458
11	2	BARS 7/8"	2 1/8" X3	FILE	59	50
12	1	BARS 7/8"	2 1/8" X4	FOR A FILE	59	25
13	2	BARS 7/8"	2 1/8" X5	FOR A	59	38
14	1	BARS 7/8"	2 1/8" X6	FOR A	59	19
15	1	BARS 7/8"	2 1/8" X7	FOR B FILE	59	25
16	1	BARS 7/8"	2 1/8" X8	FOR B	59	19
17	1	BARS 7/8"	2 1/8" X9	FOR B	59	19
18	4	BAR 4 X 3/8"	1 1/4" X10		59	65
19	2	BARS 9/16"	0 11/16" X11	FOR A FILE	59	13
20	2	BARS 9/16"	0 11/16" X12	FOR B FILE	59	15
21	304	STUDS 3/8"	0 1/4" X13	TYPE 53F	59	156
22	1	1/4" WLD	26 0	FOR A		NC
23	1	1/4" WLD	30 0	FOR B		
24	1	1/2" WLD	1 9	FOR A		
25	1	1/2" WLD	2 9	FOR B		
26	4	PL 3/8"				
27	2	BRONZE PL				
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
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58		BID ITEM	59 =	9365		
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71						

MINN PROJ. NO I-1635W-3158) 112
 STATE PROJ. 2783-9340B (TH35W-394)

ALLIED STRUCTURAL STEEL COMPANY
 ENGINEERS, FABRICATORS, ERECTORS
 1115 15TH STREET, MINNEAPOLIS, MINN.

DETAILS OF **STRINGERS - R.P. U8-U9**
 STRUCTURE: **BRIDGE No. 9340**
 LOCATION: **MINNEAPOLIS, MINNESOTA**
 OWNER: **MINNESOTA HWY. DEPT.**
 CUSTOMER: **MINNESOTA HWY. REPT.**

HAMMOND FAB
 OPEN HOLES: 1/8" RIVETS: 3/8" PAINT: YES - SEE SMT. GNI

DIV. 15
 REF. DWG. EG
 DRAWN BY: DJ DATE: 3-10-56 CHECKED BY: L.O. DATE: 3-19-56

REVISIONS: A-2-24-67

CONTRACT: 3142 FABCOG: 274 SHEET: 1525