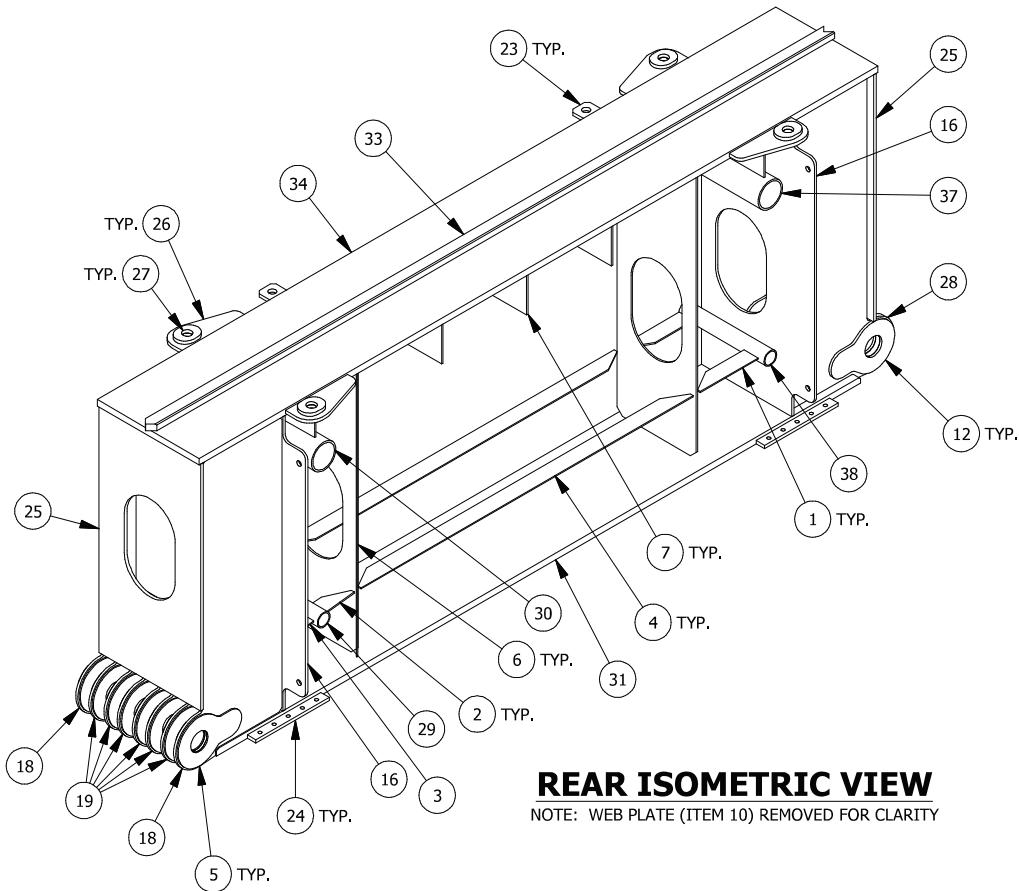


FRONT ISOMETRIC VIEW



REAR ISOMETRIC VIEW

NOTE: WEB PLATE (ITEM 10) REMOVED FOR CLARITY

20'-0" BOX GIRDER

APPROX. FABRICATED WEIGHT: 25299 LBS.±  
APPROX. FINISHED WEIGHT: 25236 LBS.±  
(2) REQUIRED AS SHOWN

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BILL OF MATERIALS						
ITEM	QTY	DESCRIPTION	UNIT WEIGHT	QTY WEIGHT	MATERIAL	REMARKS
1	2	PL3/8" x 5" x 20 1/2"	9.43	18.85	ASTM A514	Fy=100ksi, Fu=110ksi
2	2	PL3/8" x 5" x 11 9/16"	4.54	9.08	ASTM A514	Fy=100ksi, Fu=110ksi
3	2	PL3/8" x 5" x 11 7/16"	4.47	8.93	ASTM A514	Fy=100ksi, Fu=110ksi
4	2	PL3/8" x 5" x 117 1/2"	59.53	119.06	ASTM A514	Fy=100ksi, Fu=110ksi
5	16	PL3/8" x 15" x 22 1/2"	22.77	364.37	ASTM A514	Fy=100ksi, Fu=110ksi
6	2	PL1/2" x 28" x 90"	287.72	575.44	ASTM A514	Fy=100ksi, Fu=110ksi
7	5	PL1/2" x 16" x 28"	61.19	305.95	ASTM A514	Fy=100ksi, Fu=110ksi
8	4	PL1/2" x 4" x 5"	2.84	11.34	ASTM A514	Fy=100ksi, Fu=110ksi
9	1	PL5/8" x 11" x 237"	462.09	462.09	ASTM A514	Fy=100ksi, Fu=110ksi
10	1	PL1/2" x 90" x 179 3/8" (APPROX. FLAT)	2267.69	2267.69	ASTM A514	Fy=100ksi, Fu=110ksi
11	1	PL1/2" x 90" x 179 3/8" (APPROX. FLAT)	2267.69	2267.69	ASTM A514	Fy=100ksi, Fu=110ksi
12	8	PL3/4" x 15" x 22 1/2"	45.55	364.37	ASTM A514	Fy=100ksi, Fu=110ksi
13	4	PL1/2" x 4" x 17"	9.57	38.29	ASTM A514	Fy=100ksi, Fu=110ksi
14	1	PL3/4" x 6" x 28 1/2"	36.16	36.16	ASTM A514	Fy=100ksi, Fu=110ksi
15	2	PL1/2" x 4" x 57 3/4"	32.61	65.23	ASTM A514	Fy=100ksi, Fu=110ksi
16	2	PL3/4" x 44" x 90"	713.23	1426.46	ASTM A514	Fy=100ksi, Fu=110ksi
17	1	PL3/4" x 4" x 28 1/2"	24.25	24.25	ASTM A514	Fy=100ksi, Fu=110ksi
18	2	PL3/4" x 37 5/8" x 92 1/2"	562.57	1125.14	ASTM A514	Fy=100ksi, Fu=110ksi
19	6	PL3/4" x 34" x 37 5/8"	130.40	782.39	ASTM A514	Fy=100ksi, Fu=110ksi
20	1	PL3/4" x 6" x 33 7/8"	43.02	43.02	ASTM A514	Fy=100ksi, Fu=110ksi
21	2	PL1/2" x 4" x 57 3/4"	32.61	65.23	ASTM A514	Fy=100ksi, Fu=110ksi
22	1	PL3/4" x 4" x 33 7/8"	28.82	28.82	ASTM A514	Fy=100ksi, Fu=110ksi
23	2	PL1" x 5 1/4" x 6"	7.52	15.04	ASTM A514	Fy=100ksi, Fu=110ksi
24	4	PL1" x 3" x 26"	20.86	83.45	ASTM A514	Fy=100ksi, Fu=110ksi
25	2	PL1" x 36" x 75 1/2"	637.40	1274.80	ASTM A514	Fy=100ksi, Fu=110ksi
26	4	PL1" x 8 1/2" x 22"	38.89	155.57	ASTM A514	Fy=100ksi, Fu=110ksi
27	8	PL1" x 2 7/8" x 7 1/2"	8.73	69.84	ASTM A514	Fy=100ksi, Fu=110ksi
28	2	PL1 1/2" x 37 5/8" x 92 1/2"	1125.14	2250.28	ASTM A514	Fy=100ksi, Fu=110ksi
29	1	PIPE Ø4" NOM., SCH. 80 (Ø4.5" x 0.337" WALL) x 34" LONG	42.50	42.50	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
30	1	PIPE Ø8" NOM., SCH. 80 (Ø8.625" x 0.5" WALL) x 34" LONG	123.06	123.06	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
31	1	PL2" x 36" x 228"	4651.18	4651.18	ASTM A514	Fy=100ksi, Fu=110ksi
32	2	PL1 1/2" x 34" x 37 5/8"	260.80	521.59	ASTM A514	Fy=100ksi, Fu=110ksi
33	1	PL2" x 4" x 241 3/4"	537.71	537.71	ASTM A514	Fy=100ksi, Fu=110ksi
34	1	PL2" x 36" x 240"	4900.59	4900.59	ASTM A514	Fy=100ksi, Fu=110ksi
35	4	PIPE Ø2" NOM., SCH. 40 (Ø2.375" x 0.154" WALL) x 8 1/2" LONG	2.59	10.36	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
36	4	C 3x4.1 x 8 1/2" LONG	3.18	12.73	ASTM A36	Fy=36ksi, Fu=58ksi
37	1	PIPE Ø8" NOM., SCH. 80 (Ø8.625" x 0.5" WALL) x 32" LONG	115.82	115.82	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi
38	1	PIPE Ø4" NOM., SCH. 80 (Ø4.5" x 0.337" WALL) x 32" LONG	40.00	40.00	ASTM A53 GR.B	Fy=35ksi, Fu=60ksi

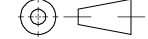
- NOTES:**
- THIS DRAWING REPRESENTS THE ORIGINAL AS FABRICATED STATE OF SME20-1 AND SME20-2 GIRDERS.
  - QUANTITIES SHOWN IN BILL OF MATERIALS ARE FOR ONE WELDMENT. ACTUAL QUANTITIES SHALL BE MULTIPLIED BY THE NUMBER REQUIRED.
  - PLATE EDGE PREP DETAILS FOR WELDING & FIT-UP ARE PRELIMINARY OR HAVE NOT BEEN SHOWN. FABRICATOR IS RESPONSIBLE FOR FINAL EDGE PREP DETAILS AND ASSOCIATED PLATE DIMENSIONS FOR CHOSEN WELD METHOD TO MEET THE INDICATED WELDING AND FIT-UP REQUIREMENTS.
  - 110 ksi MINIMUM TENSILE STRENGTH ELECTRODES U.N.O.

TOLERANCES (U.N.O.)


METRIC  
.X ±.5mm  
.XX ±.10mm  
.XXX ±.01mm  
ENGLISH  
.X ±.05"  
.XX ±.015"  
.XXX ±.005"  
.XXXX ±.0005"  
ANGULAR: ± 0.25°  
LINEAR FRACTIONAL: ± 1/16"  
HOLES FRACTIONAL: +1/32" - 0"

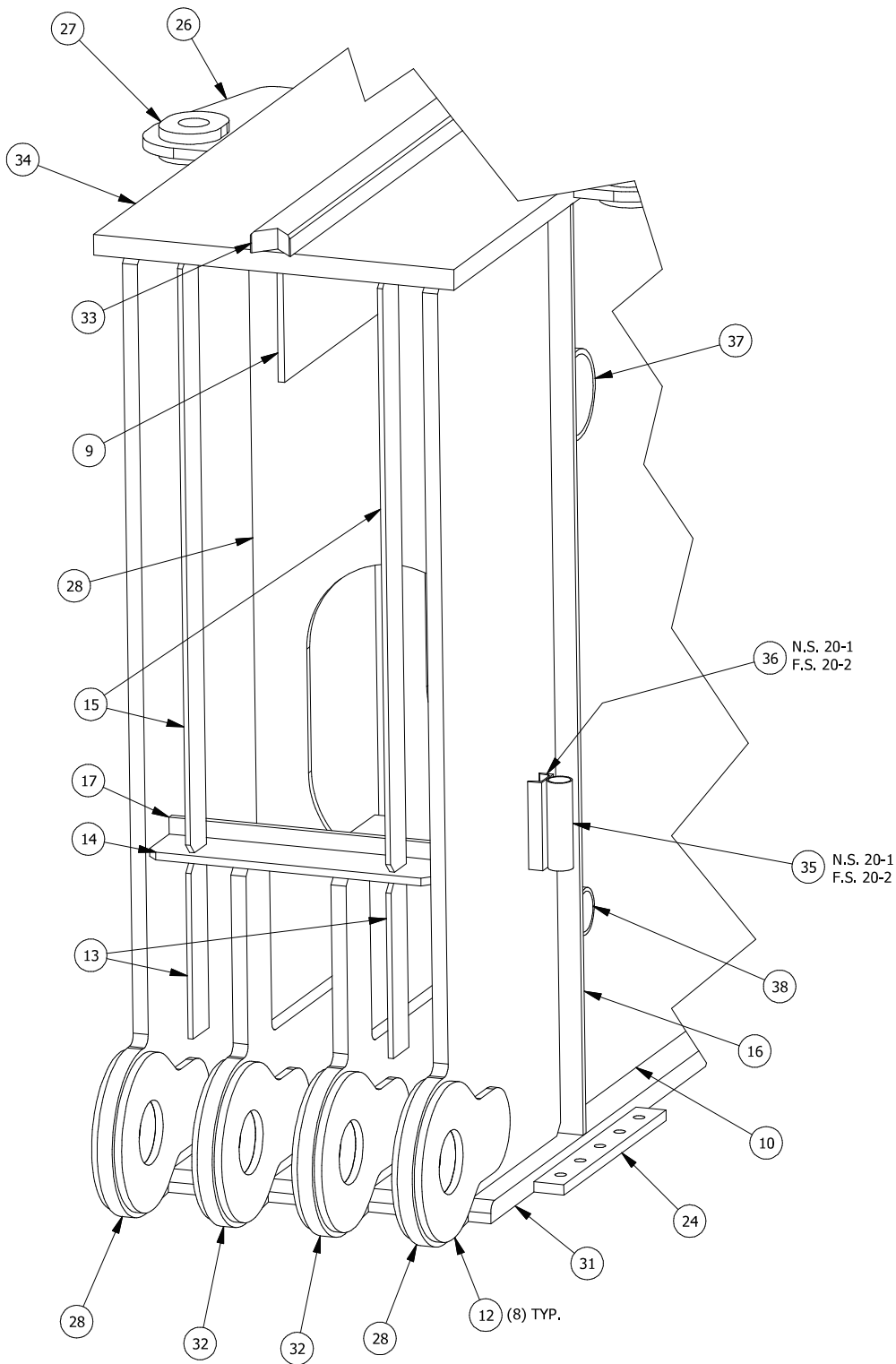
HEAT TREATMENT:  
ROCKWELL C ±4  
BRINELL ±15

THIRD ANGLE PROJECTION

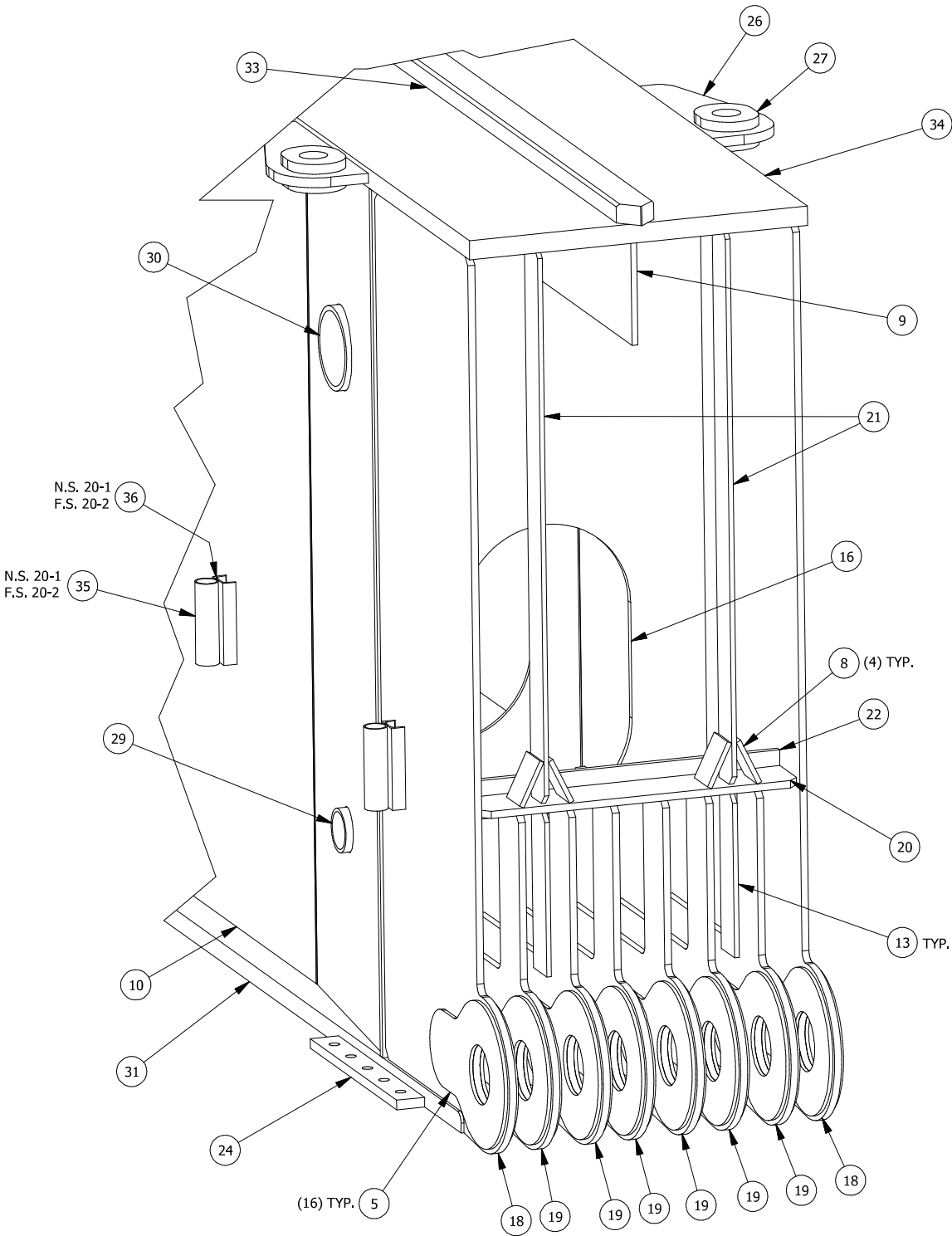


\*DO NOT SCALE OFF OF DRAWING\*

0	ORIGINAL ISSUE		8/9/13	RF	8/19/13	BT	8/19/13	OPH
NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
			DRAWN		CHECKED		APPROVED	
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SME20 RECORD DRAWING FABRICATION ISOMETRIC VIEWS 20'-0" BOX GIRDER								
SCALE: (U.N.O.)		SIZE	PROJECT No.		DWG. No.		SHEET	REV.
NTS		B			SME20		1 of 19	0




**4 LUG END ISOMETRIC DETAIL**  
NOTE: END PLATE (ITEM 25) HAS BEEN REMOVED FOR CLARITY

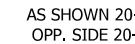


**8 LUG END ISOMETRIC DETAIL**  
NOTE: END PLATE (ITEM 25) HAS BEEN REMOVED FOR CLARITY


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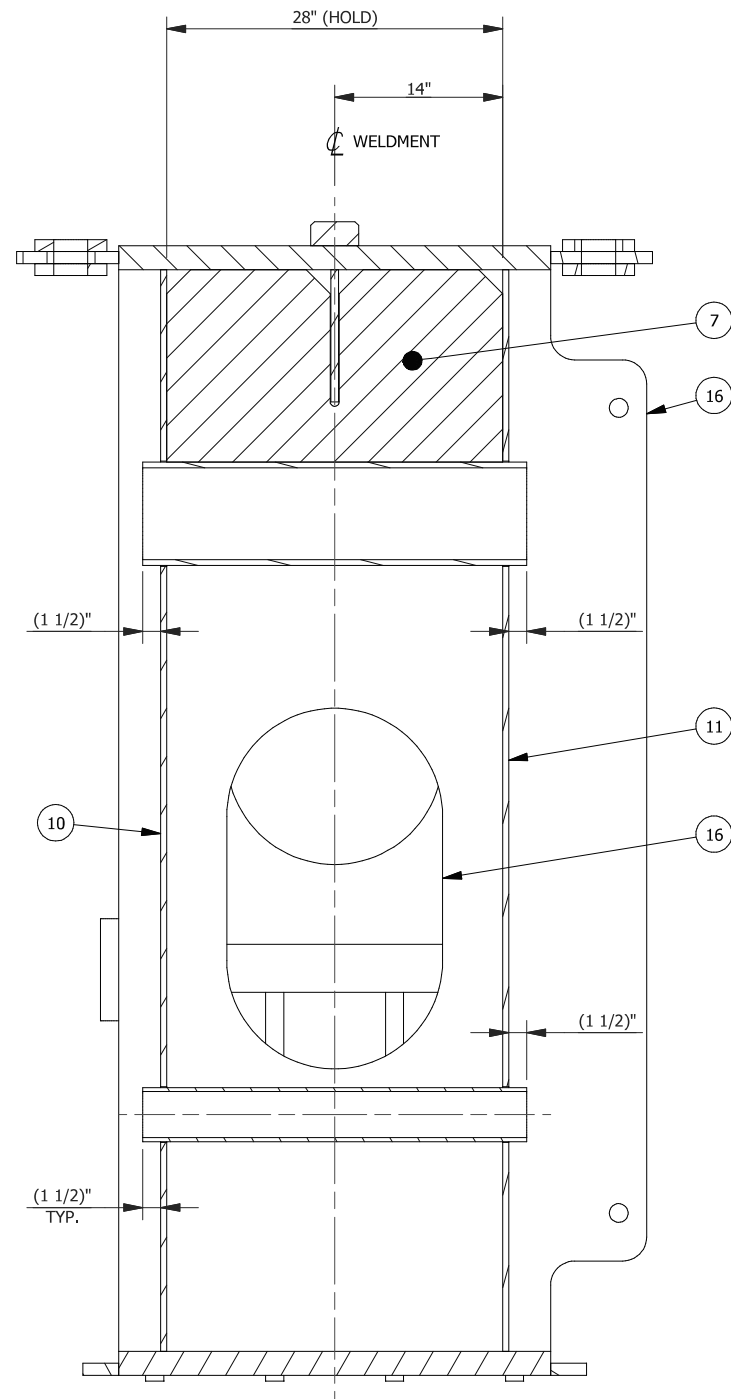
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NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
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SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.			SHEET		REV.
NTS	B		SME20			2 of 19		0

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www.BIGGE.com

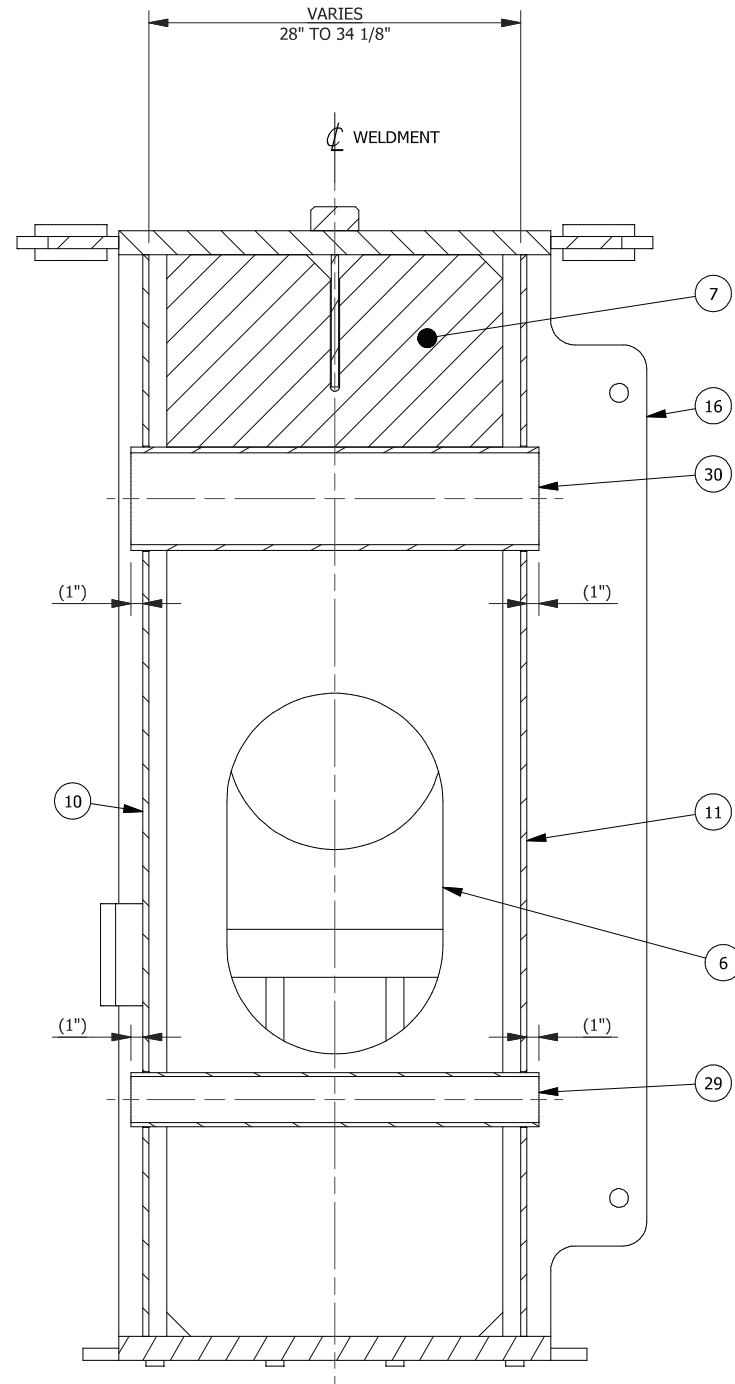


### END ELEVATION VIEW

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<p align="center"><b>SME20 RECORD DRAWING</b>  <b>FABRICATION ORTHO &amp; DETAIL VIEWS</b>  <b>20'-0" BOX GIRDER</b></p>							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
1/4"=1'-0"	B			SME20	3 of 19	0	




**A SECTION**  
3 4 SCALE: 3/4" = 1'-0"

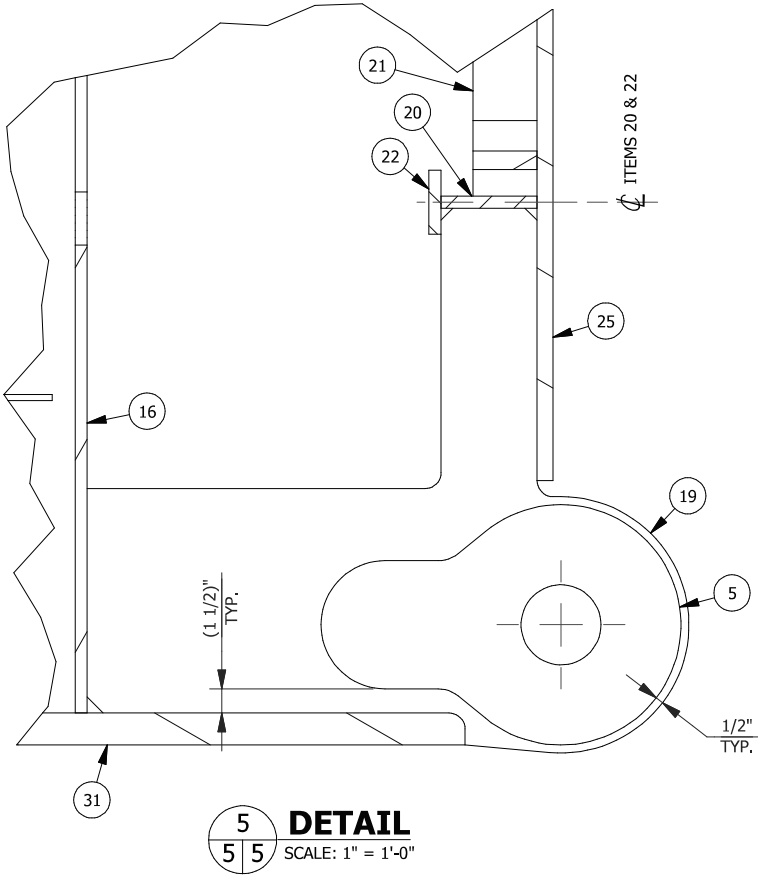
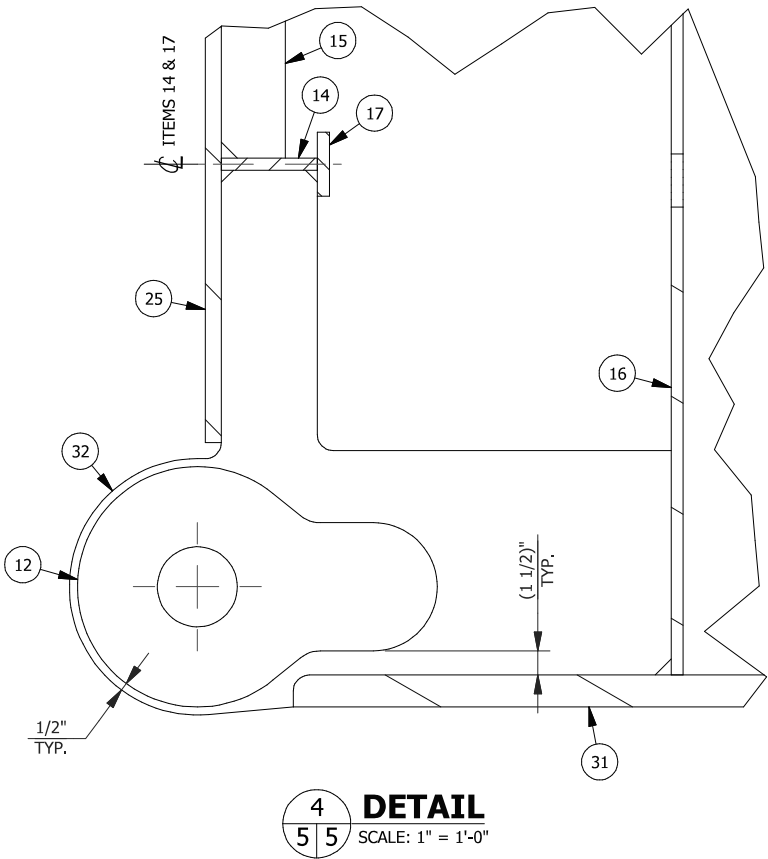
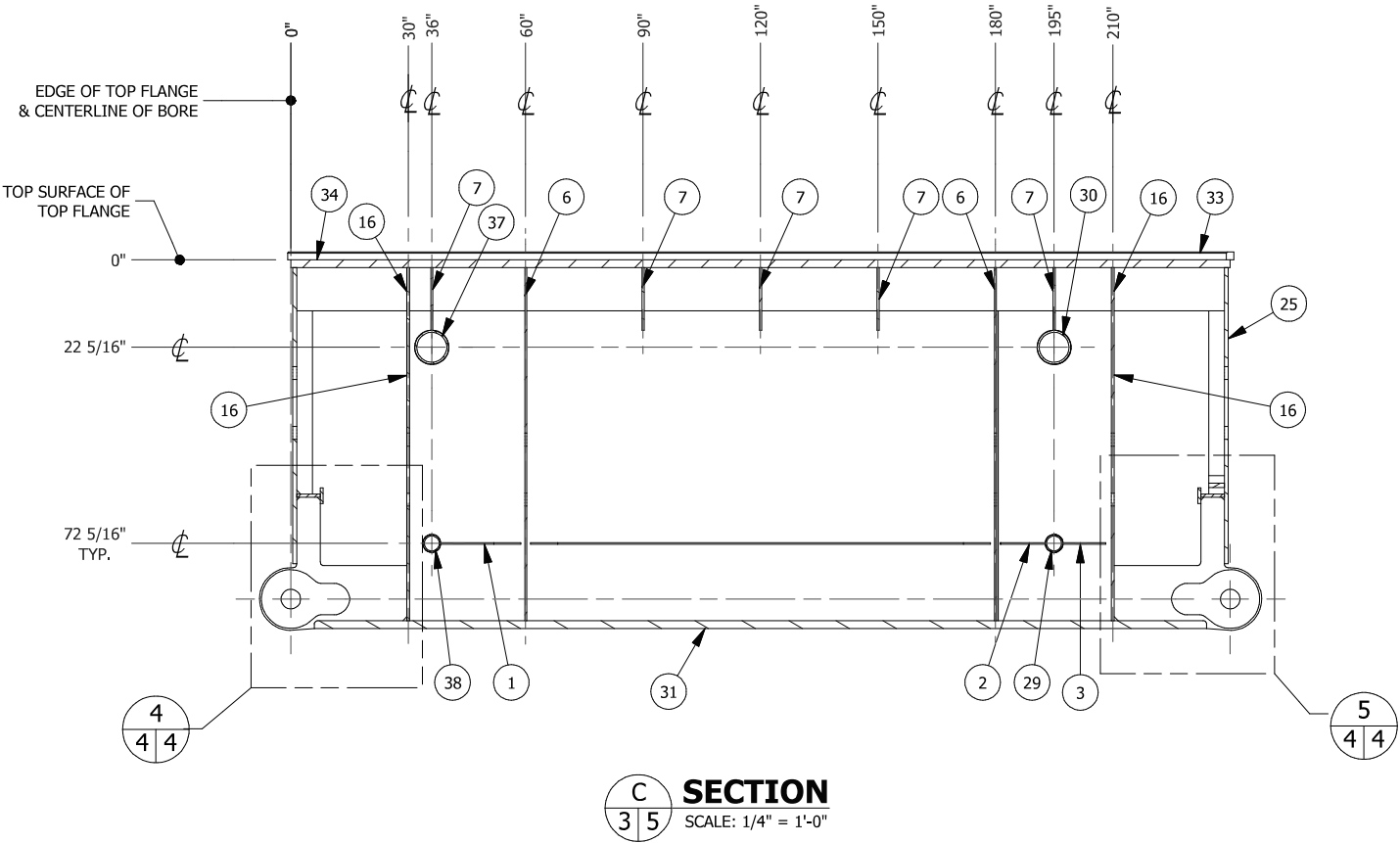



**B SECTION**  
3 4 SCALE: 3/4" = 1'-0"

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SME20 RECORD DRAWING FABRICATION SECTION VIEWS 20'-0" BOX GIRDER										
SCALE: (U.N.O)		SIZE		PROJECT No.		DWG. No.		SHEET		REV.
AS NOTED		B				SME20		4 of 19		0

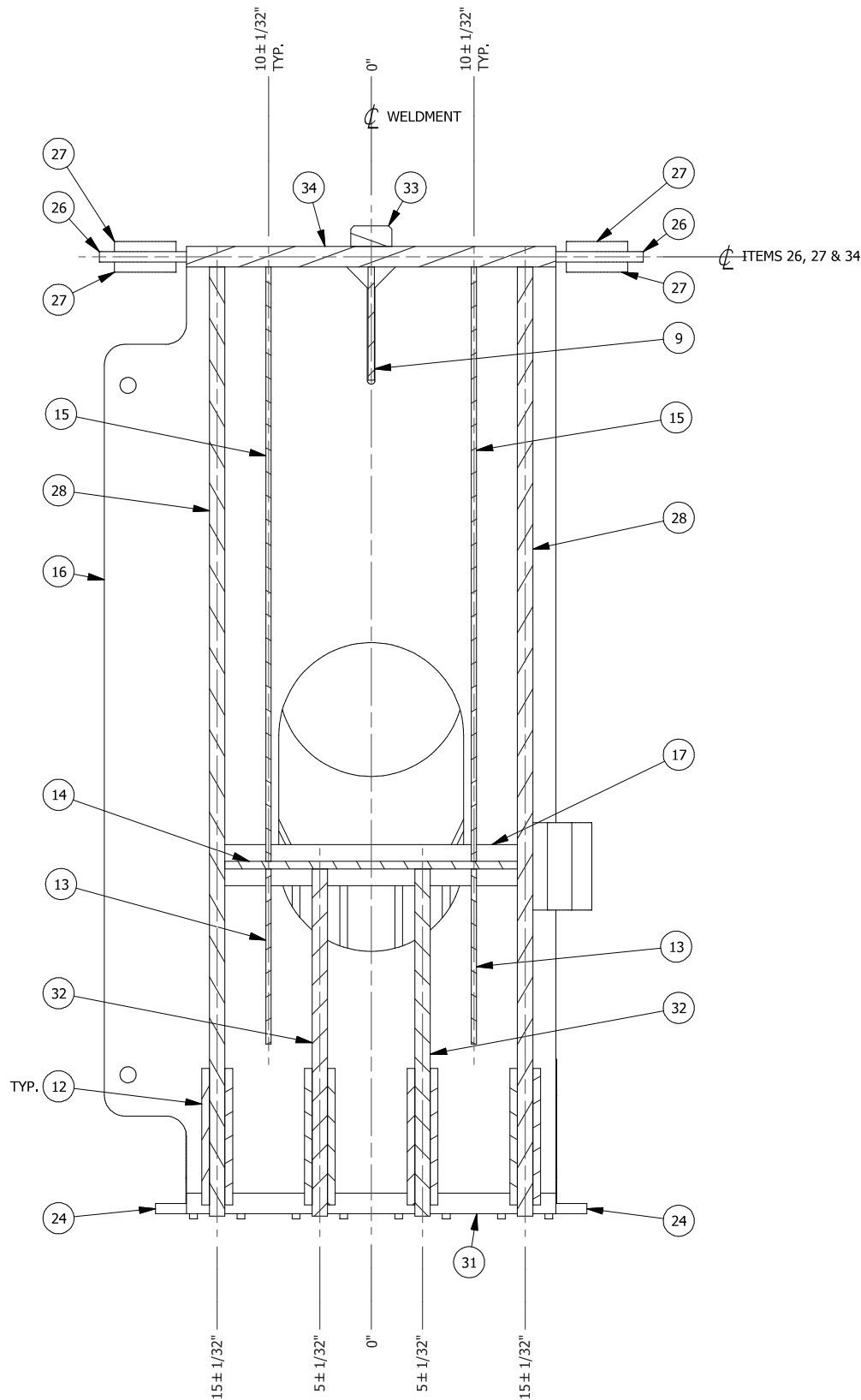
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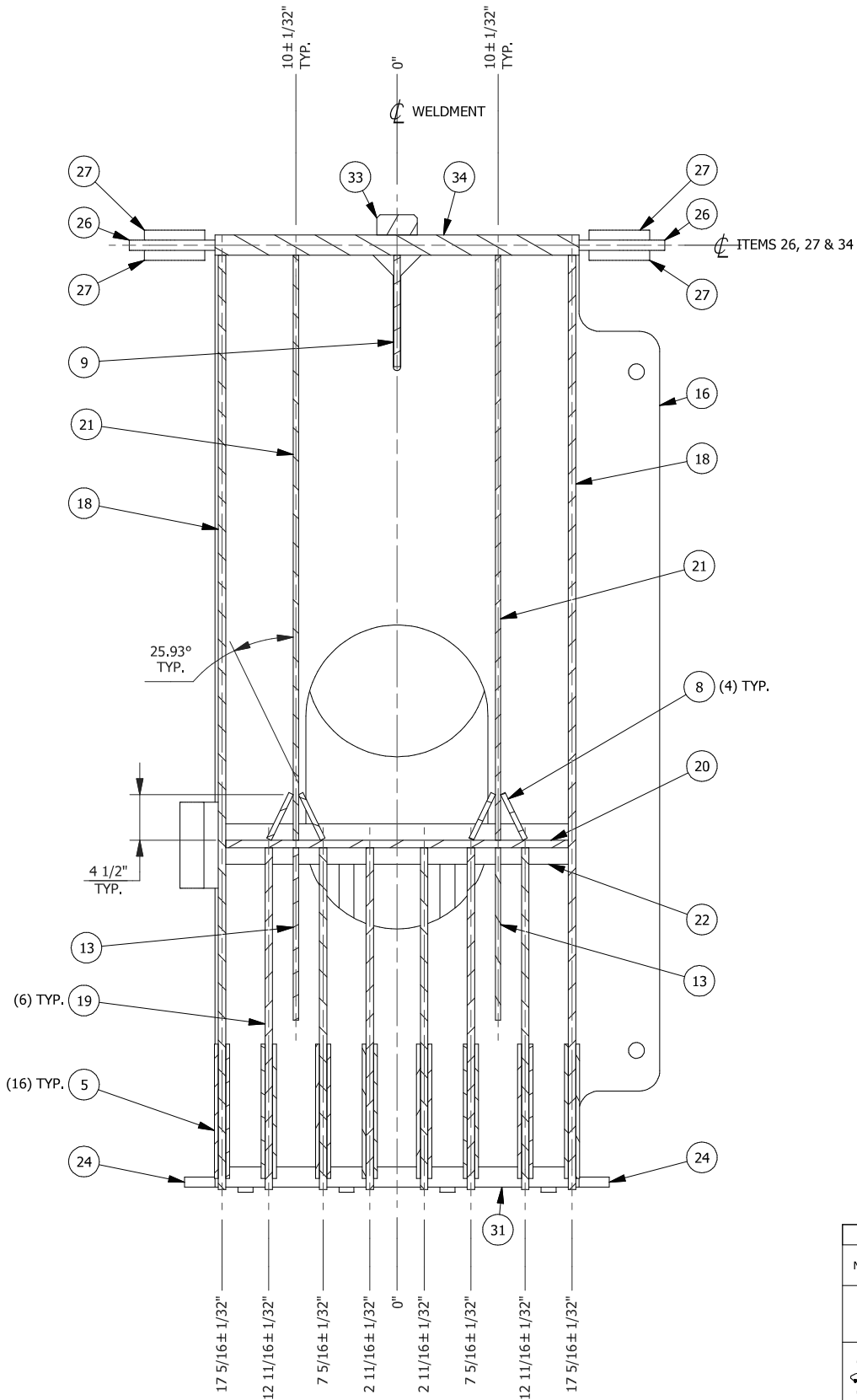
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SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B		SME20	5 of 19	0		




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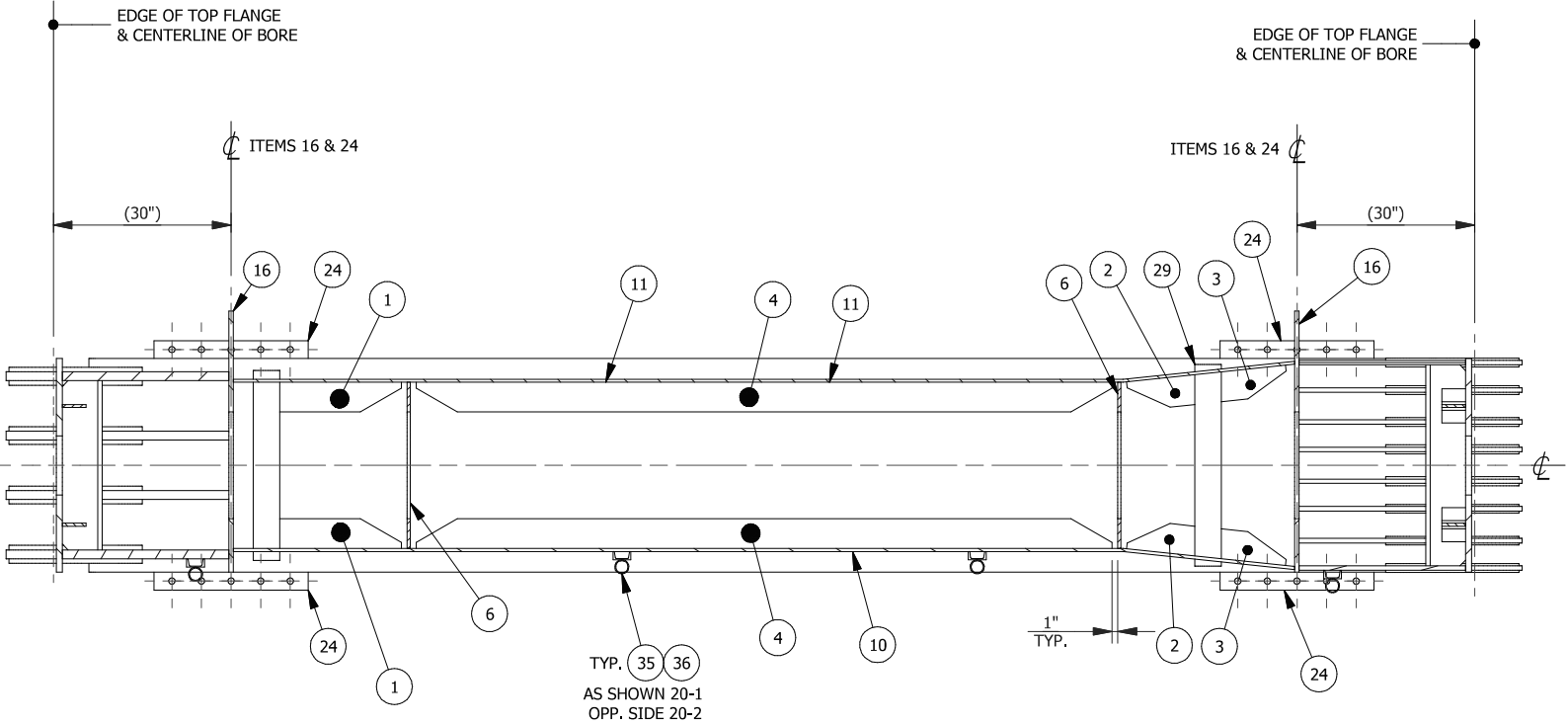
**D SECTION**  
3 6 SCALE: 3/4" = 1'-0"




**E SECTION**  
3 6 SCALE: 3/4" = 1'-0"

0	ORIGINAL ISSUE		8/9/13	RF	8/19/13	BT	8/19/13	OPH
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SME20 RECORD DRAWING FABRICATION SECTION VIEWS 20'-0" BOX GIRDER								
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME20			SHEET 6 of 19		REV. 0

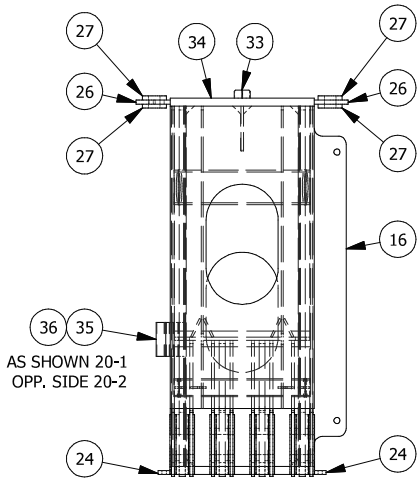
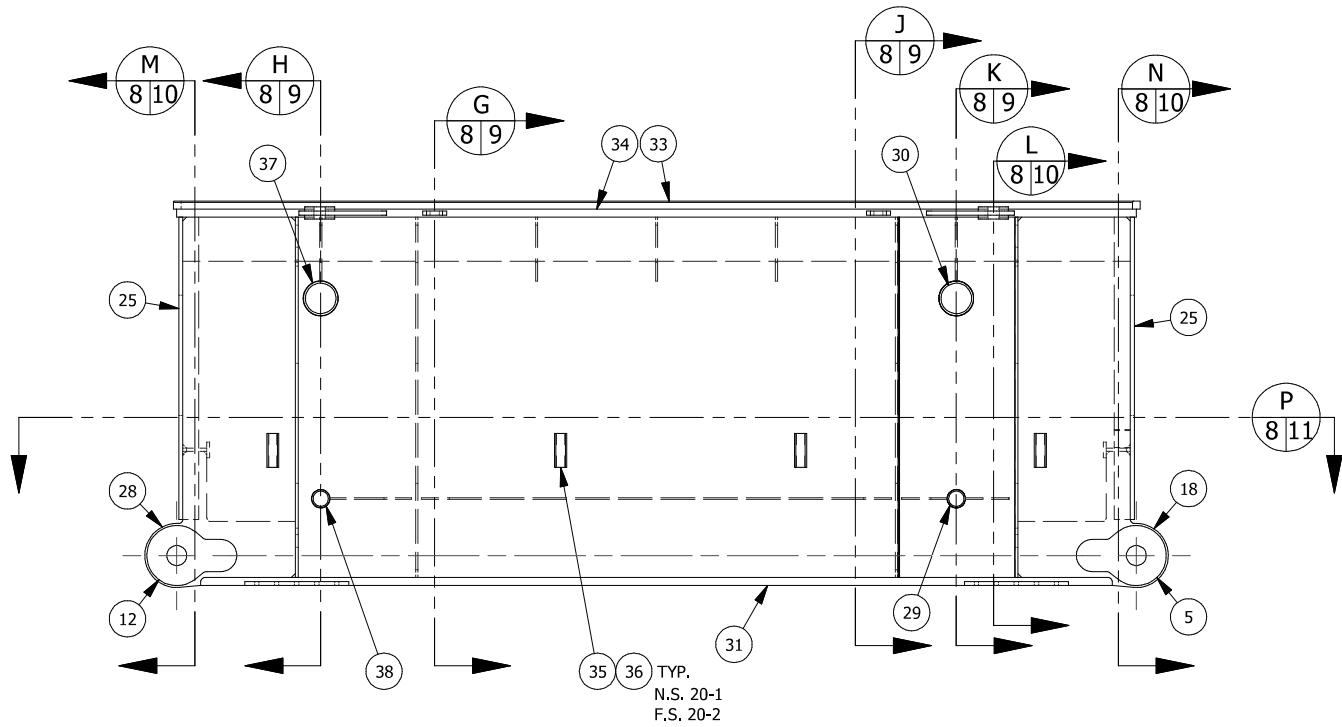
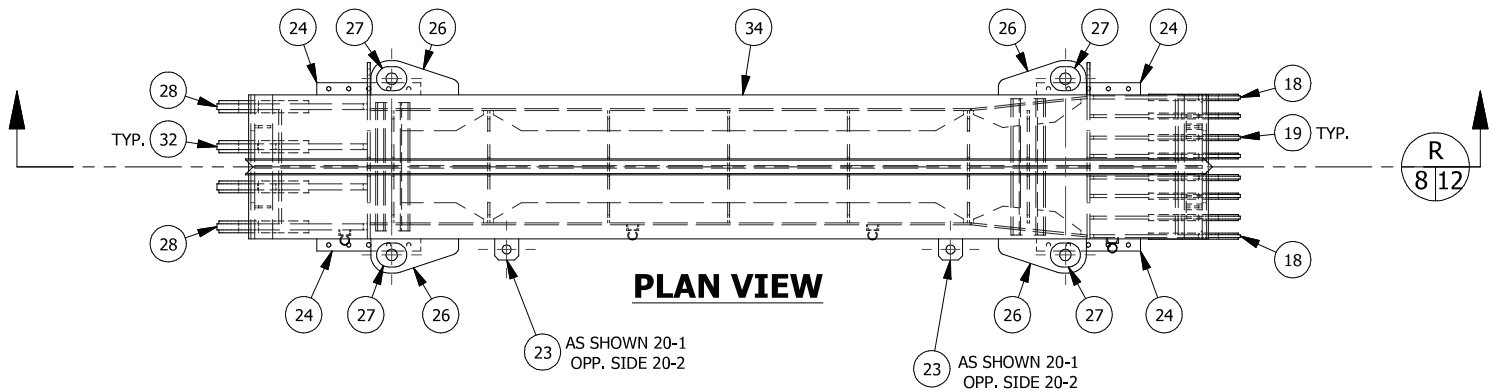
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**F**  
**SECTION**  
3 7  
SCALE: 3/8" = 1'-0"

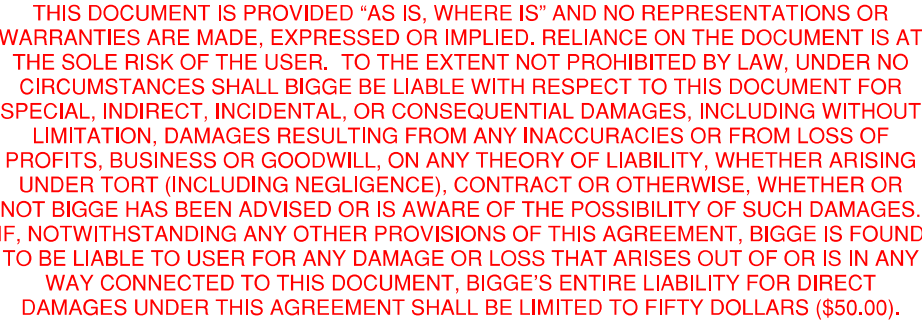
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NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
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<b>POWER CONSTRUCTORS</b>								
SME20 RECORD DRAWING								
FABRICATION SECTION VIEW								
20'-0" BOX GIRDER								
SCALE: (U.N.O)		SIZE	PROJECT No.		DWG. No.		SHEET	REV.
AS NOTED		B			SME20		7 of 19	0

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			Established 1974					
POWER CONSTRUCTORS								
SME20 RECORD DRAWING WELDING ORTHO VIEWS 20'-0" BOX GIRDER								
SCALE: (U.N.O) 1/4"=1'-0"		SIZE B	PROJECT No.		DWG. No. SME20		SHEET 8 of 19	REV. 0



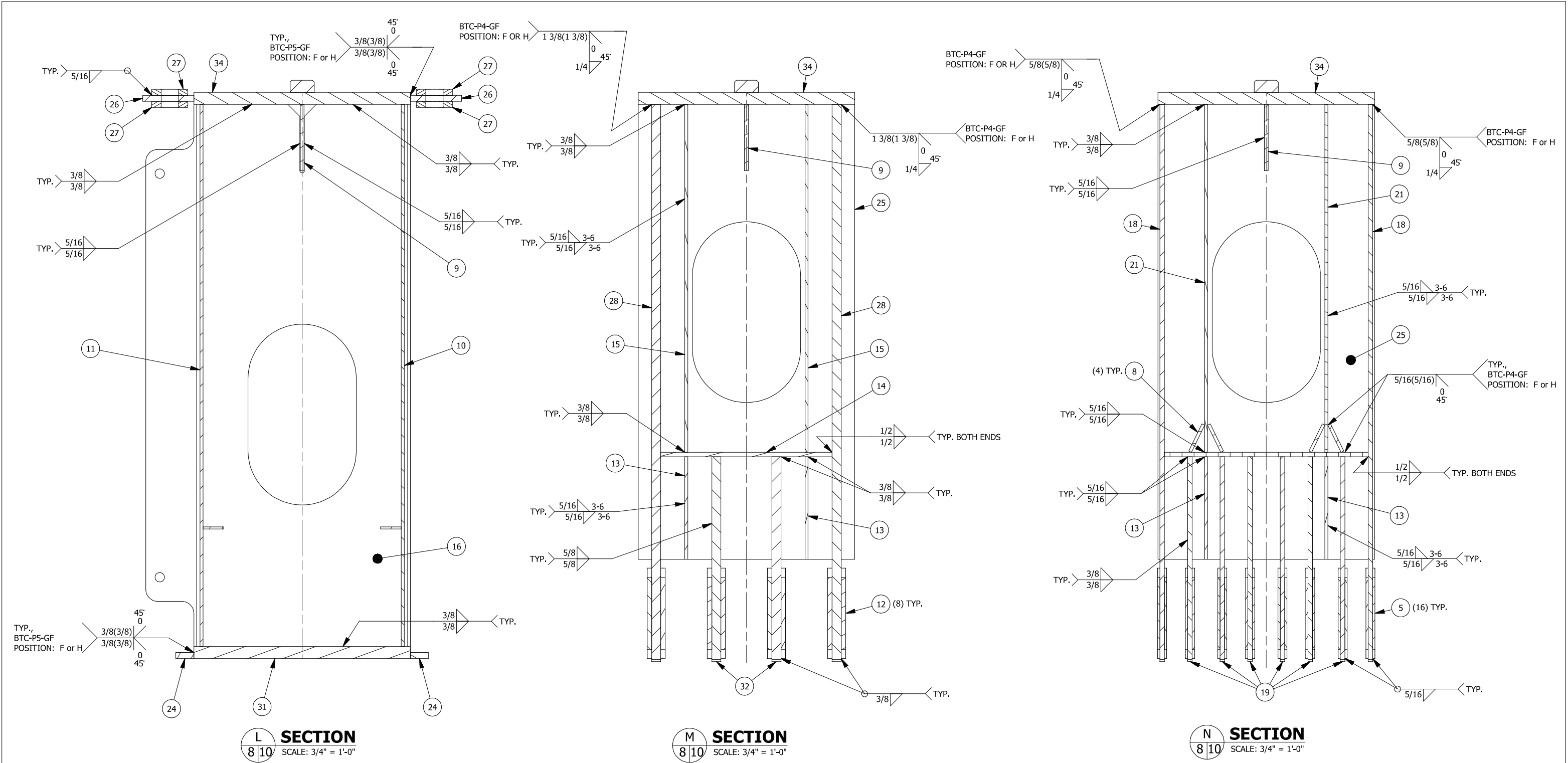



**BIGGE**


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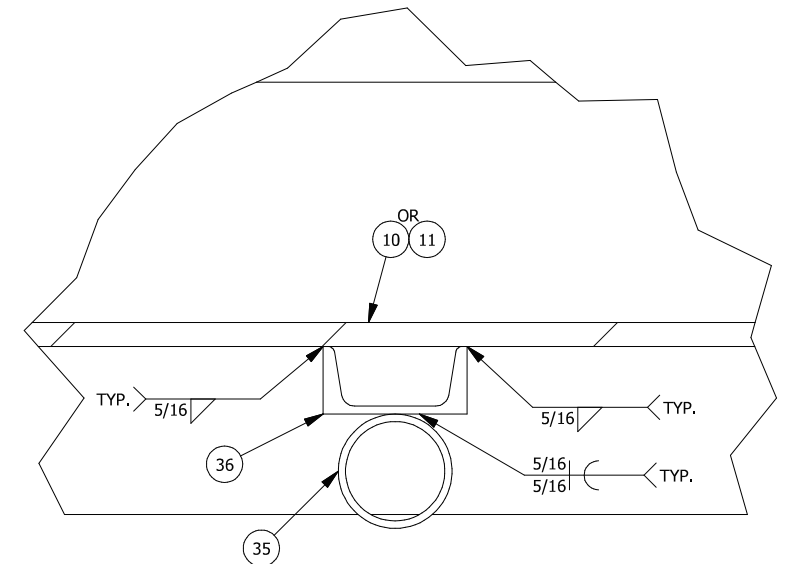
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 www.BIGGE.com

Established 1974  
**POWER CONSTRUCTORS**



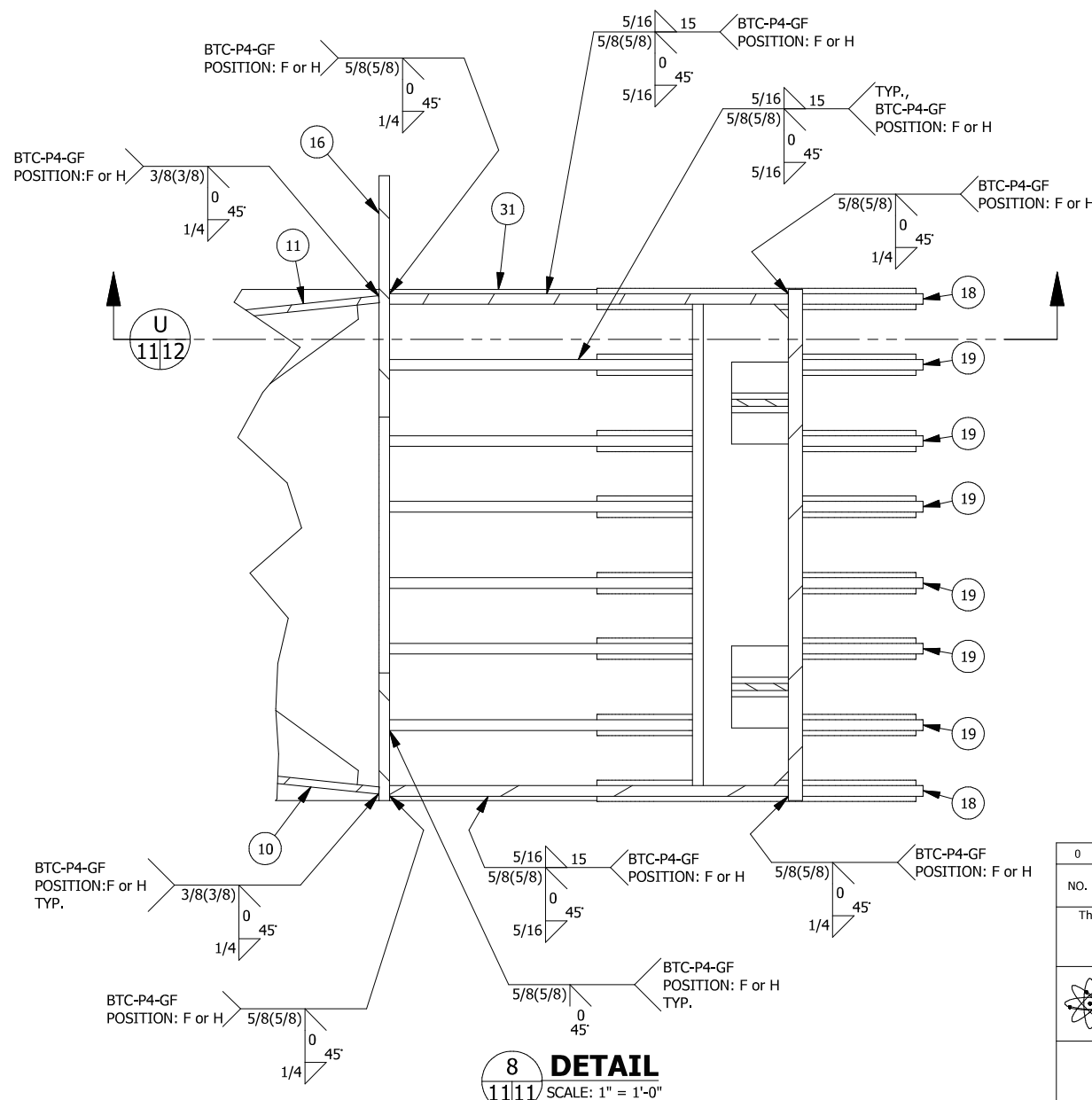
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NO.	REVISIONS		DATE	BY	DATE	BY	DATE	BY
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			Established 1974					
POWER CONSTRUCTORS								
SME20 RECORD DRAWING WELDING SECTION VIEWS 20'-0" BOX GIRDER								
SCALE: (U.N.O) AS NOTED		SIZE B	PROJECT No.		DWG. No. SME20		SHEET 10 of 19	REV. 0




**DETAIL**  
SCALE: 3" = 1'-0"

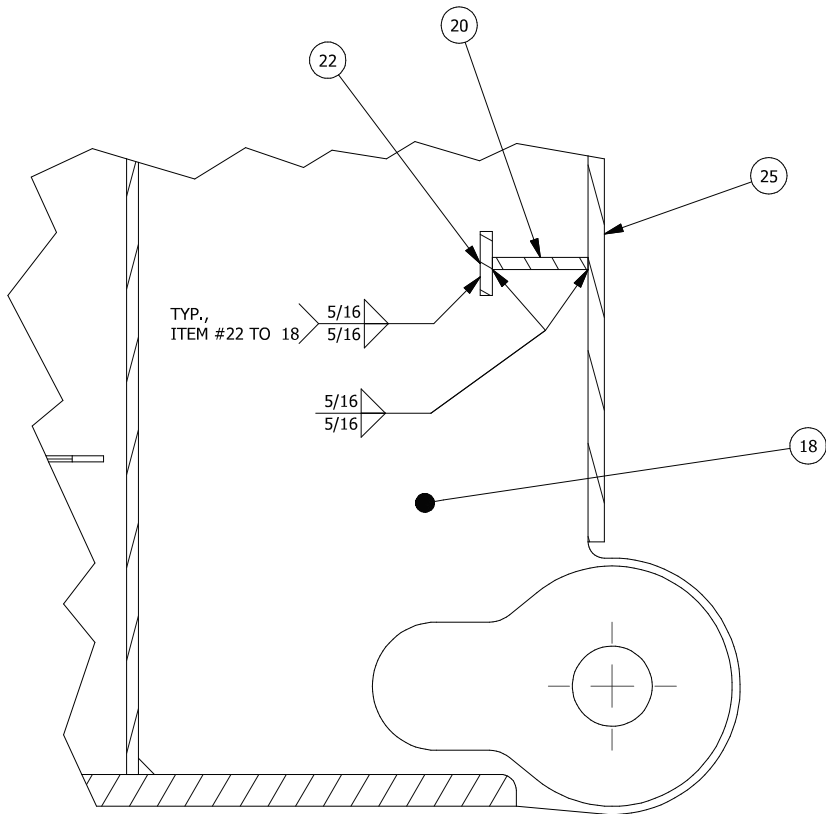
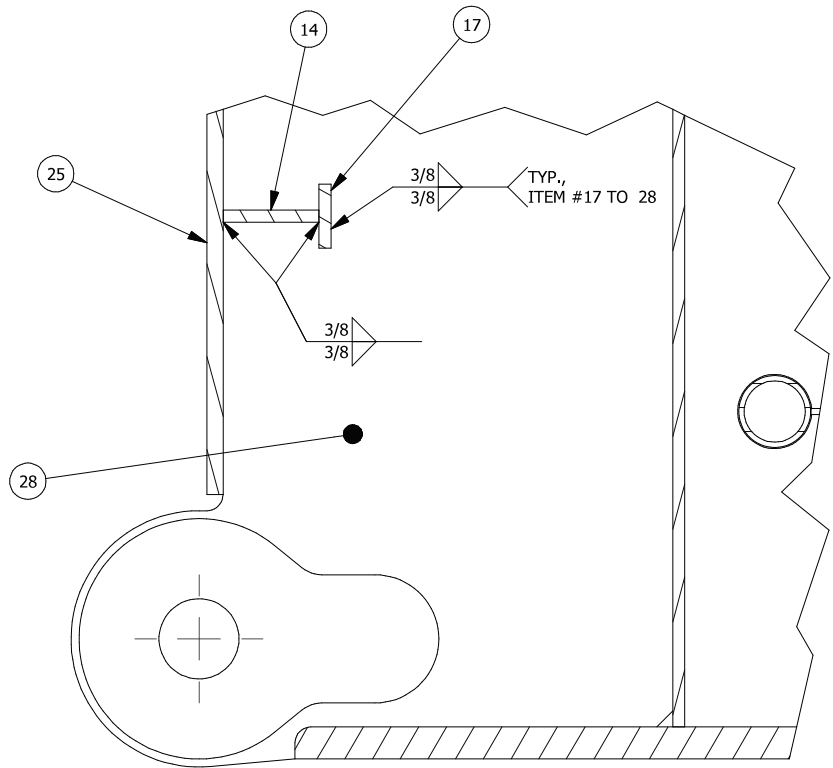
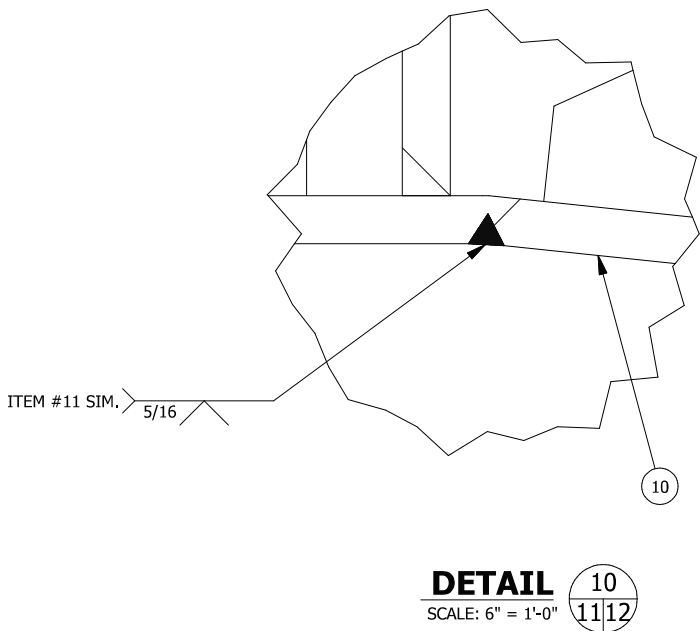
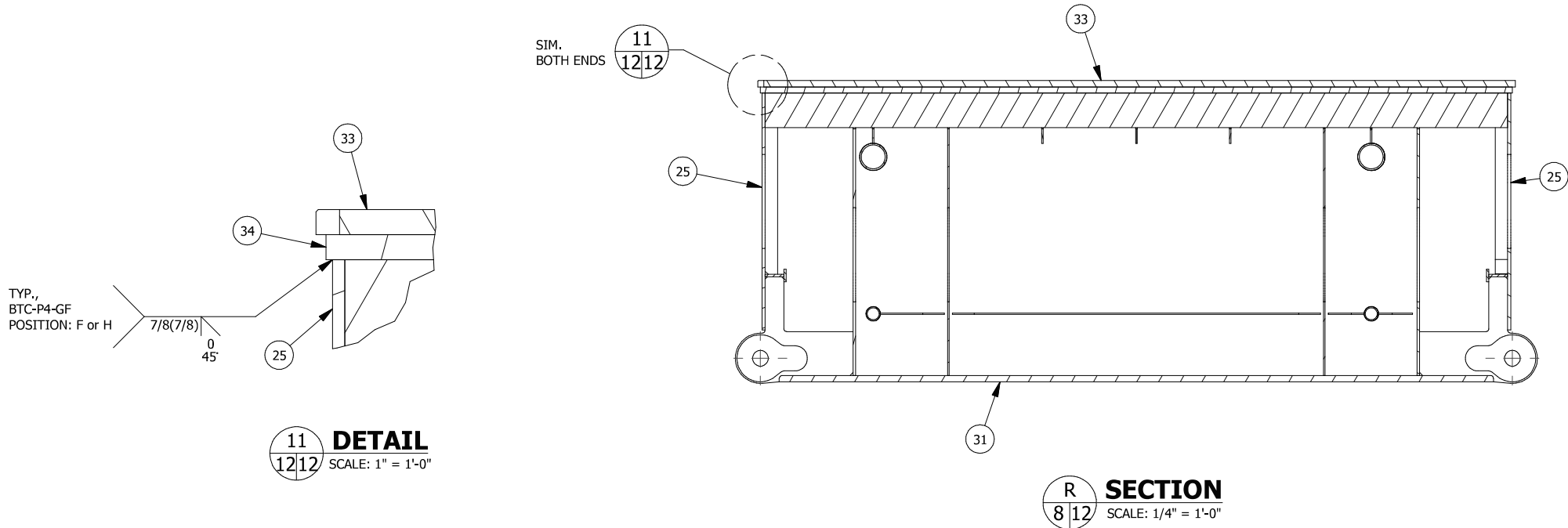
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**7** **DETAIL**  
1111 SCALE: 1" = 1'-0"

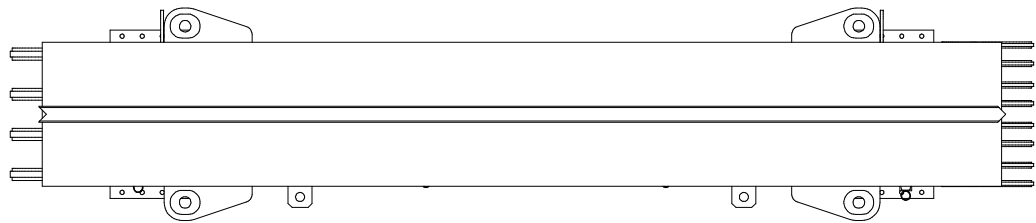
NOTE: ITEMS 24, 35 & 36 OMITTED FOR CLARITY

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		<p><i>Established 1974</i></p>					
<p><b>POWER CONSTRUCTORS</b></p>							
<p><b>SME20 RECORD DRAWING</b></p>							
<p><b>WELDING SECTION &amp; DETAIL VIEWS</b></p>							
<p><b>20'-0" BOX GIRDER</b></p>							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B			SME20	11	of 19	0

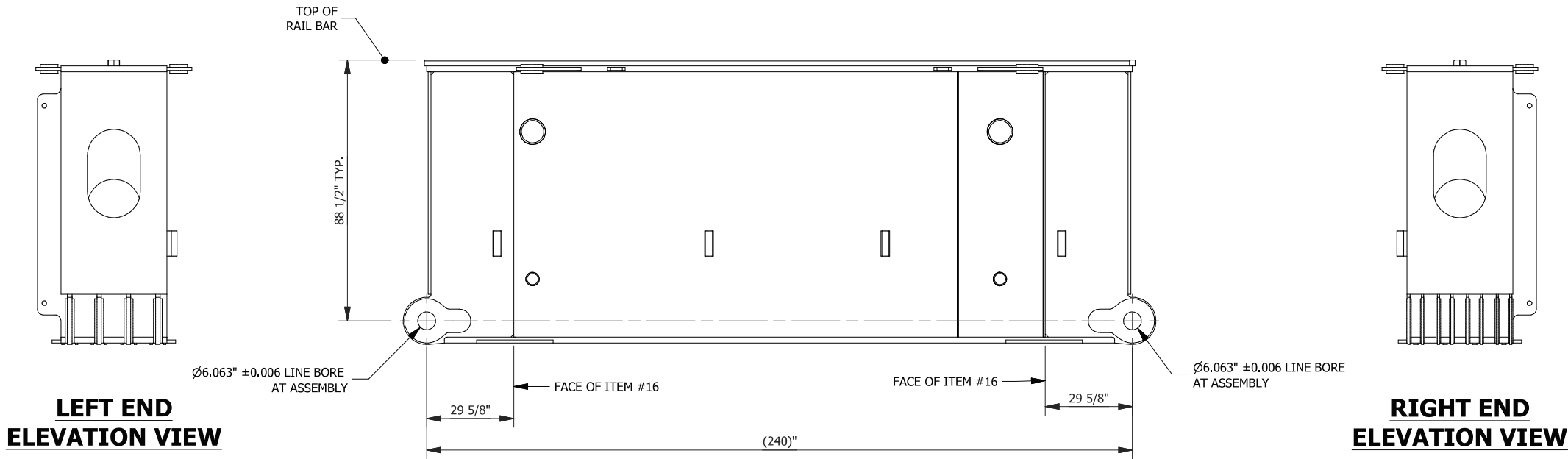


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SME20 RECORD DRAWING WELDING SECTION & DETAIL VIEWS 20'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.	DWG. No. SME20	SHEET 12 of 19	REV. 0		




PLAN VIEW

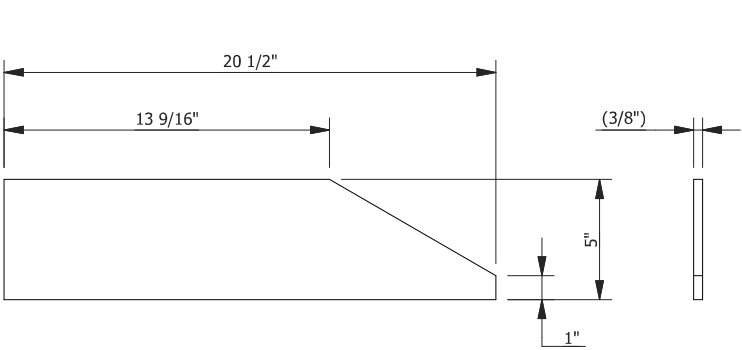


ELEVATION VIEW

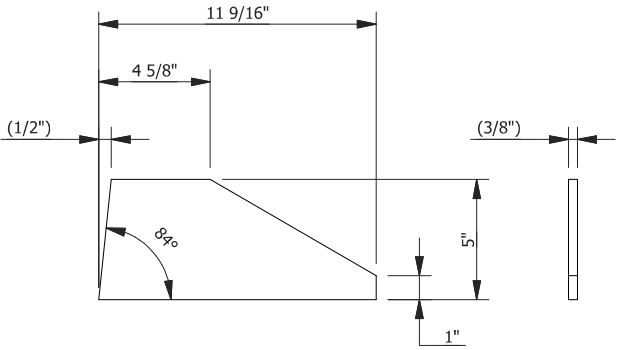
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			POWER CONSTRUCTORS						
SME20 RECORD DRAWING MACHINING ORTHO VIEWS 20'-0" BOX GIRDER									
SCALE: (U.N.O) 1/4"=1'-0"		SIZE B	PROJECT No.			DWG. No. SME20		SHEET 13 of 19	REV. 0

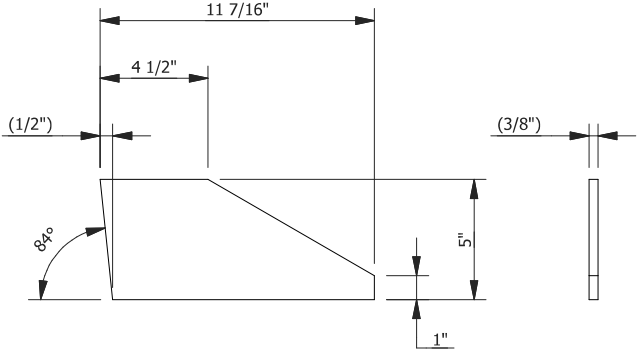




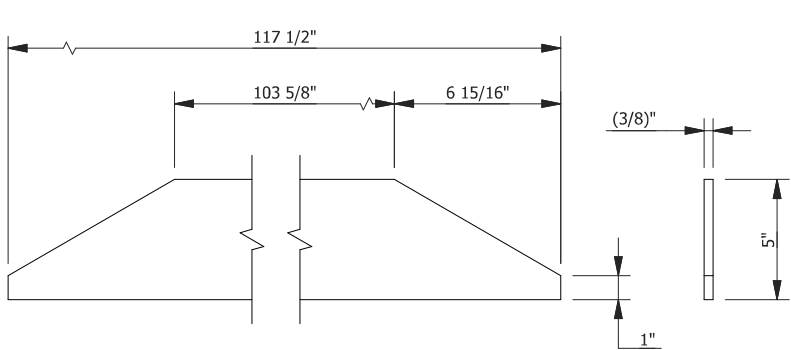
DETAIL 1  
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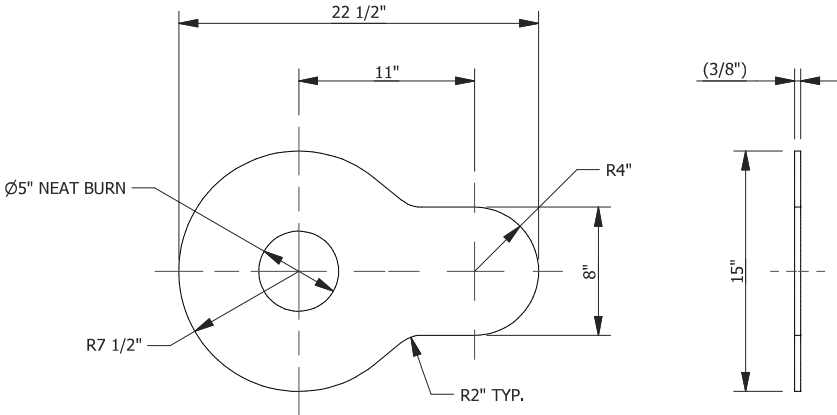
DETAIL 2  
SCALE: 1 1/2" = 1'-0"



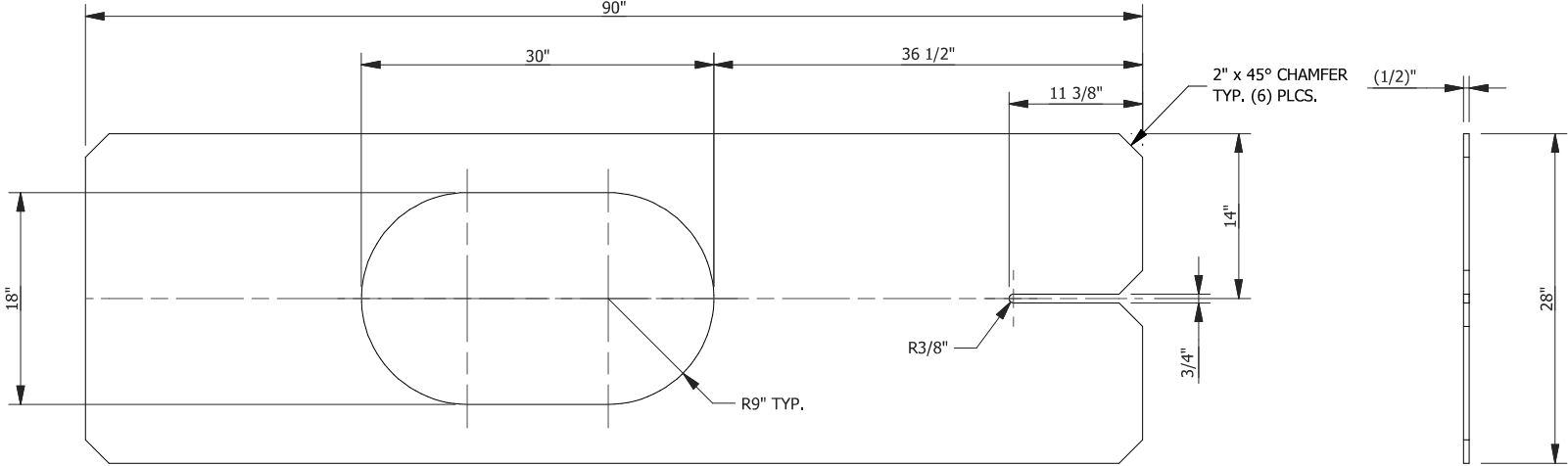
DETAIL 3  
SCALE: 1 1/2" = 1'-0"



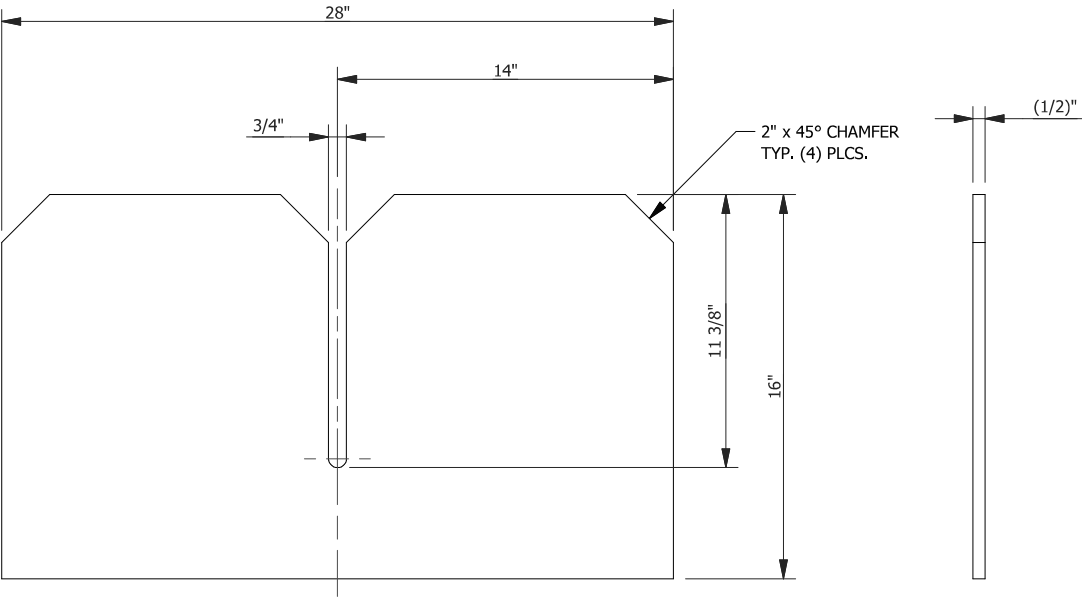
DETAIL 4  
SCALE: 1 1/2" = 1'-0"



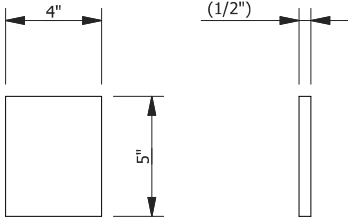
DETAIL 5  
SCALE: 1" = 1'-0"



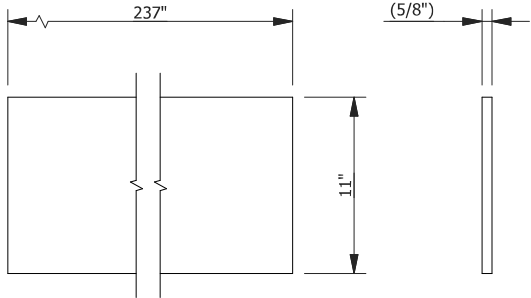
DETAIL 6  
SCALE: 3/4" = 1'-0"



DETAIL 7  
SCALE: 1 1/2" = 1'-0"



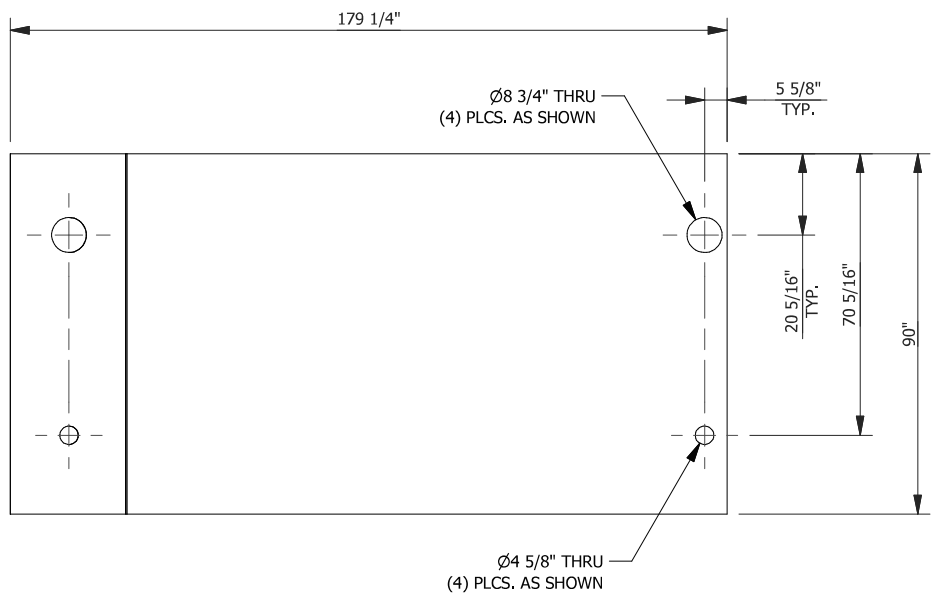
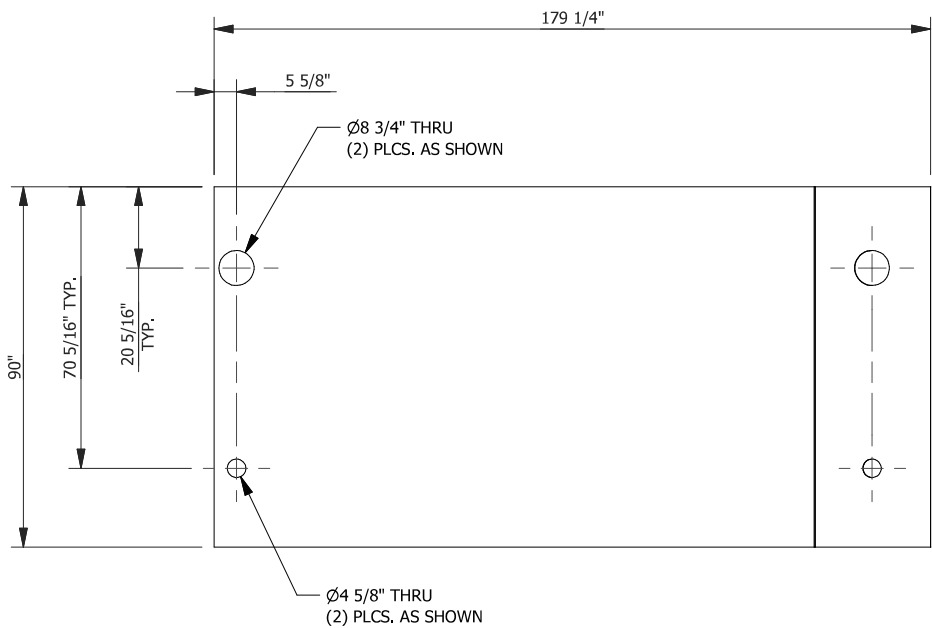
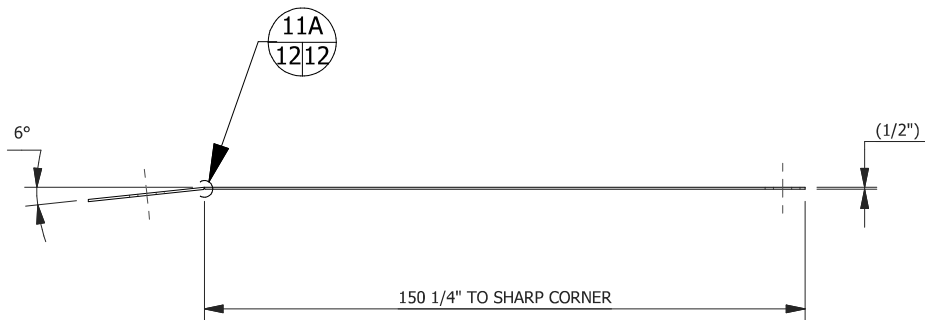
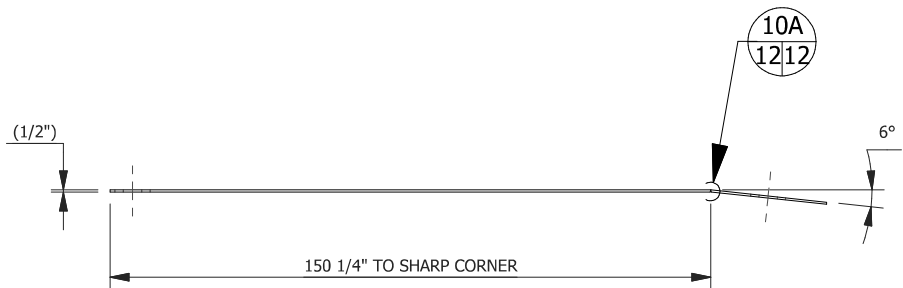
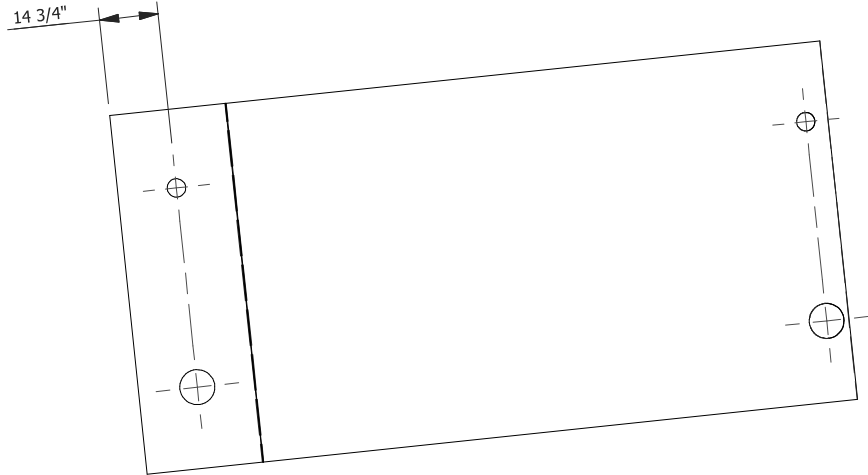
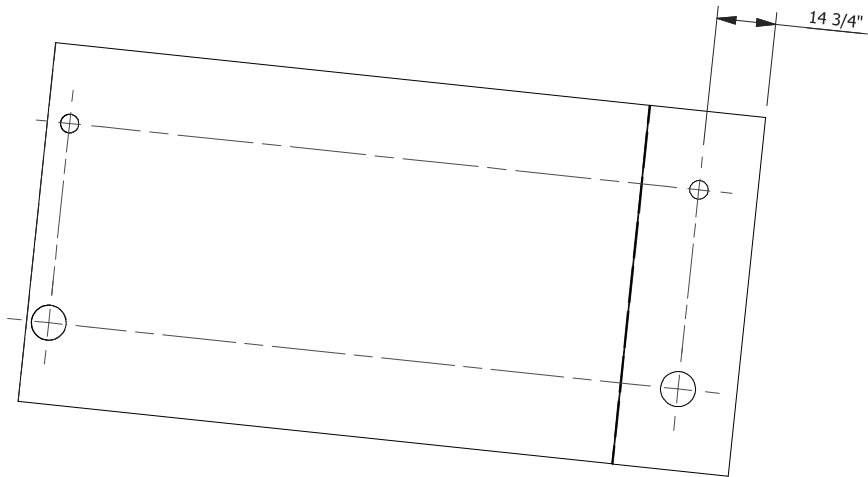
DETAIL 8  
SCALE: 1 1/2" = 1'-0"



DETAIL 9  
SCALE: 1" = 1'-0"

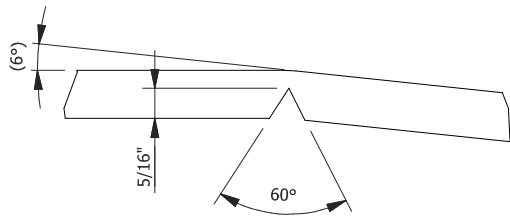
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SME20 RECORD DRAWING DETAILS 20'-0" BOX GIRDER							
SCALE: (U.N.O) AS NOTED	SIZE B	PROJECT No.		DWG. No. SME20		SHEET 14 of 19	REV. 0

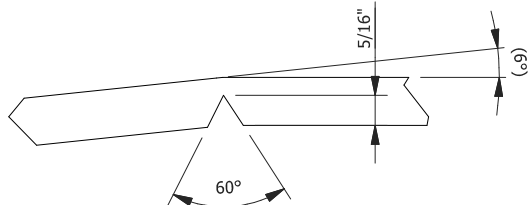


**DETAIL**  
SCALE: 1/4" = 1'-0" **10**

**DETAIL**  
SCALE: 1/4" = 1'-0" **11**



**10A**  
**1515** **DETAIL**  
SCALE: 6" = 1'-0"



**11A**  
**1515** **DETAIL**  
SCALE: 6" = 1'-0"

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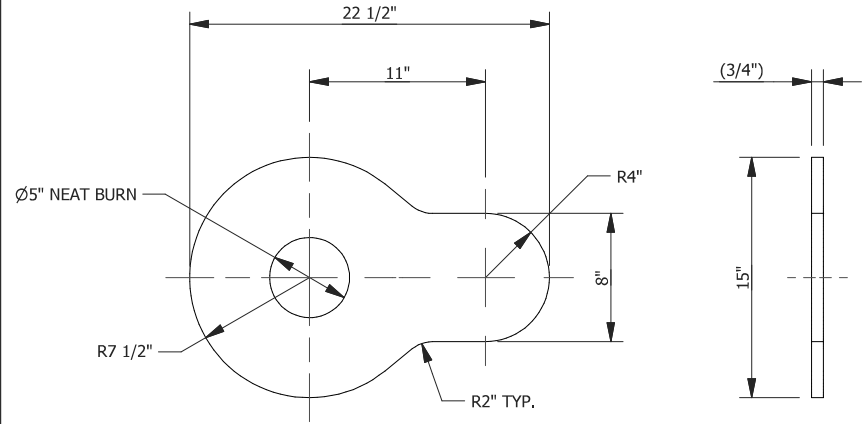
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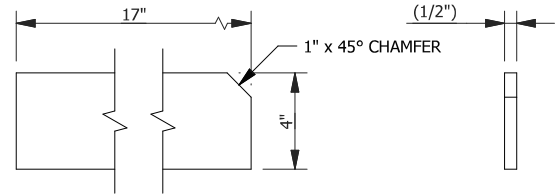


SME20 RECORD DRAWING  
DETAILS  
20'-0" BOX GIRDER

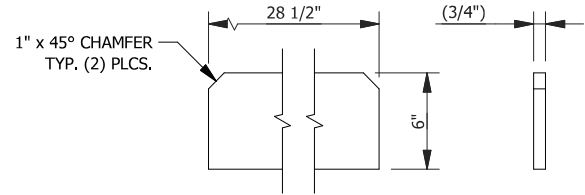
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.
AS NOTED	B		SME20	15 of 19	0



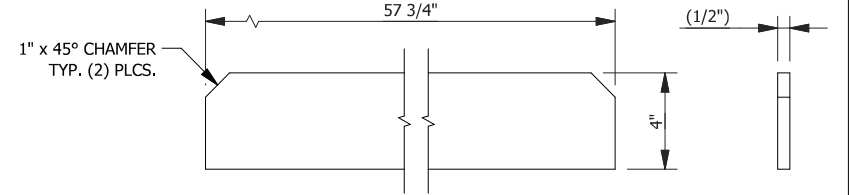
**DETAIL 12**  
SCALE: 1" = 1'-0"



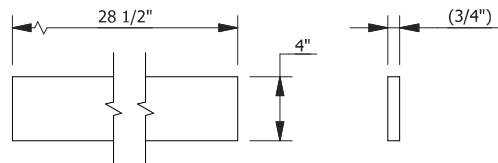
**DETAIL 13**  
SCALE: 1 1/2" = 1'-0"



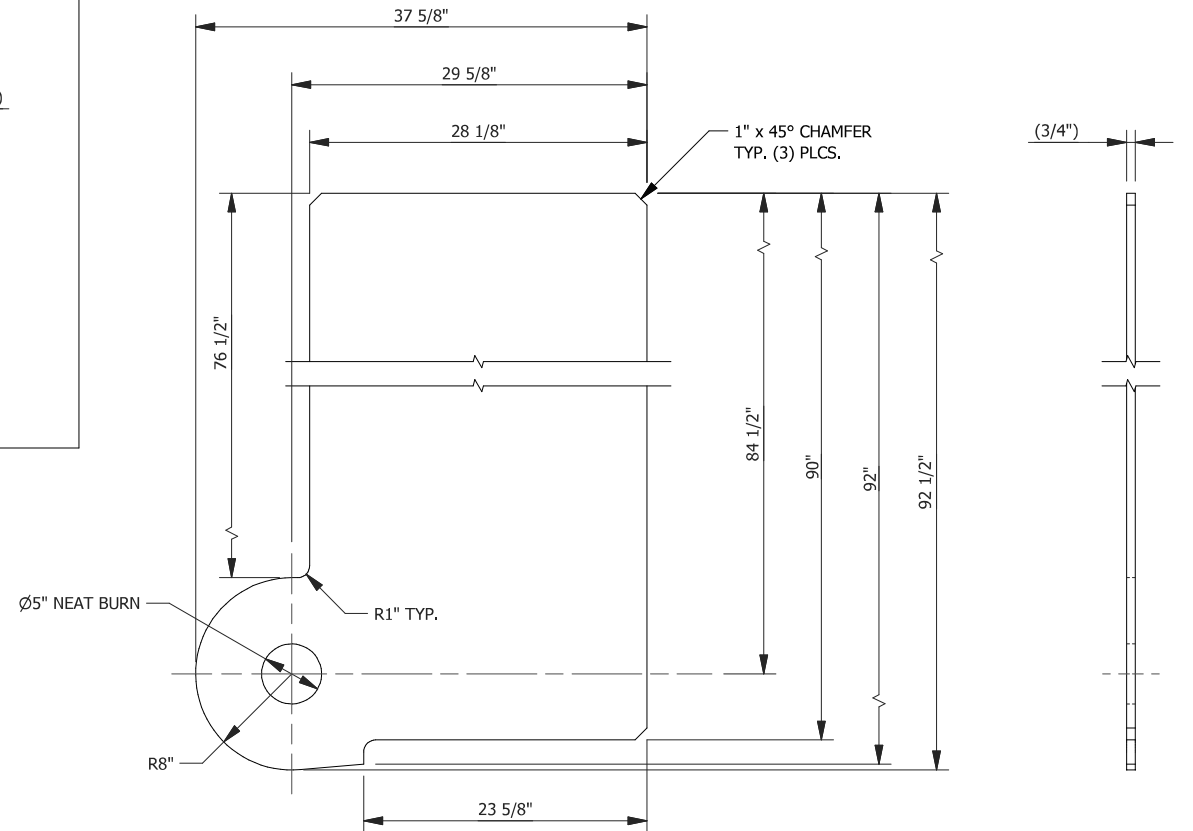
**DETAIL 14**  
SCALE: 1" = 1'-0"



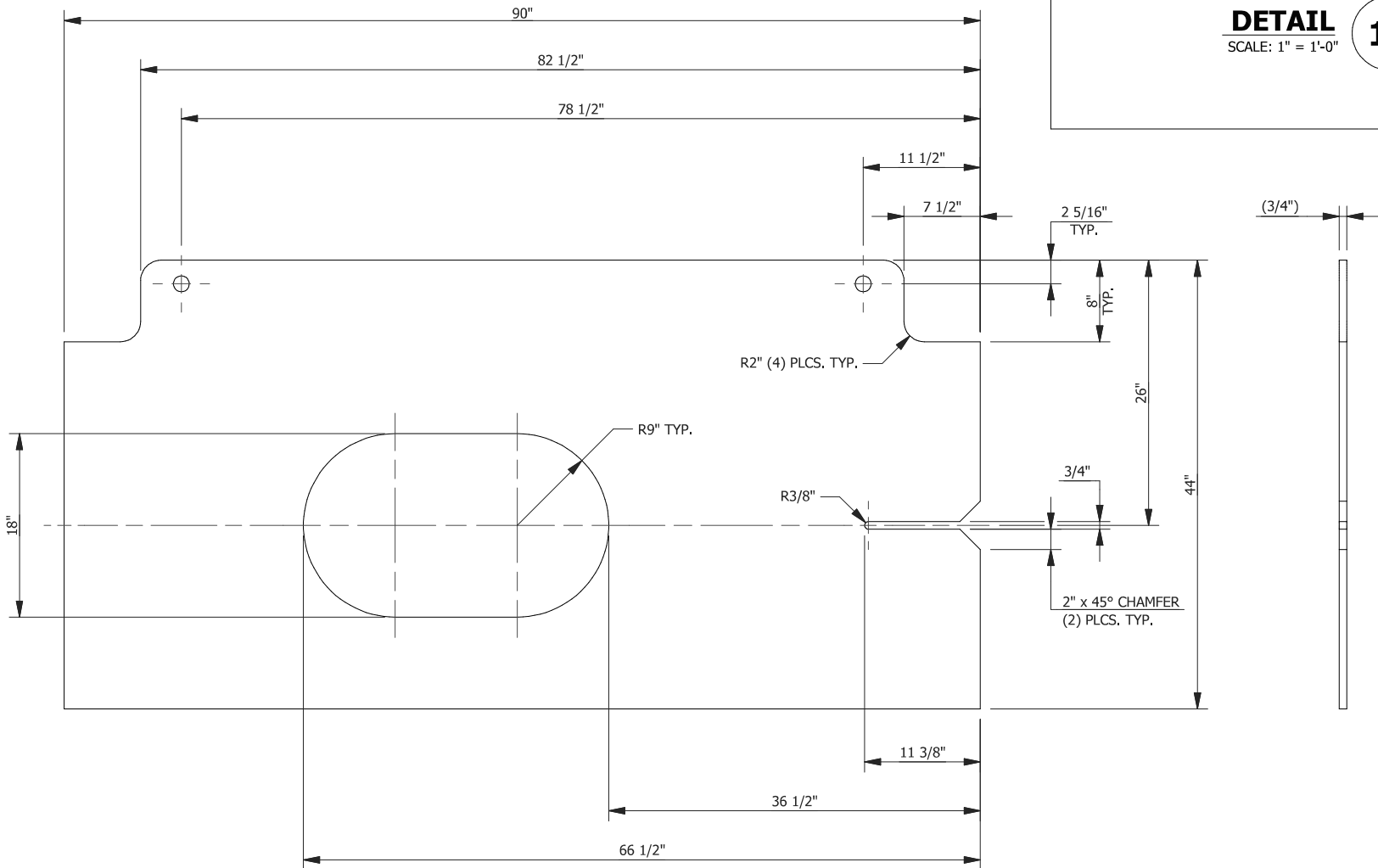
**DETAIL 15**  
SCALE: 1 1/2" = 1'-0"



**DETAIL 17**  
SCALE: 1" = 1'-0"



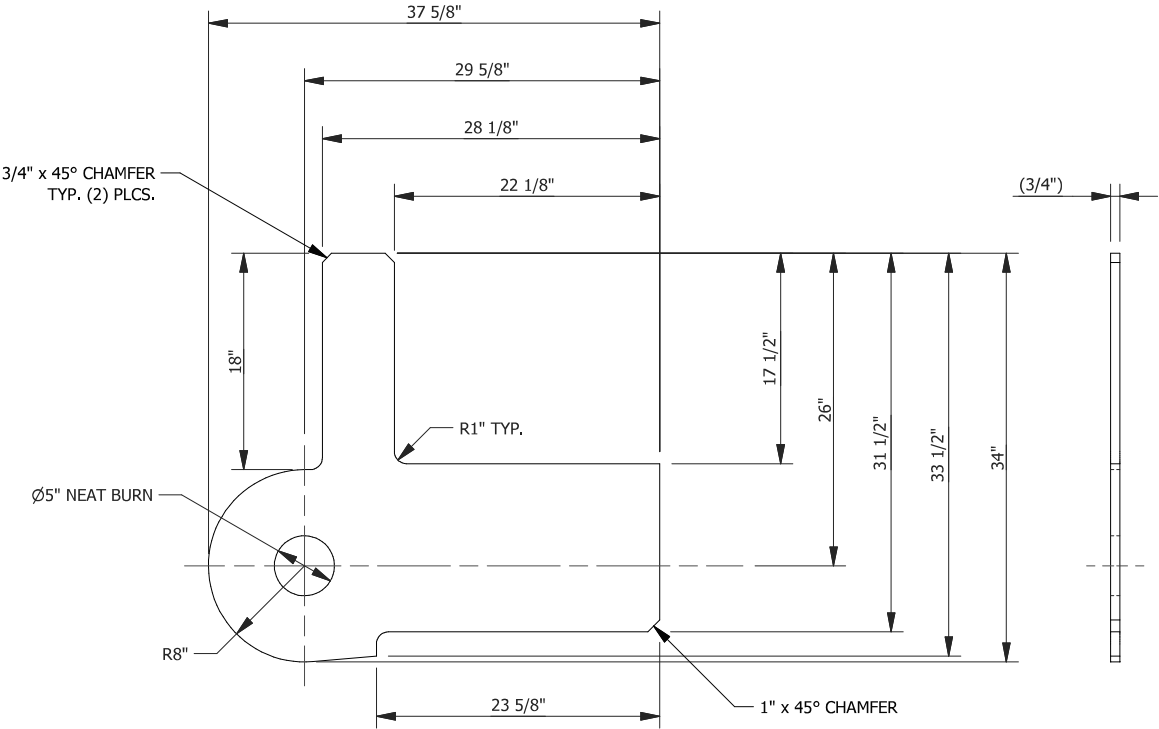
**DETAIL 18**  
SCALE: 3/4" = 1'-0"



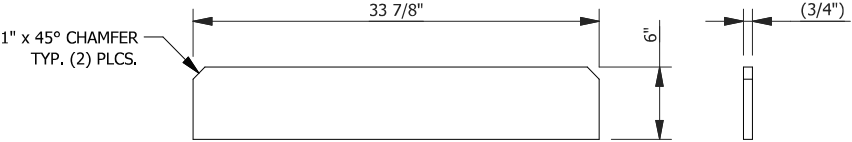
**DETAIL 16**  
SCALE: 3/4" = 1'-0"

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Established 1974							
SME20 RECORD DRAWING DETAILS 20'-0" BOX GIRDER							
SCALE: (U.N.O.)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B			SME20	16 of 19	0	



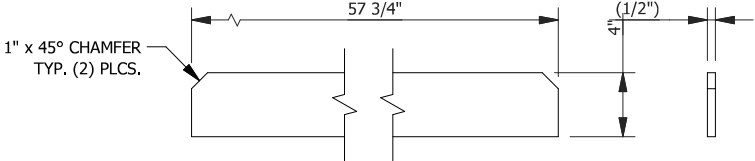
DETAIL 19  
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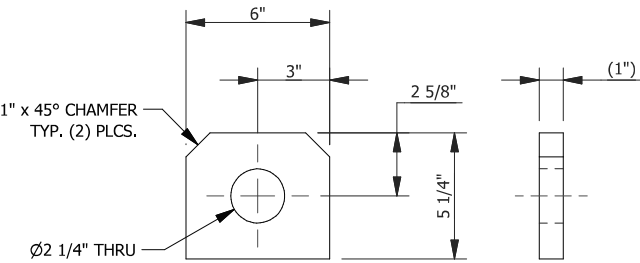
DETAIL 20  
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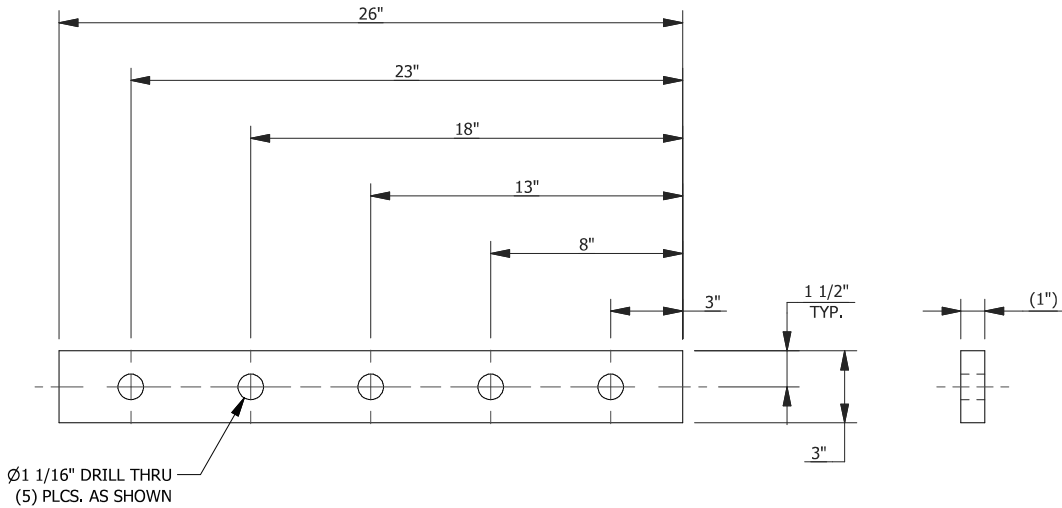
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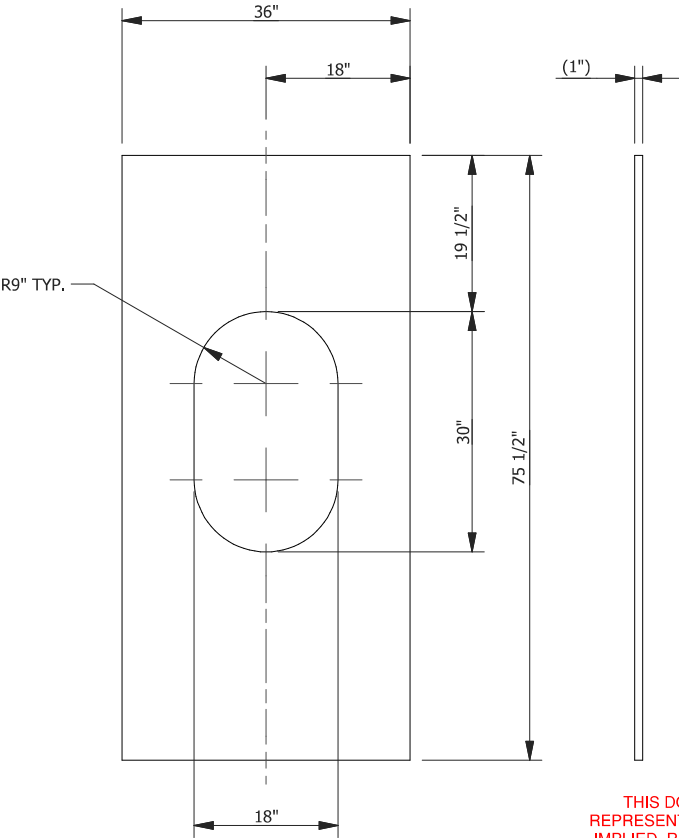
DETAIL 21  
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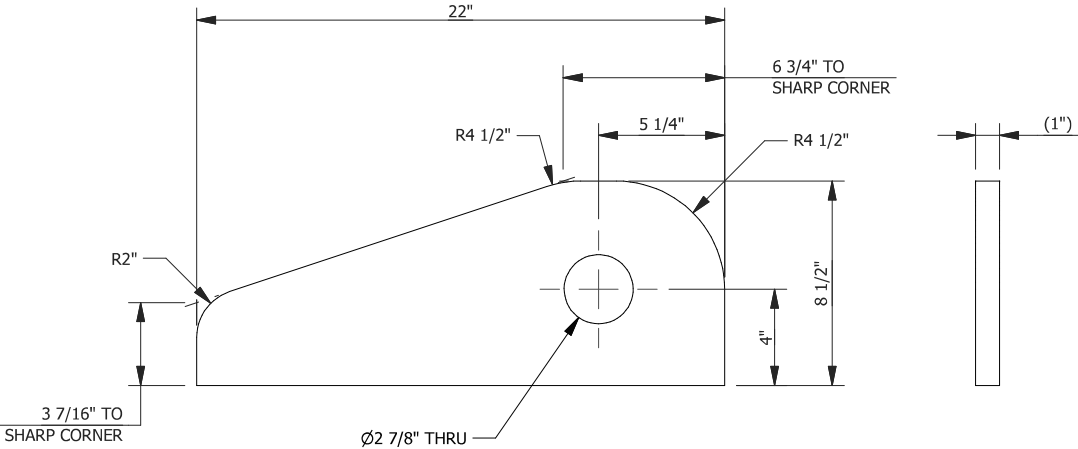
DETAIL 23  
SCALE: 1 1/2" = 1'-0"



DETAIL 24  
SCALE: 1 1/2" = 1'-0"




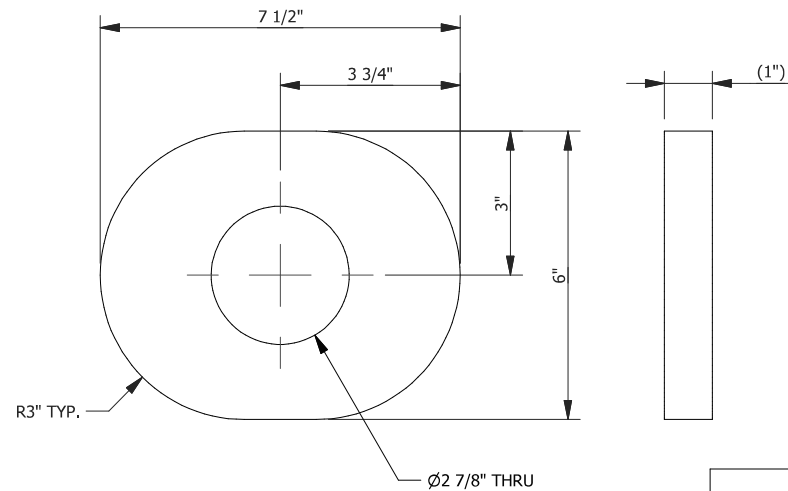
DETAIL 25  
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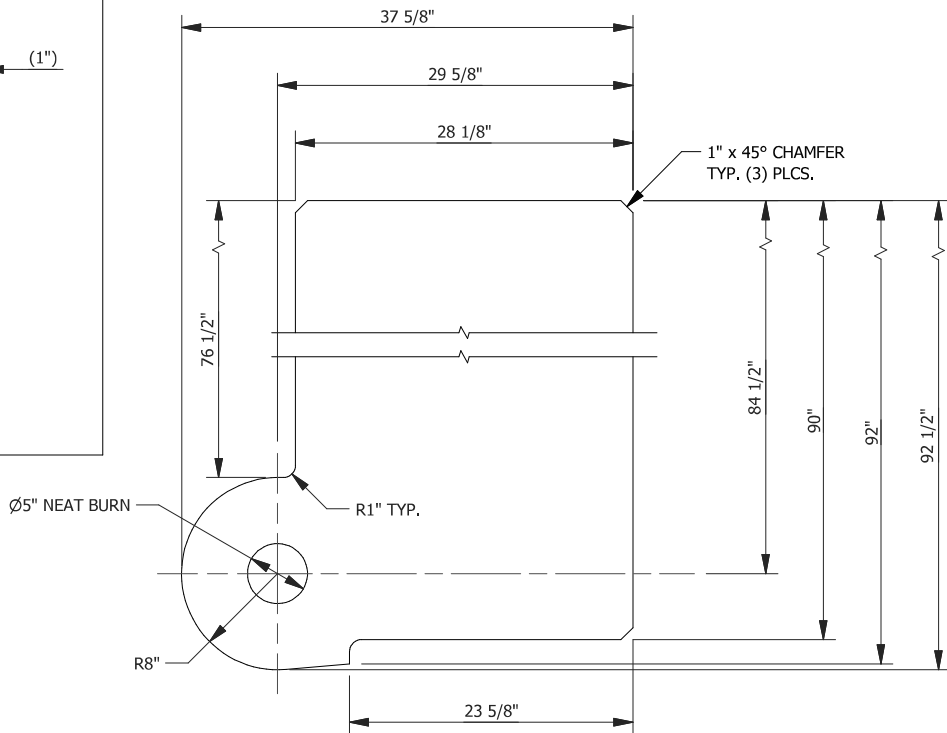
DETAIL 26  
SCALE: 1 1/2" = 1'-0"

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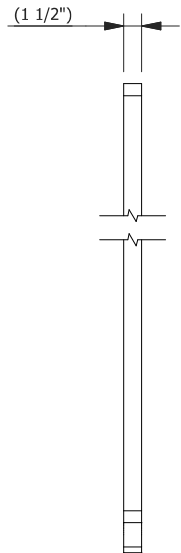
0	ORIGINAL ISSUE	8/9/13	RF	8/19/13	BT	8/19/13	OPH
NO.	REVISIONS	DATE	BY	DATE	BY	DATE	BY
		DRAWN		CHECKED		APPROVED	
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SME20 RECORD DRAWING DETAILS 20'-0" BOX GIRDER							
SCALE: (U.N.O)	SIZE	PROJECT No.	DWG. No.	SHEET	REV.		
AS NOTED	B		SME20	17 of 19	0		



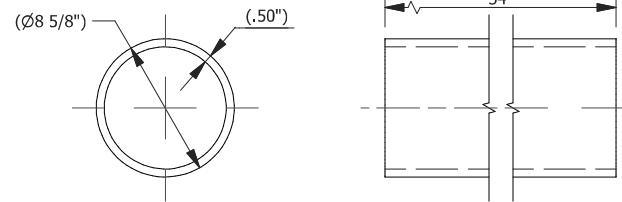
**DETAIL 27**  
SCALE: 3" = 1'-0"



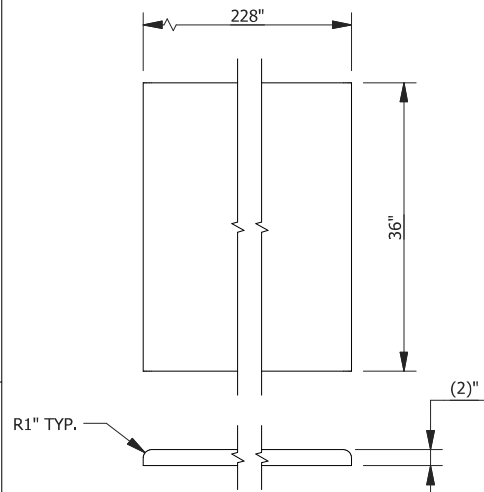
**DETAIL 28**  
SCALE: 3/4" = 1'-0"



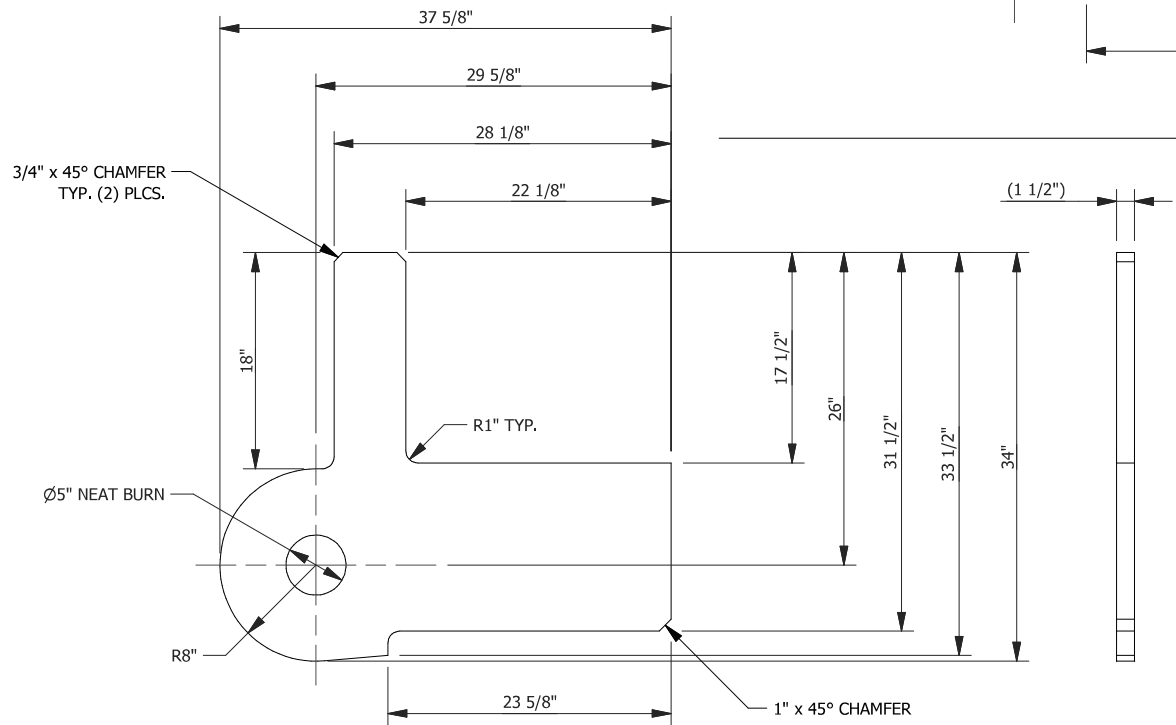
**DETAIL 29**  
SCALE: 1 1/2" = 1'-0"



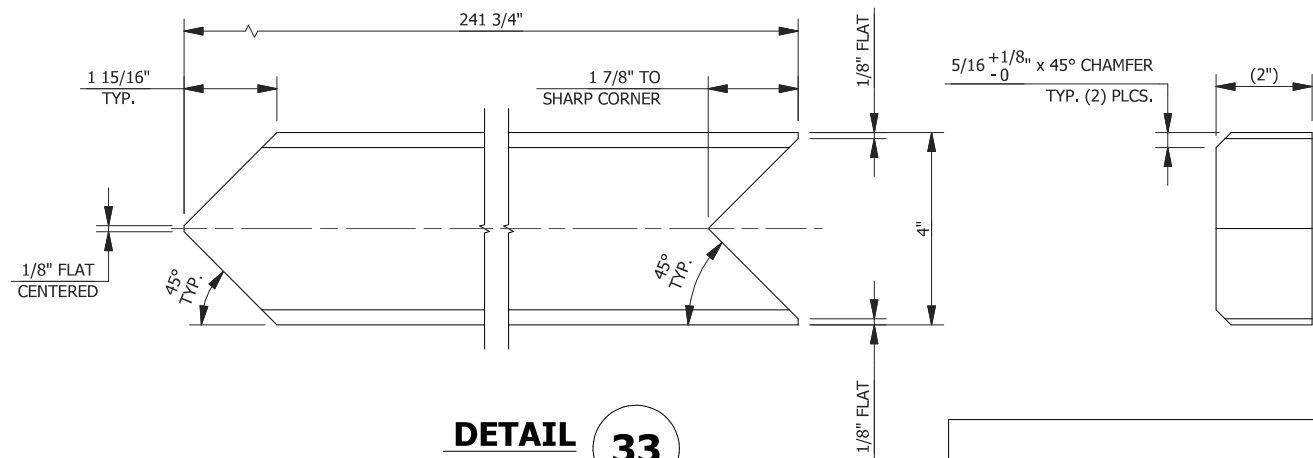
**DETAIL 30**  
SCALE: 1" = 1'-0"



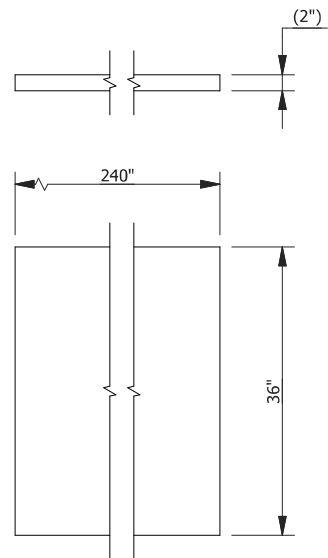
**DETAIL 31**  
SCALE: 1/2" = 1'-0"



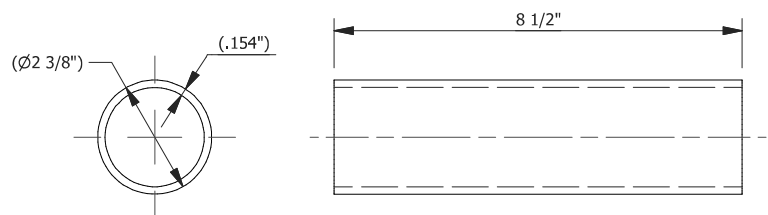
**DETAIL 32**  
SCALE: 3/4" = 1'-0"



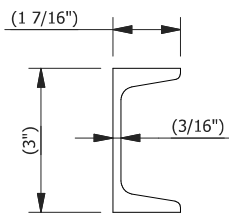
**DETAIL 33**  
SCALE: 3" = 1'-0"



**DETAIL 34**  
SCALE: 1/2" = 1'-0"




**DETAIL 35**  
SCALE: 3" = 1'-0"

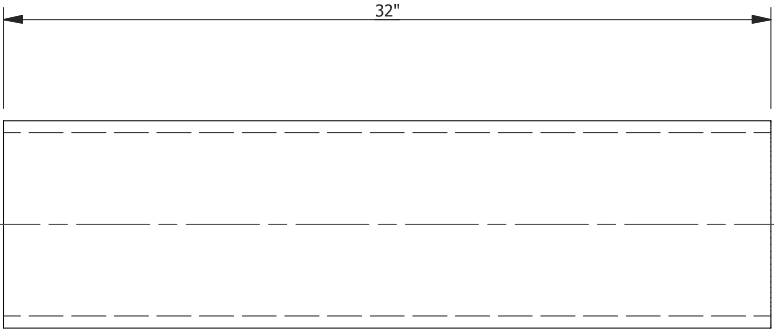
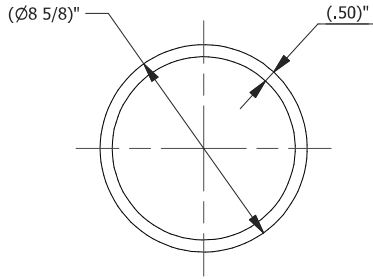


**DETAIL 36**  
SCALE: 3" = 1'-0"

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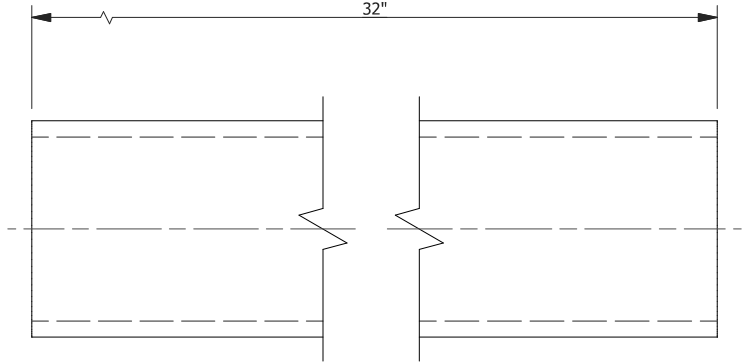
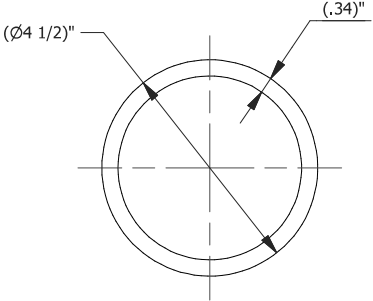
0	ORIGINAL ISSUE	8/9/13	RF	8/19/13	BT	8/19/13	OPH
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**DETAIL**  
SCALE: 1 1/2" = 1'-0"

37



**DETAIL**  
SCALE: 3" = 1'-0"

38

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SCALE: (U.N.O) AS NOTED		SIZE B	PROJECT No.		DWG. No. SME20		SHEET 19 of 19	REV. 0