



CLEANING:-SSPC-SP6



CLEANING:-SSPC-SP6



SAMPLE DRAWING: ANCHOR ROD DETAIL

Total weight : 2710

1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE.
2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36.
3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A53 GRADE B.
4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B ($F_y=46ksi$)
5. ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

SENT APPROVAL		RECEIVED APPROVAL	
SHOP	CONTRACTOR		
		JOB NAME:	
ERECTOR	ARCHITECT	LOCATION:	
		CUSTOMER:	
		ARCH./ENGINEER	
REVISIONS		BOLTS TC 3/4" DIA A325N UNLESS NOTED HOLES 13/16"DIA UNLESS NOTED	
X		DR. BY:	SURFACE PREP: SSPC-SP3
X		CH. BY:	SHOP PAINT NO PAINT
X		DATE	
X		JOB NO.:	SHT. - NO. : ONE



FOR RIGHT END CONNECTION REFER:
SC-14

SHOP BOLTS:
5-TC $3/4 \times 2 1/4$ A325N



LEFT END LOAD CAPACITIES:
SHEAR: 16.6 KIPS

RIGHT END LOAD CAPACITIES:
SHEAR: 16.6 KIPS

SHOP BOLTS:
4-TC 3/4x2 A325N



SHOP BOLTS (Unless Noted):
5-TC 3/4x2 1/4 A325N

RIGHT END LOAD CAPACITIES:
SHEAR: 58.5 KIPS

FOR LEFT END CONNECTION REFER:-
SC-14



LEFT END LOAD CAPACITIES:
SHEAR: 60.7 KIPS

FOR RIGHT END CONNECTION REFER:
SC-14

SHOP BOLTS (Unless Noted):
5-TC 3/4x2 1/4 A325N

Total weight : 2699

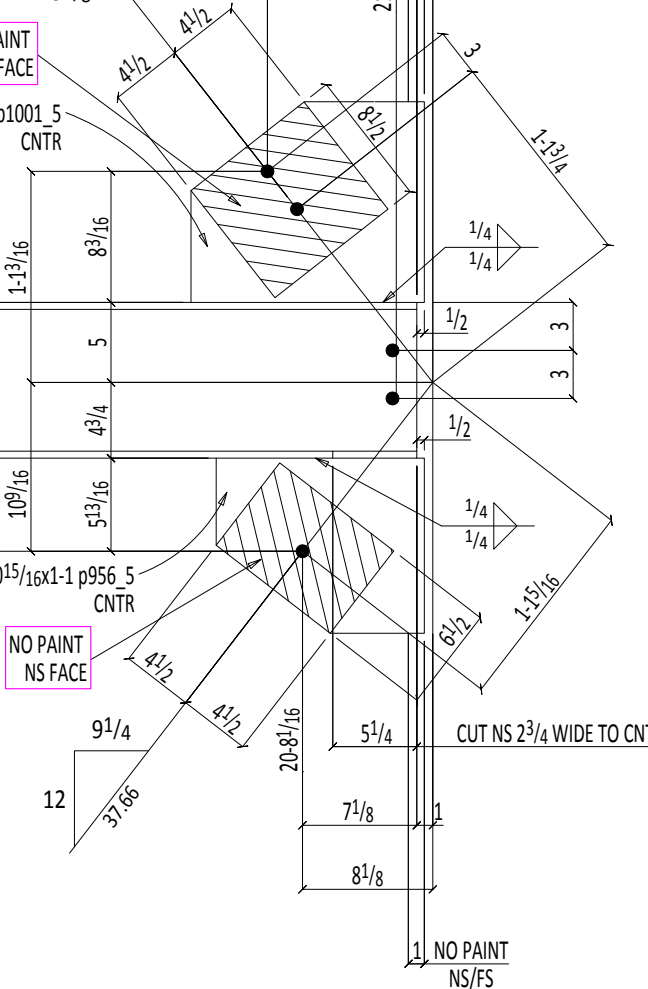
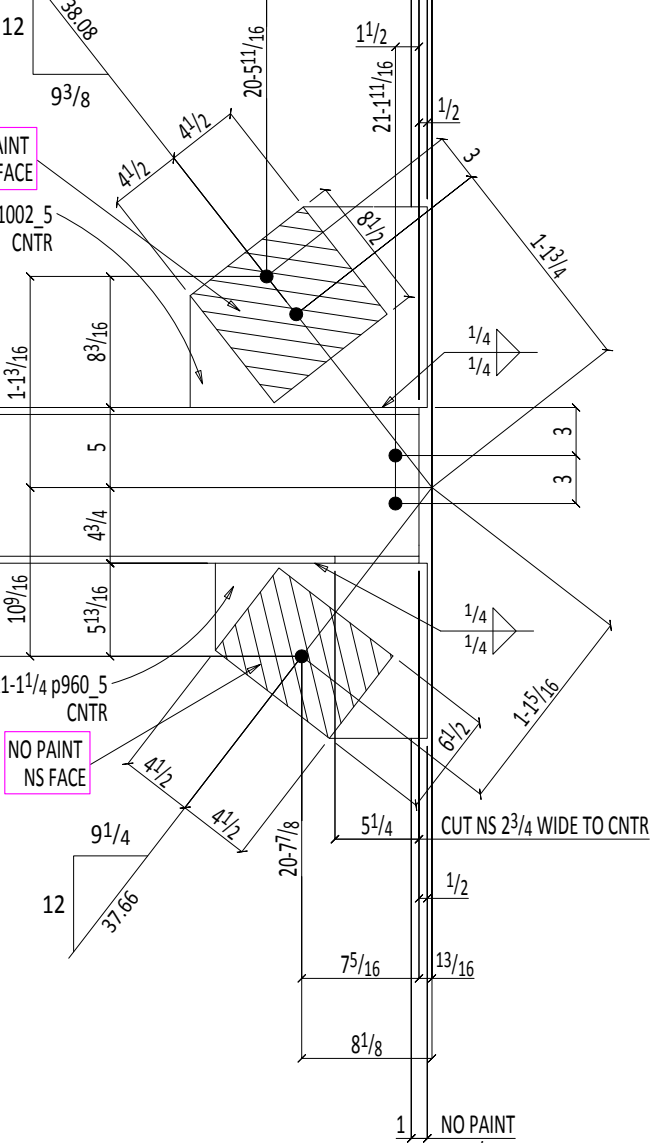
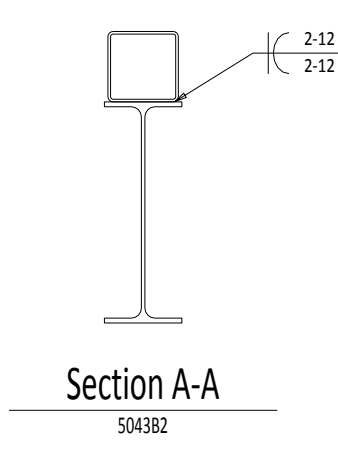
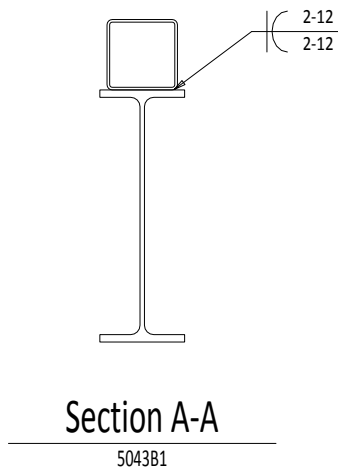
SHOP NOTES:

1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE.
2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36.
3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B (Fy=42ksi).
4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B (Fy=46ksi).
5. ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

SENT APPROVAL		RECEIVED APPROVAL			
SHOP		CONTRACTOR			
		JOB NAME:			
		LOCATION:			
ERECTOR		ARCHITECT			
		CUSTOMER:			
		ARCH/ENGINEER			
REVISIONS		BOLTS		TC 3/4" DIA A325N	
X		DR. BY:		UNLESS NOTED	
3		SURFACE PREP.		SSPC-SP3	
2		CH. BY:		SHOP PAINT	
1		DATE		STD SHOP PRIMER	
		JOB NO.:		SHT. - NO. - 238	

238

Jan 23 2020 14:31:28



Total weight : 3284

1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE.
2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36.
3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A513 GRADE B.
4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B ($F_y=46ksi$)
5. ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

SENT APPROVAL		RECEIVED APPROVAL			
SHOP		CONTRACTOR			
		JOB NAME:			
ERECTOR		ARCHITECT		LOCATION:	
				CUSTOMER:	
		ARCH./ENGINEER			
REVISIONS		BOLTS	3/4" DIA A325N	UNLESS NOTED	HOLES 13/16" DIA UNLESS NOTED
X		DR. BY:	SURFACE PREP:	SSPC-SP3	
X		CH. BY:	SHOP PAINT	STD SHOP PRIMER	
C		DATE			
B		JOB NO.:		SHT. NO.:	5043 0

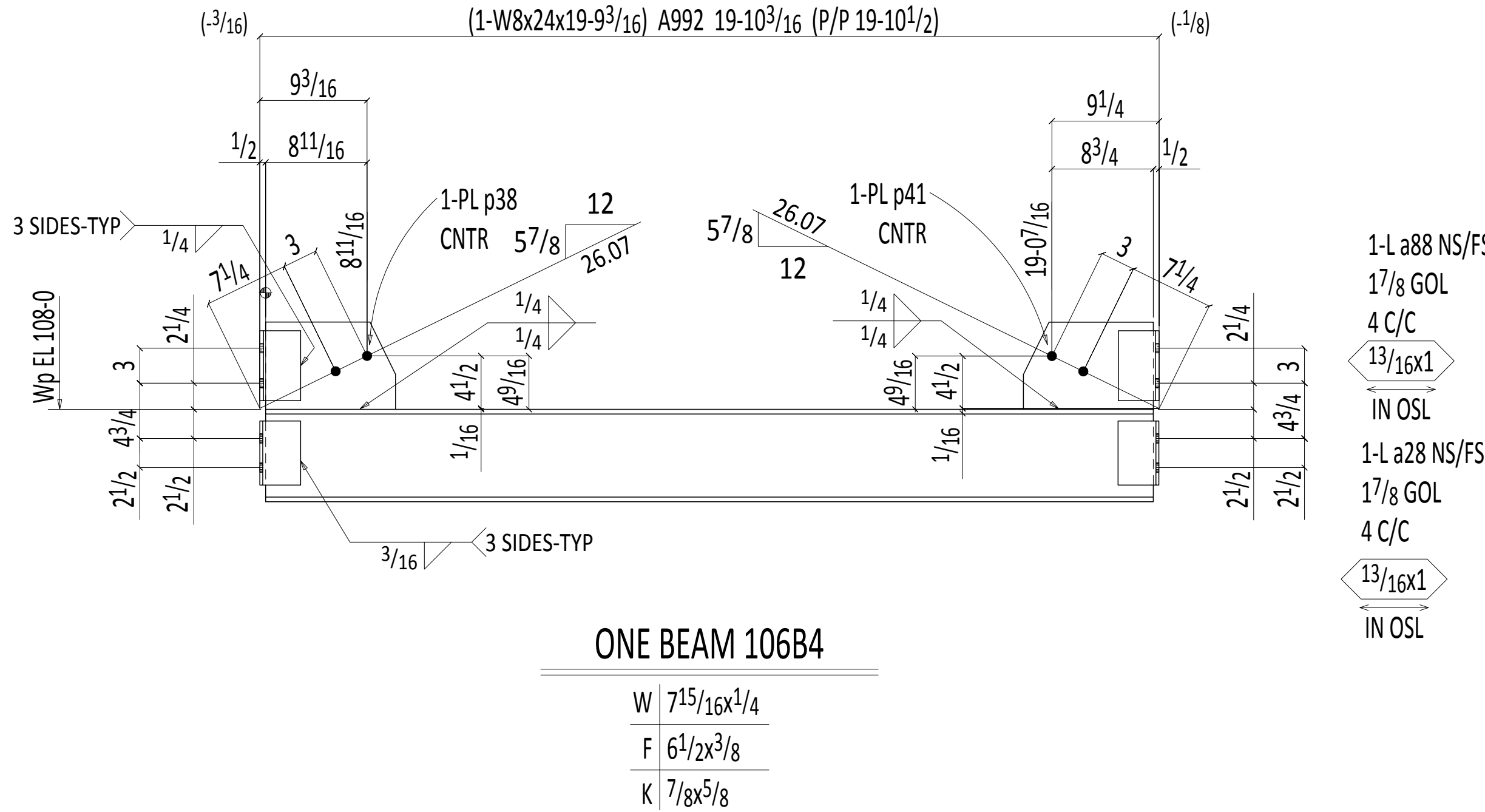
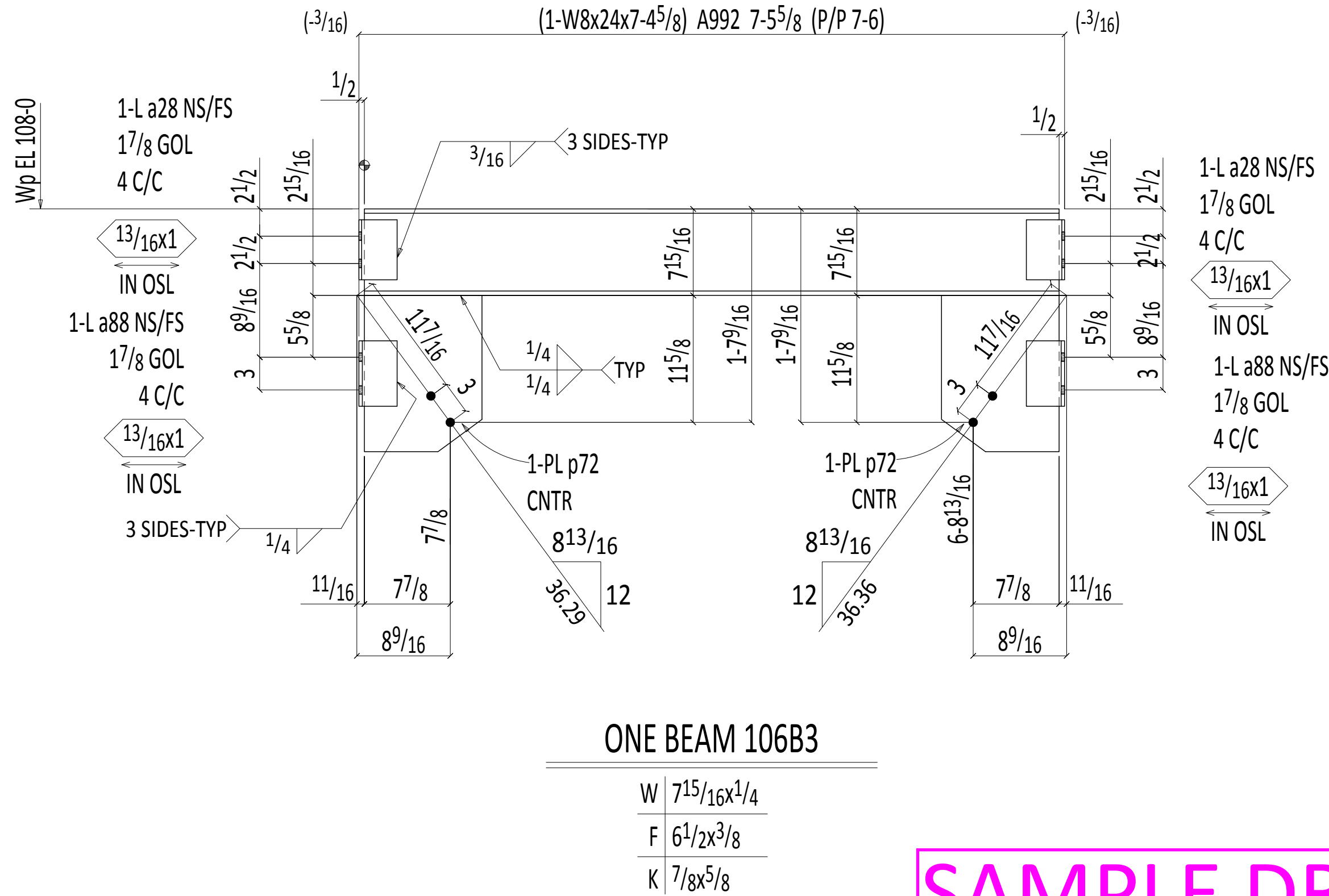
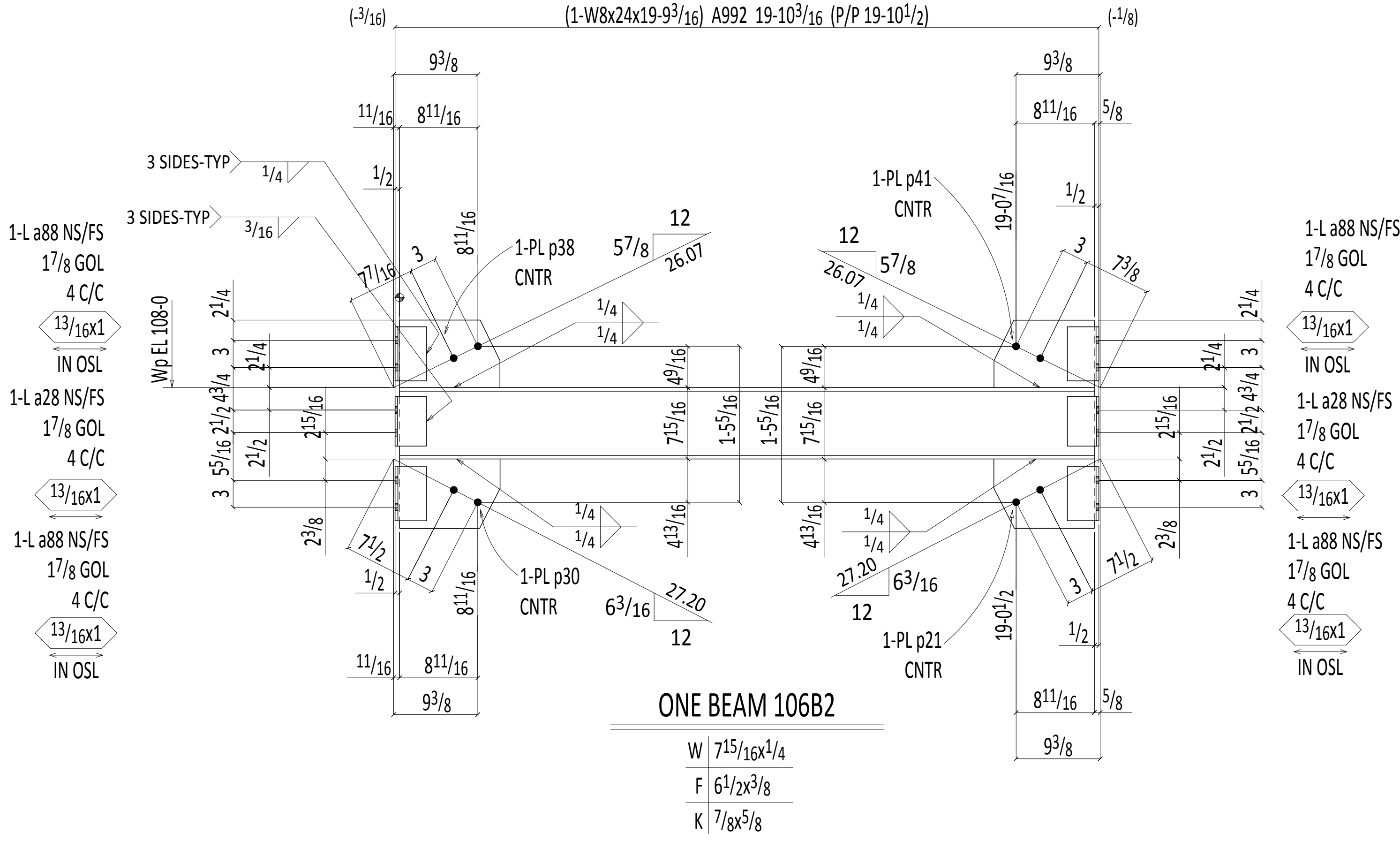
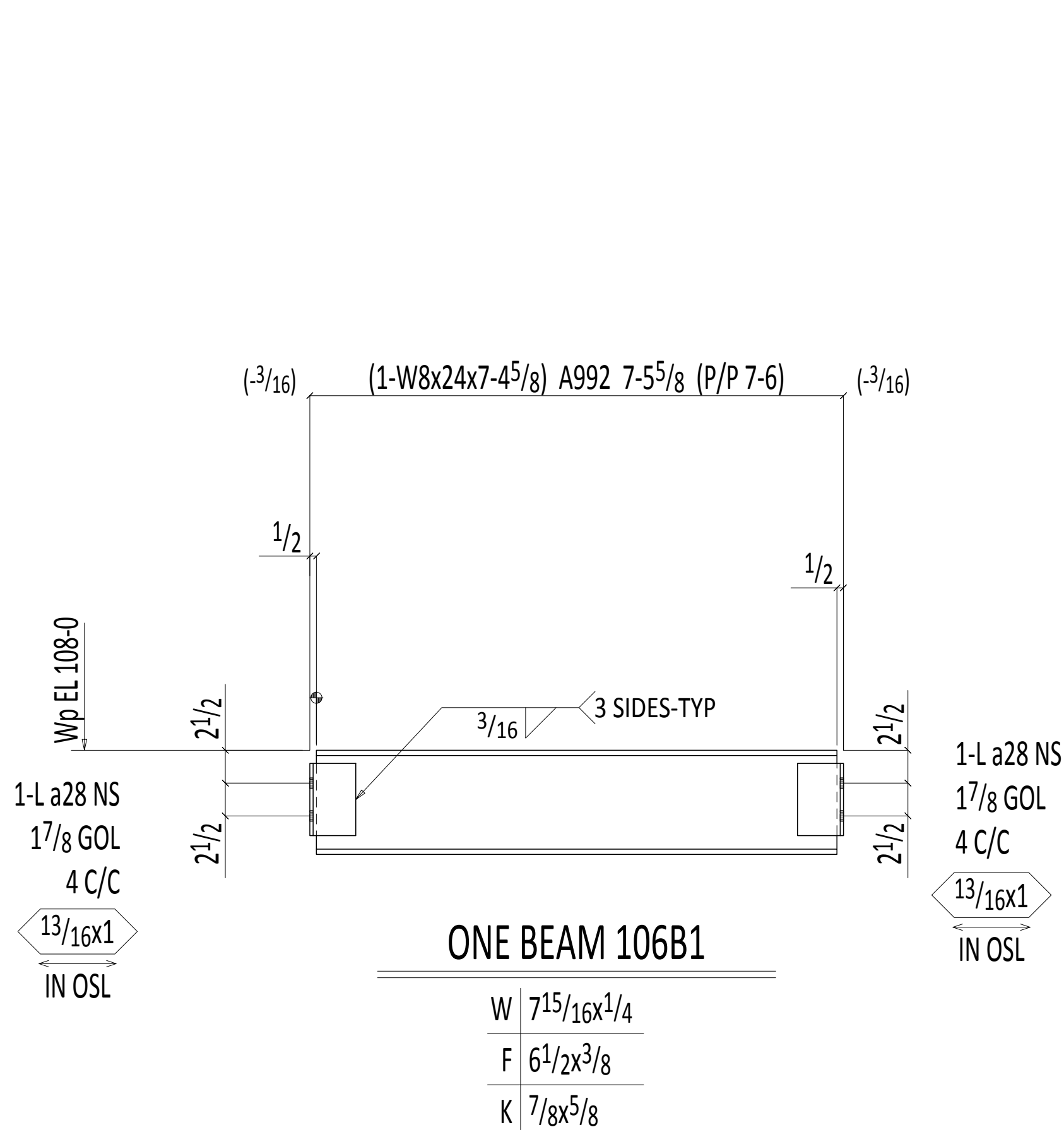
[illegible]

W	$15^{11}/16x^{1/4}$
F	$5^{1/2}x^{3/8}$
K	$1^{1/16}x^{13/16}$

ALL WELDING TO BE
DONE IN ACCORDANCE
WITH ANSI/AWS D1.1,
STRUCTURAL WELDING
CODE - STEEL, OF LATEST
ISSUE, UNLESS NOTED
OTHERWISE.

REV	DESCRIPTION	MADE	CKD	DATE

JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH./ENGINEER			
BOLTS	3/4" Dia A325N TC	UNLESS NOTED	HOLES 13/16" DIA UNLESS NOTED
DR. BY:	AESS CAT. ---		
CH. BY:	SHOP PAINT PNT		
DATE	JOB NO.:	SHT. NO.:	B1202 



BILL OF MATERIAL							
LINE #	QTY	PC MARK	DESCRIPTION	LENGTH	REMARKS	WEIGHT TOTAL	ADVANCE MILL #
ONE 106B1	BEAM					188	
1 106B1	W8x24			7 4 ⁵ / ₈	A992	177 1-31	
4 a28	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 5 ¹ / ₂	A36	11	
	FIELD BOLTS						
4	3/4 Dia A325			0 1 ³ / ₄	+1HD WASH		
ONE 106B2	BEAM					550	
1 106B2	W8x24			19 9 ³ / ₁₆	A992	474 1-28	
8 a88	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 6	A36	29	
4 a28	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 5 ¹ / ₂	A36	11	
1 p30	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
1 p21	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
1 p38	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
1 p41	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
	FIELD BOLTS						
4	3/4 Dia A325			0 2 ¹ / ₄	+2HD WASH		
20	3/4 Dia A325			0 1 ³ / ₄	+1HD WASH		
ONE 106B3	BEAM					235	
1 106B3	W8x24			7 4 ⁵ / ₈	A992	177 1-31	
4 a88	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 6	A36	14	
4 a28	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 5 ¹ / ₂	A36	11	
2 p72	PL3 ¹ / ₂ x10 ³ / ₁₆			1 2 ⁹ / ₁₆	A36	33	
	FIELD BOLTS						
12	3/4 Dia A325			0 1 ³ / ₄	+1HD WASH		
ONE 106B4	BEAM					517	
1 106B4	W8x24			19 9 ³ / ₁₆	A992	474 1-28	
4 a88	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 6	A36	14	
4 a28	L3 ¹ / ₂ x3 ¹ / ₂ x ¹ / ₄			0 5 ¹ / ₂	A36	11	
1 p38	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
1 p41	PL3 ¹ / ₂ x7 ¹ / ₂			0 11 ³ / ₁₆	A36	9	
	FIELD BOLTS						
4	3/4 Dia A325			0 2 ¹ / ₄	+2HD WASH		
12	3/4 Dia A325			0 1 ³ / ₄	+1HD WASH		

Total weight : 1490

SAMPLE DRAWING: BEAM DETAIL

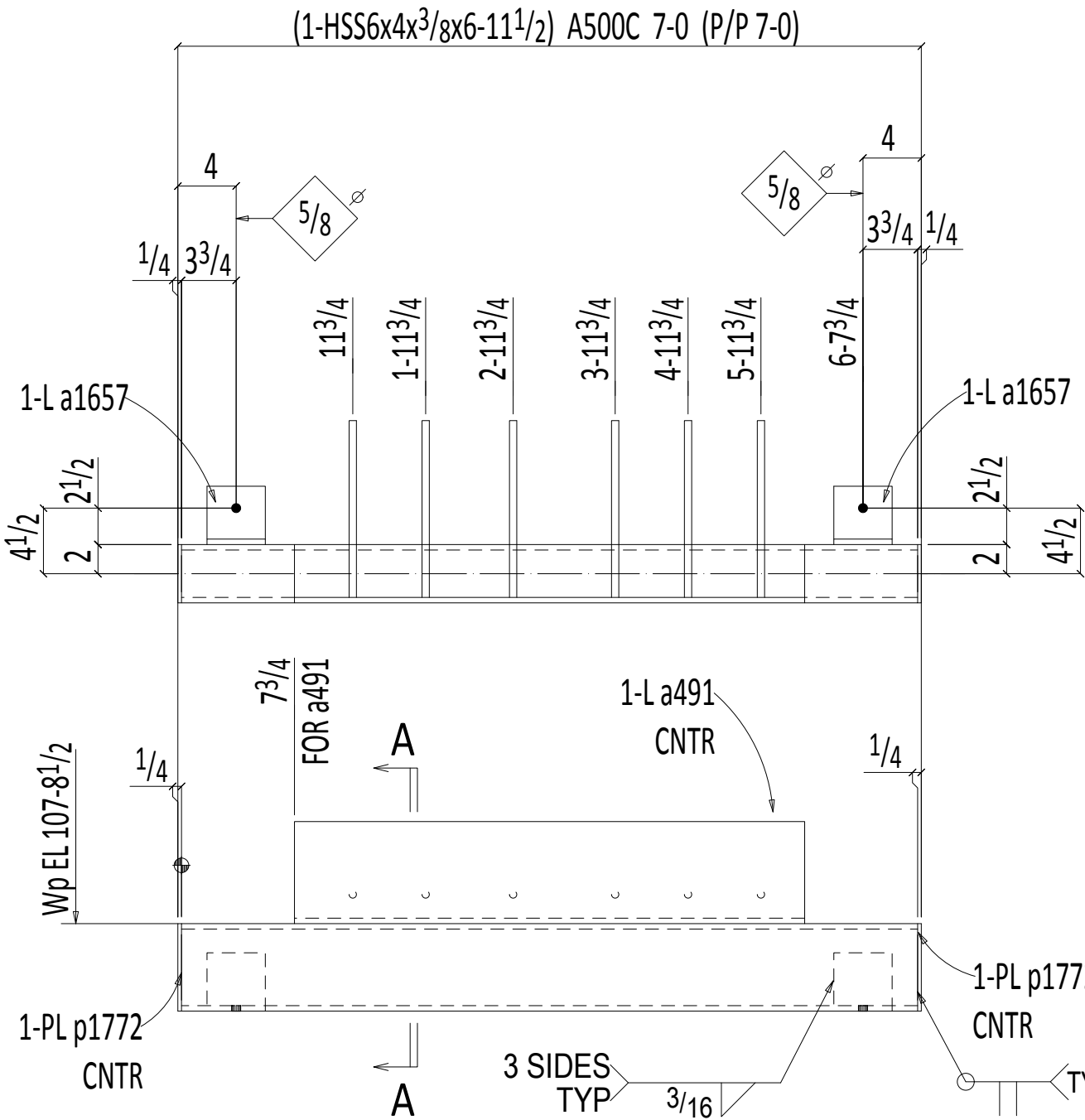
PROJECT		APPROVAL/FABRICATION/REVISION	
LOCATION			
CONTRACTOR			
ARCHITECT			
REFERENCE		REV	DATE DESCRIPTION
HOLES 13/16" DIA. UNLESS NOTED	PAINT STD. SHOP PRIMER	DRAWN	CHECKED SHEET # 106 JOB #
	SURFACE PREP SSPC-SP2		



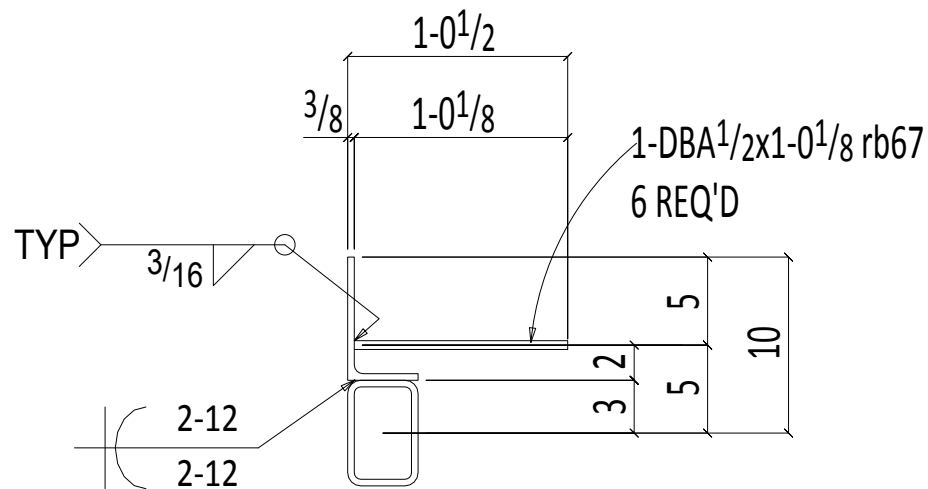
W	$20^{13}/16x^3/8$
F	$6^{1/2}x^9/16$
K	$1^{1/4}x^7/8$

ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH./ENGINEER			
BOLTS	3/4" Dia A325N TC	UNLESS NOTED	HOLES 13/16" DIA UNLESS NOTED
DR. BY:	AESS CAT. ---		
CH. BY:	SHOP PAINT PNT		
DATE	JOB NO.:		SHT. NO.: B1204 



ONE BEAM 1007B1



Section A-A
1007B1

BILL OF MATERIAL

LINE #	QTY TOTAL	PC MARK	DESCRIPTION	LENGTH	REMARKS	WEIGHT TOTAL	ADVANCE MILL #
ONE		1007B1	BEAM			244	
1		1007B1	HSS6x4x3/8	6 11 1/2	A500C	156	
1		a491	L7x4x3/8	5 8	A36	77	
2		a1657	L4x4x3/8	0 4	A36	7	
6		rb67	1/2 DBA	1 0 1/8	(DEFORMED BAR ANCHOR) A496	1	
2		p1772	PL 1/4x4	0 6	A36	3	
2			FIELD BOLTS	0 5	1/2 Dia HILTI KWIK EZ	EMBED = 4 1/4	

PROJECT		APPROVAL/FABRICATION/REVISION			
LOCATION					
CONTRACTOR					
ARCHITECT					
REFERENCE	E1000	REV	DATE	DESCRIPTION	
HOLES 13/16" DIA.	PAINT STANDARD SHOP GRAY PRIMER	DRAWN	CHECKED	SHEET #	JOB #
	SURFACE PREP. SSPC-SP3			1007	

SAMPLE DRAWING: HSS BEAM DETAIL

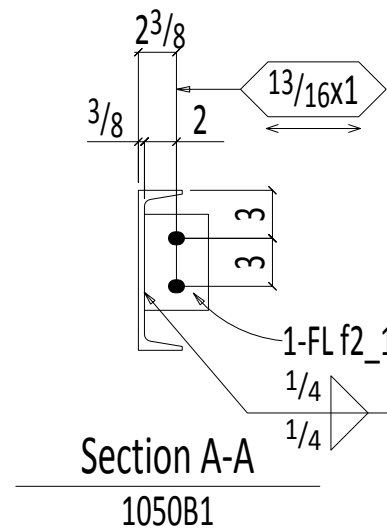


SAMPLE DRAWING: BEAM DETAIL

ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

REV	DESCRIPTION	MADE	CKD	DATE

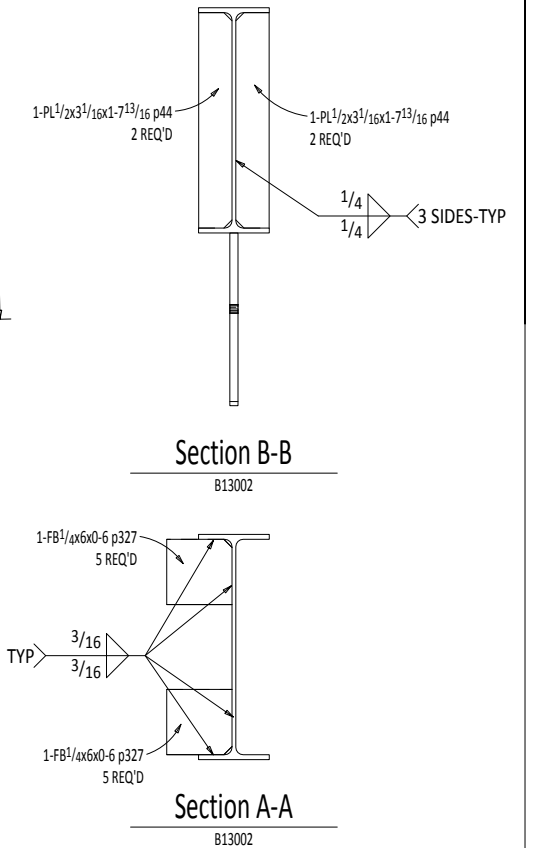
JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH./ENGINEER			
BOLTS		UNLESS NOTED	HOLES UNLESS NOTED
DR. BY:		AESS CAT.	
CH. BY:		SHOP PAINT	
DATE		JOB NO.:	SHT. NO.: B1069 



SAMPLE DRAWING: BEAM DETAIL

[illegible]

PROJECT		APPROVAL/FABRICATION/REVISION							
LOCATION									
CONTRACTOR									
ARCHITECT									
REFERENCE		REV	DATE	DESCRIPTION					
HOLES 13/16" DIA. UNLESS NOTED	PAINT	92G14 GRAY PRIMER		DRAWN	CHECKED	SHEET # 1050	JOB #		
	SURFACE PREP.	SSPC-SP2							



ONE BEAM B13002

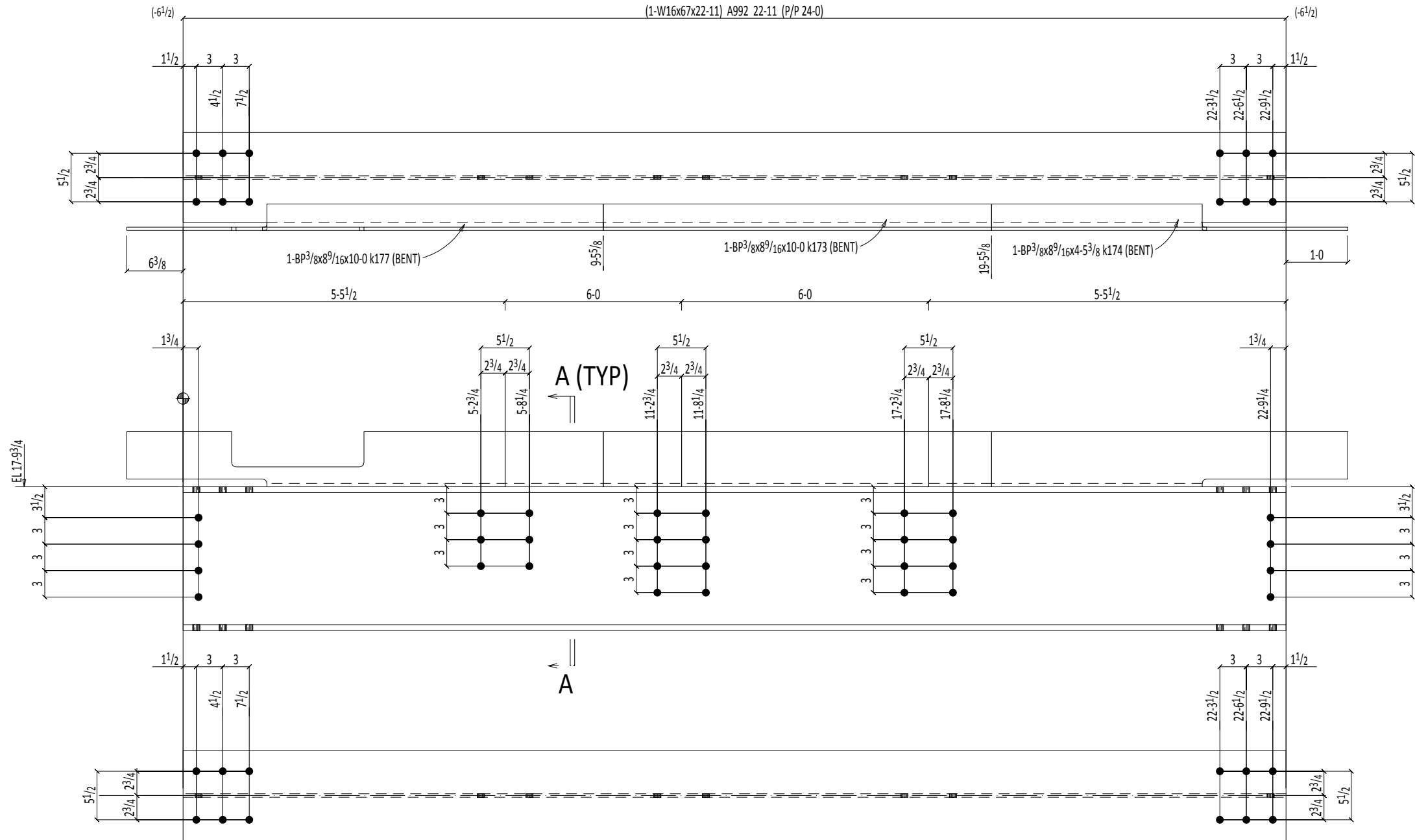
W	$20^{11/16}x^{3/8}$
F	$6^{1/2}x^{7/16}$
K	$1^{1/8}x^{7/8}$

SAMPLE DRAWING: BEAM DETAIL

ALL WELDING TO BE
DONE IN ACCORDANCE
WITH ANSI/AWS D1.1,
STRUCTURAL WELDING
CODE - STEEL, OF LATEST
ISSUE, UNLESS NOTED
OTHERWISE.

REV	DESCRIPTION	MADE	CKD DATE

JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH./ENGINEER			
BOLTS	UNLESS NOTED	HOLES	UNLESS NOTED
DR. BY:	AESS CAT. ---		
CH. BY:	SHOP PAINT		
DATE	JOB NO.:		SHT. NO.: B13002 



BILL OF MATERIAL

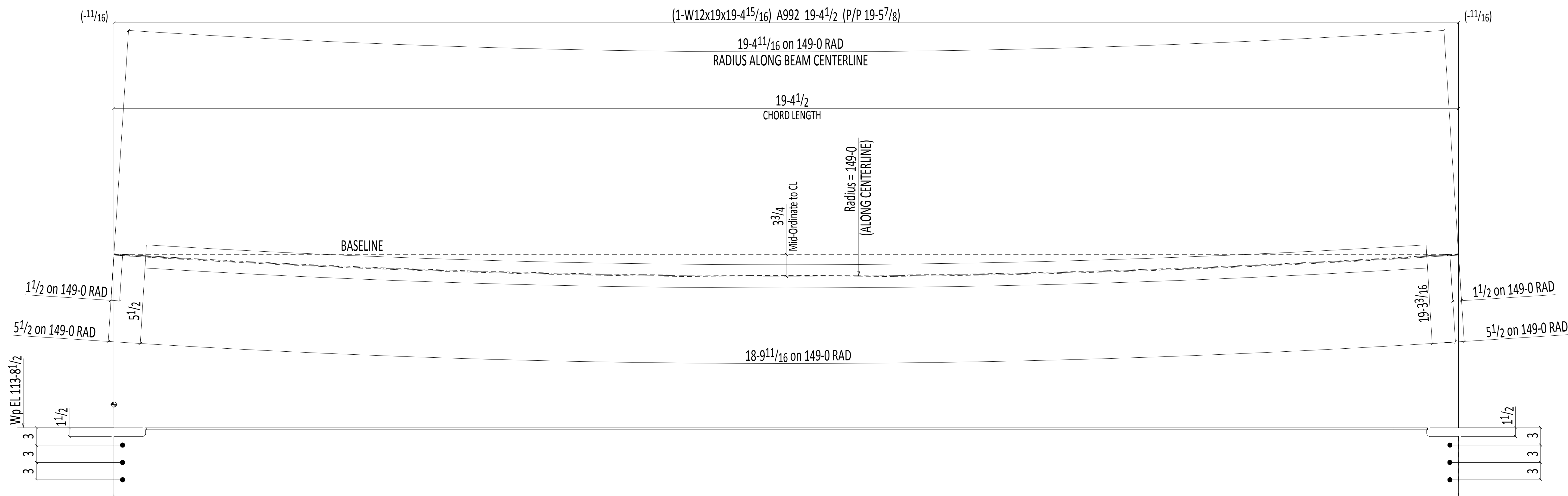
	QTY	PC	MINOR	DESCRIPTION	LENGTH		STEEL	WEIGHT	ADVANCE
SEQ	TOTAL	MARK	MARK				GRADE	TOTAL	MILL #
34	ONE	B34003		BEAM				1803	69-6
	1		B34003	W16x67	22	11	A992	1535	
	1		k173	BP ³ / ₈ x8 ⁹ / ₁₆	10	0	BENT	A36	109
	1		k177	BP ³ / ₈ x8 ⁹ / ₁₆	10	0	BENT	A36	109
	1		k174	BP ³ / ₈ x8 ⁹ / ₁₆	4	5 ³ / ₈	BENT	A36	49
				FIELD BOLTS					
	12			3/4 Dia A325N	0	3	+1HD WASH		
	4			3/4 Dia A325N	0	2 1/2	+2HD WASH		
	12			3/4 Dia A325N	0	2 1/4	+1HD WASH		
	4			3/4 Dia A325N	0	2 1/4	+2HD WASH		

ONE BEAM B34003

W 16⁵/₁₆x3³/₈
F 10³/₁₆x1¹¹/₁₆
K 1⁹/₁₆x1¹/₈

SAMPLE DRAWING: BEAM DETAIL

ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.						ARCH./ENGINEER				
						BOLTS		UNLESS NOTED	HOLES	UNLESS NOTED
						DR. BY:		AESS CAT.		
						CH. BY:		SHOP PAINT		
						DATE				
	REV	DESCRIPTION			MADE	CKD	DATE	JOB NO.:		SHT. NO.: B34003 



ONE BEAM 4058B1

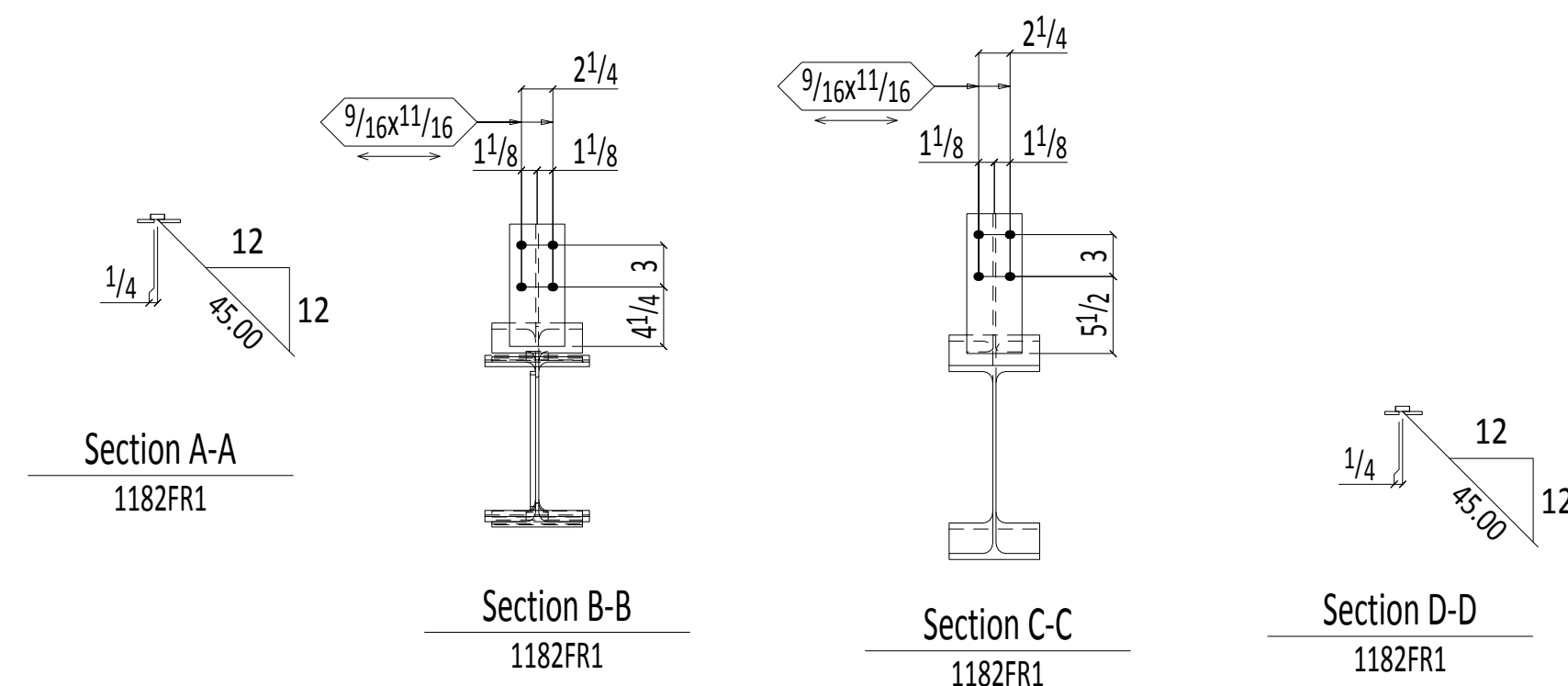
LEFT END LOADS:	W	$12\frac{3}{16} \times \frac{1}{4}$	RIGHT END LOADS:
SHEAR: 15.0 KIPS	F	$4 \times \frac{3}{8}$	SHEAR: 15.0 KIPS
	K	$\frac{7}{8} \times \frac{5}{8}$	
LEFT END LOAD CAPACITIES:			RIGHT END LOAD CAPACITIES:
SHEAR: 32.5 KIPS			SHEAR: 32.5 KIPS

[illegible]

Total weight : 369

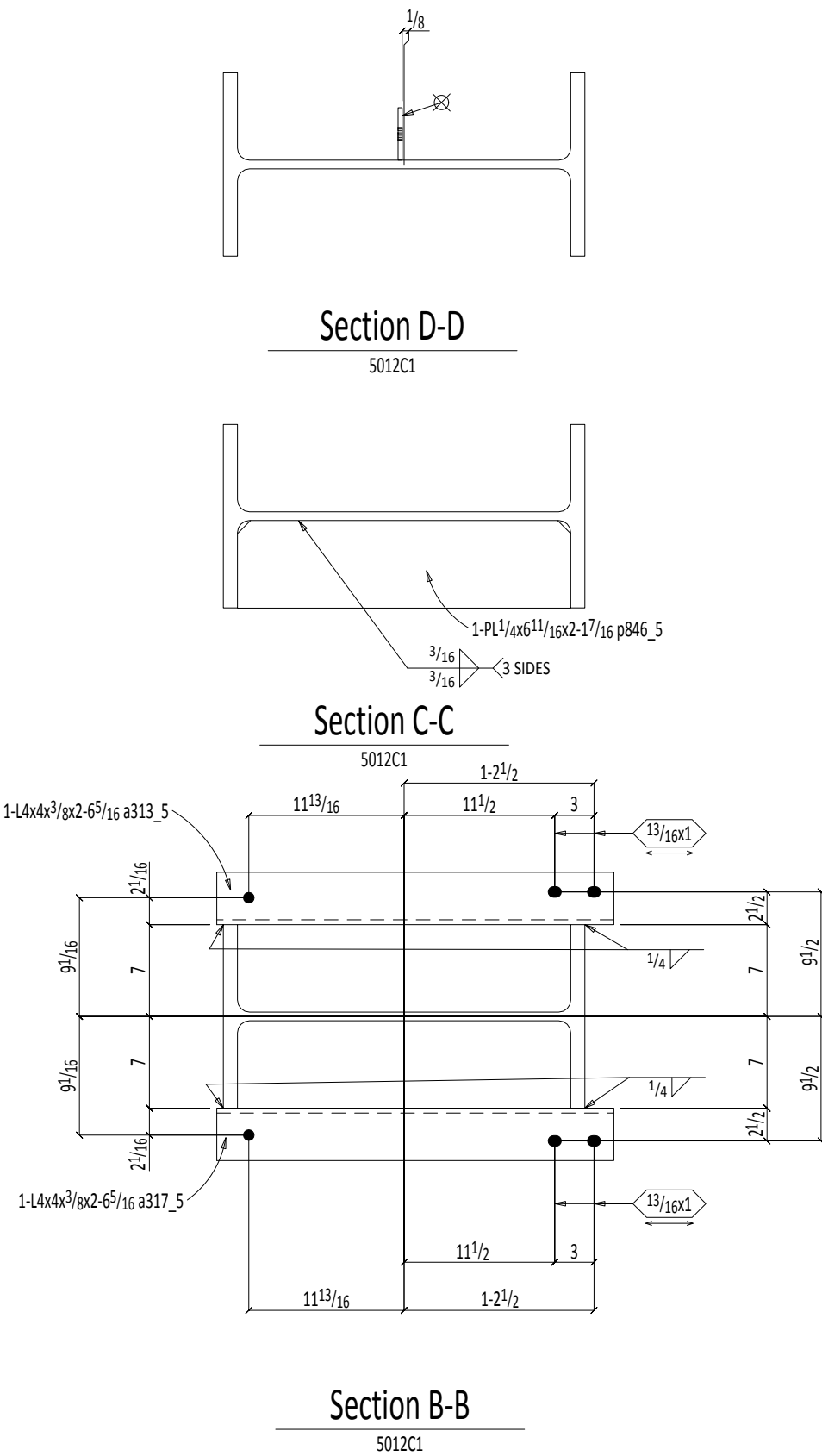
SAMPLE DRAWING: BEAM DETAIL

PROJECT		APPROVAL/FABRICATION/REVISION			
LOCATION					
CONTRACTOR					
ARCHITECT					
REFERENCE	E4000	REV	DATE	DESCRIPTION	
HOLES 13 1/16" DIA. (UNLESS NOTED)	PAINT STANDARD SHOP GRAY PRIMER	DRAWN	CHECKED	SHEET #	JOB #
	SURFACE PREP. SSPC-SP3				

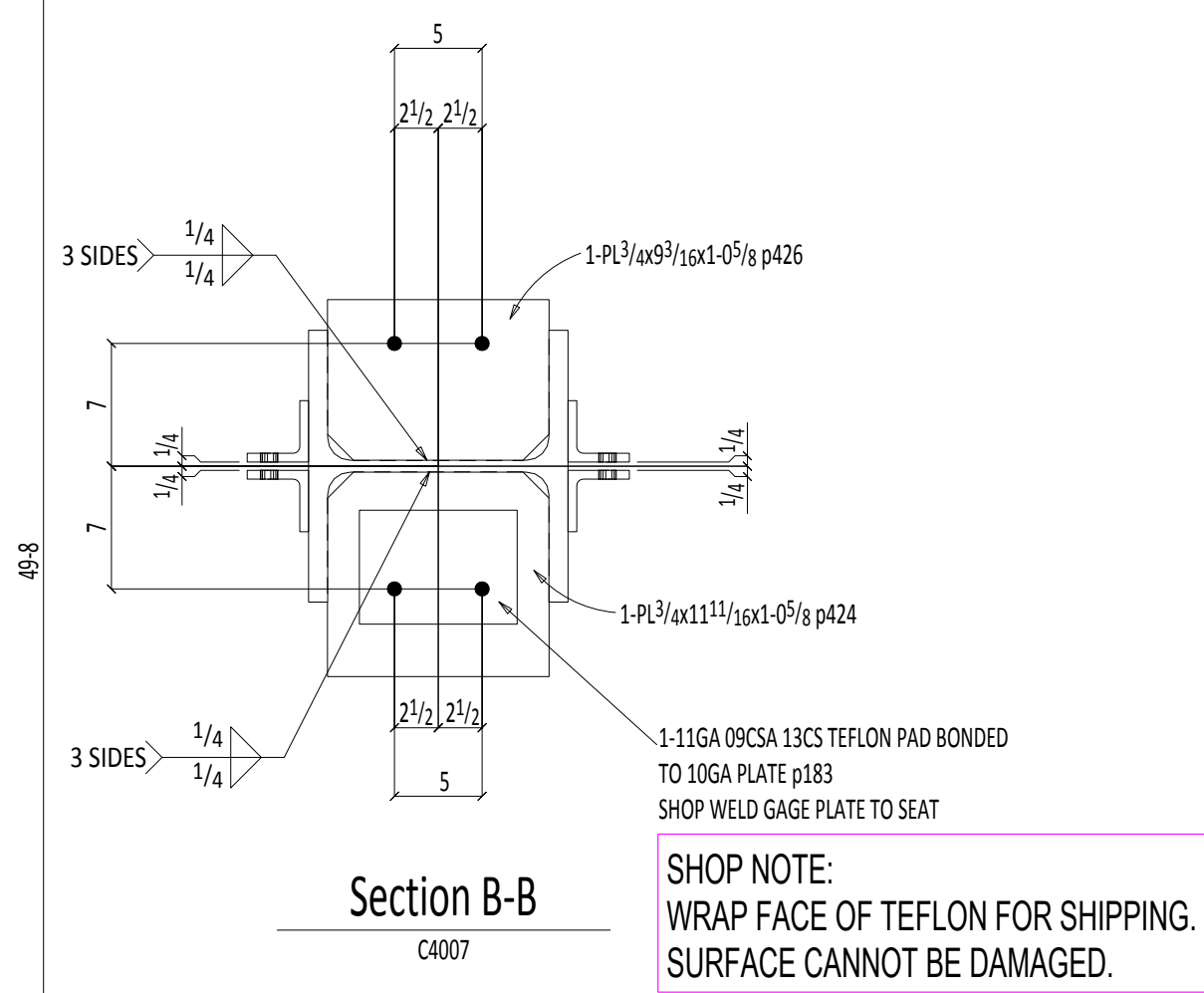


SAMPLE DRAWING: CRANK BEAM DETAIL

PROJECT		APPROVAL/FABRICATION/REVISION			
LOCATION					
CONTRACTOR					
ARCHITECT					
REFERENCE		REV	DATE	DESCRIPTION	
HOLES 13/16" DIA. (UNLESS NOTED)	PAINT	92G14 GRAY PRIMER	DRAWN	CHECKED	SHEET #
	SURFACE PREP: SSPC-SP2				JOB #



SHOP NOTES:			
1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE. 2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36. 3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A53 GRADE B. 4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B (F _y =46ksi). 5. ALL WELDING TO BE DONE IN ACCORDANCE WITH AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.			
SENT APPROVAL	RECEIVED APPROVAL		
12-27-2016			
SHOP	CONTRACTOR		
06-15-2017		JOB NAME:	
ERECTOR	ARCHITECT	LOCATION:	
		CUSTOMER:	
		ARCH/ENGINEER	
REVISONS		BOLTS	3/4" DIA A325N
X	DR. BY:	UNLESS NOTED	HOLES 13/16" DIA
X		SURFACE PREP.	SSPC-SP3
X	CH. BY:	SHOP PAINT	STD SHOP PRIMER
X	DATE		
B		JOB NO.:	SHT. NO. : 5012



Total weight : 8058

 INDICATES NO PAINT 2" AROUND OPEN HOLES

JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH/ENGINEER			
BOLTS		UNLESS NOTED	HOLDS UNLESS NOTED
DR. BY:	ACCESS CAT.	---	
CH. BY:	SHOP PAINT		
DATE	JOB NO.:	SHT. NO.:	C4007 

SAMPLE DRAWING: COLUMN DETAIL

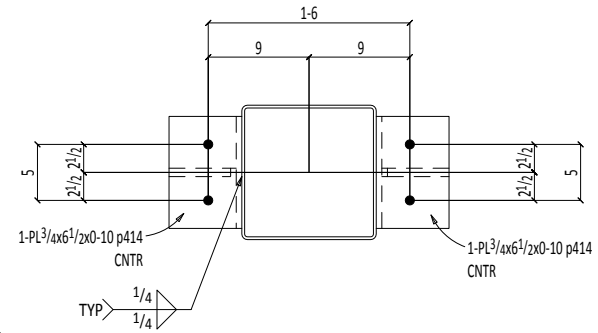
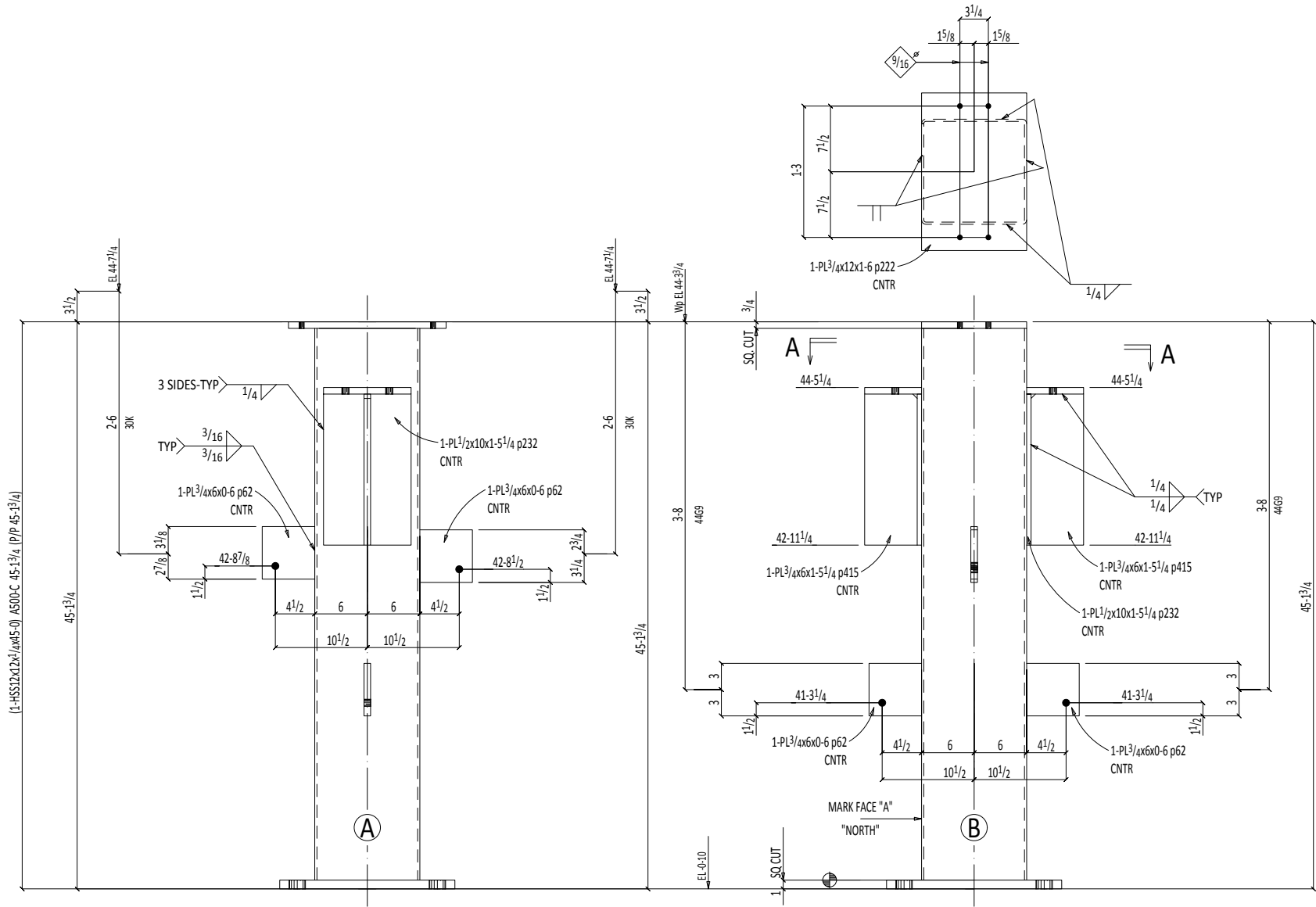
ONE COLUMN C4007

AT GRID:
G & 24

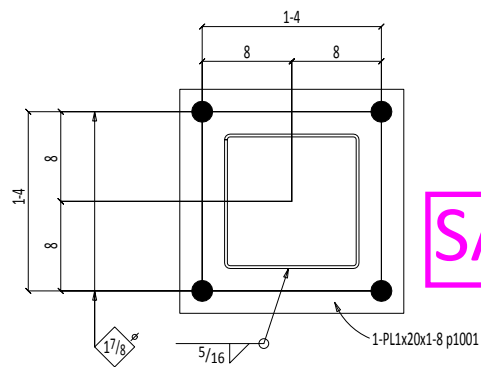
W	$14^{13}/16 \times 11/16$
F	$15^{1/2} \times 1^{1/16}$
K	$2^3/8 \times 1^5/8$

ALL WELDING TO BE
DONE IN ACCORDANCE
WITH ANSI/AWS D1.1,
STRUCTURAL WELDING
CODE - STEEL, OF LATEST
ISSUE, UNLESS NOTED
OTHERWISE.

[illegible]



Section A-A
C1009



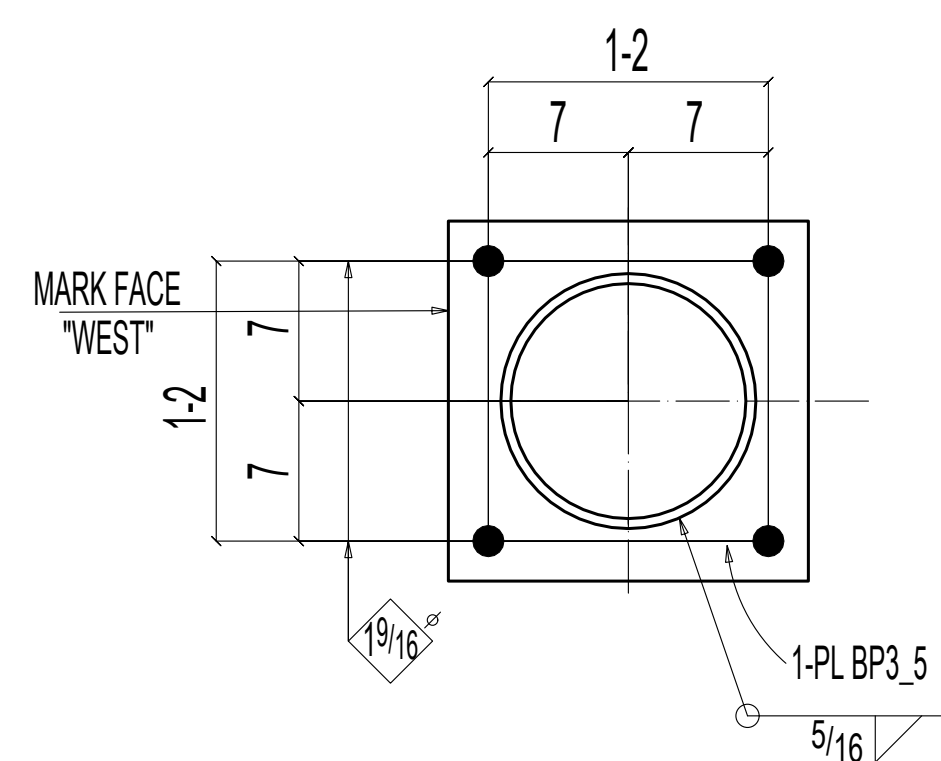
ONE COLUMN C1009

AT GRID:
K & 31

ALL WELDING TO BE
DONE IN ACCORDANCE
WITH ANSI/AWS D1.1,
STRUCTURAL WELDING
CODE - STEEL, OF LATEST
ISSUE, UNLESS NOTED
OTHERWISE.

REV	DESCRIPTION	MADE	CKD	DATE
0				
A				

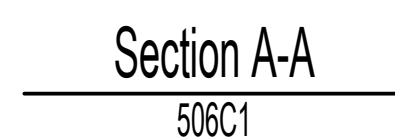
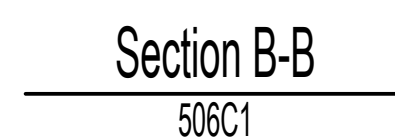
JOB NAME:			
LOCATION:			
CUSTOMER:			
ARCH./ENGINEER			
BOLTS		UNLESS NOTED	HOLES UNLESS NOTED
DR. BY:		AESS CAT. ---	
CH. BY:		SHOP PAINT	
DATE		JOB NO.:	SHT. NO.: C1009 



ONE COLUMN 506C1

AT GRID:
4 & R

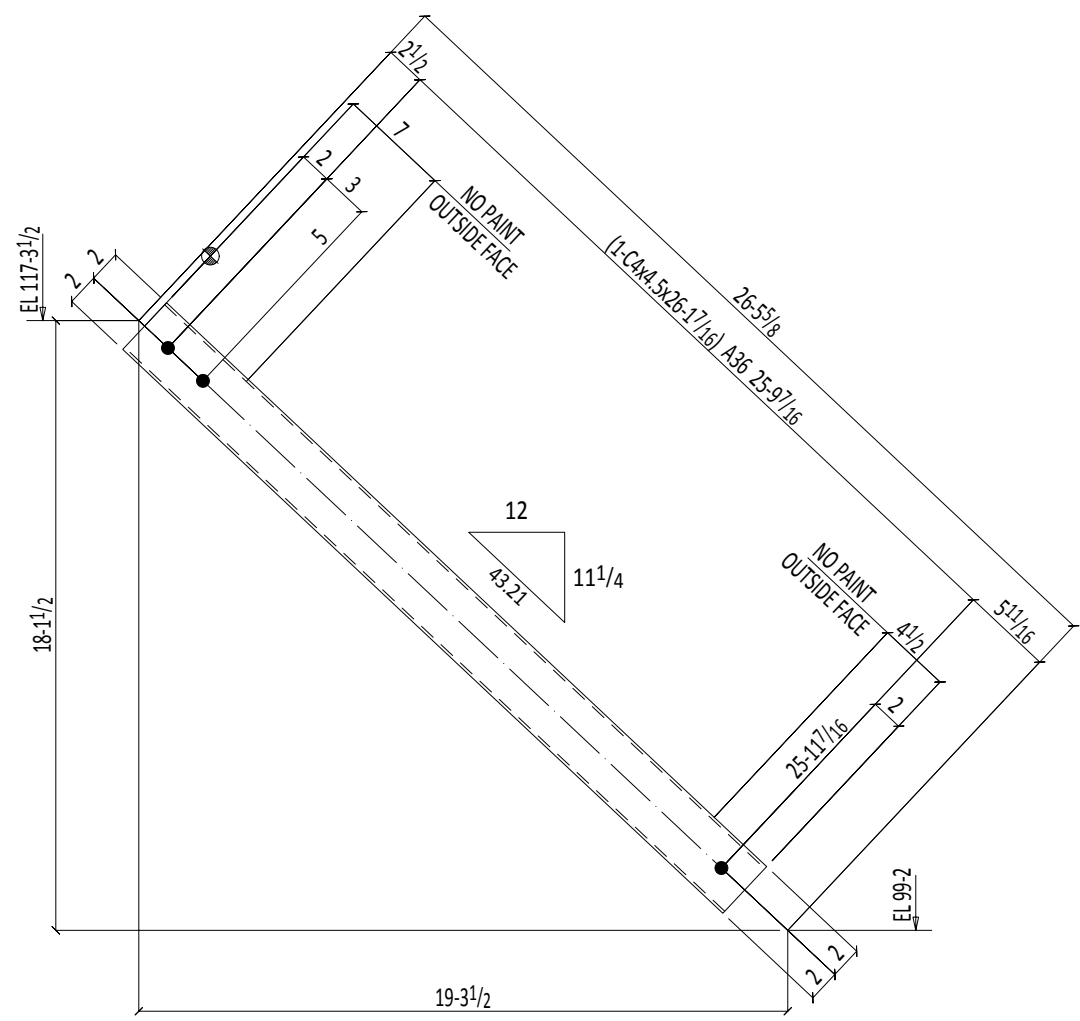
AESS CAT. : AESS-2

[illegible]

FIELD BOLTS							
AESS CAT.	AESS-2(U.N.O.)						
CLEANING	SSPC-SP6						
PAINT	STD. SHOP PRIMER- 2 MILS DFT						
MATERIAL	A500B (U.N.O.)						
HOLES	13/16 HOLES (U.N.O.)						
ELECTRODES	E70XX LOW HYDROGEN						
TOTAL WEIGHT		NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
DIAG. REF #	E700	REVISIONS					

PROD. CODE 20	
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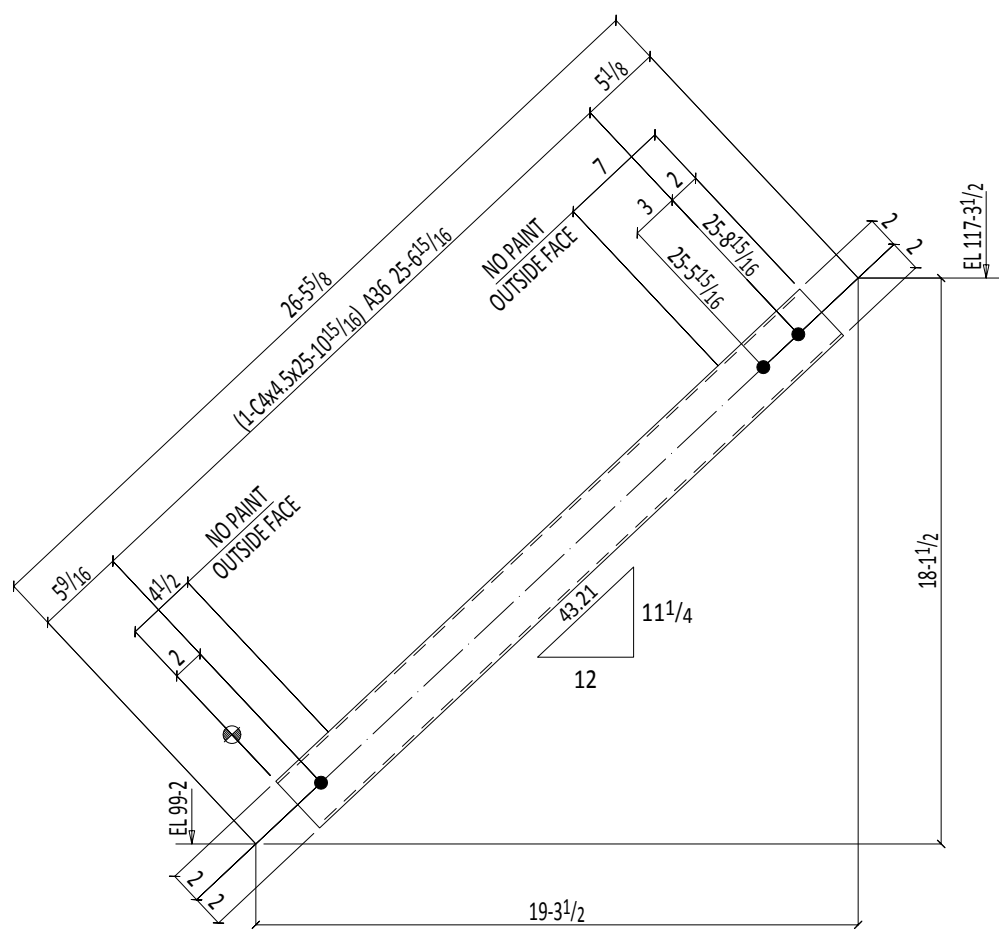
DRAFTER		CUSTOMER:	CONTRACT NO
DATE			
CHECKED		STRUCTURE:	DWG NO
DATE			506



ONE VERTICAL BRACE 5065VB1

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

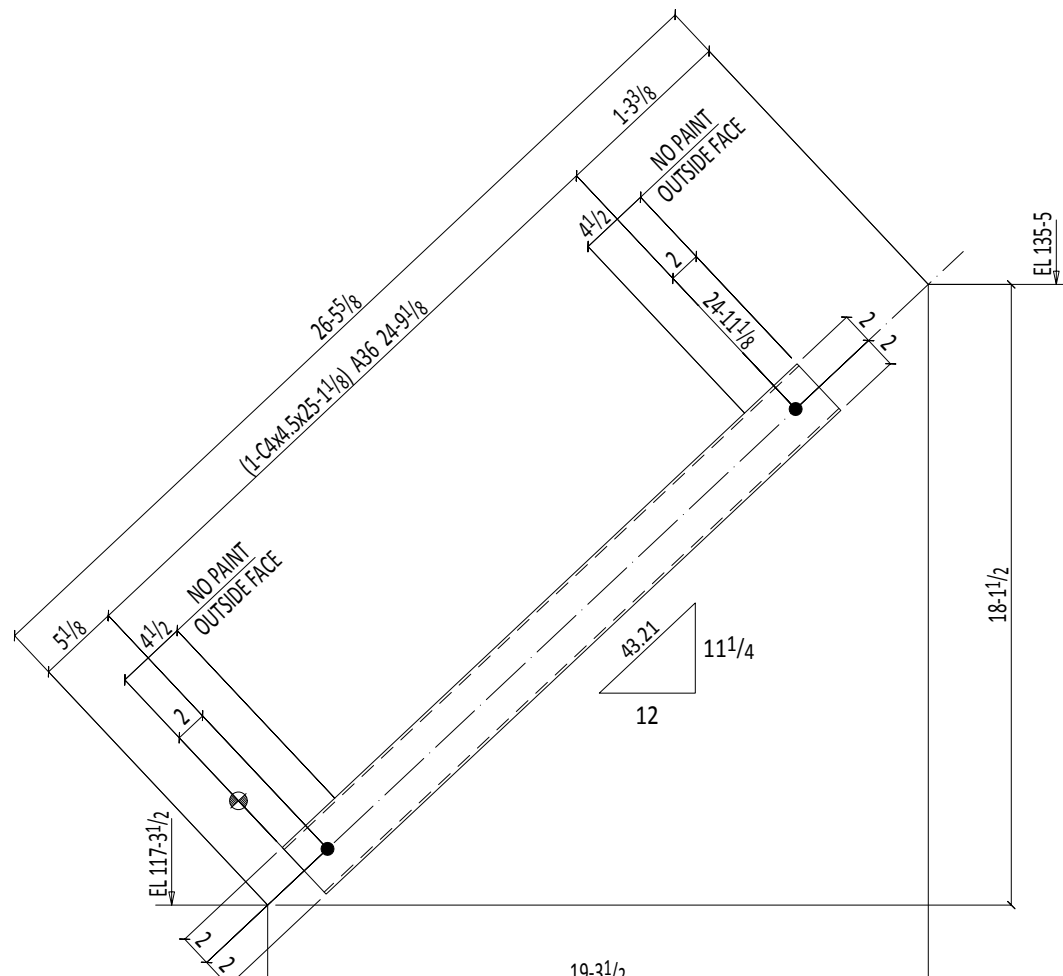
SHOP NOTE:
TOE DIRECTION FAR SIDE



ONE VERTICAL BRACE 5065VB2

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

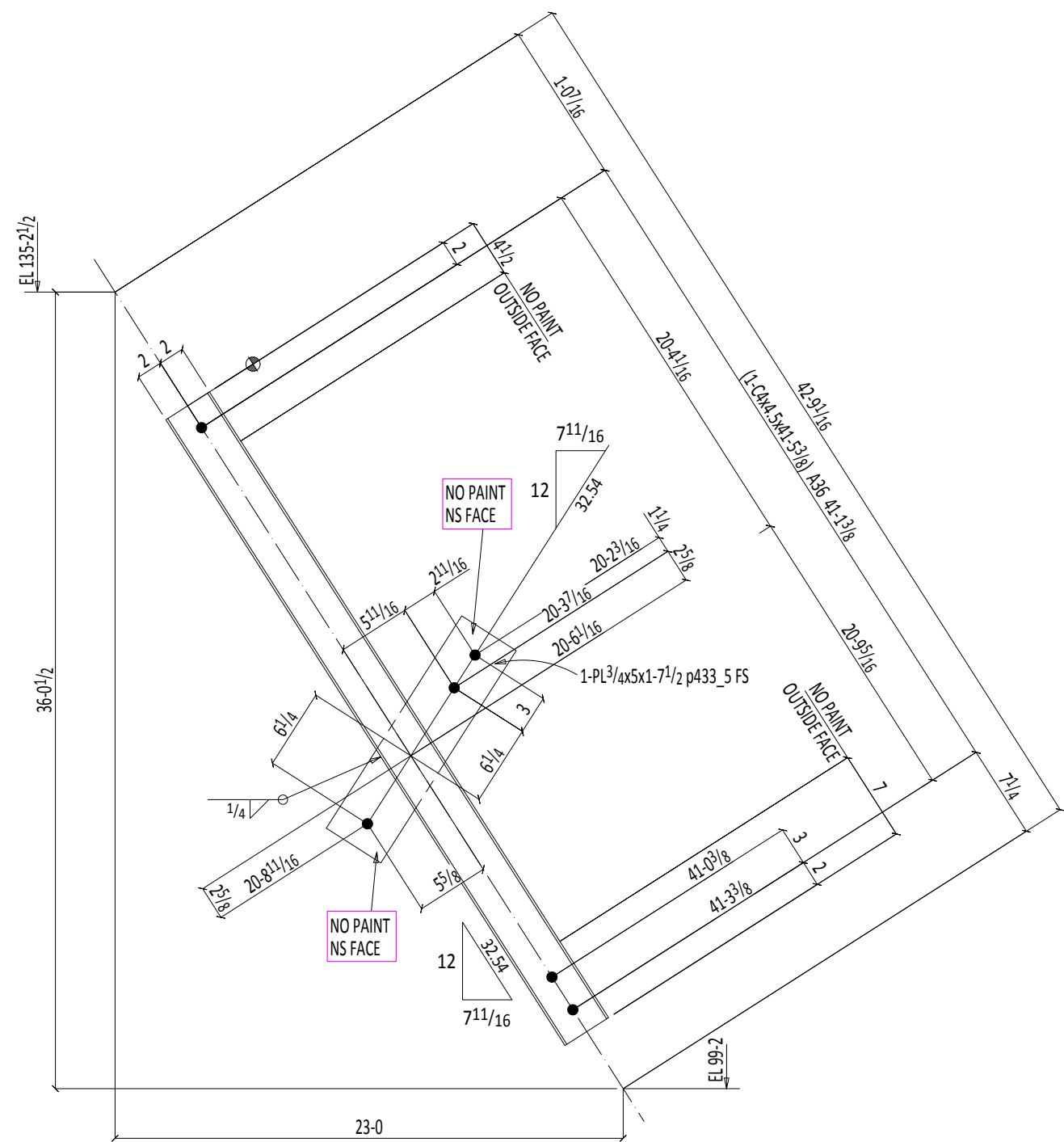
SHOP NOTE:
TOE DIRECTION FAR SIDE



ONE VERTICAL BRACE 5065VB3

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

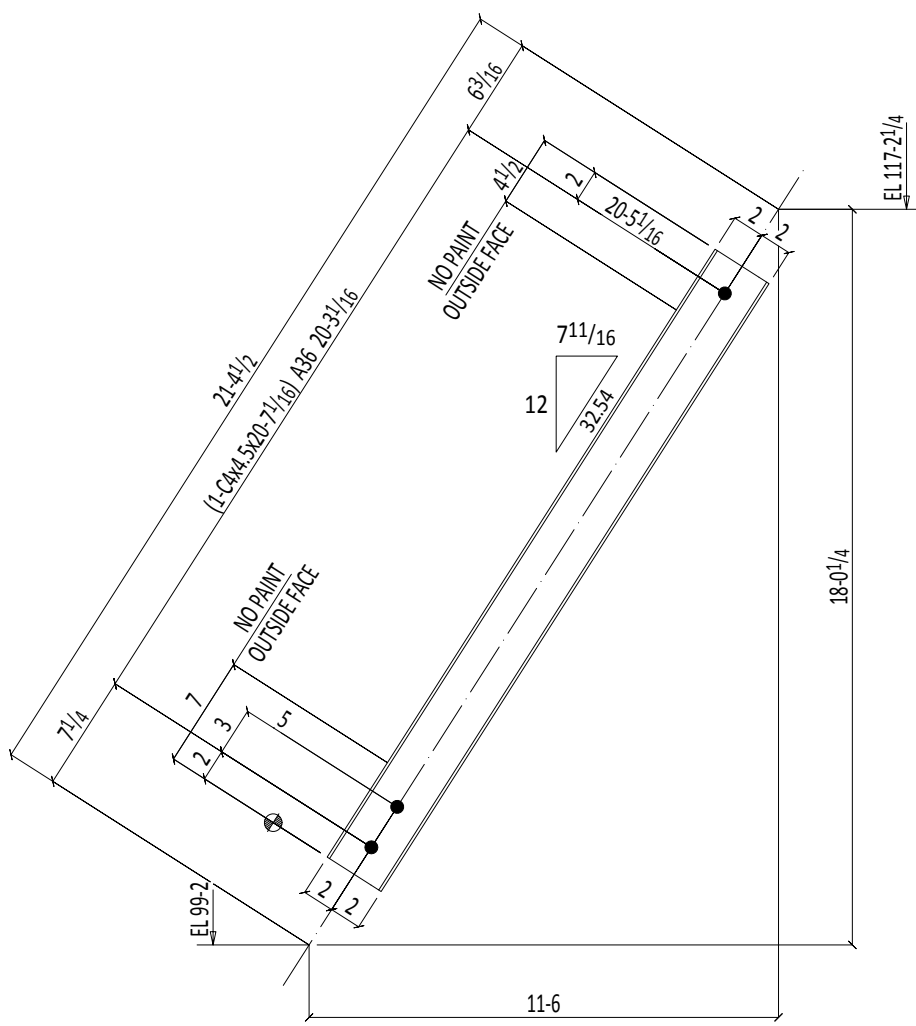
SHOP NOTE:
TOE DIRECTION FAR SIDE



ONE VERTICAL BRACE 5065VB4

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

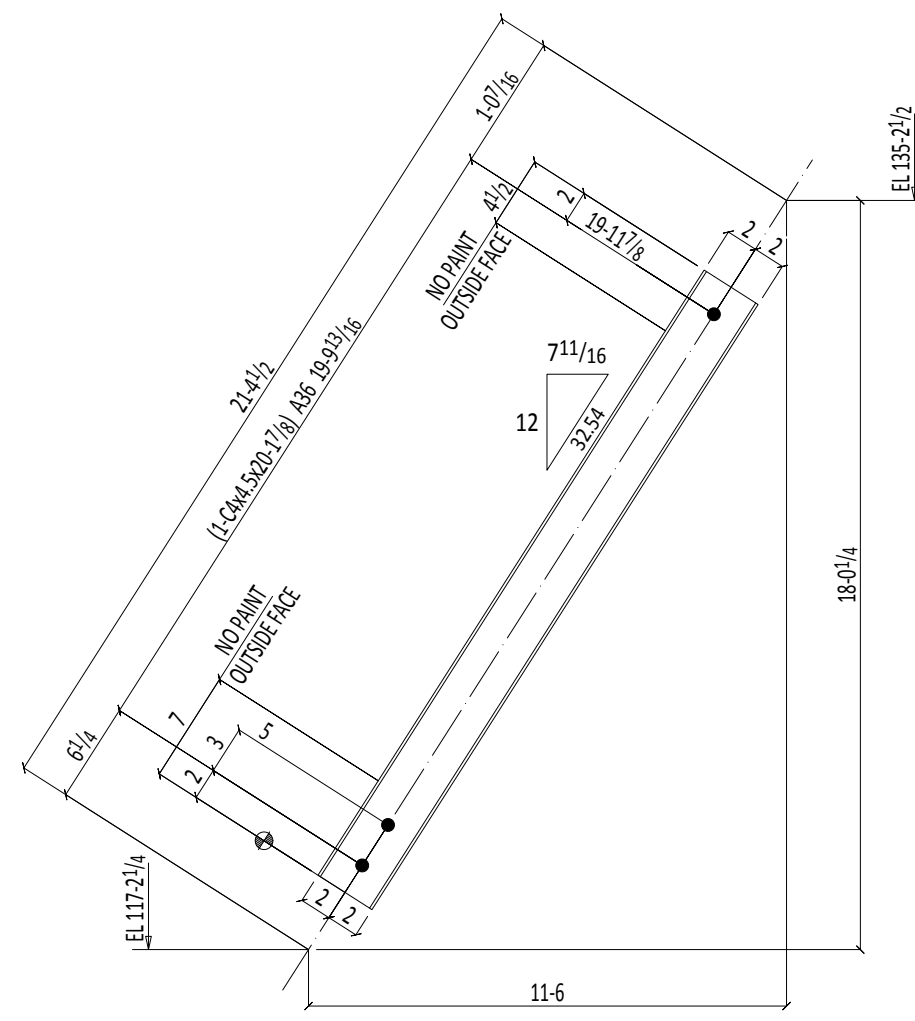
SHOP NOTE:
TOE DIRECTION NEAR SIDE



ONE VERTICAL BRACE 5065VB5

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

SHOP NOTE:
TOE DIRECTION NEAR SIDE



ONE VERTICAL BRACE 5065VB6

W | 4x2/8
F | 19/16x9/16
K | 3/4x1/2

SHOP NOTE:
TOE DIRECTION NEAR SIDE

SAMPLE DRAWING: CHANNEL VERTICAL BRACE DETAILS

BILL OF MATERIAL

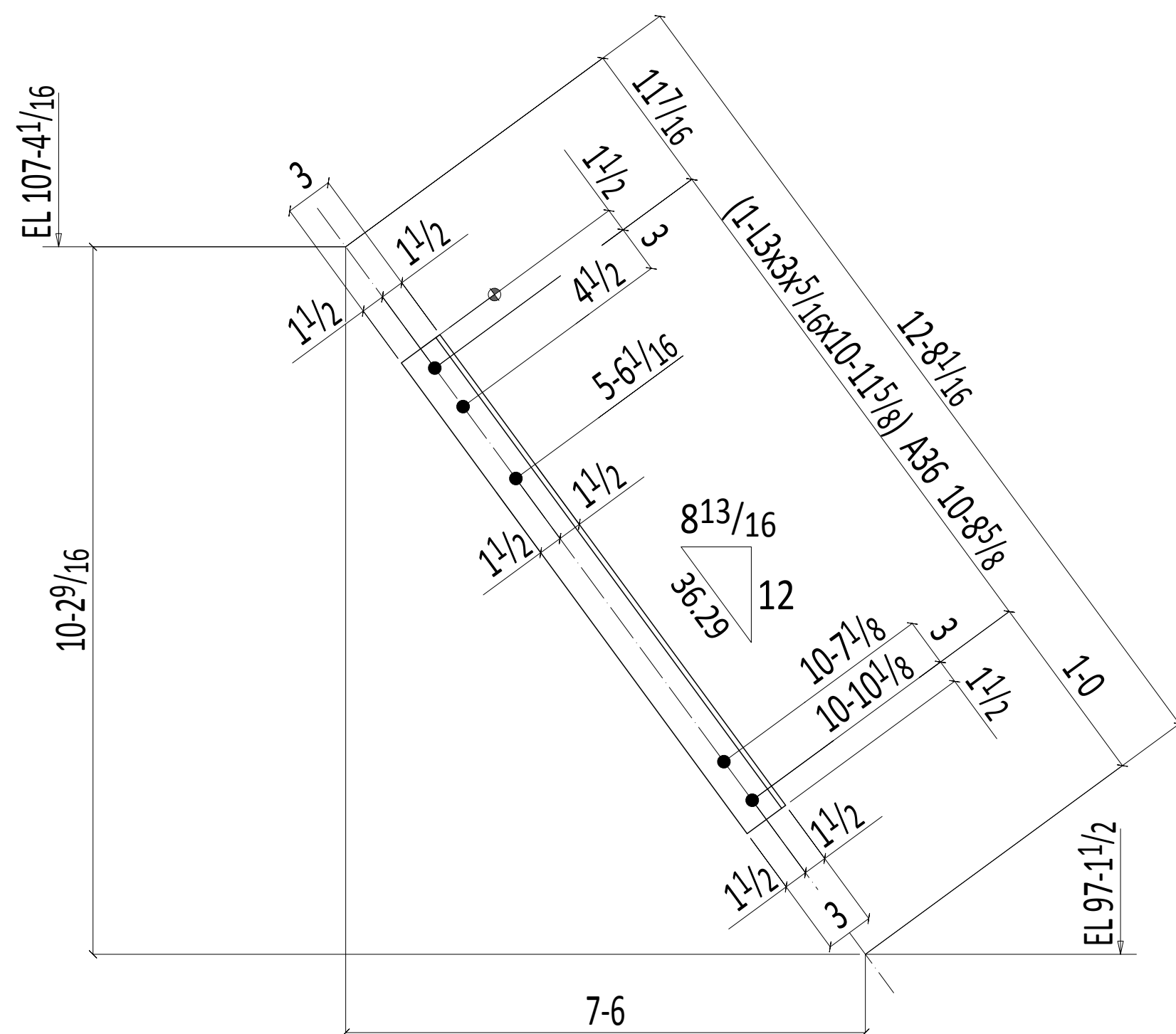
SEQ	QTY	PC	MINOR	DESCRIPTION	LENGTH	REMARKS	STEEL	WEIGHT	ADVANCE
	TOTAL	MARK	MARK				GRADE	TOTAL	MILL #
5	ONE	5065VB1		VERTICAL BRACE				118	30-31
	1		5065VB1	C4x4.5	26 17/16		A36	118	
				FIELD BOLTS					
	2			3/4 Dia A307	0 2 1/4				
5	ONE	5065VB2		VERTICAL BRACE				117	30-36
	1		5065VB2	C4x4.5	25 10 15/16		A36	117	
				FIELD BOLTS					
	1			3/4 Dia A307	0 2 1/4				
	1			3/4 Dia A307	0 2				
5	ONE	5065VB3		VERTICAL BRACE				113	
	1		5065VB3	C4x4.5	25 1 1/8		A36	113	
				FIELD BOLTS					
	2			3/4 Dia A307	0 2 1/4				
5	ONE	5065VB4		VERTICAL BRACE				207	30-33
	1		5065VB4	C4x4.5	41 5 3/8		A36	187	
	1		p433_5	PL 3/4x5	1 7 1/2		A36	21	
				FIELD BOLTS					
	2			3/4 Dia A307	0 2				
5	ONE	5065VB5		VERTICAL BRACE				93	30-41
	1		5065VB5	C4x4.5	20 7 1/16		A36	93	
				FIELD BOLTS					
	2			3/4 Dia A307	0 2				
5	ONE	5065VB6		VERTICAL BRACE				91	30-42
	1		5065VB6	C4x4.5	20 17/8		A36	91	
				FIELD BOLTS					
	2			3/4 Dia A307	0 2				

Total weight : 738

SHOP NOTES:

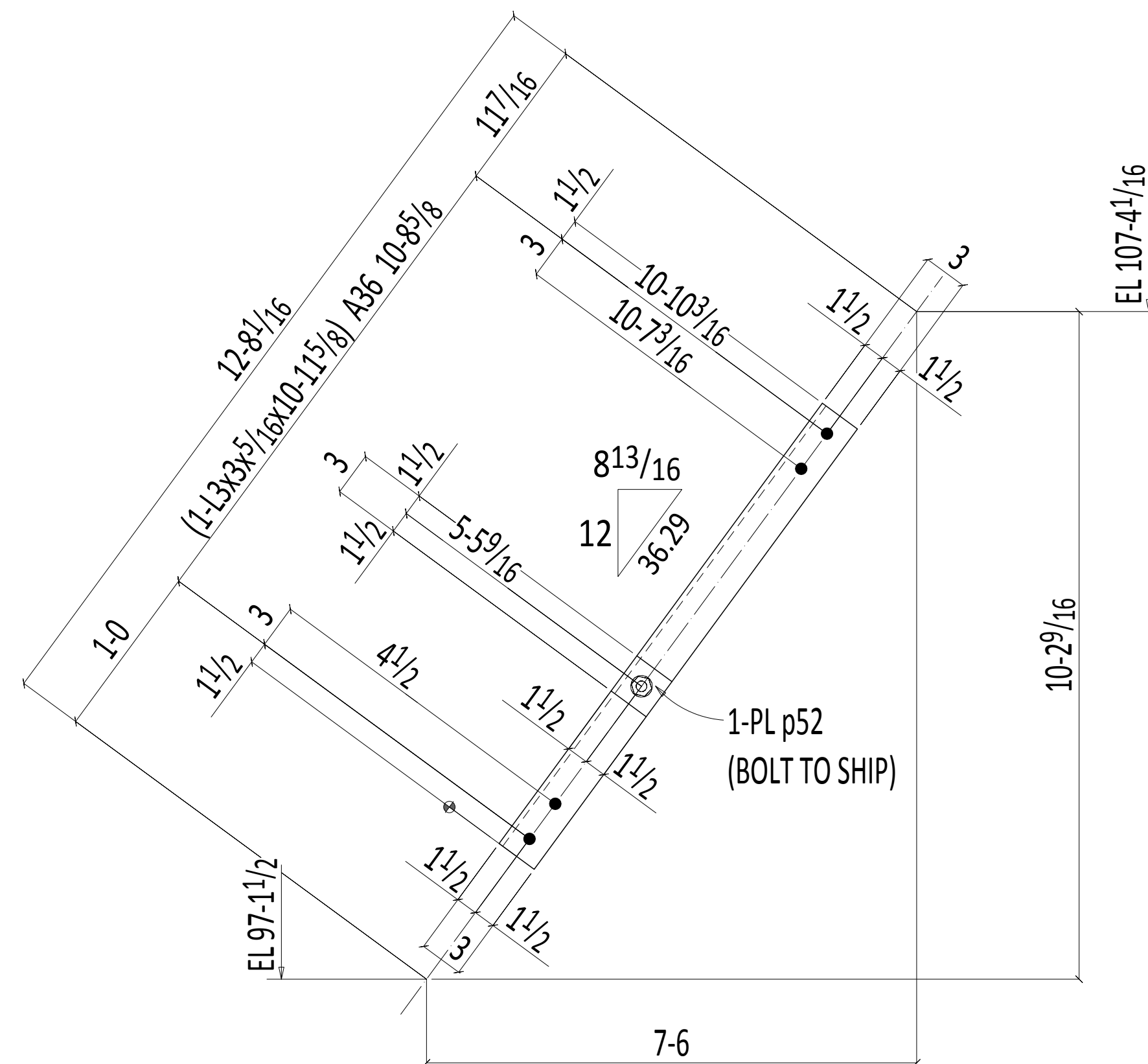
1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE.
2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36.
3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A53 GRADE B.
4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B (Fy=46ksi).
5. ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

SENT APPROVAL	RECEIVED APPROVAL	
SHOP	CONTRACTOR	
ERECTOR	ARCHITECT	
		JOB NAME:
		LOCATION:
		CUSTOMER:
		ARCH/ENGINEER
		REVISIONS
		BOLTS 3/4" DIA A325N
		UNLESS NOTED
		HOLES 13/16"DIA
		UNLESS NOTED
		DR. BY:
		SURFACE PREP: SSPC-SP3
		CH. BY:
		SHOP PAINT: STD SHOP PRIMER
		DATE
		JOB NO.:
		SHT. - NO. : 5065 0



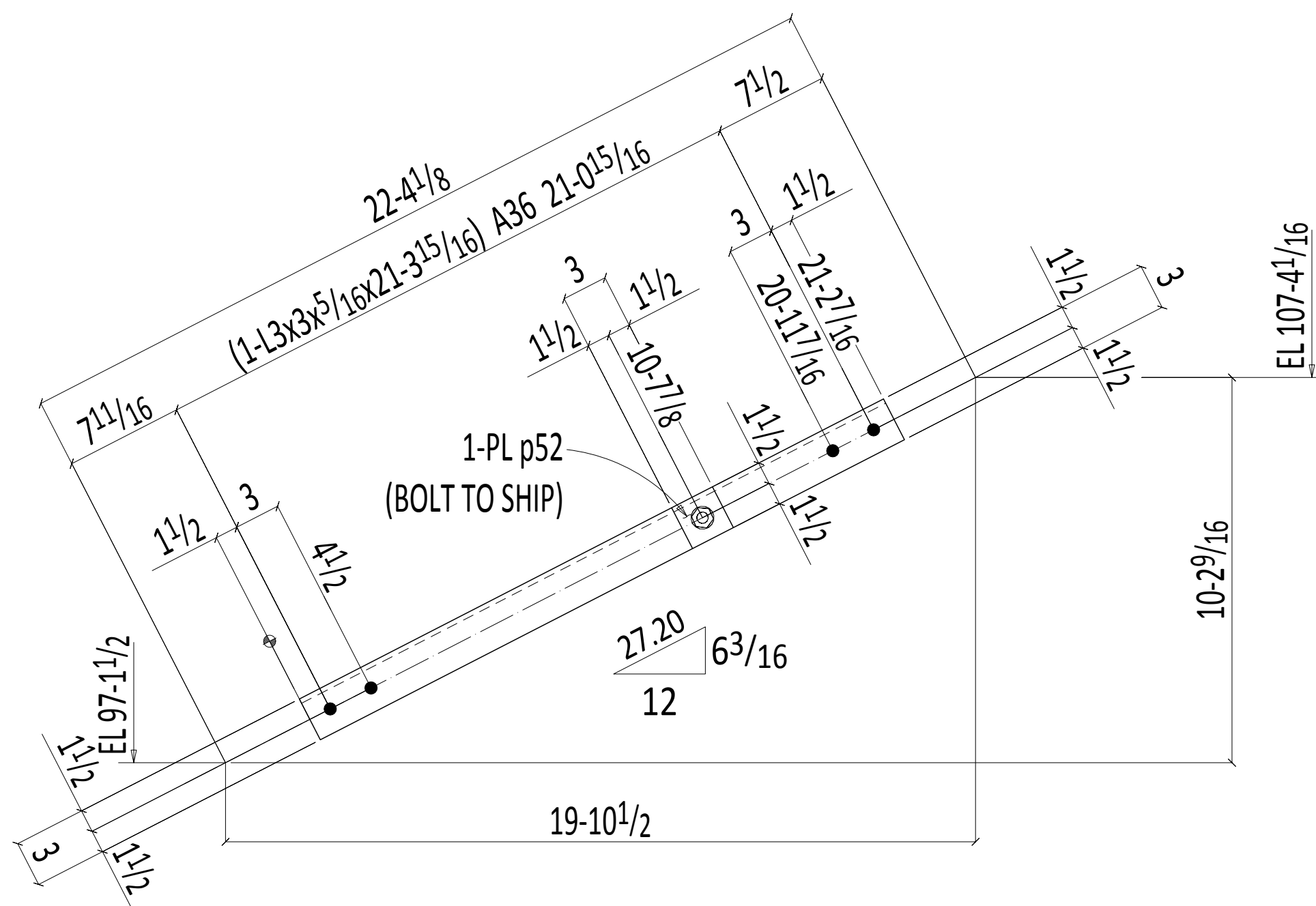
ONE VERTICAL BRACE 123VB1

SHOP NOTE:
TOE DIRECTION NEAR SIDE



ONE VERTICAL BRACE 123VB2

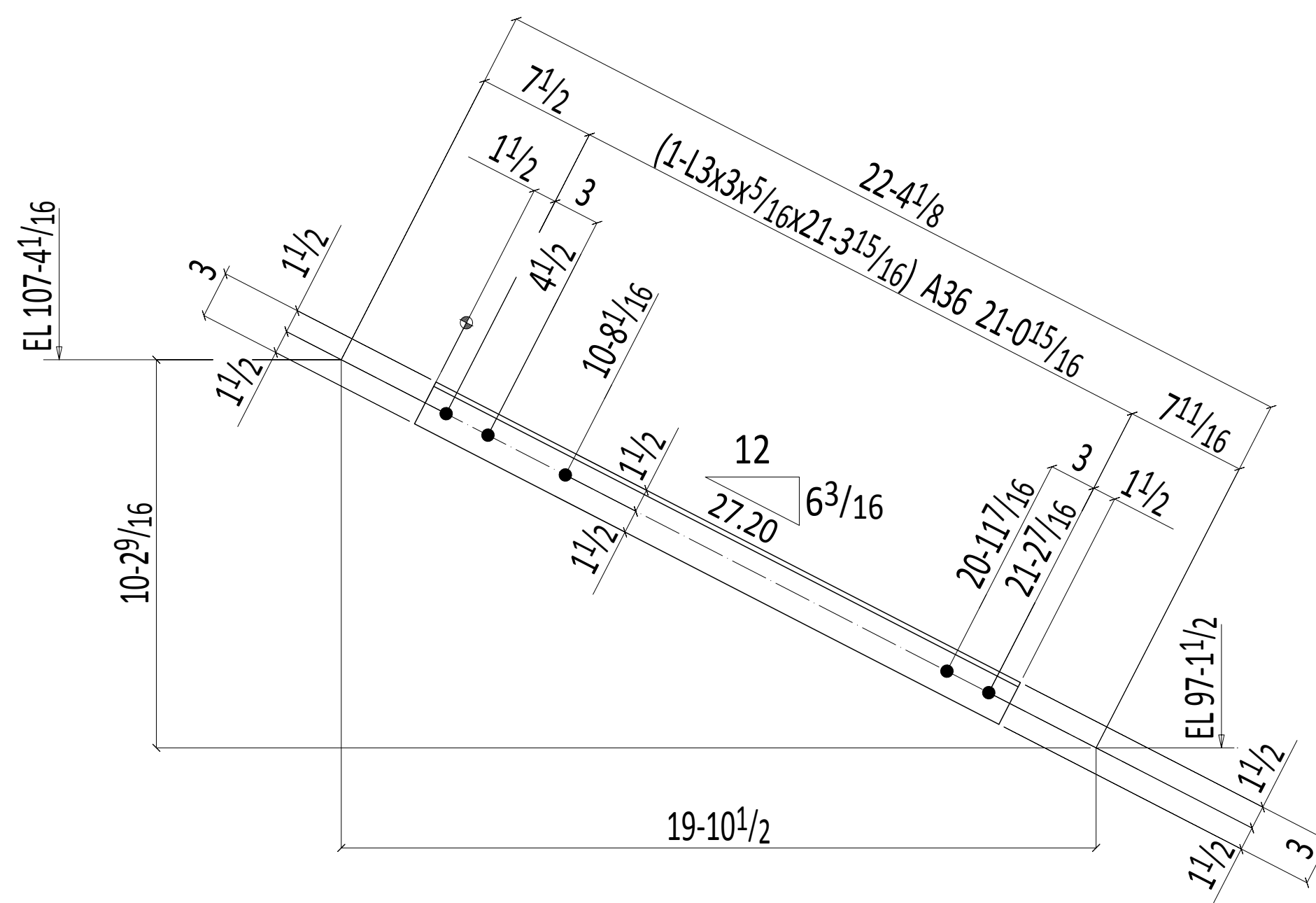
SHOP NOTE:
TOE DIRECTION FAR SIDE
SHOP BOLTS:
1-3/4Diax2 1/4 A325



ONE VERTICAL BRACE 123VB3

SHOP NOTE:
TOE DIRECTION FAR SIDE

SHOP BOLTS:
1-3/4Diax2 1/4 A325



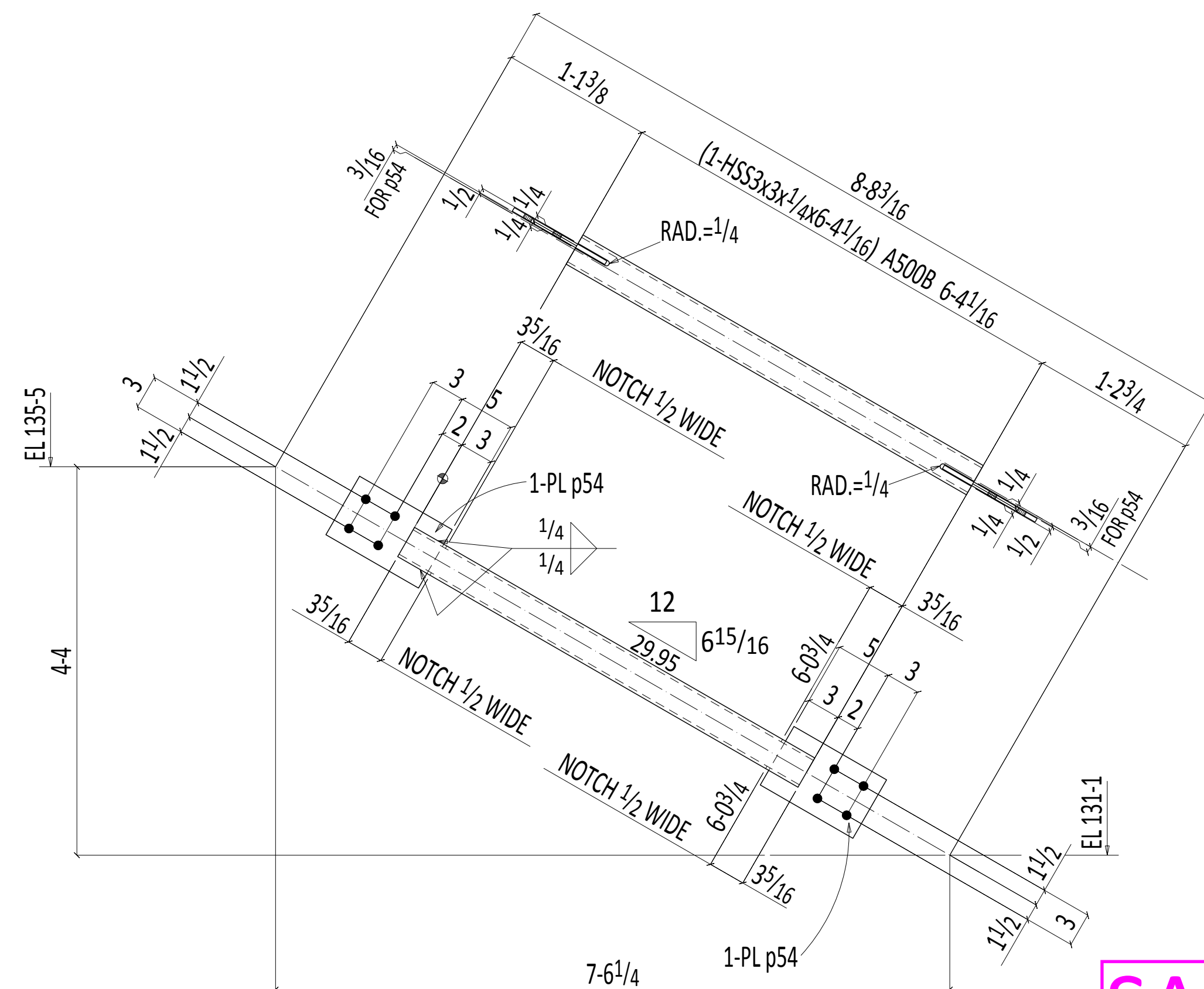
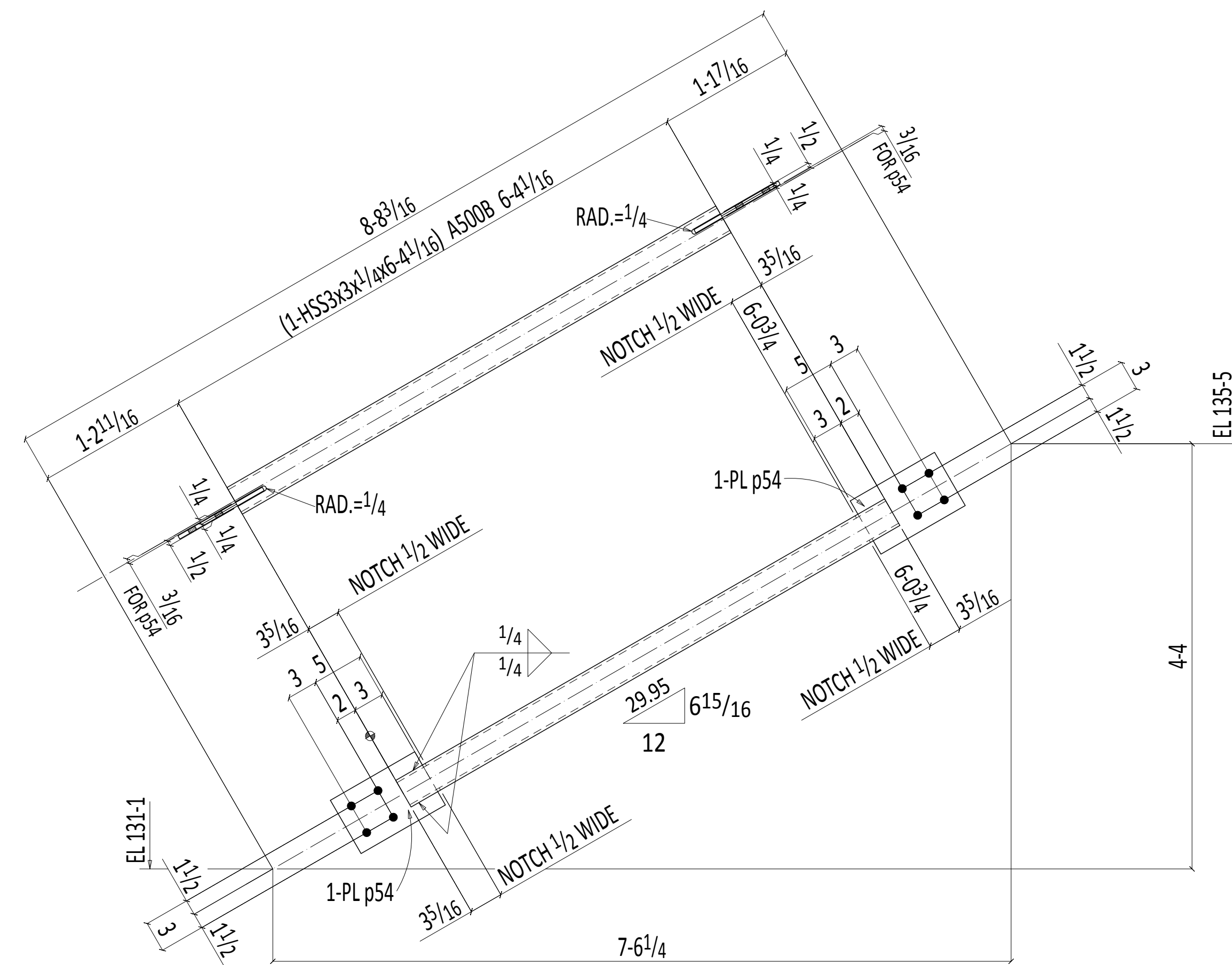
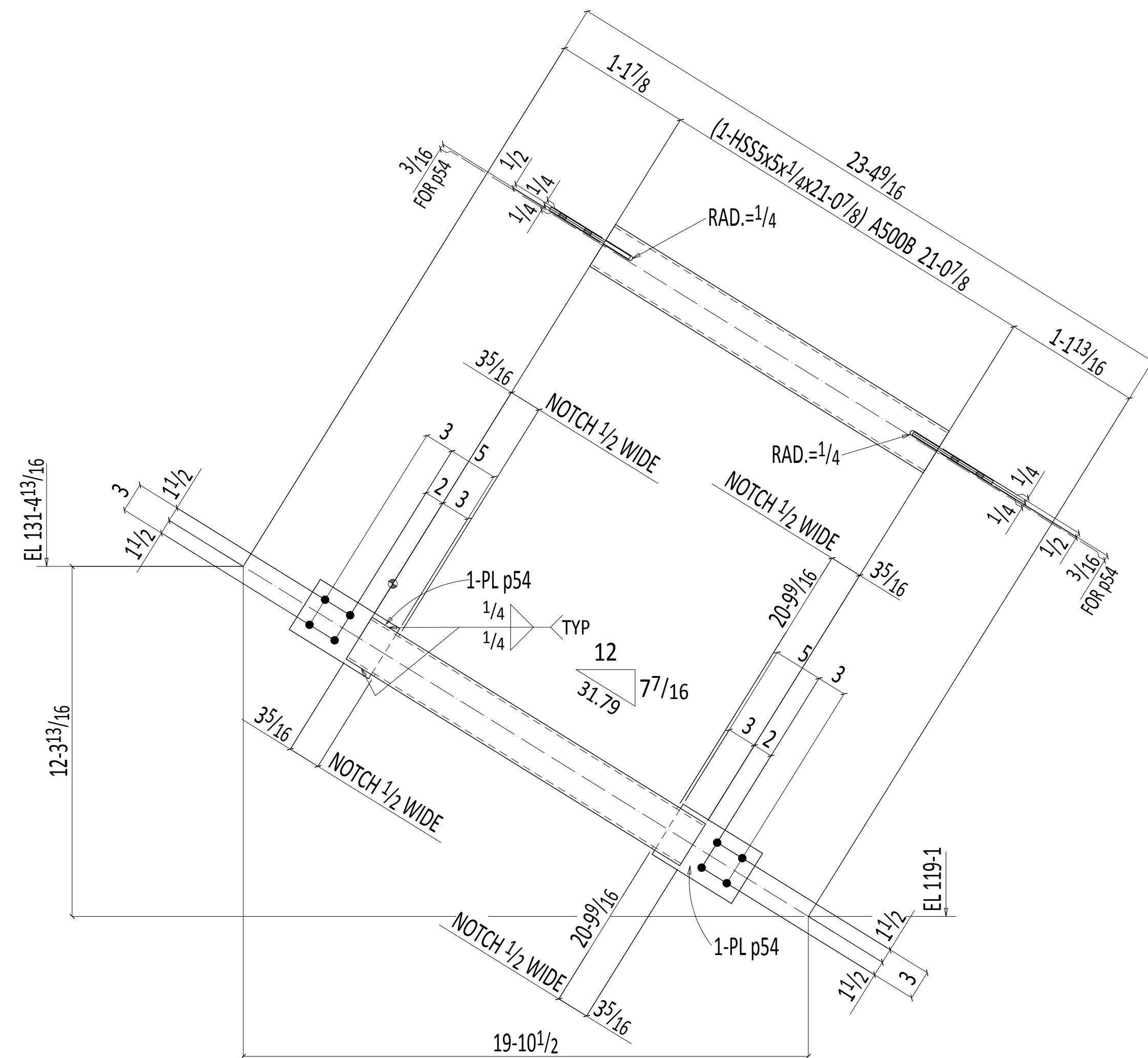
ONE VERTICAL BRACE 123VB4

SHOP NOTE:
TOE DIRECTION NEAR SIDE

[illegible]

Total weight : 398

PROJECT		APPROVAL/FABRICATION/REVISION											
LOCATION													
CONTRACTOR													
ARCHITECT													
REFERENCE													
				REV		DATE		DESCRIPTION					
HOLES		PAINT		STD. SHOP PRIMER		DRAWN		CHECKED		SHEET #		JOB #	
13 1/2" DIA.		SURFACE PREP:		SSPC-SP2						123			
UNLESS NOTED													



SAMPLE DRAWING: HSS VERTICAL BRACE DETAILS

[illegible]

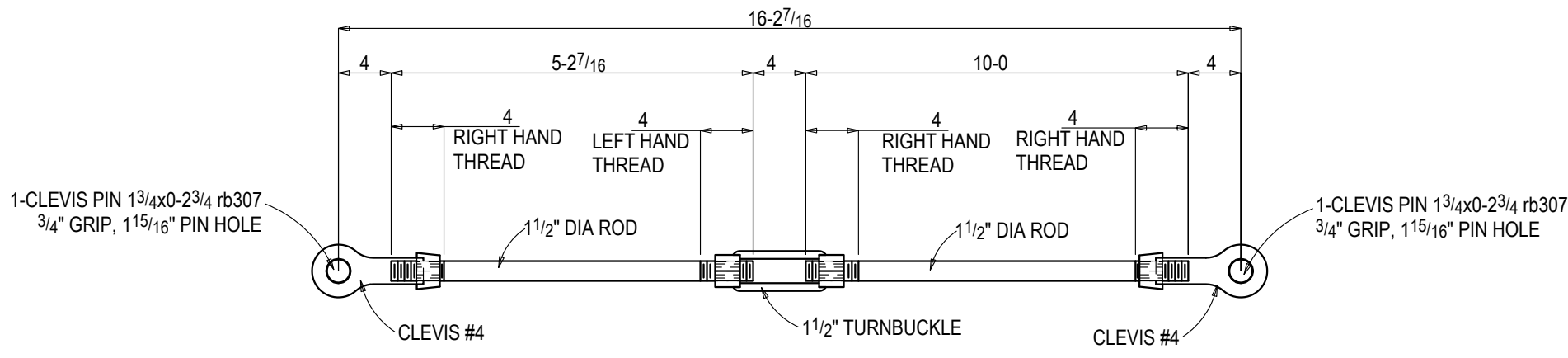
Total weight : 477

PROJECT		APPROVAL/FABRICATION/REVISION		
LOCATION				
CONTRACTOR				
ARCHITECT				
REFERENCE				
HOLES 13 1/16 DIA.	PAINT	STD. SHOP PRIMER	REVISION	
SURFACE PREP:		SSPC SP2	DRAWN	CHECKED
			SHEET #	JOB #
			128	

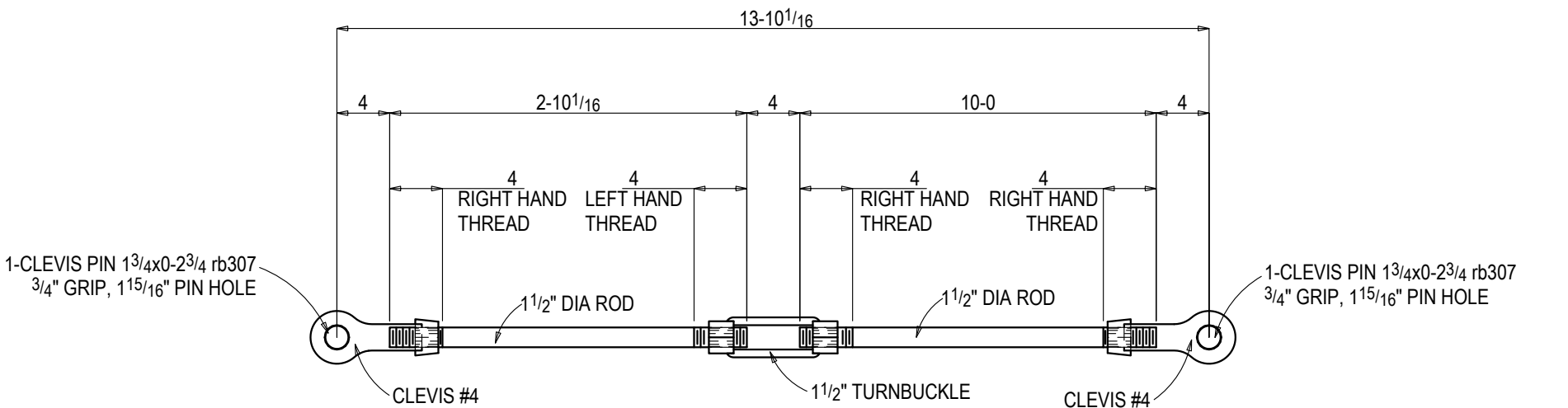


N.P. INDICATES NO PAINT 1" AROUND NOTCH

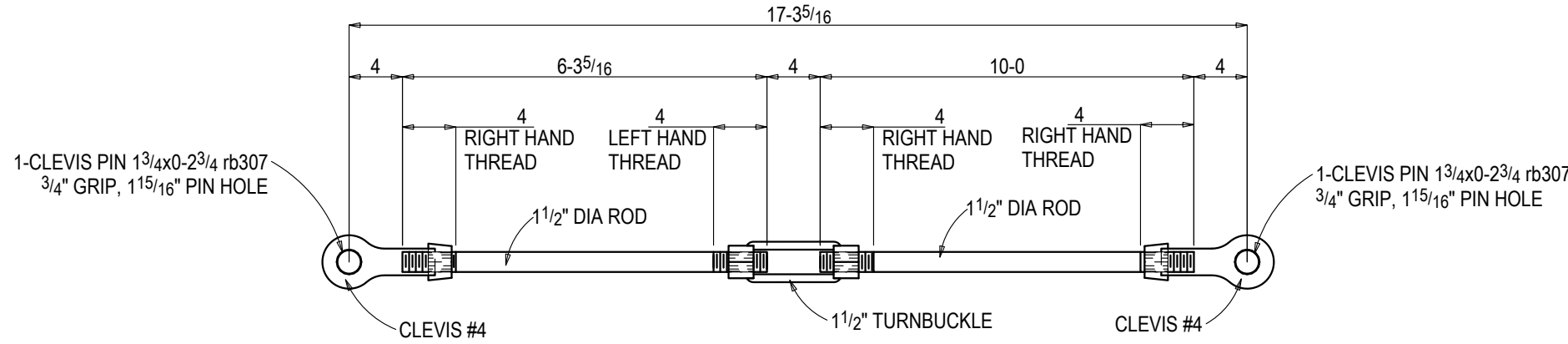
PROJECT				APPROVAL/FABRICATION/REVISION			
LOCATION							
CONTRACTOR							
ARCHITECT							
REFERENCE	E105 & E106			REV	DATE	DESCRIPTION	
HOLES 13/16" DIA. (UNLESS NOTED)	PAINT	STD. SHOP PRIMER		DRAWN	CHECKED	SHEET # 1147	JOB #
	SURFACE PREP.	SSPC- SP3					



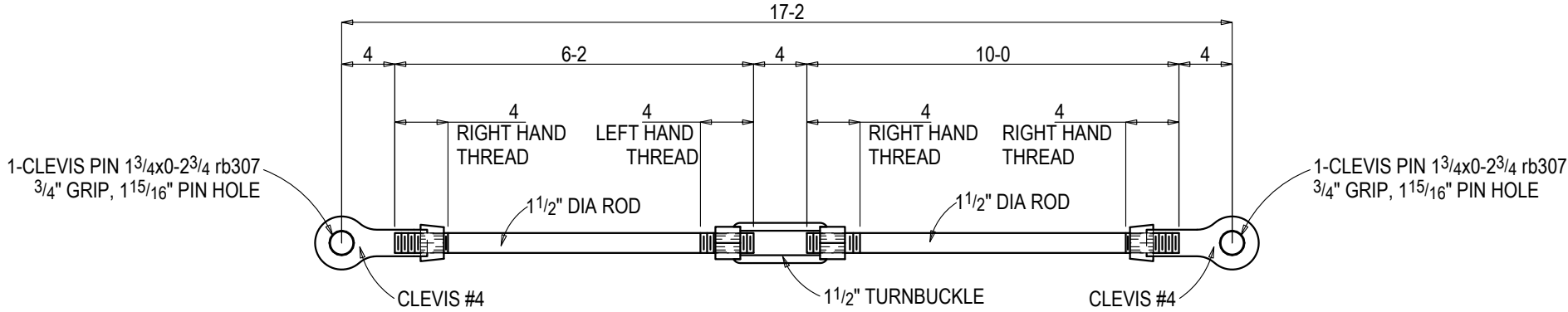
2 ROD BRACES 2025VB1



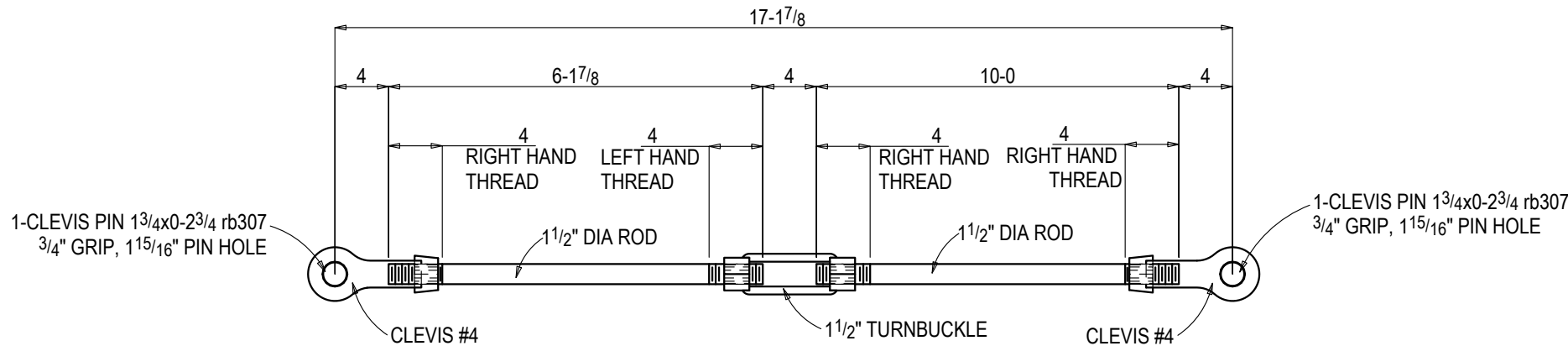
2 ROD BRACES 2025VB2



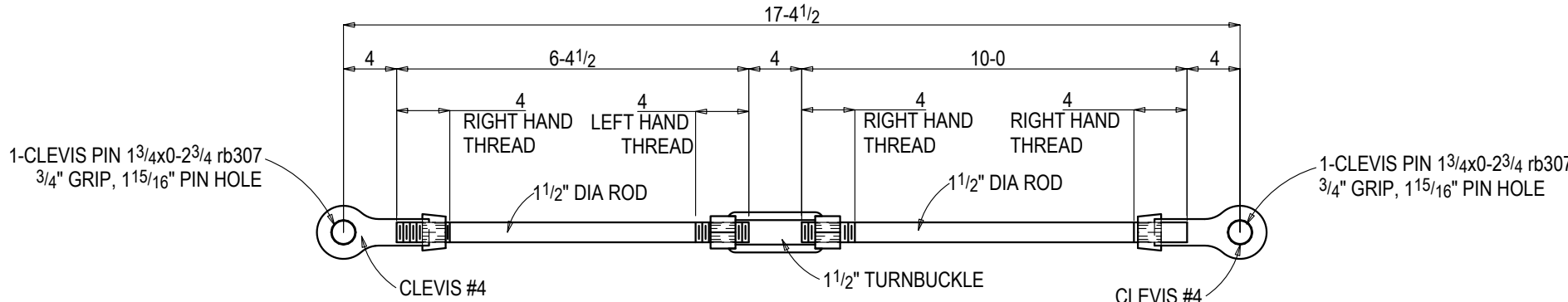
ONE ROD BRACE 2025VB3



ONE ROD BRACE 2025VB4



2 ROD BRACES 2025VB5



2 ROD BRACES 2025VB6

SAMPLE DRAWING: ROD BRACE DETAIL

PROJECT:							CUSTOMER:				JOB NUMBER		
SURFACE PREP: SSPC - SP3							WELD: E70XX				DWG NO. 2025		
REV #	SEQ	SEQ QTY	TOTAL QTY	MATERIAL SIZE	LENGTH FT	INCHES	PIECE MARK	SHIPMENT MARK	REMARKS	WEIGHT TOTAL	ABON NO	ROUTE CODE	
	S2A	2	2	ROD BRACE				2025VB1		237			
			2	RB1 1/2	10	0	2025VB1L		A36	119			
			2	RB1 1/2	5	2 7/16	2025VB1		A36	62			
			2	TB1 1/2x6	0	9 3/4	tb5		TURNBUCKLE C-1035	12			
			4	CV4	0	5 15/16	c124		C-1035	36			
			4	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	7			
	S2A	2	2	ROD BRACE				2025VB2		209			
			2	RB1 1/2	10	0	2025VB2L		A36	119			
			2	RB1 1/2	2	10 1/16	2025VB2		A36	34			
			2	TB1 1/2x6	0	9 3/4	tb9		TURNBUCKLE C-1035	12			
			4	CV4	0	5 15/16	c124		C-1035	36			
			4	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	7			
	S2	1	ONE	ROD BRACE				2025VB3		125			
			1	RB1 1/2	10	0	2025VB3L		A36	60			
			1	RB1 1/2	6	3 3/16	2025VB3		A36	37			
			1	TB1 1/2x6	0	9 3/4	tb5		TURNBUCKLE C-1035	6			
			2	CV4	0	5 15/16	c124		C-1035	18			
			2	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	4			
	S2	1	ONE	ROD BRACE				2025VB4		124			
			1	RB1 1/2	10	0	2025VB4L		A36	60			
			1	RB1 1/2	6	2	2025VB4		A36	37			
			1	TB1 1/2x6	0	9 3/4	tb5		TURNBUCKLE C-1035	6			
			2	CV4	0	5 15/16	c124		C-1035	18			
			2	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	4			
	S2	2	2	ROD BRACE				2025VB5		249			
			2	RB1 1/2	10	0	2025VB5L		A36	119			
			2	RB1 1/2	6	1 7/8	2025VB5		A36	74			
			2	TB1 1/2x6	0	9 3/4	tb5		TURNBUCKLE C-1035	12			
			4	CV4	0	5 15/16	c124		C-1035	36			
			4	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	7			
	S2	2	2	ROD BRACE				2025VB6		251			
			2	RB1 1/2	10	0	2025VB6L		A36	119			
			2	RB1 1/2	6	4 1/2	2025VB6		A36	76			
			2	TB1 1/2x6	0	9 3/4	tb6		TURNBUCKLE C-1035	12			
			4	CV4	0	5 15/16	c124		C-1035	36			
			4	CLEVIS PIN 1 3/4	0	2 3/4	rb307		A36	7			
HOLE DIA 13/16 U.N.O.				PAINT: One SC: Gray Alkyd Primer S3102. 2.0-2.5 mils DFT U.N.O. (By Krylon Industrial)									
REMARKS:										DWG NO: 2025			
										Total weight : 1196			
#	REVISION DESCRIPTION										BY	DATE	

REF. E200 THRU E206
SDS/2 VER. 2017.13

DRAWING RELEASE												
DATE	PURPOSE											
		PROJECT										
		LOCATION										
		CONTRACTOR										
		ARCH./ENGR.										
		DETAILS OF	ROD BRACE									
		DRAWN BY:	DATE	JOB NO.		DWG NO.		REV.				
		CHK'D BY:	DATE			2025						



ONE BENT PLATE 243M2



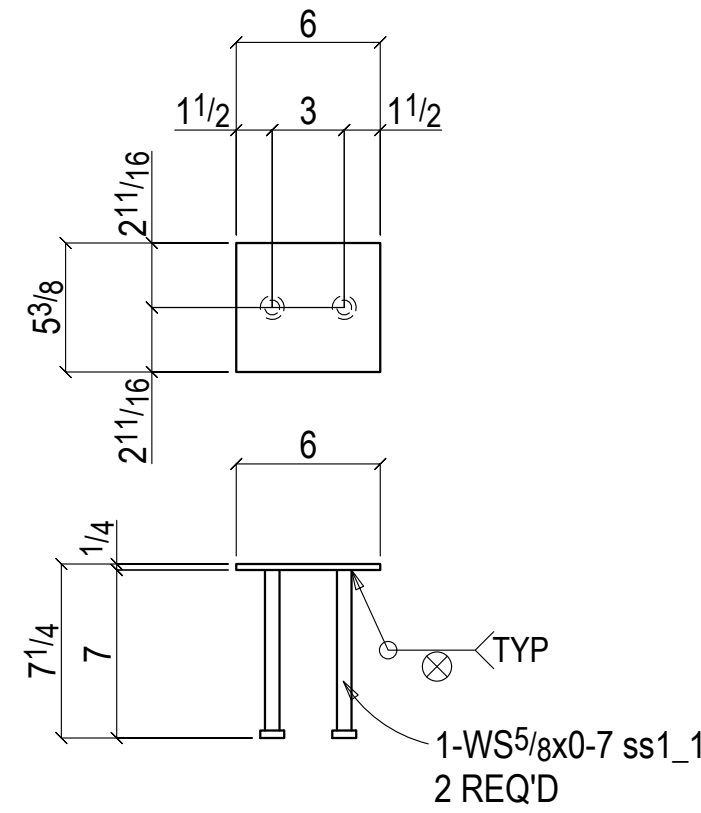
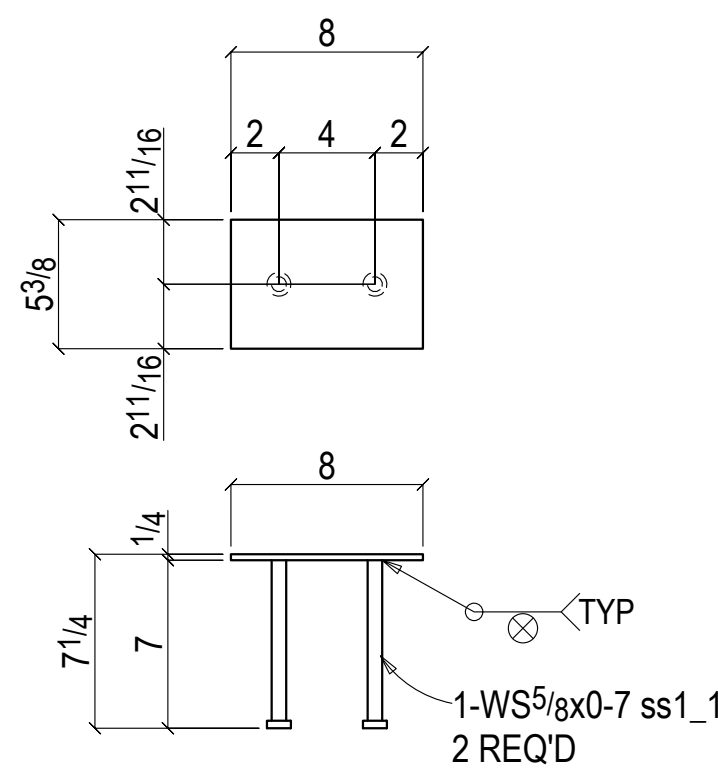
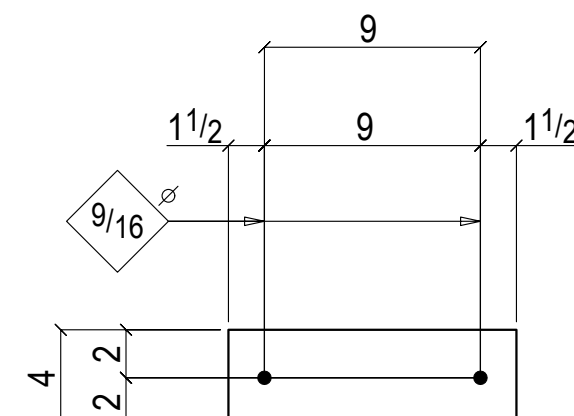
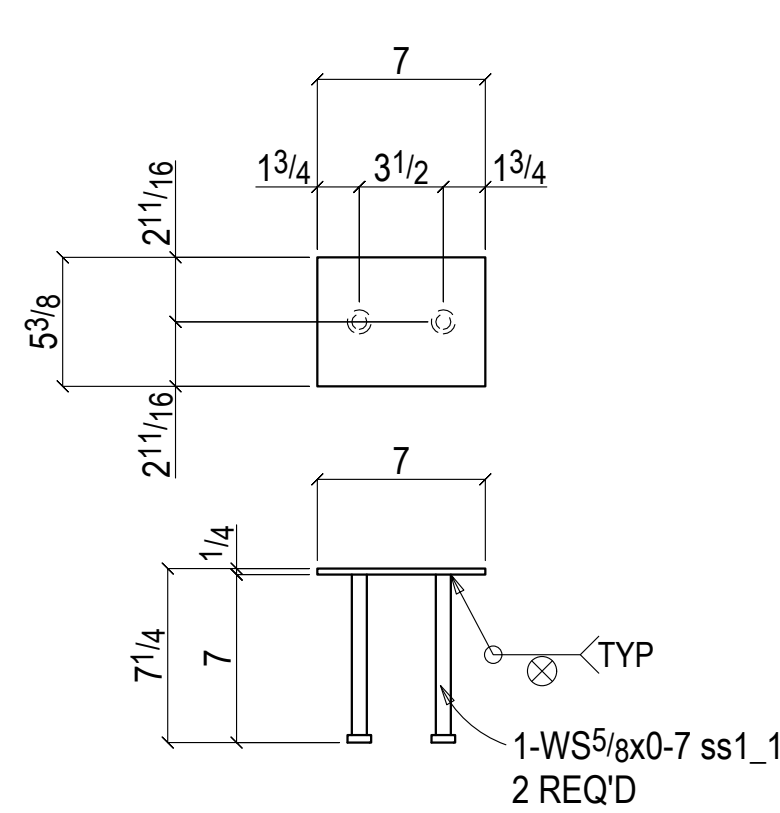
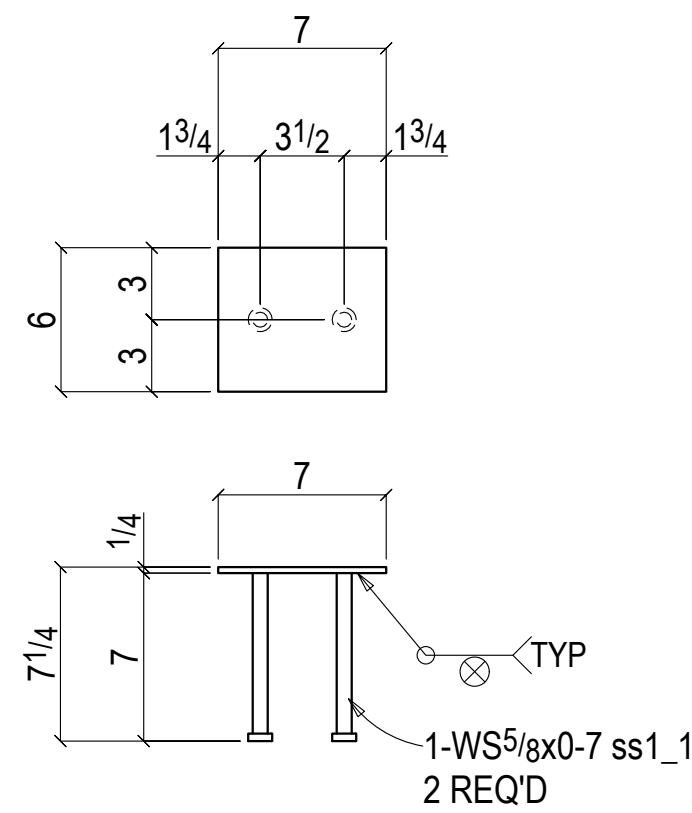
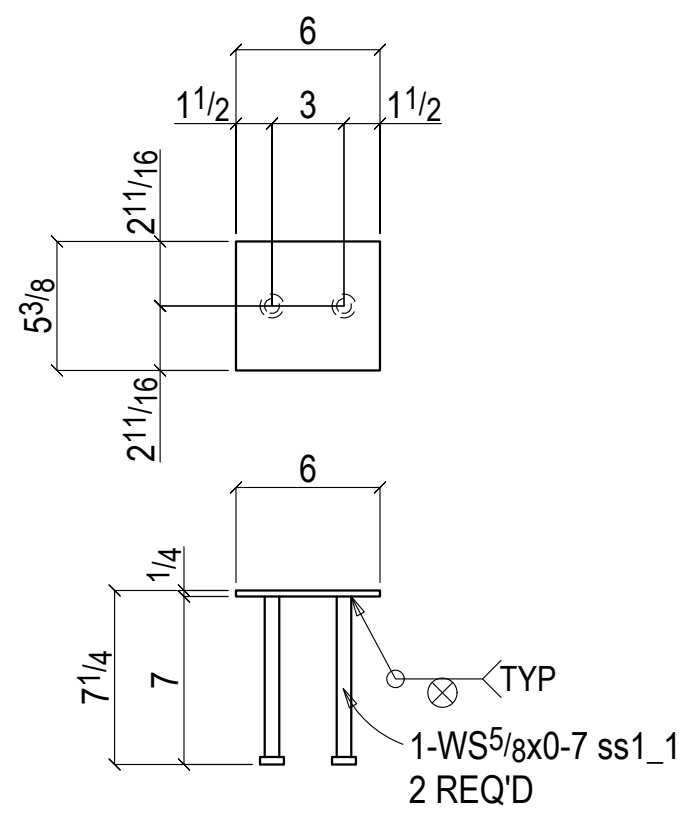
ONE EMBED ANGLE 243M5



Total weight : 854

1. ALL W-SHAPES & WT SHAPES SHALL CONFORM TO ASTM A992 GR50 UNLESS NOTED OTHERWISE.
2. ALL CHANNELS, S-SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36.
3. ALL ROUND HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B ($F_y=42\text{ksi}$).
4. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B ($F_y=46\text{ksi}$).
5. ALL WELDING TO BE DONE IN ACCORDANCE WITH ANSI/AWS D1.1, STRUCTURAL WELDING CODE - STEEL, OF LATEST ISSUE, UNLESS NOTED OTHERWISE.

SENT APPROVAL		RECEIVED APPROVAL	
SHOP	CONTRACTOR		
		JOB NAME:	
ERECTOR	ARCHITECT	LOCATION:	
		CUSTOMER:	
		ARCH./ENGINEER	
REVISIONS		BOLTS	TC 3/4" DIA A325N UNLESS NOTED: HOLES 13/16" DIA UNLESS NOTED
X		DR. BY:	SURFACE PREP: SSPC-SP3
X		CH. BY:	SHOP PAINT STD SHOP PRIMER
X		DATE	SHT. NO.: 243 
1		JOB NO.:	



SAMPLE DRAWING: EMBED DETAILS

[illegible]

DATE IN SHOP		CHAS	
PRIOR. NO.		PUTNAM	
REF. DWG. # - .		GENERAL NOTES 1. ALL "W" SHAPES TO BE ASTM A-992 (50 ksi) U.N. 2. ALL TUBING TO BE ASTM A500 GR. B (46KSI) U.N. 3. ALL PIPE TO BE ASTM A53 GR. B TYPE E U.N. 4. REMAINDER OF STEEL TO BE ASTM A36 U.N. 5. WELDING AWS D1.1 "E70XX" (L.H.) ELECTRODES	
RELEASE-REVISION CHART			
REV	DESCRIPTION	DATE	EMBED DETAILS
SCALE			PROJECT
DRAWN	DATE	CHECKED	DATE
PROJECT MANAGER			OWNER

			LOCATION
FASTENERS			CUSTOMER
3/4" A325N U.N.			
SURFACE PREP			ENGINEER OR ARCHITECT

SHOP COATING			CUST. PURCHASE ORDER NO.
NO PAINT			-
			SHOP ORDER NO.
			219800
			DRAWING NO.
			2
			SERIAL
			1



A diagram of a square backer bar with four welds. The welds are labeled as follows:

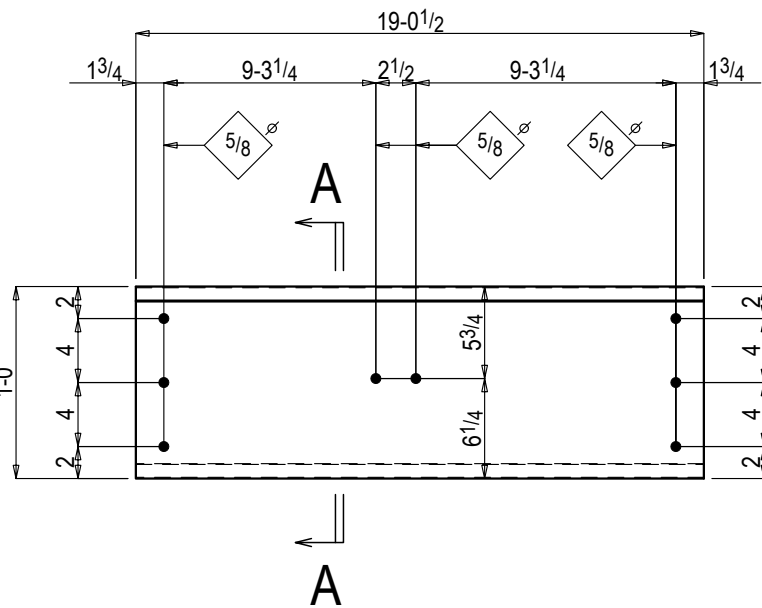
- Top-left: TACK WELD-TYP
- Top-right: 1-pl73 (BACKER BAR) CNTR
- Bottom-right: 1-pl74 (BACKER BAR) CNTR
- Bottom-left: 1-pl73 (BACKER BAR) CNTR

SHOP NOTE:
ALL WELDS TO BE GROUND SMOOTH.

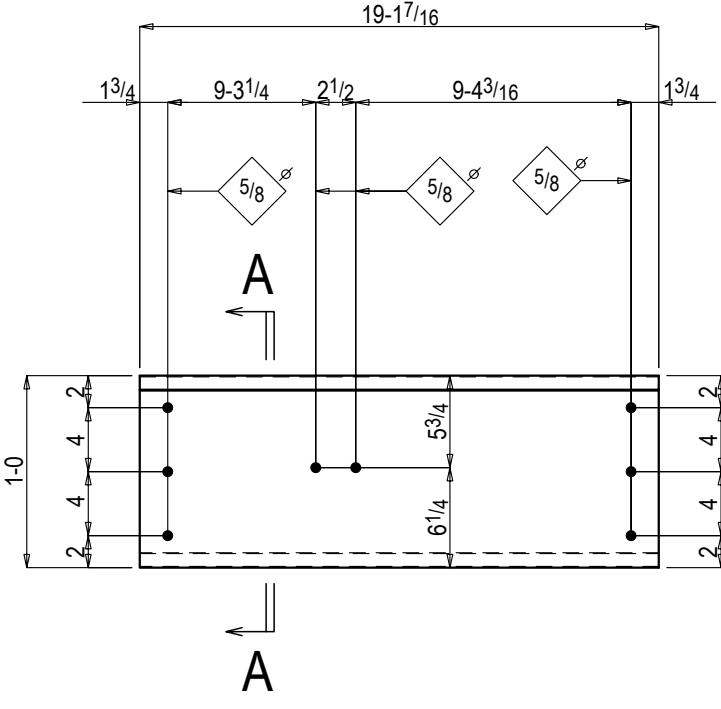
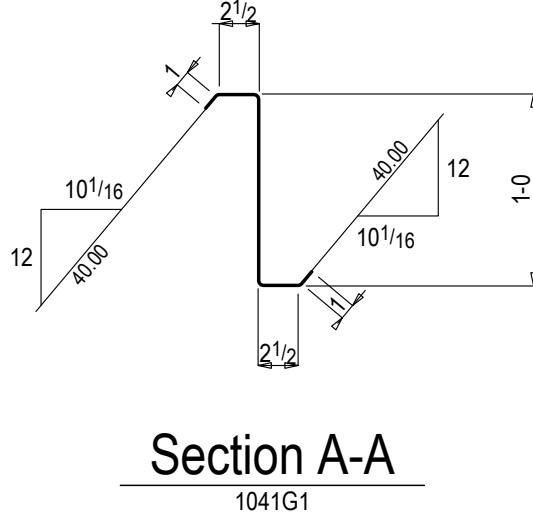
NOTES:
CLEAN: SSPC-SP3
PAINT: STD SHOP PRIMER U.N.O
HOLES ARE 13/16 Dia. U.N.O.

JOB #	
DATE	
SCALE	NTS
DETAILER	
CHECKER	

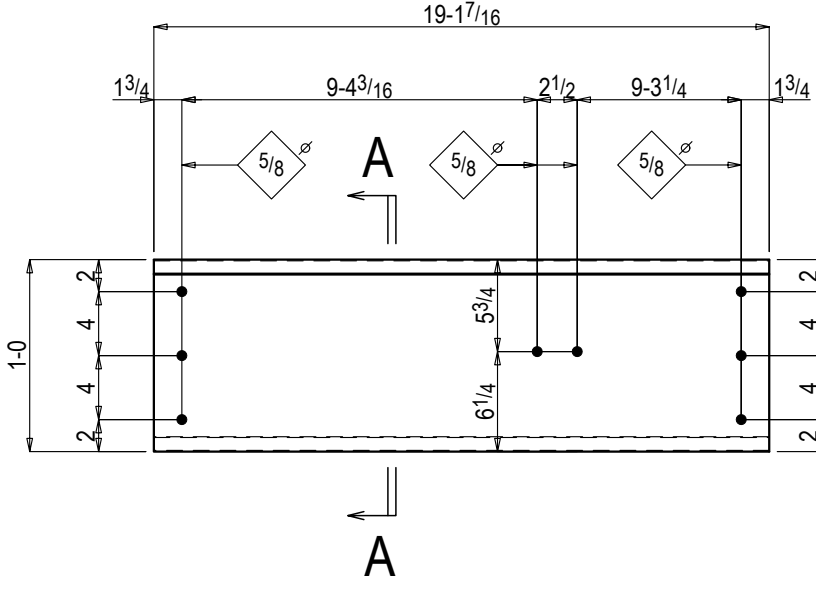
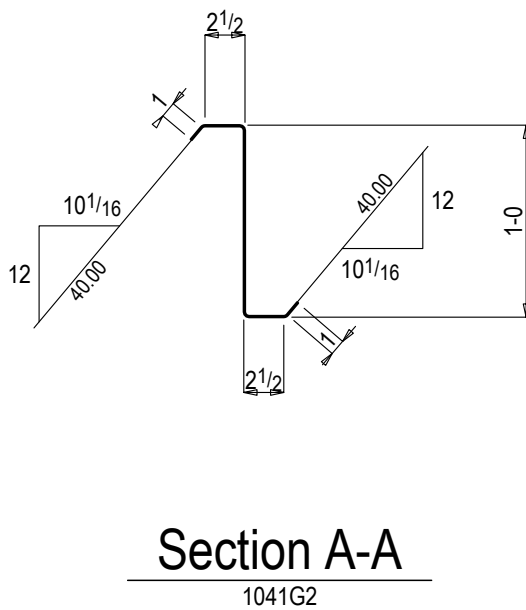
102



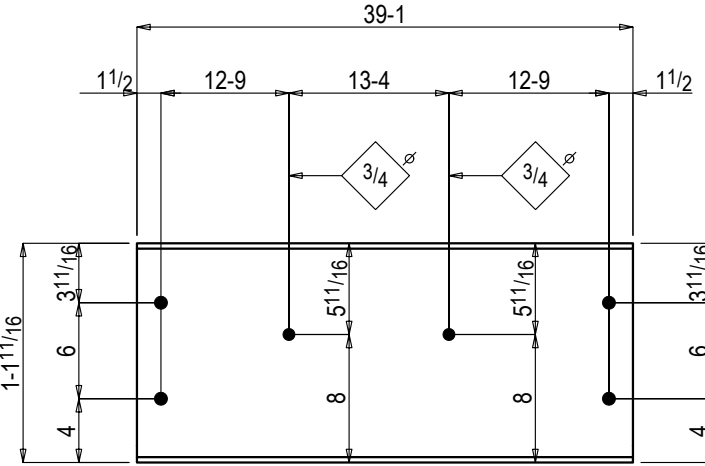
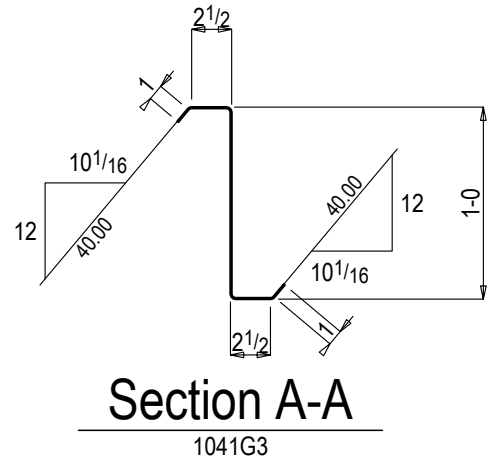
5 GIRTS 1041G1



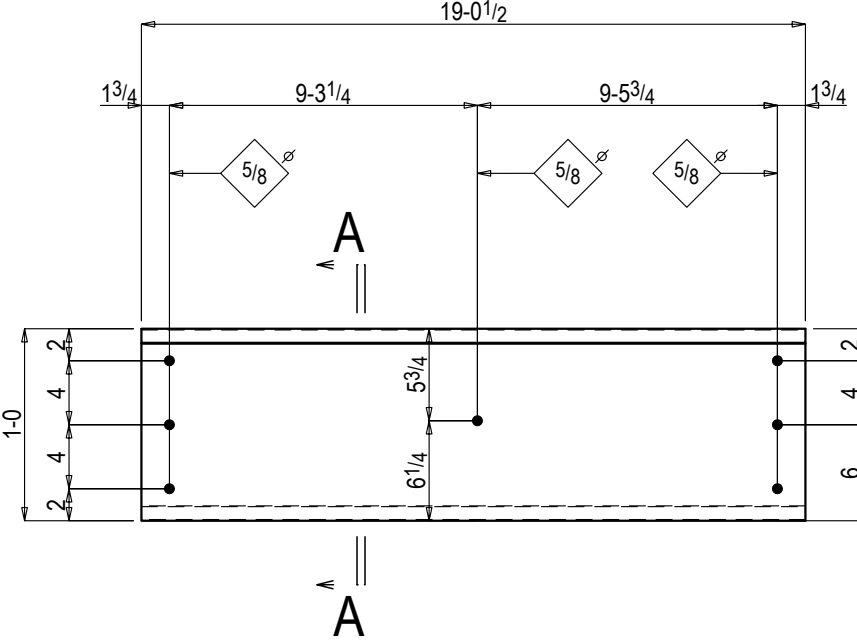
3 GIRTS 1041G2



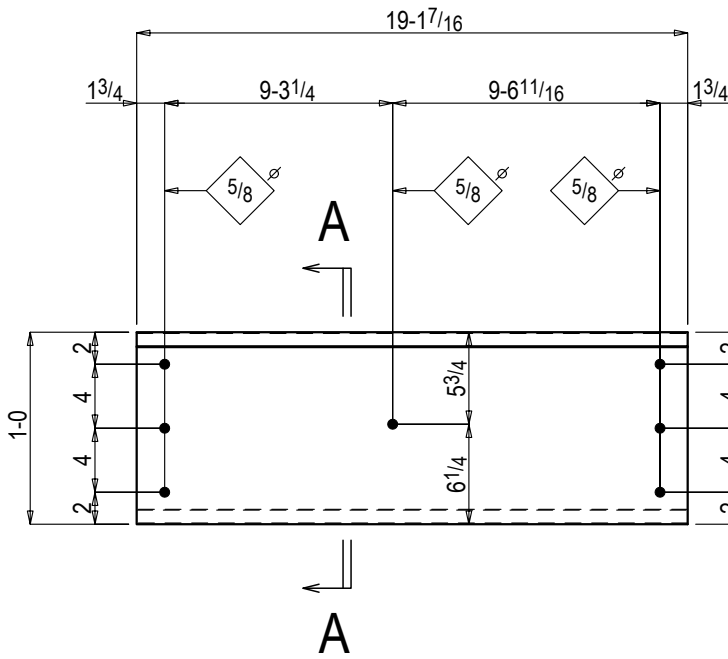
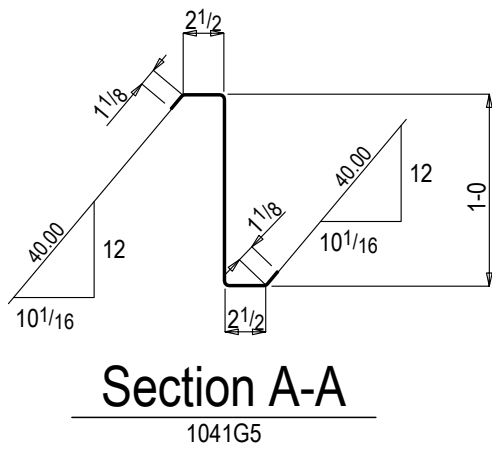
2 GIRTS 1041G3



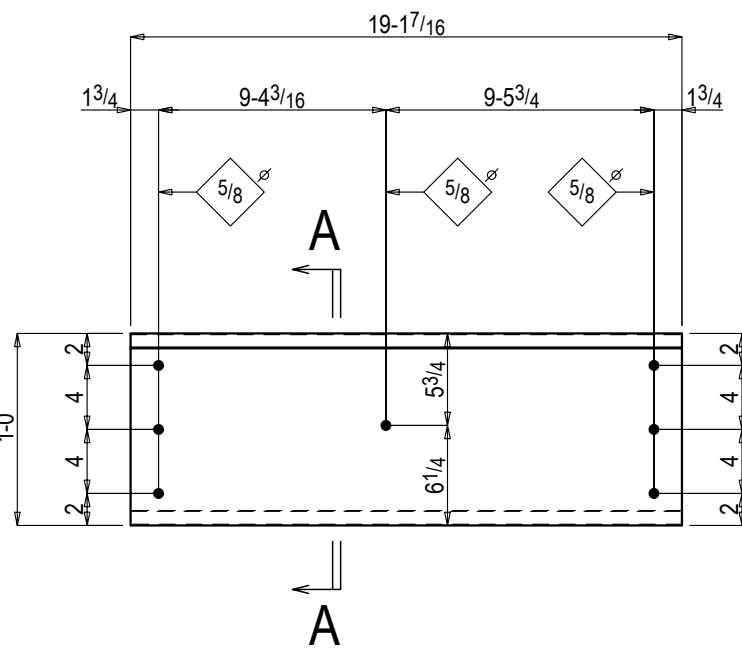
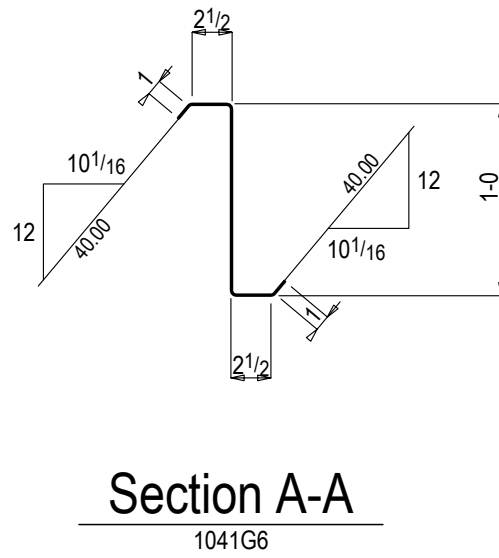
ONE GIRT 1041G4



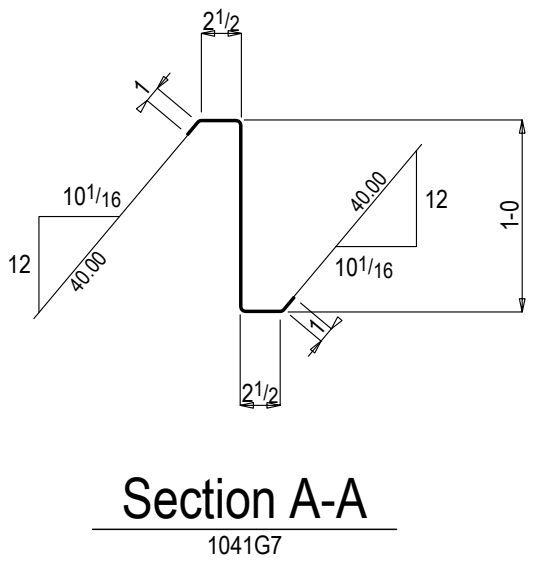
2 GIRTS 1041G5



ONE GIRT 1041G6



ONE GIRT 1041G7



SAMPLE DRAWING: GIRT DETAILS

PROJECT:						CUSTOMER:			JOB NUMBER		
SURFACE PREP: SSPC - SP3						WELD: E70XX			DWG NO. 1041		
REV #	SEQ	TOTAL QTY	MATERIAL SIZE	LENGTH FT	INCHES	PIECE MARK	SHIPMENT MARK	REMARKS	WEIGHT TOTAL	ABON NO	ROUTE CODE
S1A	5	5	GIRT				1041G1				
		5	12x2.5Z14GA	19	0 1/2	1041G1		A1011 GR-55	600		
S1A	3	3	GIRT				1041G2				
		3	12x2.5Z14GA	19	1 7/16	1041G2		A1011 GR-55	361		
S1A	2	2	GIRT				1041G3				
		2	12x2.5Z14GA	19	1 7/16	1041G3		A1011 GR-55	241		
S1A	1	ONE	GIRT				1041G4				
		1	W14x22	39	1	1041G4		A992	860	5-3	
S1A	2	2	GIRT				1041G5				
		2	12x2.5Z14GA	19	0 1/2	1041G5		A1011 GR-55	240		
S1A	1	ONE	GIRT				1041G6				
		1	12x2.5Z14GA	19	1 7/16	1041G6		A1011 GR-55	120		
S1A	1	ONE	GIRT				1041G7				
		1	12x2.5Z14GA	19	1 7/16	1041G7		A1011 GR-55	120		
HOLE DIA 13/16						PAINT: One SC: Gray Alkyd Primer S3102, 2.0-2.5 mils DFT U.N.O. (By Krylon Industrial)					
REMARKS:									DWG NO: 1041		
									Total weight : 2542		
#	REVISION DESCRIPTION								BY	DATE	

REF. E100 THRU E108
SDS-2 VER. 2017.13

DRAWING RELEASE											
DATE	PURPOSE										
		PROJECT									
		LOCATION									
		CONTRACTOR									
		ARCH./ENGR.									
		DETAILS OF	GIRT								
		DRAWN BY:	DATE	JOB NO.		DWG NO.		1041		REV. 0	
		CHK'D BY:	DATE								



DRAWING: 1034

PROJECT :							CUSTOMER :				JOB NUMBER		
SURFACE PREP : SSPC - SP3							WELD: E70XX				DWG NO. 1034		
REV #	SEQ	SEQ QTY	TOTAL QTY	MATERIAL SIZE	LENGTH FT INCHES		PIECE MARK	SHIPMENT MARK	REMARKS	WEIGHT TOTAL	ABOM NO	ROUTE CODE	
	S1	4	4	SAG ROD				1034M1			27		
			4	RB½	10	3	1034M1		A36		27		
			8	½ NUT					HNNT A563				
			8	½ NUT					HNNT A563				
			8	½ WASHER					HD F436				
			8	½ WASHER					HD F436				
	S1	16	16	SAG ROD				1034M2			141		
			16	RB½	13	3	1034M2		A36		141		
			64	½ NUT					HNNT A563				
			64	½ WASHER					HD F436				
	S1	1	ONE	SAG ROD				1034M3			6		
			1	RB½	9	6¾	1034M3		A36		6		
			4	½ NUT					HNNT A563				
			4	½ WASHER					HD F436				
	S1	1	ONE	SAG ROD				1034M4			12		
			1	RB¾	12	0¼	1034M4		A36		12		
			4	¾ NUT					HNNT A563				
			4	¾ WASHER					HD F436				
	S1	2	2	SAG ROD				1034M5			12		
			2	RB½	9	3	1034M5		A36		12		
			4	½ NUT					HNNT A563				
			4	½ NUT					HNNT A563				
			4	½ WASHER					HD F436				
			4	½ WASHER					HD F436				
	S1	1	ONE	SAG ROD				1034M6			6		
			1	RB½	8	3¾	1034M6		A36		6		
			4	½ NUT					HNNT A563				
			4	½ WASHER					HD F436				
	S1	1	ONE	SAG ROD				1034M7			6		
			1	RB½	8	8¾	1034M7		A36		6		
			4	½ NUT					HNNT A563				
			4	½ WASHER					HD F436				
	S1	1	ONE	SAG ROD				1034M8			6		
			1	RB½	9	1¾	1034M8		A36		6		
			4	½ NUT					HNNT A563				
			4	½ WASHER					HD F436				
HOLE DIA U.N.D.				13/16	PAINT: One SC: Gray Alkyd Primer S3102, 2.0-2.5 mils DFT U.N.D. (By Krylon Industrial)								
REMARKS:										DWG NO: 1034			
										Total weight : 216			
#	REVISION DESCRIPTION										BY	DATE	
REF. E100 THRU E108 SDS/2 VER. 2017, 13													
DRAWING RELEASE													
DATE		PURPOSE											
PROJECT													
LOCATION													
CONTRACTOR													
ARCH./ENGR.													
DETAILS OF													
DRAWN BY: DATE					JOB NO.				DWG NO. 1034				REV. 0
CHK'D BY: DATE													