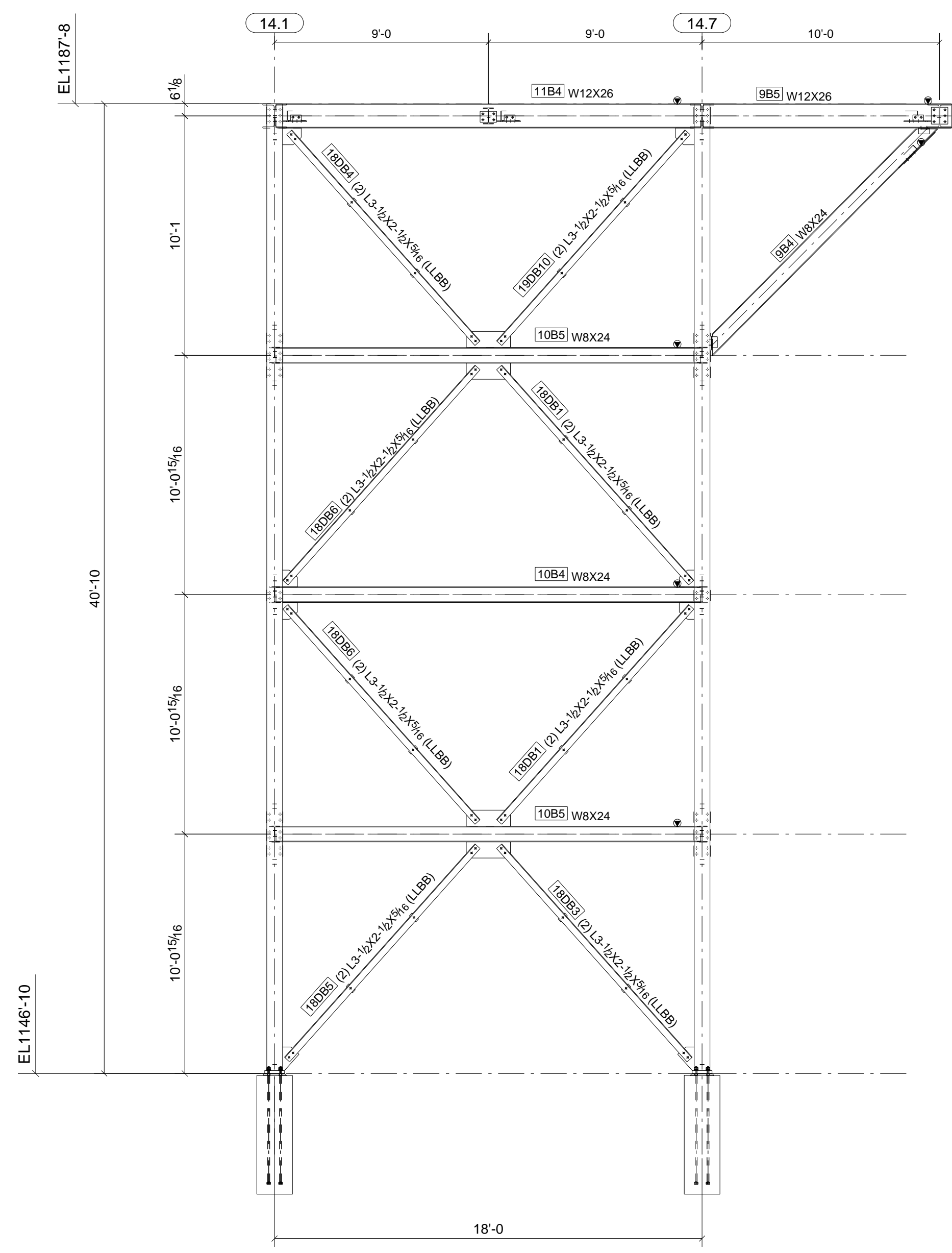
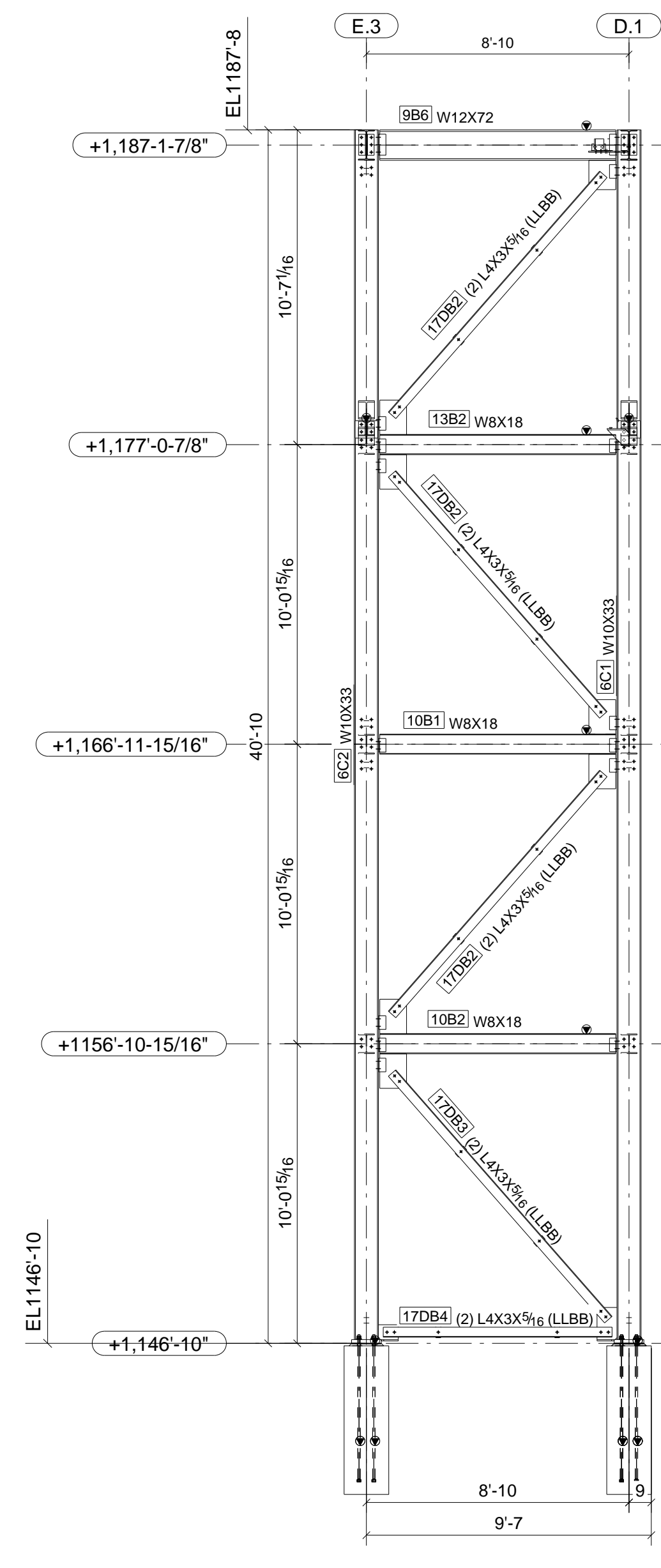


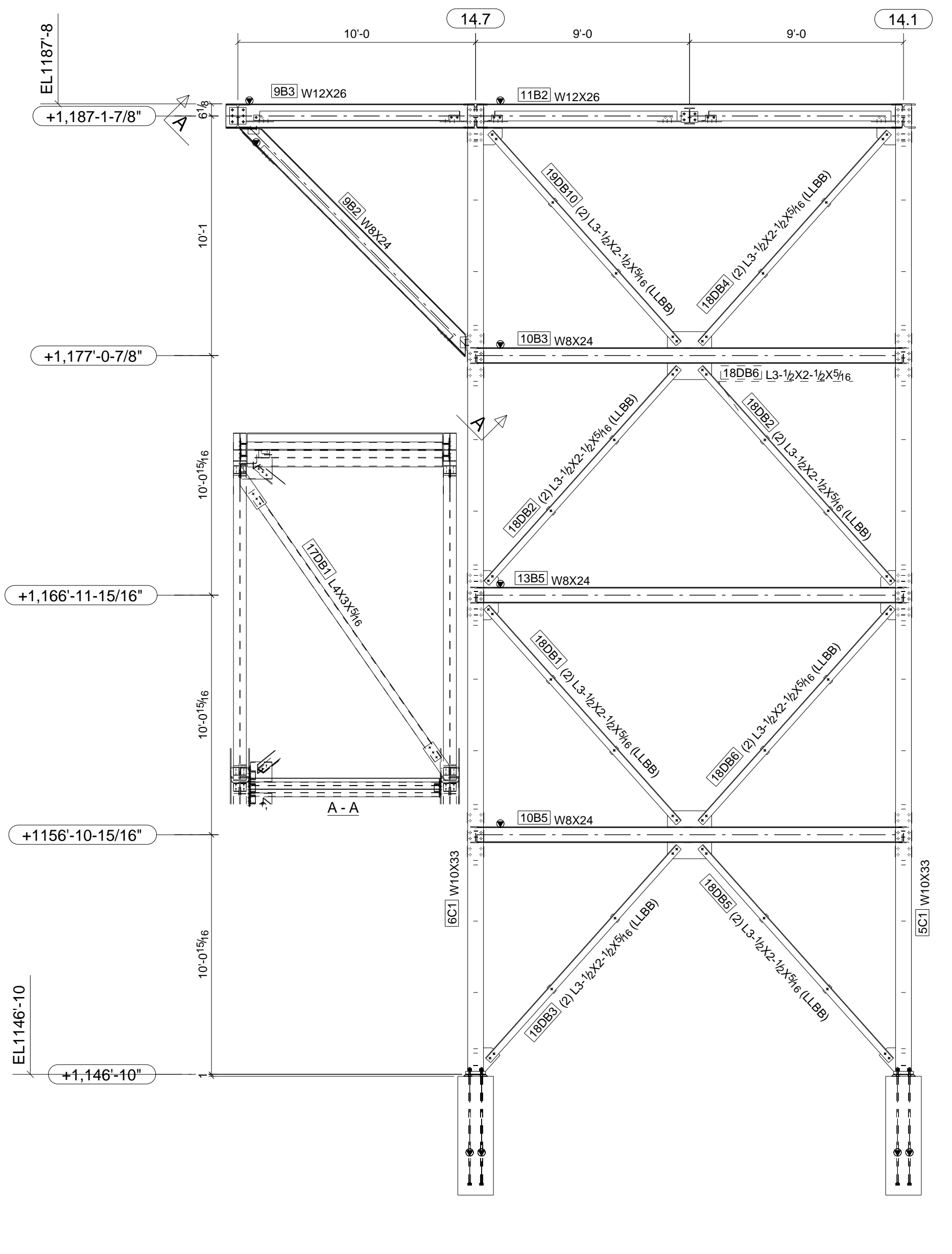
TOWER_1_EAST_ELEVATION



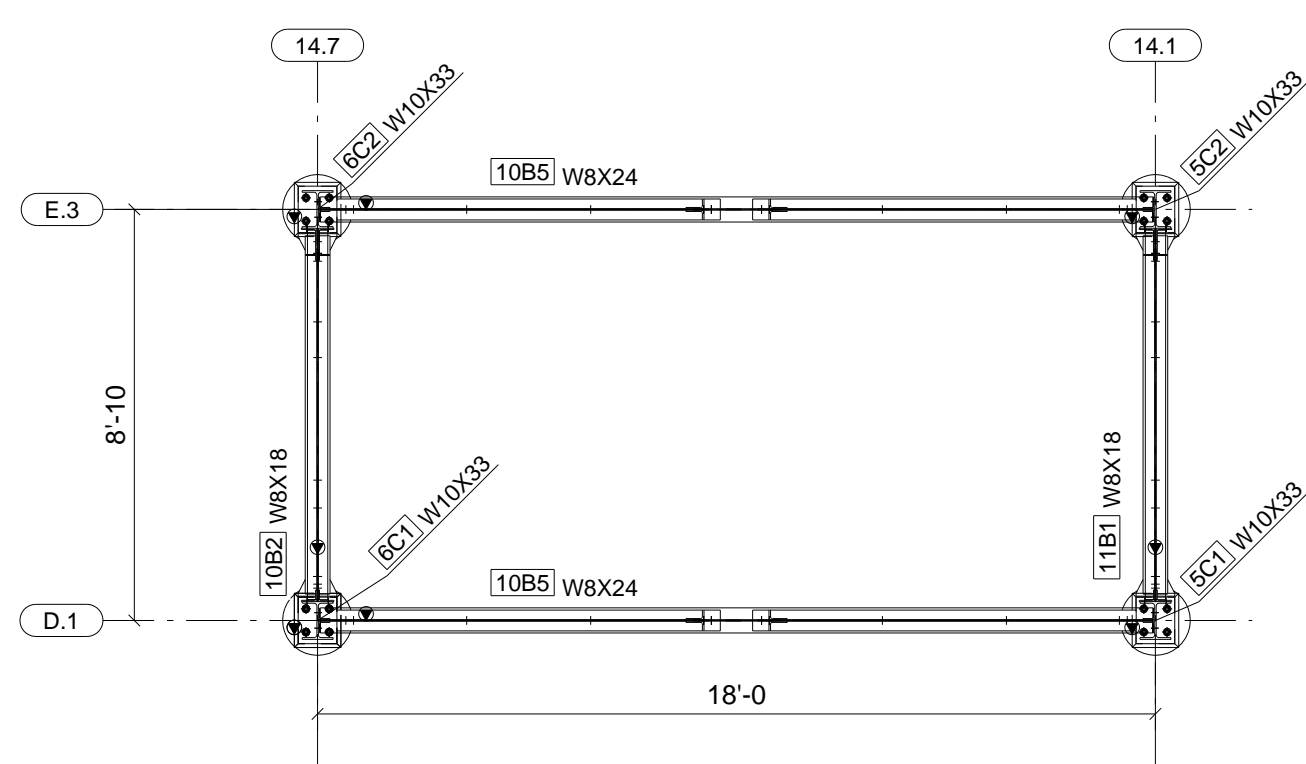
TOWER_1_NORTH_ELEVATION



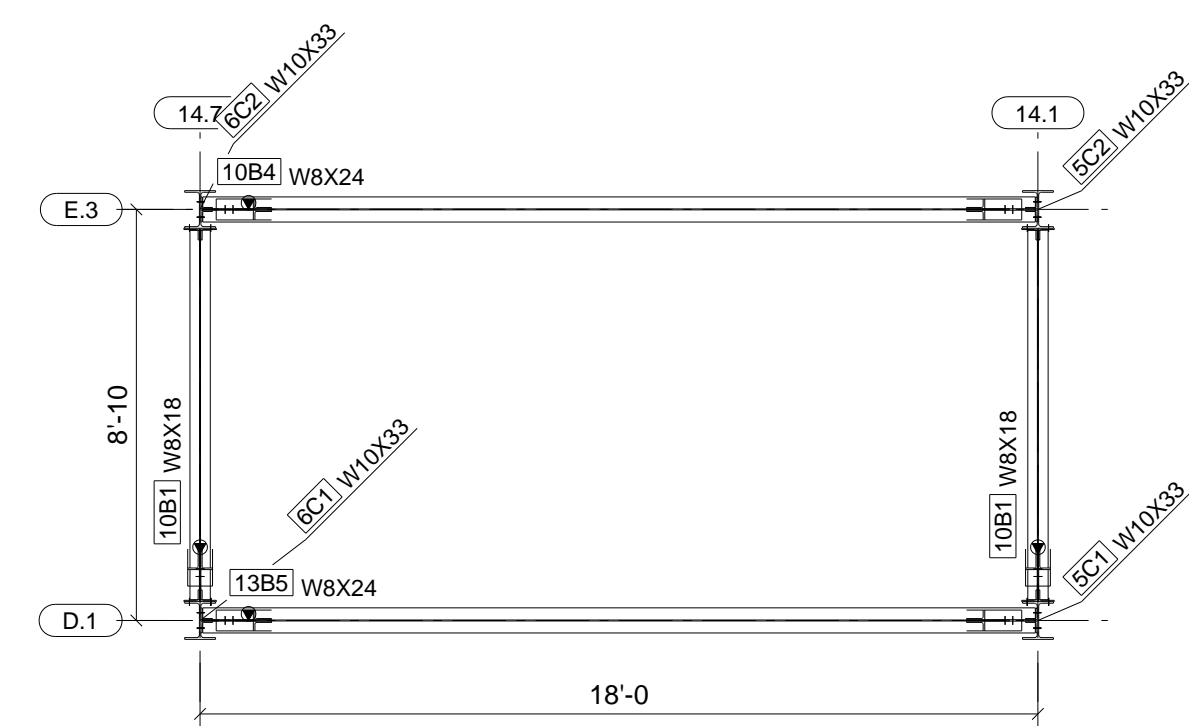
TOWER_1_WEST_ELEVATION



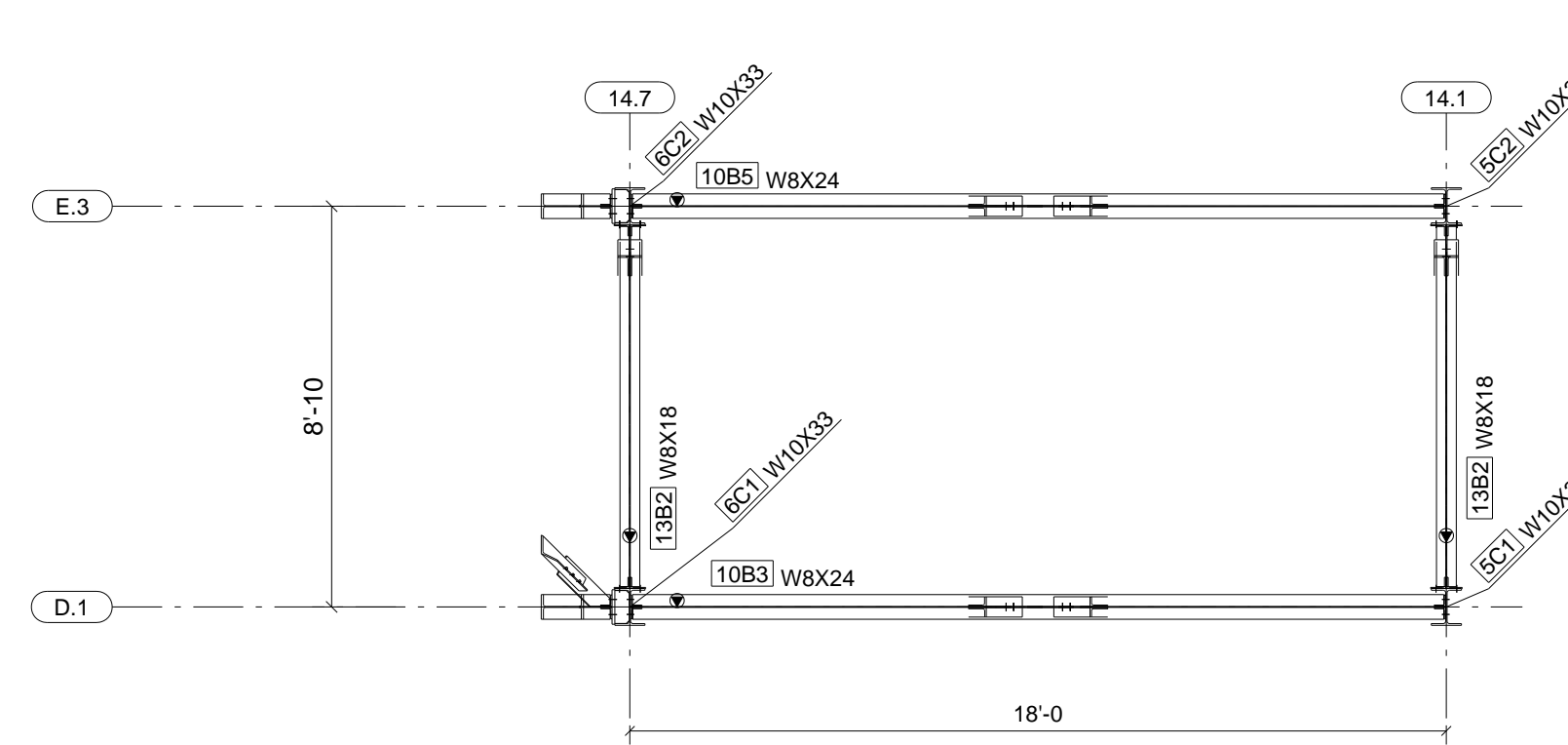
TOWER_1_SOUTH_ELEVATION



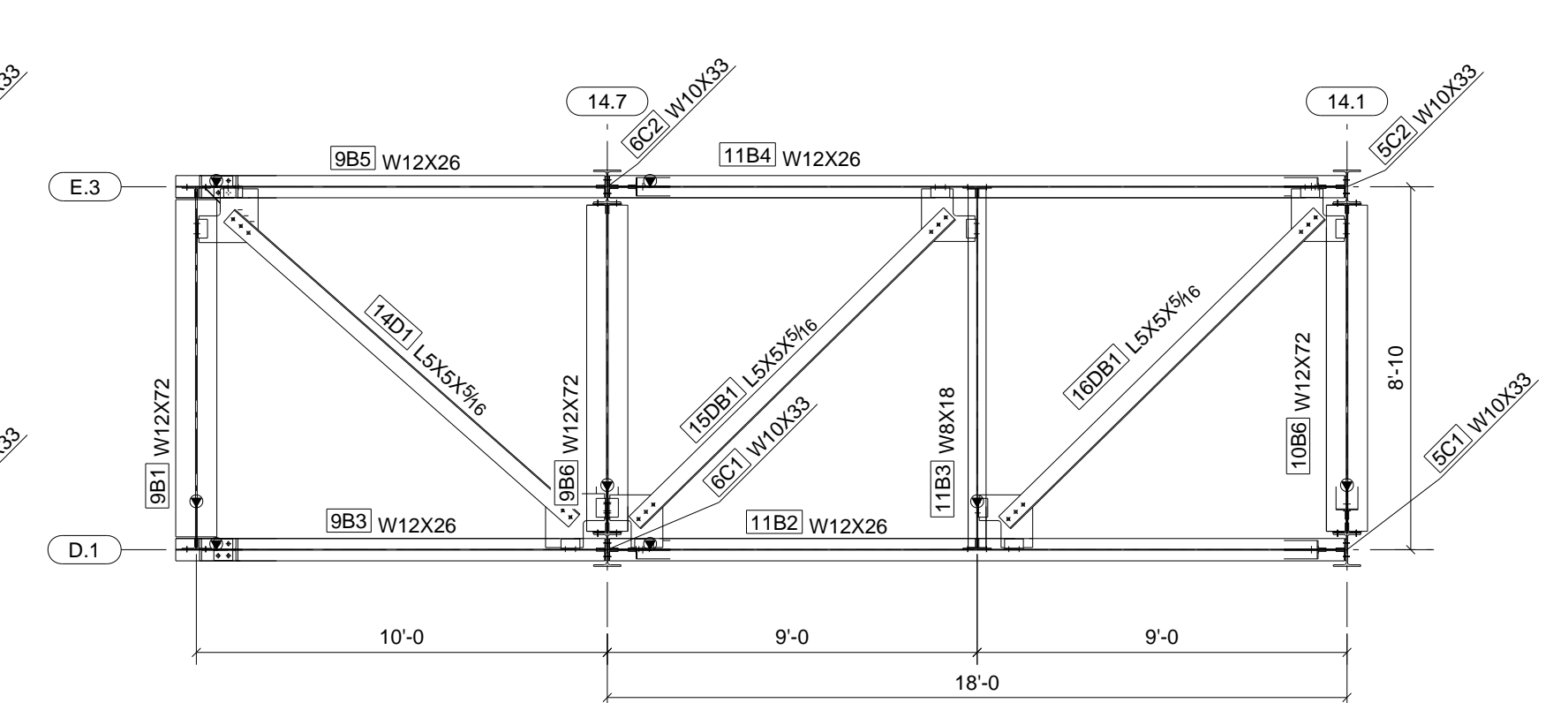
TOWER 1 PLAN AT EL. +1,156'-10-15/16



TOWER 1 PLAN AT EL. +1,166'-11-15/16



TOWER 1 PLAN AT EL. +1,177'-0-7/8



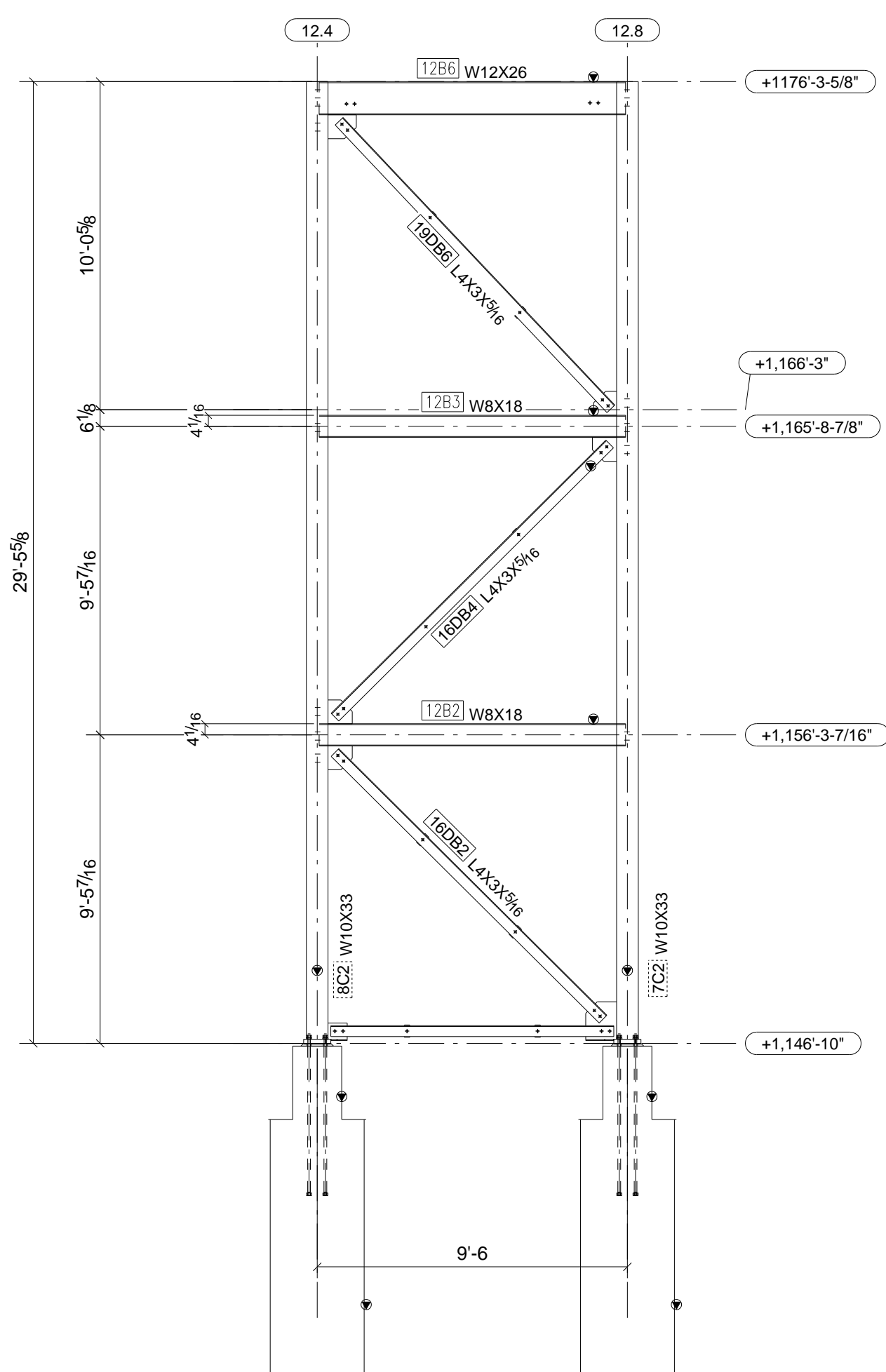
TOWER 1 PLAN AT EL. +1,187'-1-7/8

This project shall be erected in accordance with Section 7 of the ABC Code of Standard Practice, which includes 7.14 Correction of Errors, that states the following:
 The correction of minor errors by modernizing, grading, welding or cutting, and the showing of errors into the work shall not be considered to be normal erection operations. Errors that cannot be corrected using the foregoing means, or that require major changes in erection or construction, shall be promptly reported to the owner in writing. The contractor shall be held responsible for the correction of errors and the contractor shall be held responsible for the most efficient and economical method of correction to be used by owner.
 All welds shall be made with E70XX low hydrogen electrodes.

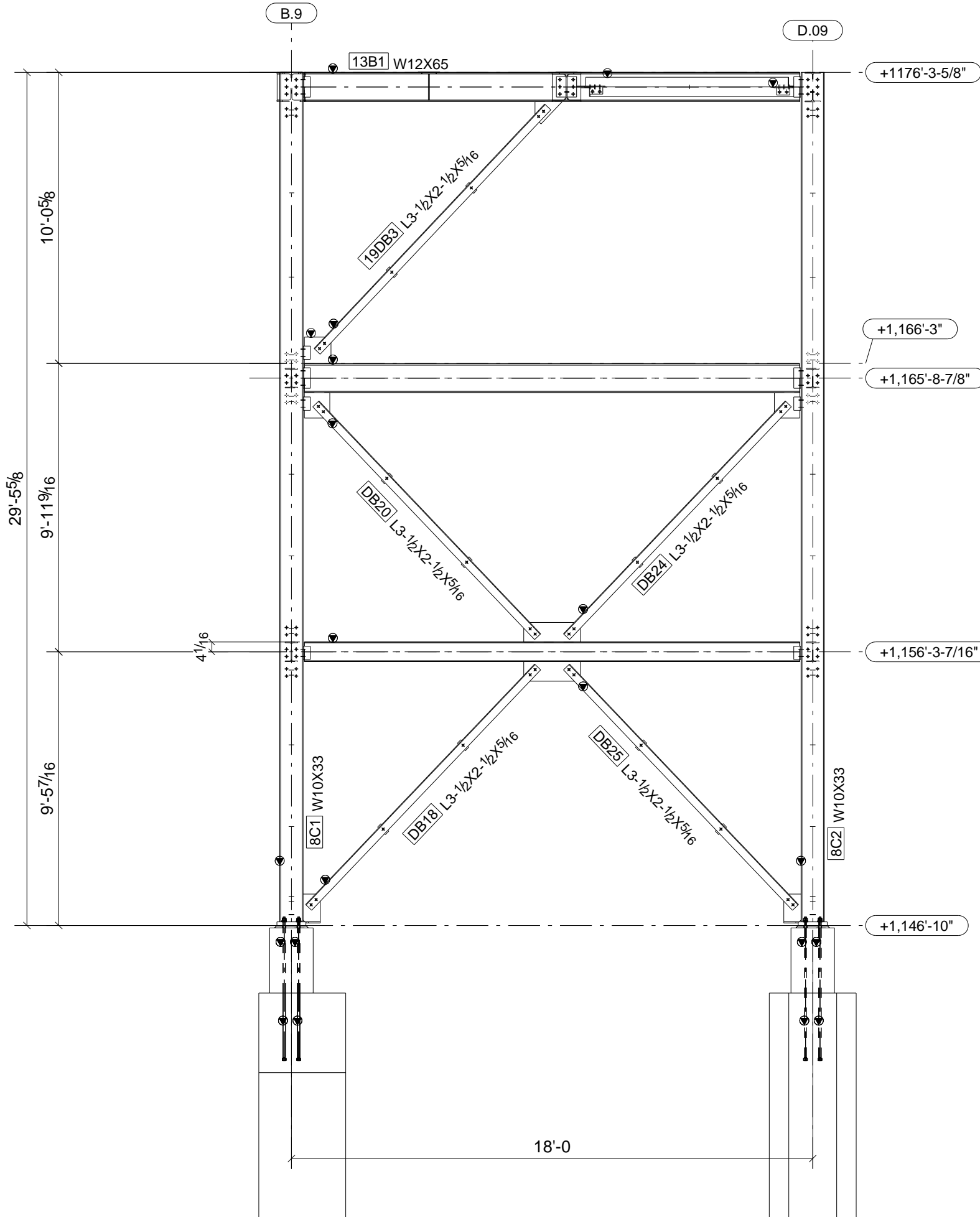
DATE	NO.	DESCRIPTION	BY
6/22/09	▲	For Approval	TMC
7/17/09	▲	For Fabrication F&P	TMC

STEEL ASTM	WELD	PROJECT NAME
A992	UND	Norfolk Southern Project
E70XX LH	UND	LOCATION
WELDS 1/4" Filler / B	UND	Norfolk Southern - Altoona, Pennsylvania
OPEN HOLES 13/16	UND	CONTRACTOR
BOLTS A325N	UND	Leonard S. Fiore
PAINT PER SPEC/IC	UND	ARCHITECT
		H F Lenz Company

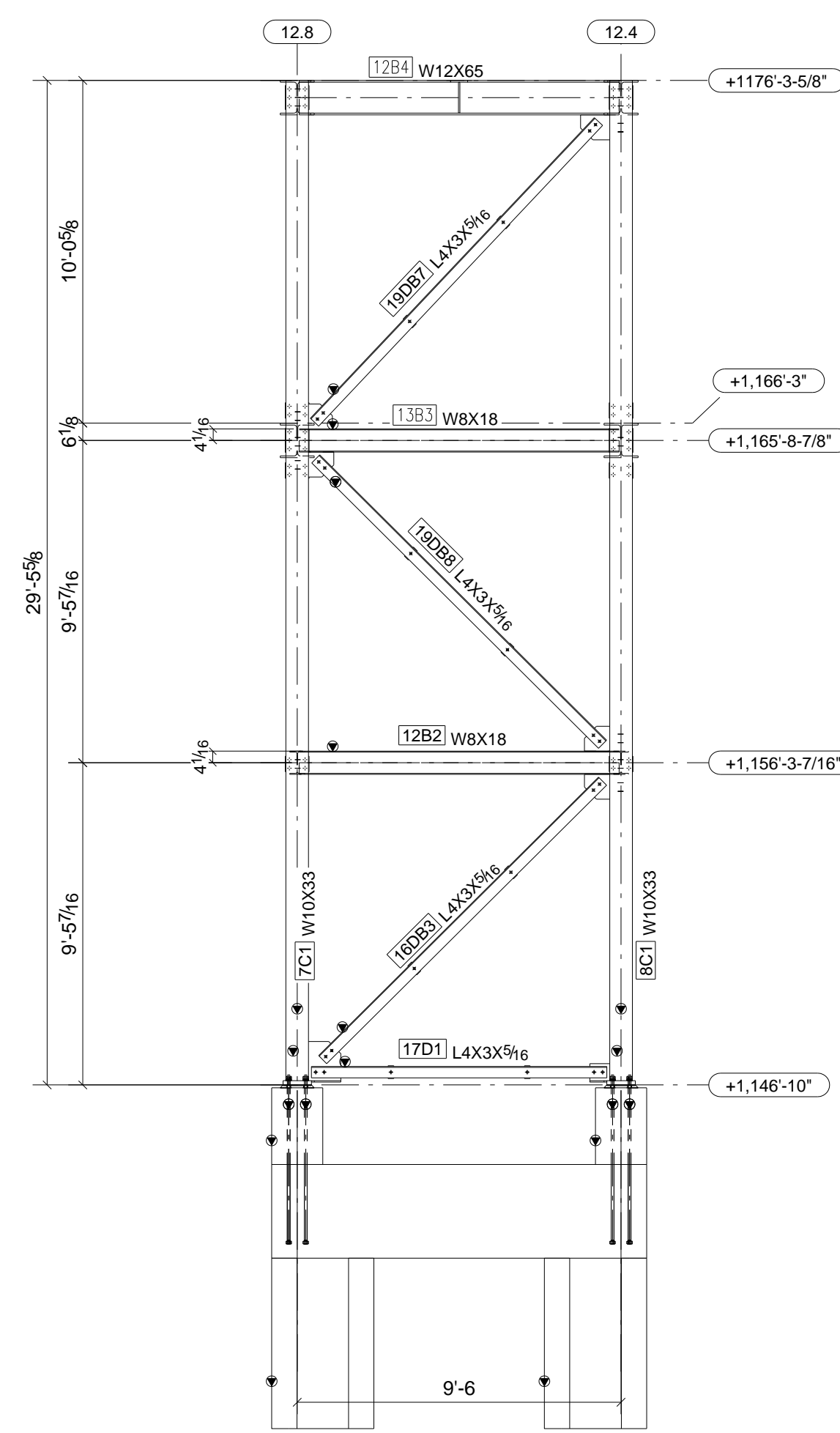
Altoona Pipe And Steel Supply Co.	
Altoona, Pa. 16603-0112	
(814) 944-1631 FAX (814) 944-1635 altoonapipenandsteel.com	
DESCRIPTION	JOB No.
TOWER 1 PLANS & ELEVATIONS	3-21051
DATE	DWG No.
06/23/2009	TMAC
DRAWN BY	DRG No.
TMAC	E1



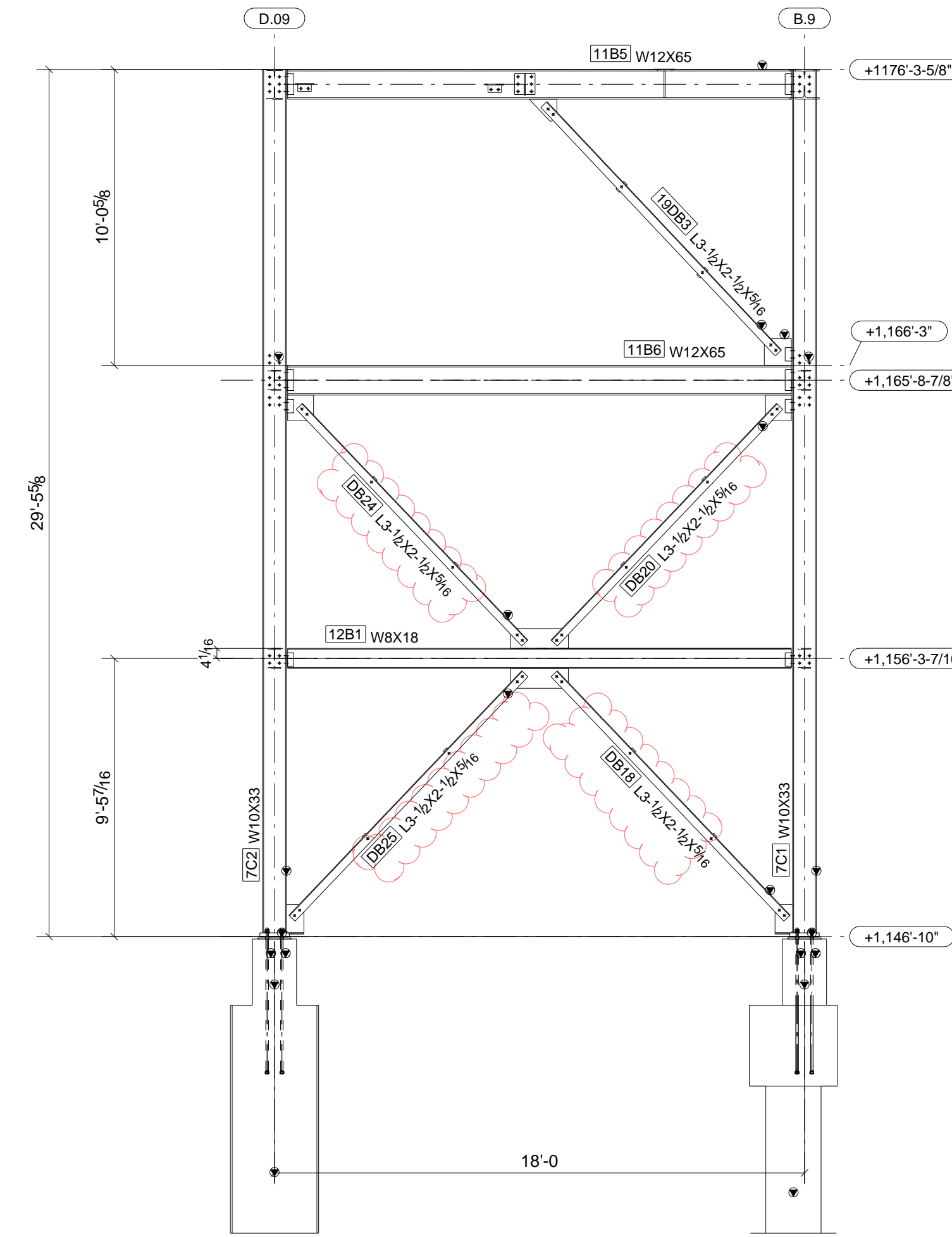
TOWER 2 NORTH ELEVATION
ALL BRACING LLV - TYP UNLESS NOTED



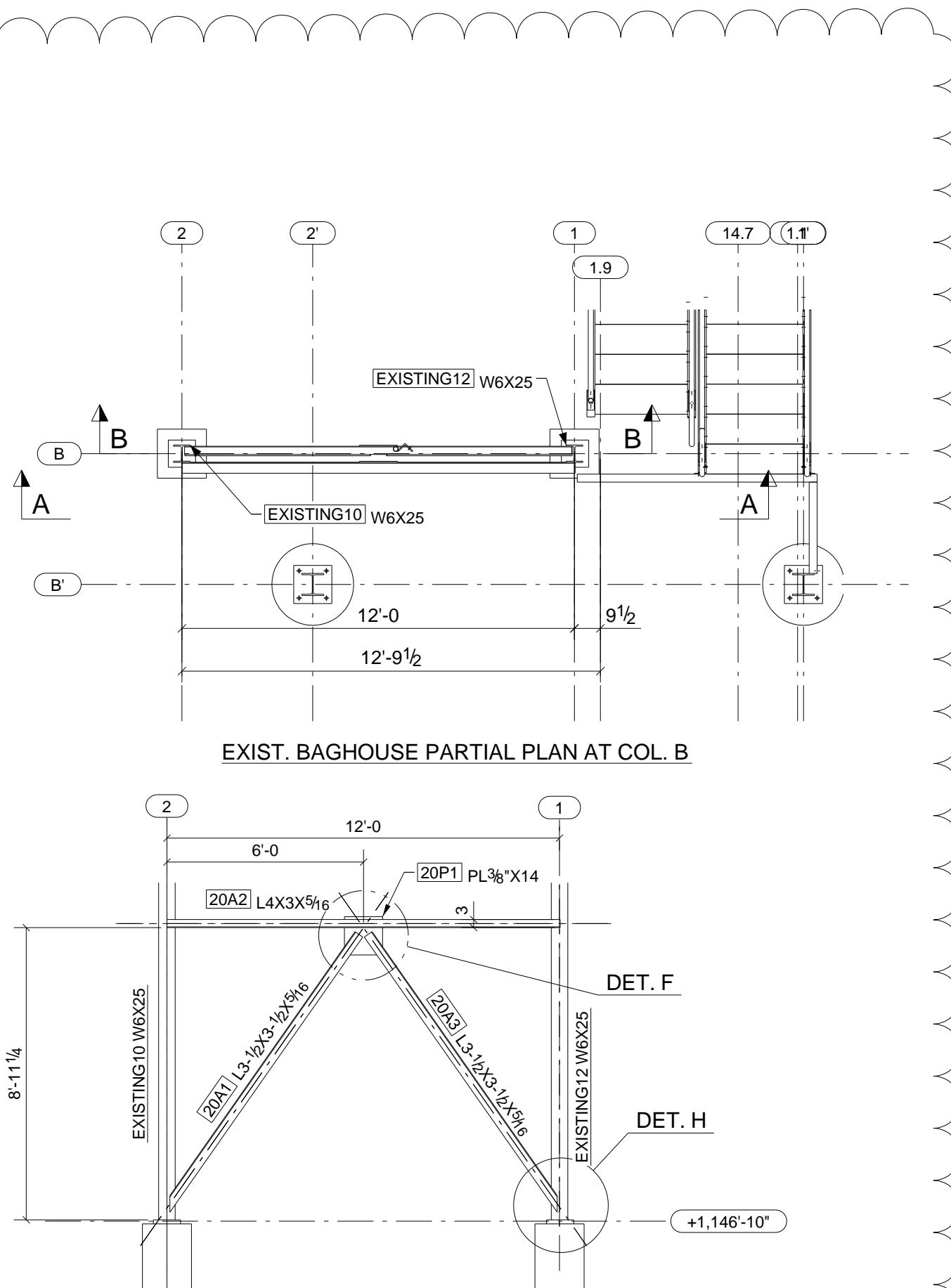
TOWER 2 EAST ELEVATION
ALL BRACING LLV - TYP UNLESS NOTED



TOWER 2 SOUTH ELEVATION
ALL BRACING LLV - TYP UNLESS NOTED

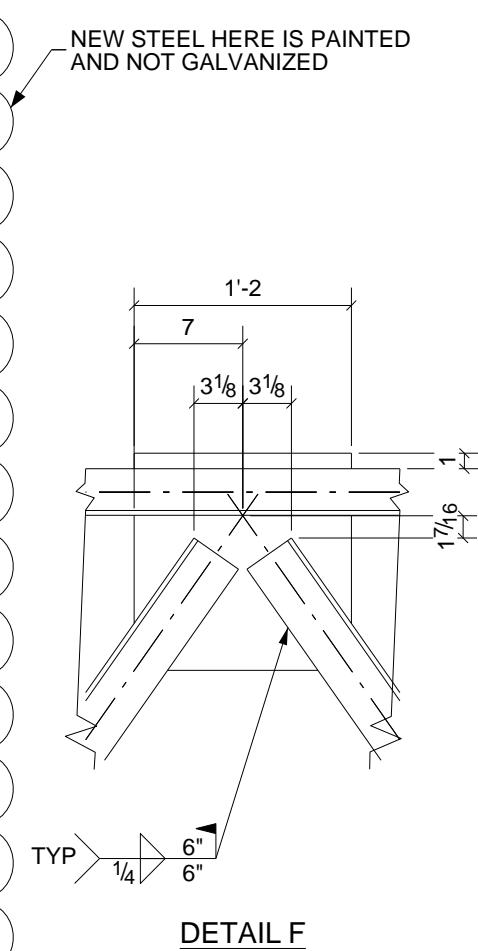


TOWER 2 WEST ELEVATION
ALL BRACING LLV - TYP UNLESS NOTED

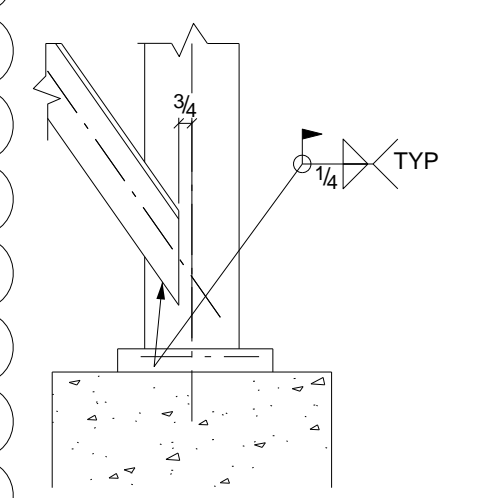


EXIST. BAGHOUSE PARTIAL PLAN AT COL. B

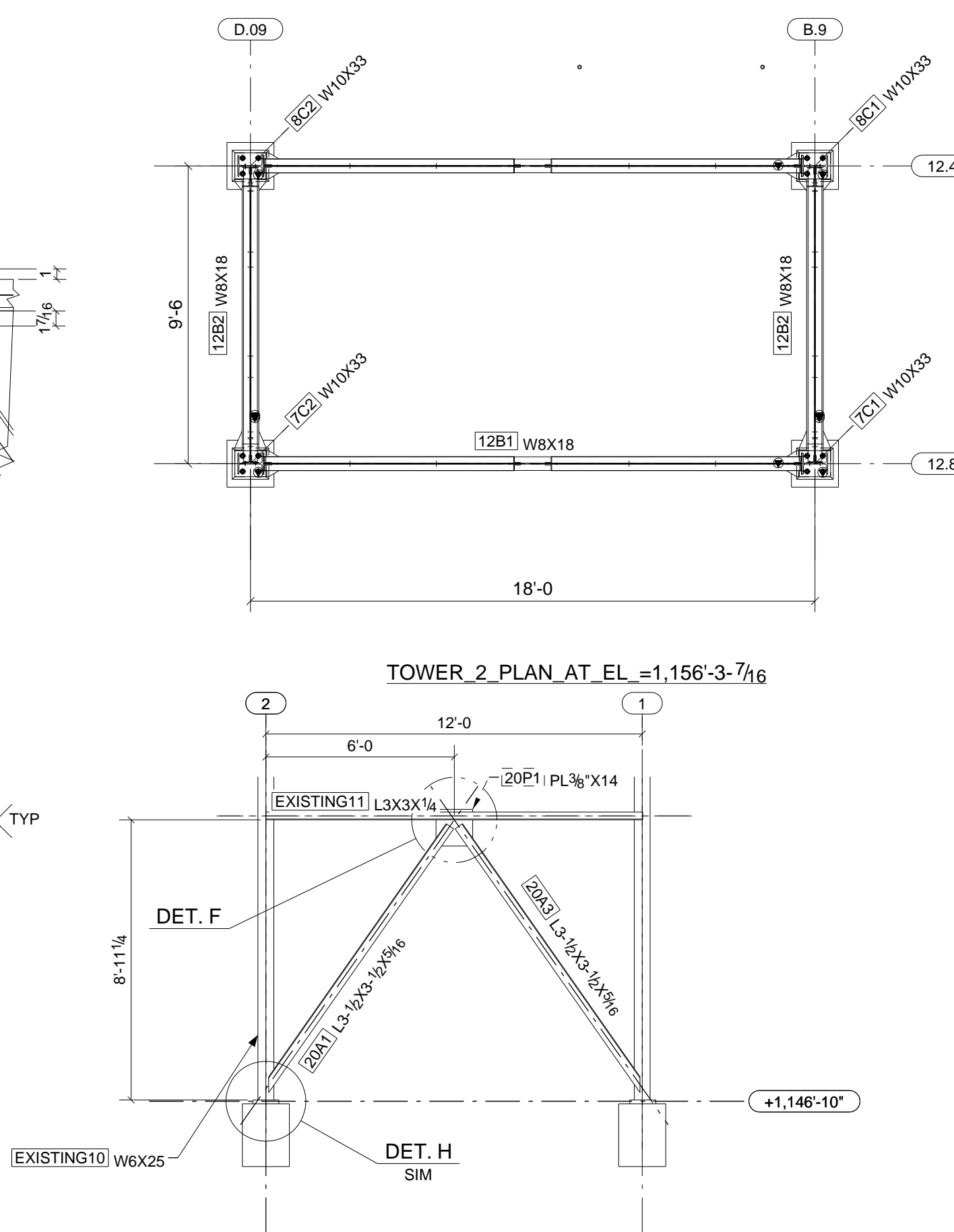
SECTION - A - A



DETAIL F

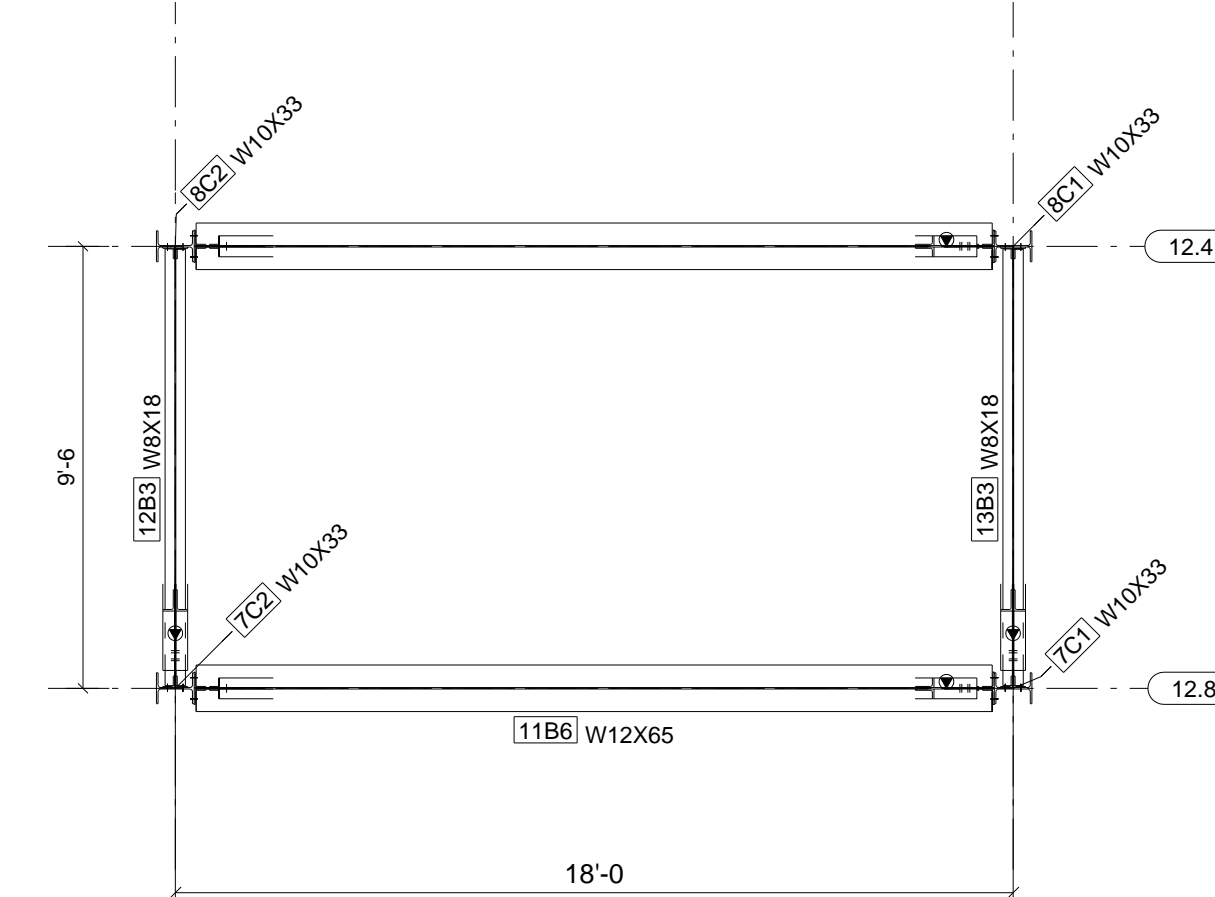


DETAIL H

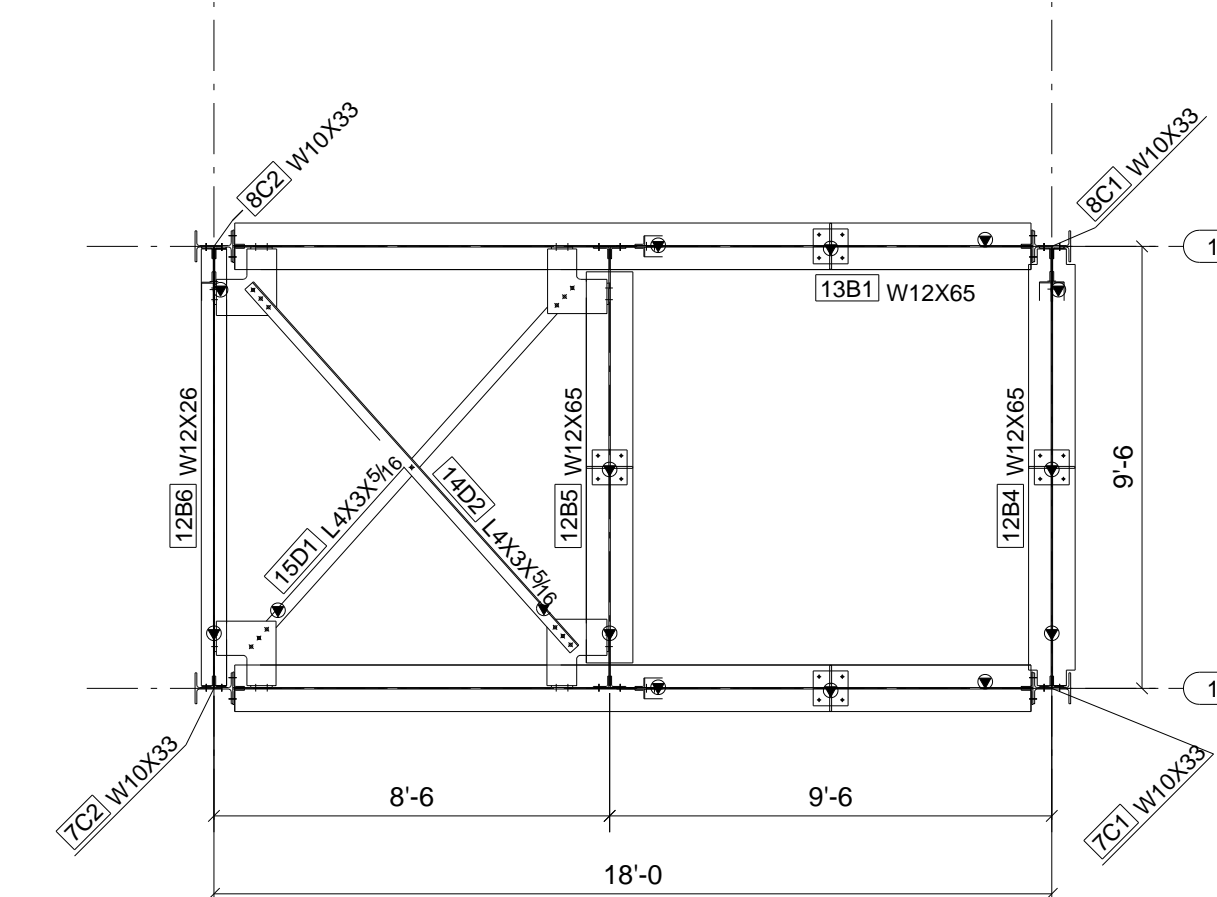


TOWER 2 PLAN AT EL. = 1,156'-3-7/16"

SECTION - B - B



TOWER 2 PLAN AT EL. = 1,165'-8-7/8"



TOWER 2 PLAN AT EL. = 1,176'-3-5/8"
ALL BRACING LLV - TYP UNLESS NOTED

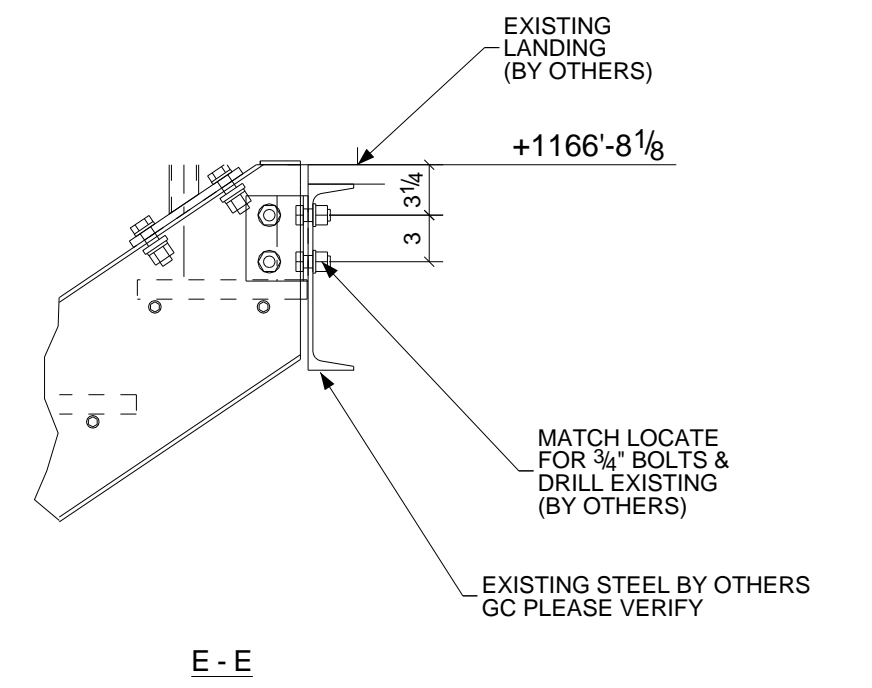
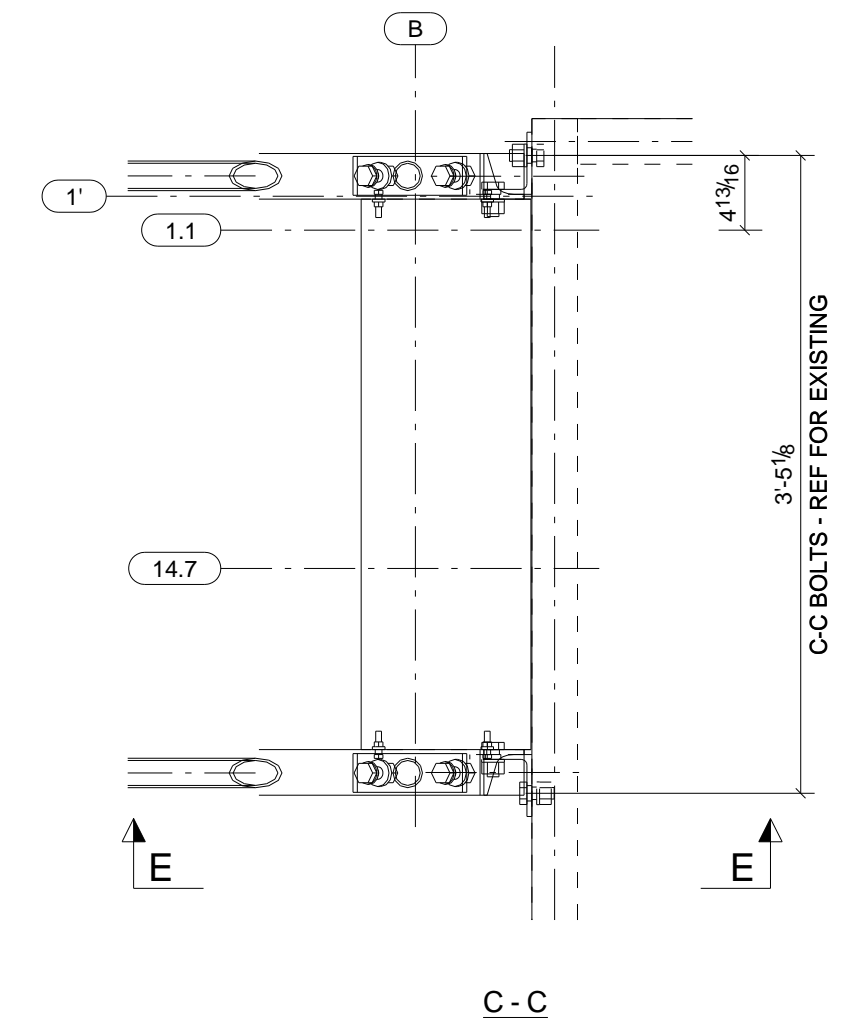
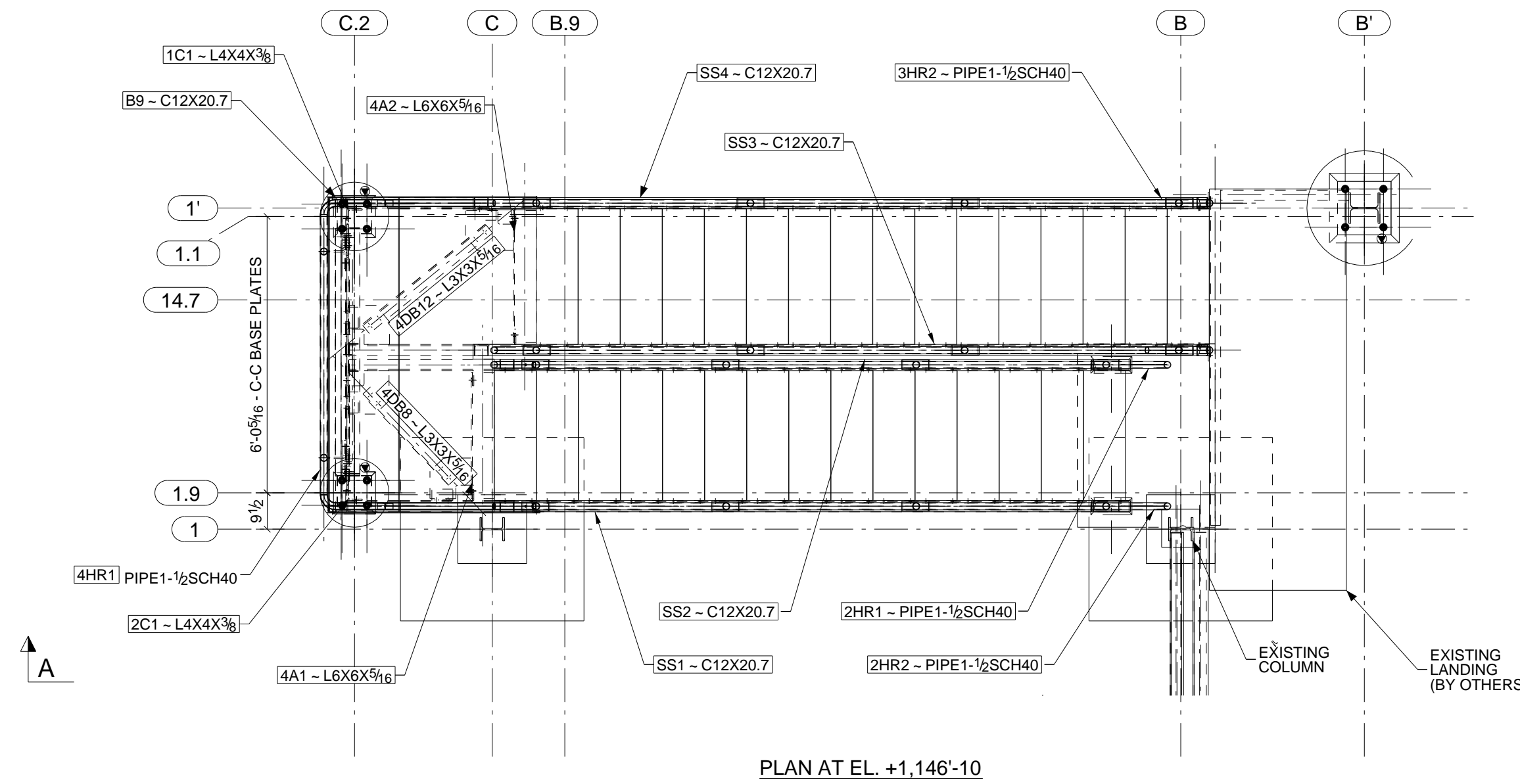
This project shall be erected in accordance with Section 7 of the AISC Code of Standard Practice which includes T14 Connection of Steel. Notations: The connection of minor details by moderate means, grinding, welding or cutting and the drawing of elements into the web with pins, shall be considered to be normal erection operations. Errors that cannot be corrected using the foregoing means, or that require changes, in order to construct the erection, shall be promptly reported to the owner's representatives for design and construction. The fabricator by the erection is made the responsible party to either correct the error or approve the most efficient and economical method of correction to be used by others.

All field welds to be made with E70XX gas hydrogen electrodes.

STEEL ASTM	A992	UND	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UND	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / B	UND	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UND	ARCHITECT	H F Lenz Company
BOLTS	A325N	UND		
TMC	PAIN	UND		

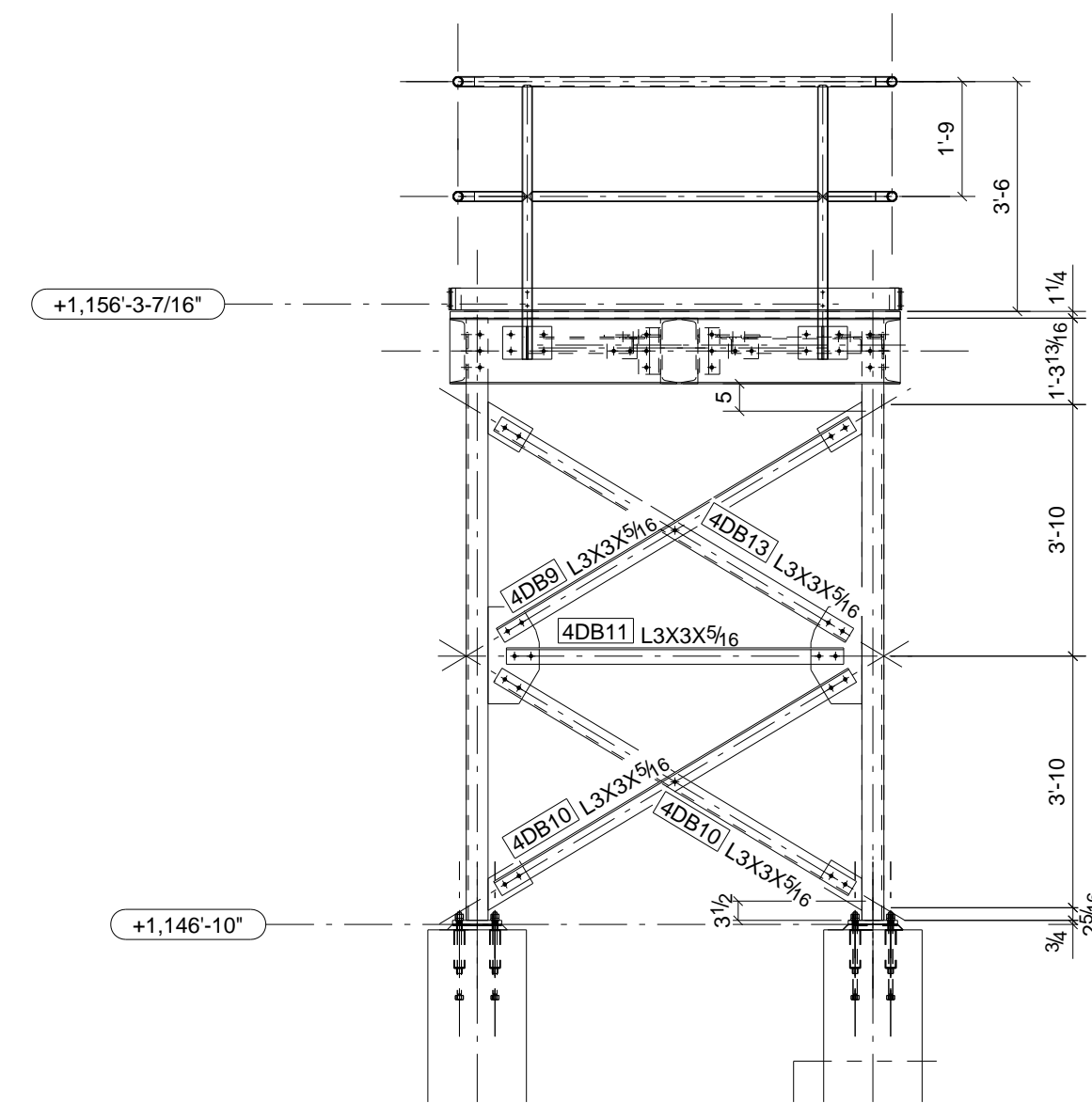
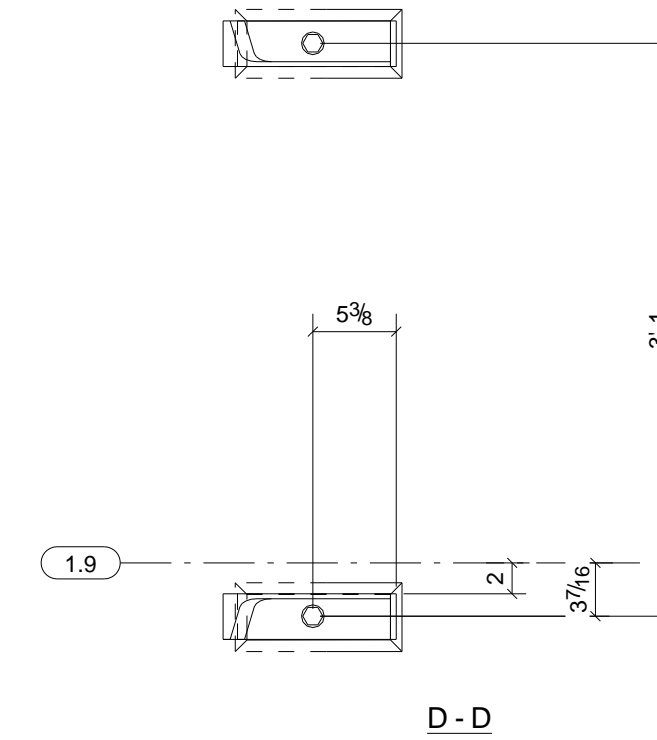
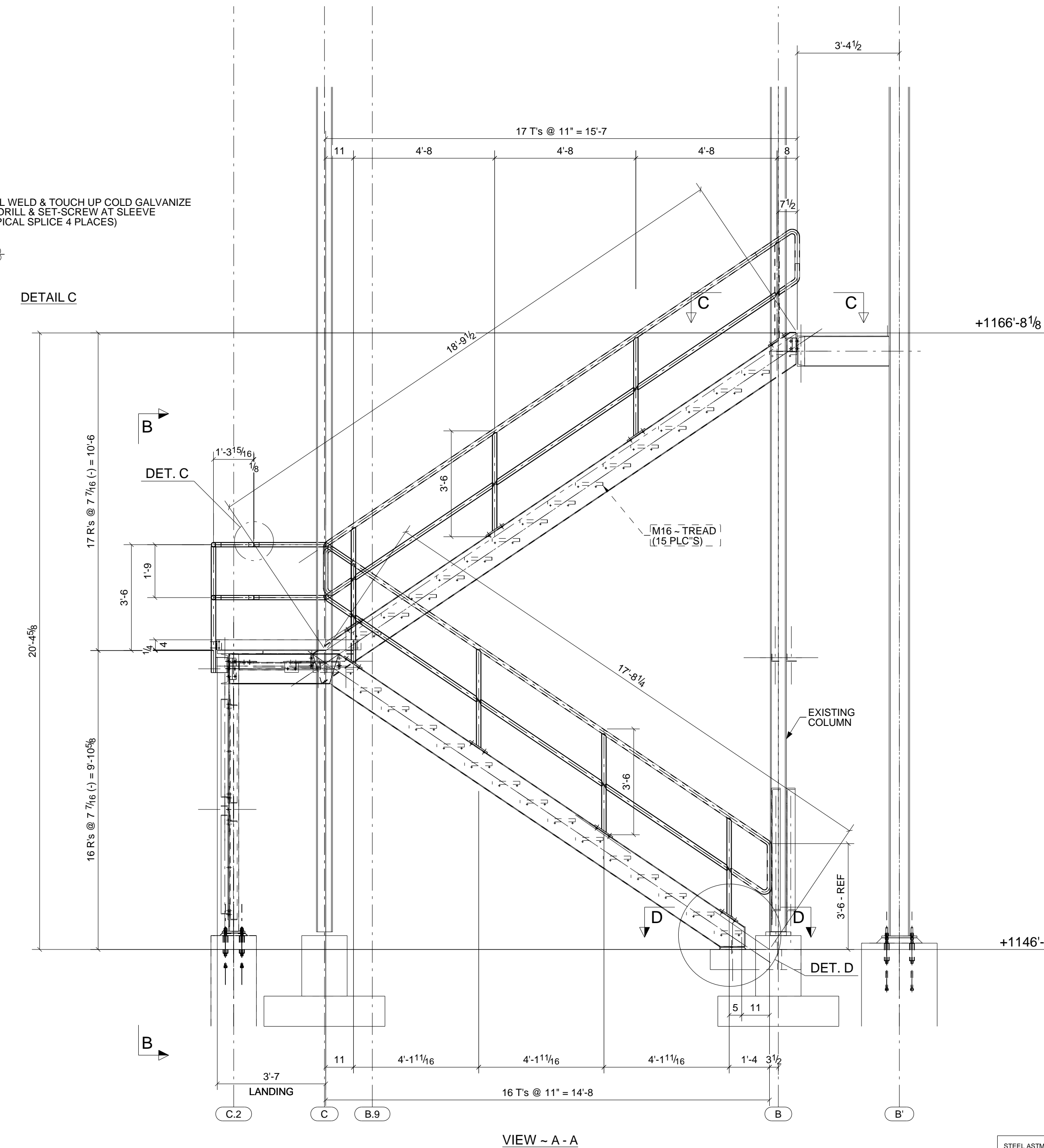
Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112

DATE	06/23/2009	JOB No.	3-21051
NO.		DRAWING	TOWER 2 PLANS & ELEVATIONS
DESCRIPTION		DATE	06/23/2009
BY		DRWN	TMAC
FOR APPROVAL		CHKD	
DATE	7/17/09	APPD	

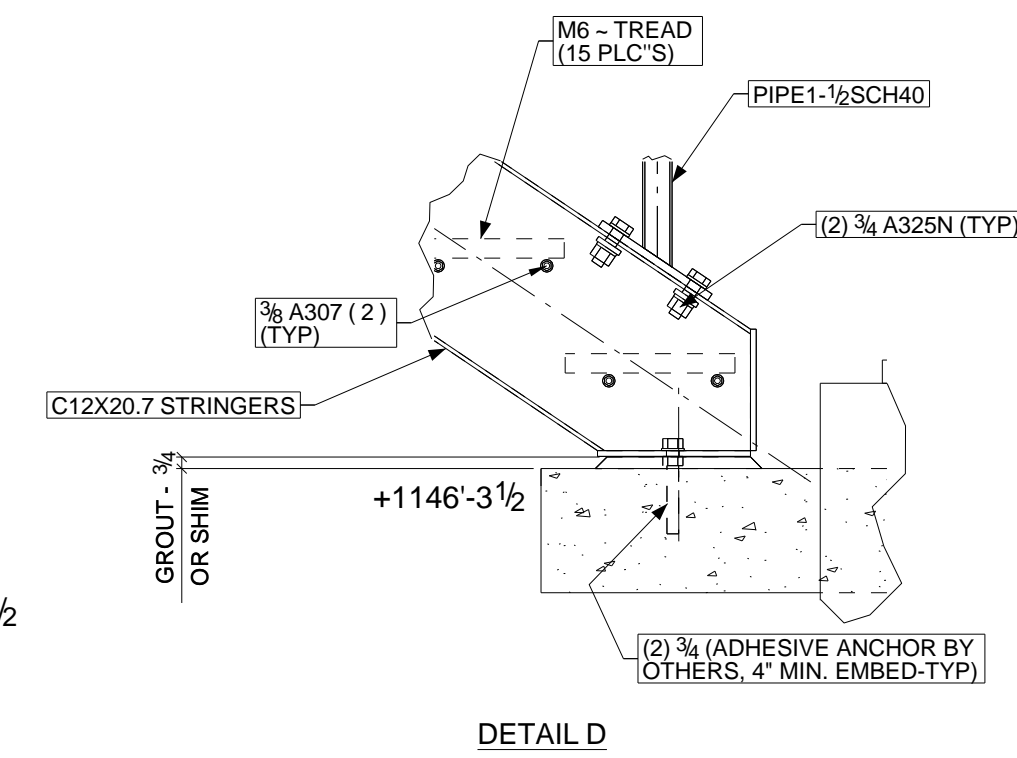


SEAL WELD & TOUCH UP COLD GALVANIZE OR DRILL & SET SCREW AT SLEEVE (TYPICAL SPLICE 4 PLACES)

DETAIL C



VIEW - B - B

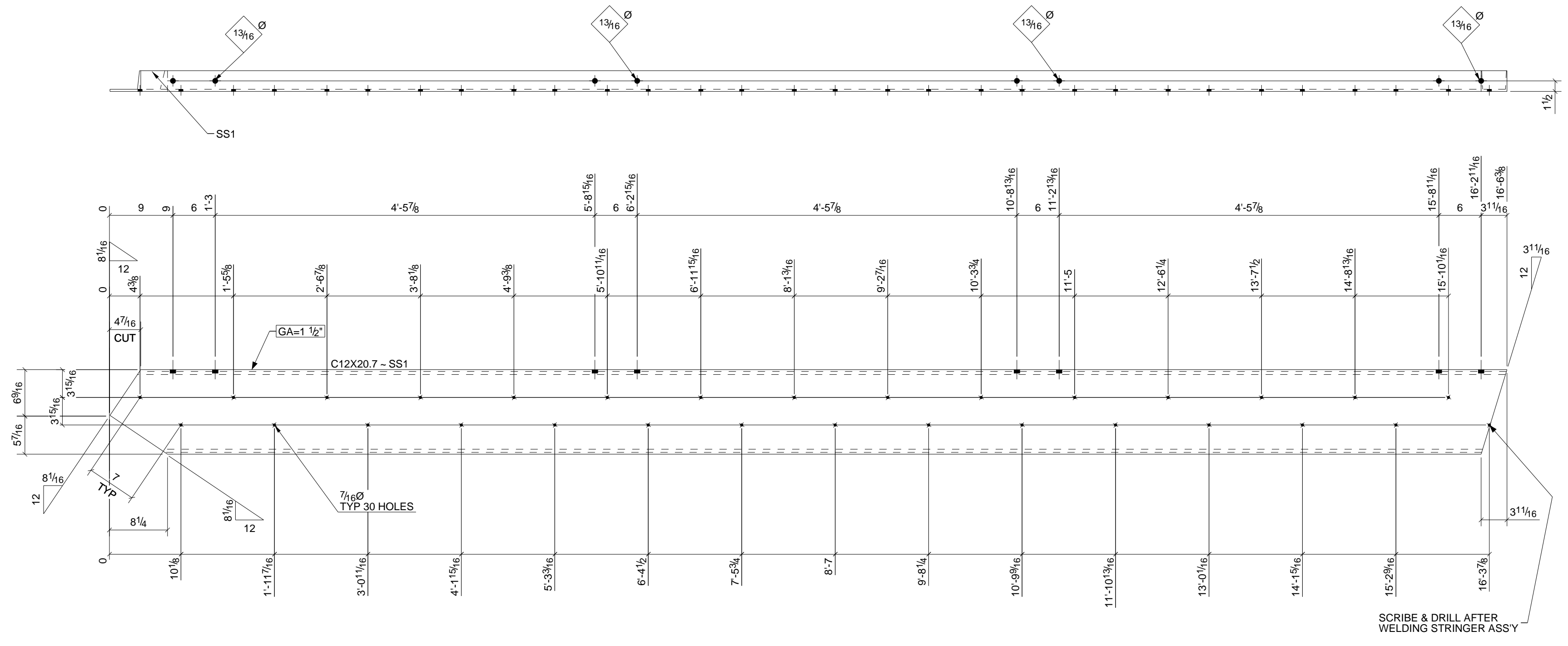


This project shall be erected in accordance with Section 7 of the AISC Code of Standard Practice, which includes 718 Correction of Errors. It states the following:
 The contractor of minor errors by accurate reworking, grinding, cutting or cutting, and the drawing of members into line with other parts, and so corrected to be correct.
 minor errors which do not affect the structural integrity, shall be promptly reported to the architect. It is the contractor's responsibility to verify the accuracy of the most efficient and economical method of correction to be used by others.
 All steel work to be made with E70xx low hydrogen electrodes.

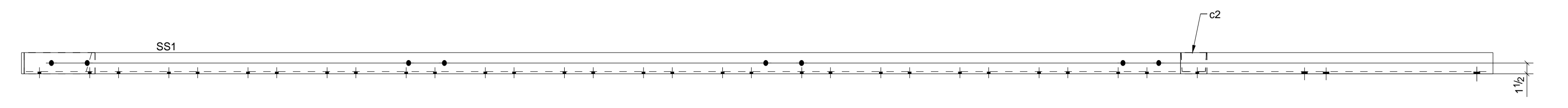
STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Filler / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO		
TMC PAINT PER SPEC/GC	UNO		

Altoona Pipe And Steel Supply Co.	
Altoona, Pa 16603-0112	
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com	
DESCRIPTION	STAIR S1 FRAMING AT EXISTING BACHOUSE
DATE	06/01/2009
DRAWN BY	TMAC
JOB NO.	3-21051
DRG NO.	S1

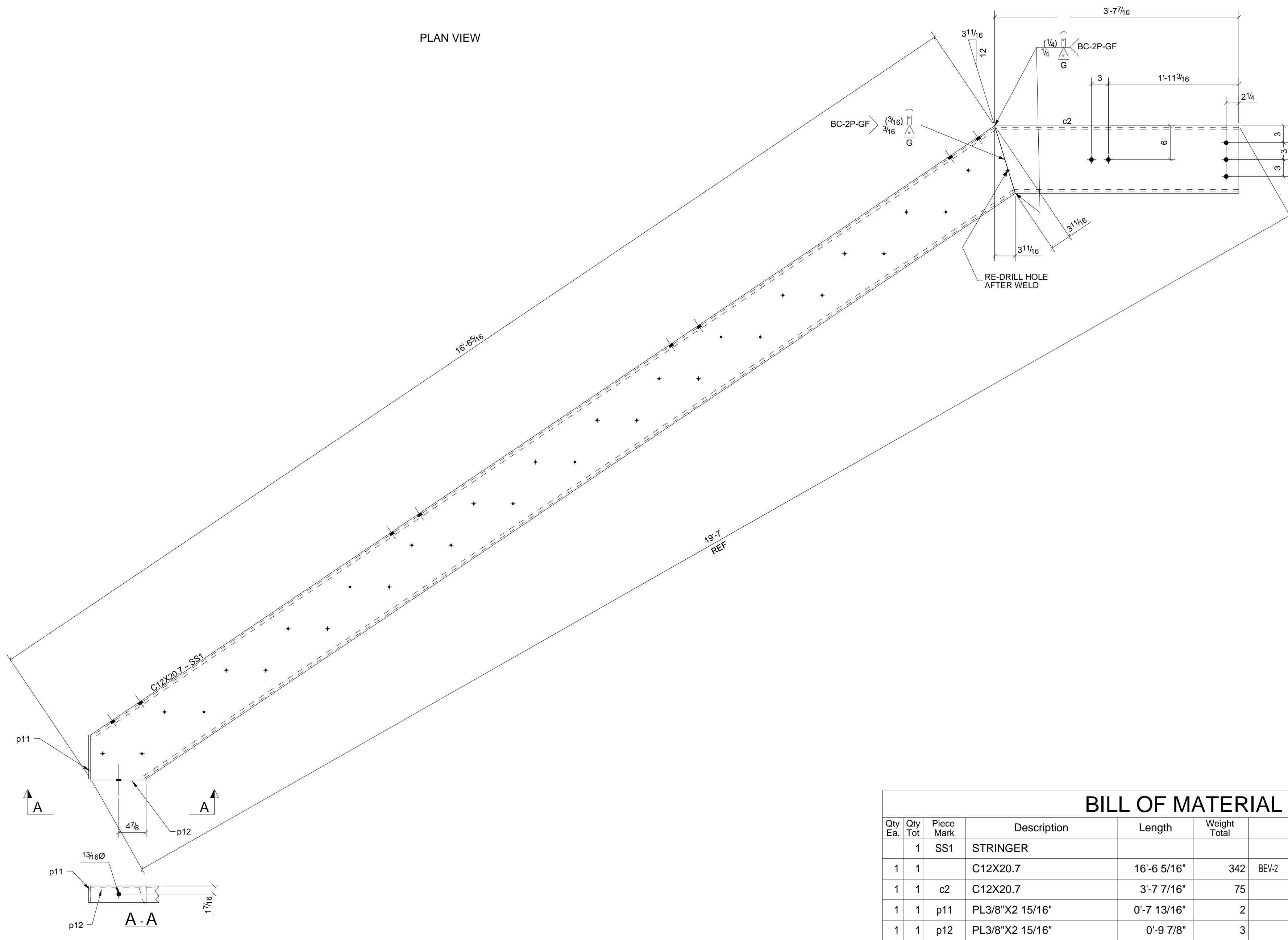
DATE	NO.	DESCRIPTION	BY
6/22/09	1	For Approval	TMC
7/17/09	2	For Fabrication F&F	TMC



DETAIL - SS1



PLAN VIEW



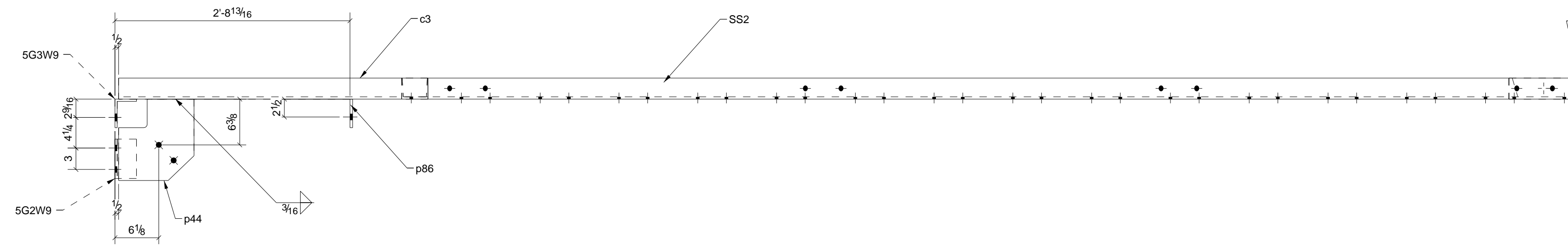
ONE - STRINGER - SS1

- GENERAL NOTES**
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 - 4) 1/2" EDGE DISTANCE U.N..
 - 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 - 2) GRIND ALL ROUGH EDGES SMOOTH.
 - 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

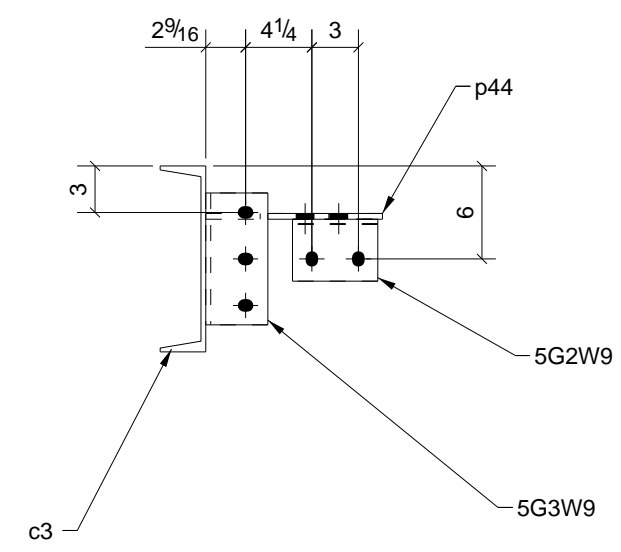
BILL OF MATERIAL						
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks
	1	SS1	STRINGER			
1	1		C12X20.7	16'-6 5/16"	342	BEV2
1	1	c2	C12X20.7	3'-7 7/16"	75	
1	1	p11	PL3/8"X2 15/16"	0'-7 13/16"	2	
1	1	p12	PL3/8"X2 15/16"	0'-9 7/8"	3	

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / Butt	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO		
PAINT	PER SPEC/GC	UNO		

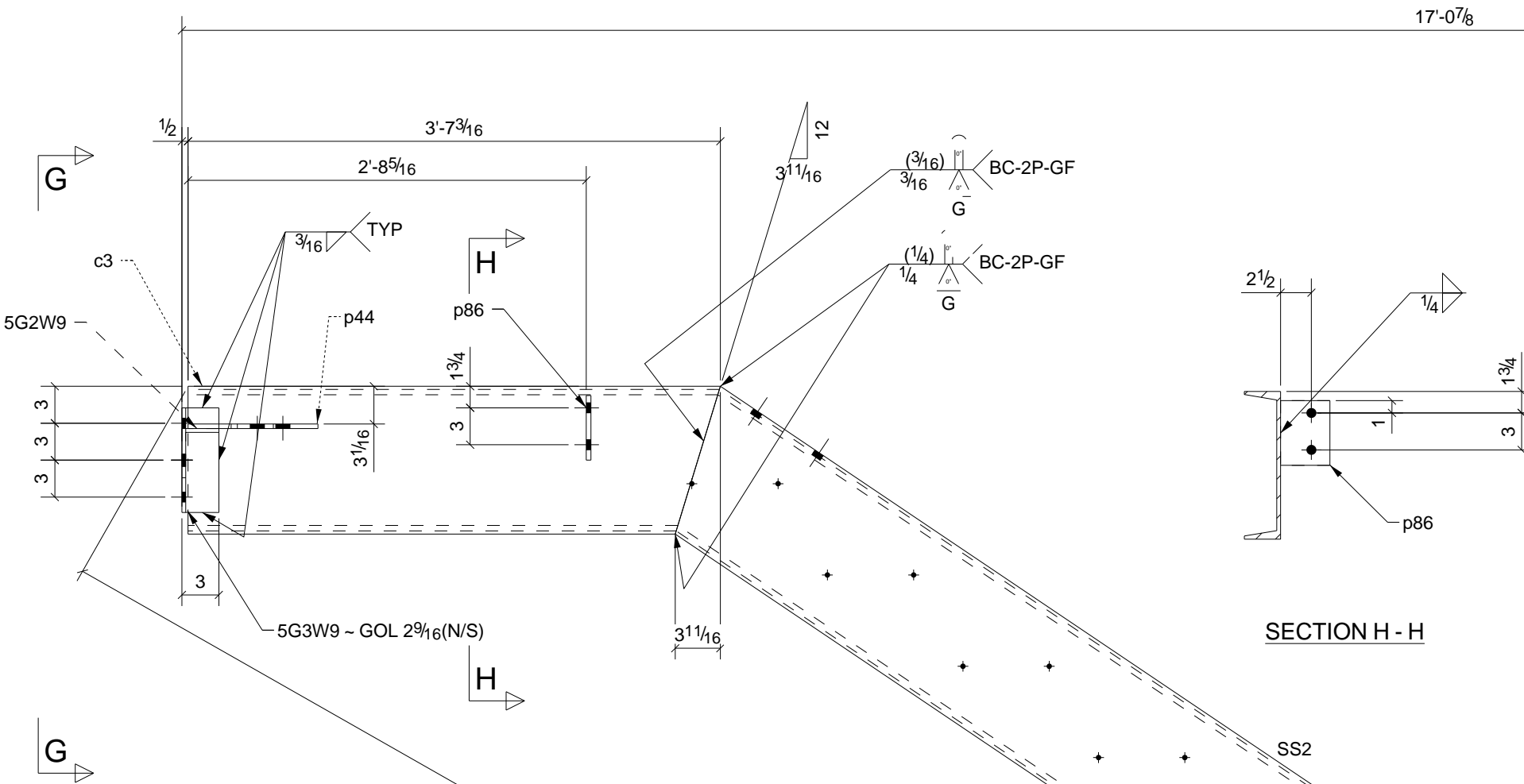
6/22/09	For Approval	TMG
7/17/09	For Fabrication F&F	
DATE	NO.	DESCRIPTION
Altoona Pipe And Steel Supply Co. Altoona, Pa 16603-0112 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		
DESCRIPTION	DATE	JOB No.
STAIR STRINGER	06/19/2009	3-21051
DRAWN BY	DATE	DRG No.
TMAC		SS1



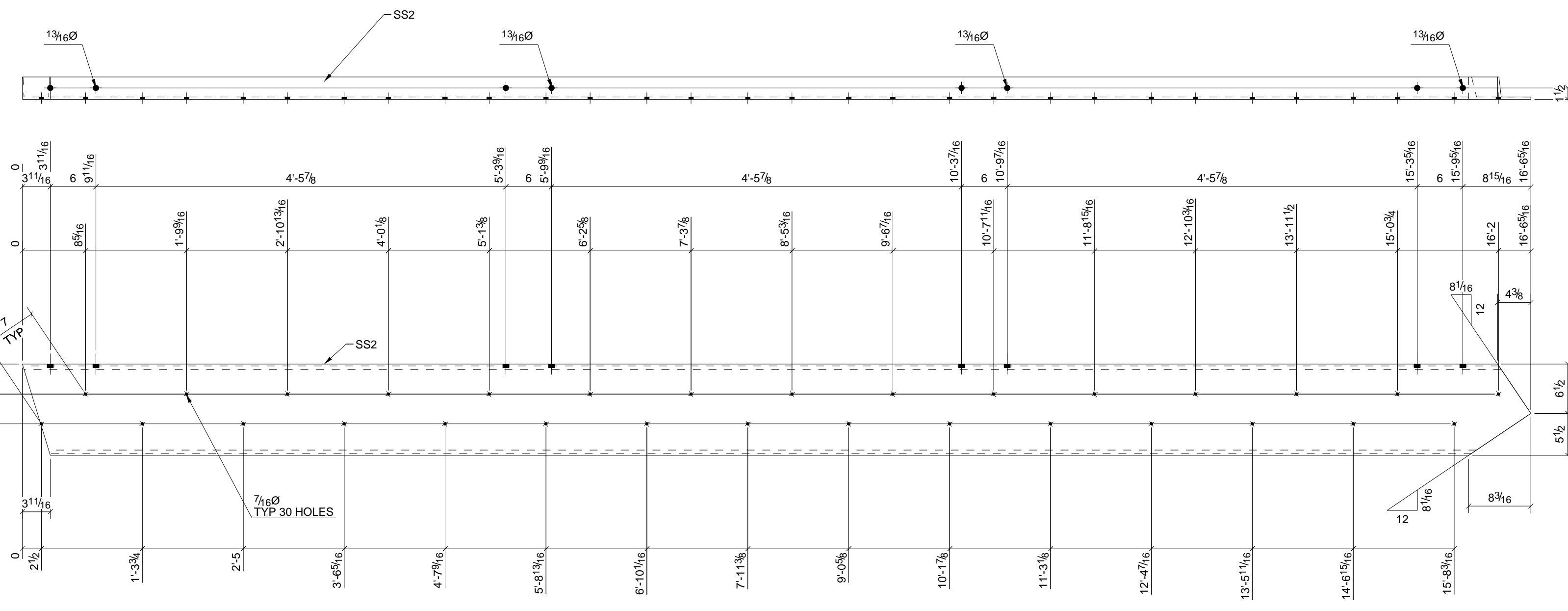
PLAN VIEW



SECTION G - G



SECTION H - H



DETAIL - SS2

10'-6 3/4 REF

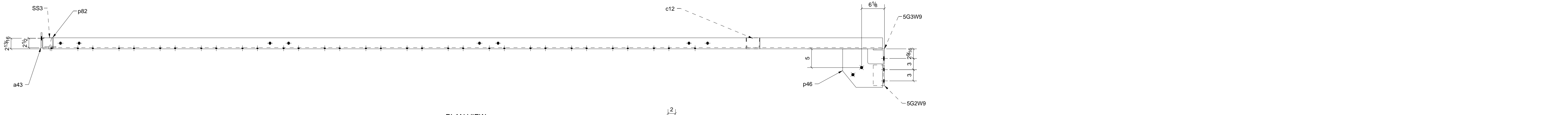
ONE - STRINGER - SS2

- GENERAL NOTES
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 - 4) 1/4" EDGE DISTANCE U.N.
 - 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 - 2) GRIND ALL ROUGH EDGES SMOOTH.
 - 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

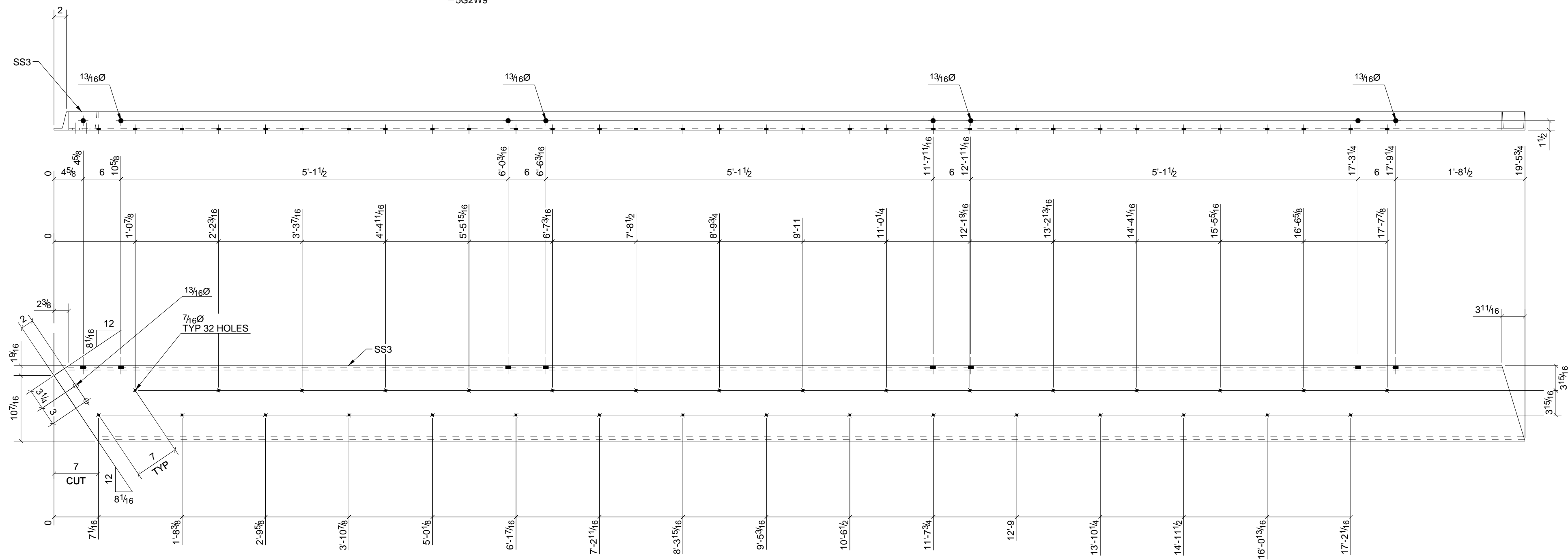
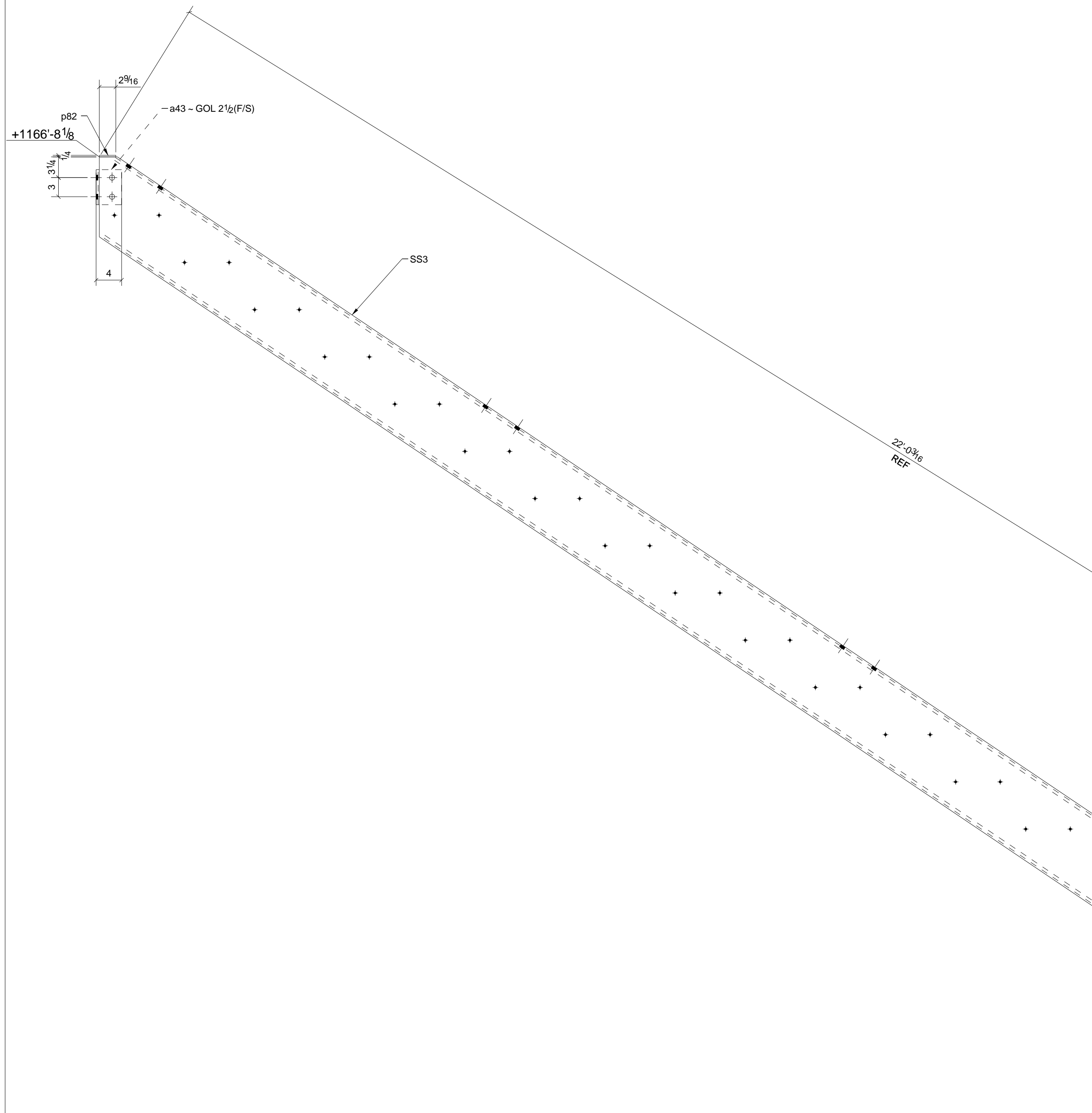
BILL OF MATERIAL								
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
	1	SS2	STRINGER					
1	1		C12X20.7	16'-6 5/16"	342	BEV-2		A36
1	1	5G2W9	L4X3X5/16	0'-5 1/2"	3			A36
1	1	5G3W9	L4X3X5/16	0'-8 1/2"	5			A36
1	1	c3	C12X20.7	3'-7 3/16"	74			A36
1	1	p11	PL3/8"X2 15/16"	0'-7 13/16"	2			A36
1	1	p12	PL3/8"X2 15/16"	0'-9 7/8"	3			A36
1	1	p44	PL3/8"X10 9/16"	0'-11 3/8"	10			A36
1	1	p86	FL3/8"X4"	0'-5 1/4"	2			A36

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / Butt	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO		
PAINT	PER SPEC/GC	UNO		

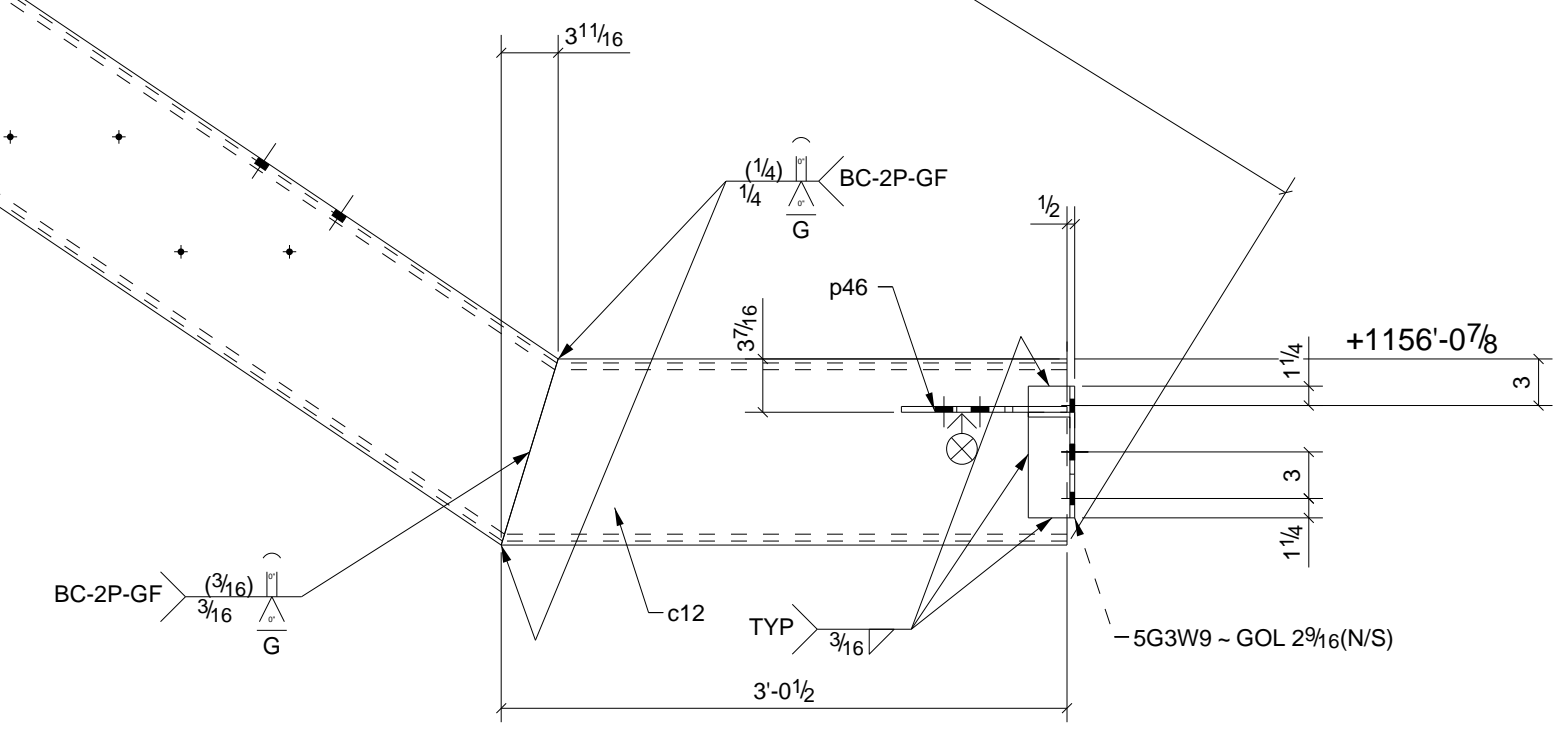
6/22/09	For Approval	TMc	
7/17/09	For Fabrication F&F	TMc	
DATE	NO.	DESCRIPTION	BY
Altoona Pipe And Steel Supply Co. Altoona, Pa 16603-0112 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com			
DESCRIPTION	DATE	JOB No.	
STAIR STRINGER	06/19/2009	3-21051	
	DRAWN BY	DRG No.	
	TMAC	SS2	



PLAN VIEW



DETAIL ~ SS3



ONE - STRINGER - SS3

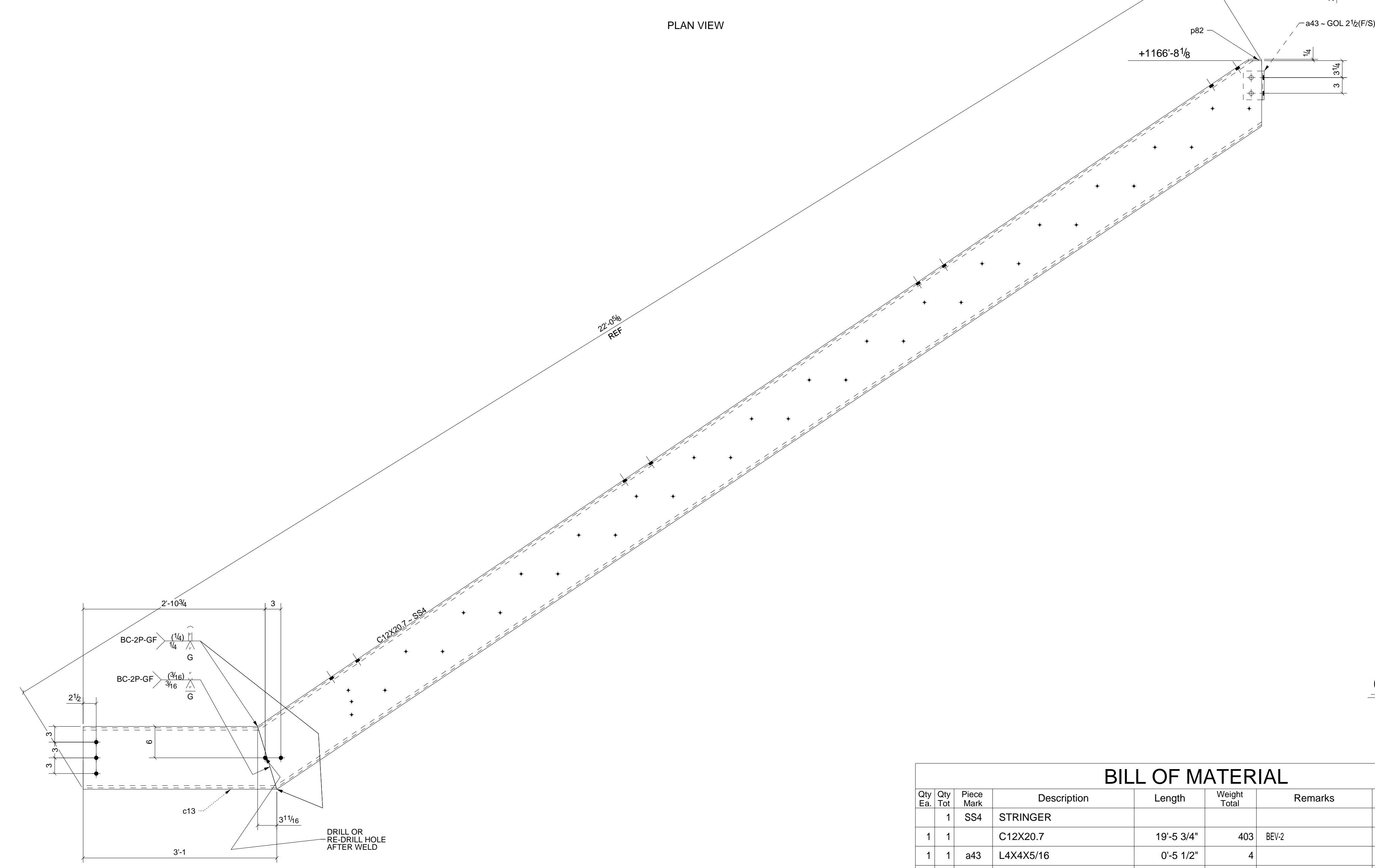
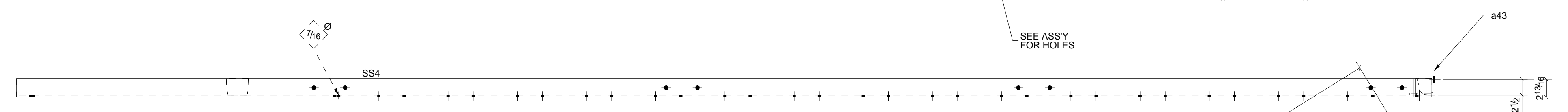
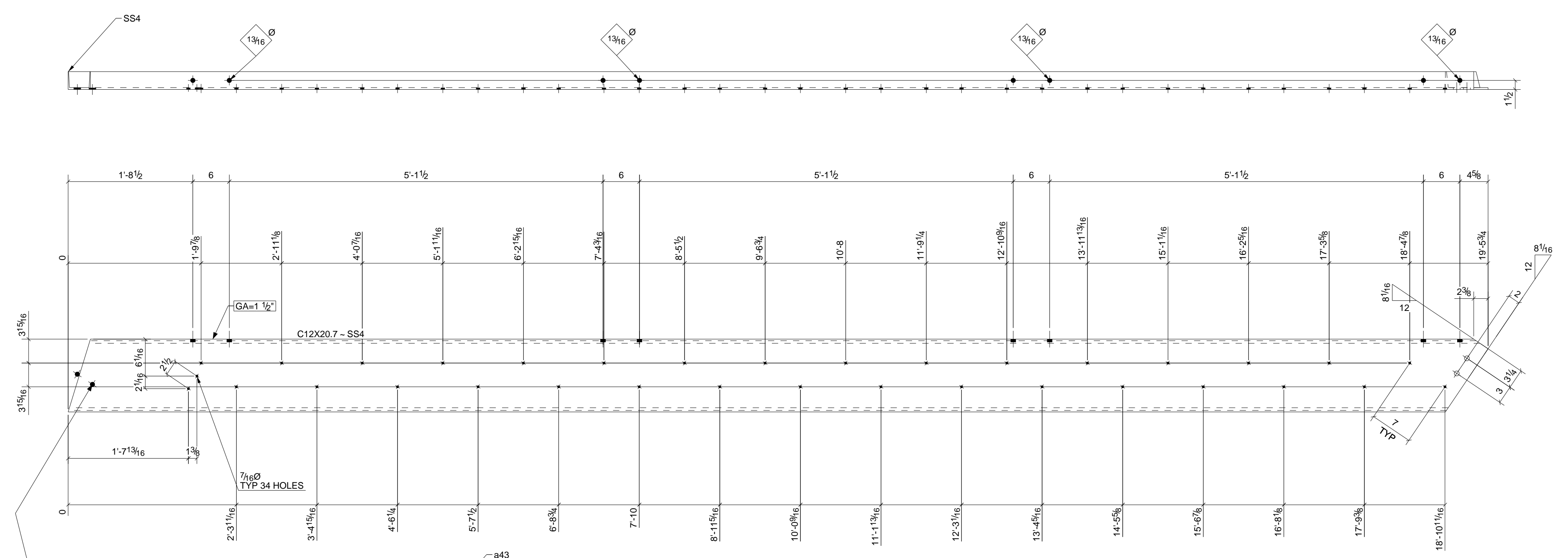
BILL OF MATERIAL								
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv Mill #	Steel Grade
1	1	SS3	STRINGER					
1	1		C12X20.7	19'-5 3/4"	403	BEV-2		A36
1	1	5G2W9	L4X3X5/16	0'-5 1/2"	3			A36
1	1	5G3W9	L4X3X5/16	0'-8 1/2"	5			A36
1	1	a43	L4X4X5/16	0'-5 1/2"	4			A36
1	1	c12	C12X20.7	3'-0 1/2"	63			A36
1	1	p46	PL3/8"X10 1/4"	0'-10 11/16"	9			A36
1	1	p82	PL1/4"X2 9/16"	0'-2 15/16"	1			A36
2	2		3/4"Ø A325N BOLT	0'-1 3/4"	1			

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / Butt	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO		
PAINT	PER SPEC/GC	UNO		

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 4) 1/4" EDGE DISTANCE U.N.
 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 2) GRIND ALL ROUGH EDGES SMOOTH.
 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

6/22/09	For Approval	TMc
7/17/09	For Fabrication F&F	TMc
DATE	NO.	DESCRIPTION
Altoona Pipe And Steel Supply Co. Altoona, Pa 16603-0112 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		
DESCRIPTION	DATE	JOB No.
STAIR STRINGER	06/20/2009	3-21051
DRAWN BY	DATE	DRG No.
TMAC		SS3



ONE - STRINGER - SS4

- GENERAL NOTES**
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.
 - 2) GRIND ALL ROUGH EDGES SMOOTH.
 - 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 - 4) 1/2" EDGE DISTANCE U.N..
 - 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.

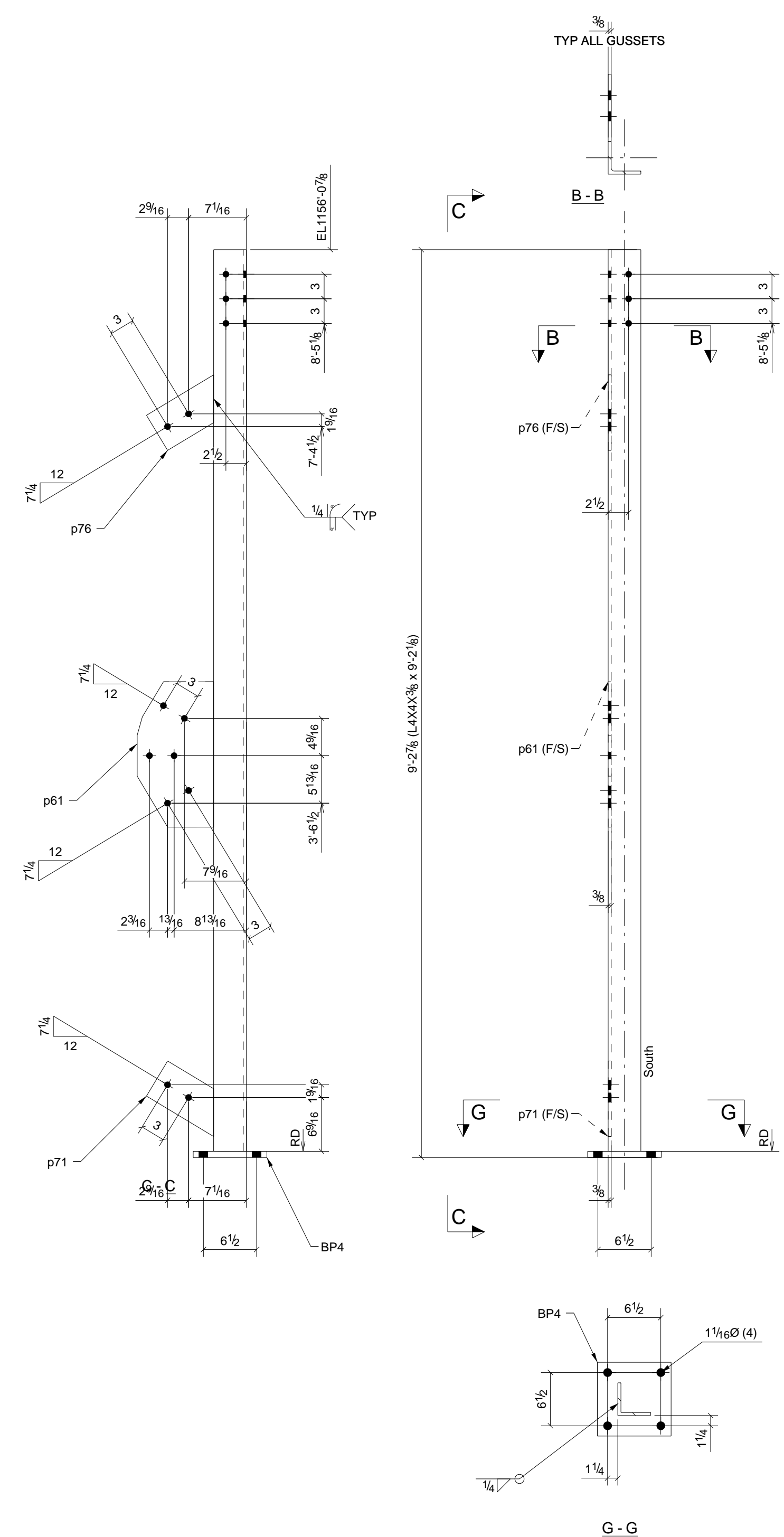
BILL OF MATERIAL							
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Steel Grade
1	1	SS4	STRINGER	19'-5 3/4"	403	BEV-2	A36
1	1	a43	L4X4X5/16	0'-5 1/2"	4		A36
1	1	c13	C12X20.7	3'-1"	64		A36
1	1	p82	PL1/4"X2 9/16"	0'-2 15/16"	1		A36
2	2		3/4"Ø A325N BOLT	0'-1 3/4"	1		

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / Butt	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO		
PAINT	PER SPEC/GC	UNO		

6/22/09	For Approval	TMc
7/17/09	For Fabrication F&F	TMc
DATE	NO.	DESCRIPTION
Altoona Pipe And Steel Supply Co.		
Altoona, Pa 16603-0112		
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		
DESCRIPTION	DATE	JOB No.
STAIR STRINGER	06/20/2009	3-21051
DRAWN BY	DRG No.	
TMAC	SS4	

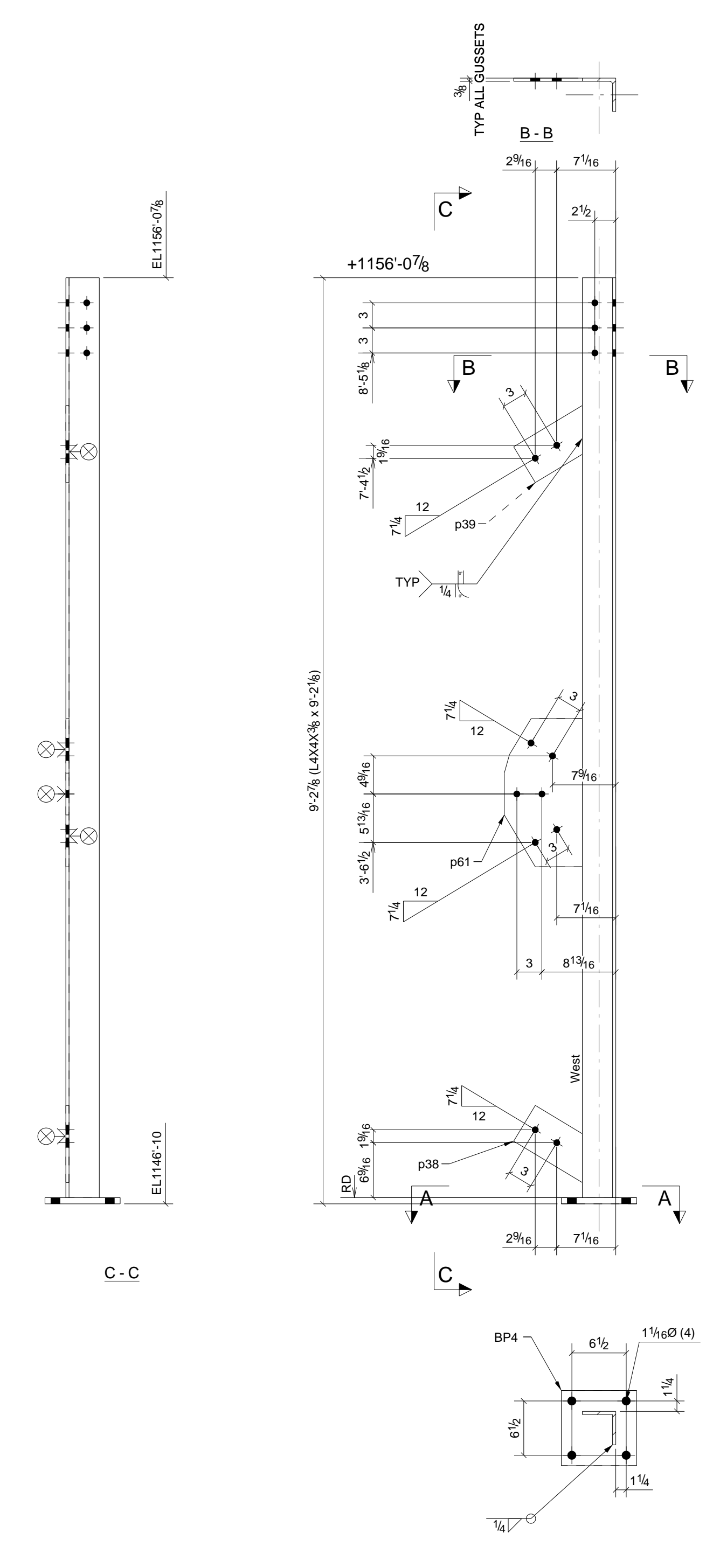
BILL OF MATERIAL

Qty	Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot	Mark			Total		Mat #	Grade
1	1	1C1	COLUMN					
1	1		L4X4X3/8	9'-2 1/8"	89	SQ2		A36
1	1	BP4	FL3/4"X9"	0'-9"	17			A36
1	1	p38	FL3/8"X5"	0'-9 9/16"	4			A36
1	1	p39	FL3/8"X5"	0'-9 9/16"	4			A36
1	1	p61	PL3/8"X9 5/16"	1'-5 3/4"	15			A36
1	1	2C1	COLUMN					
1	1		L4X4X3/8	9'-2 1/8"	89	SQ2		A36
1	1	BP4	FL3/4"X9"	0'-9"	17			A36
1	1	p61	PL3/8"X9 5/16"	1'-5 3/4"	15			A36
1	1	p71	FL3/8"X5"	0'-9 9/16"	4			A36
1	1	p76	FL3/8"X5"	0'-9 9/16"	4			A36



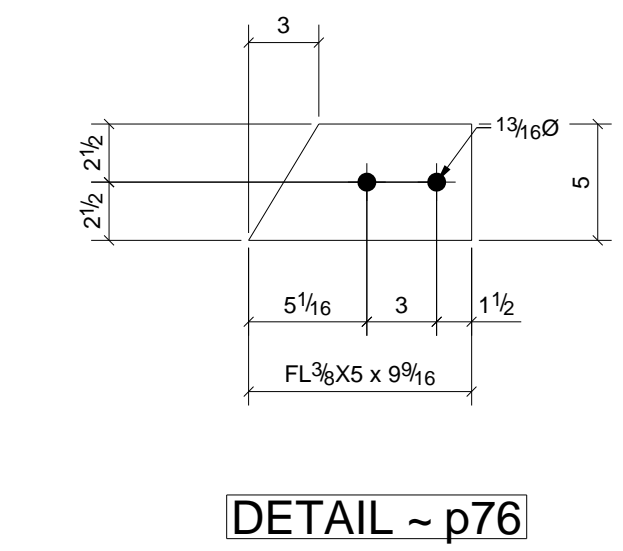
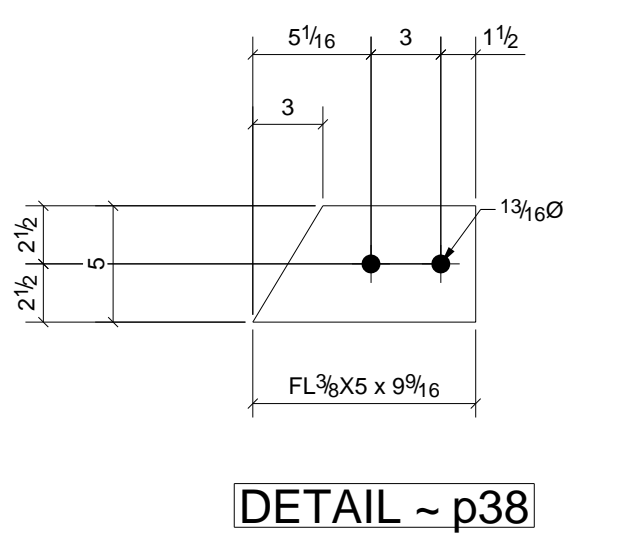
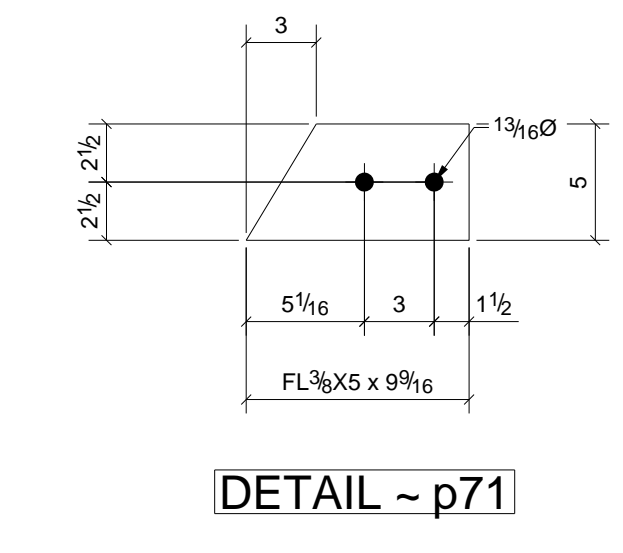
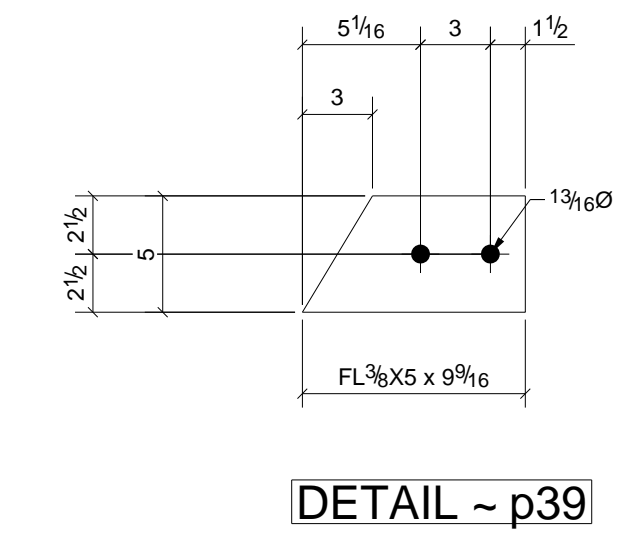
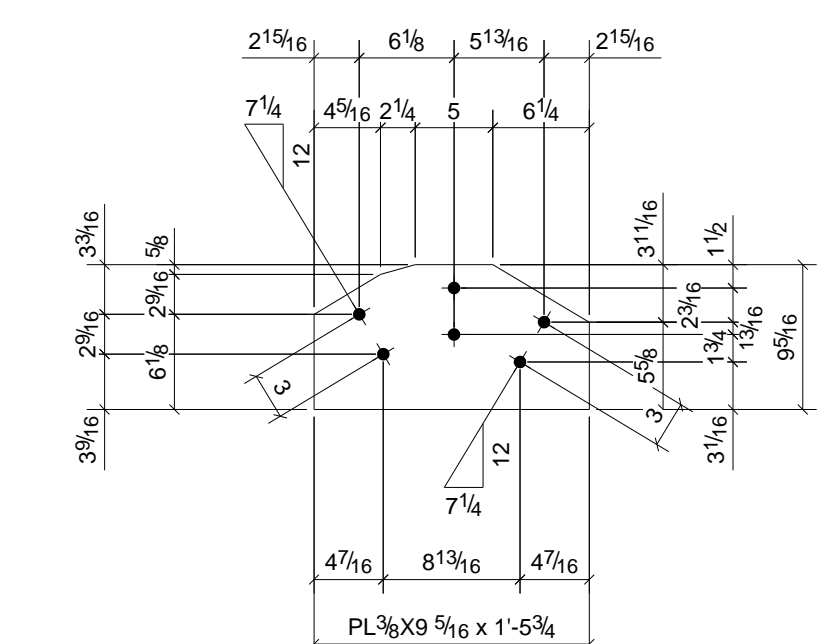
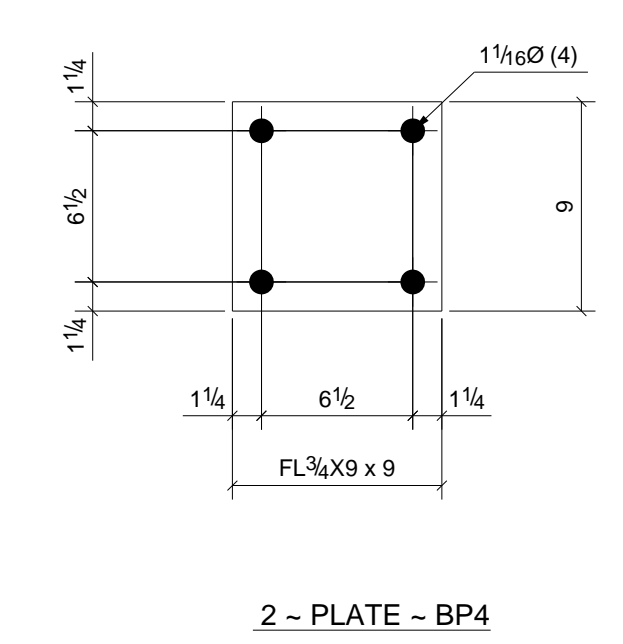
GRID LOCATION: 2-A'-B'
BOTTOM ELEVATION: 1146'-10"

ONE - COLUMN - 2C1



GRID LOCATION: 2-A'-B'
BOTTOM ELEVATION: 1146'-10"

ONE - COLUMN - 1C1



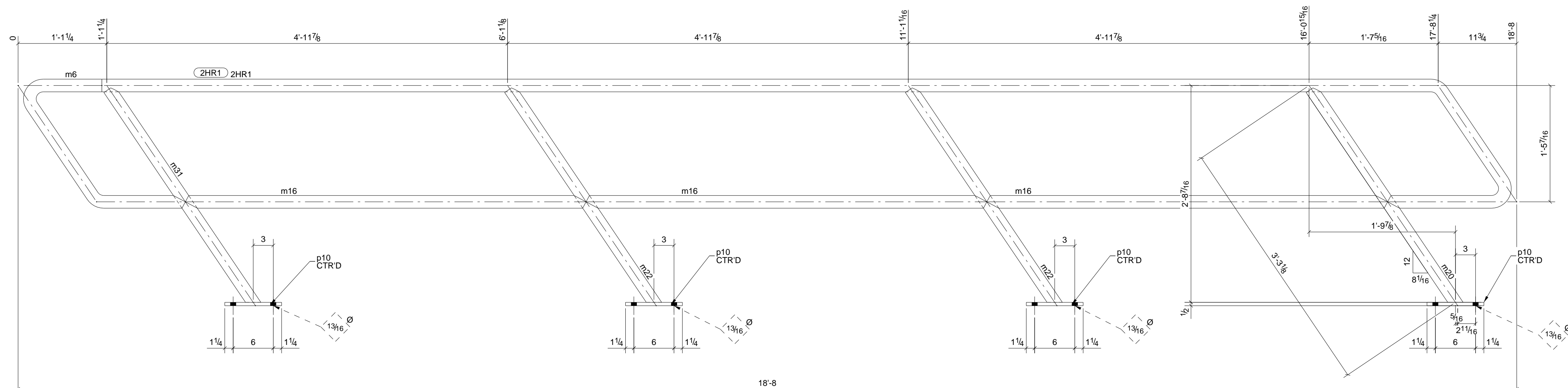
ALL 4 PLATES ARE IDENTICAL PRIOR TO WELD PREP

- GENERAL NOTES**
- ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 - 1/4" EDGE DISTANCE U.N.
 - FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 - GRIND ALL ROUGH EDGES SMOOTH.
 - ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

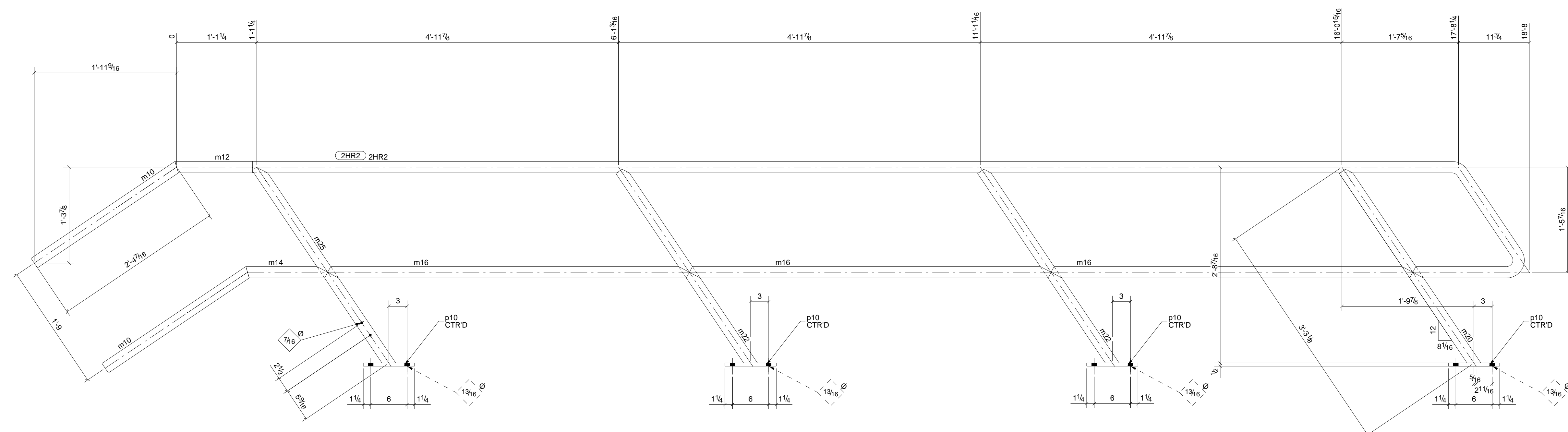
STEEL ASTM: A992	PROJECT NAME: Norfolk Southern Project	CONTRACTOR: Leonard S. Fiore
ELECTRODES: E70XX LH	LOCATION: Norfolk Southern - Altoona, Pennsylvania	ARCHITECT: H F Lenz Company
WELDS: 1/4" Fillet / B		
OPEN HOLES: 13/16		
BOLTS: A325N		
TMC: PAINT PER SPEC/GC		

Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112
(814) 944-1631 FAX (814) 944-1635 altoonapipandsteel.com

DATE: 06/21/2009
JOB No: 3-21051
DRAWN BY: TMAC
DRG No: 1



ONE - RAIL - 2HR1



ONE - RAIL - 2HR2

BILL OF MATERIAL

Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Mark			Total		Mat #	Grade
1	2HR1	RAIL					
1	1	PIPE1-1/2SCH40	19'-8 5/8"	50	SQ2		A53
1	1	m6	3'-7 7/16"	9			A53
3	3	m16	4'-11 7/8"	38			A53
1	1	m20	3'-3 3/16"	8			A53
2	2	m22	3'-3 3/16"	17			A53
1	1	m31	3'-3 3/16"	8			A53
4	4	p10	0'-8 1/2"	12			A36
1	2HR2	RAIL					
1	1	PIPE1-1/2SCH40	19'-8 5/8"	50	SQ2		A53
2	2	m10	2'-4 3/4"	12			A53
1	1	m12	1'-0 13/16"	3			A53
1	1	m14	1'-1 9/16"	3			A53
3	3	m16	4'-11 7/8"	38			A53
1	1	m20	3'-3 3/16"	8			A53
2	2	m22	3'-3 3/16"	17			A53
1	1	m25	3'-3 3/16"	8			A53
4	4	p10	0'-8 1/2"	12			A36

- 6) PROVIDE WEEP HOLES PER GALVANIZERS SPECS & REQUIREMENTS.
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/2" EDGE DISTANCE U.N.O.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

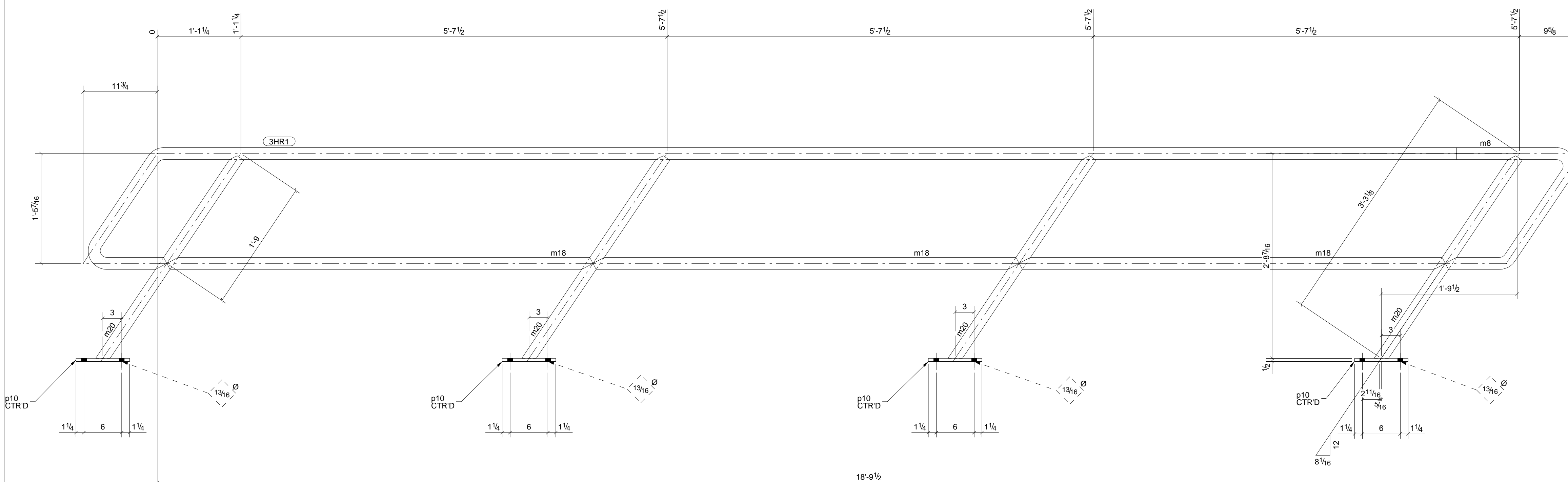
GENERAL NOTES

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project			
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania			
WELDS	1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore			
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company			
BY	TMC	DATE	6/22/09	NO.	1	DESCRIPTION	RAILING DETAILS
BY	TMC	DATE	7/17/09	NO.	2	DESCRIPTION	RAILING DETAILS

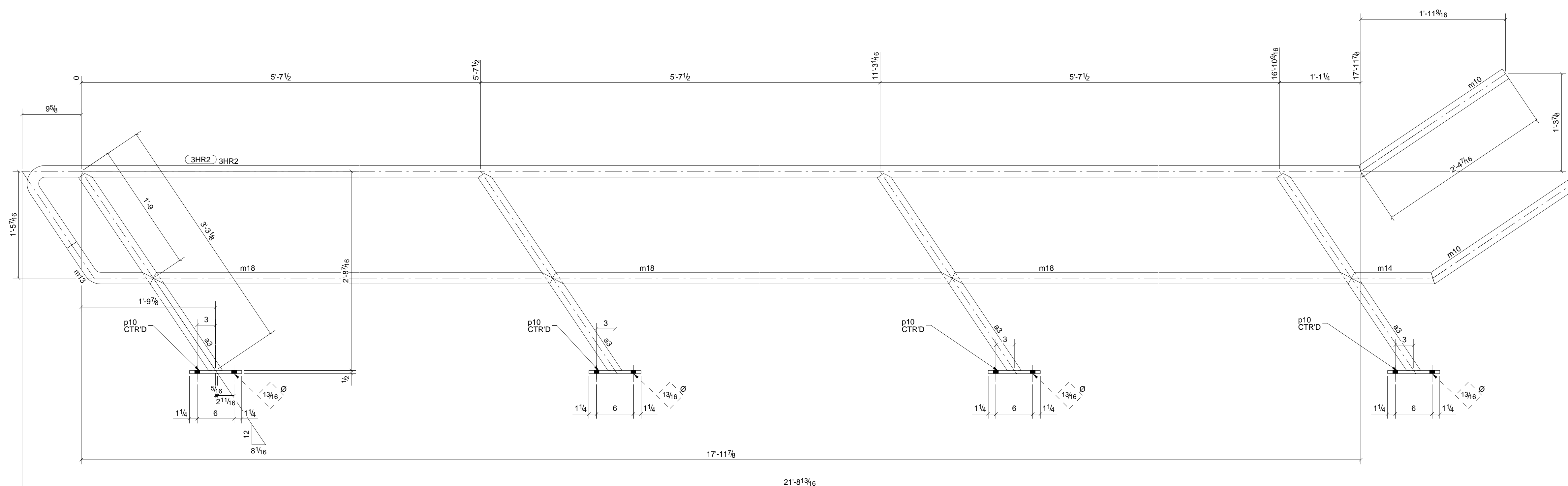
Altoona Pipe And Steel Supply Co.
 Altoona, Pa 16603-0112
 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com
 DATE 06/21/2009 JOB No. 3-21051
 DRAWN BY TMAC DRG No. 2

BILL OF MATERIAL

Qty Est.	Qty Tot.	Piece Mark	Description	Length	Weight Total	Remarks	Adv. Mill #	Steel Grade
		3HR1	RAIL					
1	1		PIPE1-1/2SCH40	19'-8 3/4"	50	SQ2		A53
1	1	m8	PIPE1-1/2SCH40	3'-10 15/16"	10			A53
3	3	m18	PIPE1-1/2SCH40	5'-7 1/2"	43			A53
4	4	m20	PIPE1-1/2SCH40	3'-3 3/16"	33			A53
4	4	p10	FL1/2"X2 1/2"	0'-8 1/2"	12			A36
		3HR2	RAIL					
1	1		PIPE1-1/2SCH40	19'-9 1/8"	50	SQ2		A53
4	4	a3	PIPE1-1/2SCH40	3'-3 3/16"	33			A53
2	2	m10	PIPE1-1/2SCH40	2'-4 3/4"	12			A53
1	1	m13	PIPE1-1/2SCH40	1'-4"	3			A53
1	1	m14	PIPE1-1/2SCH40	1'-1 9/16"	3			A53
3	3	m18	PIPE1-1/2SCH40	5'-7 1/2"	43			A53
4	4	p10	FL1/2"X2 1/2"	0'-8 1/2"	12			A36



ONE - RAIL - 3HR1



ONE - RAIL - 3HR2

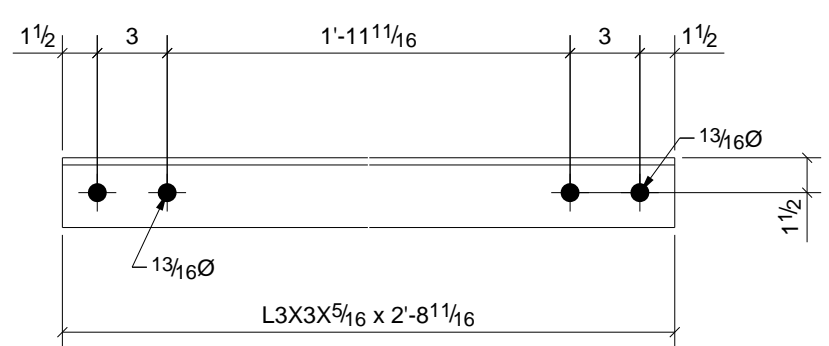
- 6) PROVIDE WEEP HOLES PER GALVANIZERS SPECS & REQUIREMENTS.
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

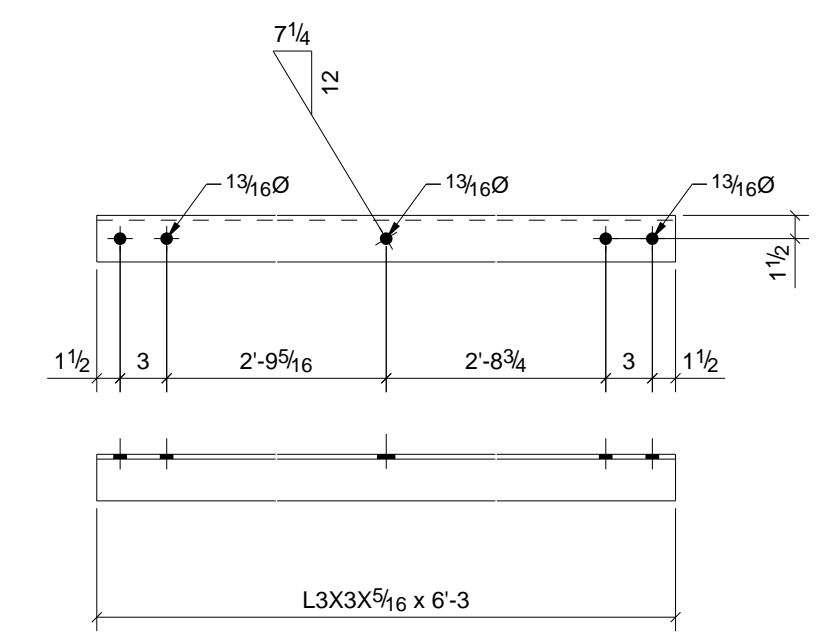
STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO	DATE	06/21/2009
PAINT PER SPEC/GC	UNO	DRAWN BY	TMAC
DATE 6/22/09	NO. 1	DESCRIPTION	RAILING DETAILS
7/17/09	2	For Approval	
	3	For Fabrication F&F	

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 Altoona, Pa 16603-0112
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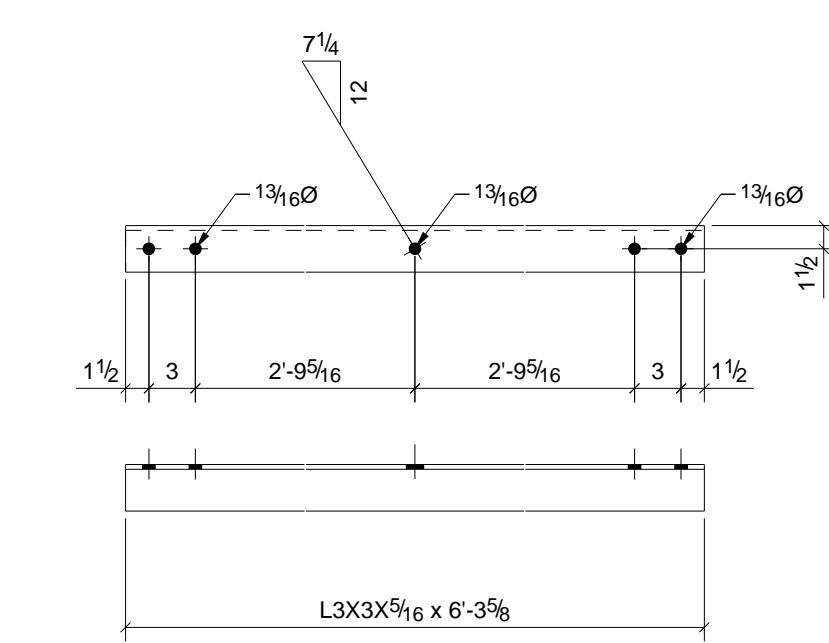
DATE 06/21/2009
 DRAWN BY TMAC
 JOB No. 3-21051
 DRG No. 3



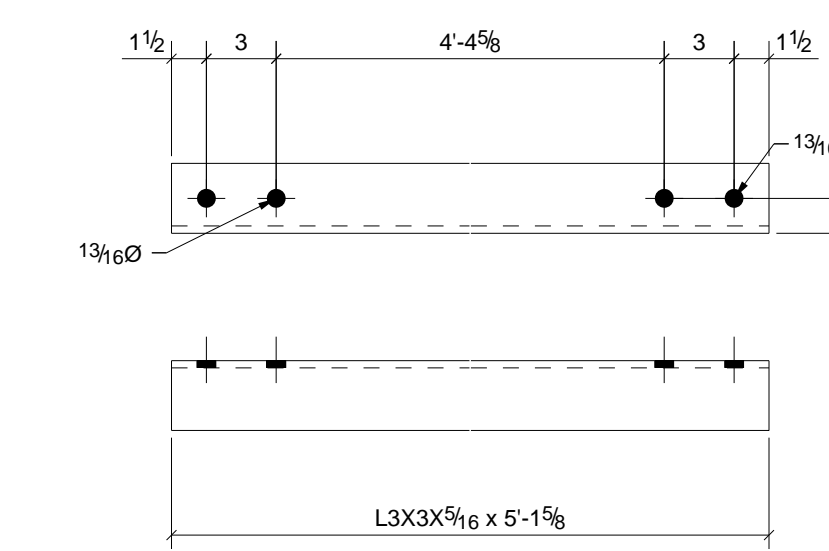
1 - DIAGONAL - DB2



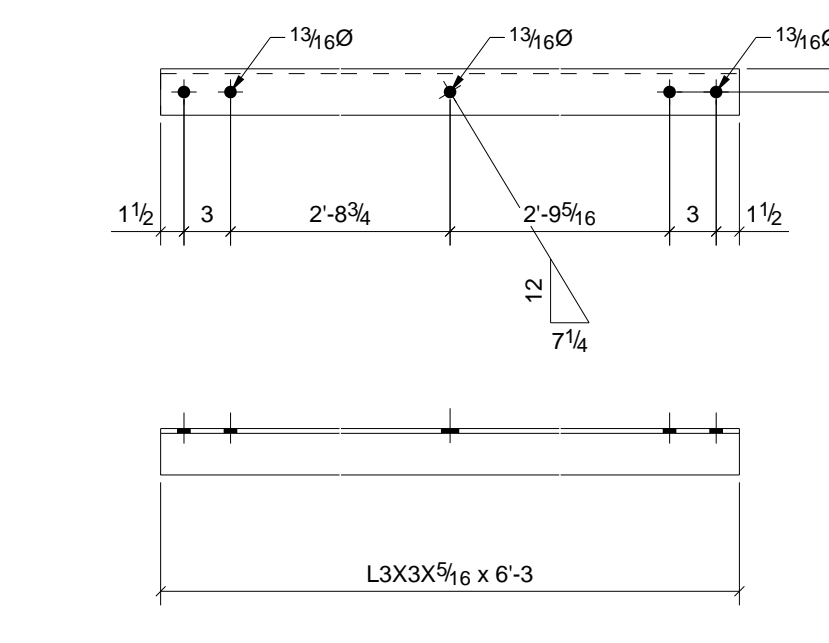
1 - DIAGONAL - DB3



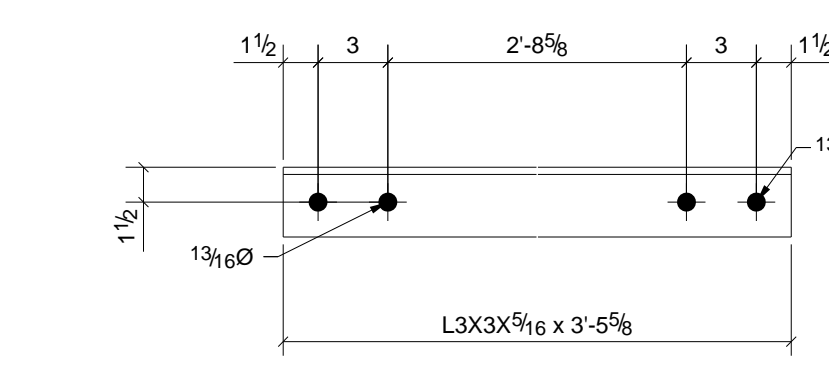
2 - DIAGONAL - DB4



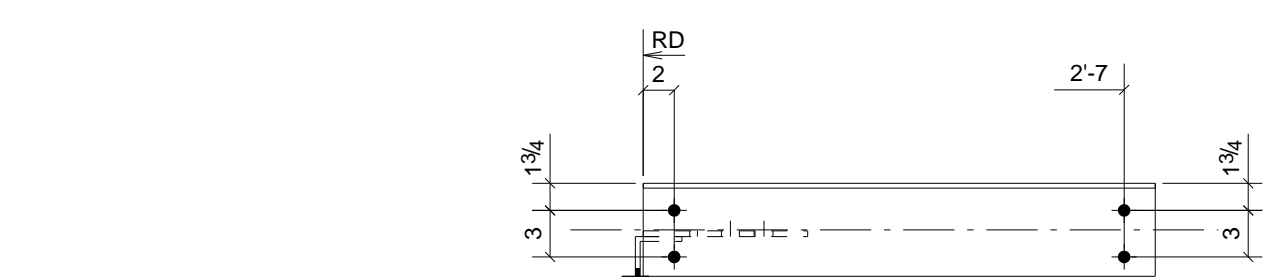
1 - DIAGONAL - DB5



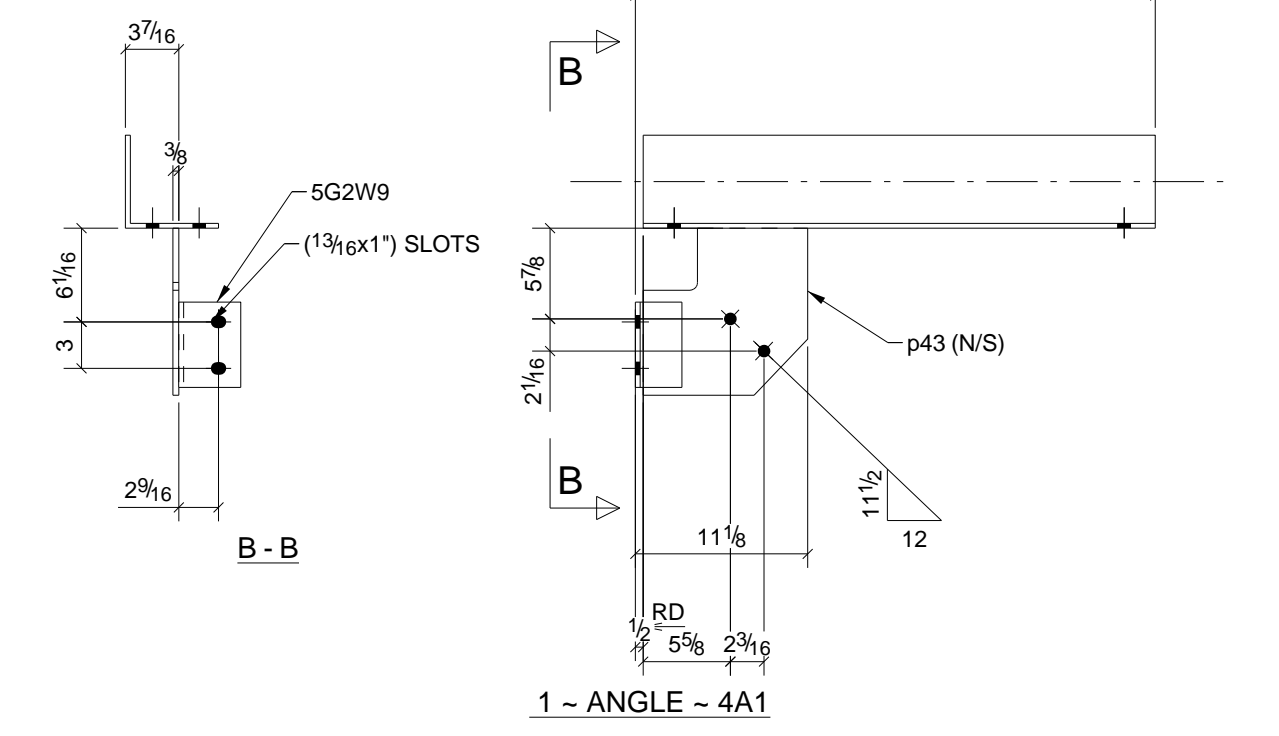
1 - DIAGONAL - DB6



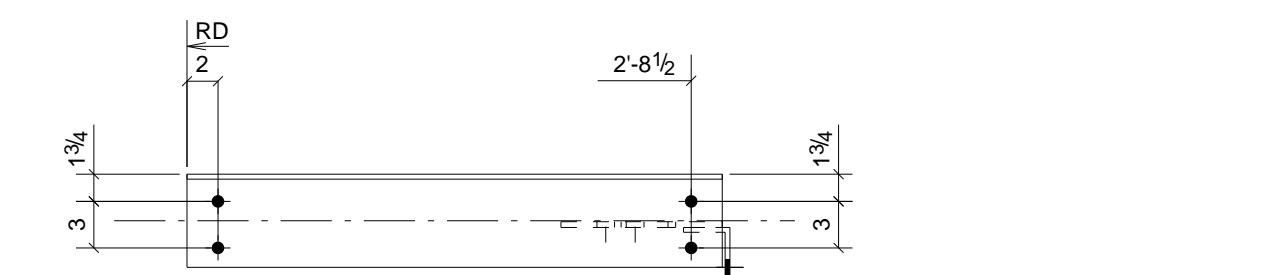
1 - DIAGONAL - DB10



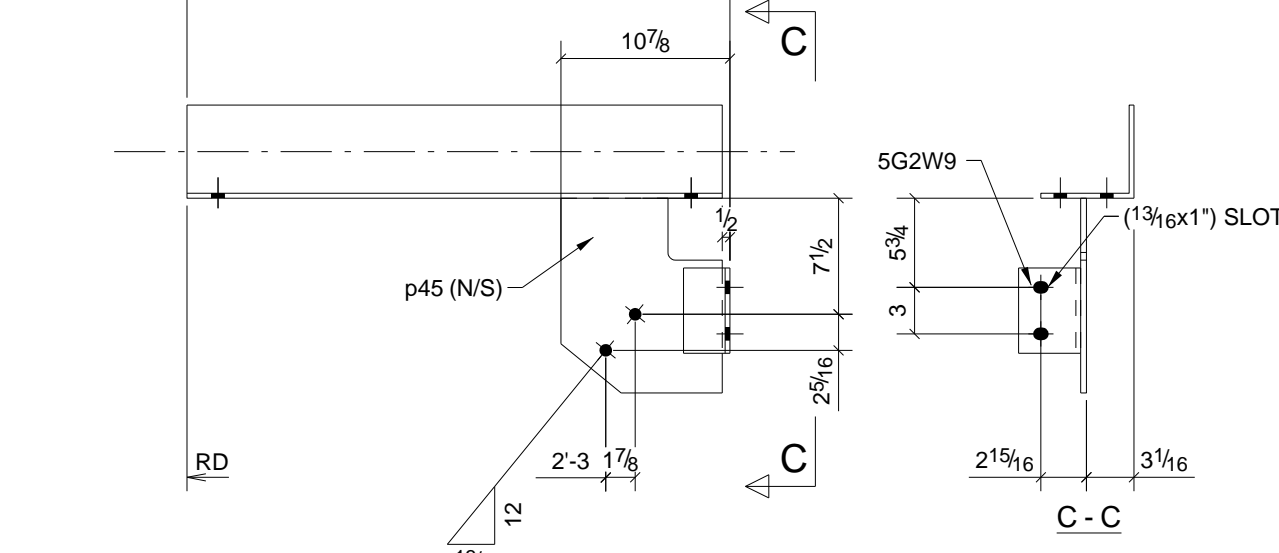
1 - ANGLE - 4A1



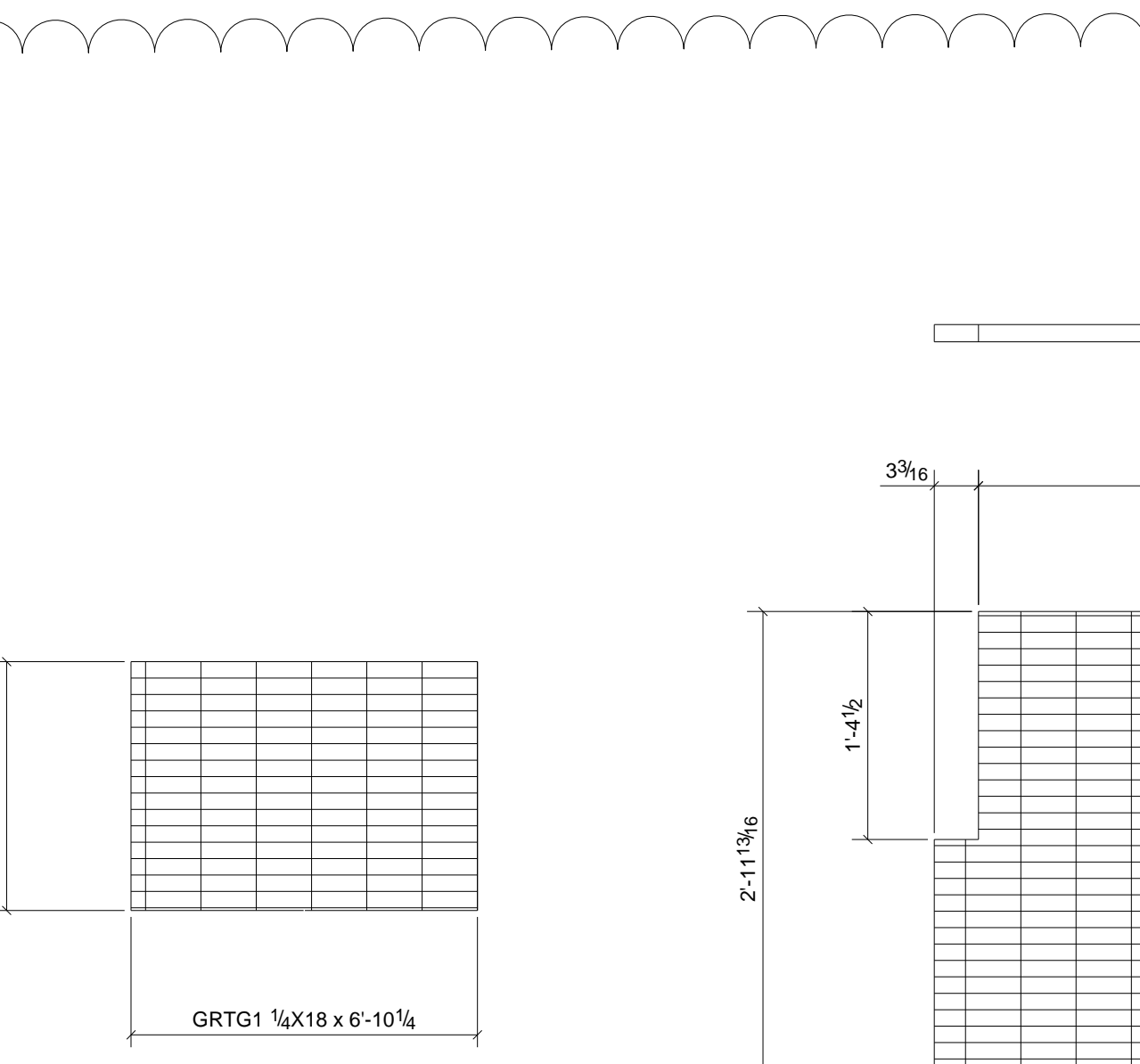
1 - ANGLE - 4A2



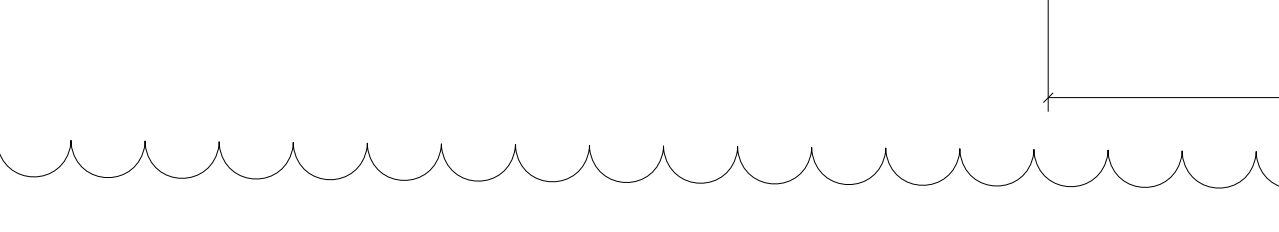
1 - ANGLE - 4A1



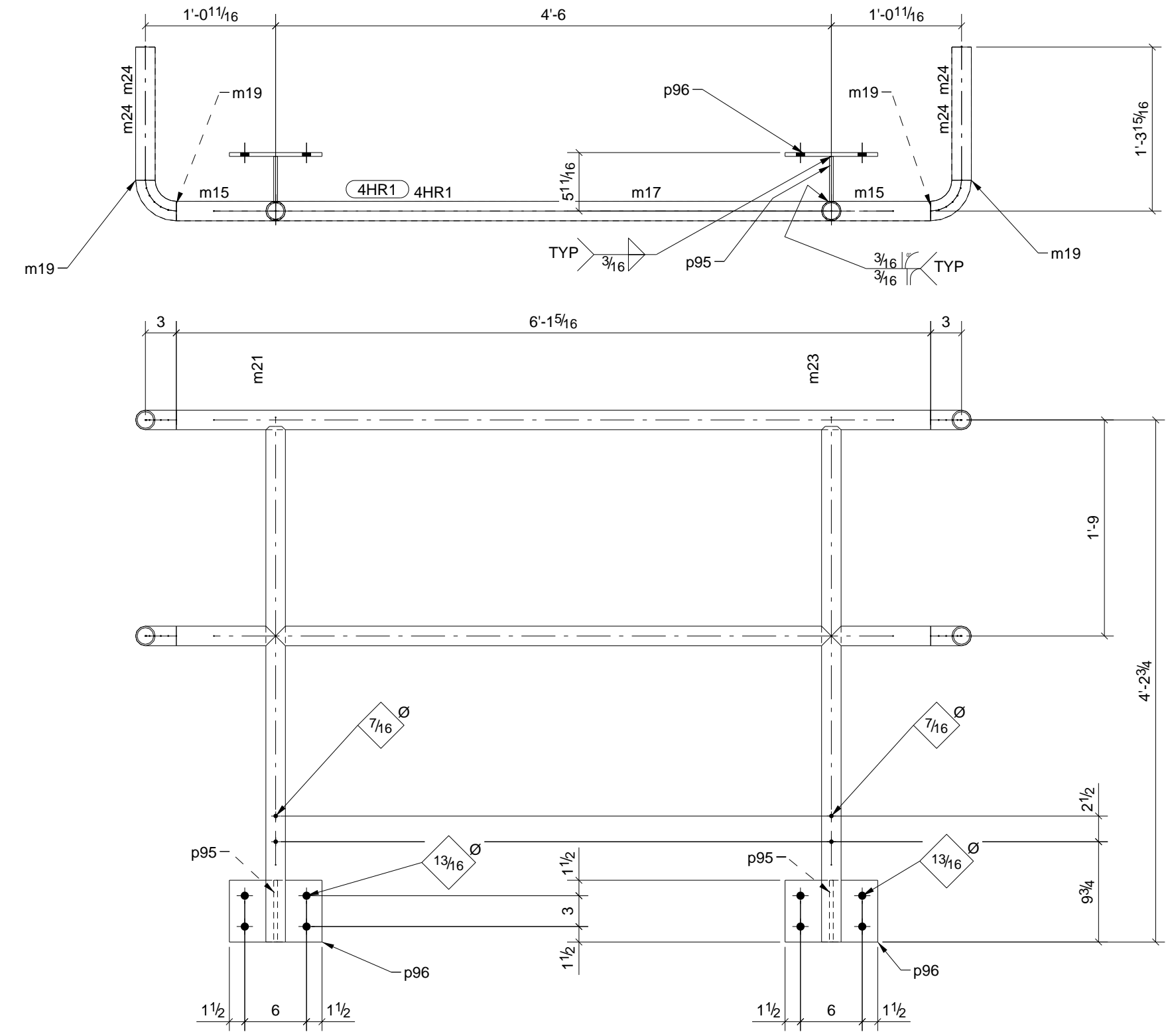
1 - ANGLE - 4A2



1 - PLATE - M8



1 - PLATE - M7



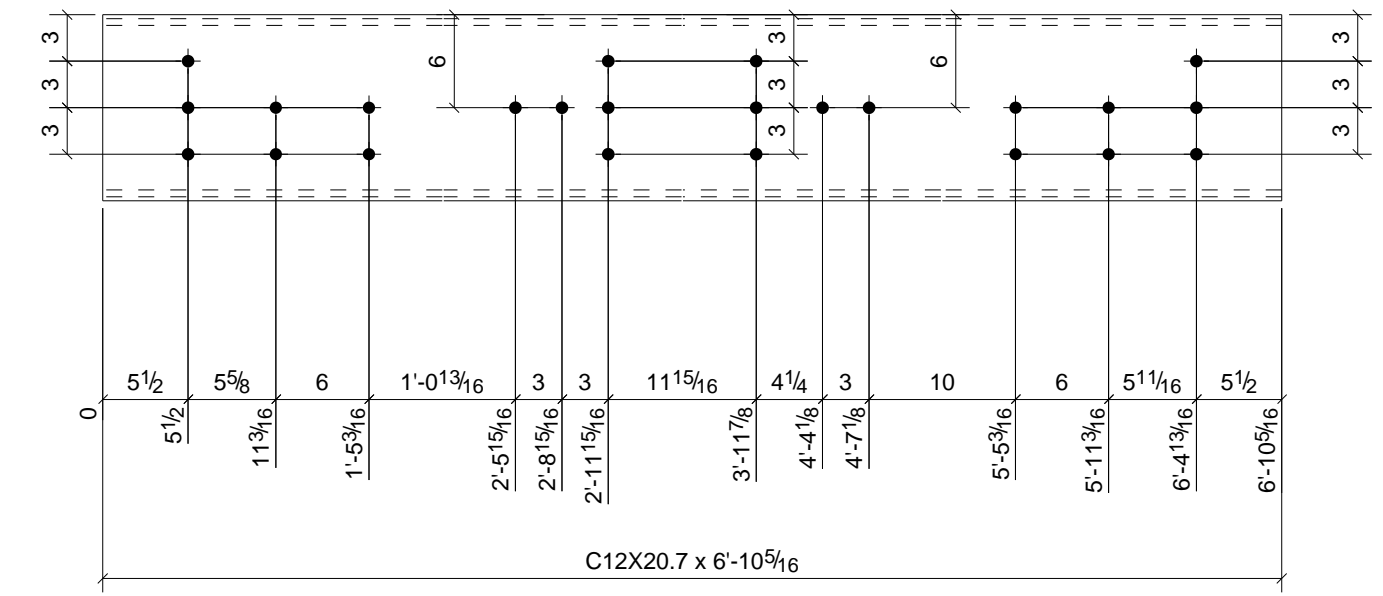
ONE - RAIL - 4HR1

GRATING CUT DIMENSIONS ARE FOR GRATING SUPPLIER
ALL AMERICAN GRATING
ALL GRATING IS 1-1/4, 13-W-4, HOT DIP GALVANIZED

BILL OF MATERIAL						
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks
1	1	4A1	ANGLE			
1	1		L6X6X5/16	2'-9"	34	SQ2
1	1	5G2W9	L4X3X5/16	0'-5 1/2"	3	
1	1	p43	PL3/8"X10 5/8"	0'-10 3/4"	10	
1	1	4A2	ANGLE			
1	1		L6X6X5/16	2'-10 1/2"	36	SQ2
1	1	5G2W9	L4X3X5/16	0'-5 1/2"	3	
1	1	p45	PL3/8"X10 3/8"	1'-0 9/16"	12	
1	1	4HR1	RAIL			
1	1		PIPE1-1/2SCH40	6'-1 5/16"	16	SQ2
2	2	m15	PIPE1-1/2SCH40	0'-9 5/8"	4	
1	1	m17	PIPE1-1/2SCH40	4'-6"	11	
4	4	m19	PIPE1-1/2SCH40	0'-4 11/16"	4	
1	1	m21	PIPE1-1/2STD	4'-2 1/8"	11	
1	1	m23	PD1 7/8"X1/8"	4'-2 1/8"	10	
4	4	m24	PIPE1-1/2SCH40	1'-0 15/16"	11	
2	2	p95	PL3/8"X4 3/8"	0'-6"	6	
2	2	p96	FL3/8"X6"	0'-9"	11	
1	1	B9	CHANNEL			
1	1		C12X20.7	6'-10 5/16"	142	SQ2
1	1	DB2	DIAGONAL			
1	1		L3X3X5/16	2'-8 11/16"	17	SQ2
1	1	DB3	DIAGONAL			
1	1		L3X3X5/16	6'-3"	38	SQ2
2	2	DB4	DIAGONALS			
2	2		L3X3X5/16	6'-3 5/8"	76	SQ2
1	1	DB5	DIAGONAL			
1	1		L3X3X5/16	5'-1 5/8"	31	SQ2
1	1	DB6	DIAGONAL			
1	1		L3X3X5/16	6'-3"	38	SQ2
1	1	DB10	DIAGONAL			
1	1		L3X3X5/16	3'-5 5/8"	21	SQ2
1	1	M7	PLATE			
1	1		GRTG1 1/4"X35 13/16"	6'-10 1/4"	847	SQ2
1	1	M8	PLATE			
1	1		GRTG1 1/4"X18"	6'-10 1/4"	525	SQ2

6) PROVIDE WEEP HOLES PER GALVANIZERS SPECS & REQUIREMENTS.
5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
4) 1/4" EDGE DISTANCE U.N..
3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
2) GRIND ALL ROUGH EDGES SMOOTH.
1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

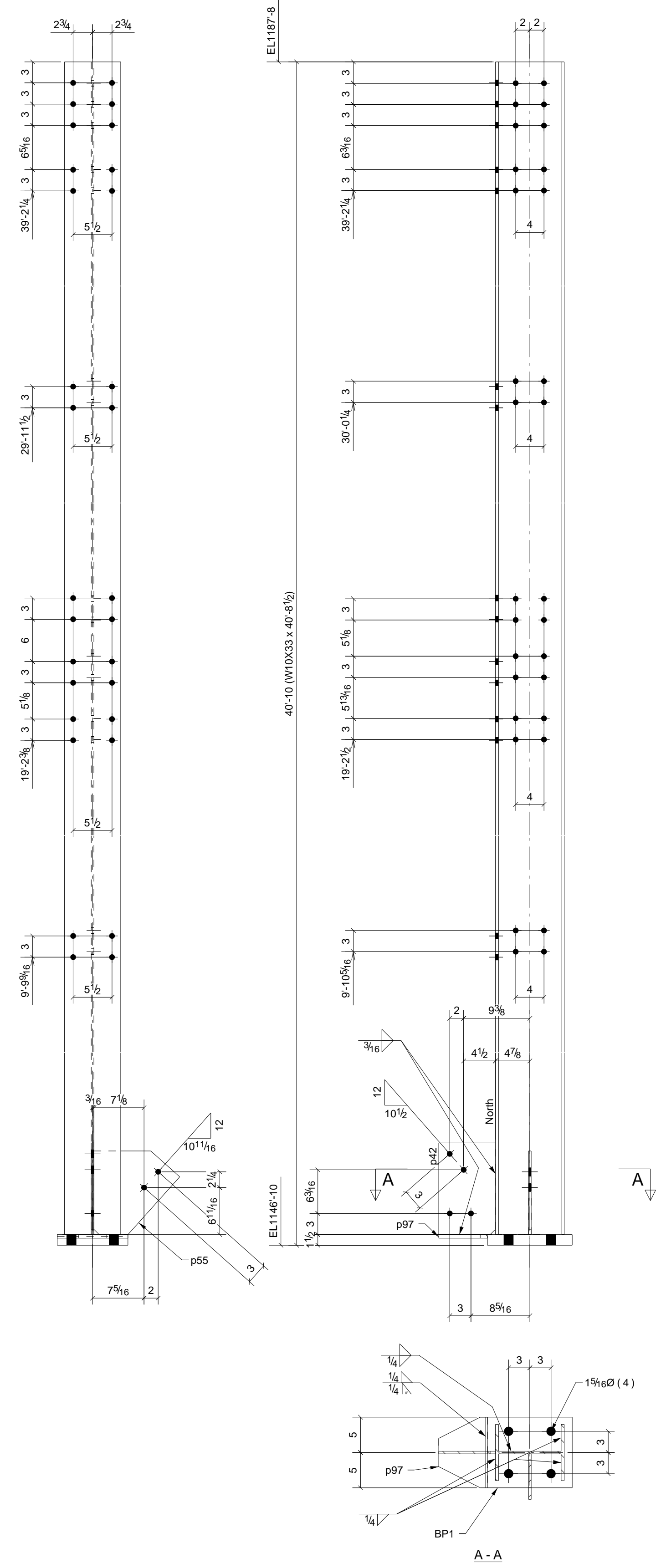


1 - CHANNEL - B9

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO	DATE	06/21/2009
TMC PAINT PER SPEC/GC	UNO	DRAWN BY	TMAC
		JOB No.	3-21051
		DRG No.	4

BILL OF MATERIAL

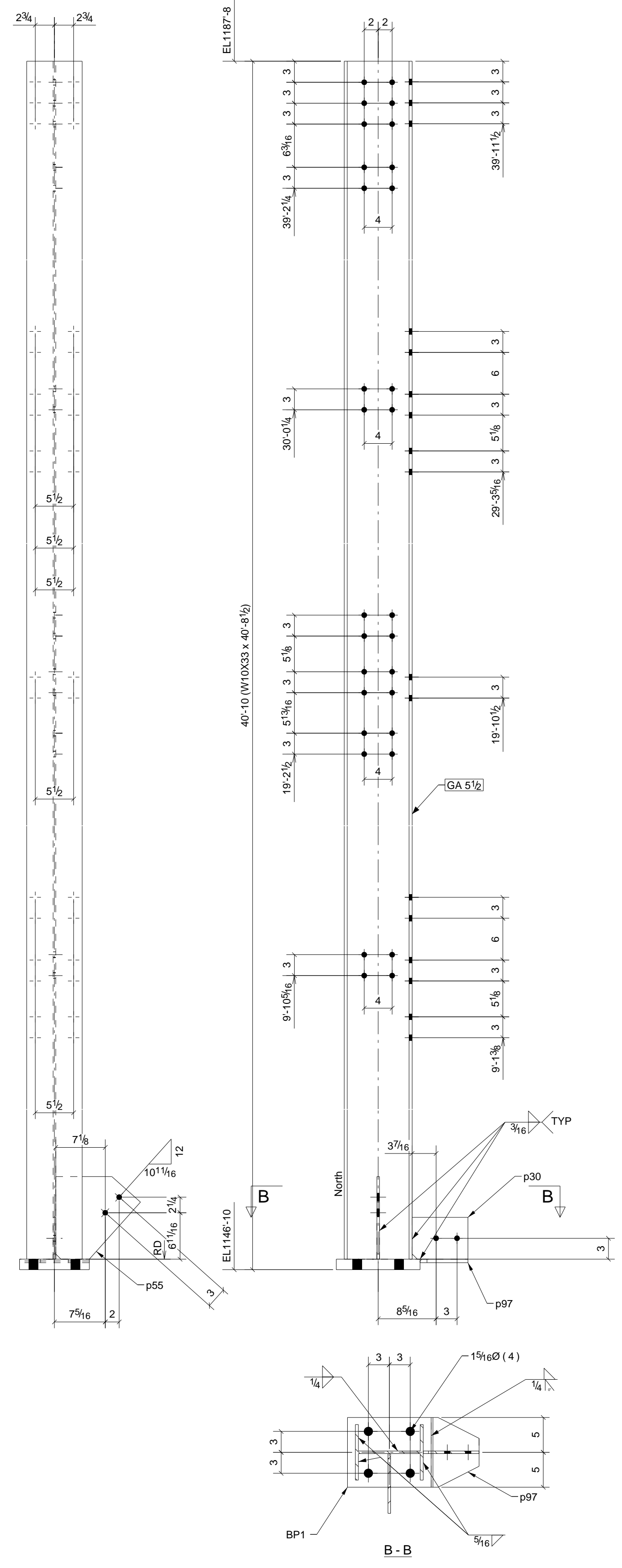
Qty Est.	Qty Tot.	Piece Mark	Description	Length	Weight Total	Remarks	Adv. Mill #	Steel Grade
1	1	5C1	COLUMN					
1	1		W10X33	40'-8 1/2"	1345	SQ2		A992
1	1	BP1	PL1 1/2"X10"	1'-0"	51			A36
1	1	p42	PL3/8"X8"	1'-1"	11			A36
1	1	p55	PL3/8"X11 7/8"	1'-0 1/8"	11			A36
1	1	p97	PL1/2"X6 7/8"	0'-10"	7			A36
1	1	5C2	COLUMN					
1	1		W10X33	40'-8 1/2"	1345	SQ2		A992
1	1	BP1	PL1 1/2"X10"	1'-0"	51			A36
1	1	p30	FL3/8"X6"	0'-8"	5			A36
1	1	p55	PL3/8"X11 7/8"	1'-0 1/8"	11			A36
1	1	p97	PL1/2"X6 7/8"	0'-10"	7			A36



GRID LOCATION	BOTTOM ELEVATION
14.1/D.1	1146'-10"

ONE - COLUMN - 5C1

W	9 3/4" x 11 1/4"
F	7 15/16" x 7 7/16"



GRID LOCATION	BOTTOM ELEVATION
14.1/E.3	1146'-10"

ONE - COLUMN - 5C2

W	9 3/4" x 11 1/4"
F	7 15/16" x 7 7/16"

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/2" EDGE DISTANCE U.N.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

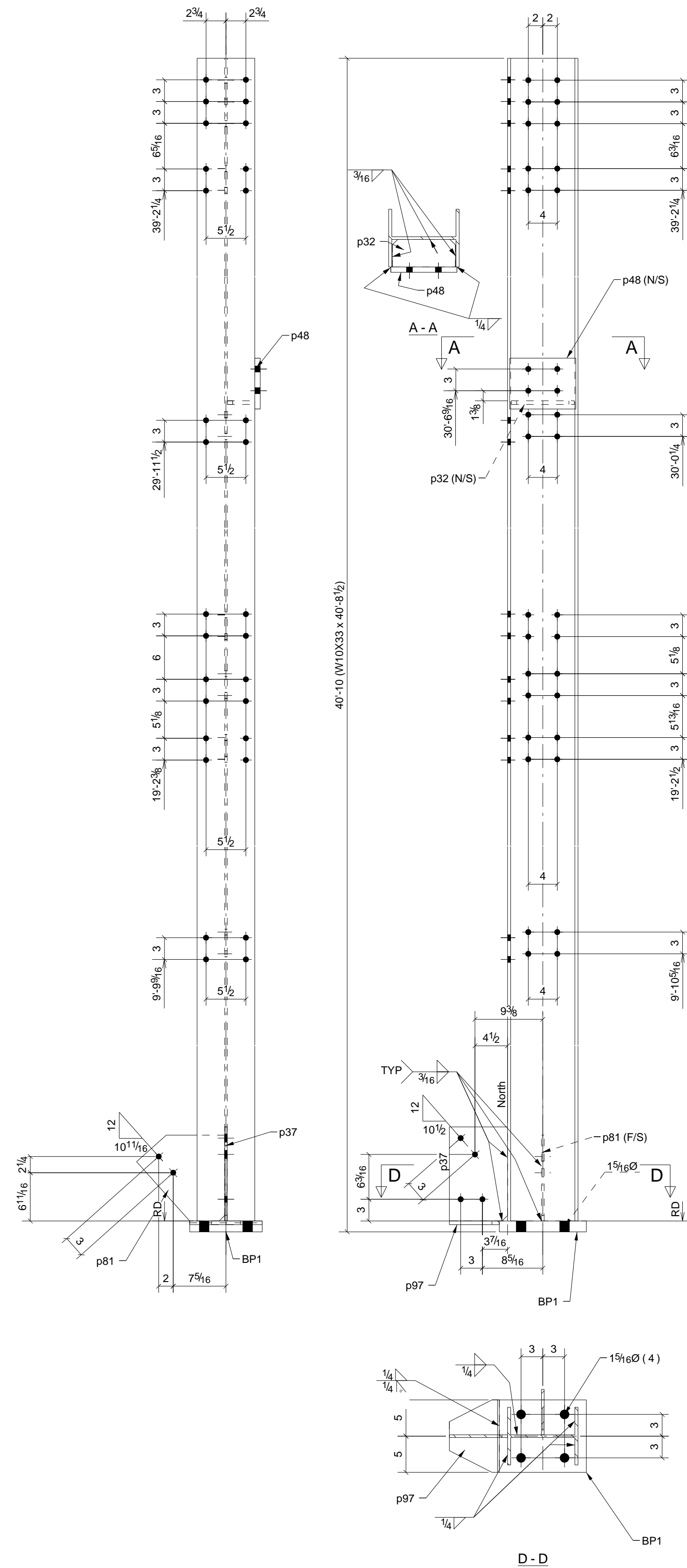
STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO	DATE	06/21/2009
TMC	PAINT	UNO	DRAWN BY	TMAC
TMC	PER SPEC/GC	UNO	JOB NO.	3-21051
			DRG NO.	5

Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112
(814) 944-1631 FAX (814) 944-1635 altoonapipandsteel.com

DESCRIPTION: COLUMN DETAILS

BILL OF MATERIAL

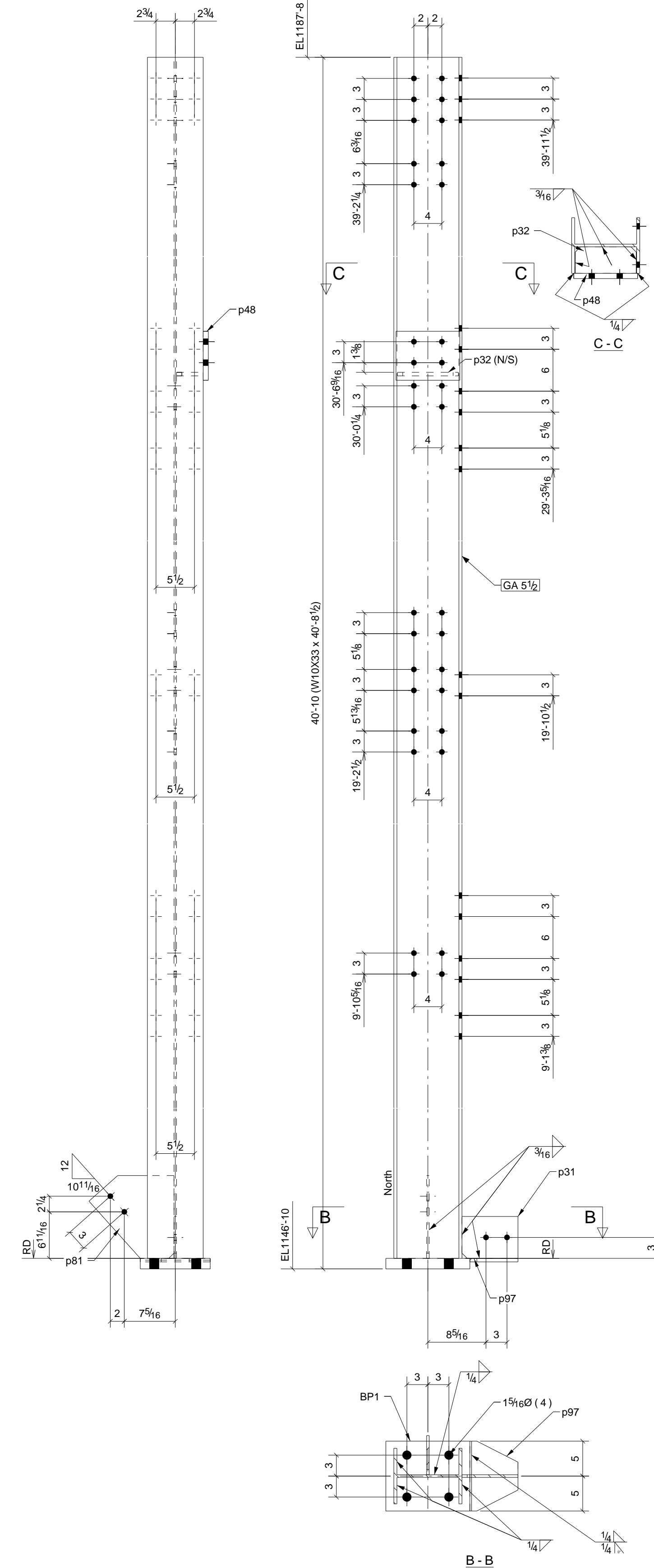
Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot	Mark		Total		Mat #	Grade
1	1	6C1					
1	1	W10X33	40'-8 1/2"	1345	SQ2		A992
1	1	BP1	PL 1 1/2"X10"	1'-0"	51		A36
1	1	p32	PL 1/2"X3 13/16"	0'-8 11/16"	5		A36
1	1	p37	PL 3/8"X8"	1'-1"	11		A36
1	1	p48	PL 9 1/8"X3/4"	0'-7"	14		A36
1	1	p81	PL 3/8"X11 7/8"	1'-0 1/8"	11		A36
1	1	p97	PL 1/2"X6 7/8"	0'-10"	7		A36
1	1	6C2					
1	1	W10X33	40'-8 1/2"	1345	SQ2		A992
1	1	BP1	PL 1 1/2"X10"	1'-0"	51		A36
1	1	p31	FL 3/8"X6"	0'-8"	5		A36
1	1	p32	PL 1/2"X3 13/16"	0'-8 11/16"	5		A36
1	1	p48	PL 9 1/8"X3/4"	0'-7"	14		A36
1	1	p81	PL 3/8"X11 7/8"	1'-0 1/8"	11		A36
1	1	p97	PL 1/2"X6 7/8"	0'-10"	7		A36



ONE - COLUMN - 6C1

W 9 3/4" x 14"
F 7 15/16" x 7/16"

GRID LOCATION: 14.7/D.1
BOTTOM ELEVATION: 1146'-10"



ONE - COLUMN - 6C2

W 9 3/4" x 14"
F 7 15/16" x 7/16"

GRID LOCATION: 14.7/E.3
BOTTOM ELEVATION: 1146'-10"

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N..
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

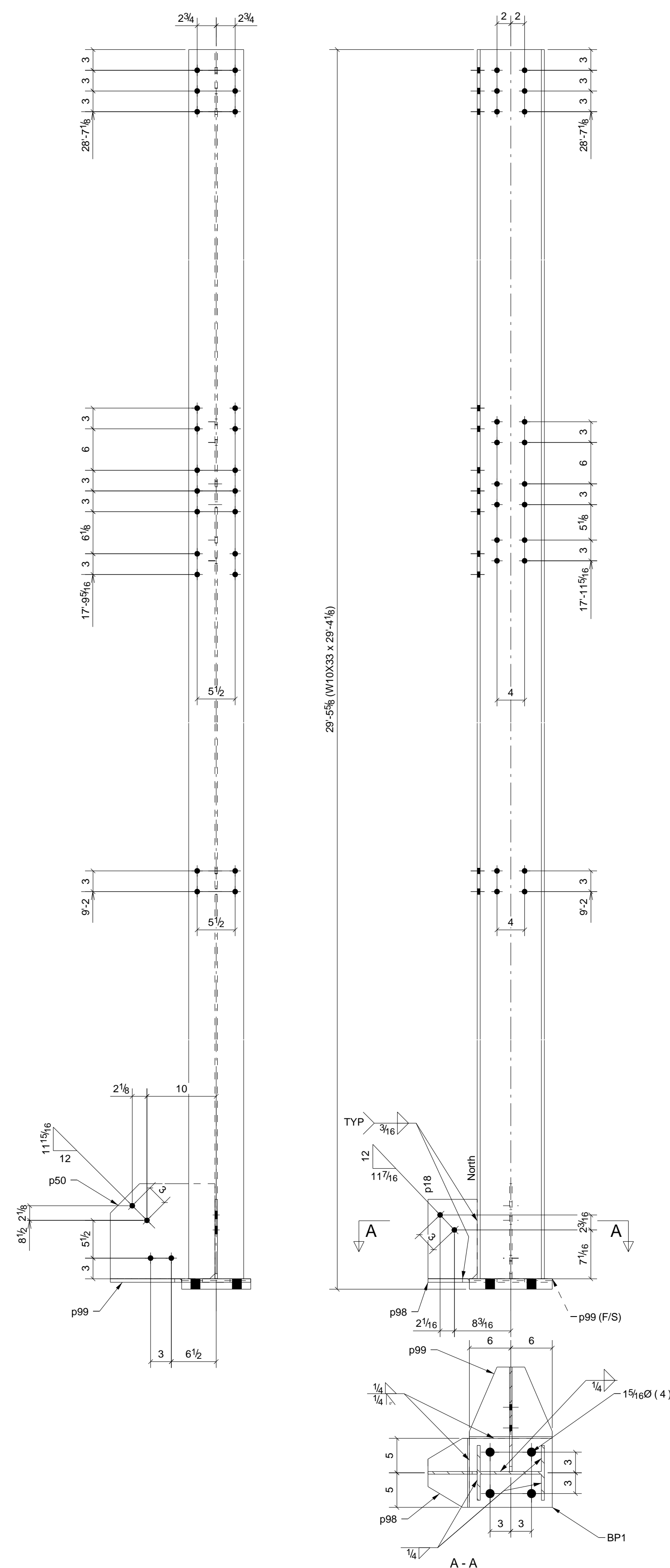
STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO		
PAINT PER SPEC/GC	UNO		

Altoona Pipe And Steel Supply Co.	
Altoona, Pa 16603-0112	
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com	
DESCRIPTION	COLUMN DETAILS
DATE 06/22/2009	JOB No. 3-21051
DRAWN BY TMAC	DRG No. 6

DATE	NO.	DESCRIPTION	BY
6/22/09	1	For Approval	TMC
7/17/09	2	For Fabrication F&F	TMC

BILL OF MATERIAL

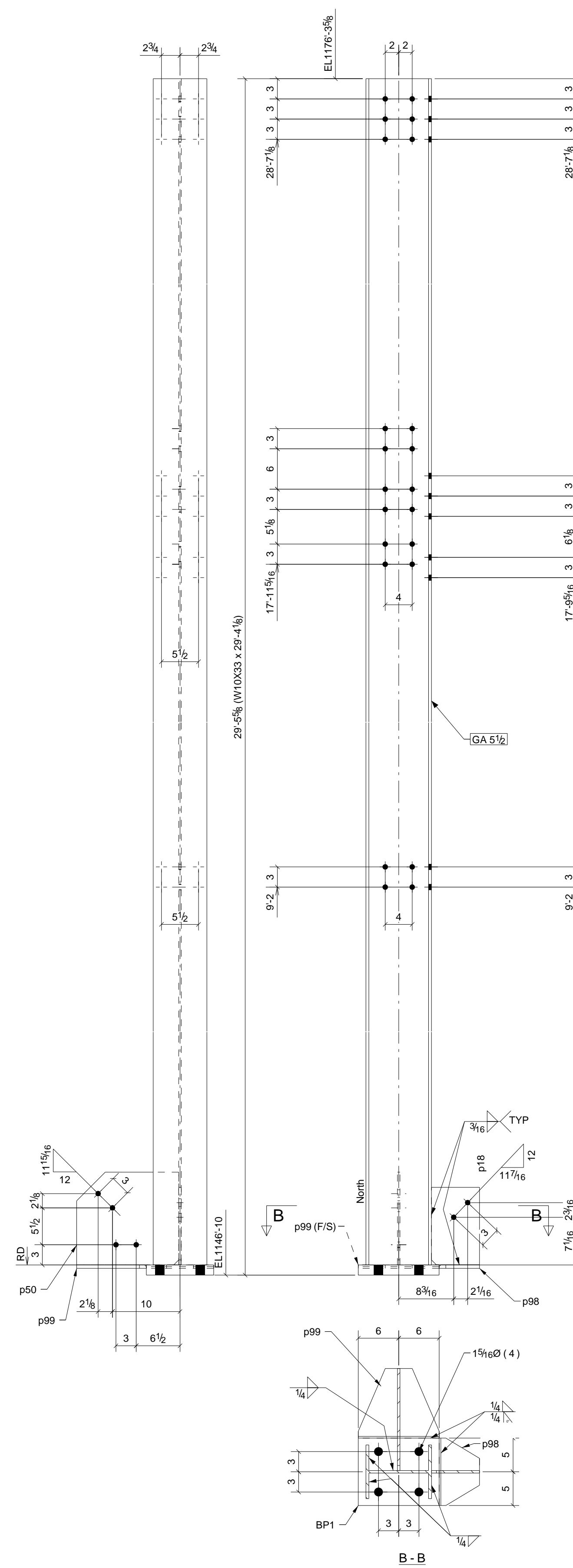
Qty	Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot	Mark			Total		Mat #	Grade
1	1	7C1	COLUMN					
1	1		W10X33	29'-4 1/8"	970	SQ2		A992
1	1	BP1	PL1 1/2"X10"	1'-0"	51			A36
1	1	p18	PL3/8"X7 1/8"	0'-11 1/2"	9			A36
1	1	p50	PL3/8"X13 3/4"	1'-3 1/8"	21			A36
1	1	p98	PL1/2"X6"	0'-10"	6			A36
1	1	p99	PL1/2"X10 5/16"	1'-0"	12			A36
1	1	7C2	COLUMN					
1	1		W10X33	29'-4 1/8"	970	SQ2		A992
1	1	BP1	PL1 1/2"X10"	1'-0"	51			A36
1	1	p18	PL3/8"X7 1/8"	0'-11 1/2"	9			A36
1	1	p50	PL3/8"X13 3/4"	1'-3 1/8"	21			A36
1	1	p98	PL1/2"X6"	0'-10"	6			A36
1	1	p99	PL1/2"X10 5/16"	1'-0"	12			A36



ONE - COLUMN - 7C1

GRID LOCATION	BOTTOM ELEVATION
12.8/B.9	1146'-10"

W 9 3/4" x 11 1/4"
F 7 15/16" x 7 7/16"



ONE - COLUMN - 7C2

GRID LOCATION	BOTTOM ELEVATION
12.8/D.0	1146'-10"

W 9 3/4" x 11 1/4"
F 7 15/16" x 7 7/16"

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N..
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
DATE 6/22/09	NO. 1	BY TMC	DESCRIPTION For Approval
DATE 7/17/09	NO. 2	BY TMC	DESCRIPTION For Fabrication F&F

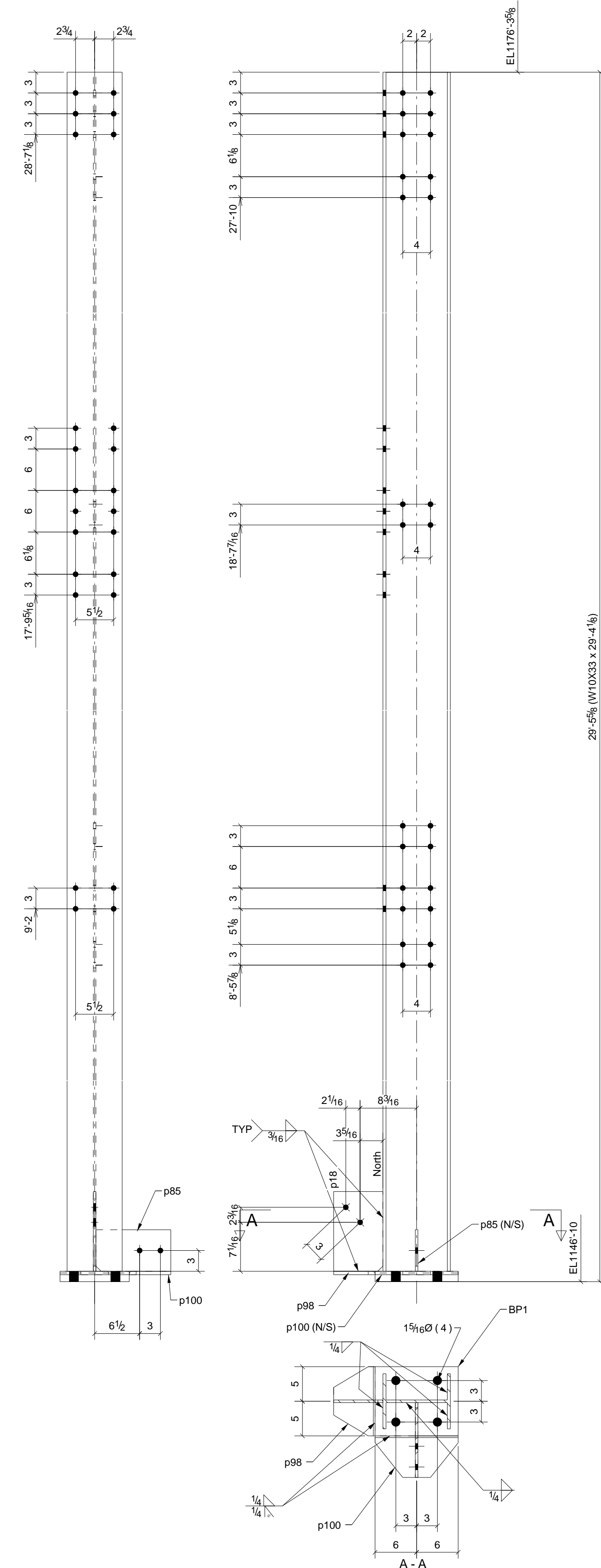
Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112

(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com

DESCRIPTION	COLUMN DETAILS	DATE 06/22/2009	JOB No. 3-21051
		DRAWN BY TMAC	DRG No. 7

BILL OF MATERIAL

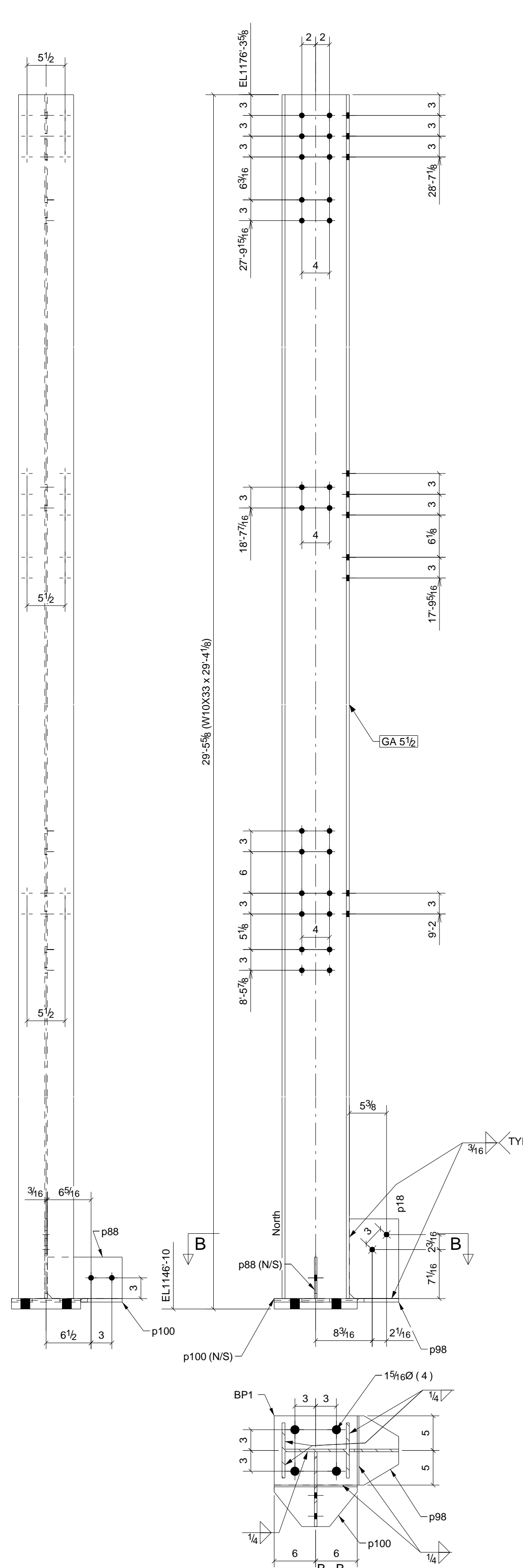
Qty	Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot	Mark			Total		Mat #	Grade
1	1	8C1	COLUMN					
1	1		W10X33	29'-4 1/8"	970	SQ2		A992
1	1	BP1	PL1 1/2"x10"	1'-0"	51			A36
1	1	p18	PL3/8"x7 1/8"	0'-11 1/2"	9			A36
1	1	p85	FL3/8"x6"	0'-10 13/16"	7			A36
1	1	p98	PL1/2"x6"	0'-10"	6			A36
1	1	p100	FL1/2"x6"	1'-0"	7			A36
1	1	8C2	COLUMN					
1	1		W10X33	29'-4 1/8"	970	SQ2		A992
1	1	BP1	PL1 1/2"x10"	1'-0"	51			A36
1	1	p18	PL3/8"x7 1/8"	0'-11 1/2"	9			A36
1	1	p88	FL3/8"x6"	0'-10 13/16"	7			A36
1	1	p98	PL1/2"x6"	0'-10"	6			A36
1	1	p100	FL1/2"x6"	1'-0"	7			A36



ONE - COLUMN - 8C1

GRID LOCATION: 12.4/B.9
BOTTOM ELEVATION: 1146'-10"

W | 9 3/4" x 1 1/4"
F | 7 15/16" x 7/16"



ONE - COLUMN - 8C2

GRID LOCATION: 12.4/D.0
BOTTOM ELEVATION: 1146'-10"

W | 9 3/4" x 1 1/4"
F | 7 15/16" x 7/16"

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N..
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

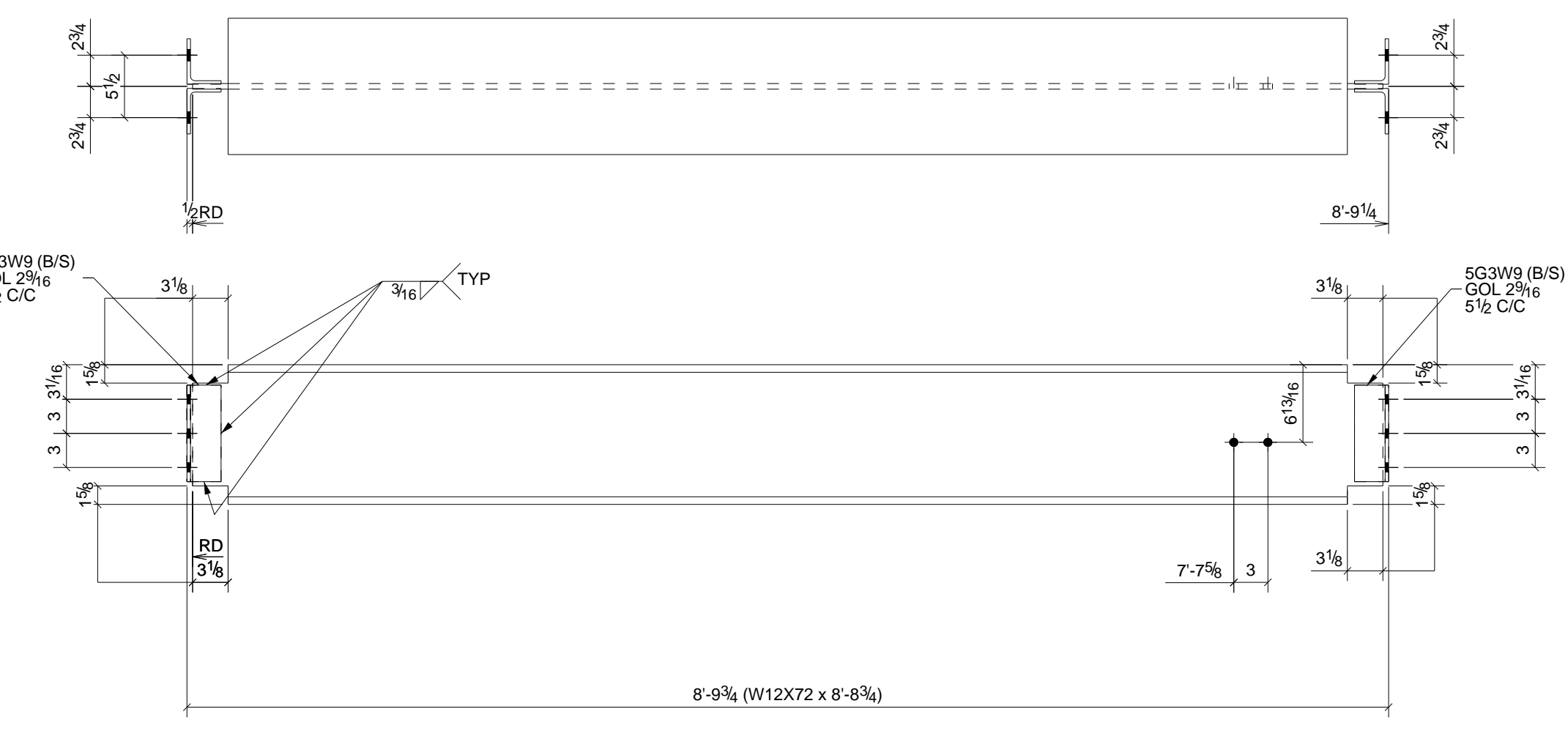
STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO	DATE	6/22/09
PAINT	PER SPEC/GC	UNO	NO.	7/17/09
			DESCRIPTION	For Approval
				For Fabrication F&F

Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com

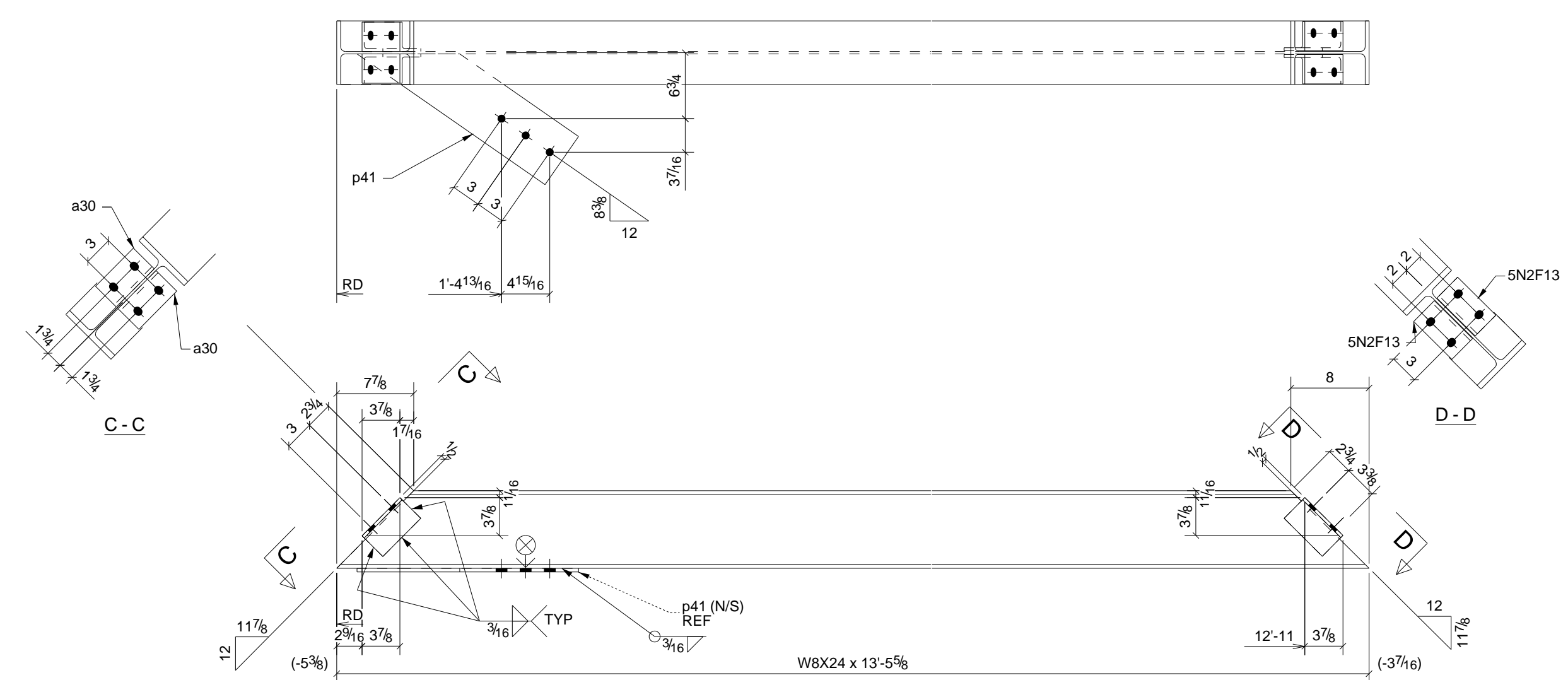
DESCRIPTION: COLUMN DETAILS
DATE: 06/22/2009
JOB No.: 3-21051
DRAWN BY: TMAC
DRG No.: 8

BILL OF MATERIAL

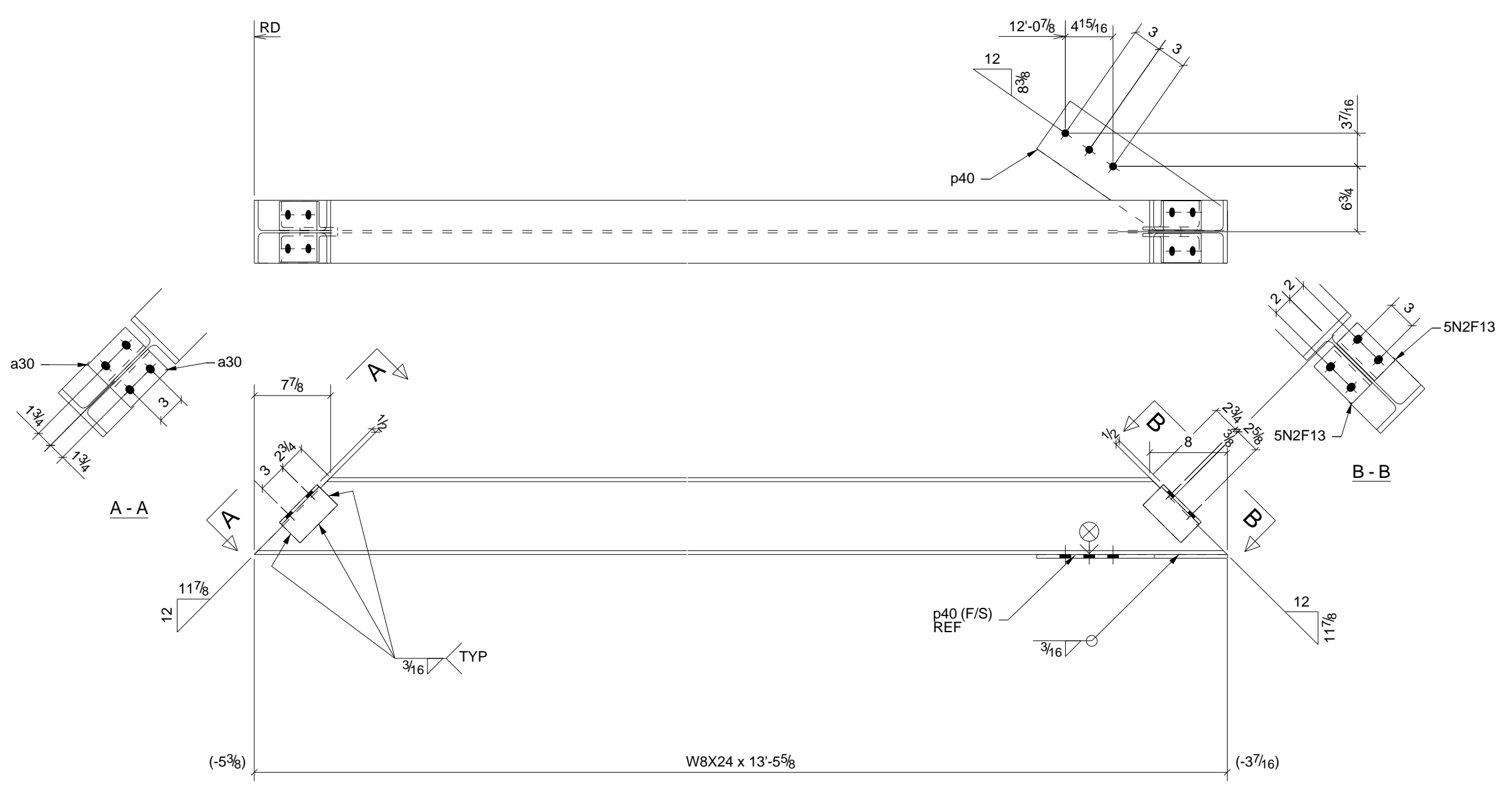
Qty	Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot	Mark			Total		Mat #	Grade
1	1	9B1	BEAM					
1	1	W12X72	W12X72	8'-8 3/4"	627	SQ2		A992
4	4	5G3W9	L4X3X5/16	0'-8 1/2"	20			A36
1	1	9B2	BEAM					
1	1	W8X24	W8X24	13'-5 5/8"	324	BEV2		A992
2	2	5N2F13	L3X3X5/16	0'-5 1/2"	6			A36
2	2	a30	L3X3X5/16	0'-5 1/2"	6			A36
1	1	p40	FL3/8"X6"	1'-9"	12			A36
1	1	9B3	BEAM					
1	1	W12X26	W12X26	10'-5 5/16"	272	SQ2		A992
2	2	5N3F13	L3X3X5/16	0'-8 1/2"	9			A36
1	1	9B4	BEAM					
1	1	W8X24	W8X24	13'-5 5/8"	324	BEV2		A992
2	2	5N2F13	L3X3X5/16	0'-5 1/2"	6			A36
2	2	a30	L3X3X5/16	0'-5 1/2"	6			A36
1	1	p41	FL3/8"X6"	1'-11 7/16"	12			A36
1	1	9B5	BEAM					
1	1	W12X26	W12X26	10'-5 5/16"	272	SQ2		A992
2	2	5N3F13	L3X3X5/16	0'-8 1/2"	9			A36
1	1	9B6	BEAM					
1	1	W12X72	W12X72	7'-11 1/4"	570	SQ2		A992
2	2	5G2W9	L4X3X5/16	0'-5 1/2"	7			A36
4	4	5G3W9	L4X3X5/16	0'-8 1/2"	20			A36
1	1	p15	PL3/8"X10 13/16"	0'-11 13/16"	14			A36



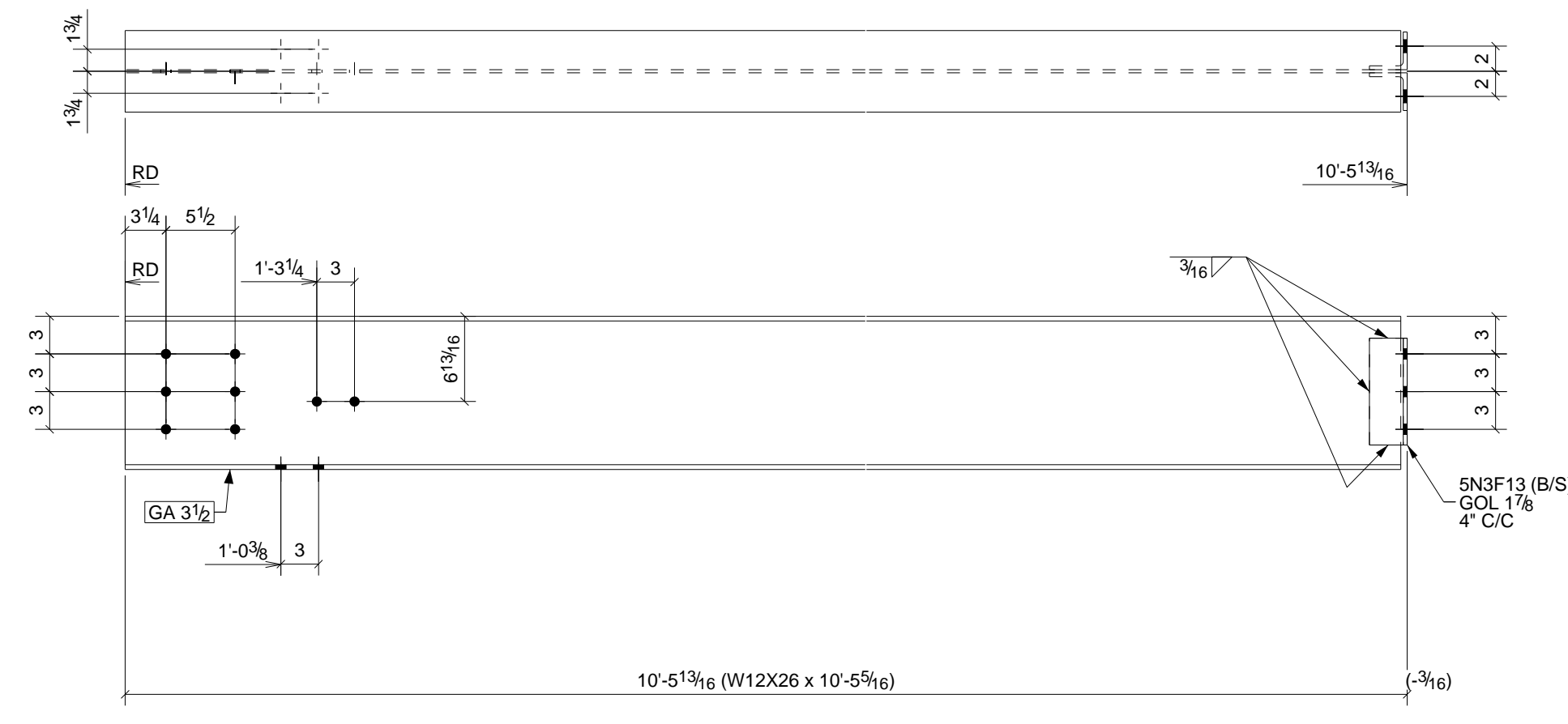
ONE - BEAM - 9B1
 W 12.5'16" x 72" / 6.1/2" x 38"
 F 12' x 11'16"



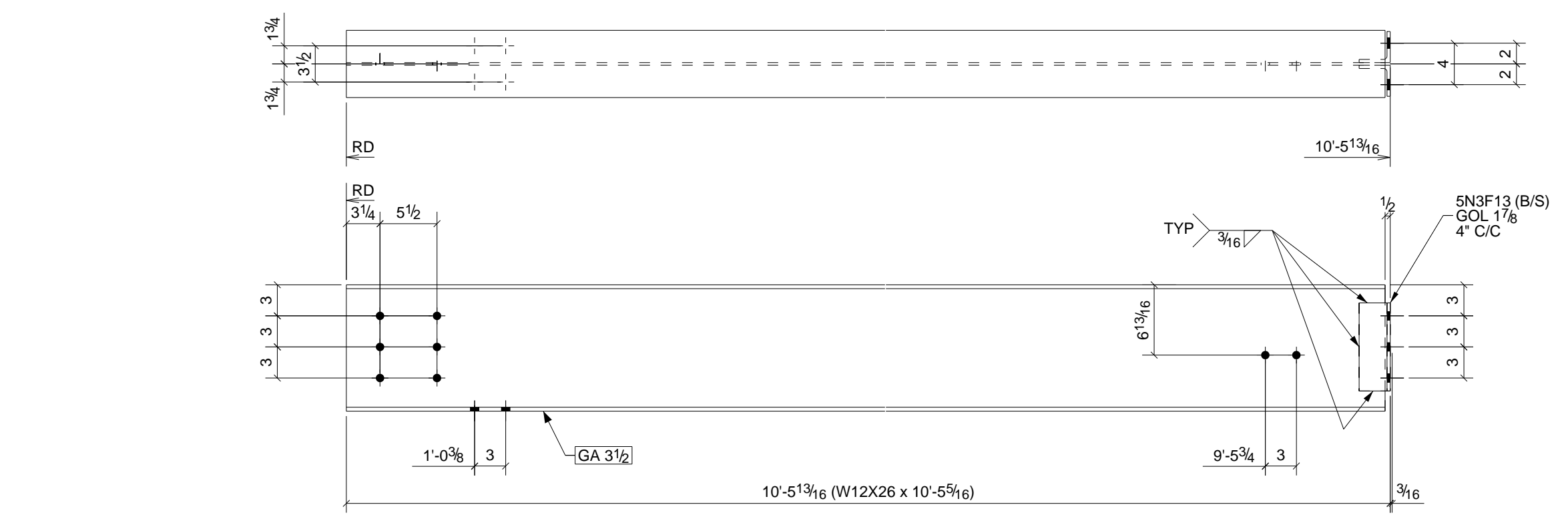
ONE - BEAM - 9B4
 W 8'13" x 24" / 6.1/2" x 38"
 F 13' x 5'5/8"



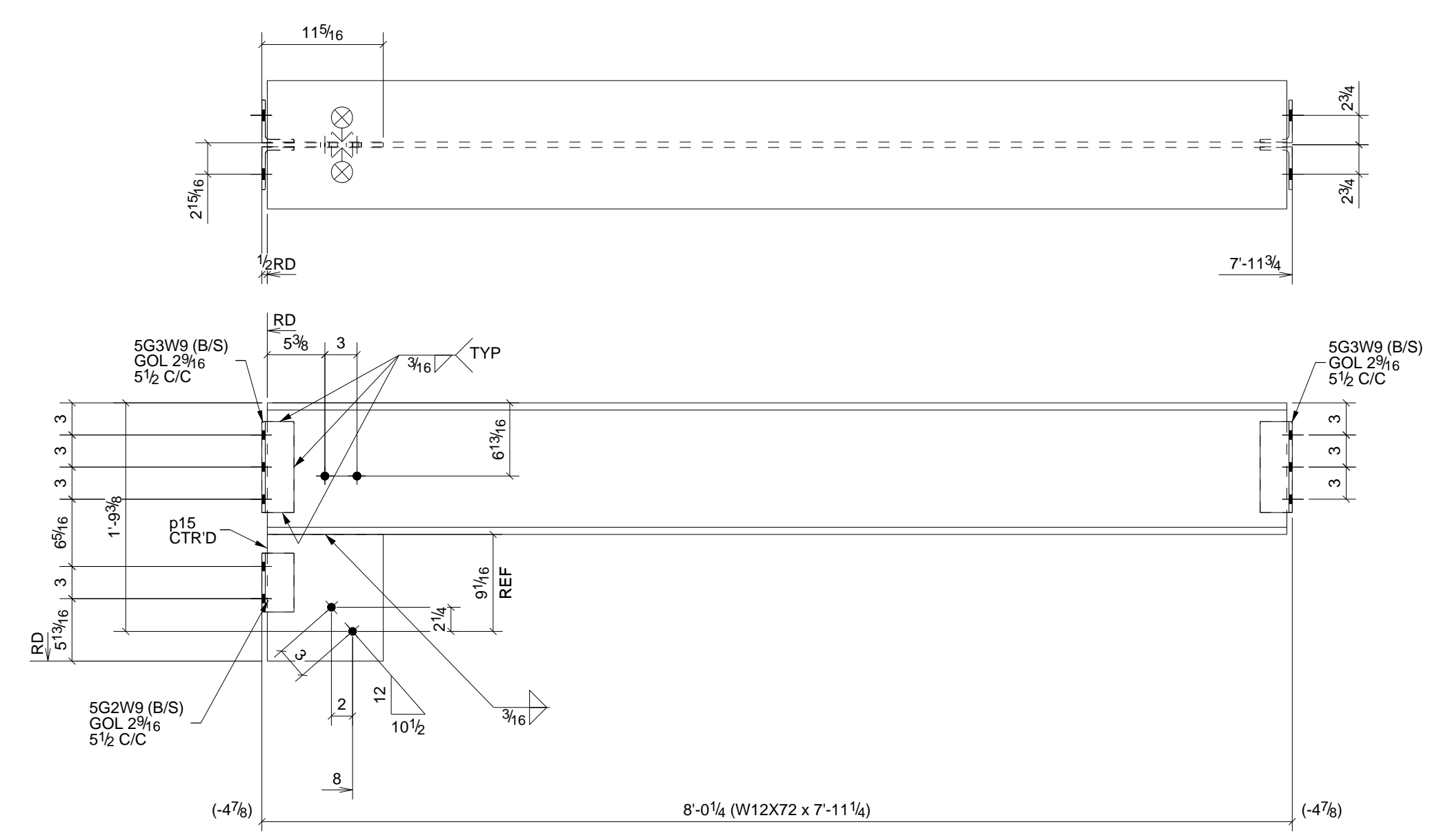
ONE - BEAM - 9B2
 W 8'13" x 24" / 6.1/2" x 38"
 F 12'15 1/16" x 11'4"



ONE - BEAM - 9B5
 W 12'3 1/4" x 26" / 6.1/2" x 38"
 F 10'5 13/16" x 10'5 5/16"



ONE - BEAM - 9B3
 W 12'3 1/4" x 26" / 6.1/2" x 38"
 F 10'5 13/16" x 11'4"



ONE - BEAM - 9B6
 W 12'0 1/4" x 72" / 6.1/2" x 38"
 F 8'0 1/4" x 7'11 1/4"

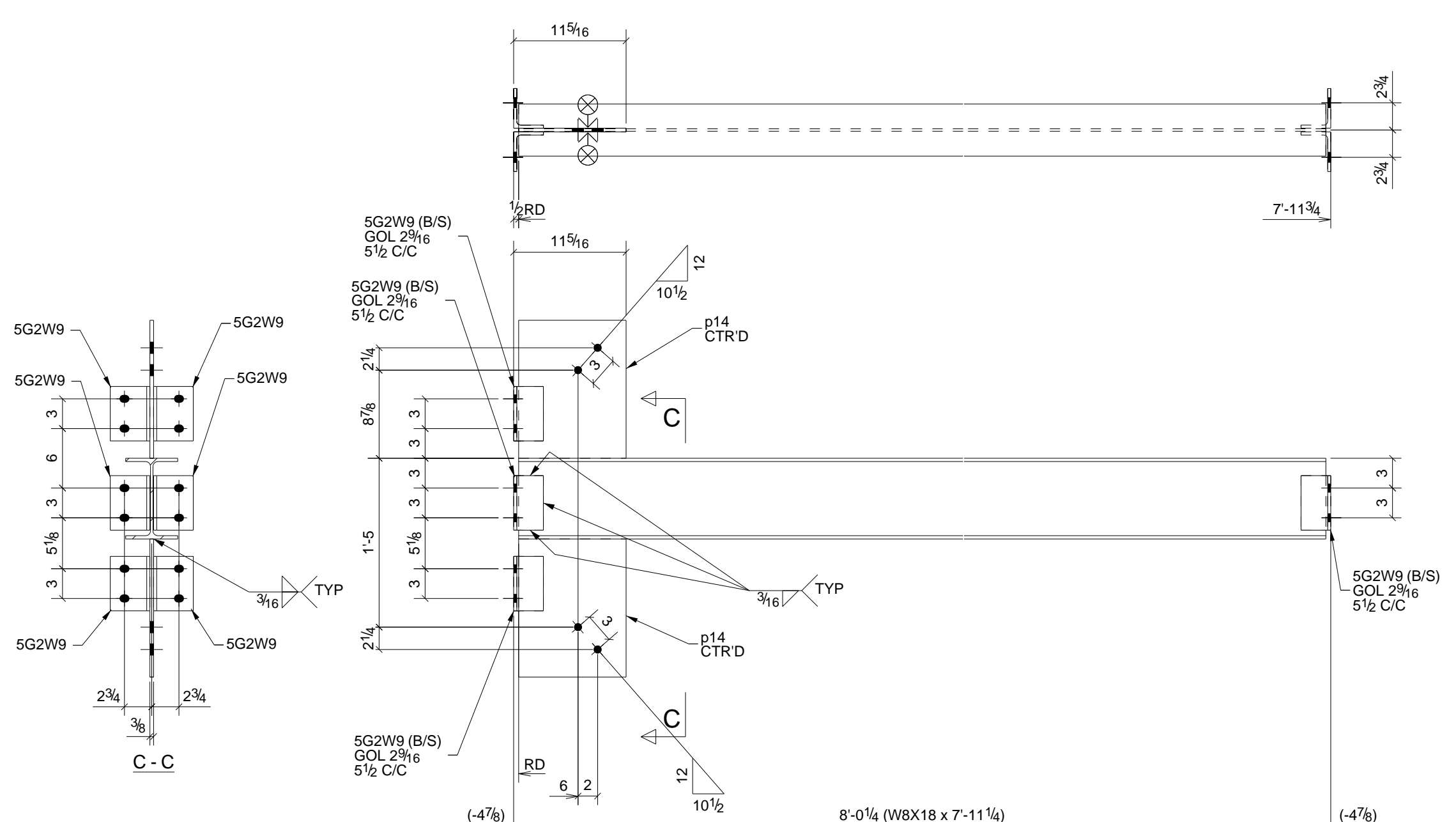
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

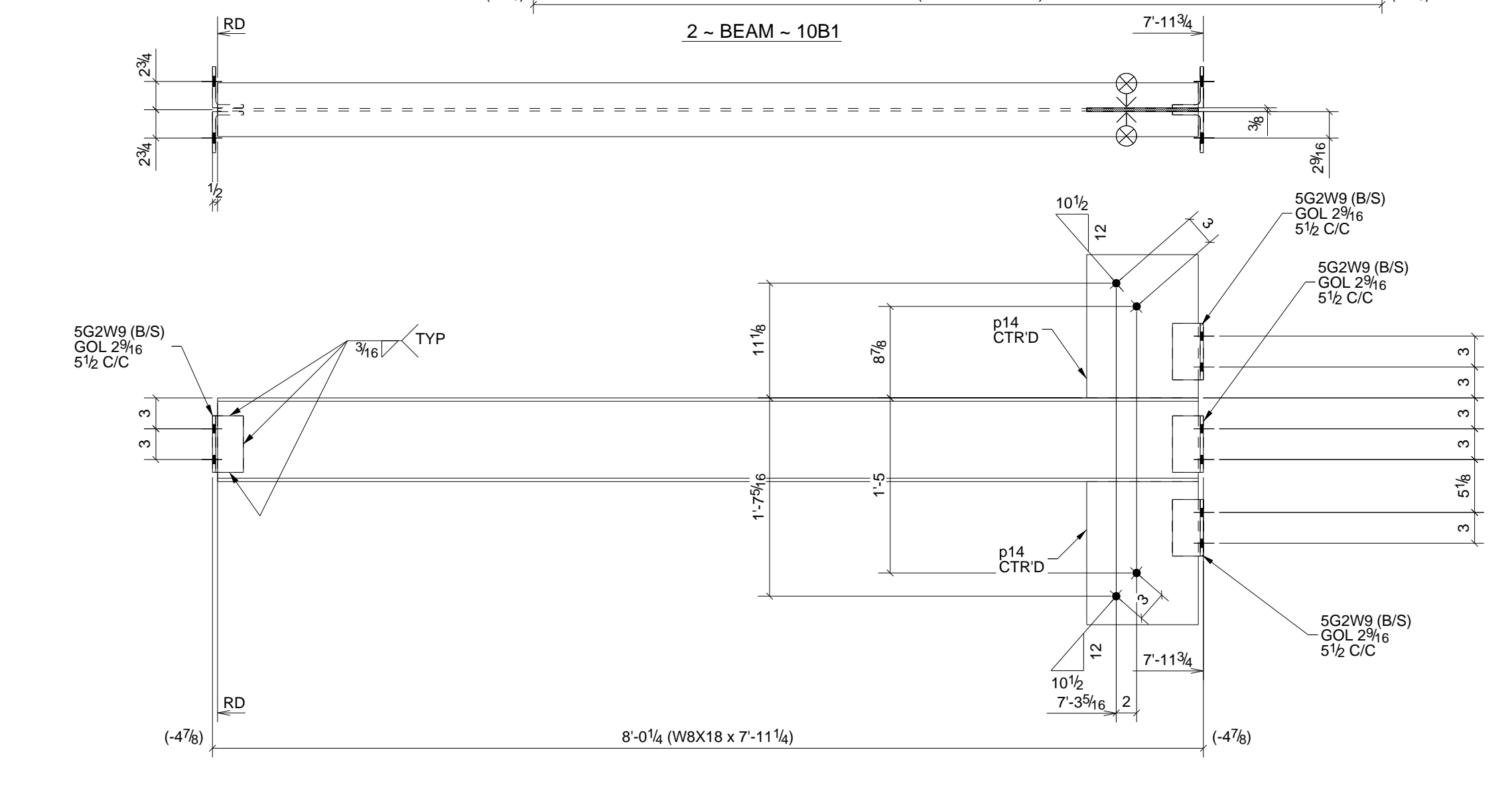
STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO <td>LOCATION</td> <td>Norfolk Southern - Altoona, Pennsylvania</td>	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / B	UNO <td>CONTRACTOR</td> <td>Leonard S. Fiore</td>	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO <td>ARCHITECT</td> <td>H F Lenz Company</td>	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO <td></td> <td></td>		
PAINT	PER SPEC/GC	UNO <td></td> <td></td>		

Altoona Pipe And Steel Supply Co.		DATE	06/22/2009	JOB No.	3-21051
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		DRAWN BY	TMAC	DRG No.	9
DESCRIPTION	BEAM DETAILS				

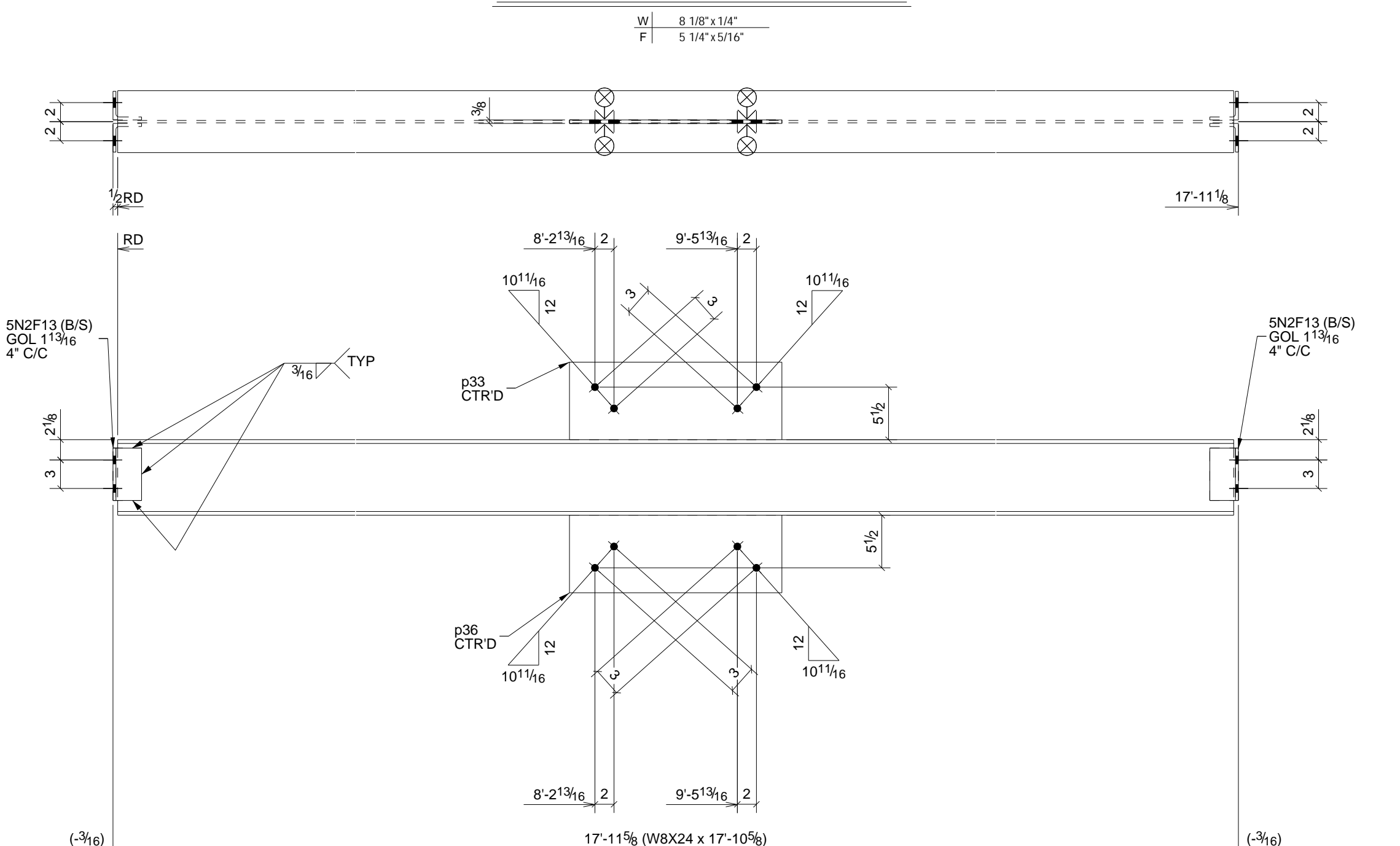
DATE	NO.	DESCRIPTION	BY
6/22/09	1	For Approval	TMC
7/17/09	2	For Fabrication F&F	TMC



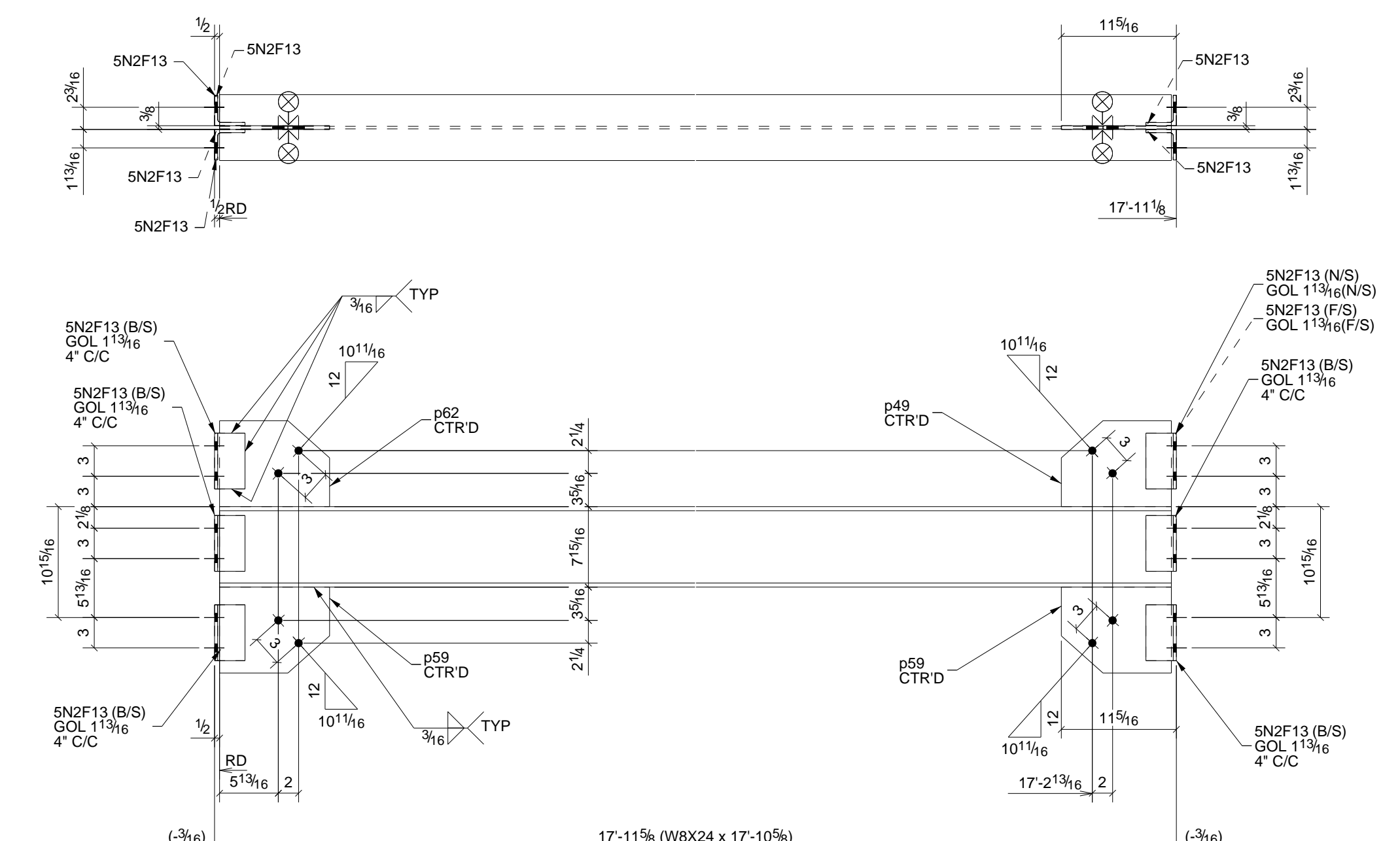
2 - BEAM - 10B1



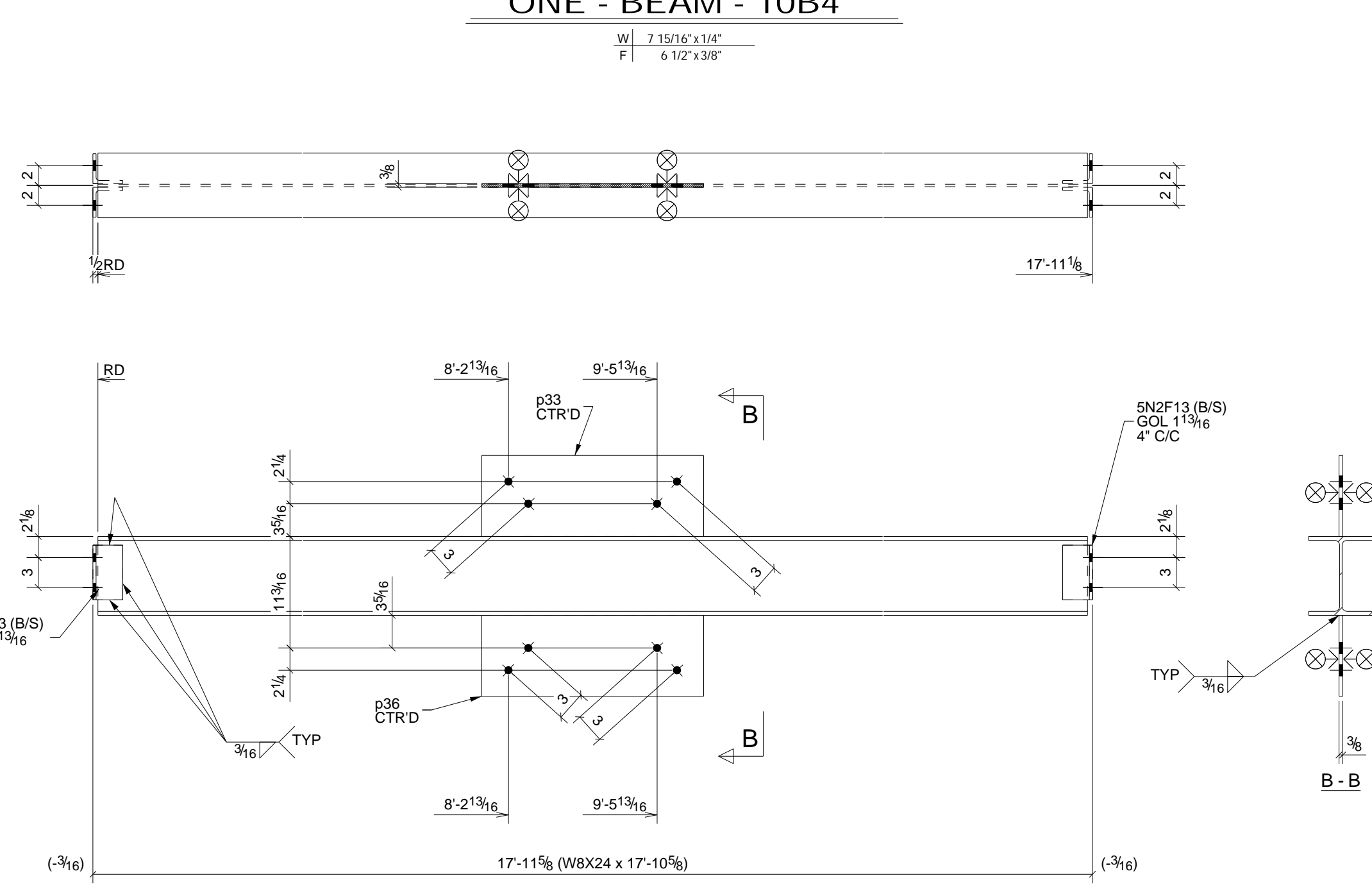
ONE - BEAM - 10B2



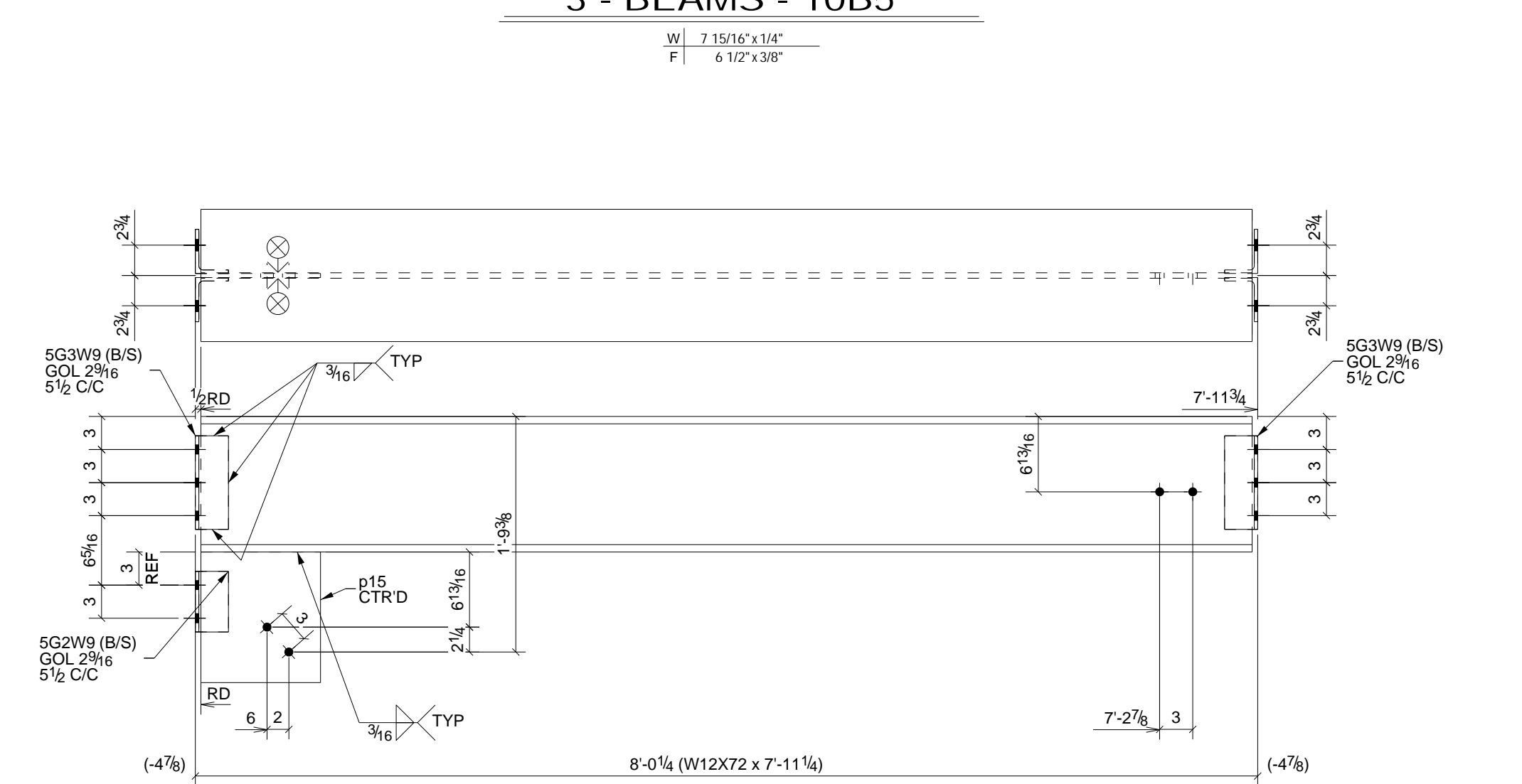
ONE - BEAM - 10B3



ONE - BEAM - 10B4



3 - BEAMS - 10B5



ONE - BEAM - 10B6

BILL OF MATERIAL										
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv. Mill #	Steel Grade		
2	2	10B1	BEAMS							
2	2	W8X18		7'-11 1/4"	284	SQ2		A992		
8	16	5G2W9	L4X3X5/16	0'-5 1/2"	52			A36		
2	4	p14	PL3/8"X10 13/16"	1'-1 15/16"	64			A36		
1	1	10B2	BEAM							
1	1	W8X18		7'-11 1/4"	142	SQ2		A992		
8	16	5G2W9	L4X3X5/16	0'-5 1/2"	26			A36		
2	2	p14	PL3/8"X10 13/16"	1'-1 15/16"	32			A36		
1	1	10B3	BEAM							
1	1	W8X24		17'-10 5/8"	431	SQ2		A992		
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36		
1	1	p33	PL3/8"X8 1/8"	1'-10 5/16"	19			A36		
1	1	p36	PL3/8"X8 1/8"	1'-10 5/16"	19			A36		
1	1	10B4	BEAM							
1	1	W8X24		17'-10 5/8"	431	SQ2		A992		
12	12	5N2F13	L3X3X5/16	0'-5 1/2"	33			A36		
1	1	p49	PL3/8"X8 1/2"	0'-10 13/16"	9			A36		
2	2	p59	PL3/8"X8 1/2"	0'-10 13/16"	18			A36		
1	1	p62	PL3/8"X8 1/2"	0'-10 13/16"	9			A36		
3	3	10B5	BEAMS							
3	3	W8X24		17'-10 5/8"	1293	SQ2		A992		
4	12	5N2F13	L3X3X5/16	0'-5 1/2"	33			A36		
1	3	p33	PL3/8"X8 1/8"	1'-10 5/16"	58			A36		
1	3	p36	PL3/8"X8 1/8"	1'-10 5/16"	58			A36		
1	1	10B6	BEAM							
1	1	W12X72		7'-11 1/4"	570	SQ2		A992		
2	2	5G2W9	L4X3X5/16	0'-5 1/2"	7			A36		
4	4	5G3W9	L4X3X5/16	0'-8 1/2"	20			A36		
1	1	p15	PL3/8"X10 13/16"	0'-11 13/16"	14			A36		

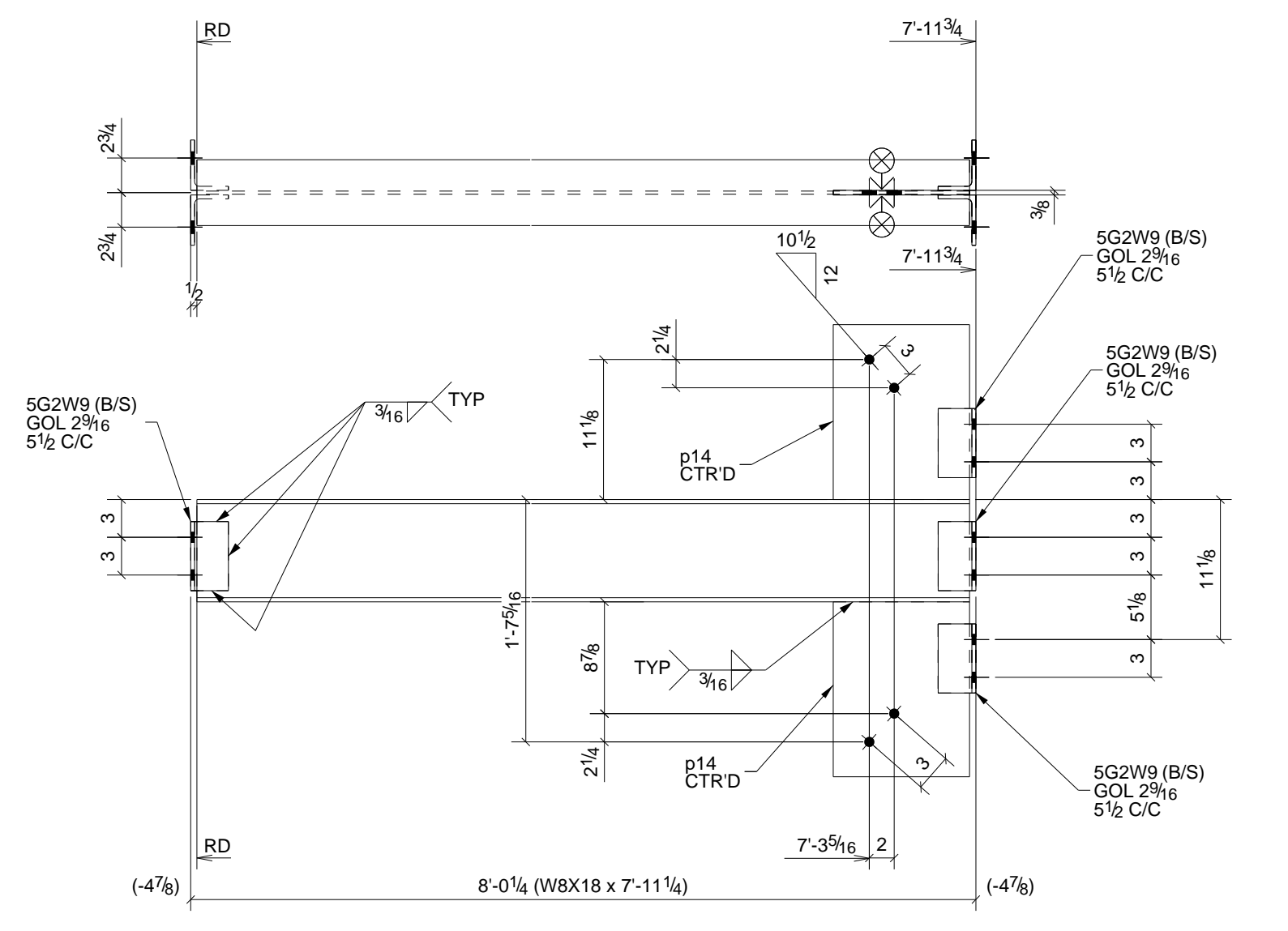
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 4) 1/4" EDGE DISTANCE U.N..
 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 2) GRIND ALL ROUGH EDGES SMOOTH.
 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

STEEL ASTM A992 ELECTRODES E70XX LH WELDS 1/4" Fillet / B OPEN HOLES 13/16 BOLTS A325N TMC PAINT PER SPEC/GC	PROJECT NAME Norfolk Southern Project LOCATION Norfolk Southern - Altoona, Pennsylvania CONTRACTOR Leonard S. Fiore ARCHITECT H F Lenz Company	Altoona Pipe And Steel Supply Co. Altoona, Pa 16603-0112 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com
DATE 6/22/09 NO. 12/5/16 x 7/16" DESCRIPTION 12" x 11 1/2" x 1/2" BY TMC TMC For Approval TMC For Fabrication F&F	DATE 06/22/2009 DRAWN BY TMAC JOB NO. 3-21051 DRG NO. 10	BEAM DETAILS

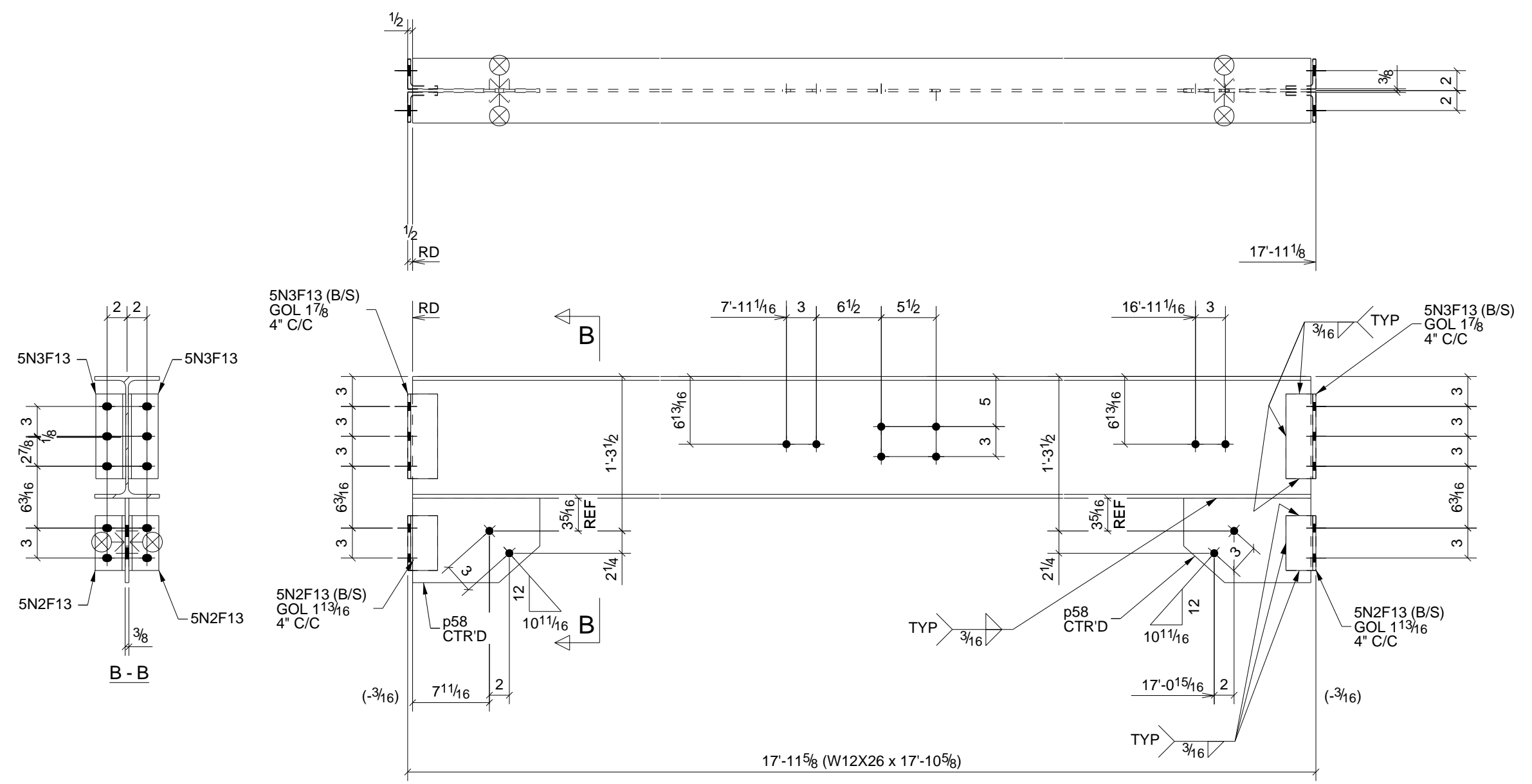
BILL OF MATERIAL

Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Ea.	Mark			Total		Mat #	Grade
1	11B1	BEAM					
1	1	W8X18	7'-11 1/4"	142	SQ2		A992
8	5G2W9	L4X3X5/16	0'-5 1/2"	26			A36
2	p14	PL3/8"X10 13/16"	1'-1 15/16"	32			A36
1	11B2	BEAM					
1	1	W12X26	17'-10 5/8"	466	SQ2		A992
4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
4	5N3F13	L3X3X5/16	0'-8 1/2"	17			A36
2	p58	PL3/8"X8 1/2"	1'-0 3/4"	21			A36
1	11B3	BEAM					
1	1	W8X18	8'-8 3/4"	156	SQ2		A992
4	5G2W9	L4X3X5/16	0'-5 1/2"	13			A36
1	11B4	BEAM					
1	1	W12X26	17'-10 5/8"	466	SQ2		A992
4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
4	5N3F13	L3X3X5/16	0'-8 1/2"	17			A36
2	p58	PL3/8"X8 1/2"	1'-0 3/4"	21			A36
1	11B5	BEAM					
1	1	W12X65	17'-11 1/4"	1112	SQ2		A992
4	5G3W9	L4X3X5/16	0'-8 1/2"	20			A36
1	p20	PL3/8"X8 3/16"	1'-0 3/4"	6			A36
2	p94	FL1/2"X5 3/4"	0'-10 13/16"	17			A36
1	11B6	BEAM					
1	1	W12X65	17'-11 1/4"	1112	SQ2		A992
6	5G2W9	L4X3X5/16	0'-5 1/2"	20			A36
4	5G3W9	L4X3X5/16	0'-8 1/2"	20			A36
1	p19	PL3/8"X11"	0'-11"	13			A36
2	p34	PL3/8"X10 1/2"	0'-10 9/16"	24			A36



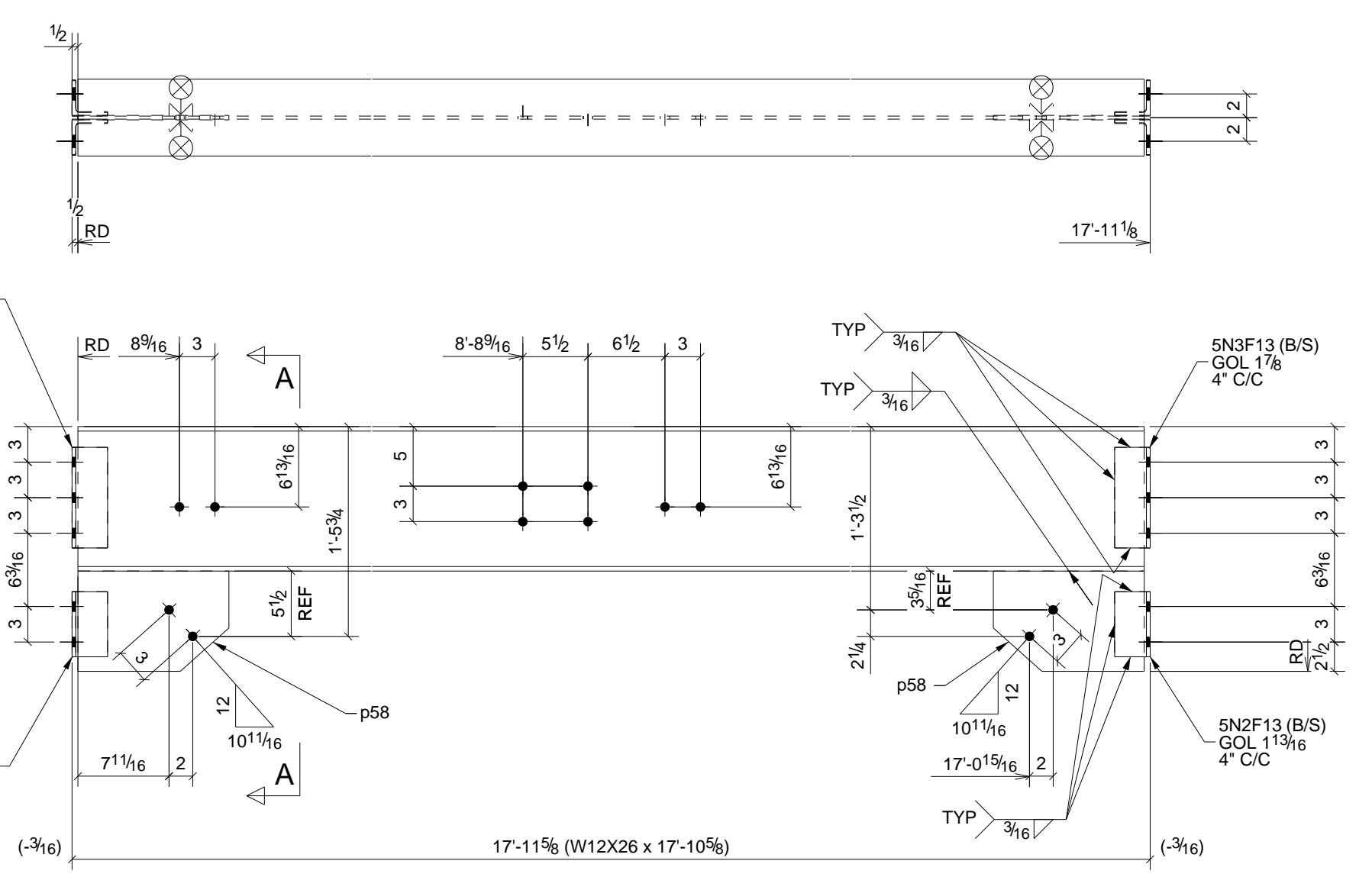
ONE - BEAM - 11B1

W 8 1/8" x 1 1/4"
F 5 1/4" x 5/16"



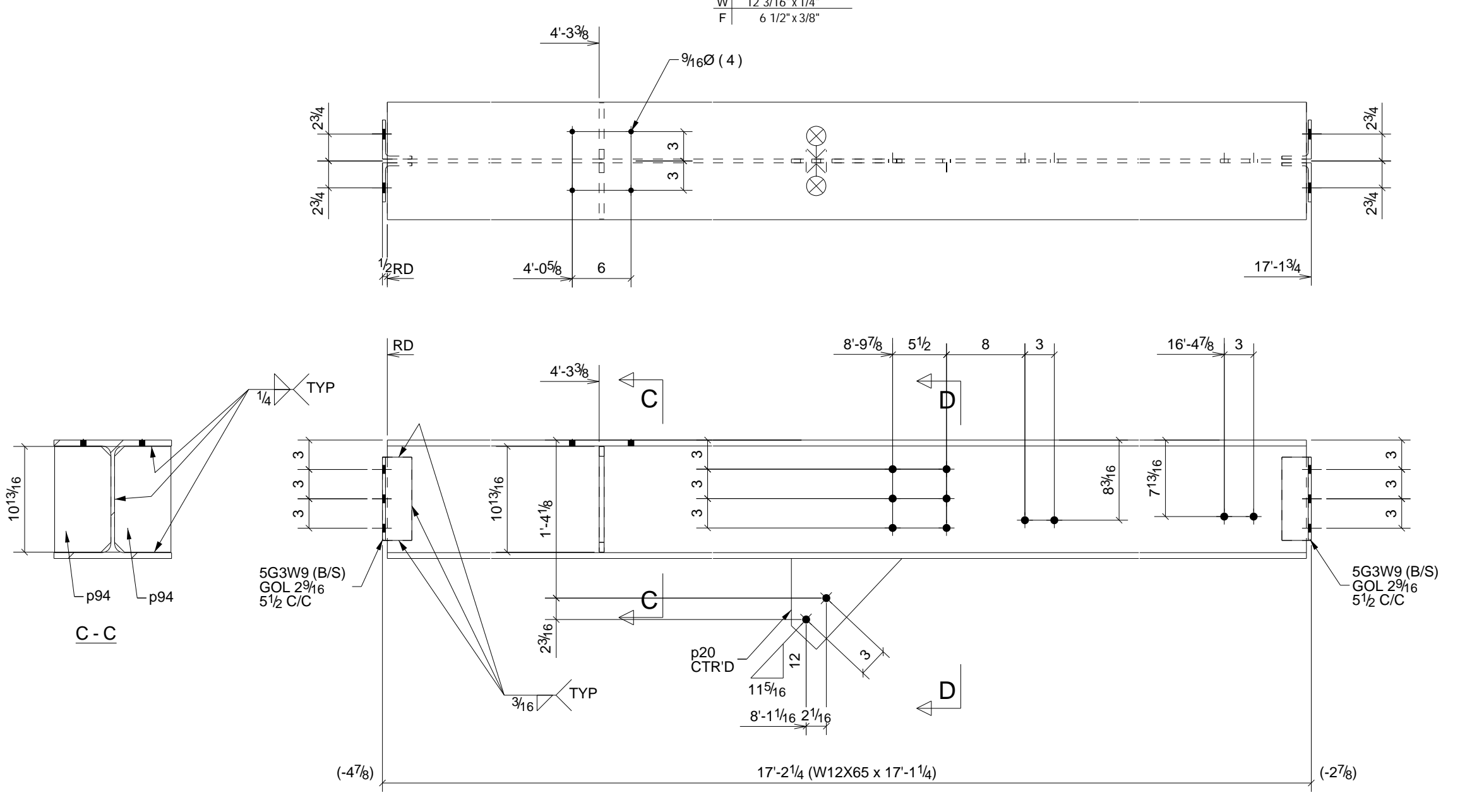
ONE - BEAM - 11B4

W 12 3/16" x 1 1/4"
F 6 1/2" x 3/8"



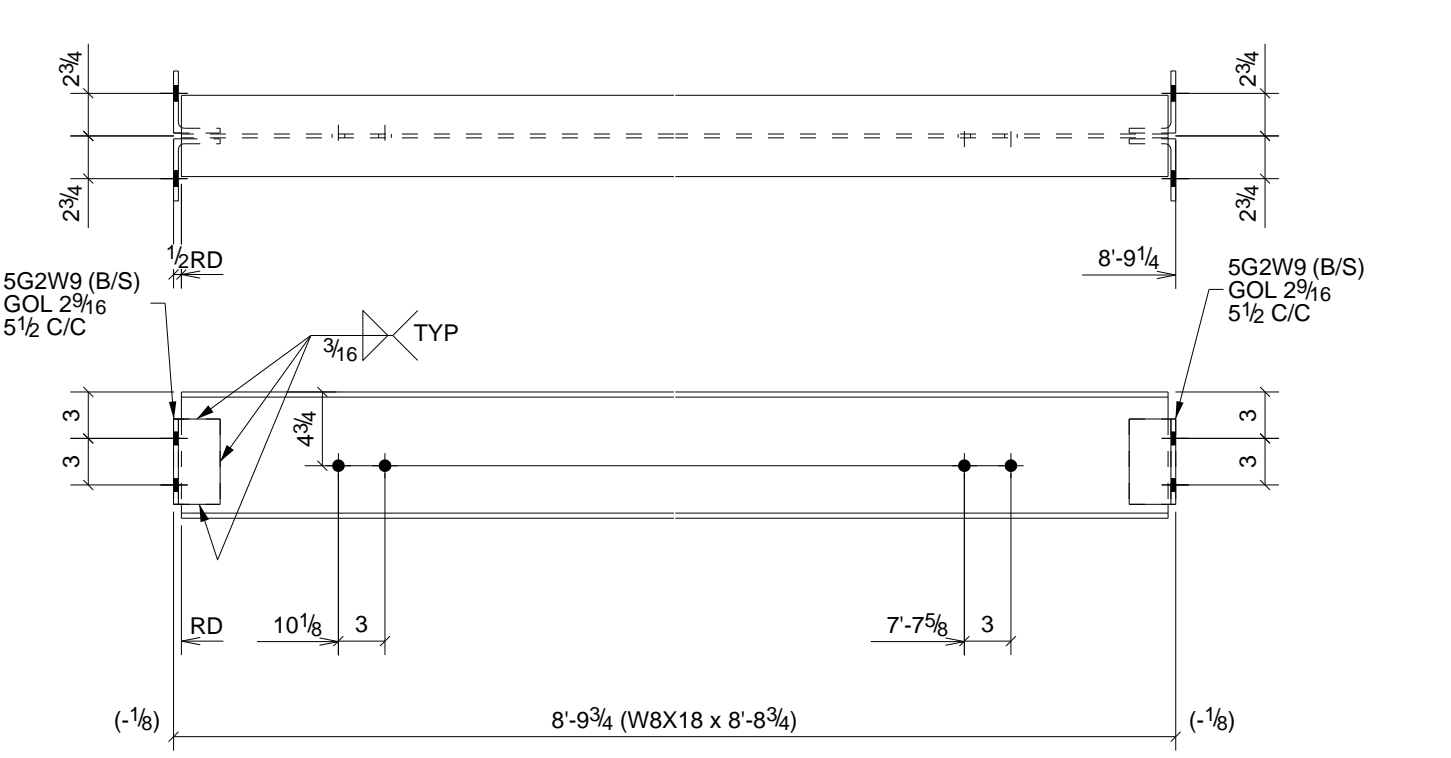
ONE - BEAM - 11B2

W 12 3/16" x 1 1/4"
F 6 1/2" x 3/8"



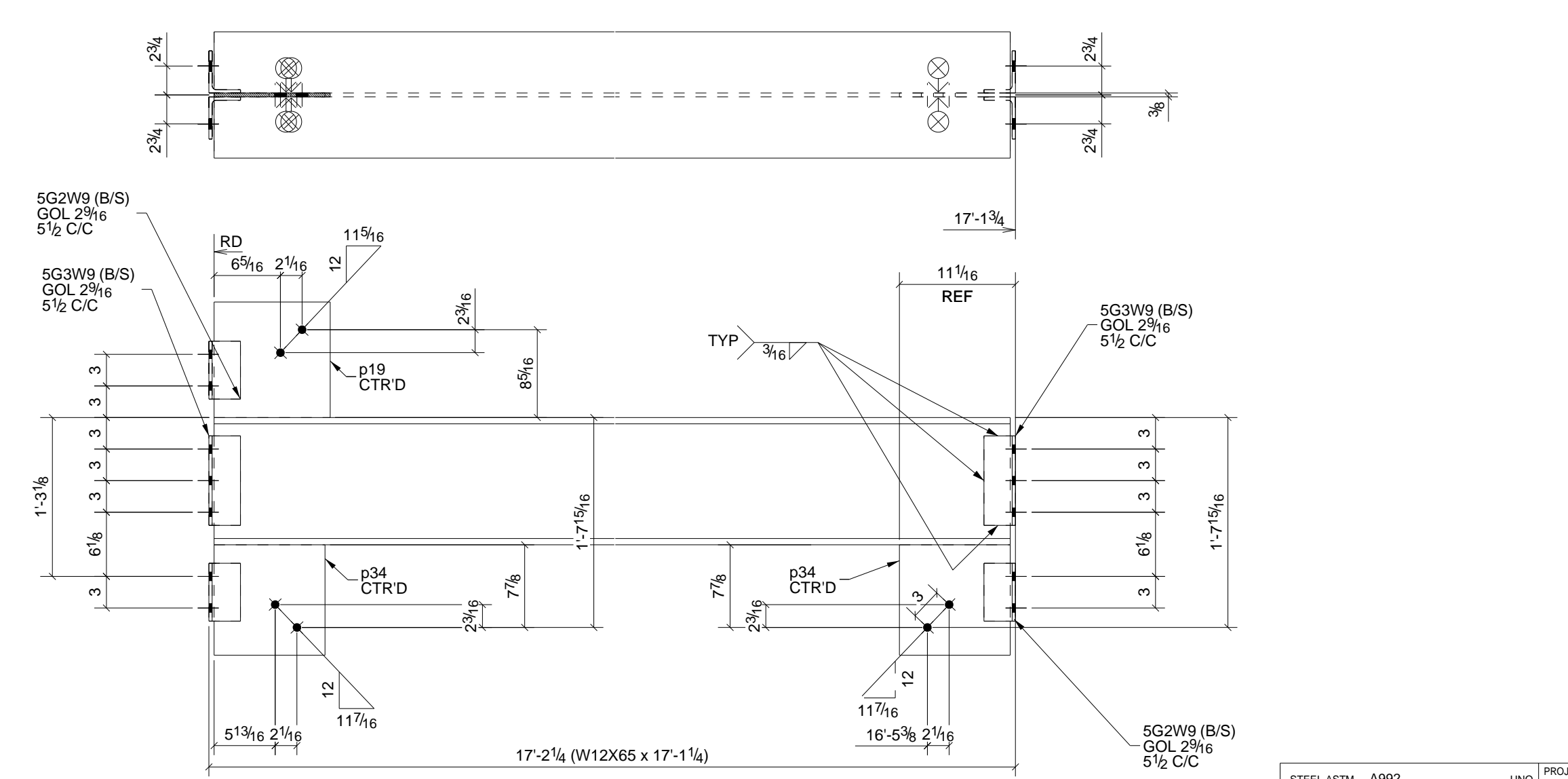
ONE - BEAM - 11B5

W 12 1/8" x 3/8"
F 12" x 5/8"



ONE - BEAM - 11B3

W 8 1/8" x 1 1/4"
F 5 1/4" x 5/16"



ONE - BEAM - 11B6

W 12 1/8" x 3/8"
F 12" x 5/8"

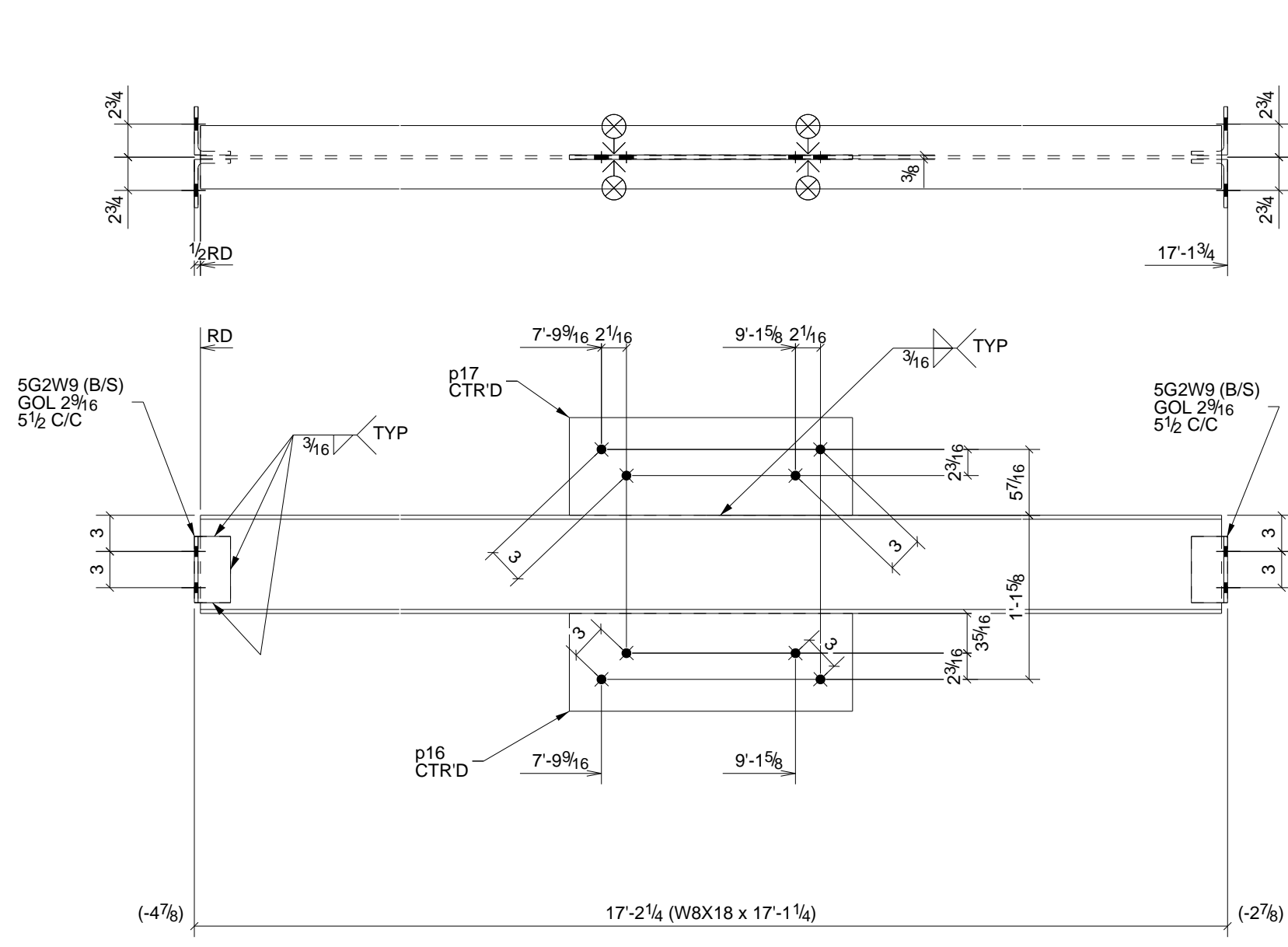
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/2" EDGE DISTANCE U.N.O.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

STEEL ASTM A992	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	ARCHITECT	H F Lenz Company
BOLTS A325N		
TMC PAINT PER SPEC/GC		

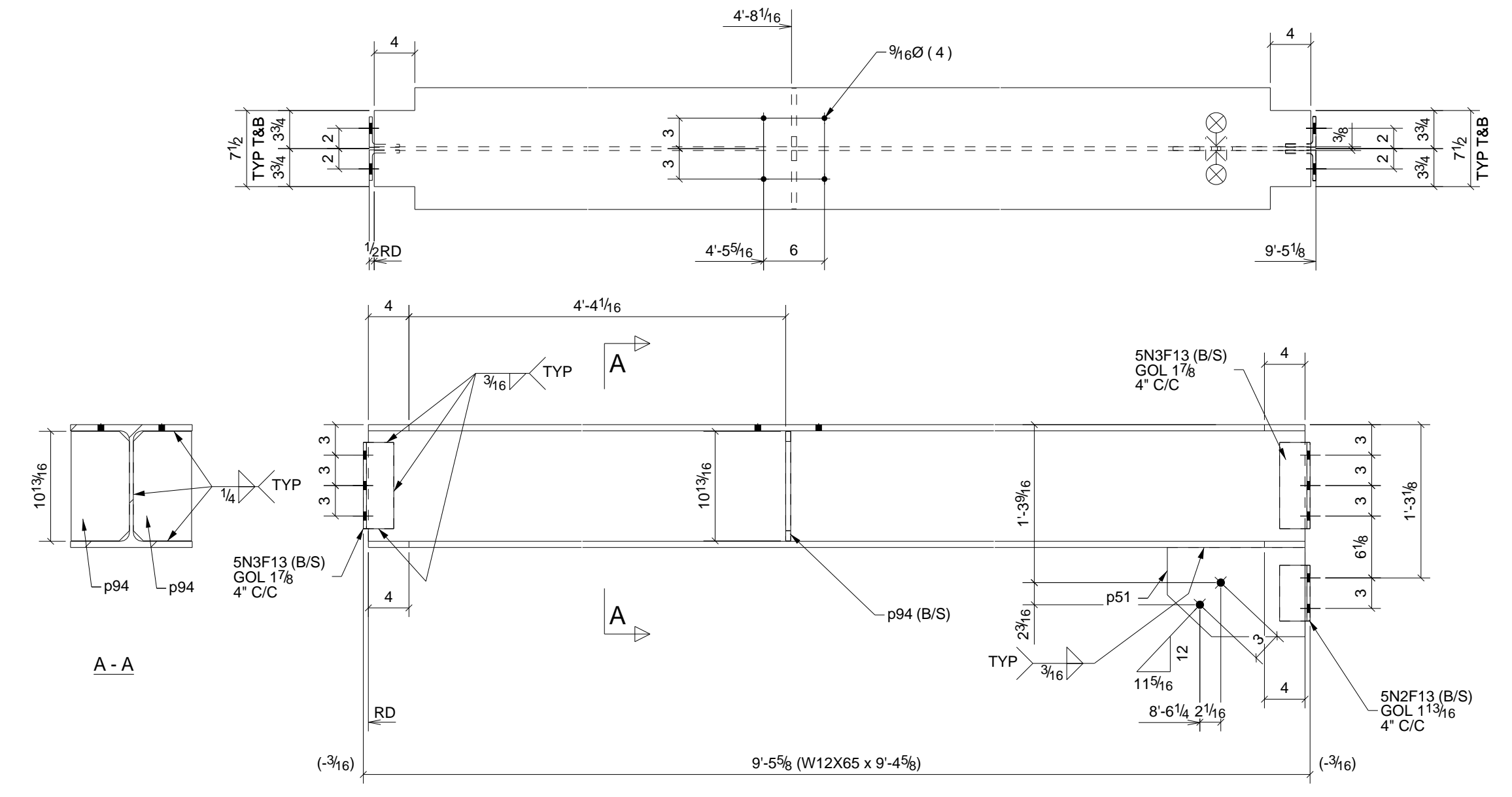
Altoona Pipe And Steel Supply Co.		DATE 06/22/2009	JOB No. 3-21051
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		DRAWN BY TMAC	DRG No. 11
DESCRIPTION	BEAM DETAILS		

DATE	NO.	DESCRIPTION	BY
6/22/09	1	For Approval	TMC
7/17/09	2	For Fabrication F&F	TMC



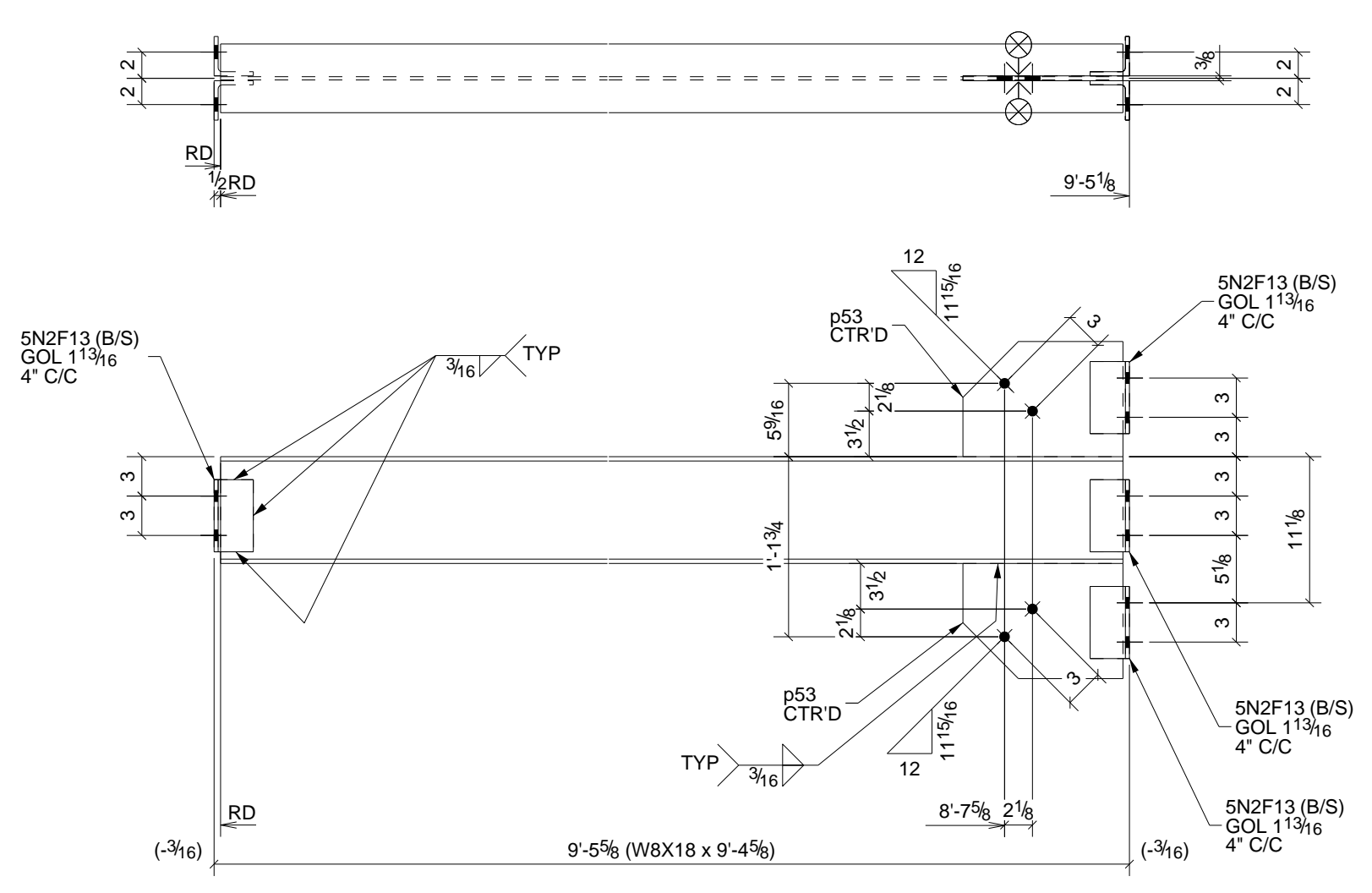
2 - BEAMS - 12B1

W 8 1/8" x 1 1/4"
F 5 1/4" x 5/16"



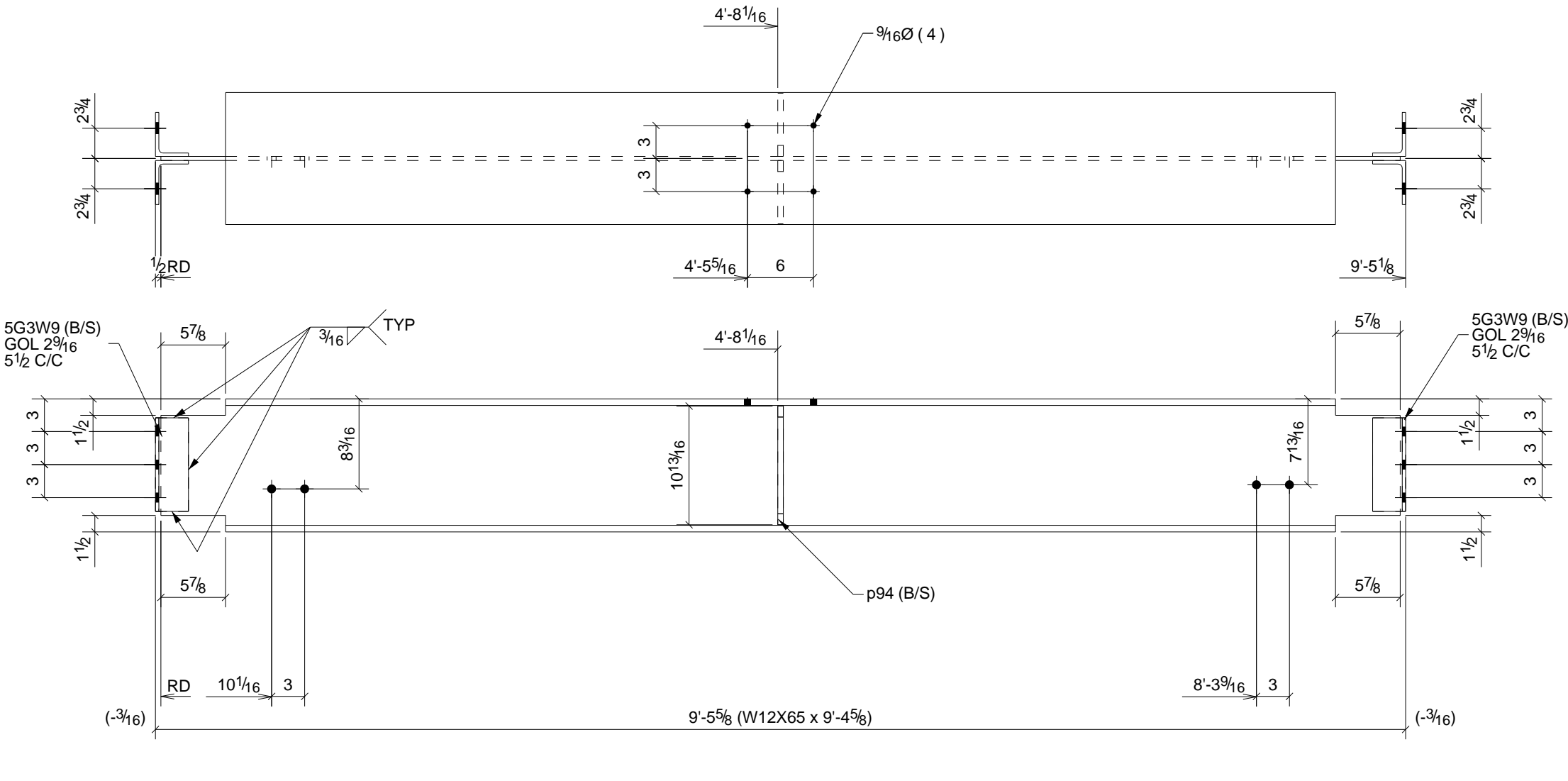
ONE - BEAM - 12B4

W 12 1/8" x 3/8"
F 12" x 5/8"



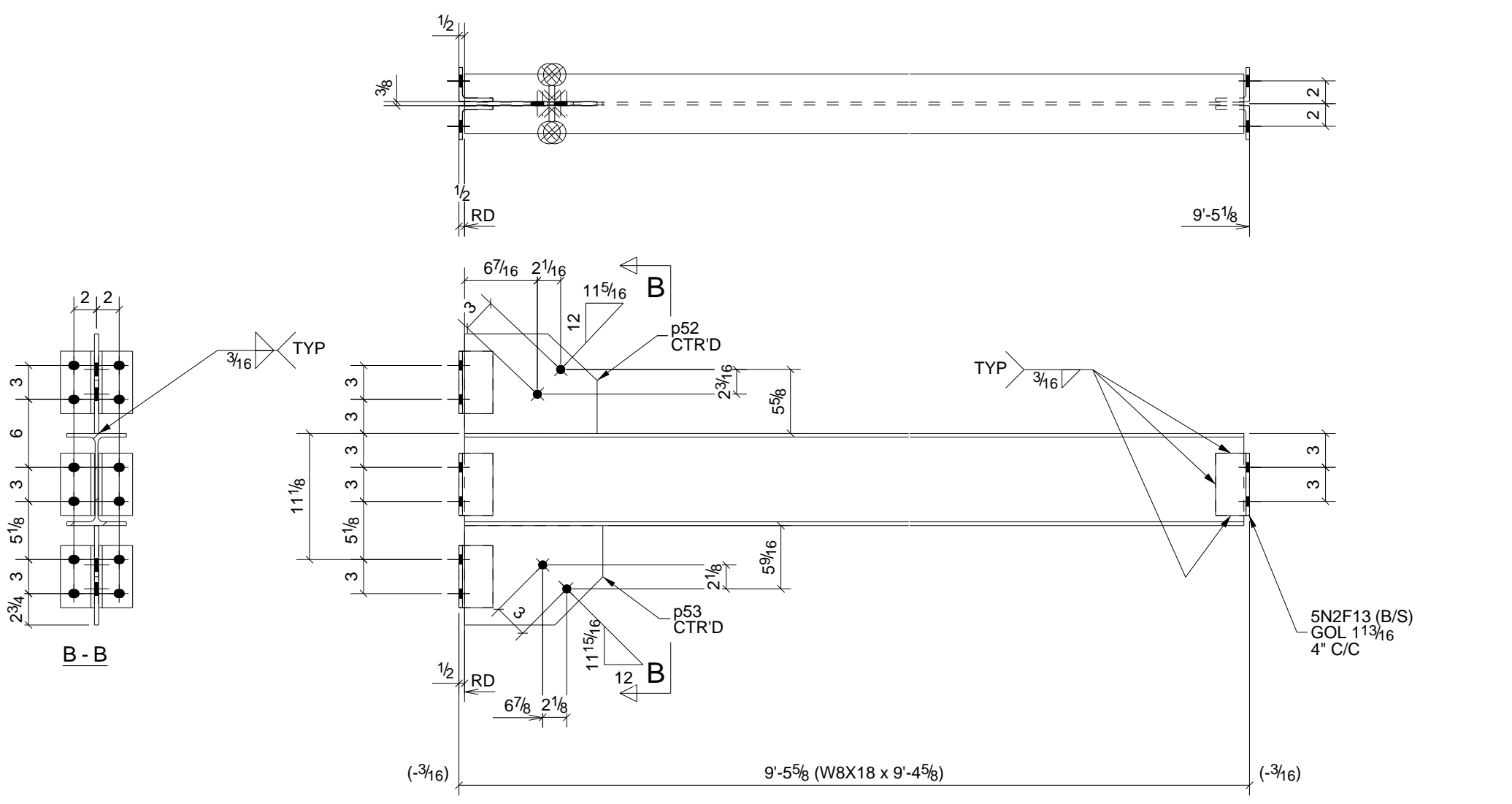
2 - BEAMS - 12B2

W 8 1/8" x 1 1/4"
F 5 1/4" x 5/16"



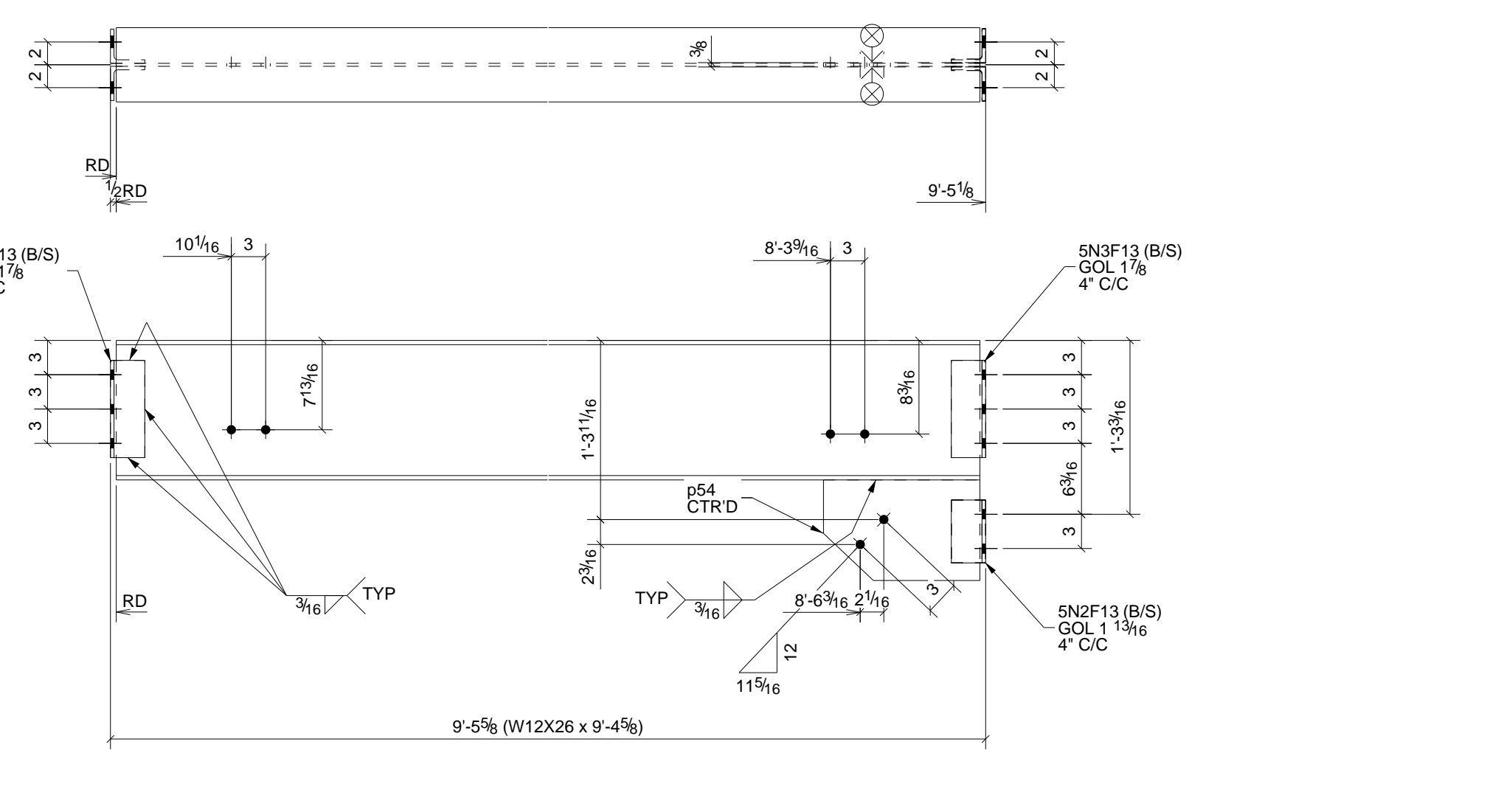
ONE - BEAM - 12B5

W 12 1/8" x 3/8"
F 12" x 5/8"



ONE - BEAM - 12B3

W 8 1/8" x 1 1/4"
F 5 1/4" x 5/16"



ONE - BEAM - 12B6

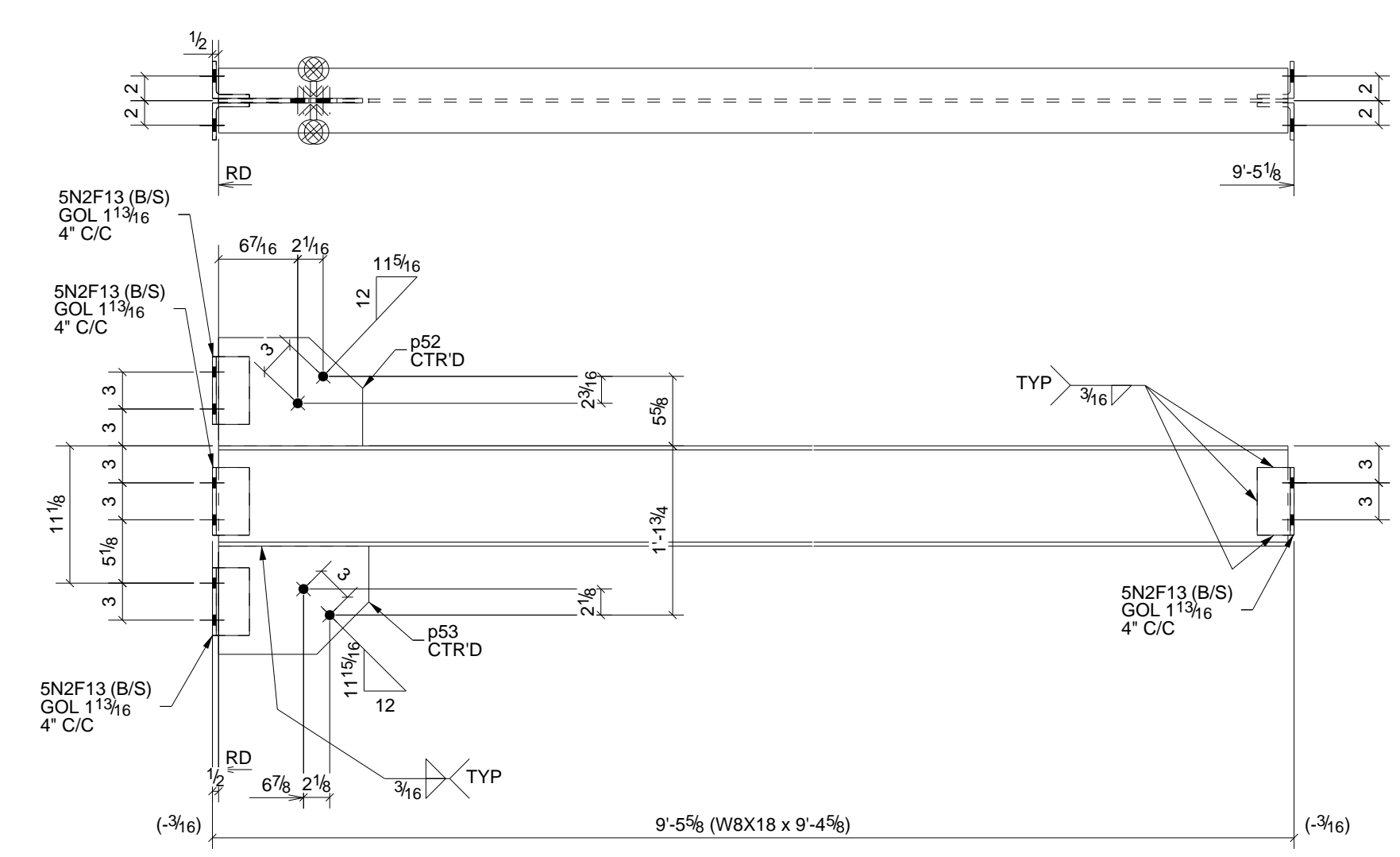
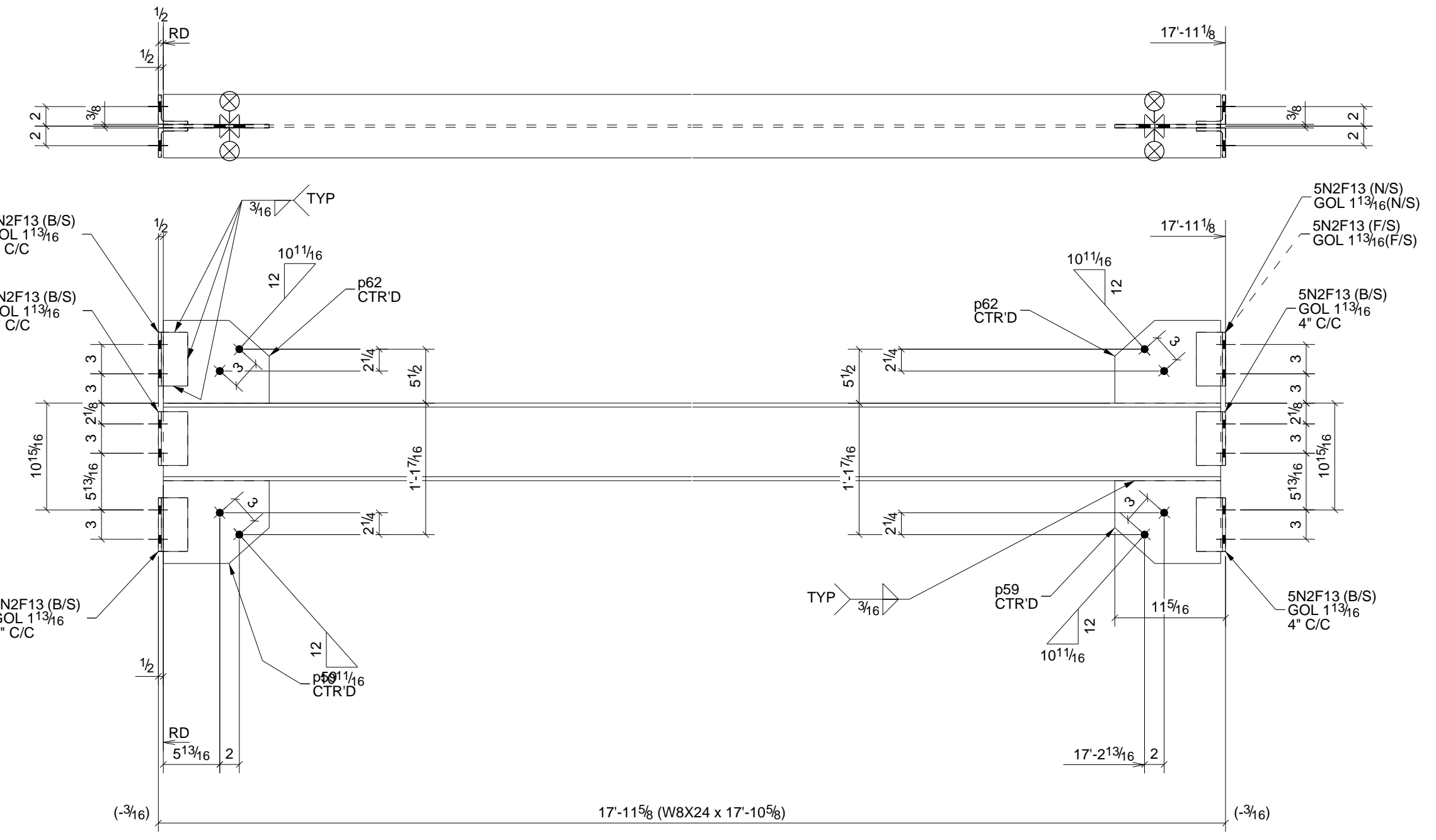
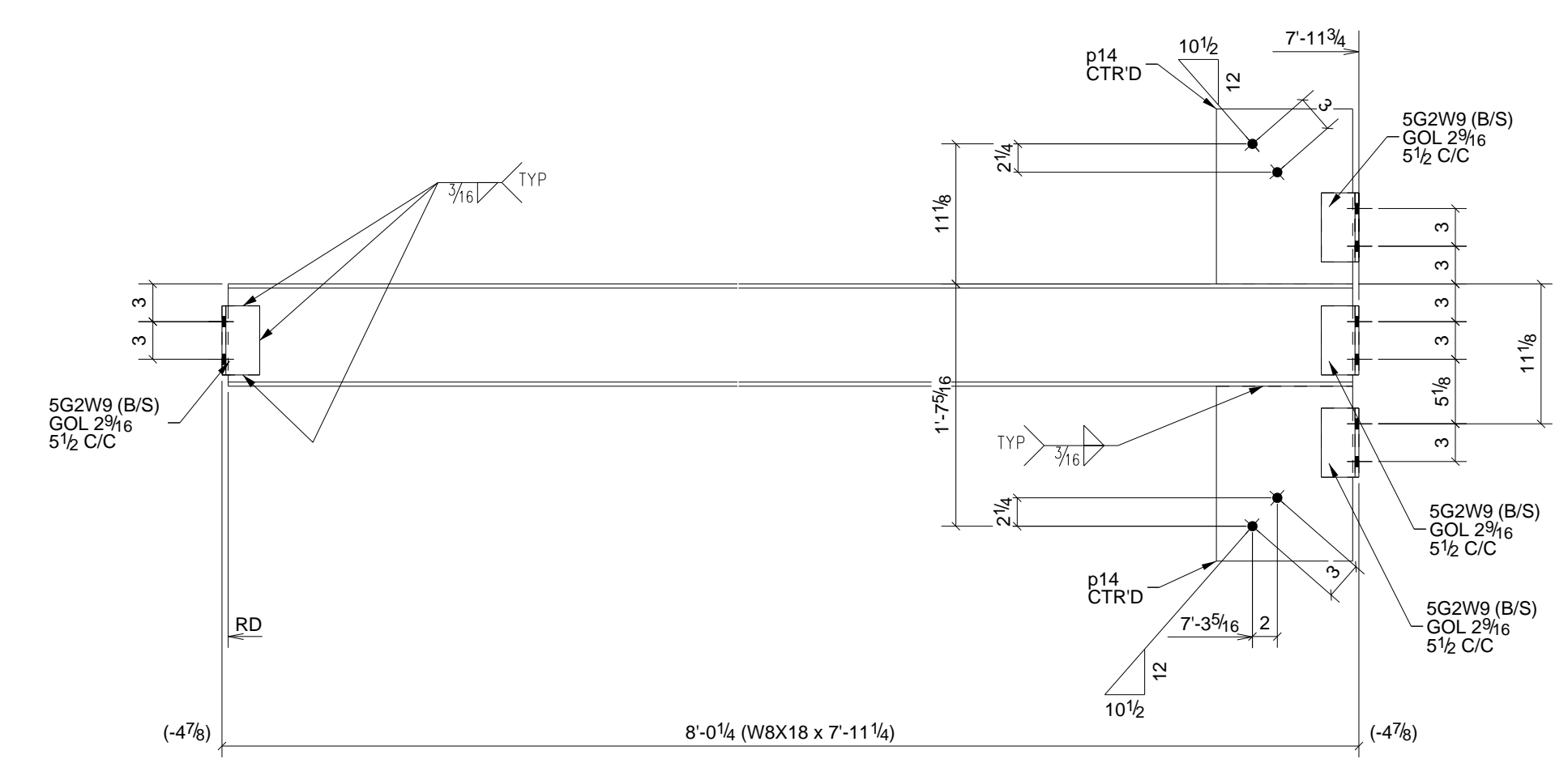
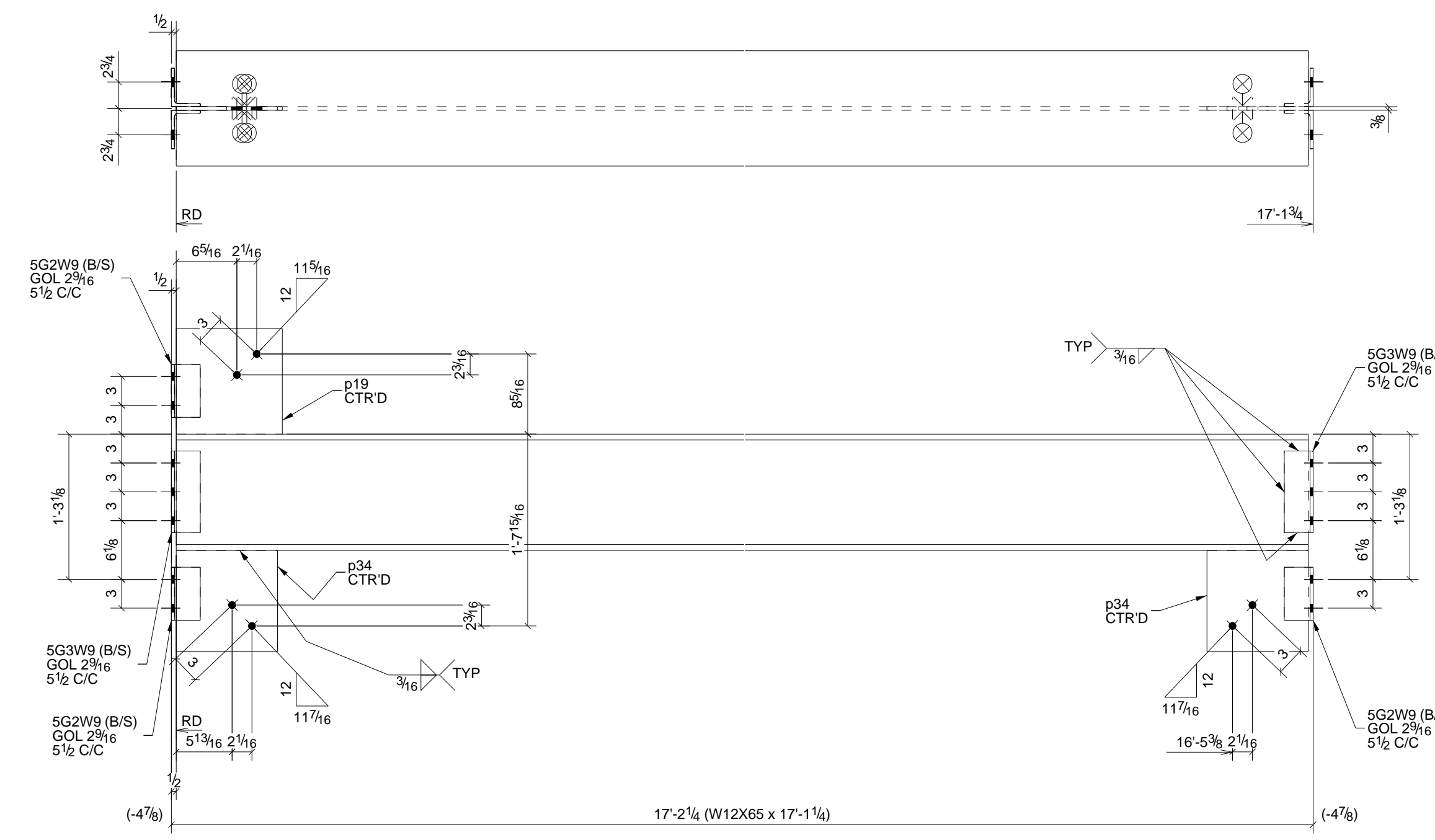
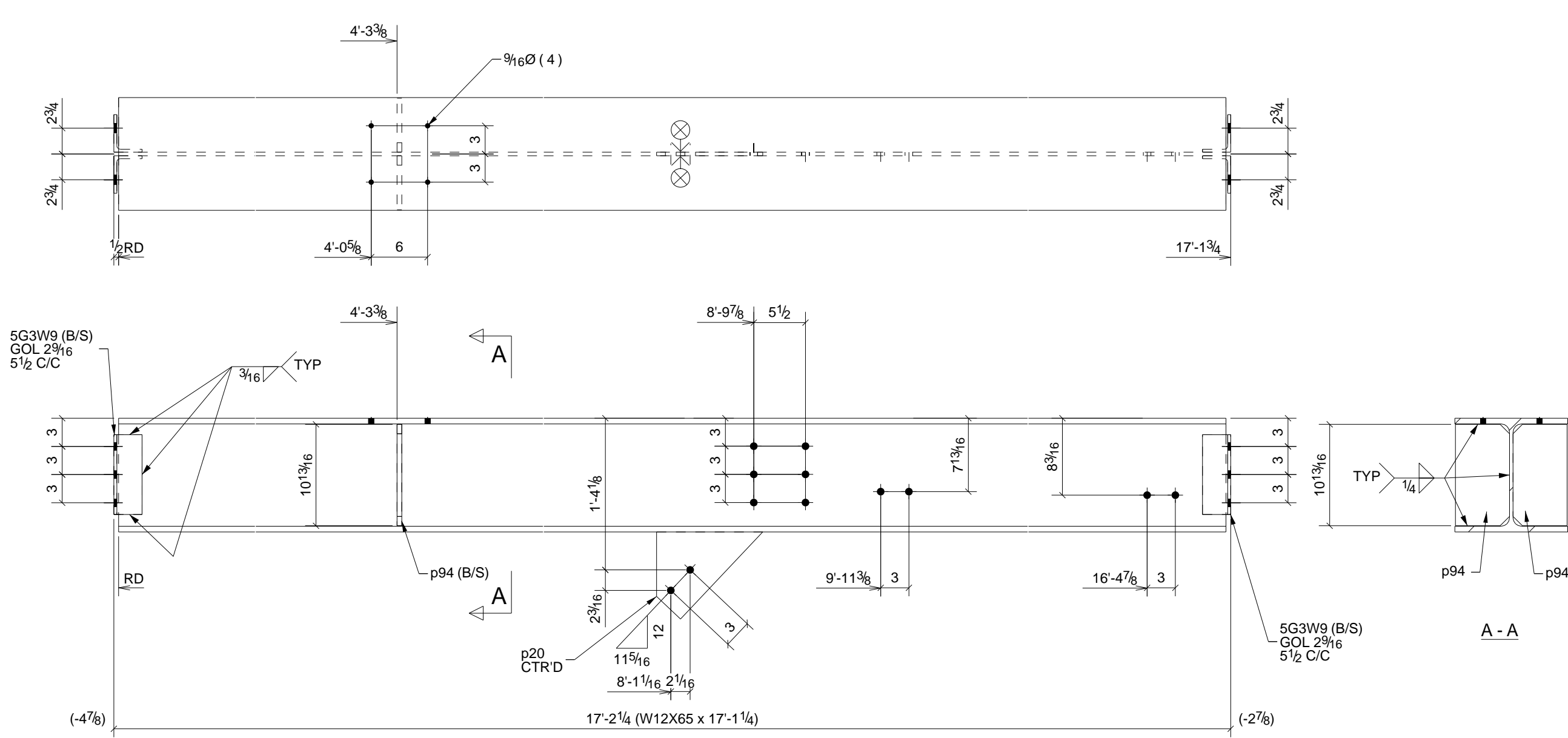
W 12 3/16" x 1 1/4"
F 6 1/2" x 3/8"

DATE	NO.	DESCRIPTION	BY
6/22/09	1	For Approval	TMC
7/17/09	2	For Fabrication F&F	TMC

STEEL ASTM	A992	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH <td>LOCATION</td> <td>Norfolk Southern - Altoona, Pennsylvania</td>	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Filler / B <td>CONTRACTOR</td> <td>Leonard S. Fiore</td>	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16 <td>ARCHITECT</td> <td>H F Lenz Company</td>	ARCHITECT	H F Lenz Company
BOLTS	A325N		
PAINT	PER SPEC/GC		

BILL OF MATERIAL						
Qty Ea.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks
2	2	12B1	BEAMS			
			W8X18	17'-1 1/4"	612	SQ2
4	8	5G2W9	L4X3X5/16	0'-5 1/2"	26	A36
1	2	p16	PL3/8"X8 1/8"	1'-11 1/2"	40	A36
1	2	p17	PL3/8"X8 1/8"	1'-11 1/2"	40	A36
2	2	12B2	BEAMS			
			W8X18	9'-4 5/8"	336	SQ2
8	16	5N2F13	L3X3X5/16	0'-5 1/2"	44	A36
2	4	p53	PL3/8"X8 3/4"	1'-0 3/16"	42	A36
1	1	12B3	BEAM			
			W8X18	9'-4 5/8"	168	SQ2
8	8	5N2F13	L3X3X5/16	0'-5 1/2"	22	A36
1	1	p52	PL3/8"X8 13/16"	0'-11 11/16"	10	A36
1	1	p53	PL3/8"X8 3/4"	1'-0 3/16"	10	A36
1	1	12B4	BEAM			
			W12X65	9'-4 5/8"	610	SQ2
2	2	5N2F13	L3X3X5/16	0'-5 1/2"	6	A36
4	4	5N3F13	L3X3X5/16	0'-8 1/2"	17	A36
1	1	p51	PL3/8"X8 13/16"	1'-1 9/16"	12	A36
2	2	p94	FL1/2"X5 3/4"	0'-10 13/16"	17	A36
1	1	12B5	BEAM			
			W12X65	9'-4 5/8"	610	SQ2
4	4	5G3W9	L4X3X5/16	0'-8 1/2"	20	A36
2	2	p94	FL1/2"X5 3/4"	0'-10 13/16"	17	A36
1	1	12B6	BEAM			
			W12X26	9'-4 5/8"	244	SQ2
2	2	5N2F13	L3X3X5/16	0'-5 1/2"	6	A36
4	4	5N3F13	L3X3X5/16	0'-8 1/2"	17	A36
1	1	p54	PL3/8"X8 13/16"	1'-1 11/16"	12	A36

Altoona Pipe And Steel Supply Co.		DATE	06/22/2009	JOB NO.	3-21051
Altoona, Pa. 16603-0112		DRAWN BY	TMAC	DRG NO.	12
(814) 944-1631 FAX (814) 944-1635 altoonapeandsteel.com		BEAM DETAILS			



BILL OF MATERIAL

Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Mark			Total		Mat #	Grade
1	13B1	BEAM					
1	1	W12X65	17'-1 1/4"	1112	SQ2		A992
4	4	5G3W9 L4X3X5/16	0'-8 1/2"	20			A36
1	1	p20 PL3/8"X8 3/16"	1'-0 3/4"	6			A36
2	2	p94 FL1/2"X5 3/4"	0'-10 13/16"	17			A36
2	13B2	BEAMS					
2	2	W8X18	7'-11 1/4"	284	SQ2		A992
16	16	5G2W9 L4X3X5/16	0'-5 1/2"	52			A36
2	4	p14 PL3/8"X10 13/16"	1'-1 15/16"	64			A36
1	13B3	BEAM					
1	1	W8X18	9'-4 5/8"	168	SQ2		A992
8	8	5N2F13 L3X3X5/16	0'-5 1/2"	22			A36
1	1	p52 PL3/8"X8 13/16"	0'-11 11/16"	10			A36
1	1	p53 PL3/8"X8 3/4"	1'-0 3/16"	10			A36
1	13B4	BEAM					
1	1	W12X65	17'-1 1/4"	1112	SQ2		A992
6	6	5G2W9 L4X3X5/16	0'-5 1/2"	20			A36
4	4	5G3W9 L4X3X5/16	0'-8 1/2"	20			A36
1	1	p19 PL3/8"X11"	0'-11"	13			A36
2	2	p34 PL3/8"X10 1/2"	0'-10 9/16"	24			A36
1	13B5	BEAM					
1	1	W8X24	17'-10 5/8"	431	SQ2		A992
12	12	5N2F13 L3X3X5/16	0'-5 1/2"	33			A36
2	2	p59 PL3/8"X8 1/2"	0'-10 13/16"	18			A36
2	2	p62 PL3/8"X8 1/2"	0'-10 13/16"	18			A36

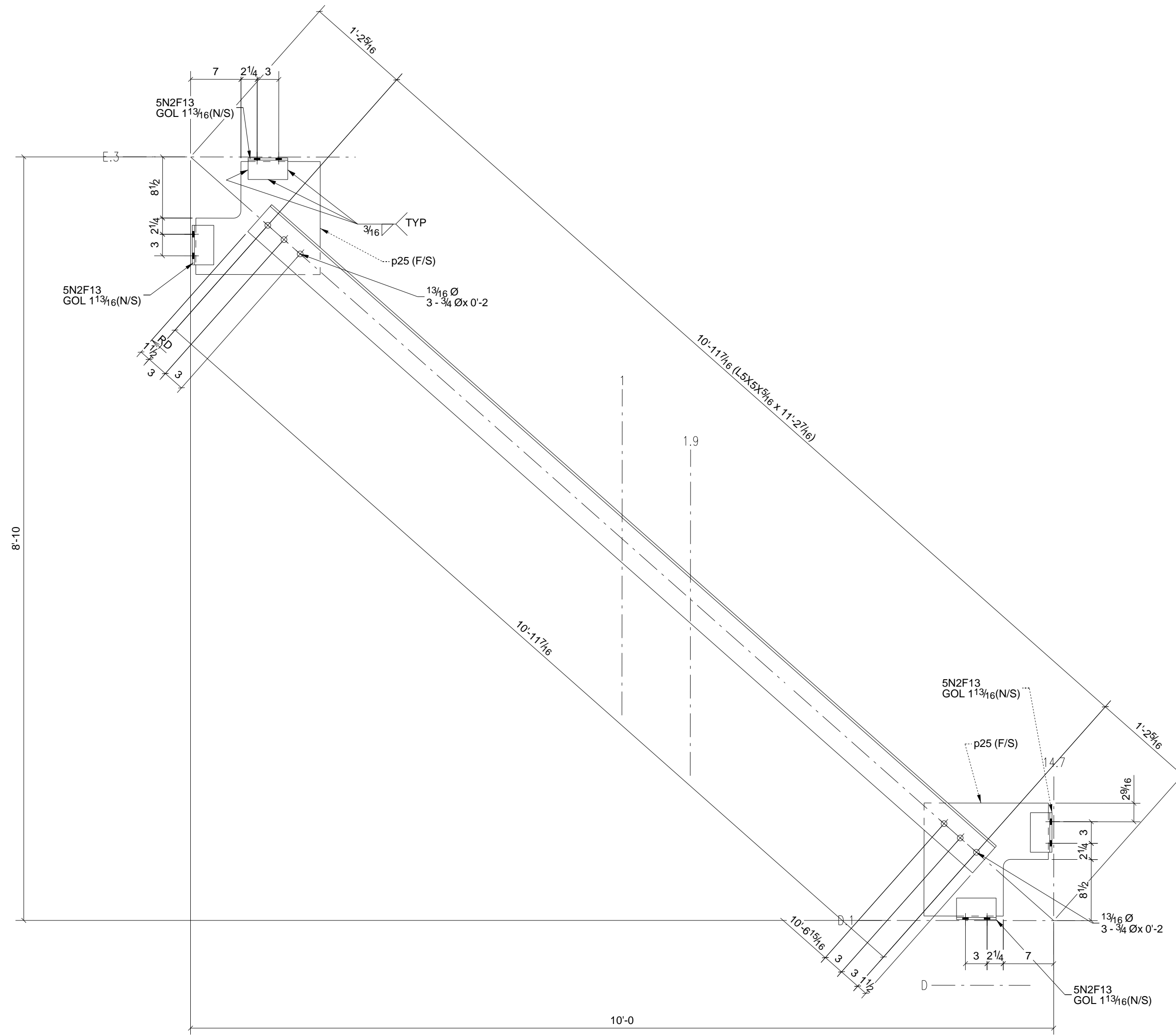
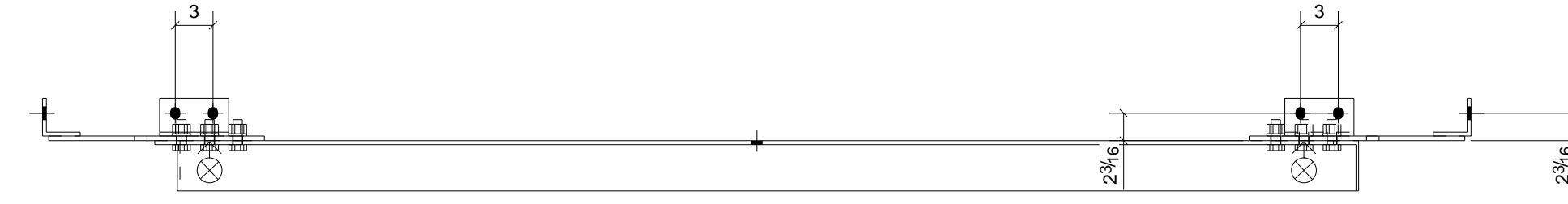
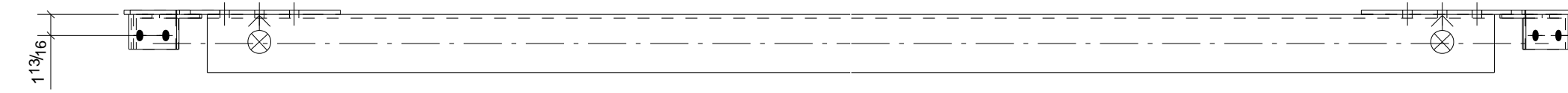
STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Filler / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO		
TMC PAINT PER SPEC/GC	UNO		

Altoona Pipe And Steel Supply Co.		DATE 06/22/2009	JOB No. 3-21051
(814) 944-1631 FAX (814) 944-1635 altoonapipandsteel.com		DRAWN BY TMAC	DRG No. 13
DESCRIPTION	BEAM DETAILS		

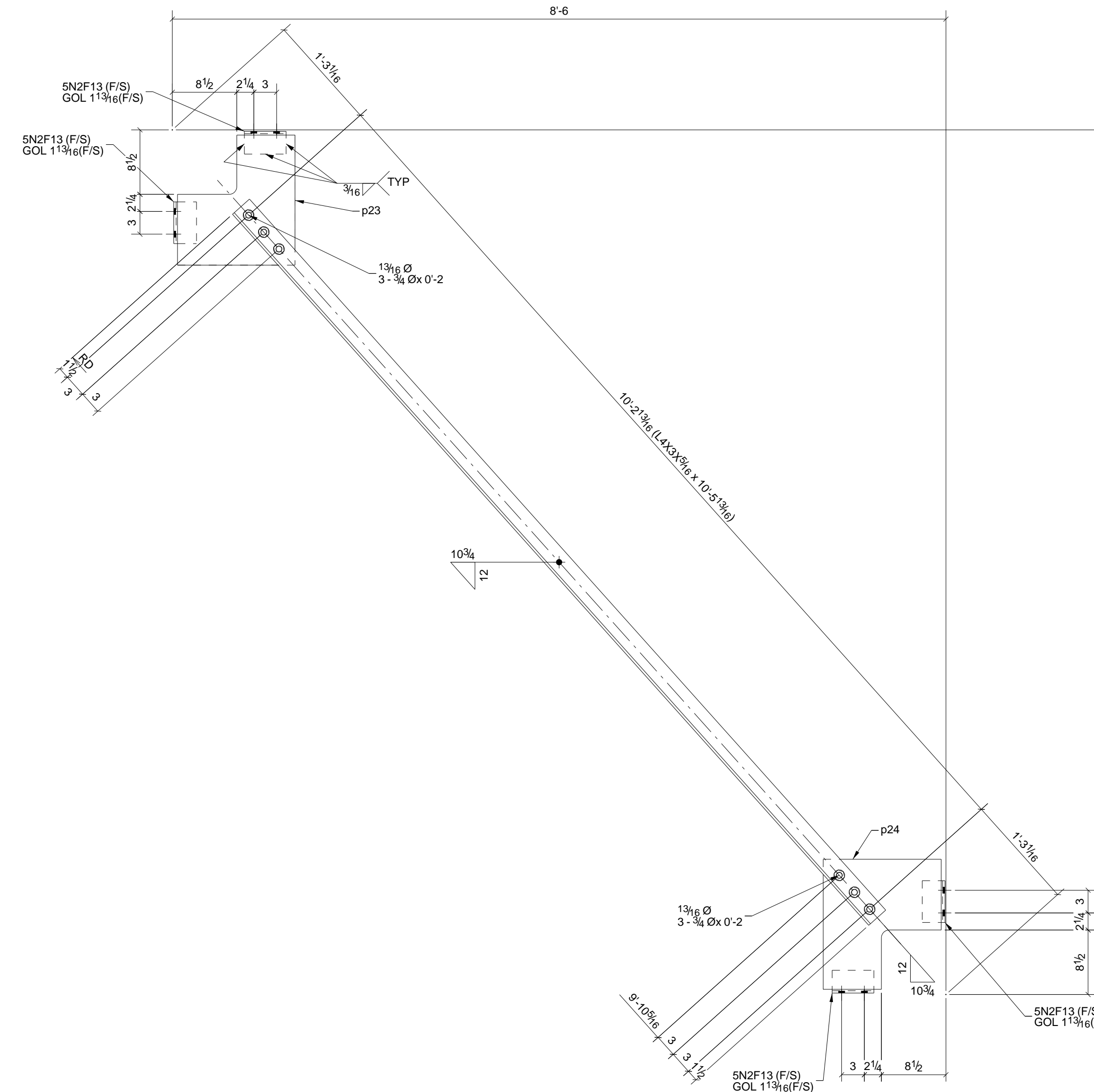
DATE	NO.	DESCRIPTION	BY
6/22/09	△	For Approval	TMC
7/17/09	△	For Fabrication F&F	TMC

BILL OF MATERIAL

Qty Est.	Qty Tot	Piece Mark	Description	Length	Weight Total	Remarks	Adv. Mill #	Steel Grade
1	1	14D1	DIAGONAL					
1	1		L5X5X5/16	11'-2 7/16"	116	SQ2		A36
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
2	2	p25	PL3/8"X15 11/16"	1'-5 1/4"	47			A36
6	6		3/4"Ø A325N BOLT	0'-2"	4			
1	1	14D2	DIAGONAL					
1	1		L4X3X5/16	10'-5 13/16"	75	SQ2		A36
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
1	1	p23	PL3/8"X15 1/2"	1'-5 1/8"	22			A36
1	1	p24	PL3/8"X15 9/16"	1'-5 1/8"	22			A36
6	6		3/4"Ø A325N BOLT	0'-2"	4			



ONE - DIAGONAL - 14D1



ONE - DIAGONAL - 14D2

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

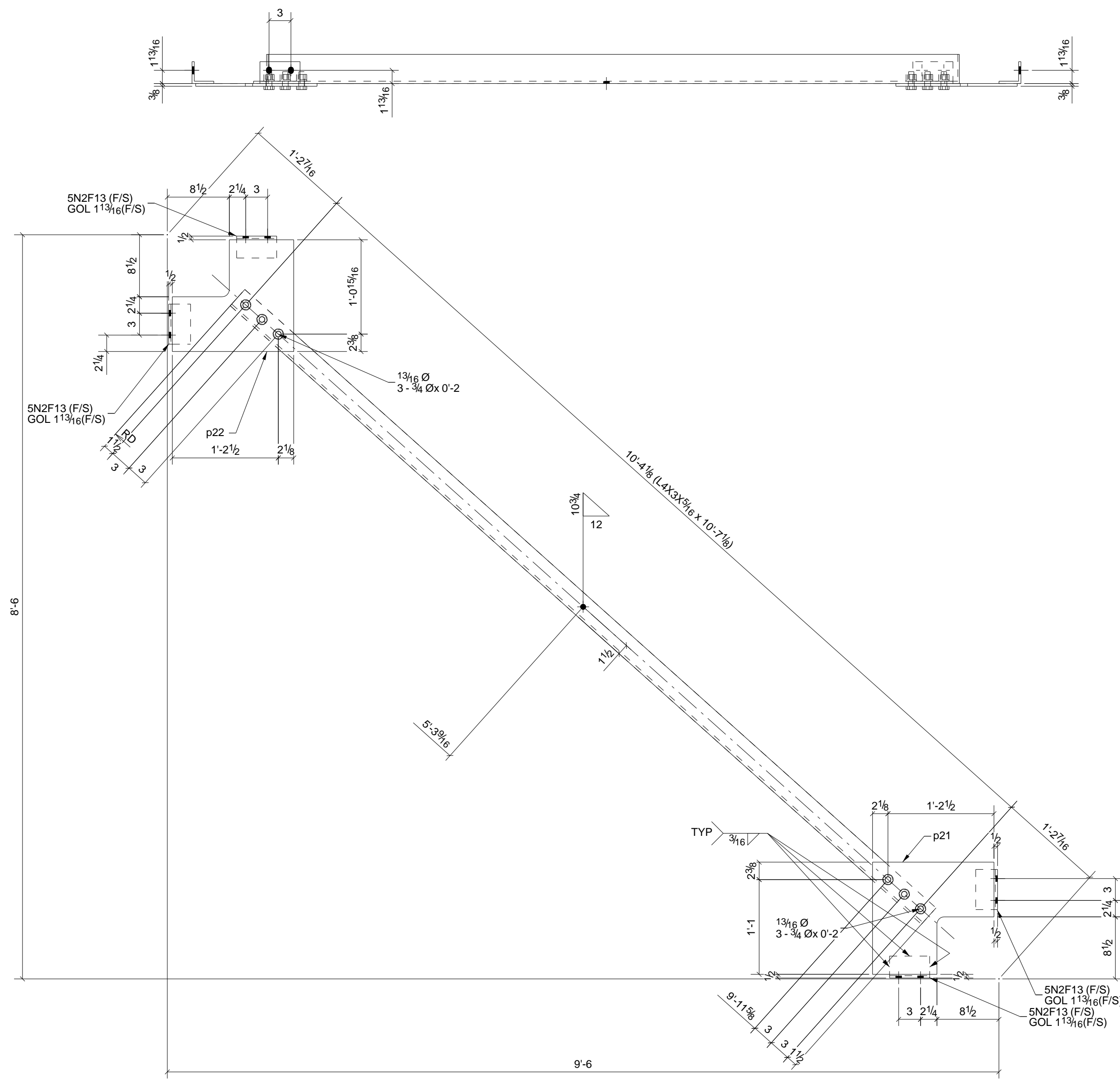
DATE	NO.	DESCRIPTION	BY
6/22/09	△	For Approval	TMC
7/17/09	△	For Fabrication F&F	TMC

STEEL ASTM	A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES	E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS	1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES	13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS	A325N	UNO		
PAINT	PER SPEC/GC	UNO		

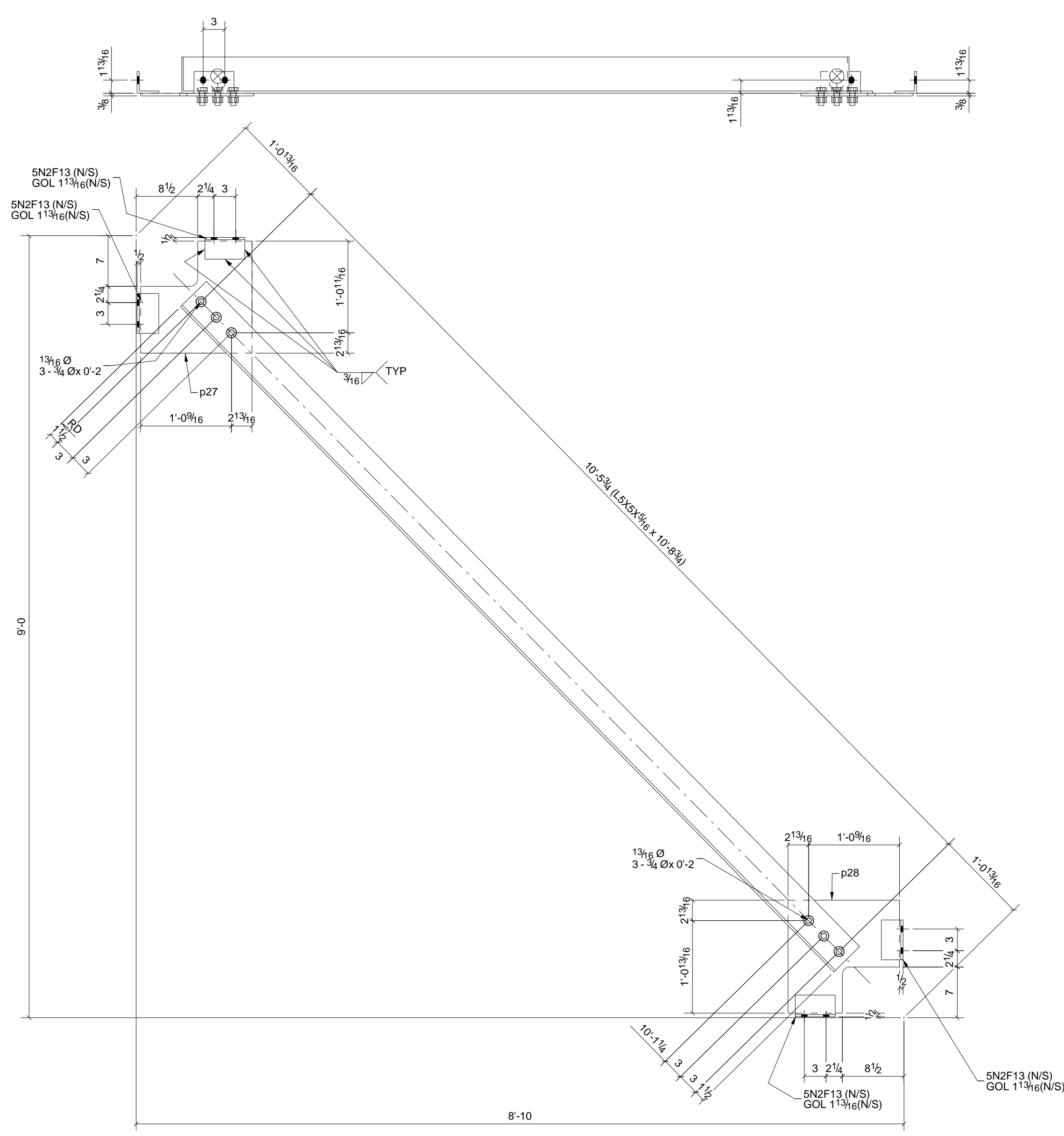
Altoona Pipe And Steel Supply Co.		DATE	06/22/2009	JOB No.	3-21051
Altoona, Pa 16603-0112		DRAWN BY	TMAC	DRG No.	14
(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com		BRACING DETAILS			

BILL OF MATERIAL

Qty	Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Tot.	Mark			Total		Mat #	Grade
1	1	15D1	DIAGONAL					
1	1		L4X3X5/16	10'-7 1/8"	75	SQ2		A36
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
1	1	p21	PL3/8"X15 3/8"	1'-4 5/8"	21			A36
1	1	p22	PL3/8"X15 5/16"	1'-4 5/8"	21			A36
6	6		3/4"Ø A325N BOLT	0'-2"	4			
1	1	15DB1	DIAGONAL					
1	1		L5X5X5/16	10'-8 3/4"	111	SQ2		A36
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11			A36
1	1	p27	PL3/8"X15 3/8"	1'-3 1/2"	20			A36
1	1	p28	PL3/8"X15 3/8"	1'-3 5/8"	20			A36
6	6		3/4"Ø A325N BOLT	0'-2"	4			



ONE - DIAGONAL - 15D1

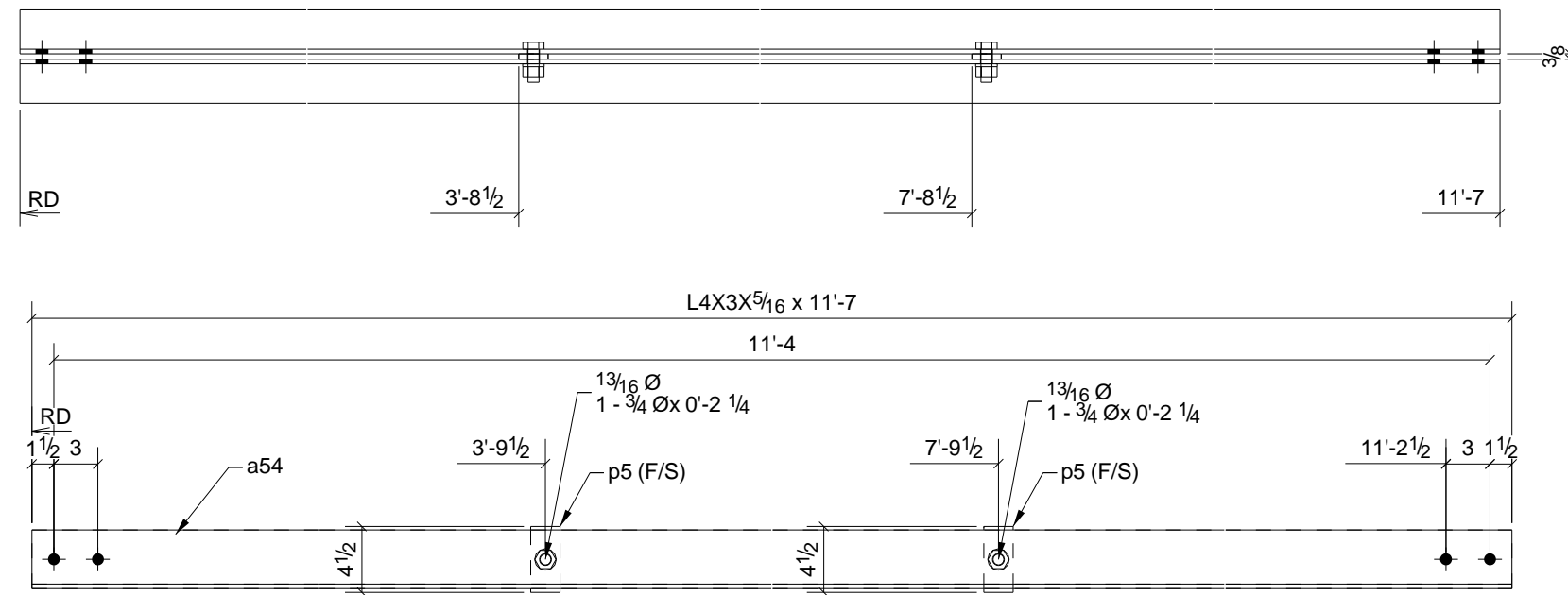


ONE - DIAGONAL - 15DB1

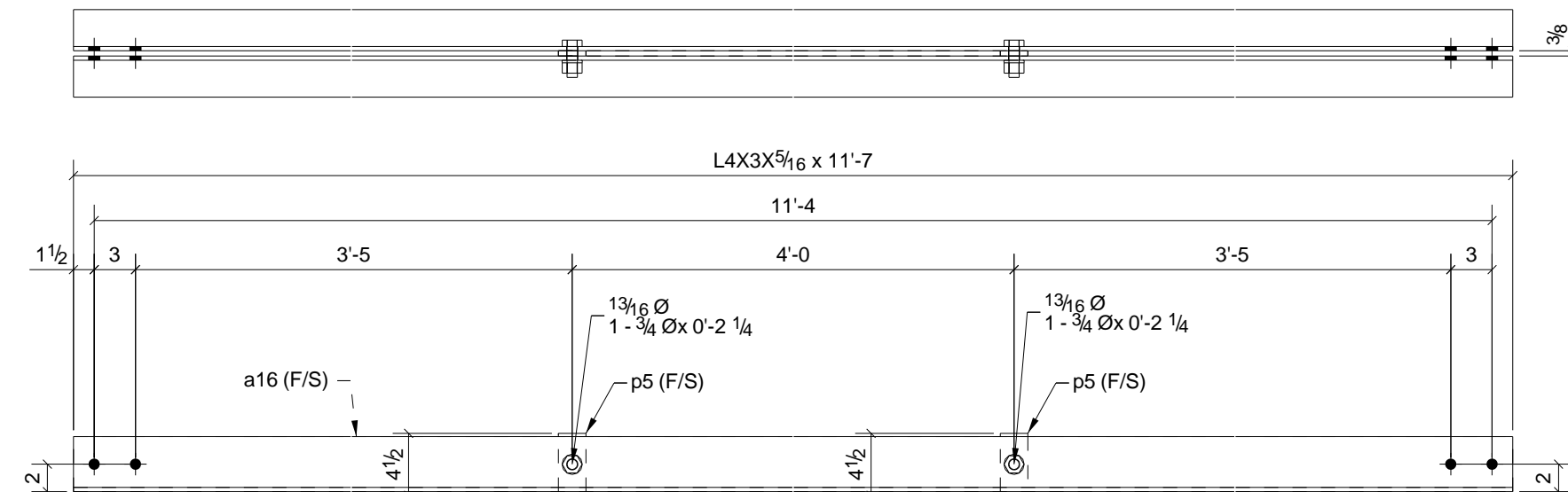
- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 4) 1/4" EDGE DISTANCE U.N.
 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 2) GRIND ALL ROUGH EDGES SMOOTH.
 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.
- GENERAL NOTES**

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BY		DATE	06/22/2009
TMC	For Approval	DRAWN BY	TMAC
TMC	For Fabrication F&F	JOB No.	3-21051
		BRACING DETAILS	DRG No. 15

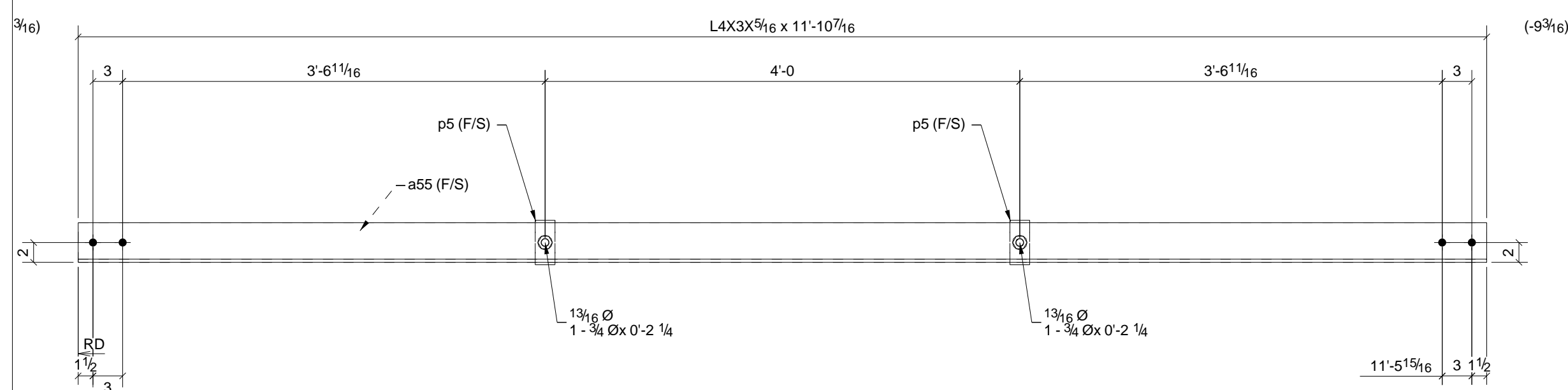
Altoona Pipe And Steel Supply Co.
 Altoona, Pa 16603-0112
 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com



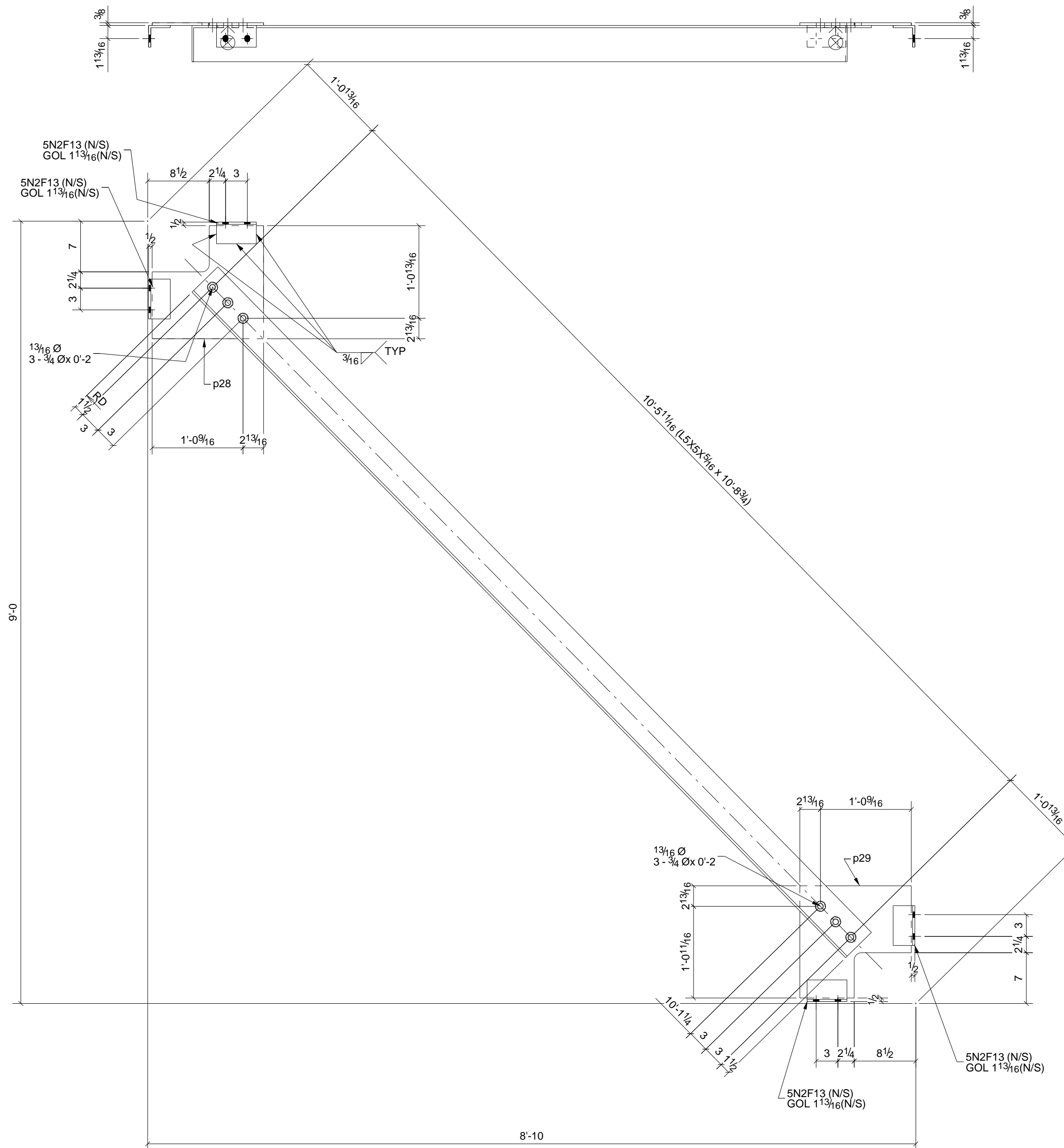
ONE - DIAGONAL - 16DB2



ONE - DIAGONAL - 16DB3



ONE - DIAGONAL - 16DB4



ONE - DIAGONAL - 16DB1

BILL OF MATERIAL

Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Mark			Total		Mat #	Grade
1	16DB1	DIAGONAL					
1	1	L5X5X5/16	10'-8 3/4"	111	SQ2		A36
4	4	5N2F13	L3X3X5/16	0'-5 1/2"	11		A36
1	1	p28	PL3/8"X15 3/8"	1'-3 5/8"	20		A36
1	1	p29	PL3/8"X15 3/8"	1'-3 1/2"	20		A36
6	6	3/4"Ø A325N BOLT	0'-2"	4			
1	16DB2	DIAGONAL					
1	1	L4X3X5/16	11'-7"	82	SQ2		A36
1	1	a54	L4X3X5/16	11'-7"	82		A36
2	2	p5	FL3/8"X2"	0'-4 1/2"	2		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	1			
1	16DB3	DIAGONAL					
1	1	L4X3X5/16	11'-7"	82	SQ2		A36
1	1	a16	L4X3X5/16	11'-7"	82		A36
2	2	p5	FL3/8"X2"	0'-4 1/2"	2		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	1			
1	16DB4	DIAGONAL					
1	1	L4X3X5/16	11'-10 7/16"	84	SQ2		A36
1	1	a55	L4X3X5/16	11'-10 7/16"	84		A36
2	2	p5	FL3/8"X2"	0'-4 1/2"	2		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	1			

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/2" EDGE DISTANCE U.N.O.
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

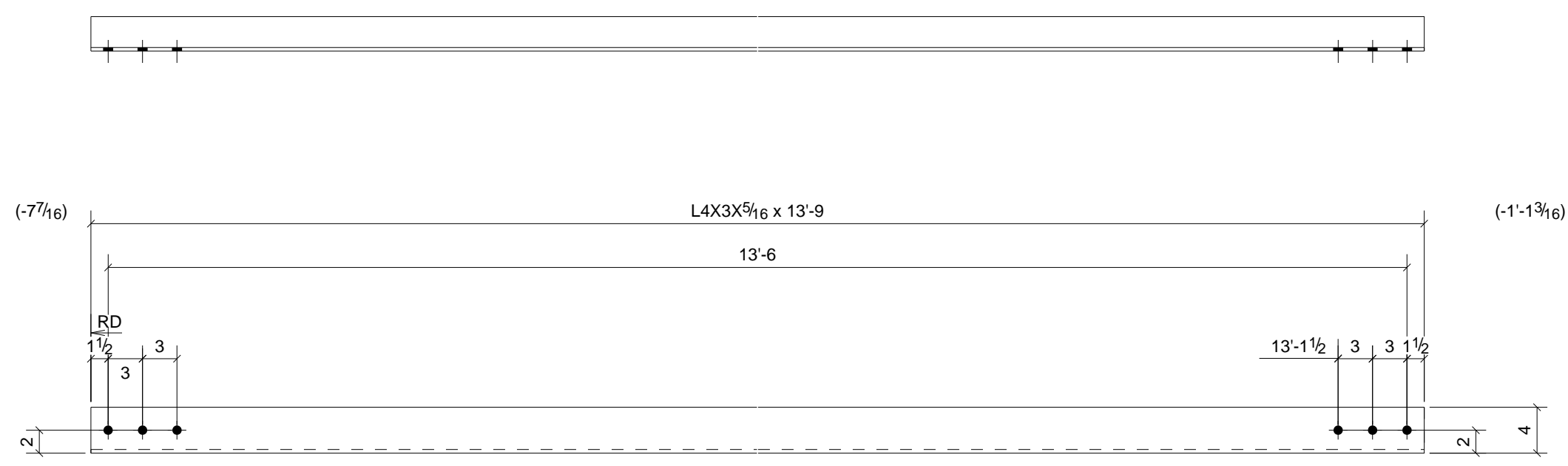
GENERAL NOTES

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BY BOLTS A325N	UNO	DATE	06/22/2009
TMC TMC	UNO	DRAWN BY	TMAC
TMC PAINT PER SPEC/GC	UNO	JOB No.	3-21051
		DRG No.	16

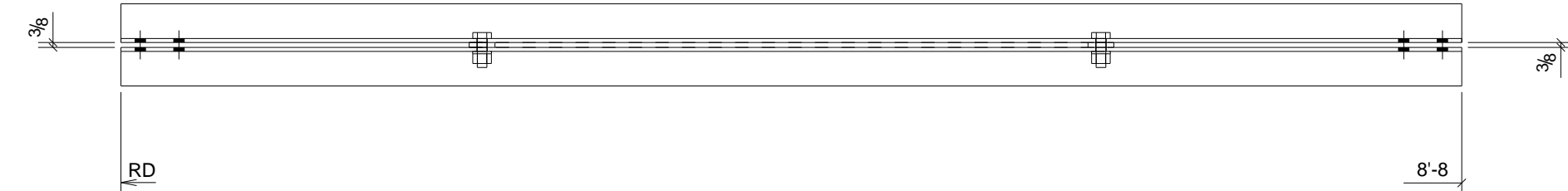
Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112

(814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com

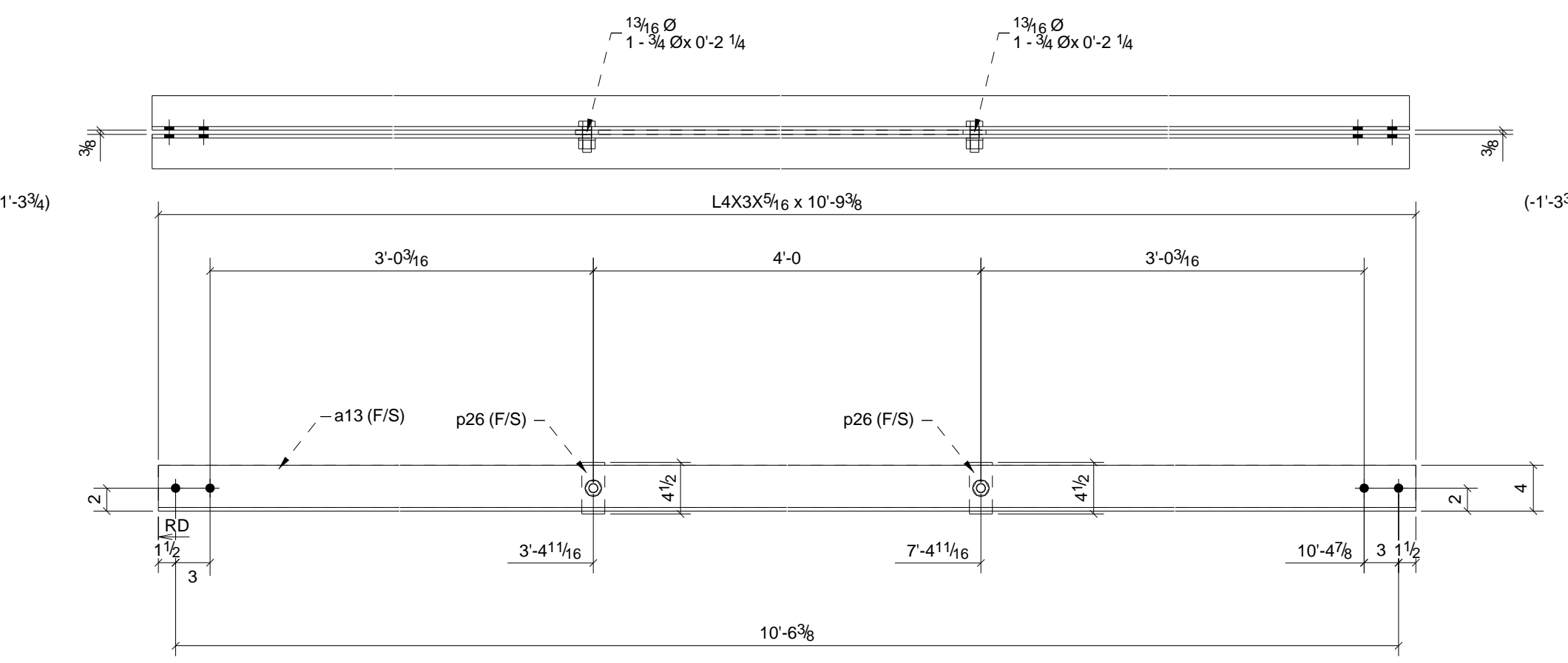
BRACING DETAILS



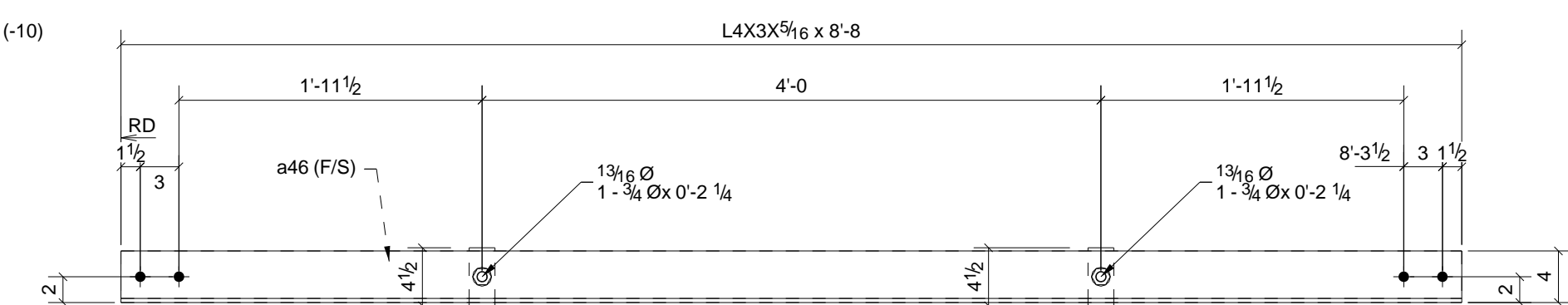
ONE - DIAGONAL - 17DB1



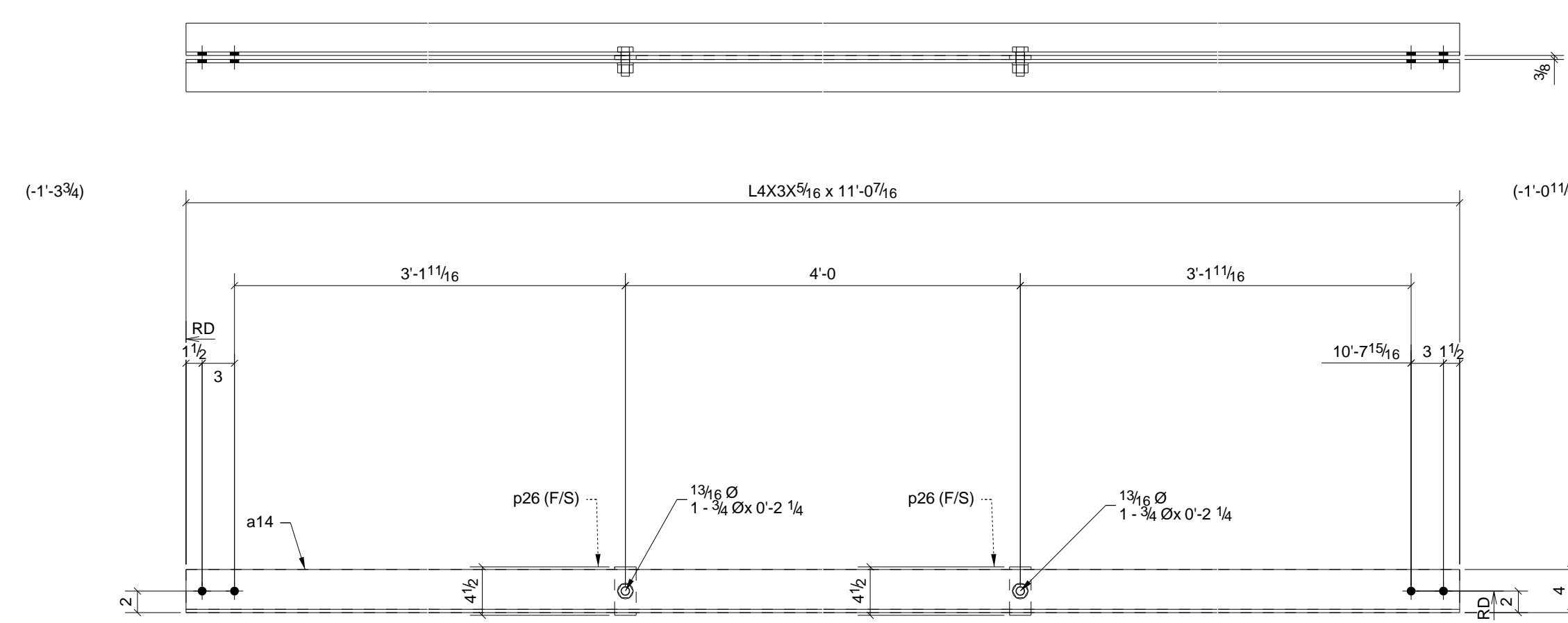
ONE - BRACE - 17D1



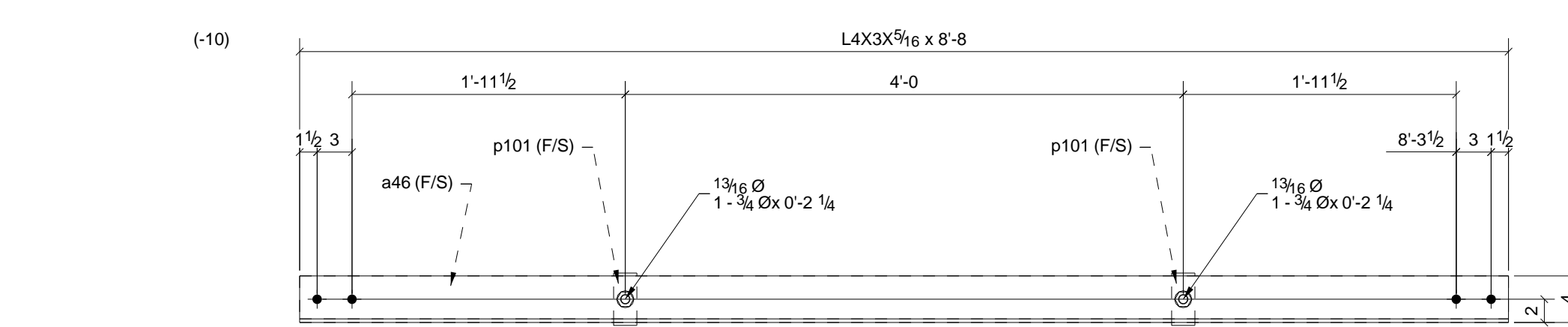
3 - DIAGONALS - 17DB2



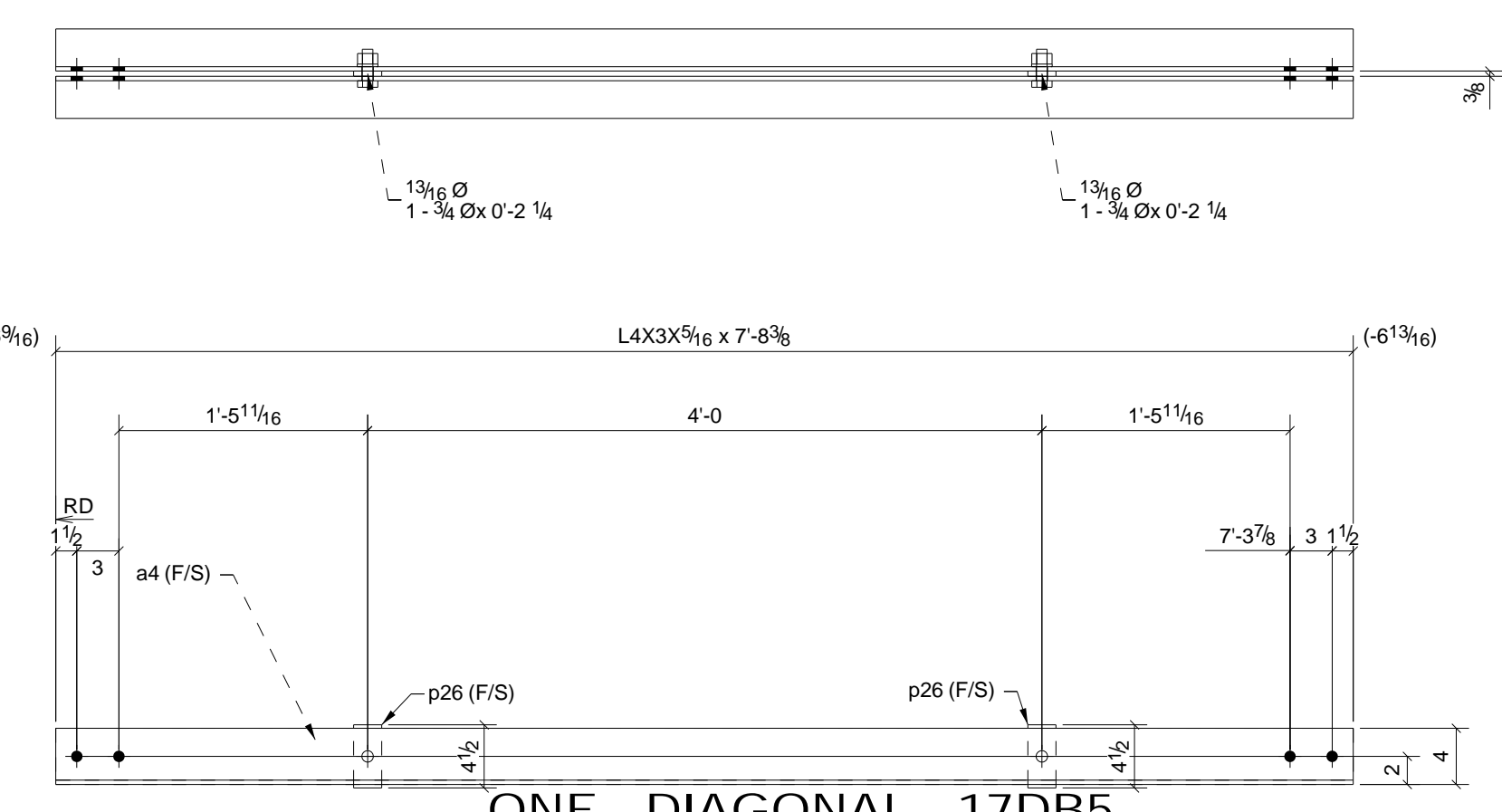
ONE - BRACE - 17D2



2 - DIAGONALS - 17DB3



ONE - DIAGONAL - 17DB4



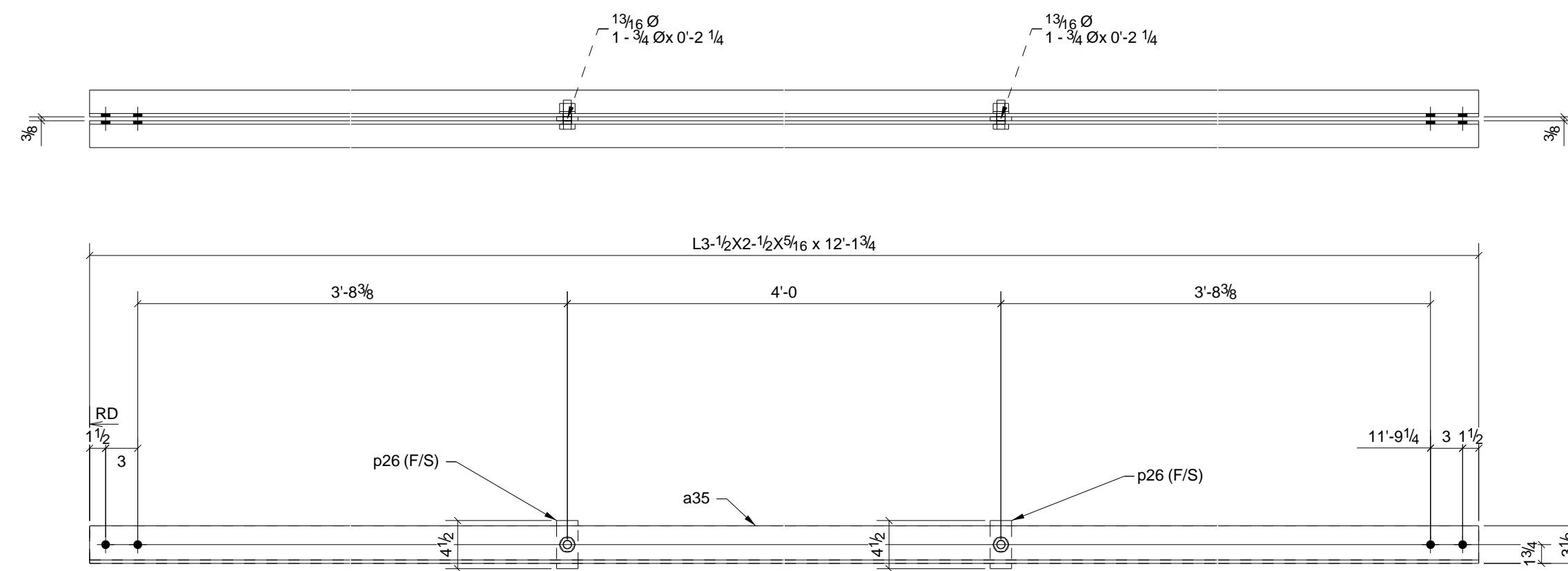
ONE - DIAGONAL - 17DB5

- 6) PROVIDE WEEP HOLES PER GALVANIZERS SPECS & REQUIREMENTS.
 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 4) 1/4" EDGE DISTANCE U.N..
 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 2) GRIND ALL ROUGH EDGES SMOOTH.
 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.
- GENERAL NOTES**

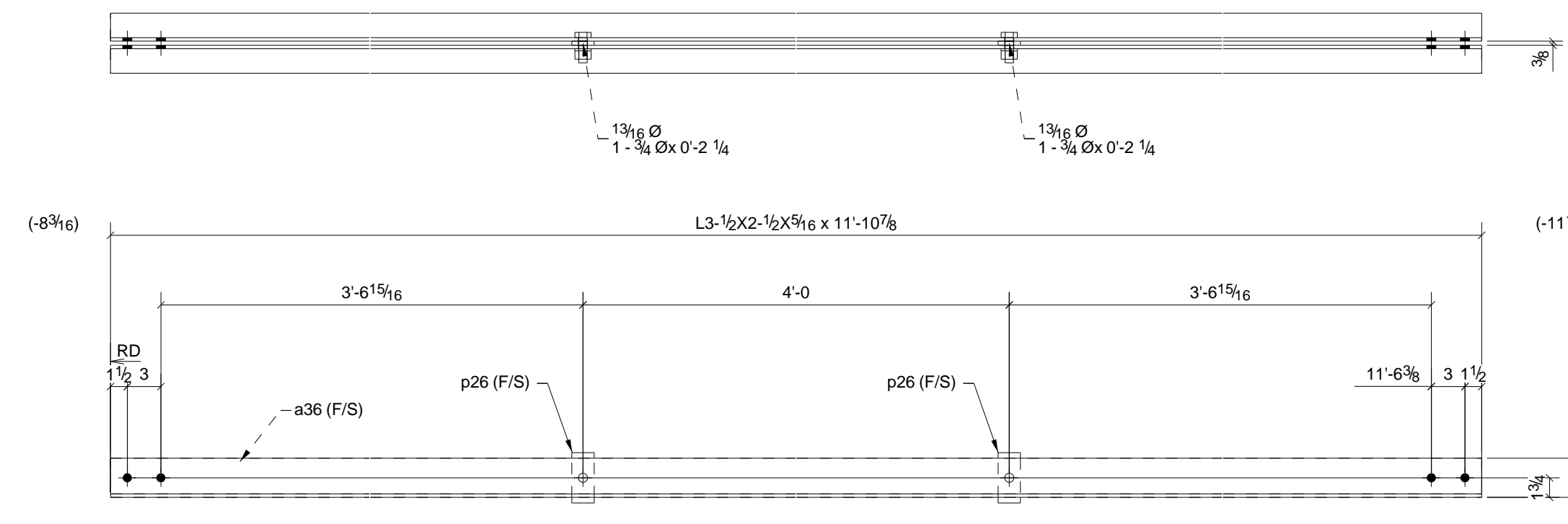
BILL OF MATERIAL						
Qty	Piece	Description	Length	Weight	Remarks	Adv
Est.	Mark			Total		Mill #
1	17D1	BRACE				
1	1	L4X3X5/16	8'-8"	62	SQ2	A36
1	a46	L4X3X5/16	8'-8"	62		A36
2	p26	FL3/8"X2"	0'-4 1/2"	2		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	1		
1	17D2	BRACE				
1	1	L4X3X5/16	8'-8"	62	SQ2	A36
1	a46	L4X3X5/16	8'-8"	62		A36
2	p101	FL3/8"X2"	0'-4 1/2"	2		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	1		
1	17DB1	DIAGONAL				
1	1	L4X3X5/16	13'-9"	98	SQ2	A36
3	17DB2	DIAGONALS				
3	3	L4X3X5/16	10'-9 3/8"	230	SQ2	A36
1	a13	L4X3X5/16	10'-9 3/8"	230		A36
2	p26	FL3/8"X2"	0'-4 1/2"	6		A36
2	2	3/4"Ø A325N BOLT	0'-2 1/4"	4		
2	17DB3	DIAGONALS				
2	2	L4X3X5/16	11'-0 7/16"	157	SQ2	A36
1	a14	L4X3X5/16	11'-0 7/16"	157		A36
2	4	p26	FL3/8"X2"	4		A36
1	17DB4	DIAGONAL				
1	1	L4X3X5/16	7'-8 3/8"	55	SQ2	A36
1	a56	L4X3X5/16	7'-8 3/8"	55		A36
2	2	p26	FL3/8"X2"	2		A36
1	17DB5	DIAGONAL				
1	1	L4X3X5/16	7'-8 3/8"	55	SQ2	A36
1	a4	L4X3X5/16	7'-8 3/8"	55		A36
2	2	p26	FL3/8"X2"	2		A36

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BY		DATE	06/22/2009
TMC	For Approval	DRAWN BY	TMAC
TMC	For Fabrication F&F	JOB No.	3-21051
		DRG No.	17

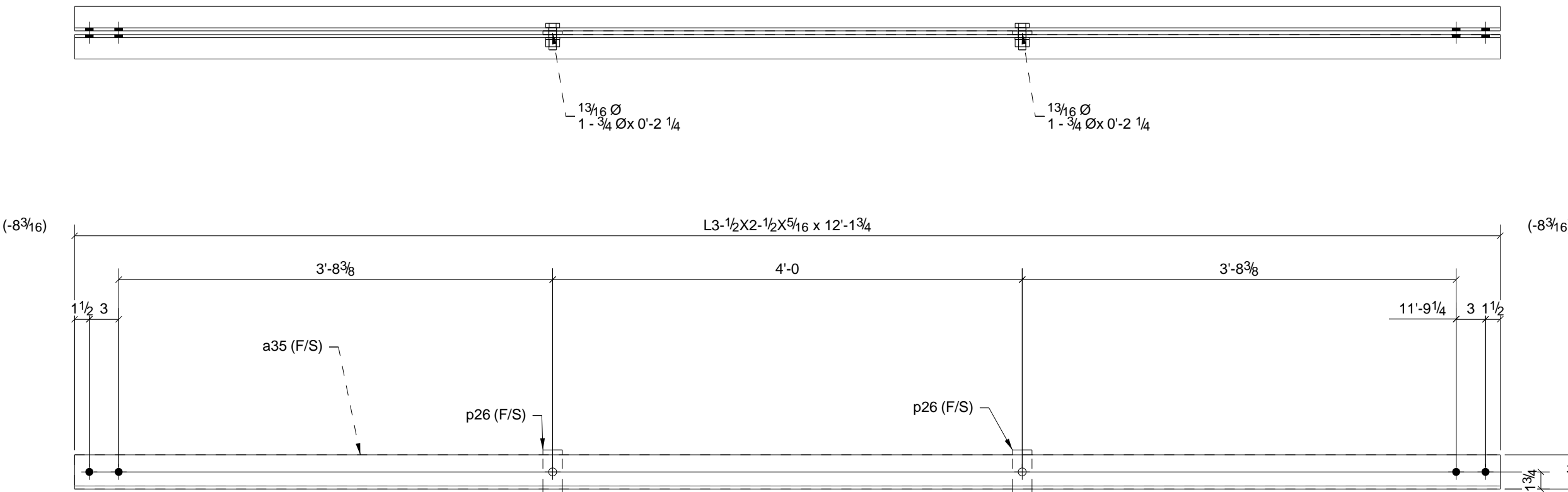
Altoona Pipe And Steel Supply Co.
 Altoona, Pa 16603-0112
 (814) 944-1631 FAX (814) 944-1635 altoonapipeandsteel.com
 BRACING DETAILS



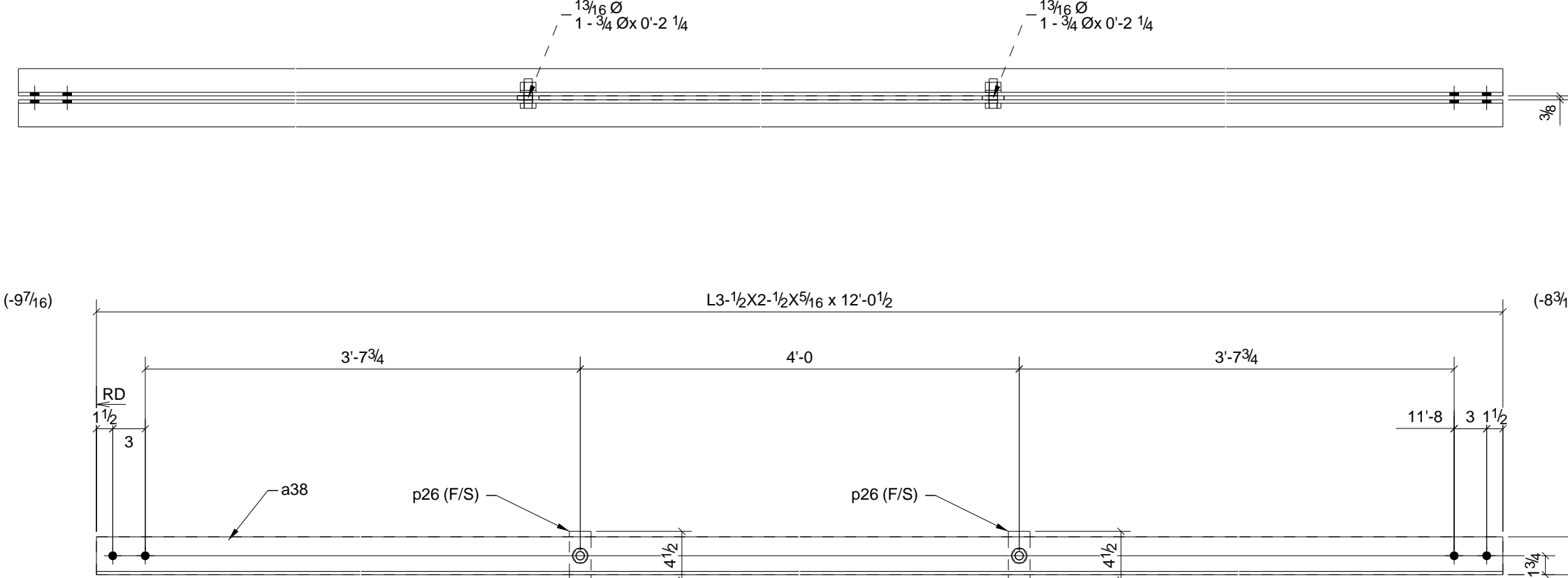
3 - DIAGONALS - 18DB1



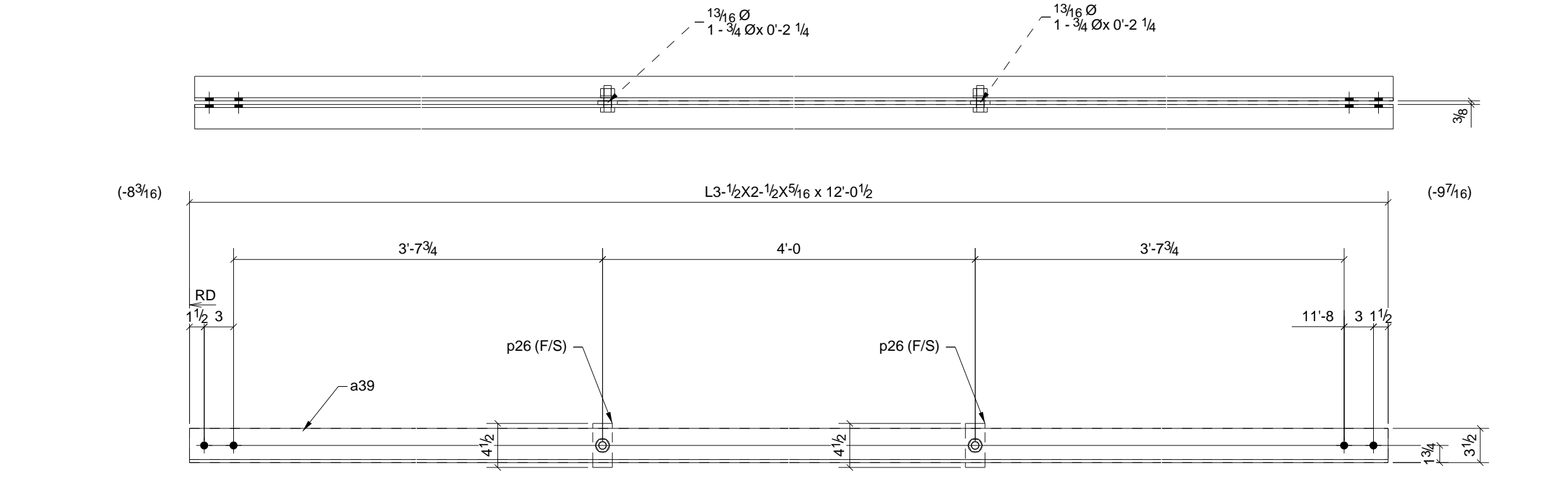
2 - DIAGONALS - 18DB4



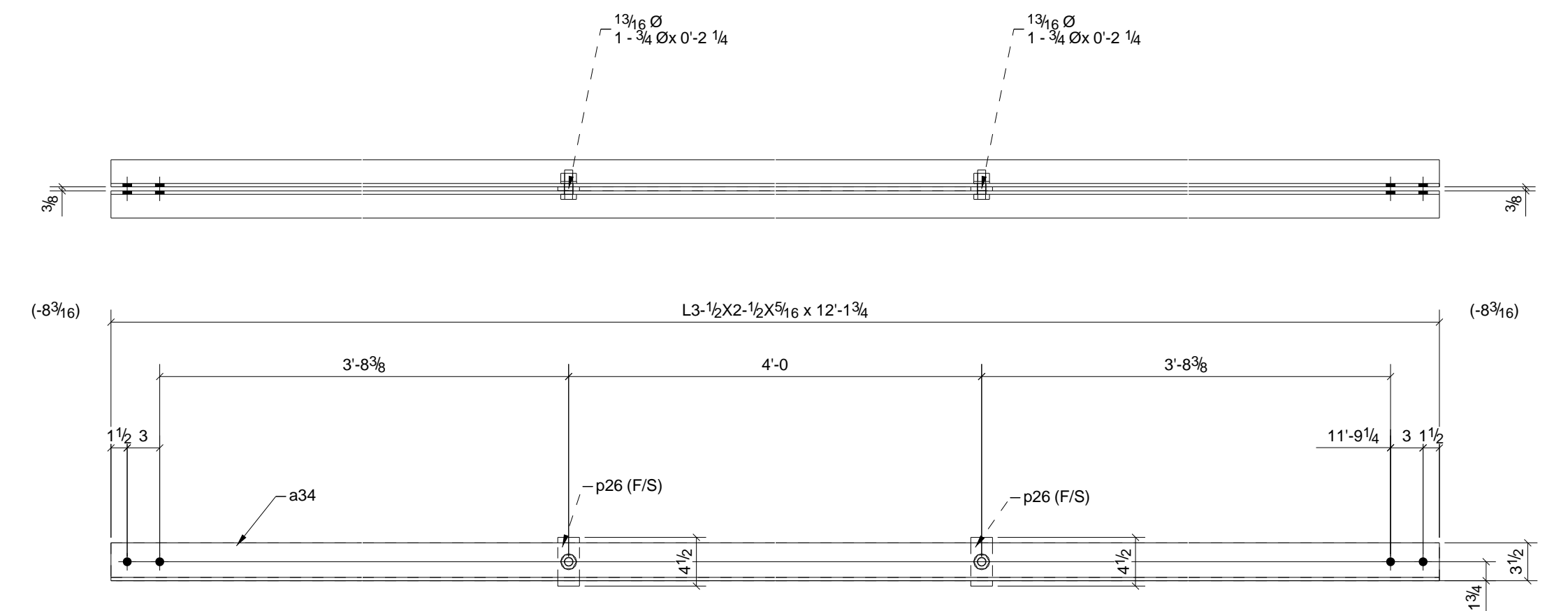
2 - DIAGONALS - 18DB2



2 - DIAGONALS - 18DB5



2 - DIAGONALS - 18DB3



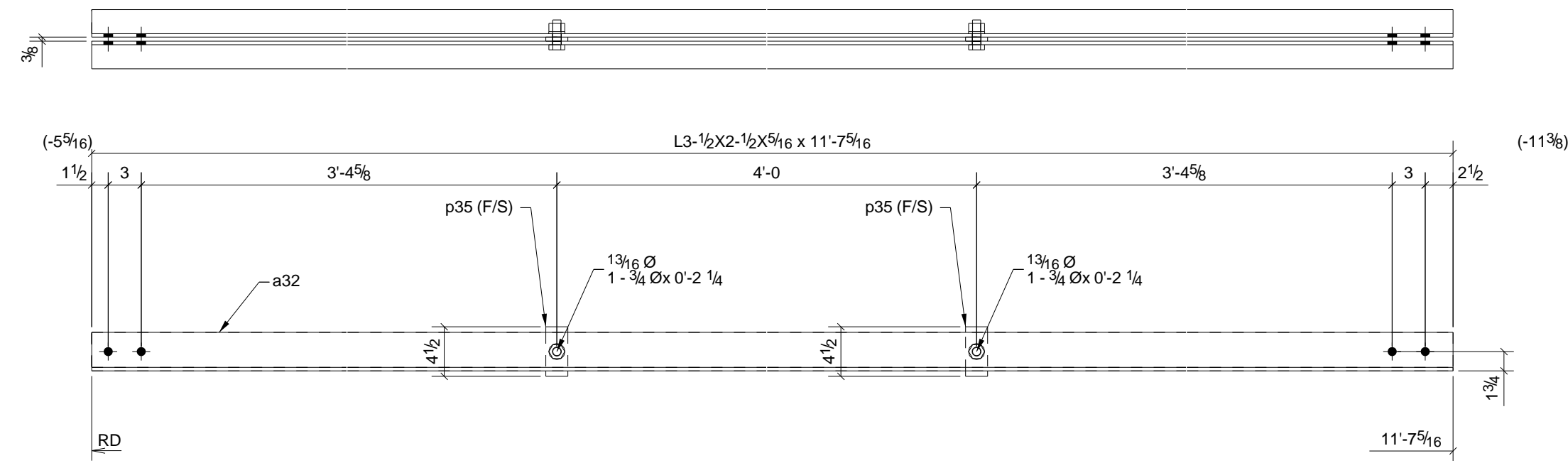
3 - DIAGONALS - 18DB6

BILL OF MATERIAL						
Qty	Qty	Piece	Description	Length	Weight	Remarks
Est.	Tot	Mark			Total	
	3		DIAGONALS			
3	3		L3-1/2X2-1/2X5/16	12'-1 3/4"	221	SQ2
1	3	a35	L3-1/2X2-1/2X5/16	12'-1 3/4"	221	
2	6	p26	FL3/8"X2"	0'-4 1/2"	6	
	2		DIAGONALS			
2	2		L3-1/2X2-1/2X5/16	12'-1 3/4"	147	SQ2
1	2	a35	L3-1/2X2-1/2X5/16	12'-1 3/4"	147	
2	4	p26	FL3/8"X2"	0'-4 1/2"	4	
	2		DIAGONALS			
2	2		L3-1/2X2-1/2X5/16	12'-0 1/2"	146	SQ2
1	2	a39	L3-1/2X2-1/2X5/16	12'-0 1/2"	146	
2	4	p26	FL3/8"X2"	0'-4 1/2"	4	
	2		DIAGONALS			
2	2		L3-1/2X2-1/2X5/16	11'-10 7/8"	144	SQ2
1	2	a36	L3-1/2X2-1/2X5/16	11'-10 7/8"	144	
2	4	p26	FL3/8"X2"	0'-4 1/2"	4	
	2		DIAGONALS			
2	2		L3-1/2X2-1/2X5/16	12'-0 1/2"	146	SQ2
1	2	a38	L3-1/2X2-1/2X5/16	12'-0 1/2"	146	
2	4	p26	FL3/8"X2"	0'-4 1/2"	4	
	3		DIAGONALS			
3	3		L3-1/2X2-1/2X5/16	12'-1 3/4"	221	SQ2
1	3	a34	L3-1/2X2-1/2X5/16	12'-1 3/4"	221	
2	6	p26	FL3/8"X2"	0'-4 1/2"	6	

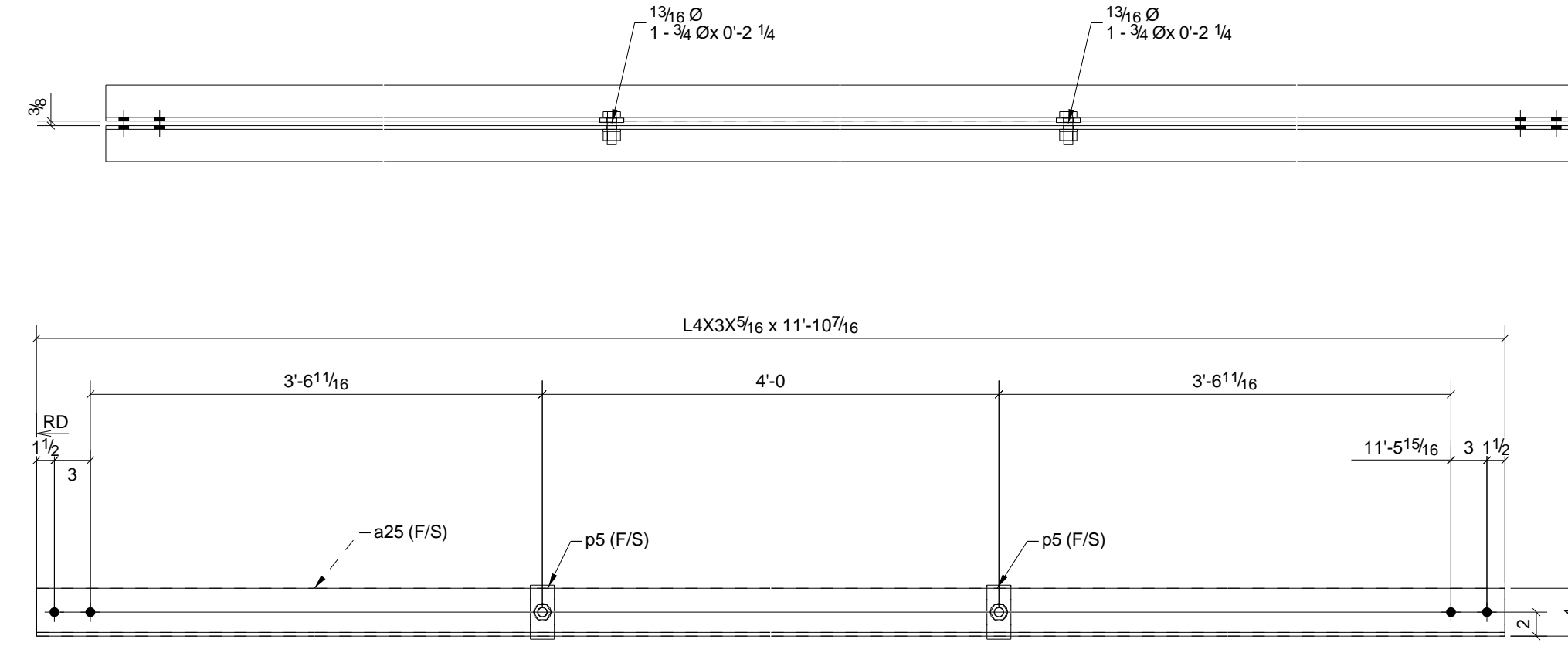
- 6) PROVIDE WEEP HOLES PER GALVANIZERS SPECS & REQUIREMENTS.
 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 4) 1/2" EDGE DISTANCE U.N.
 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 2) GRIND ALL ROUGH EDGES SMOOTH.
 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.
- GENERAL NOTES**

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
DATE 6/22/09	NO. 1	DESCRIPTION	For Approval
DATE 7/17/09	NO. 2	DESCRIPTION	For Fabrication F&F
BY TMC	BOLTS A325N	UNO	
BY TMC	PAINT PER SPEC/GC	UNO	

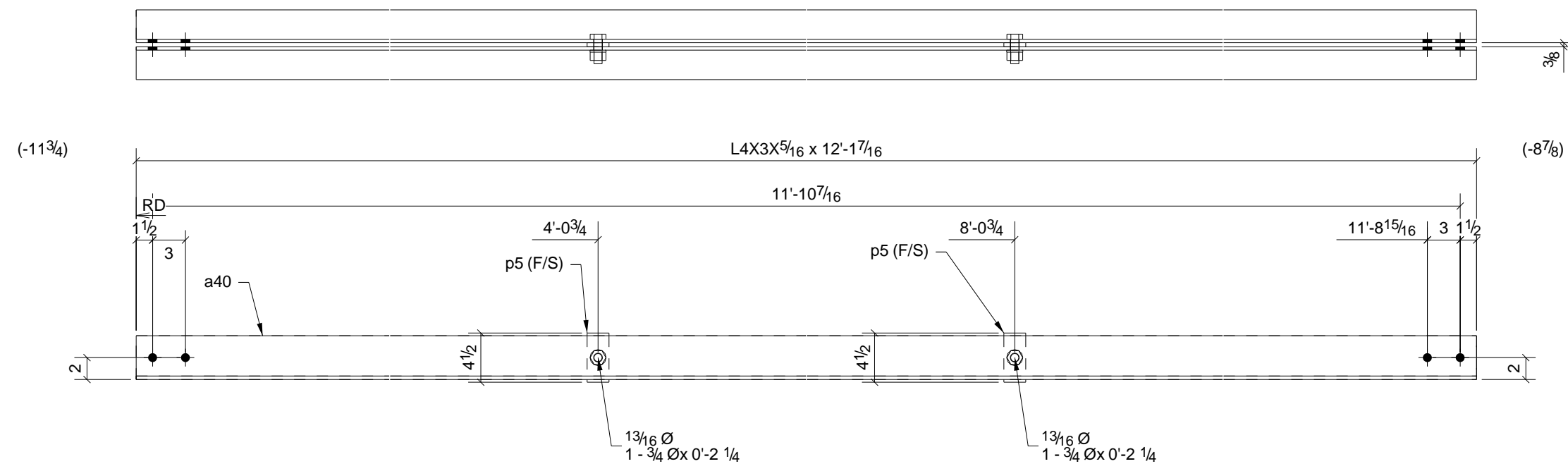
Altoona Pipe And Steel Supply Co.	
Altoona, Pa 16603-0112	
(814) 944-1631	FAX (814) 944-1635
alttoonapipeandsteel.com	
DESCRIPTION BRACING DETAILS	DATE 06/22/2009
	DRAWN BY TMAC
JOB No. 3-21051	DRG No. 18



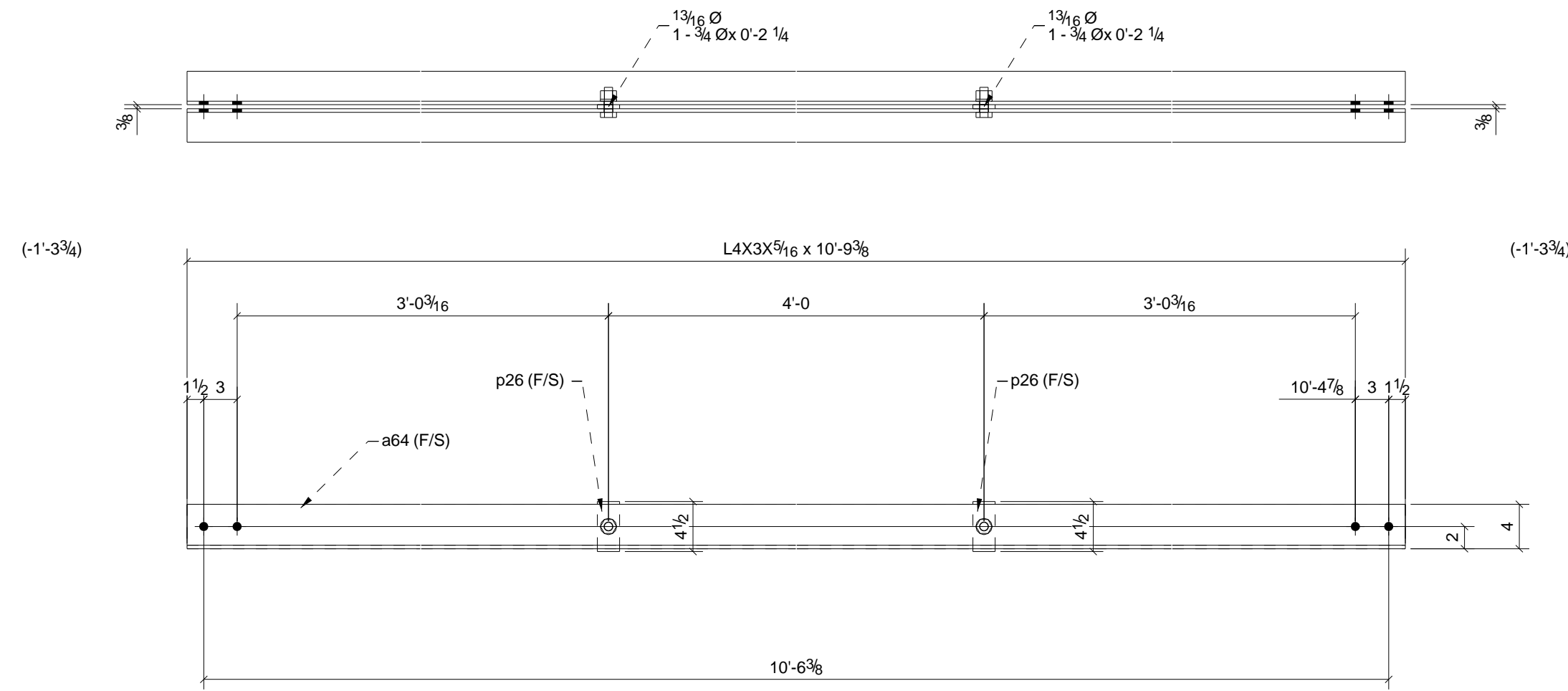
2 - DIAGONALS - 19DB3



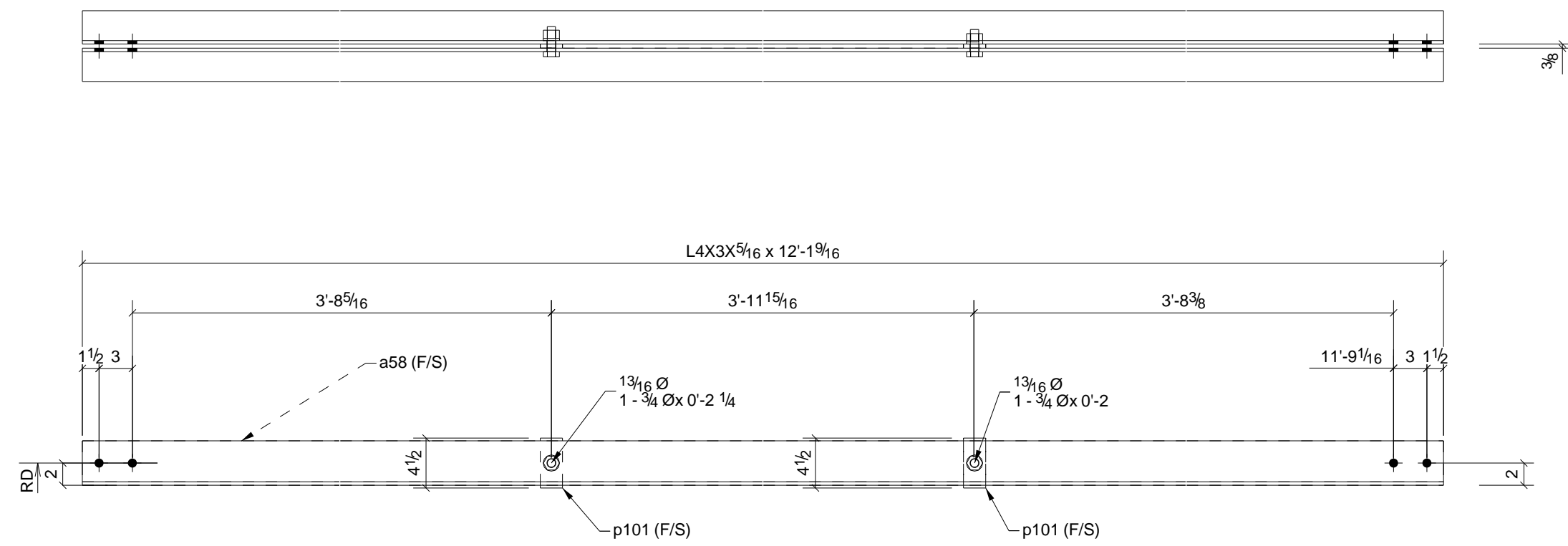
ONE - DIAGONAL - 19DB8



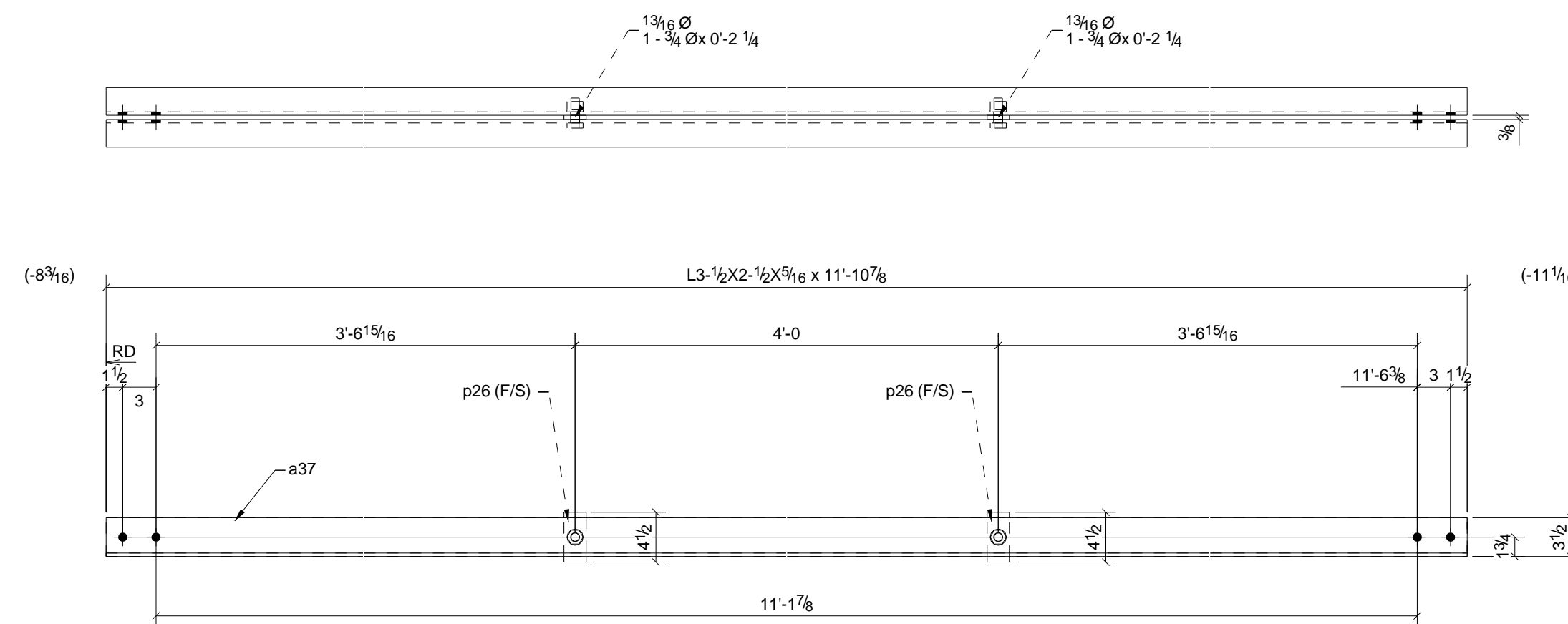
ONE - DIAGONAL - 19DB6



3 - DIAGONALS - 19DB9



ONE - DIAGONAL - 19DB7



2 - DIAGONALS - 19DB10

BILL OF MATERIAL								
Qty. Ea.	Qty. Tot.	Piece Mark	Description	Length	Weight Total	Remarks	Adv. Mill #	Steel Grade
2	2	19DB3	DIAGONALS					
2	2	L3-1/2X2-1/2X5/16		11'-7 5/16"	141	SQ2		A36
1	2	a32	L3-1/2X2-1/2X5/16	11'-7 5/16"	141			A36
2	4	p35	FL3/8"X2"	0'-4 1/2"	4			A36
2	4		3/4"Ø A325N BOLT	0'-2 1/4"	2			
1	1	19DB6	DIAGONAL					
1	1	L4X3X5/16		12'-1 7/16"	86	SQ2		A36
1	1	a40	L4X3X5/16	12'-1 7/16"	86			A36
2	2	p5	FL3/8"X2"	0'-4 1/2"	2			A36
2	2		3/4"Ø A325N BOLT	0'-2 1/4"	1			
1	1	19DB7	DIAGONAL					
1	1	L4X3X5/16		12'-1 9/16"	86	SQ2		A36
1	1	a58	L4X3X5/16	12'-1 9/16"	86			A992
2	2	p101	FL3/8"X2"	0'-4 1/2"	2			A36
1	1		3/4"Ø A325N BOLT	0'-2"	1			
1	1		3/4"Ø A325N BOLT	0'-2 1/4"	1			
1	1	19DB8	DIAGONAL					
1	1	L4X3X5/16		11'-10 7/16"	84	SQ2		A36
1	1	a25	L4X3X5/16	11'-10 7/16"	84			A36
2	2	p5	FL3/8"X2"	0'-4 1/2"	2			A36
2	2		3/4"Ø A325N BOLT	0'-2 1/4"	1			
3	3	19DB9	DIAGONALS					
3	3	L4X3X5/16		10'-9 3/8"	230	SQ2		A36
1	3	a64	L4X3X5/16	10'-9 3/8"	230			A36
2	6	p26	FL3/8"X2"	0'-4 1/2"	6			A36
2	2	19DB10	DIAGONALS					
2	2	L3-1/2X2-1/2X5/16		11'-10 7/8"	144	SQ2		A36
1	2	a37	L3-1/2X2-1/2X5/16	11'-10 7/8"	144			A36
2	4	p26	FL3/8"X2"	0'-4 1/2"	4			A36

- 5) ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
- 4) 1/4" EDGE DISTANCE U.N..
- 3) FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
- 2) GRIND ALL ROUGH EDGES SMOOTH.
- 1) ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

GENERAL NOTES

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company

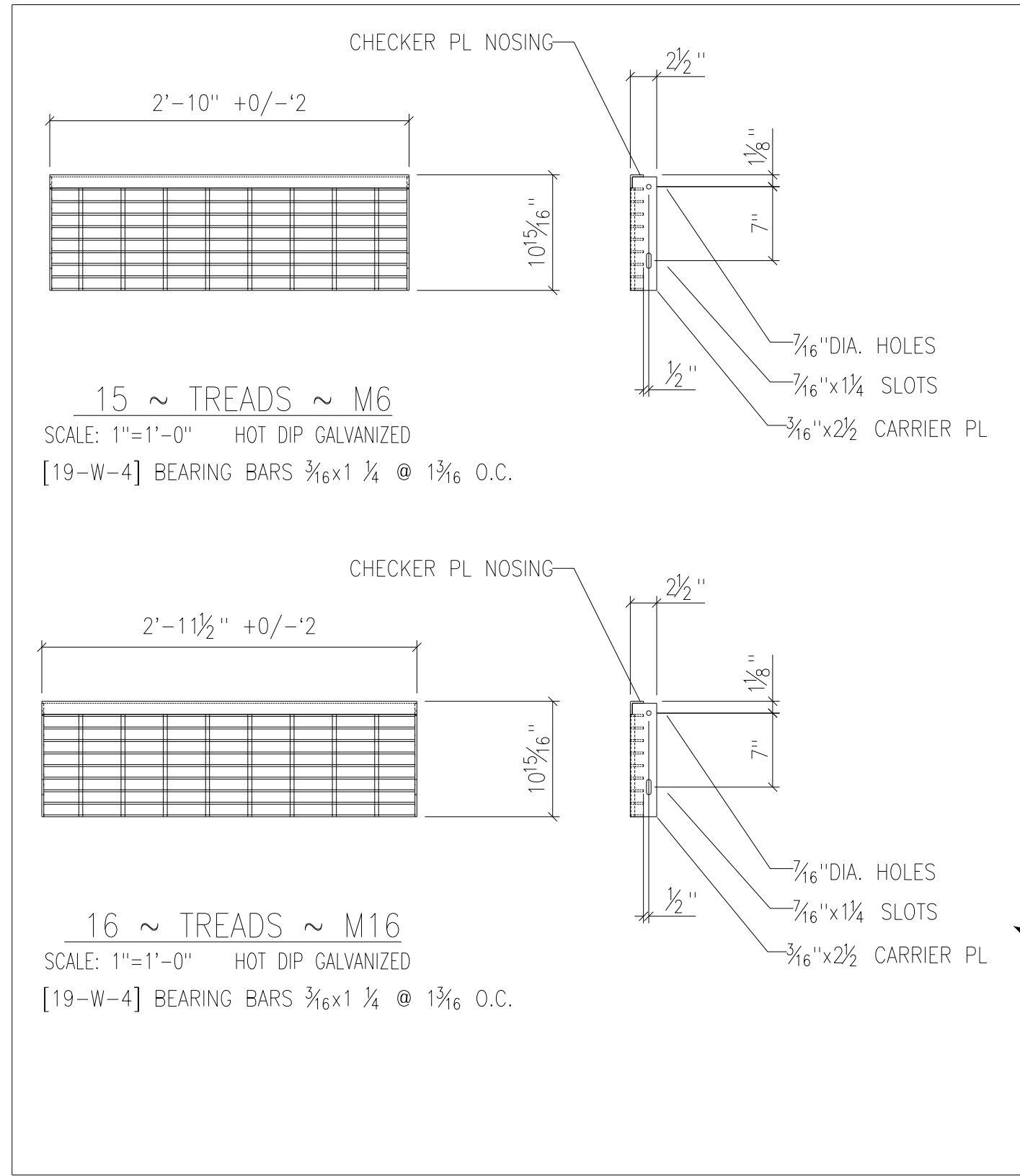
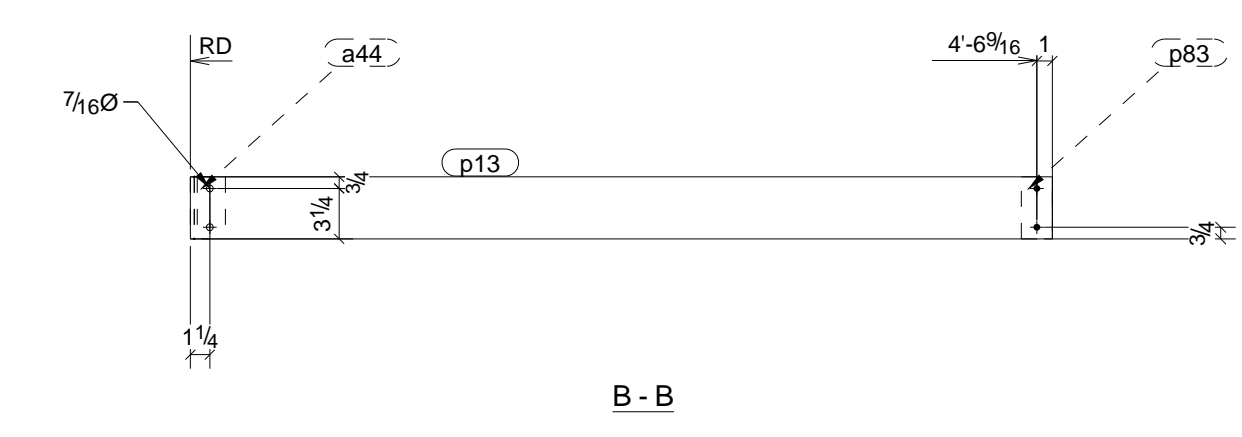
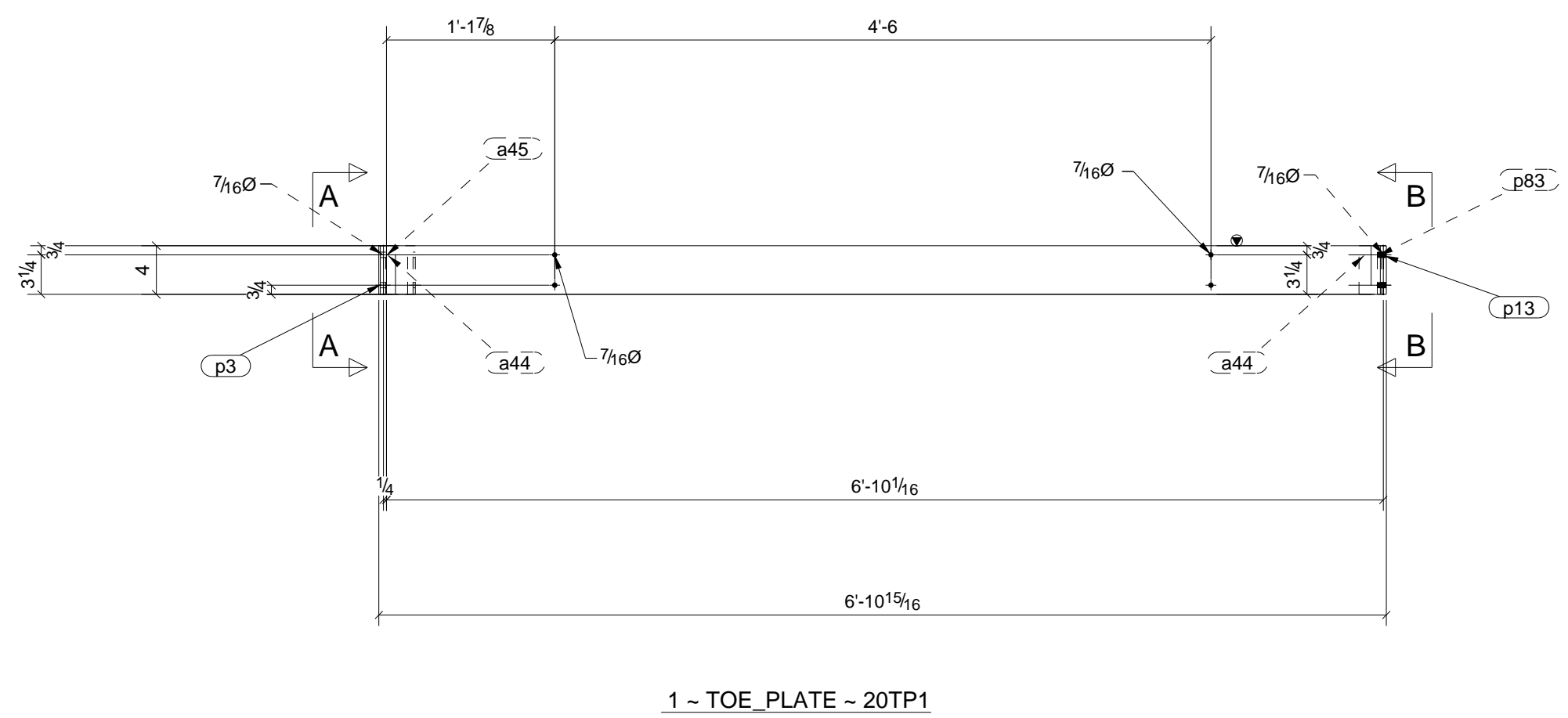
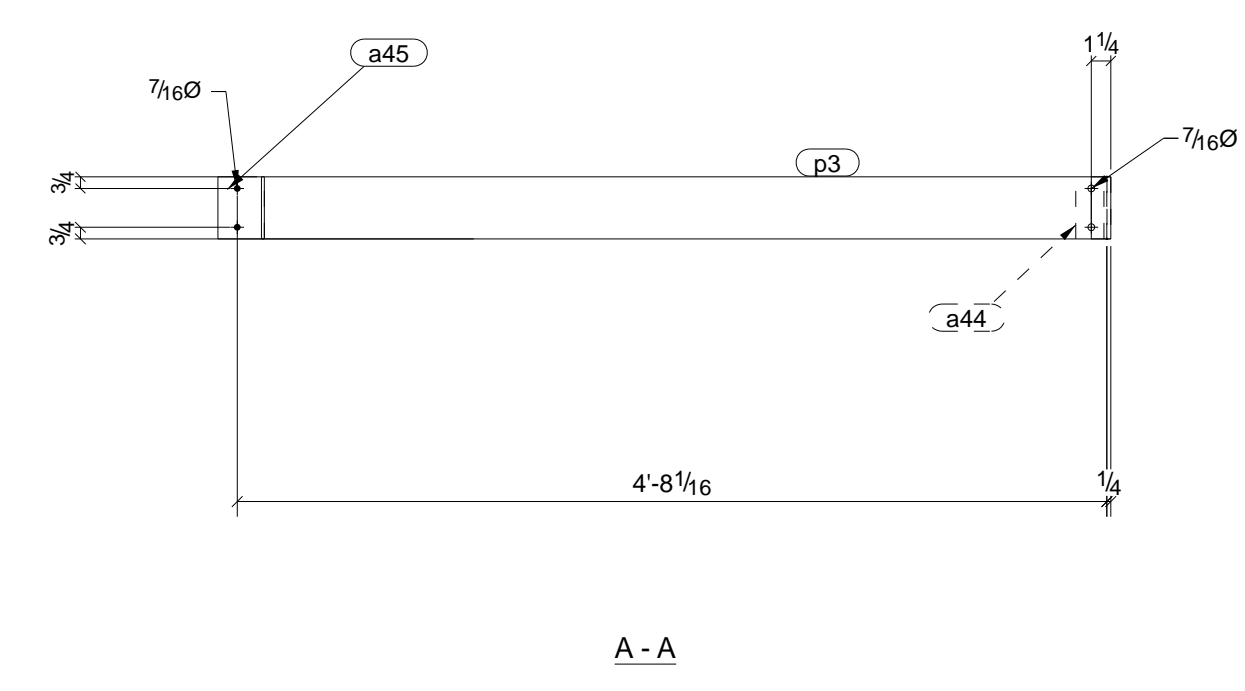
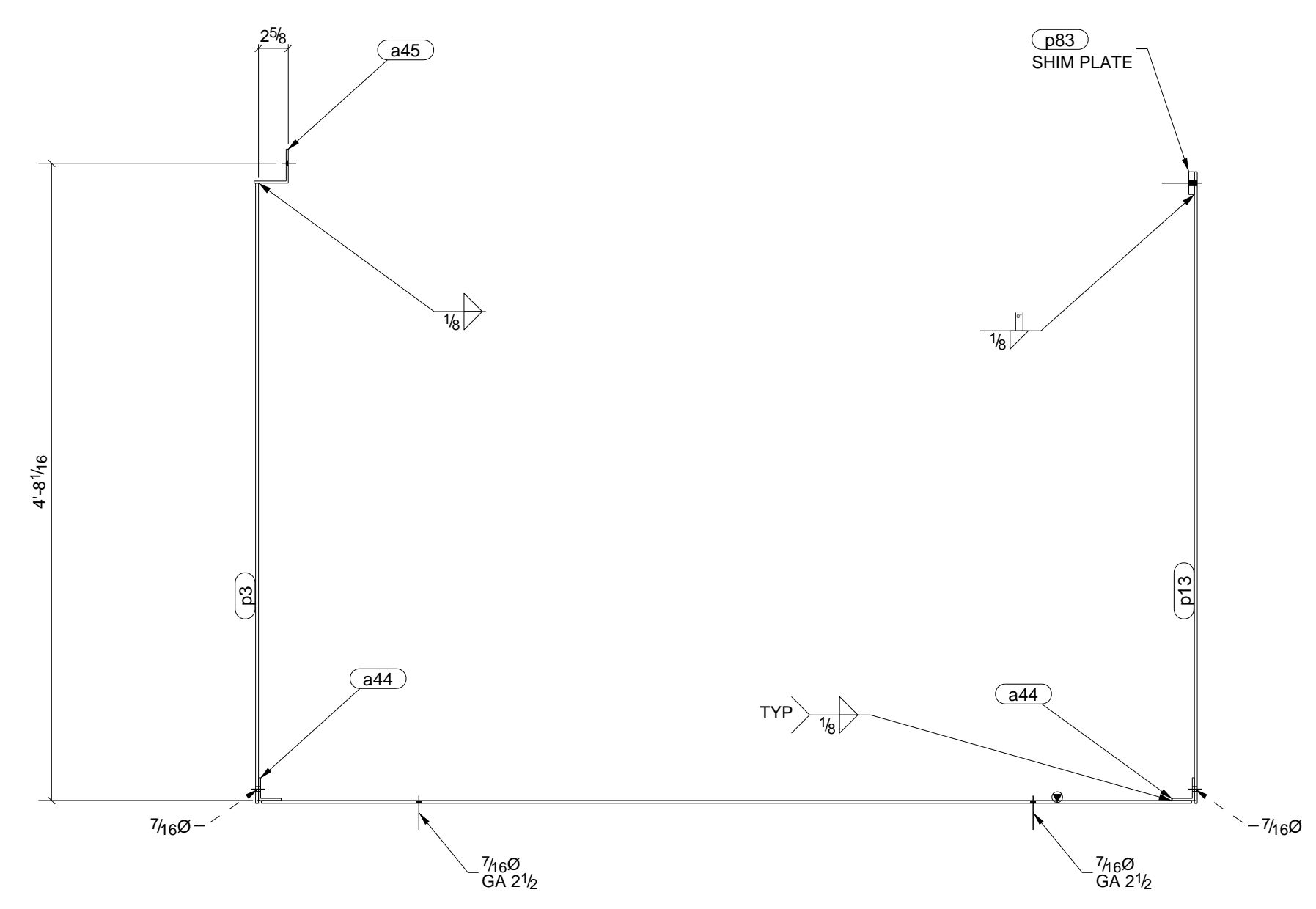
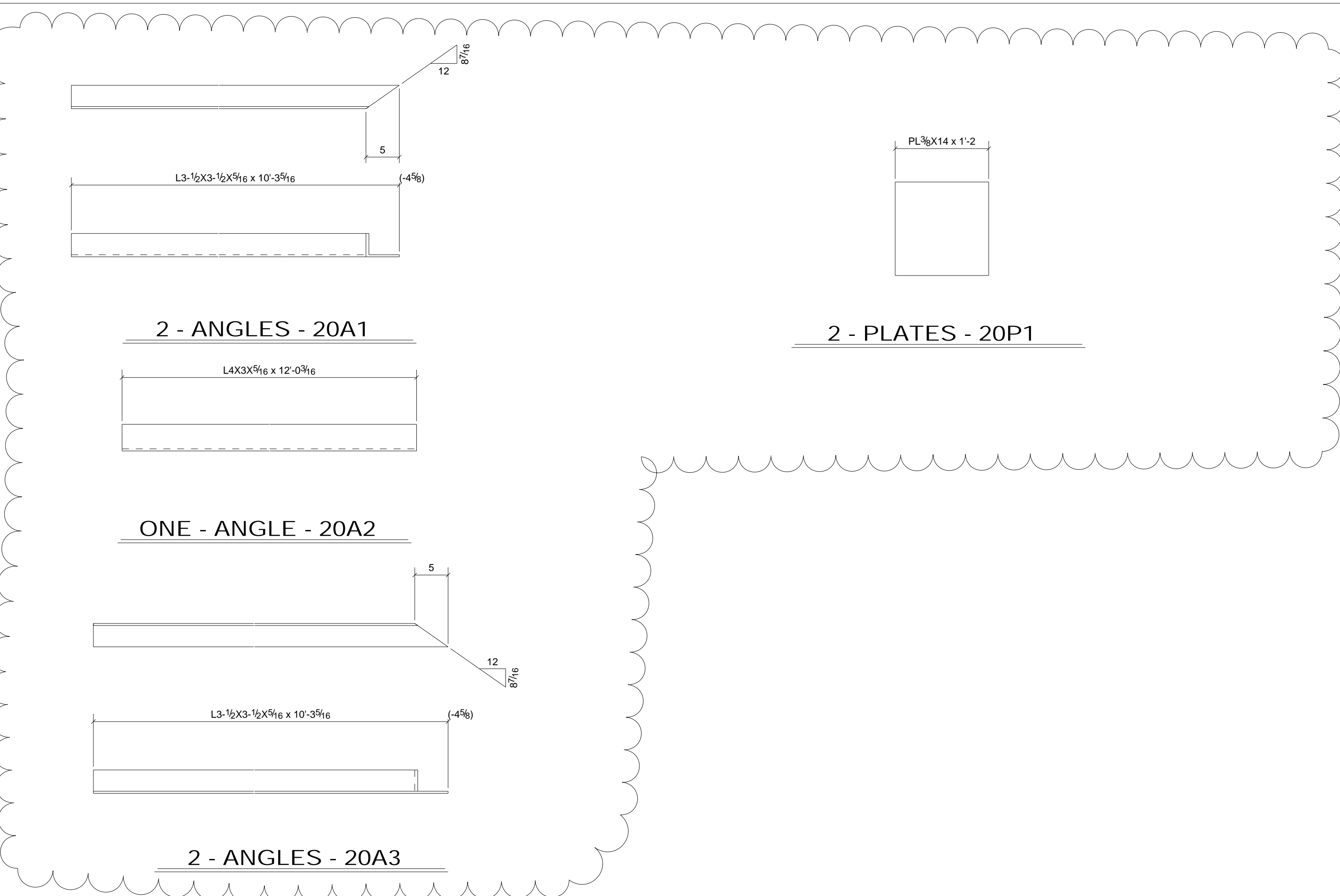
Altoona Pipe And Steel Supply Co.	
Altoona, Pa 16603-0112	
(814) 944-1631	FAX (814) 944-1635
alttoonapipeandsteel.com	
DATE 06/22/2009	JOB No. 3-21051
DRAWN BY TMAC	DRG No. 19

DATE	NO.	DESCRIPTION	BY
6/22/09	△	For Approval	TMC
7/17/09	△	For Fabrication F&F	TMC

BILL OF MATERIAL

Qty	Piece	Description	Length	Weight	Remarks	Adv	Steel
Est.	Mark			Total		Mat #	Grade
2	20A1	ANGLES					
2	2	L3-1/2X3-1/2X5/16	10'-3 5/16"	146	SQ-1BEV-1		A36
1	20A2	ANGLE					
1	1	L4X3X5/16	12'-0 3/16"	85	SQ2		A36
2	20A3	ANGLES					
2	2	L3-1/2X3-1/2X5/16	10'-3 5/16"	146	SQ-1BEV-1		A36
2	20P1	PLATES					
2	2	PL3/8"X14"	1'-2"	42	SQ2		A36
1	20TP1	TOE_PLATE					
1	1	FL1/4"X4"	6'-9 13/16"	23	SQ2		A36
2	a44	L2X2X3/16	0'-4"	2			A36
1	a45	L3X3X3/16	0'-4"	1			A36
1	p3	FL1/4"X4"	4'-6 9/16"	15			A36
1	p13	FL1/4"X4"	4'-7 9/16"	16			A36
1	p83	FL1/2"X2"	0'-4"	1			A36
4	4	3/8"Ø A307 BOLT	0'-1 1/4"	0			

PRIME PAINT ONLY - DO NOT GALVANIZE



BUY OUT ITEMS

- GENERAL NOTES**
- ALL STEEL THIS DRAWING IS HOT DIP GALVANIZED U.N.O.
 - 1/2" EDGE DISTANCE U.N.
 - FIELD VERIFY ALL DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION.
 - GRIND ALL ROUGH EDGES SMOOTH.
 - ALL WELDS 3/16" FILLETS OR BUTT WELDS, UNLESS NOTED.

STEEL ASTM A992	UNO	PROJECT NAME	Norfolk Southern Project
ELECTRODES E70XX LH	UNO	LOCATION	Norfolk Southern - Altoona, Pennsylvania
WELDS 1/4" Fillet / B	UNO	CONTRACTOR	Leonard S. Fiore
OPEN HOLES 13/16	UNO	ARCHITECT	H F Lenz Company
BOLTS A325N	UNO	DATE	06/22/2009
PAINT PER SPEC/GC	UNO	DRAWN BY	TMAC
		JOB No.	3-21051
		DRG No.	20

Altoona Pipe And Steel Supply Co.
Altoona, Pa 16603-0112
(814) 944-1631 FAX (814) 944-1635 altoonapipendsteel.com

DESCRIPTION: TOEPLATE, STAIR & BAGHOUSE MISC. DETAILS