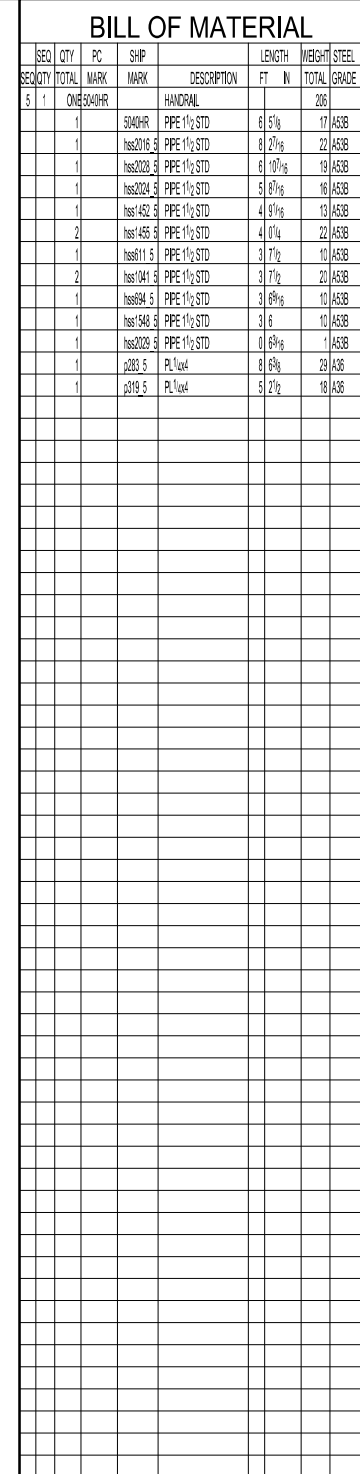
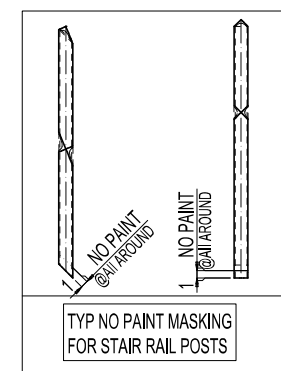


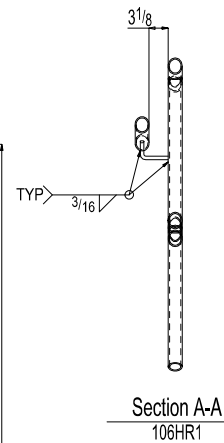
SHOP NOTE:
CHANNEL TOE DIRECTION FAR SIDE

JOB		
MADE BY	CHECKED BY	DATE
ARCH		
CONT		
		DWG. NO. 102

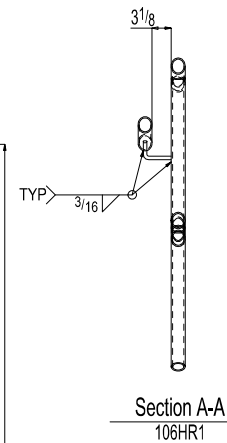
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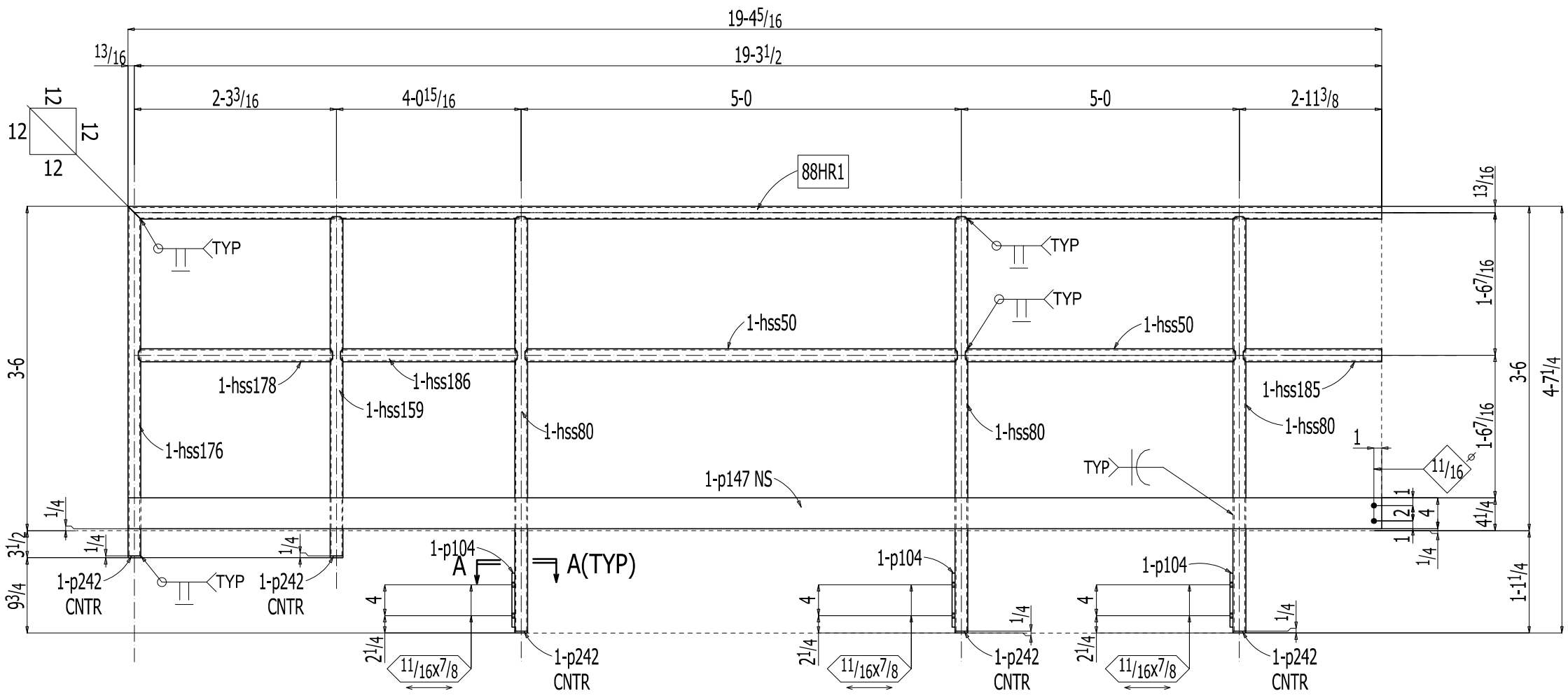
JOB		
MADE BY	CHECKED BY	
ARCH		
CONT		
		DWG. NO. 104



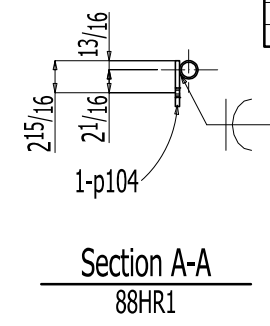


SAMPLE DRAWINGS

[illegible]



ONE GUARDRAIL 88HR1



BILL OF MATERIAL									
LINE #	QTY	PC	DESCRIPTION	LENGTH	REMARKS	STEEL GRADE	WEIGHT		
ONE 88HR1 GUARDRAIL									177
1	88HR1		PIPE 1 1/4 STD	19	4 5/16	A53 B	44		
2	hss50		PIPE 1 1/4 STD	4	11	A53 B	22		
3	hss80		PIPE 1 1/4 STD	4	5 11/16	A53 B	30		
1	hss186		PIPE 1 1/4 STD	3	11 5/16	A53 B	9		
1	hss204		PIPE 1 1/4 STD	3	9 1/4	A53 B	9		
1	hss205		PIPE 1 1/4 STD	3	7 15/16	A53 B	8		
1	hss185		PIPE 1 1/4 STD	2	10 5/16	A53 B	7		
1	hss178		PIPE 1 1/4 STD	2	2 3/16	A53 B	5		
3	p104		PL 3/8x4 3/16	0	7	A36	9		
5	p242		PL 1/2x1 11/16			A36	1		
1	p147		PL 1/8x4	19	4 5/16	A36	33		
FIELD BOLTS									
6			5/8 Dia A325	0	1 3/4	+1HD WASH			
2			5/8 Dia A325	0	1 1/2	+1HD WASH			

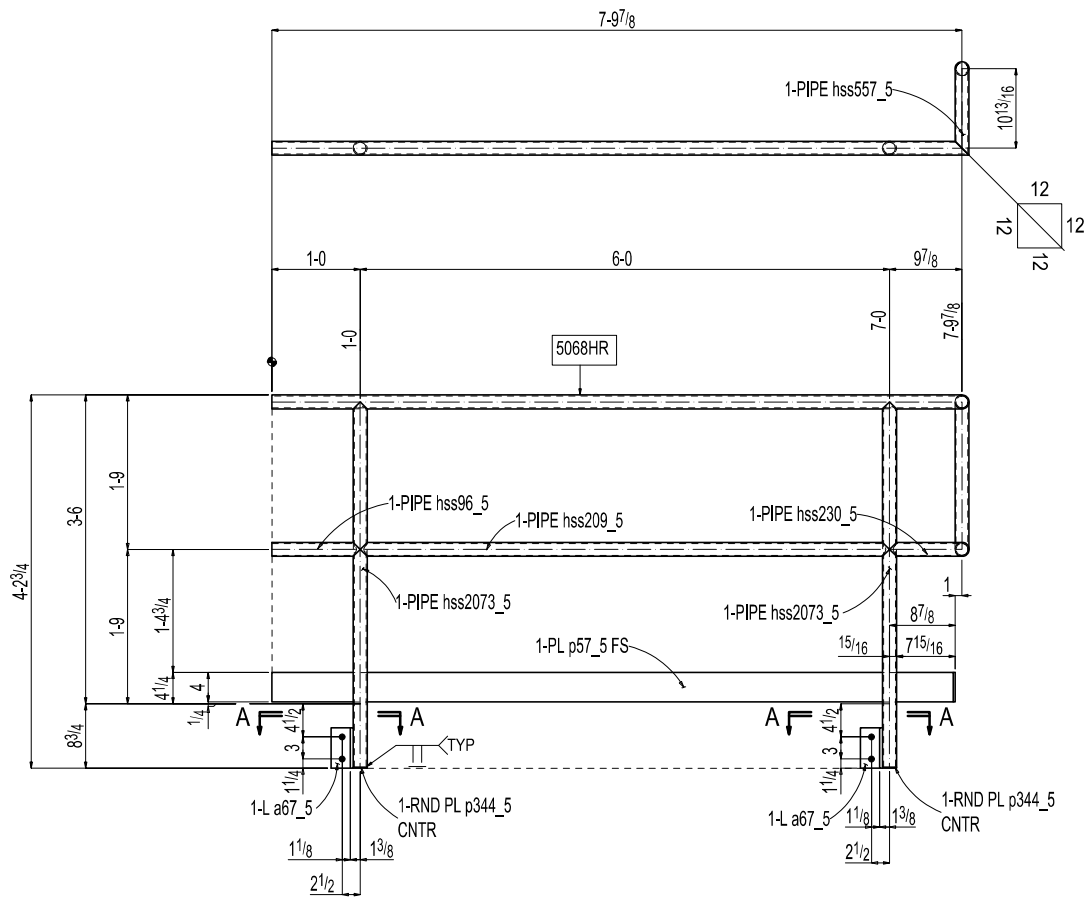
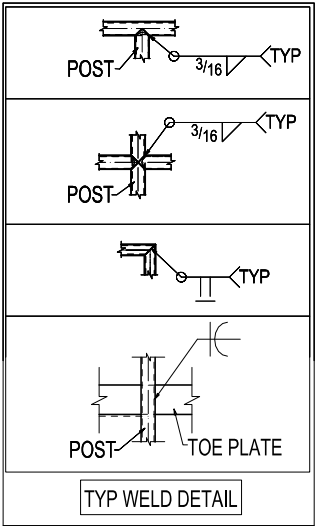
Total weight : 177

REV	DATE	DESCRIPTION

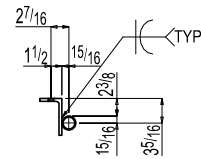
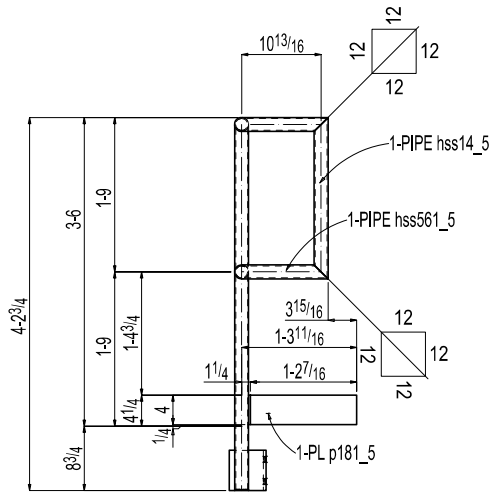


SAMPLE DRAWINGS

SHOP NOTES		PROJECT: -----			
ELECTRODE: E70XX UNO		CUSTOMER: -----			
CLEANING: SSPC- SP3		DETAIL: GUARDRAIL DETAIL			
PAINT: ONE SHOP COAT OF RED OXIDE PAINT		DRAWN: YSP DATE: 01-17-2025	JOB NO: -----	SHEET: 88	REV. A
E DWG. REF. :		CHECKED: DSP DATE: 01-17-2025	----		



ONE HANDRAIL 5068HR



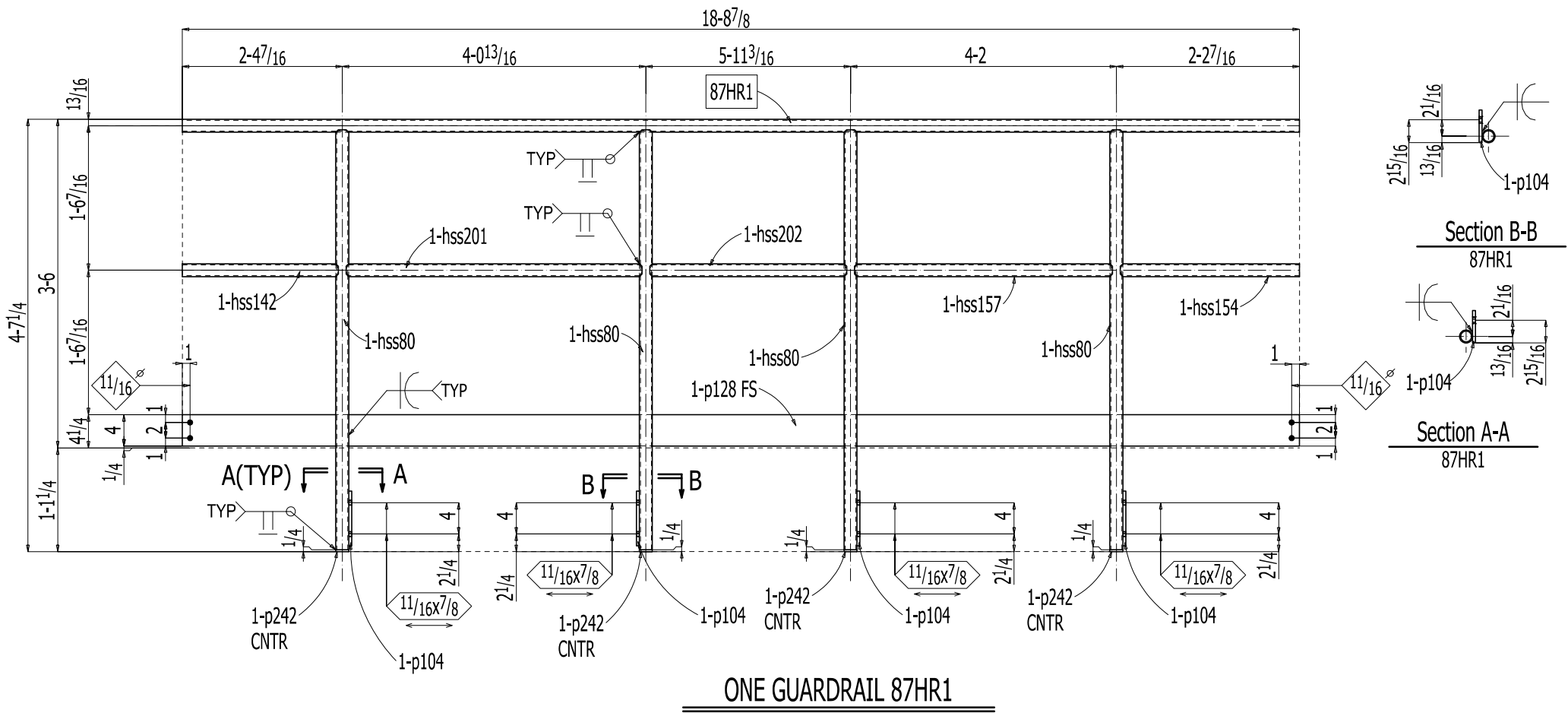
Section A-A
5068HR

BILL OF MATERIAL

SEQ	QTY	PC	SHP	DESCRIPTION	LENGTH	WEIGHT	STEEL
5	1	ONE 5068HR		HANDRAIL	FT	IN	TOTAL GRADE
	1		5068HR	PPE 1 1/2 STD	7	10 13/16	21 A50B
	1		hss209-5	PPE 1 1/2 STD	6	0	16 A50B
	2		hss2073-5	PPE 1 1/2 STD	4	1 11/16	23 A50B
	1		hss14-5	PPE 1 1/2 STD	1	8 9/16	5 A50B
	1		hss551-5	PPE 1 1/2 STD	1	0 11/16	3 A50B
	1		hss557-5	PPE 1 1/2 STD	1	0 11/16	3 A50B
	1		hss616-5	PPE 1 1/2 STD	1	0	3 A50B
	1		hss230-5	PPE 1 1/2 STD	0	10 13/16	2 A50B
	2		a67-5	L5x3x3/8	0	5 1/2	9 A36
	1		p67-5	PL 1/2x4	7	8 11/16	26 A36
	1		p181-5	PL 1/2x4	1	2 7/8	4 A36
	2		p344-5	PL 1/2x7 1/2			0 A36
				FIELD BOLTS			
	4			TC 3/4 Dia A325N	0	1 3/4	

BILL OF MATERIAL						
LINE #	QTY	PC	DESCRIPTION	LENGTH	REMARKS	STEEL GRADE
ONE 87HR1			GUARDRAIL			170
1 87HR1			PIPE 1 1/4 STD	18 87/8		A53 B
1 hss202			PIPE 1 1/4 STD	5 103/16		A53 B
4 hss80			PIPE 1 1/4 STD	4 511/16		A53 B
1 hss157			PIPE 1 1/4 STD	4 1		A53 B
1 hss201			PIPE 1 1/4 STD	3 113/16		A53 B
1 hss142			PIPE 1 1/4 STD	2 315/16		A53 B
1 hss154			PIPE 1 1/4 STD	2 115/16		A53 B
4 p104			PL 3/8x43/16	0 7		A36
4 p242			PL 1/4x111/16			A36
1 p128			PL 1/8x4	18 87/8		A36
			FIELD BOLTS			
6			5/8 Dia A325	0 13/4	+1HD WASH	
2			5/8 Dia A325	0 13/4	+2HD WASH	

Total weight : 170



SAMPLE DRAWINGS

SHOP NOTES		PROJECT: -----			
ELECTRODE: E70XX UNO		CUSTOMER: -----			
CLEANING: SSPC- SP3		DETAIL: GUARDRAIL DETAIL			
PAINT: ONE SHOP COAT OF RED OXIDE PAINT		DRAWN: YSP DATE: 01-17-2025	JOB NO: -----	SHEET: 87	REV. A
E DWG. REF. :		CHECKED: DSP DATE: 01-17-2025			



POST

3/16" TYP

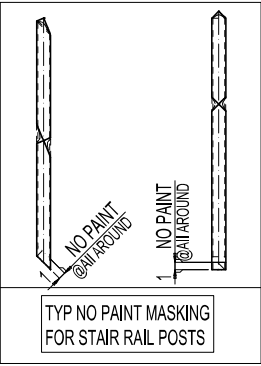
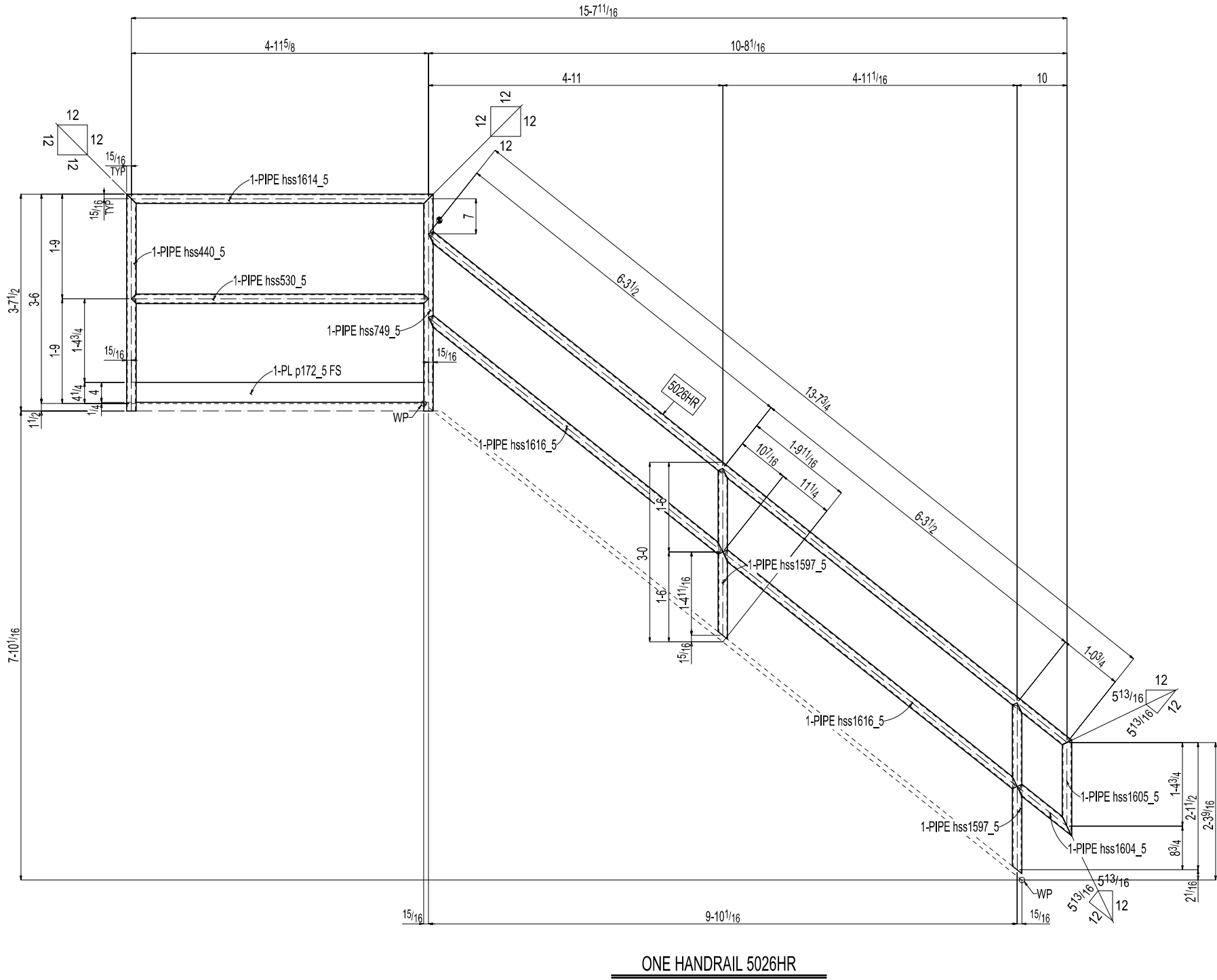
POST

3/16" TYP

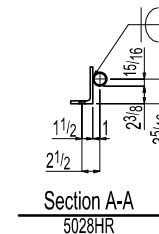
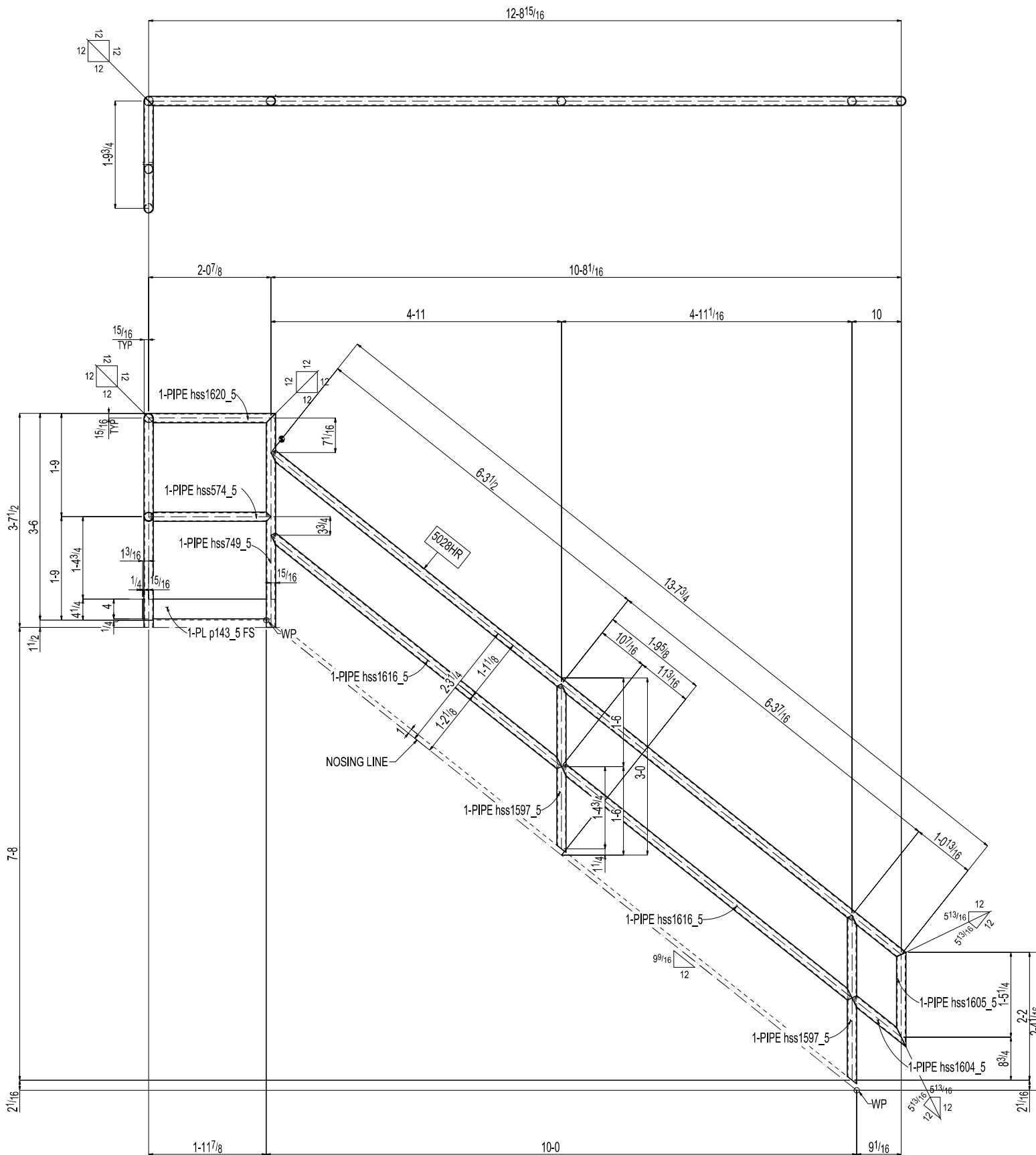
POST

TOE PLATE

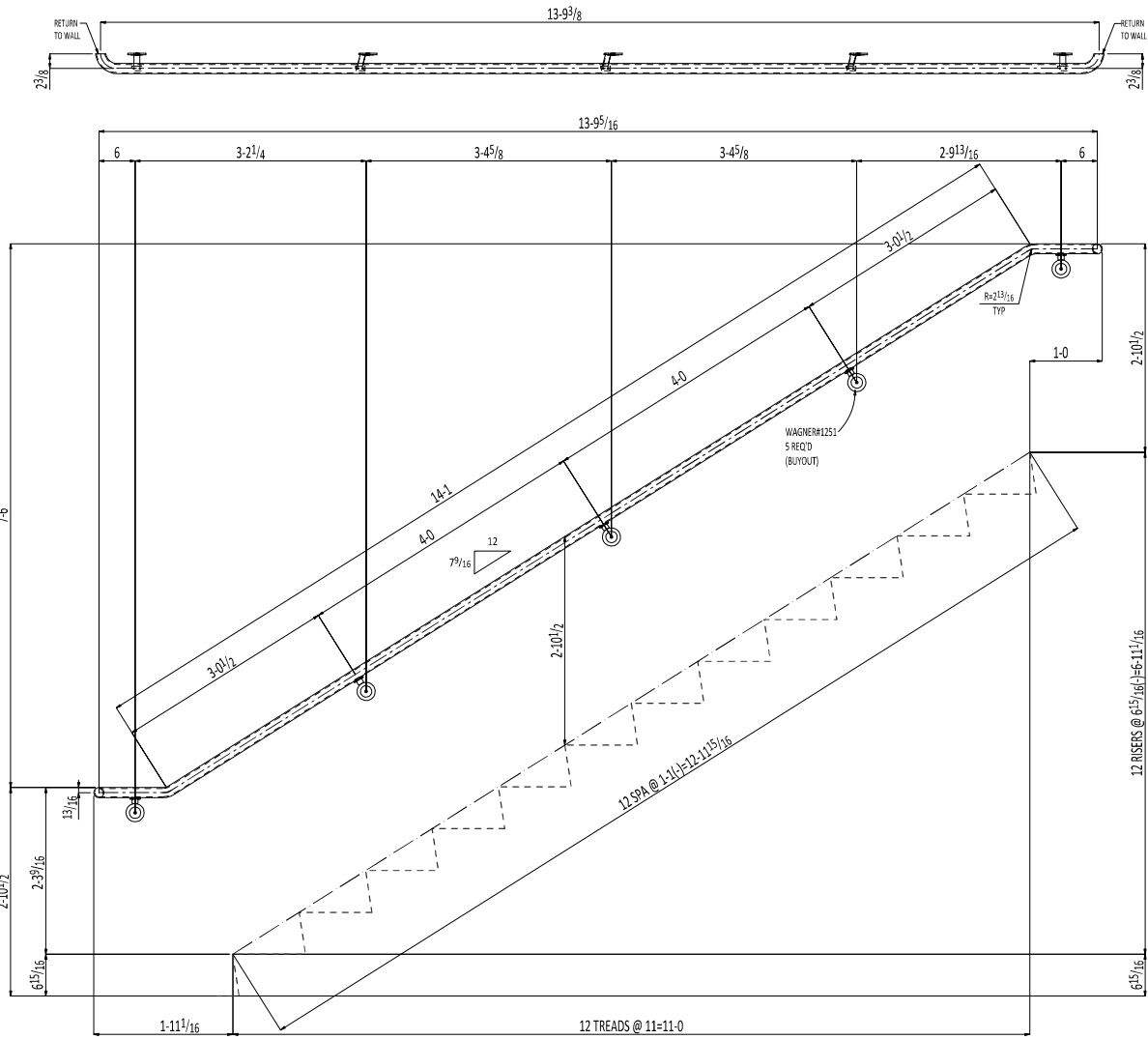
TYP WELD DETAIL



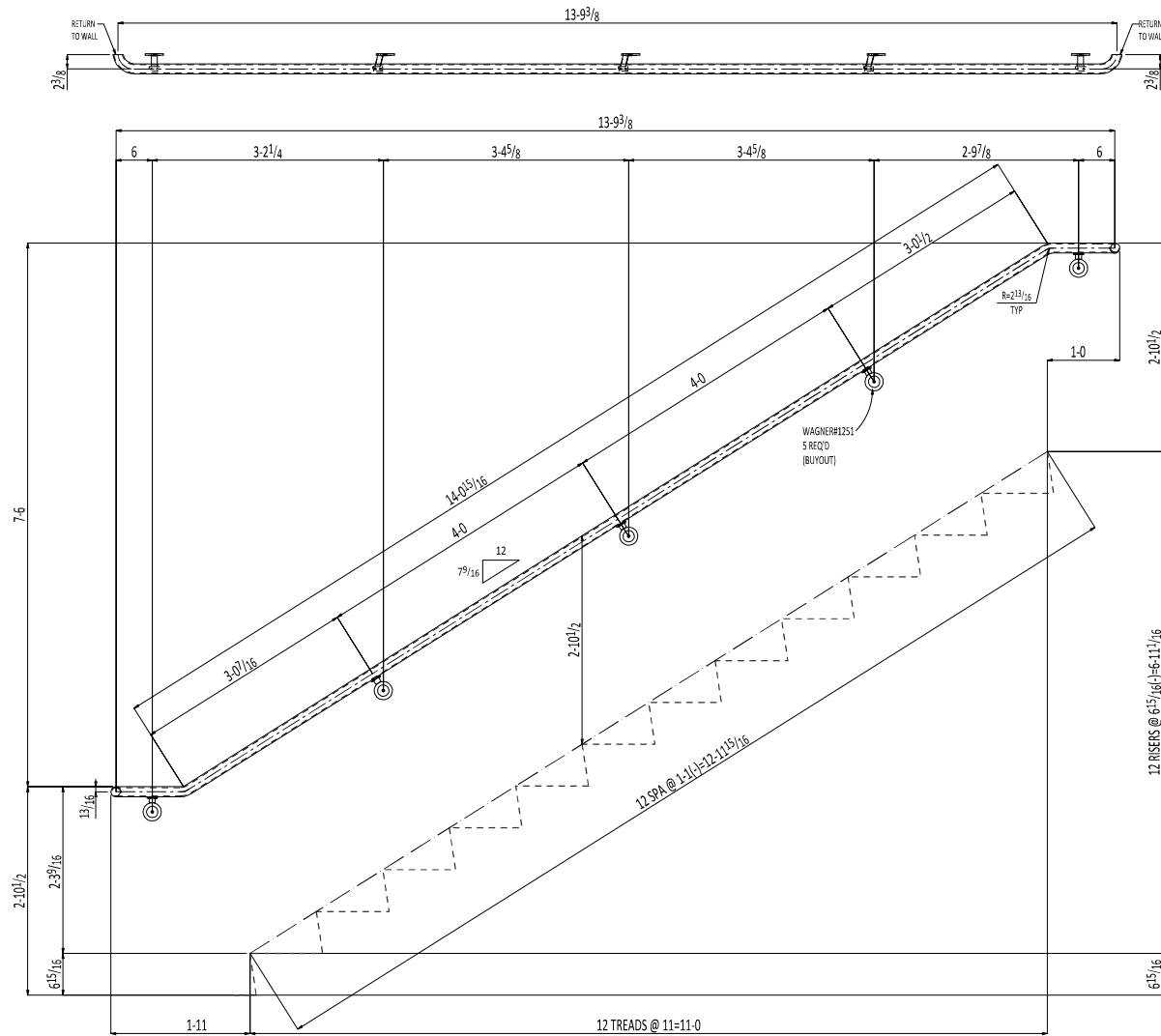
BILL OF MATERIAL									
SEQ	QTY	PC	SHP	DESCRIPTION	LENGTH	WEIGHT	STEEL		
5	1	ONE	5026HR	HANDRAIL	FT	IN	TOTAL	GRADE	
1	1	ONE	5026HR	PIPE 1 1/2 STD	13	8 3/8	37	A53B	
2	1	ONE	5026HR	PIPE 1 1/2 STD	8	3 1/2	34	A53B	
3	1	ONE	5026HR	PIPE 1 1/2 STD	9	1 1/2	14	A53B	
4	1	ONE	5026HR	PIPE 1 1/2 STD	4	1 1/8	14	A53B	
5	1	ONE	5026HR	PIPE 1 1/2 STD	3	7 1/2	10	A53B	
6	1	ONE	5026HR	PIPE 1 1/2 STD	3	7 1/2	10	A53B	
7	2	ONE	5026HR	PIPE 1 1/2 STD	2	10 1/4	16	A53B	
8	1	ONE	5026HR	PIPE 1 1/2 STD	1	7 3/8	4	A53B	
9	1	ONE	5026HR	PIPE 1 1/2 STD	1	2 1/4	3	A53B	
10	1	ONE	5026HR	PL 1/4	5	1 1/2	17	A36	



SAMPLE DRAWINGS  CADESTTEEL
ENGINEERING SERVICES LLC



ONE WALLRAIL 001-WR1



ONE WALLRAIL 001-WR2

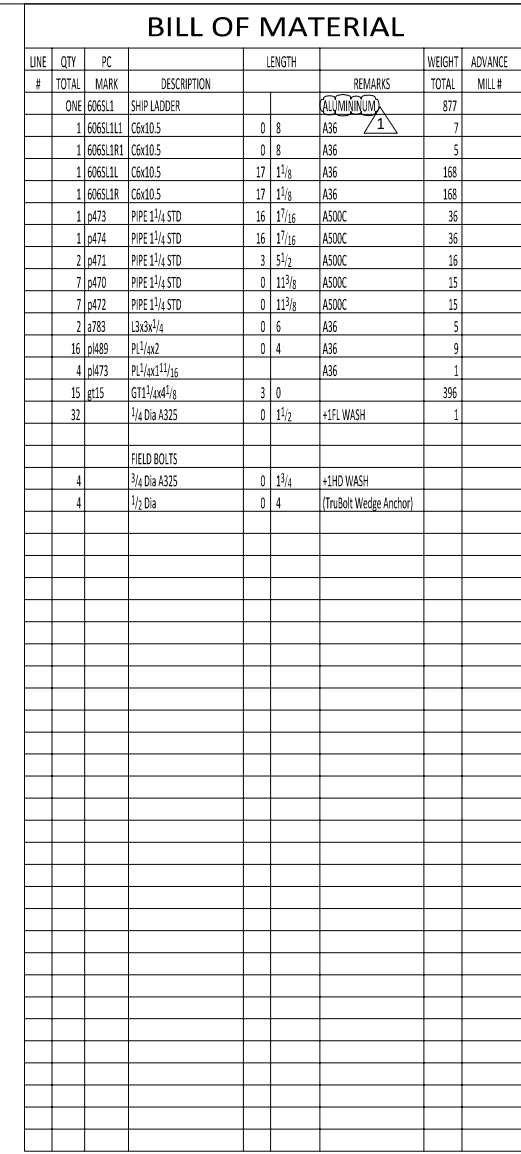
BILL OF MATERIAL

QTY	PC	MINOR	DESCRIPTION	LENGTH	STEEL	GRADE	REMARKS	WEIGHT
TOTAL	MARK	MARK	DESCRIPTION					TOTAL
ONE	001-WR1		WALLRAIL					40
1		001-WR1	PIPE 1 1/4 STD	16	1 7/8	A500B		37
5		WAGNER#1251		0	1 3/4	A36	(BUYOUT)	3
ONE	001-WR2		WALLRAIL					40
1		001-WR2	PIPE 1 1/4 STD	16	1 3/4	A500B		37
5		WAGNER#1251		0	1 3/4	A36	(BUYOUT)	3

SAMPLE DRAWINGS



JOB NAME:	
LOCATION:	
CUSTOMER:	
ARCHITECT/ENGINEER:	
BOOTS: 3/4" Dia A325N	
UNLESS NOTED	
HOLES: 13/16" DIA	
UNLESS NOTED	
DR. BY:	
CHECK BY:	
DATE:	
JOB NO.:	
SHEET NO.:	

[illegible]

REVISIONS:

DATE _____

No.

OB #

SCALE: NTS

DATE:

DRAW

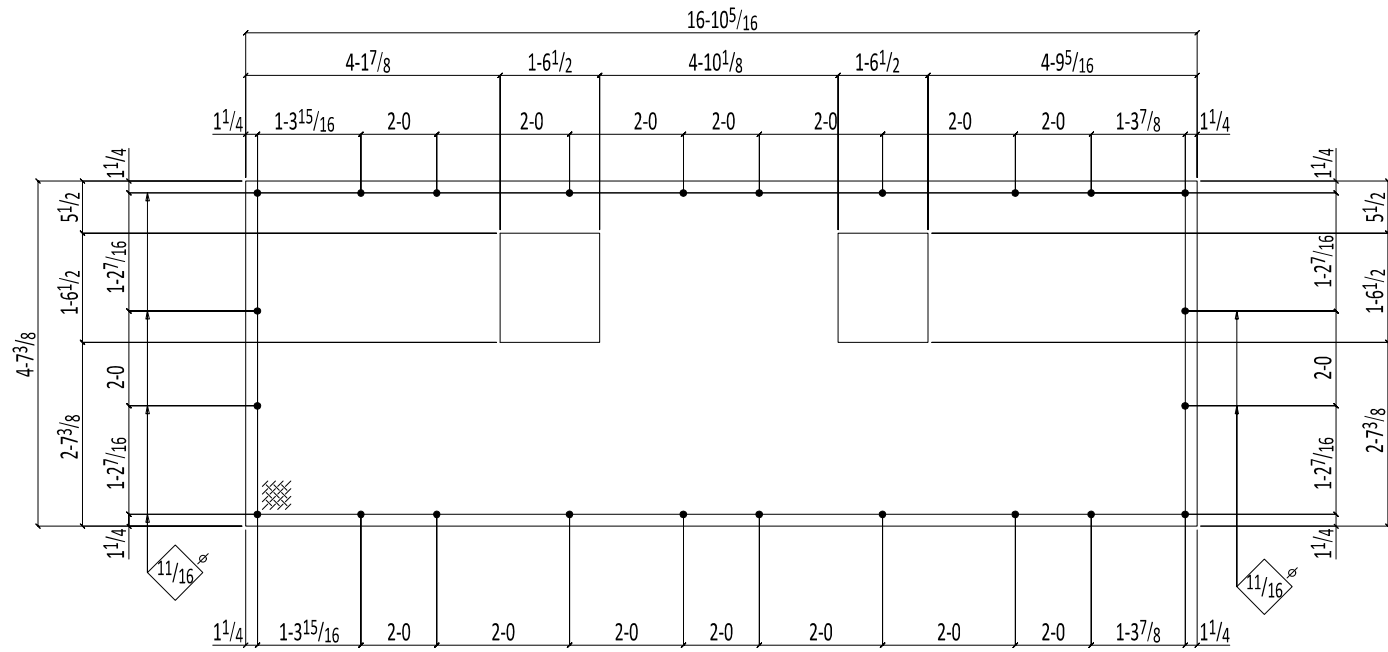
CHECK

DESCRIPTION:

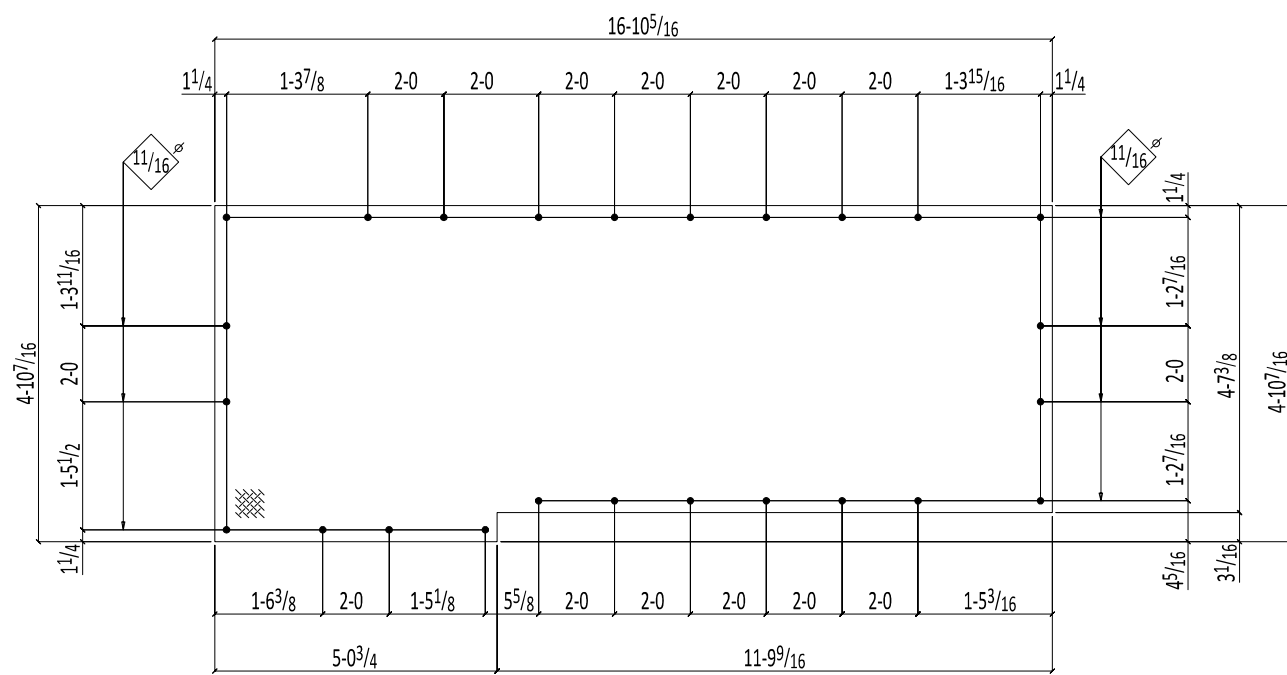
SHIP LADDER DETAILS

PAGE:

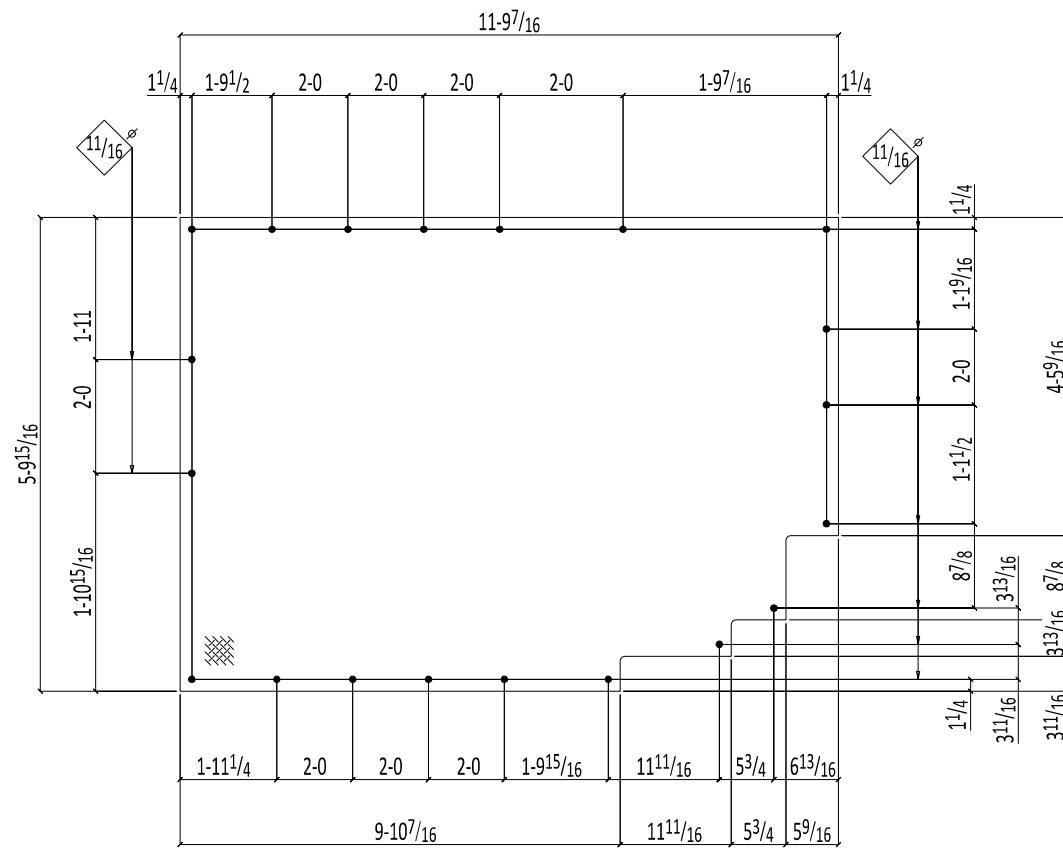
606



ONE MISC 130M1



ONE CHECKERED PLATE 130M2



ONE CHECKERED PLATE 130M3

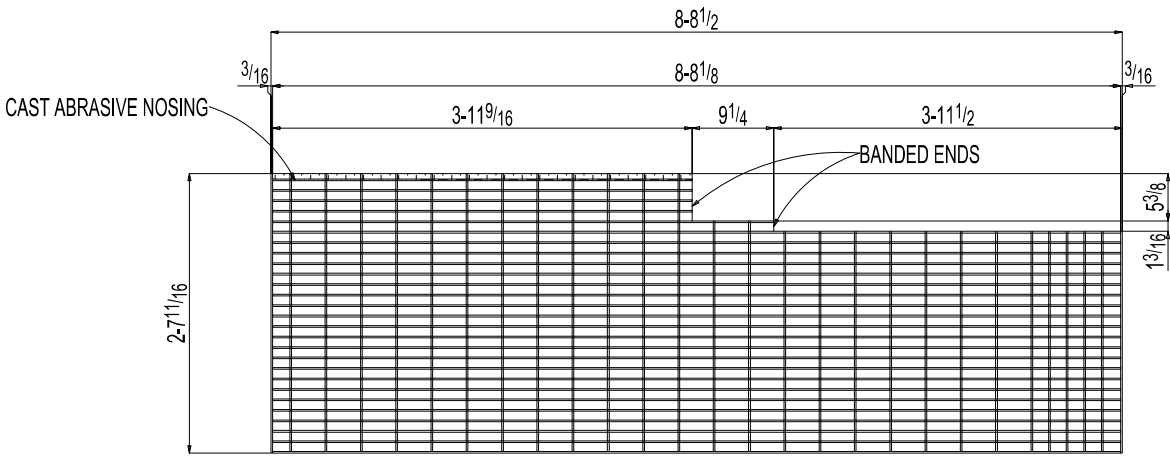
BILL OF MATERIAL

LINE #	QTY	PC	MARK	DESCRIPTION	LENGTH	REMARKS	WEIGHT	ADVANCE
#	TOTAL	MARK	DESCRIPTION				TOTAL	MILL #
ONE	130M1	MISC					876	
1	130M1	CP 1/4x55 3/8			16 10 5/16	A786	876	
ONE	130M2	CHECKERED PLATE					925	
1	130M2	CP 1/4x58 7/16			16 10 5/16	A786	925	
ONE	130M3	CHECKERED PLATE					773	
1	130M3	CP 1/4x69 15/16			11 9 7/16	A786	773	
Total weight : 2574								

PROJECT		APPROVAL/FABRICATION/REVISION			
LOCATION					
CONTRACTOR					
ARCHITECT					
REFERENCE					
HOLDS	PAINT	STD. SHOP PRIMER	REV	DATE	DESCRIPTION
13/16" DIA.	SURFACE PREP.	SSPC-SP2	DRAWN	CHECKED	SHEET #
VALUED BY: NTC					130
					JOB #

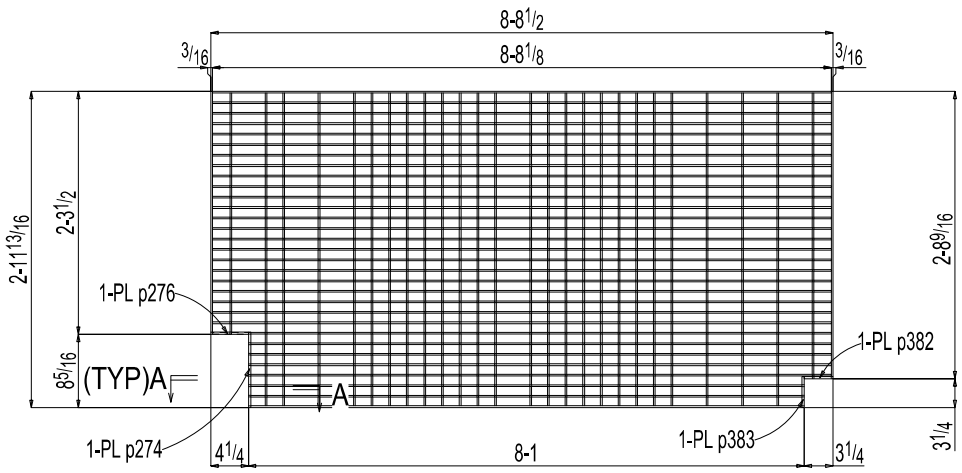
SAMPLE DRAWINGS





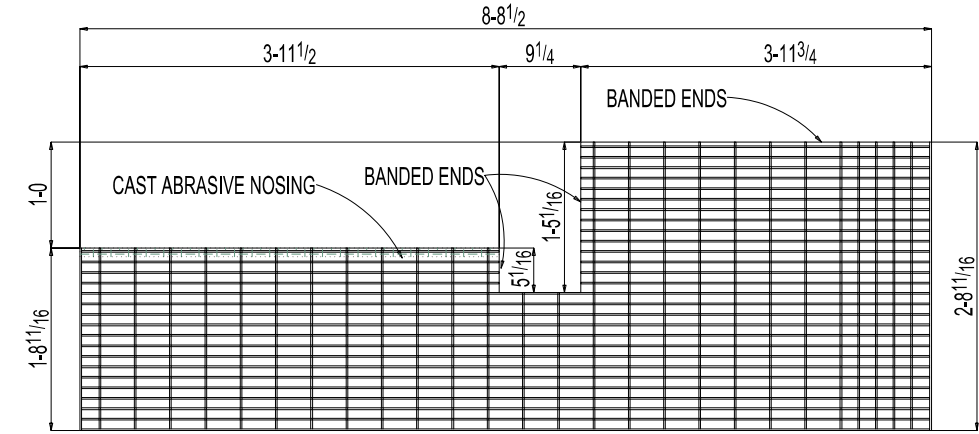
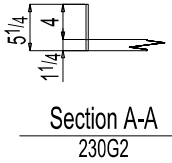
ONE GRATING 230G1

19-W-4



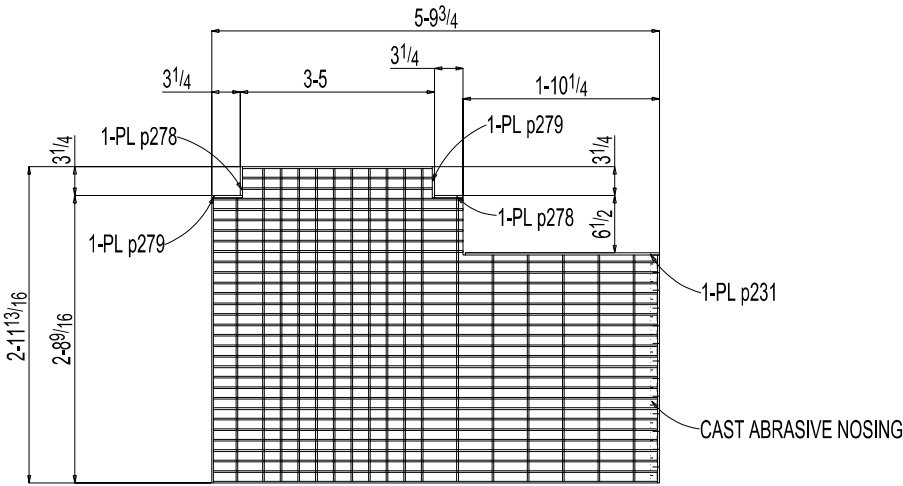
2 GRATINGS 230G2

19-W-4



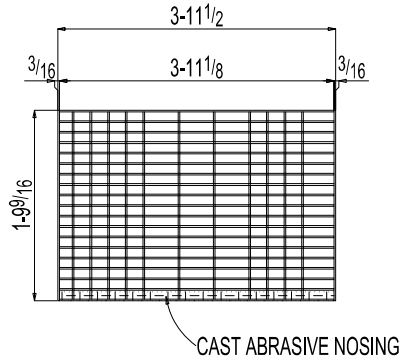
ONE GRATING 230G3

19-W-4



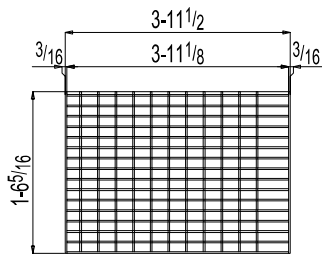
ONE GRATING 230G4

19-W-4



ONE GRATING 230G5

19-W-4



ONE GRATING 230G6

19-W-4

BILL OF MATERIAL

QTY	PC	LENGTH	STEEL	REMARKS	FINISH
TOTAL	MARK	DESCRIPTION	GRADE		
ONE	230G1	GRATING			GALV
1	230G1	GR1 1/4x32 1/2	8 8 1/2	A-1011 19-W-4	
2	230G2	GRATING		Galv	GALV
2	230G2	GR1 1/4x35 13/16	8 8 1/2	A-1011 19-W-4	
2	p274	PL 1/4x5 1/4	0 8 9/16	A36	
2	p276	PL 1/4x4 1/4	0 5 1/4	A36	
2	p383	PL 1/4x3 1/2	0 5 1/4	A36	
2	p382	PL 1/4x3 1/4	0 5 1/4	A36	
ONE	230G3	GRATING			GALV
1	230G3	GR1 1/4x33 7/16	8 8 1/2	A-1011 19-W-4	
ONE	230G4	GRATING			GALV
1	230G4	GR1 1/4x35 13/16	5 9 3/4	A-1011 19-W-4	
1	p231	PL 1/4x5 1/4	1 10	A36	
2	p383	PL 1/4x3 1/2	0 5 1/4	A36	
2	p382	PL 1/4x3 1/4	0 5 1/4	A36	
ONE	230G5	GRATING			GALV
1	230G5	GR1 1/4x21 9/16	3 11 1/2	A-1011 19-W-4	
ONE	230G6	GRATING		Galv	GALV
1	230G6	GR1 1/4x19 3/16	3 11 1/8	A-1011 19-W-4	