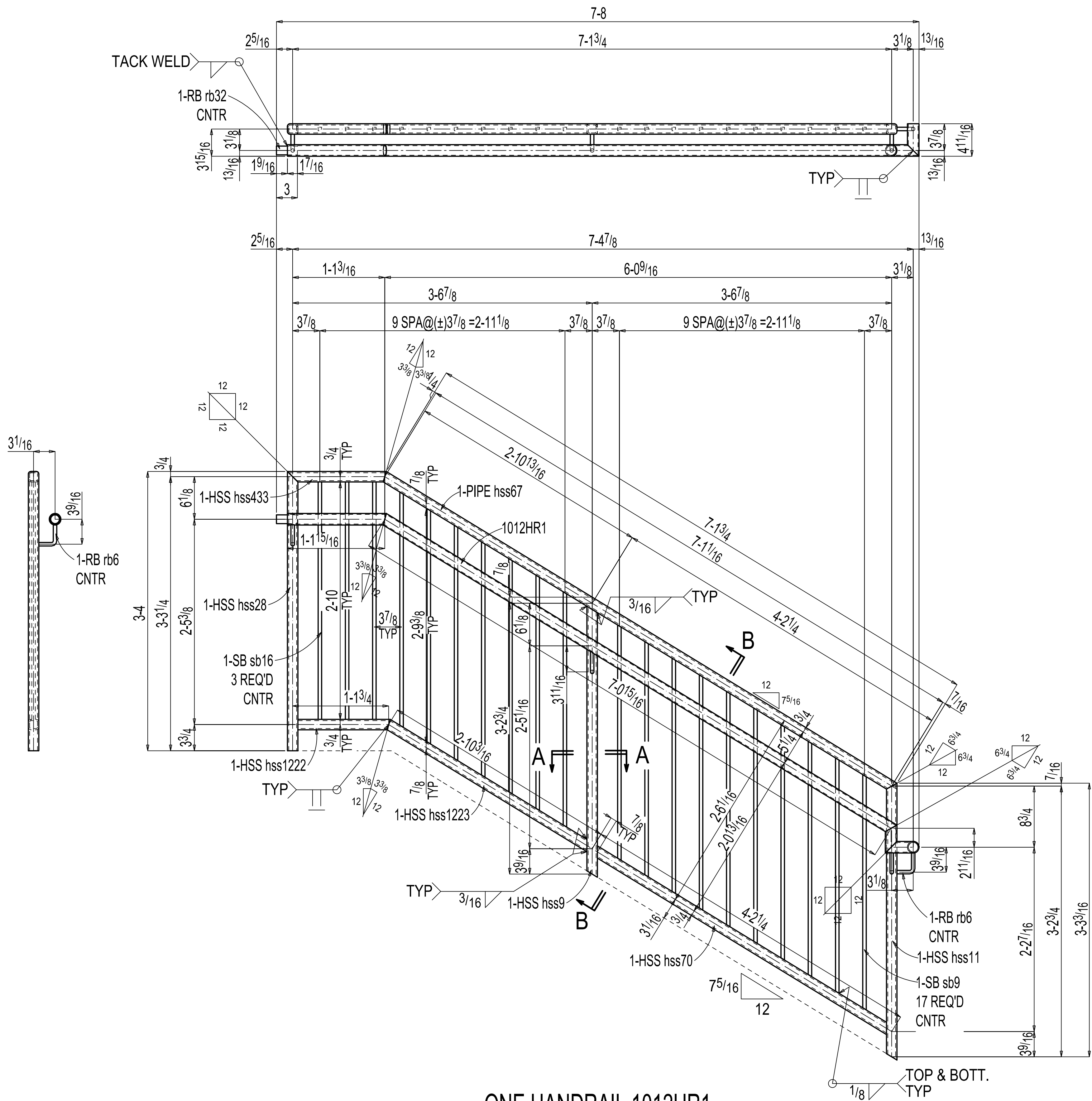
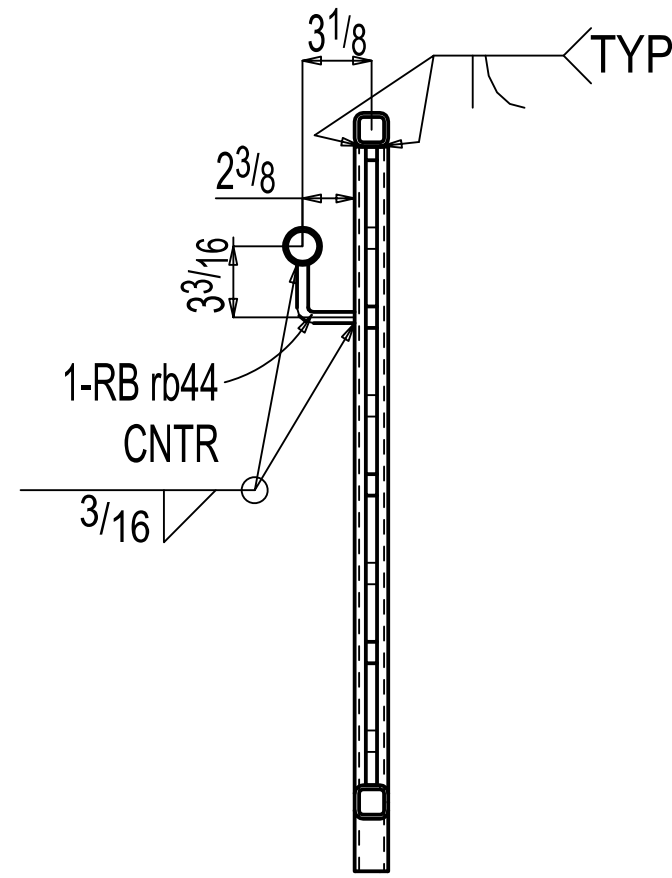


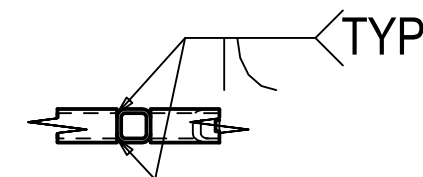


ONE HANDRAIL 1012HR1



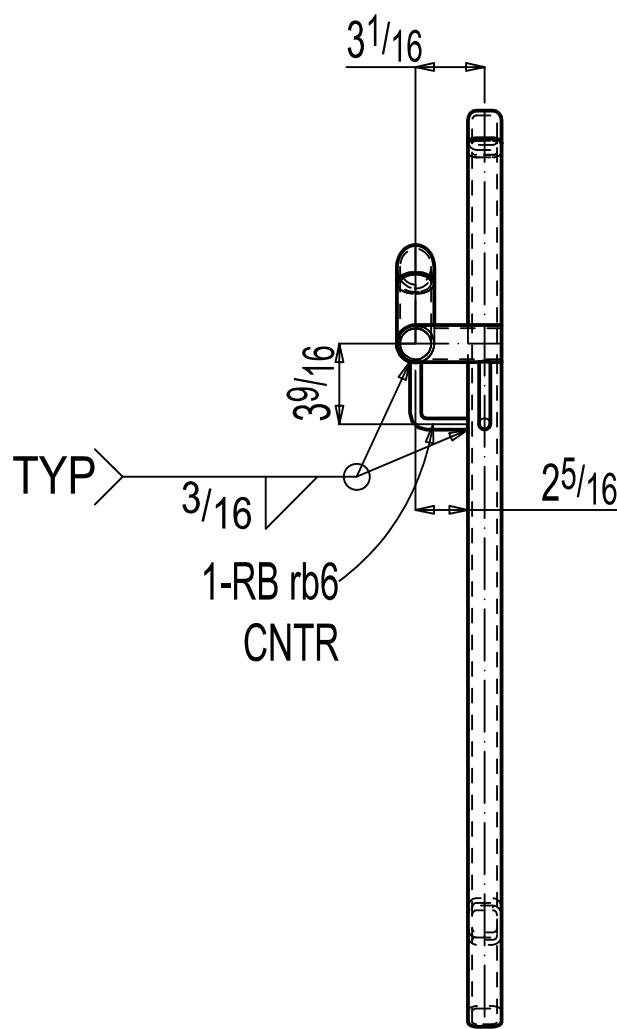
Section B-B

1012HR1



Section A-A

1012HR1



BILL OF MATERIAL						
QTY	PC	DESCRIPTION	LENGTH	REMARKS	WEIGHT	ADVANCE
TOTAL	MARK				TOTAL	MILL #
ONE 1012HR1 HANDRAIL						
1	1012HR1	PIPE 1 1/4 SCH 40	10 0	L.F. A53B	23	
1	hss67	HSS 1 1/2 x 1 1/2 x 3/16	7 1 1/16	A500B	26	
1	hss70	HSS 1 1/2 x 1 1/2 x 3/16	4 1 7/16	A500B	15	
1	hss28	HSS 1 1/2 x 1 1/2 x 3/16	3 4	A500B	12	
1	hss11	HSS 1 1/2 x 1 1/2 x 3/16	3 3 5/8	A500B	12	
1	hss9	HSS 1 1/2 x 1 1/2 x 3/16	3 2 13/16	A500B	12	
1	hss1223	HSS 1 1/2 x 1 1/2 x 3/16	2 9 15/16	A500B	10	
1	hss433	HSS 1 1/2 x 1 1/2 x 3/16	1 2 7/8	A500B	4	
1	hss1222	HSS 1 1/2 x 1 1/2 x 3/16	1 1 3/16	A500B	4	
3	rb6	RB 1/2	0 5 1/8	A36	3	
1	rb44	RB 1/2	0 5 3/16	A36	1	
1	rb32	RB 1 1/4	0 3	A36	1	
3	sb16	SB 1/2	2 10	A36	7	
17	sb9	SB 1/2	2 9 1 1/16	A36	40	
Total weight : 172						

CLIENT / PROJECT: PRINCETON HOBSON COLLEGE

PRINCETON, NJ

ITEM #2 DWG TITLE: - HANDRAIL DETAIL

HOLES: Ø1 3/16 UNO PIPES: A53B

ELECTRODES: 70XXX UNO TUBES: A500B

BEAMS: A992 FINISH: PRIME PAINTED

ANGLE, CHANNELS, PLATES & BARS: A36

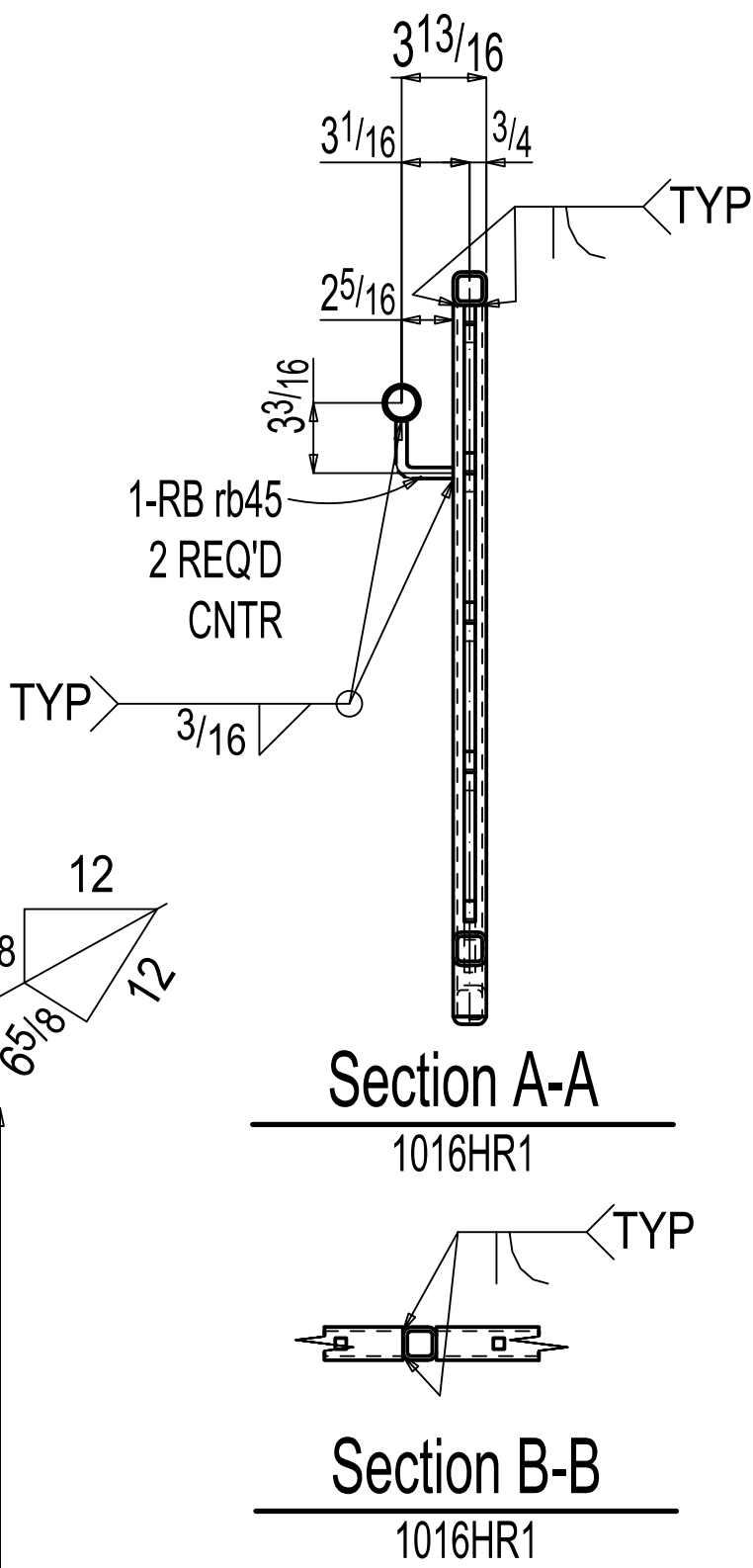
SCALE: - DRAWING: -

DWN. BY: DATE: - 12-10-2024

CHK'D, BY: DATE: - 12-10-2024

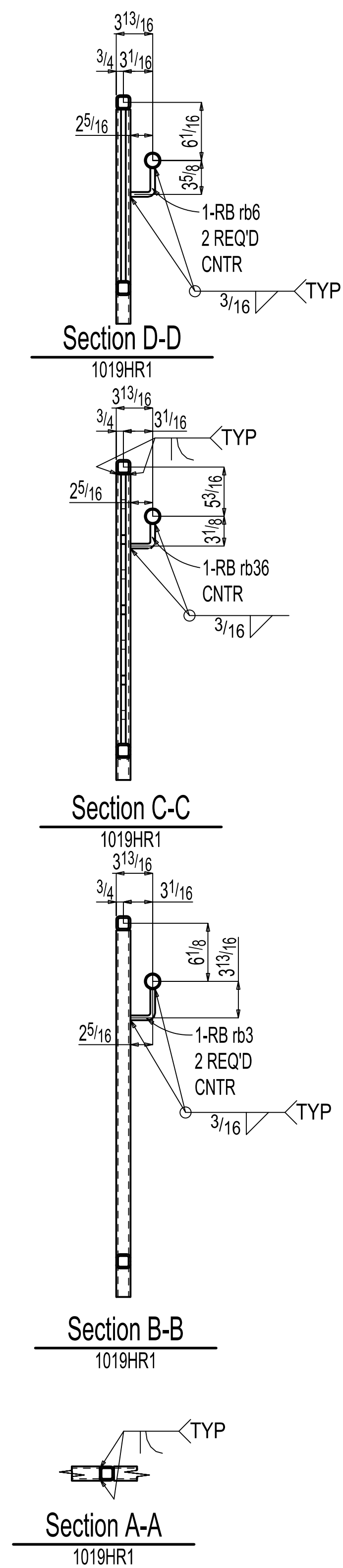
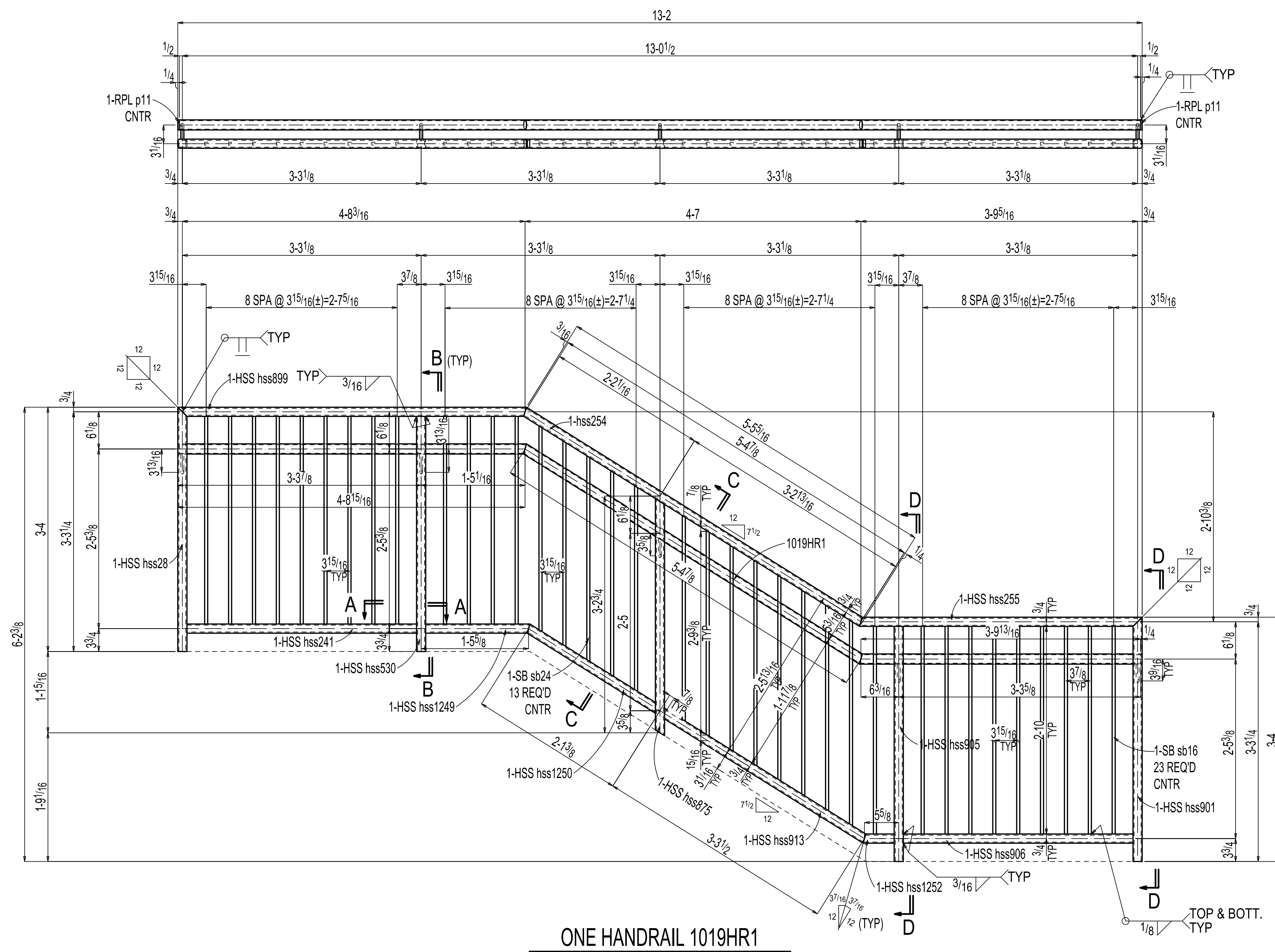
1012

0	FOR FABRICATION	SDL-JAL	12 / 10 / 2024
NO	REVISION	BY	DATE
SCG PROJECT: --	PFG PROJECT: --	STEEL FAB:	

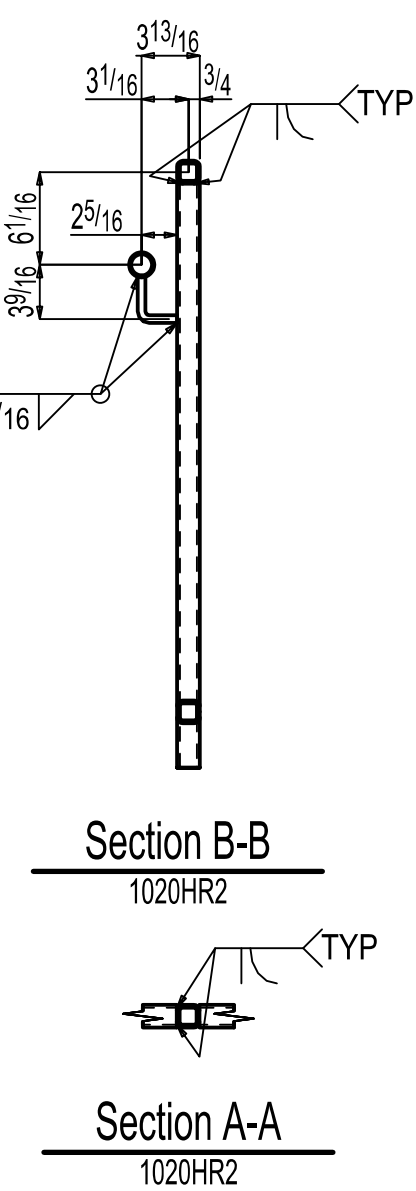
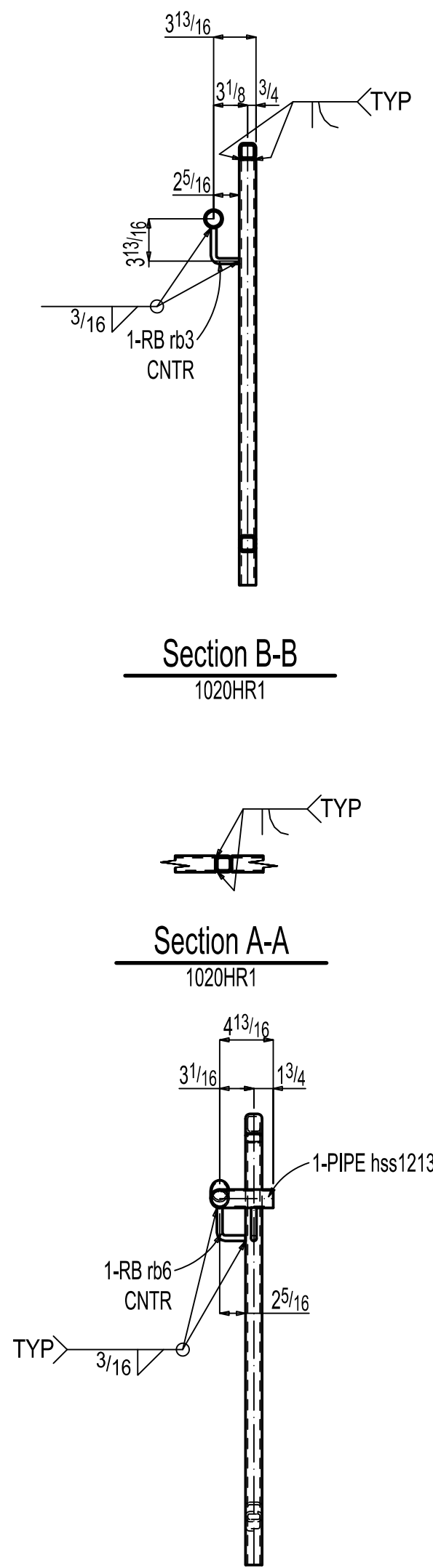


Total weight : 132

						ITEM # 2		DWG TITLE: - HANDRAIL DETAIL		
						HOLES: Ø13/16 UNO	PIPES: A53B			
						ELECTRODES: 70XXX UNO	TUBES: A500B	SCALE: -		DRAWING: -
0	FOR FABRICATION			SDL-JAL	12 / 10 / 2024	BEAMS: A992	FINISH: PRIME PAINTED	DWN. BY:	DATE: - 12-10-2024	1016
NO	REVISION			BY	DATE					
SCG PROJECT: ---		PFG PROJECT: ---		STEEL FAB:		ANGLE, CHANNELS, PLATES & BARS: A36		CHK'D. BY:	DATE: - 12-10-2024	

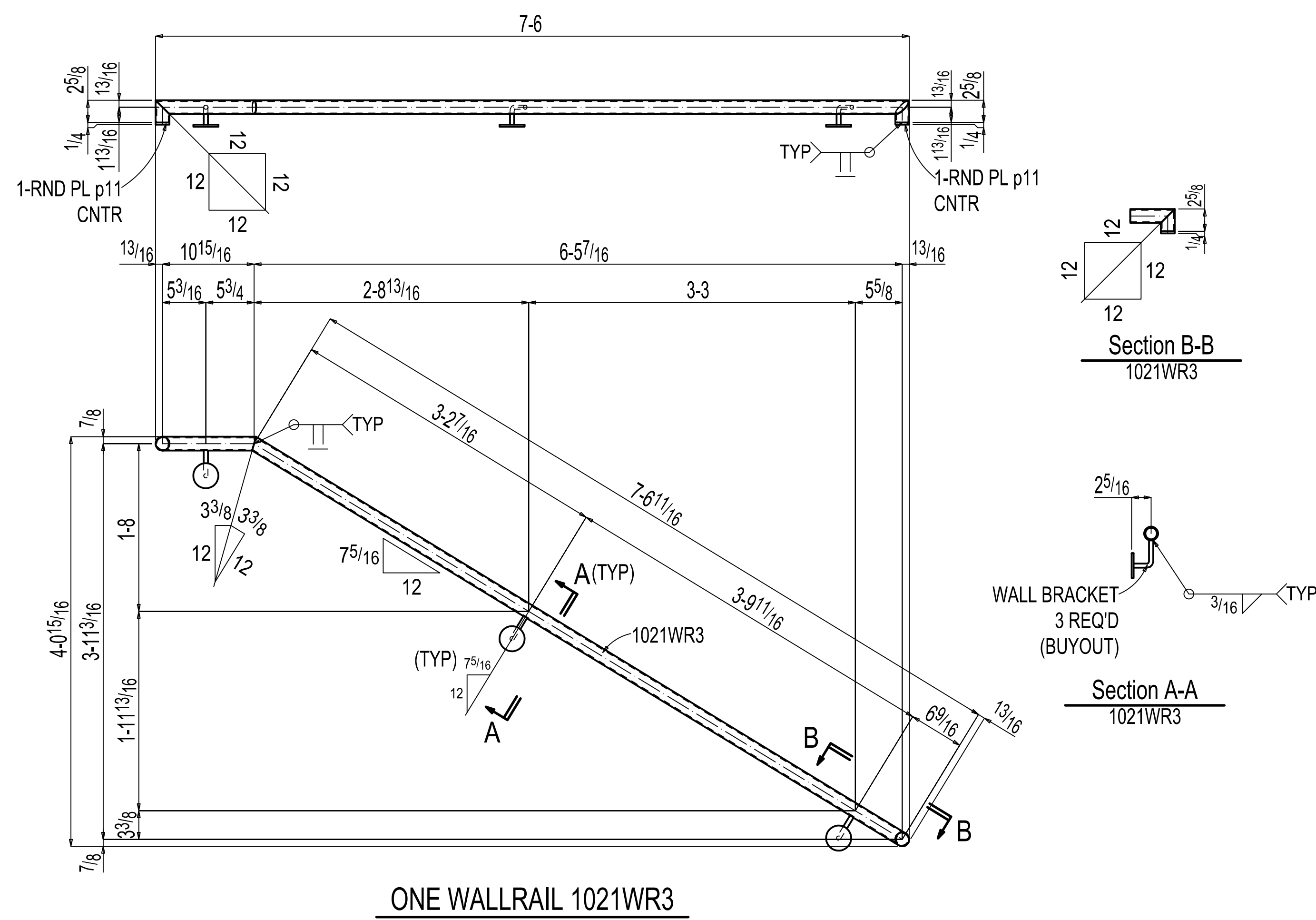
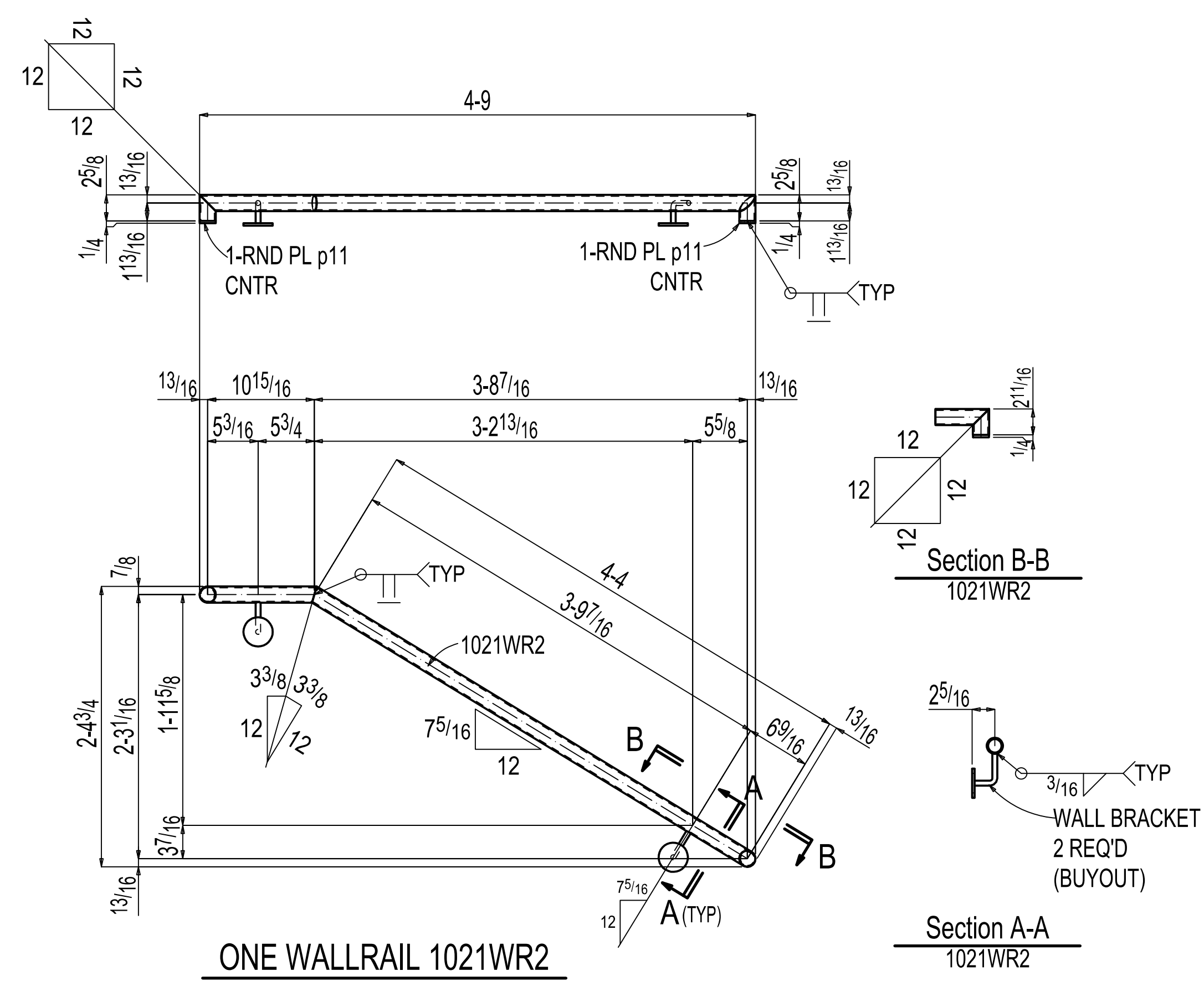
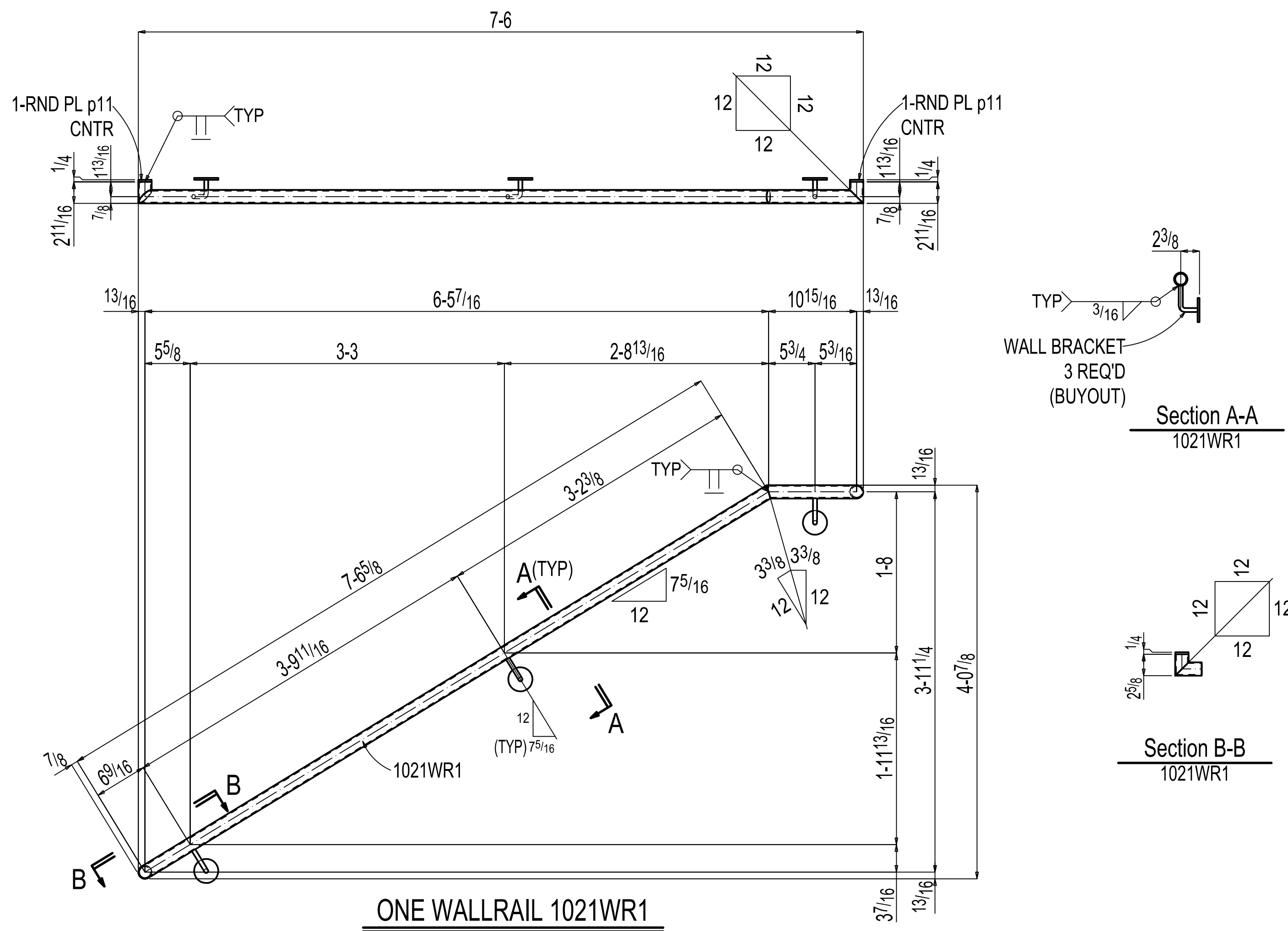
[illegible]

				PRINCETON, NJ			
				ITEM # 2		DWG TITLE: - HANDRAIL DETAIL	
				HOLES: Ø13/16 UNO	PIPES: A53B		
				ELECTRODES: 70XXX UNO	TUBES: A500B	SCALE: -	DRAWING: -
0	FOR FABRICATION		SDL-JAL	12 / 10 / 2024			
NO	REVISION		BY	DATE	BEAMS: A992	FINISH: PRIME PAINTED	DWN. BY: DATE: - 12-10-2024
SCG PROJECT: ---		PFG PROJECT: ---		STEEL FAB:	ANGLE, CHANNELS, PLATES & BARS: A36		CHKD. BY: DATE: - 12-10-2024

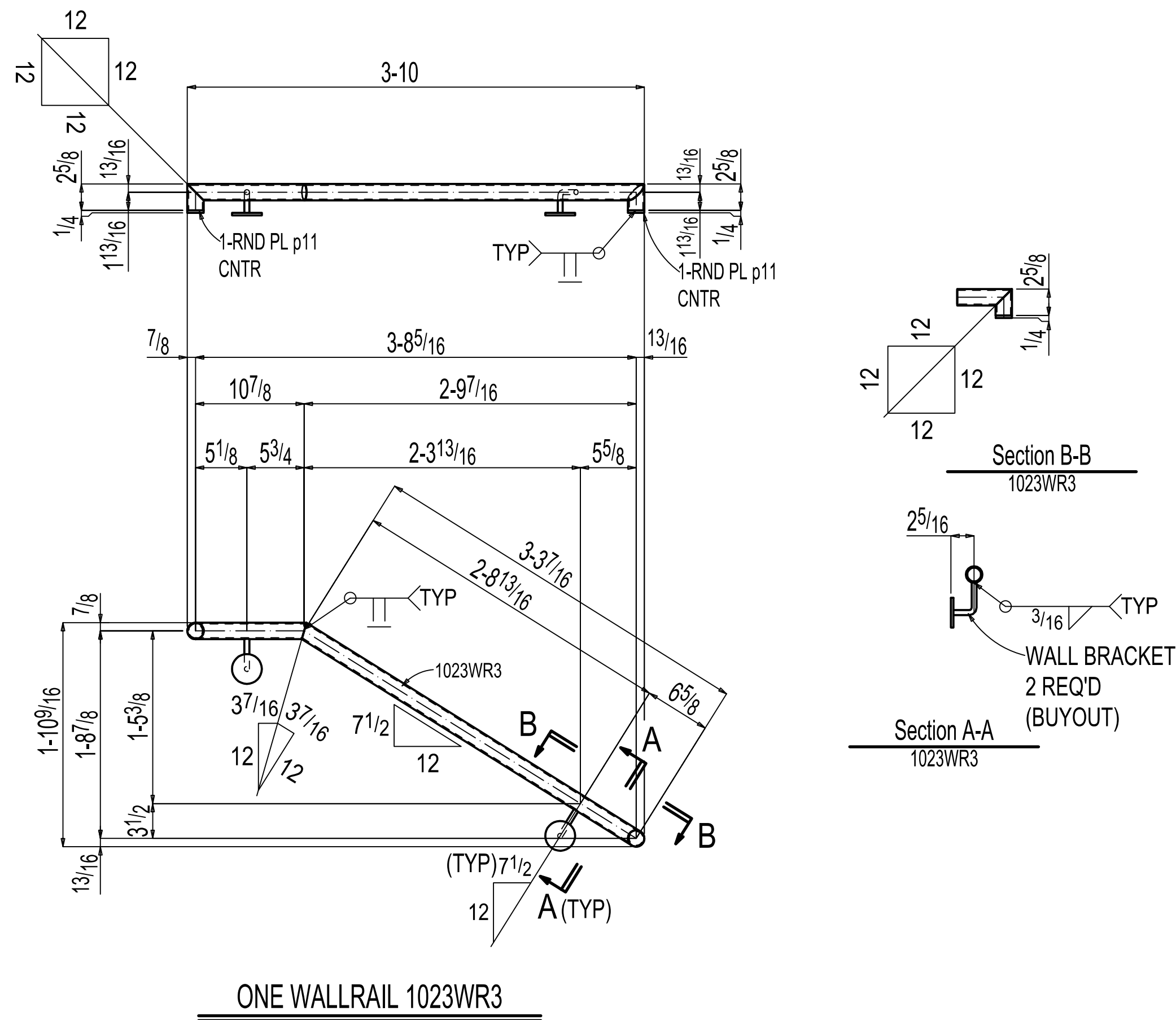
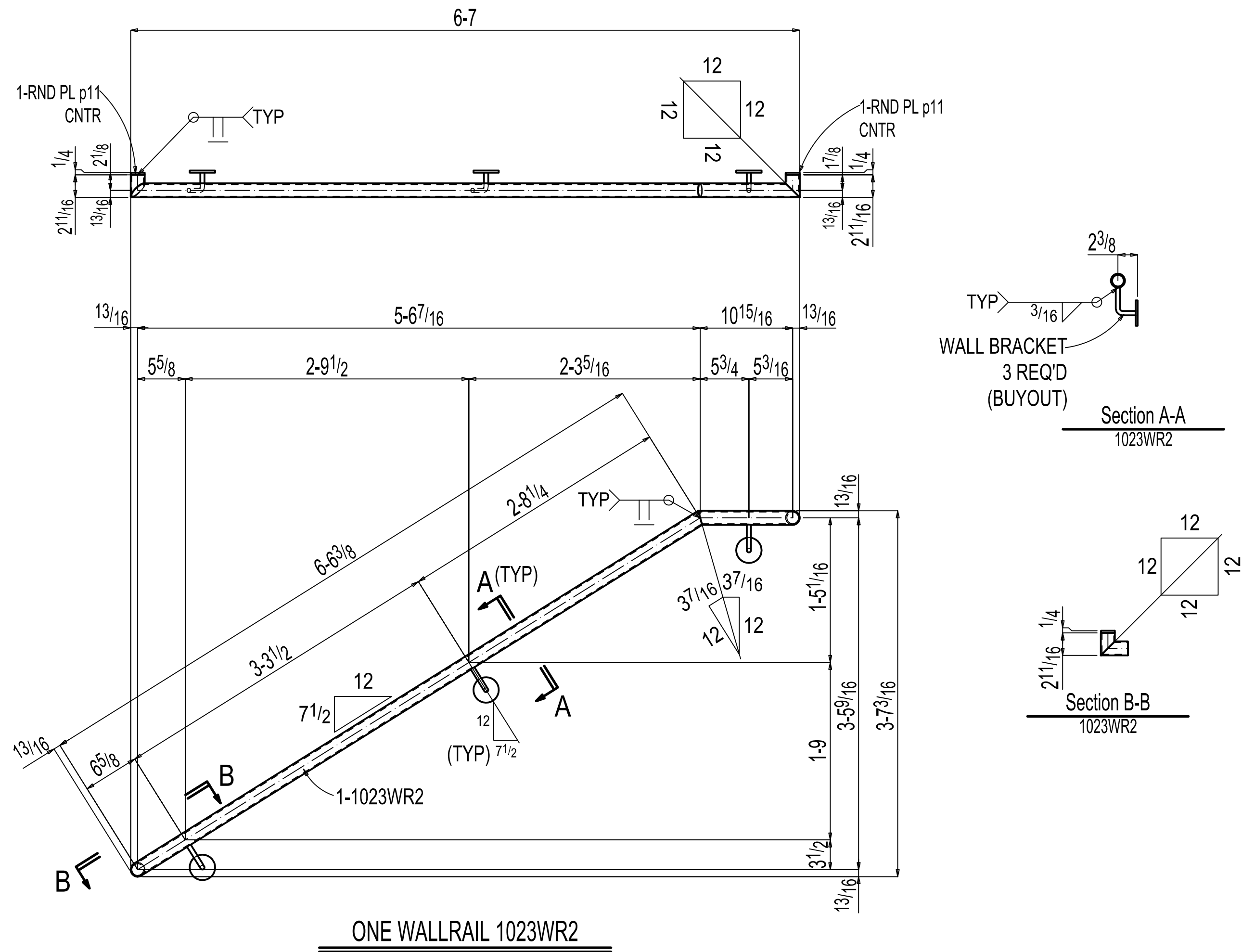
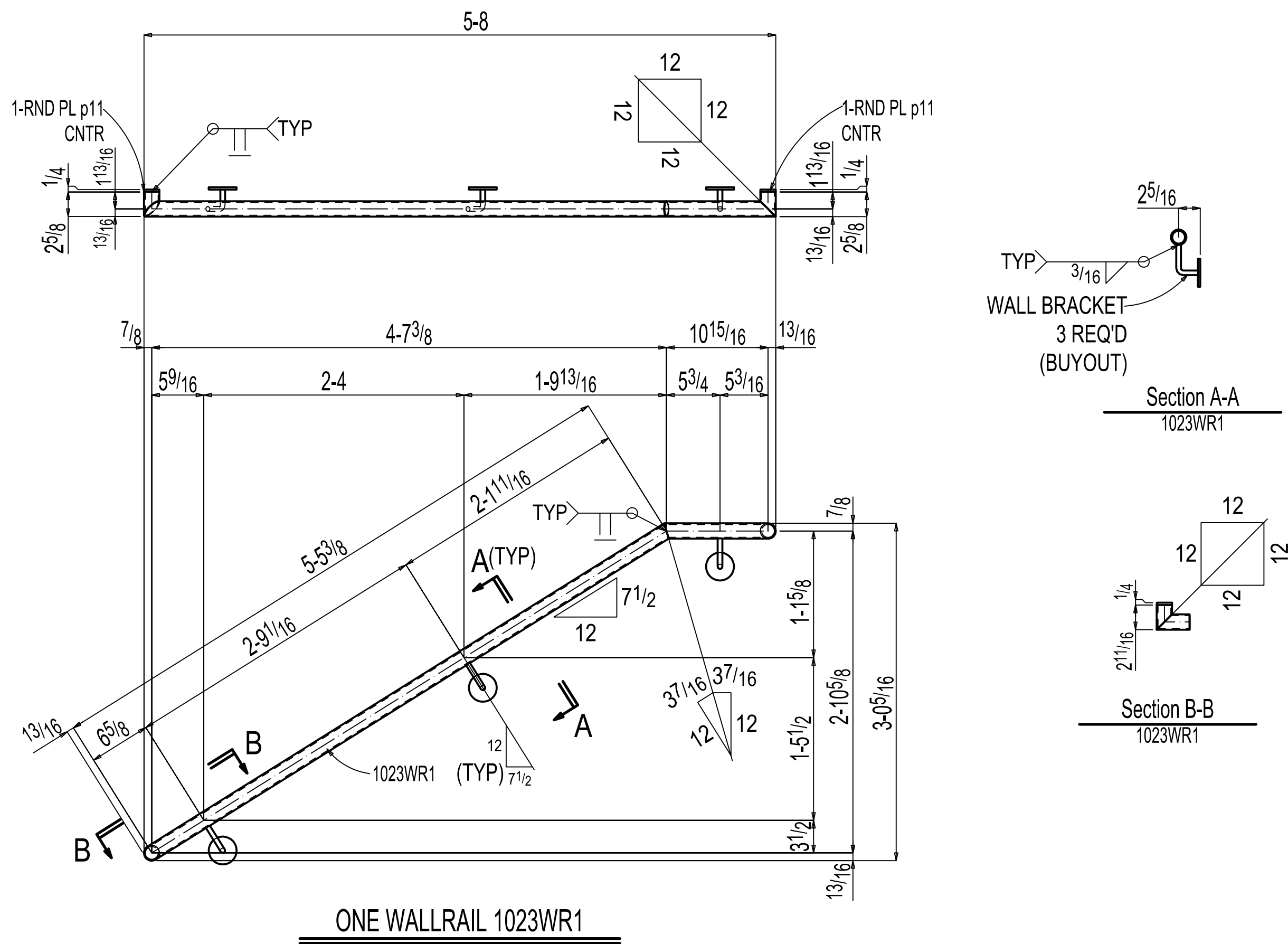


Total weight : 251

1020

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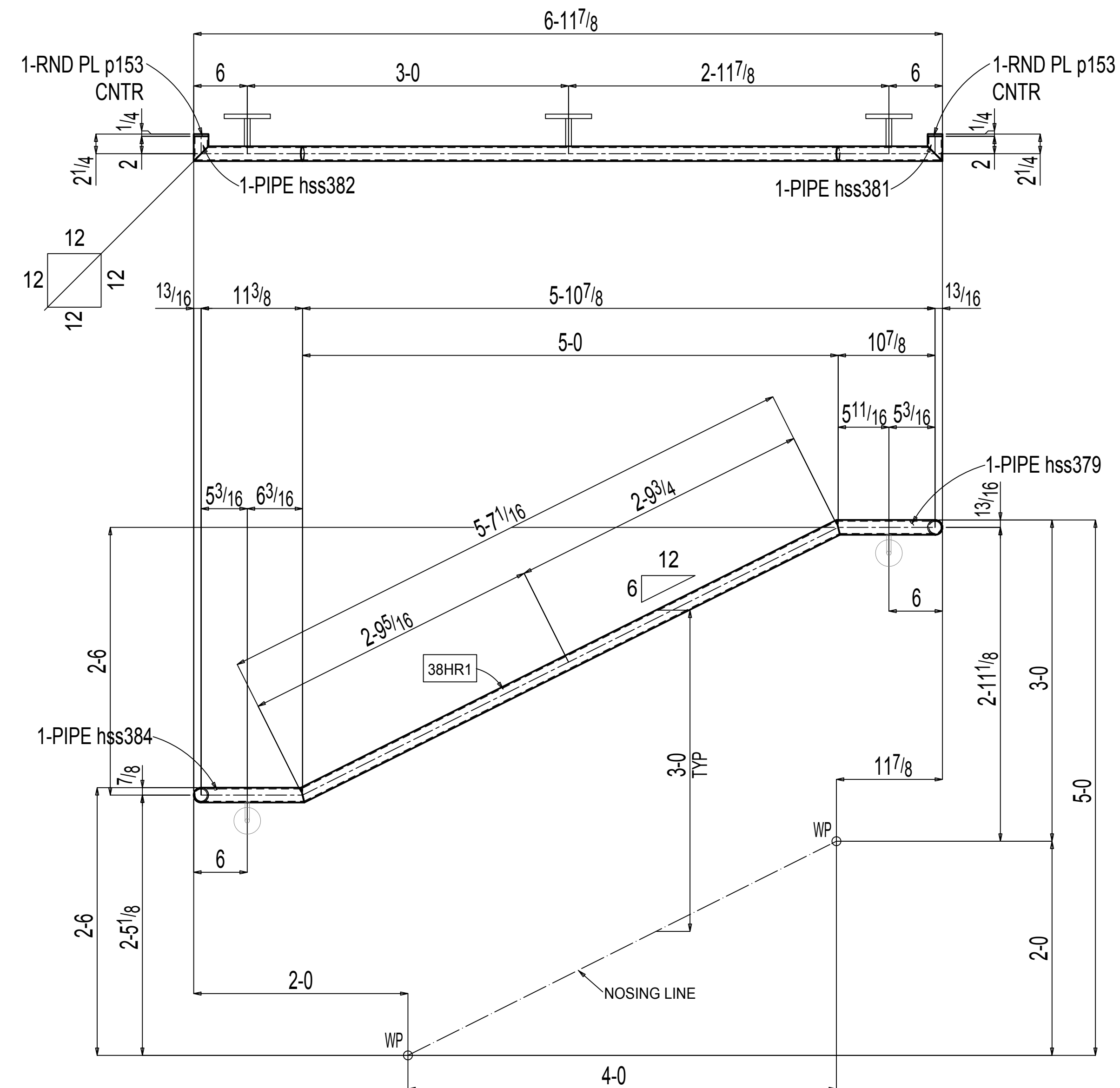
				CLIENT / PROJECT: PRINCETON HOBSON COLLEGE			
				PRINCETON, NJ			
				ITEM # 2		DWG TITLE: - WALLRAIL DETAIL	
				HOLES: Ø13/16 UNO	PIPES: A53B		
				ELECTRODES: 70XXX UNO	TUBES: A500B	SCALE: --	
0	FOR FABRICATION		SDL-JAL	12 / 10 / 2024			DRAWING: -
NO	REVISION		BY	DATE			1021
SCG PROJECT: --		PFG PROJECT: --	STEEL FAB:		ANGLE, CHANNELS, PLATES & BARS: A36		
					CHK'D. BY:	DATE: - 12-10-2024	



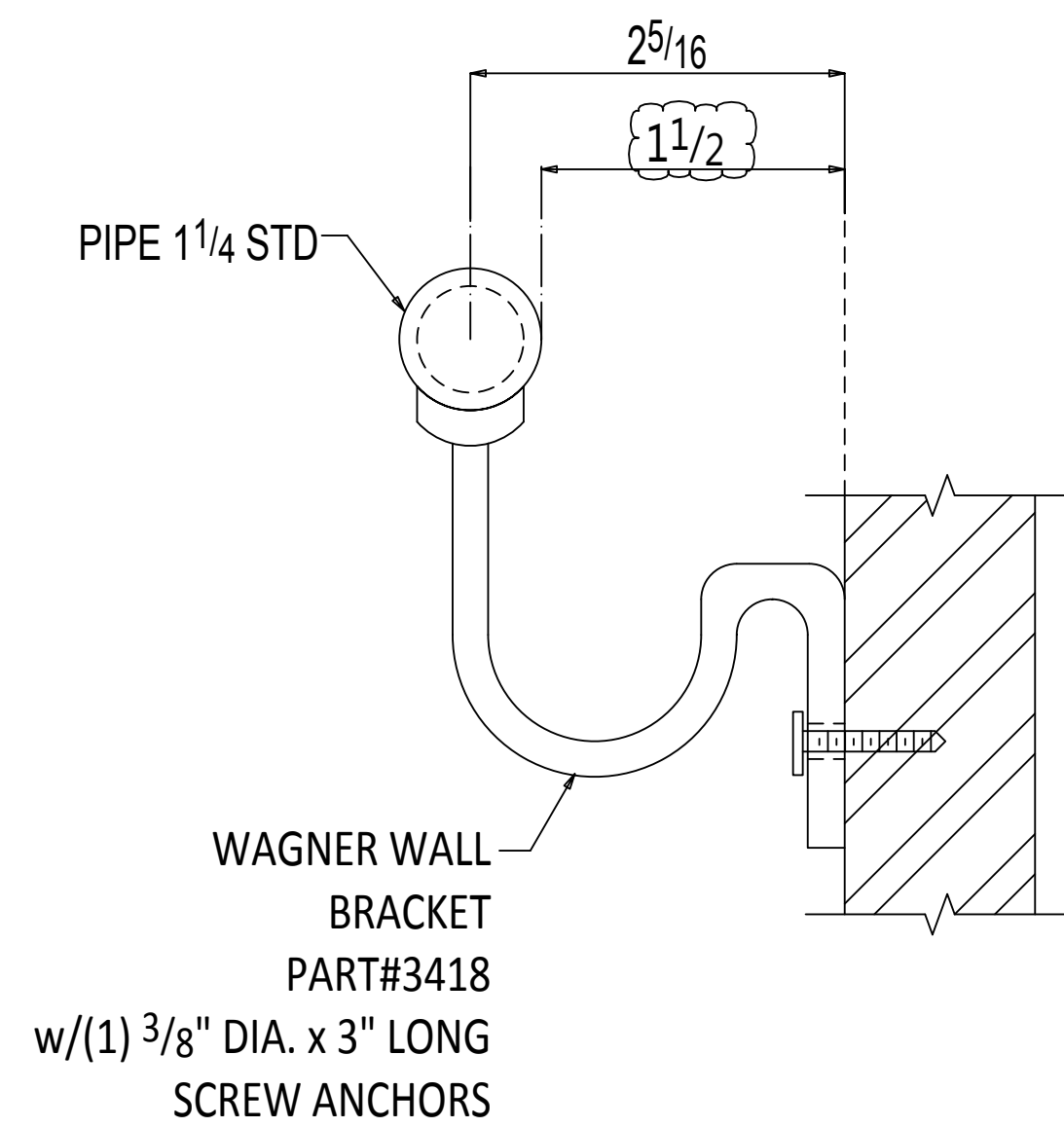
BILL OF MATERIAL						
QTY	PC	DESCRIPTION	LENGTH	REMARKS	WEIGHT	ADVANCE
TOTAL	MARK				TOTAL	MILL #
ONE	1023WR1	WALLRAIL			17	
1	1023WR1	PIPE 1 1/4 STD	7' 6"	L.F. A53B	17	
3		WALL BRACKET		(BUYOUT)		
2	p11	RPL 1/2x1 1/16		A36	0	
ONE	1023WR2	WALLRAIL			21	
1	1023WR2	PIPE 1 1/4 STD	9' 0"	L.F. A53B	20	
3		WALL BRACKET		(BUYOUT)		
2	p11	RPL 1/2x1 1/16		A36	0	
ONE	1023WR3	WALLRAIL			25	
2	1023WR3	PIPE 1 1/4 STD	5' 6"	L.F. A53B	25	
2		WALL BRACKET		(BUYOUT)		
2	p11	RPL 1/2x1 1/16		A36	0	
					Total weight : 63	

						ITEM # 2				DWG TITLE: - WALLRAIL DETAIL		DRAWING: - <
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BILL OF MATERIAL								
NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
ONE	WALL RAIL				38HR1	19	19	
1	PIPE 1¼ STD	5	7 1/2	38HR1		13	13	A53B
1	PIPE 1¼ STD	1	0 3/8	hss384		2	2	A53B
1	PIPE 1¼ STD	0	1 1/8	hss379		2	2	A53B
1	PIPE 1¼ STD	0	2 3/4	hss381		1	1	A53B
1	PIPE 1¼ STD	0	2 3/4	hss382		1	1	A53B
2	RPL 1/4x1 1/16			p153		0	0	A36
2	WAGNER BRACKET							#3418
3	3/8" Dia LONG SCREW	0	3					



ONE WALL RAIL 38HR1



TYPICAL WAGNER BRACKET DETAIL

TOTAL WEIGHT THIS DRAWINGS:19

MATERIAL	
WIDE FLANGE	A992 (UNO)
PIPE	A53B (UNO)
TUBE	A500B (UNO)
CHANNEL	A36 (UNO)
PLATE,ANGLE,BAR	A36 (UNO)

PAINT: 1-S/C PRIMER

OPEN HOLES:	$1\frac{3}{16}$ " DIA (UNO)	OPEN SLOTS:	$1\frac{3}{16}$ "x1" DIA (UNO)	BOLT:	$\frac{3}{4}$ " DIA A325(UNO)	EDGE DIST.	$1\frac{1}{2}$ "(UNO)
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REV.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CUSTOMER: _____
ARCHITECT: _____
PROJECT: _____
LOCATION: _____

DRAWN _____ DATE _____	FOR APPL. _____	ORDER NO. _____
CHKD _____ DATE _____	TO SHOP _____	REV. <u>A</u> DWG. <u>38</u>

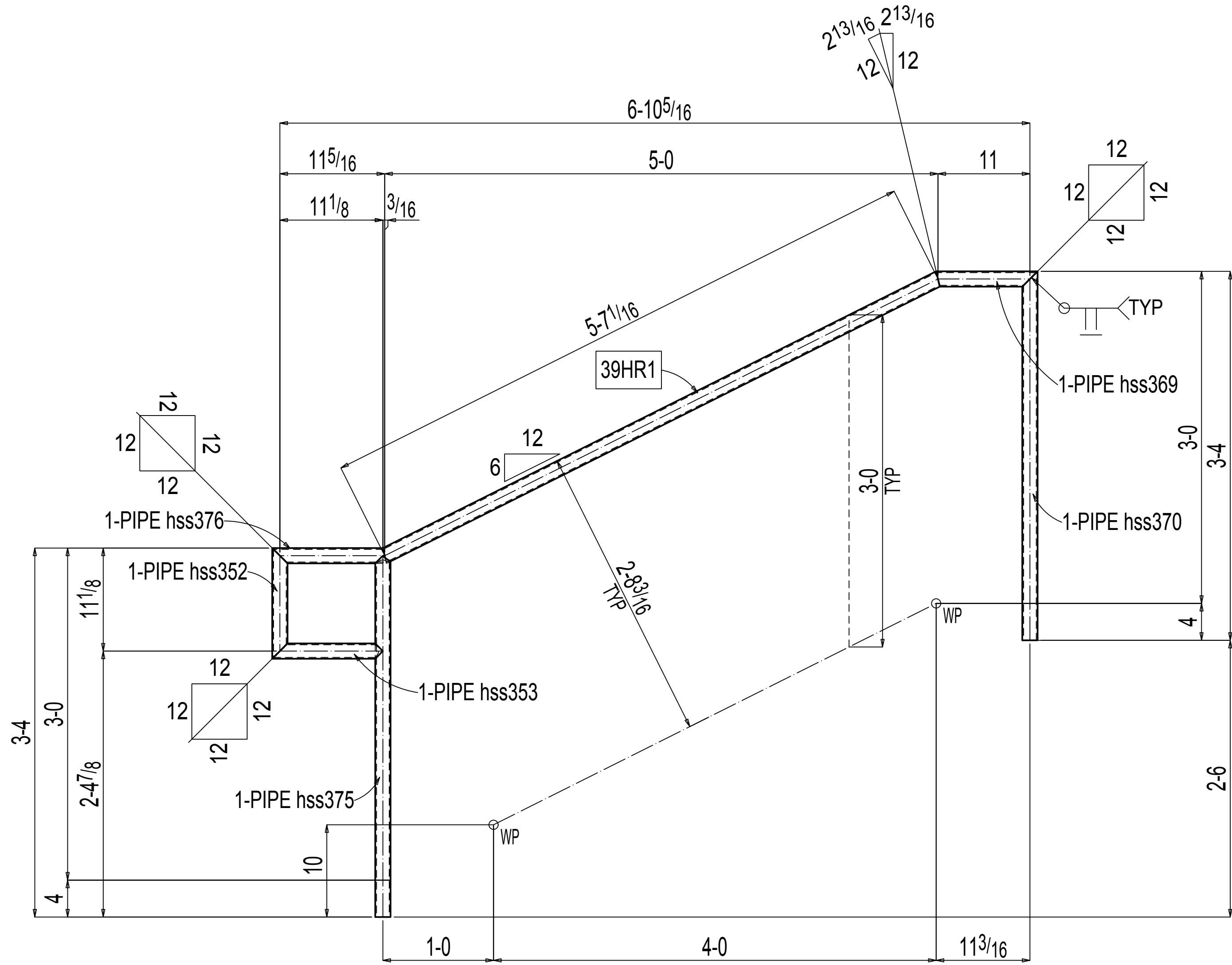
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TO COMPLY WITH THIS REQUIREMENT
WILL BECOME CONTRACTORS/ERECTORS LIABILITY
ANY QUESTIONS CALL (956) 722-4656

DATE: _____ SIGNATURE: _____

REF:E21 THRU E23

ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL.
ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED.
ALL SNIPS TO BE $\frac{3}{4}$ " X $\frac{1}{4}$ " UNLESS NOTED.
ALL COPES TO BE RADIUSED.
⊗ DENOTES "CONTACT SURFACE" THIS SIDE OF PLATE.
HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS
X INDICATES LAYOUT MARK FOR FABRICATION
LD=LD+1/2" HD=1/2" WASHER RL=WROUGHT WASHER
MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS
IN SAME LOCATION AS ON ERECTION DRAWING NO.



ONE HANDRAIL 39HR1

BILL OF MATERIAL

NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
ONE	HANDRAIL				39HR1	37	37	
1	PIPE 1 1/4 STD		5 7 1/2	39HR1		13	13	A53B
1	PIPE 1 1/4 STD		3 4	hss370		8	8	A53B
1	PIPE 1 1/4 STD		3 3 3/16	hss375		7	7	A53B
1	PIPE 1 1/4 STD		1 0 3/8	hss376		2	2	A53B
1	PIPE 1 1/4 STD		1 0	hss353		2	2	A53B
1	PIPE 1 1/4 STD		1 0	hss369		2	2	A53B
1	PIPE 1 1/4 STD		1 0	hss352		2	2	A53B

TOTAL WEIGHT THIS DRAWINGS:111

PART: 1-SC PRIMER
OPEN HOLES: 1/8" DIA (UNO) OPEN SLOTS: 1/8"x1" DIA (UNO) BOLT: 3/4" DIA A325(UNO) EDGE DIST: 1 1/2"(UNO)

MATERIAL	
WIDE FLANGE	A992 (UNO)
PIPE	A53B (UNO)
TUBE	A500B (UNO)
CHANNEL	A36 (UNO)
PLATE/ANGLE/BAR	A36 (UNO)

NOTICE TO CONTRACTORS AND/OR ERECTORS

MODERN MACHINE SHOP, INC. WILL NOT ACCEPT BACKCHARGES FOR CORRECTIVE WORK OR REPLACED MATERIALS UNLESS AUTHORIZED AND APPROVED. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL BECOME CONTRACTORS/ERECTORS LIABILITY. ANY QUESTIONS CALL (565) 722-4656

DATE: SIGNATURE:

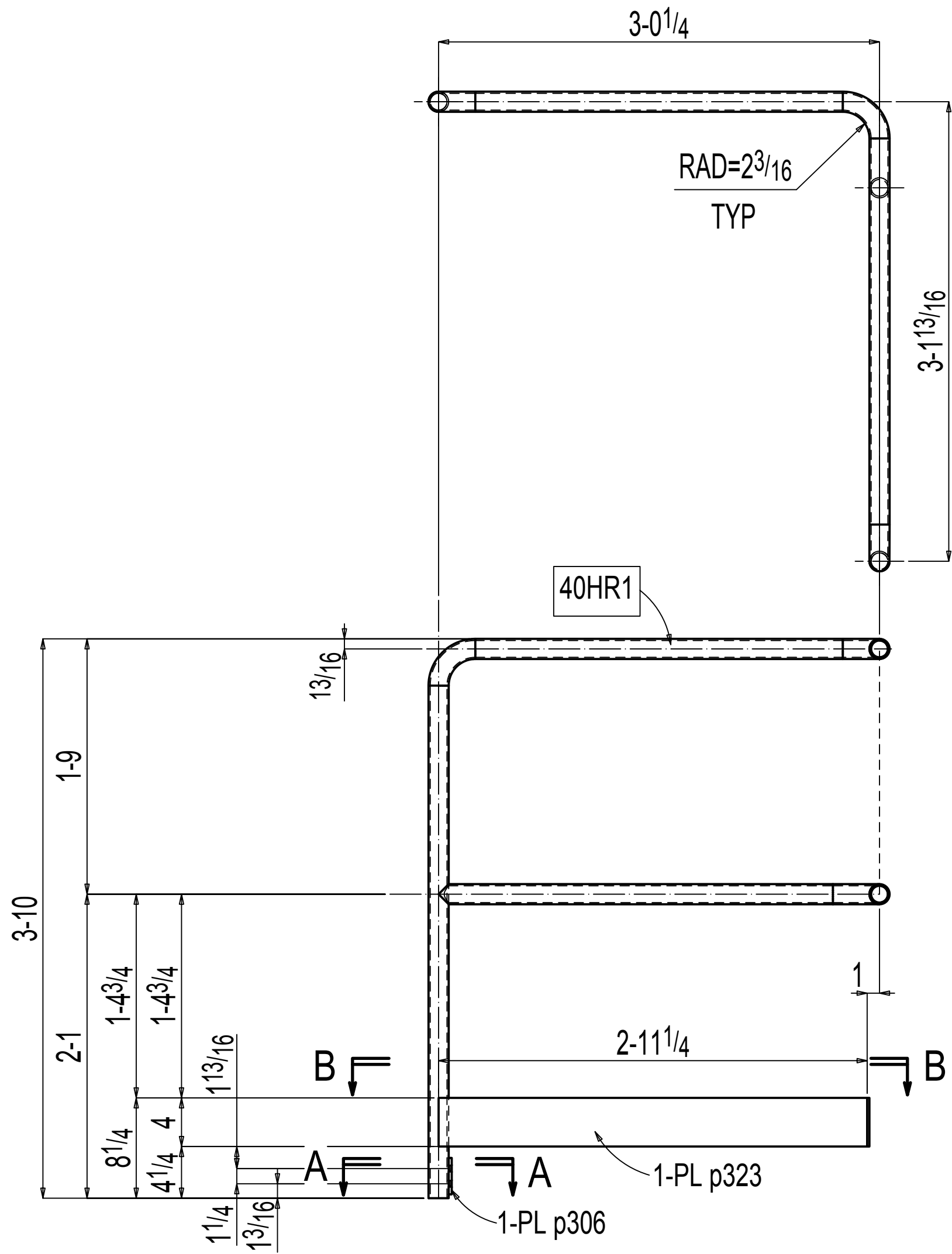
REF:E21 THRU E23

ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL.
ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED.
ALL SNIPS TO BE 1/4" X 1/4" UNLESS NOTED.
ALL COPIES TO BE RADIIUSED.
⊗ DENOTES "CONTACT SURFACE"THIS SIDE OF PLATE.
HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS
X INDICATES LAYOUT MARK FOR FABRICATION
LD=L(W)DTI HD=FLT WASHER FL=HROUGHT WASHER
MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS IN SAME LOCATION AS ON ERECTION DRAWING NO.

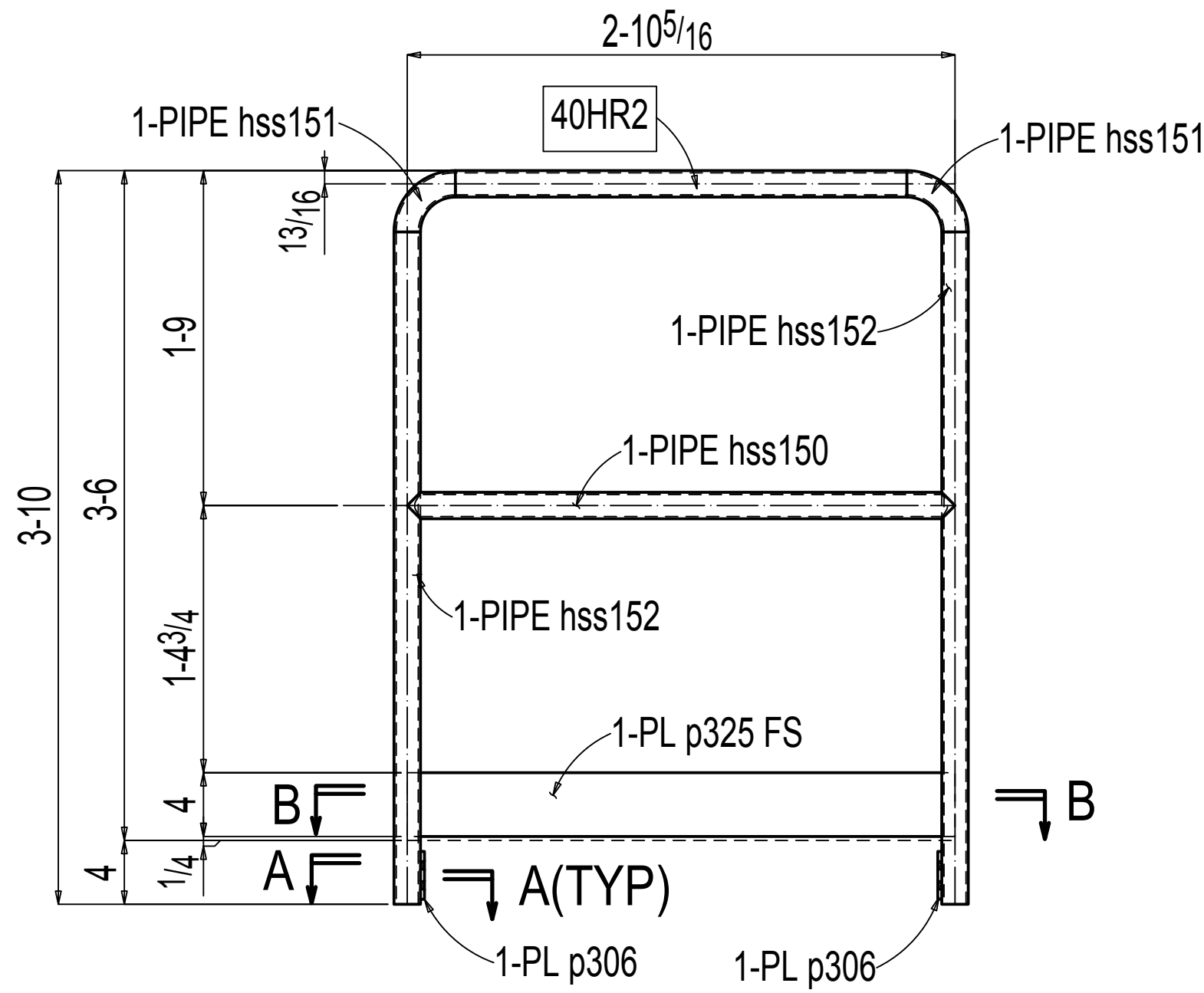
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CUSTOMER: _____
ARCHITECT: _____
PROJECT: _____
LOCATION: _____

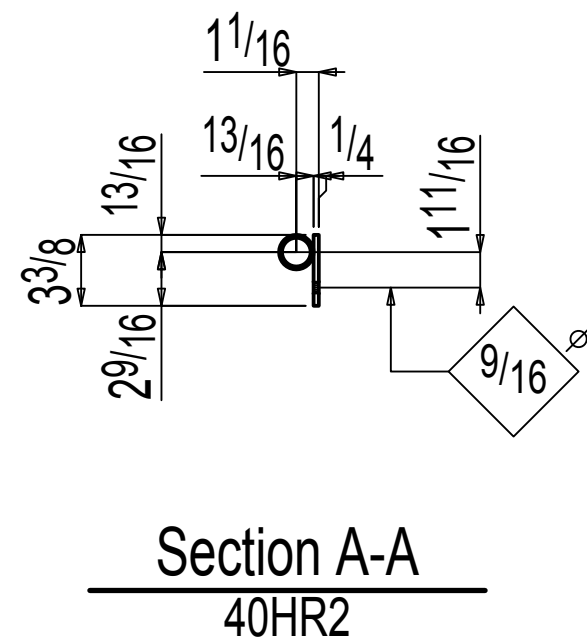
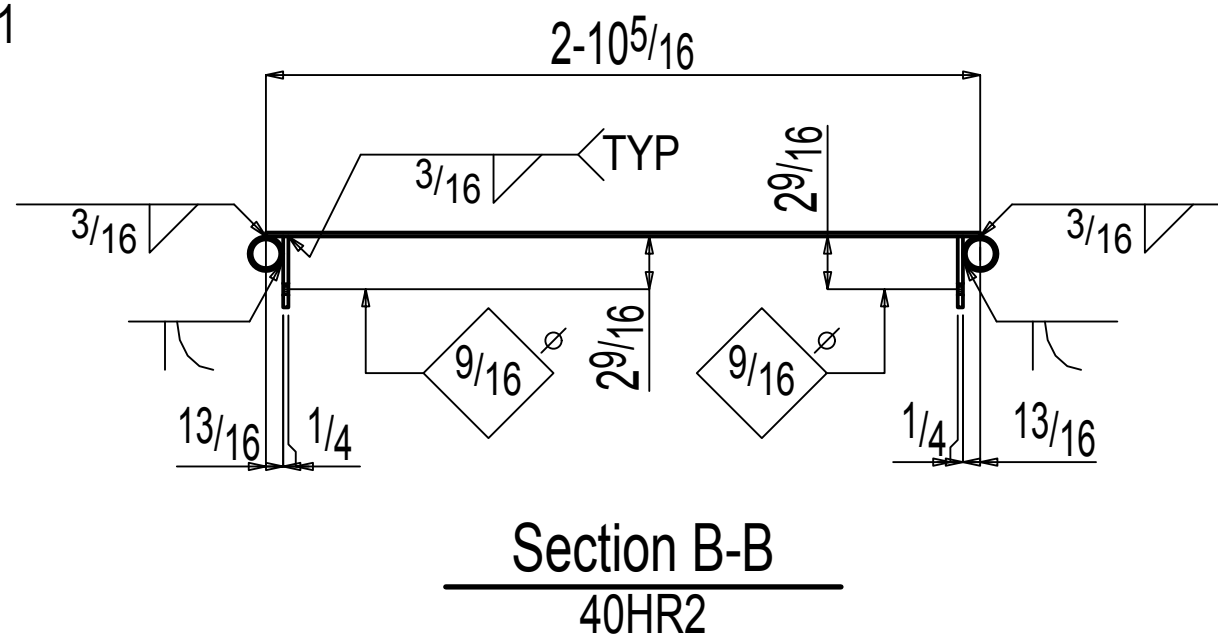
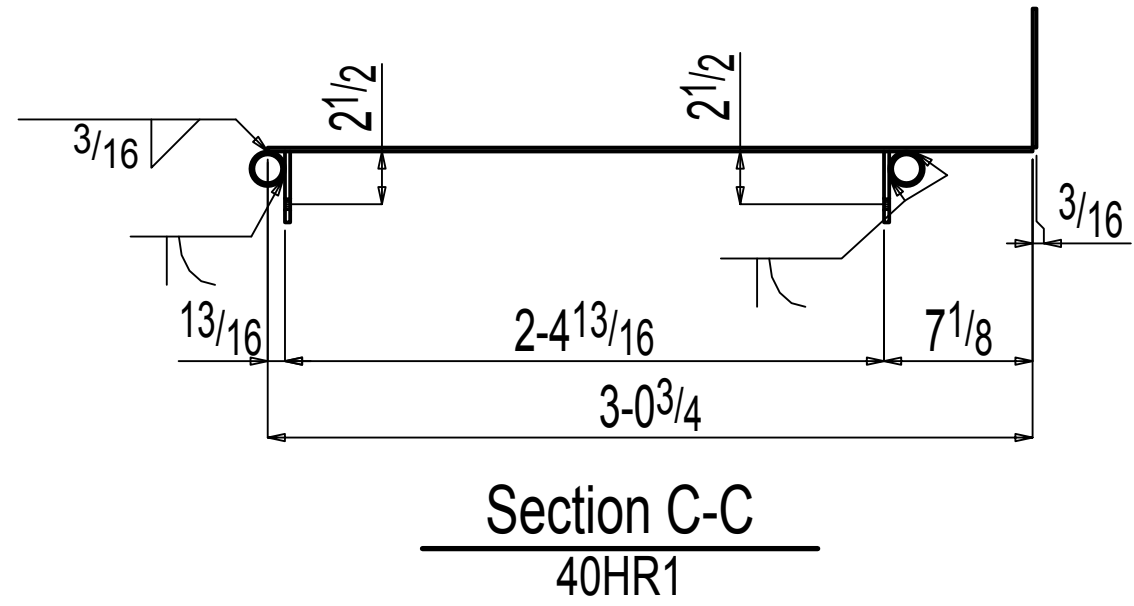
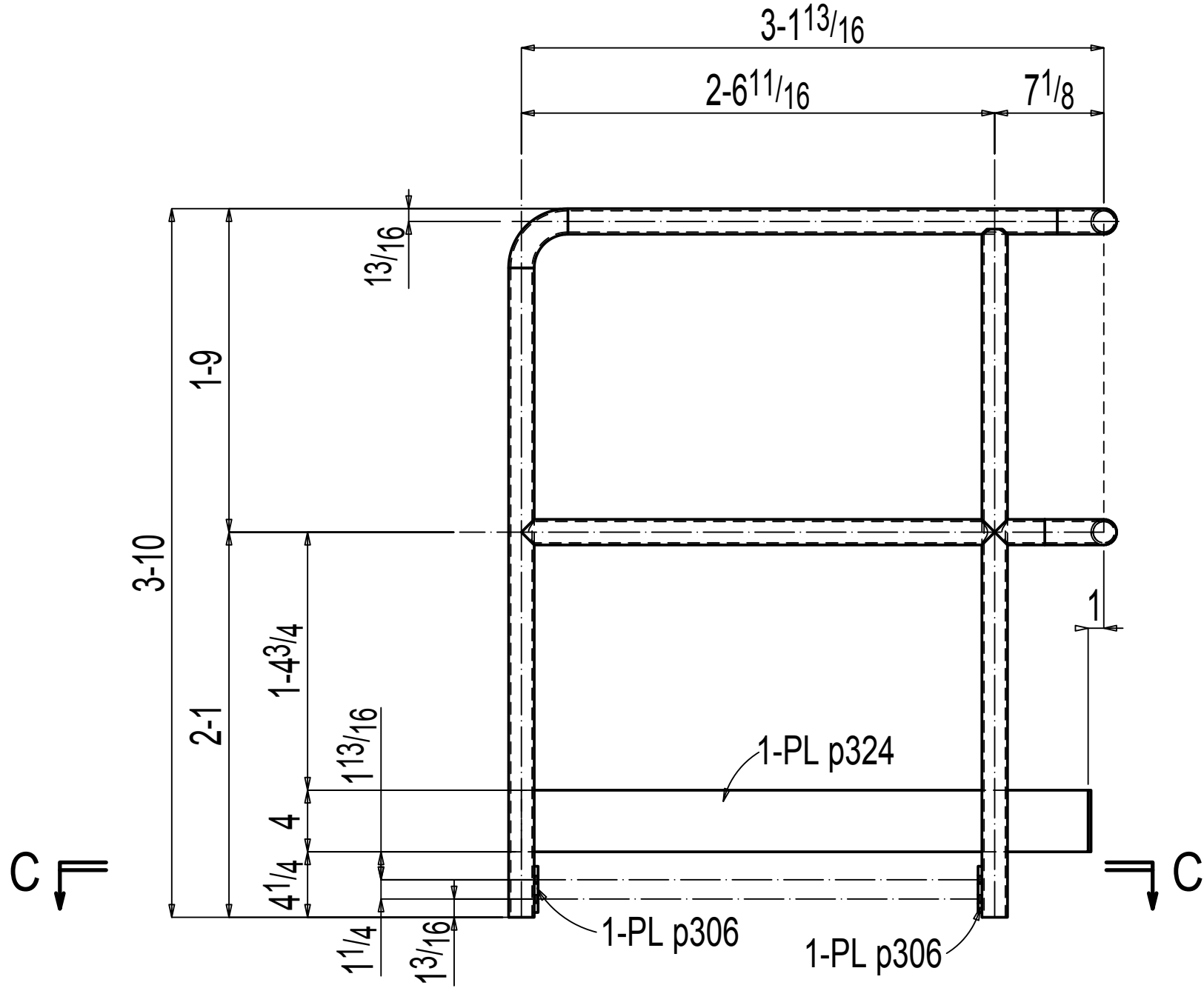
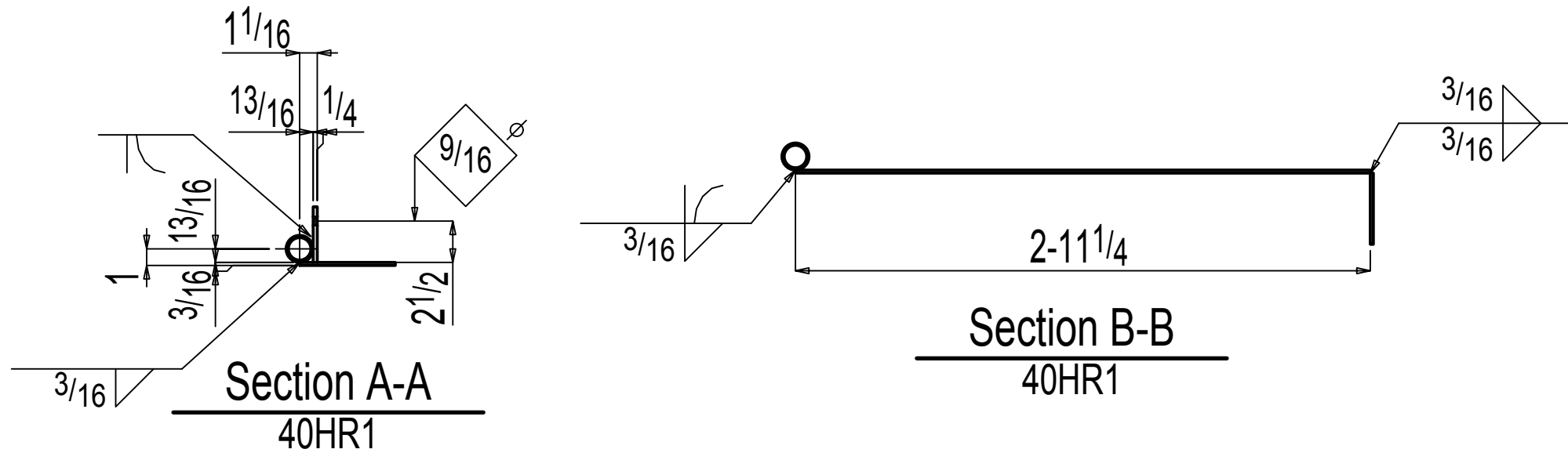
DRWN: DATE: FOR APPL: ORDER NO.:
CHKD: DATE: TO SHOP: REV. A DWG. 39



ONE HANDRAIL 40HR1



ONE HANDRAIL 40HR2



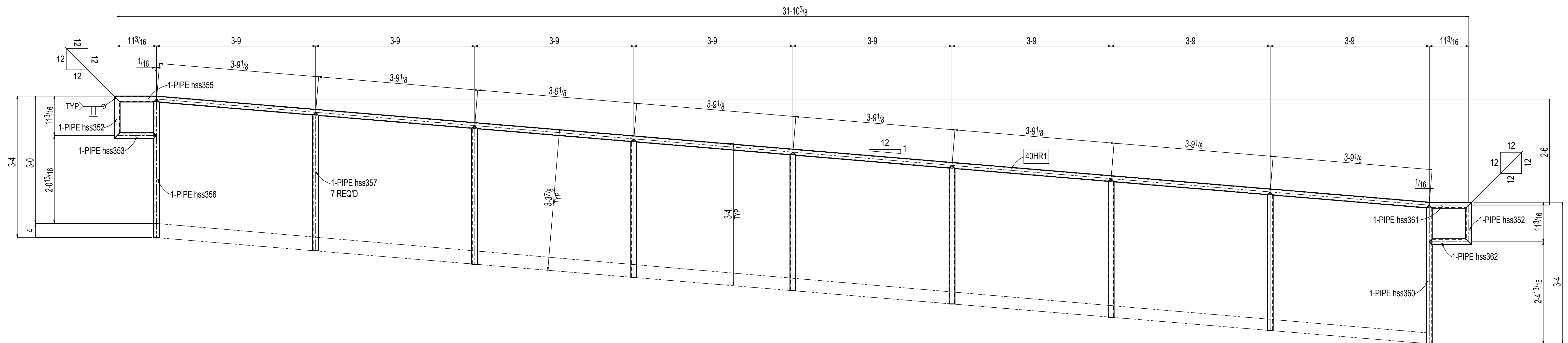
BILL OF MATERIAL					
MARK	QTY	DESCRIPTION	FT	IN	REMARKS
40HR1	ONE	Hand Rail			
40HR1	1	PIPE 1 1/4 STD	2	6 9/16	A53B
hss195	1	PIPE 1 1/4 STD	3	8 11/16	A53B
hss152	2	PIPE 1 1/4 STD	3	6 1/8	A53B
hss187	1	PIPE 1 1/4 STD	2	8 7/16	A53B
hss183	1	PIPE 1 1/4 STD	2	7 3/4	A53B
hss191	1	PIPE 1 1/4 STD	2	6 11/16	A53B
hss140	1	PIPE 1 1/4 STD	0	7 5/16	A53B
hss151	3	PIPE 1 1/4 STD	0	6 1/16	A53B
hss192	1	PIPE 1 1/4 STD	0	3 1/4	A53B
p306	3	PL 1/4x3	0	3 7/16	A572-50
p324	1	PL 3/16x4	3	0 3/4	A36
p323	1	PL 3/16x4	2	11 1/4	A36
FIELD BOLTS					
6		1/2 Dia A325N	0	1 1/2	+1HD WASH
40HR2	ONE	Hand Rail			
40HR2	1	PIPE 1 1/4 STD	2	4 9/16	A53B
hss152	2	PIPE 1 1/4 STD	3	6 1/8	A53B
hss150	1	PIPE 1 1/4 STD	2	10 5/16	A53B
hss151	2	PIPE 1 1/4 STD	0	6 1/16	A53B
p306	2	PL 1/4x3	0	3 7/16	A572-50
p325	1	PL 3/16x4	2	10 5/16	A36
FIELD BOLTS					
4		1/2 Dia A325N	0	1 1/2	+1HD WASH

SHOP NOTE:
SURFACE PREP:SSPC-SP2

HOLES: 13/16 DIA U.N.O.		FINISH: STD SHOP PRIMER	
REV	DATE	DESCRIPTION	BY
△			
△			
△			
△			
△			

CLIENT:	
ARCH & ENGR:	
JOB NAME:	
LOCATION:	
DETAIL OF:	
DATE:	DRAWN BY:
CHECKED BY:	JOB #
DWG. #	40

BILL OF MATERIAL								
NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
2	HANDRAIL				40HR1	148	297	
2	PIPE 1 1/4 STD	30	1 5/16	40HR1		68	137	A53B
2	PIPE 1 1/4 STD	3	3 1/16	hss356		7	15	A53B
14	PIPE 1 1/4 STD	3	3 1/16	hss357		7	103	A53B
2	PIPE 1 1/4 STD	3	3 1/16	hss360		7	15	A53B
2	PIPE 1 1/4 STD	1	0 1/16	hss361		2	5	A53B
2	PIPE 1 1/4 STD	1	0	hss362		2	5	A53B
2	PIPE 1 1/4 STD	1	0	hss353		2	5	A53B
2	PIPE 1 1/4 STD	1	0	hss355		2	5	A53B
4	PIPE 1 1/4 STD	1	0	hss352		2	9	A53B



2 HANDRAILS 40HR1

TOTAL WEIGHT THIS DRAWINGS:297

PART: 1-S/C PRIMER
 OPEN HOLES: 13/16" DIA (UNO) OPEN SLOTS: 13/16x1 DIA (UNO) BOLT: 3/4" DIA A325(UNO) EDGE DIST: 1 1/2"(UNO)

MATERIAL	
WIDE FLANGE	A992 (UNO)
PIPE	A53B (UNO)
TUBE	A500B (UNO)
CHANNEL	A36 (UNO)
PLATE,ANGLE,BAR	A36 (UNO)

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AUTHORIZED AND APPROVED. FAILURE
TO COMPLY WITH THIS REQUIREMENT
WILL BECOME CONTRACTORS/ERECTORS LIABILITY.
ANY QUESTIONS CALL (956) 722-4656

DATE: _____ SIGNATURE: _____

REF:E21 THRU E23

ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL.
ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED.
ALL SNIPS TO BE $3\frac{1}{2} \times 3\frac{1}{4}$ UNLESS NOTED.
ALL COPELS TO BE RADUSED.

⊗ DENOTES "CONTACT SURFACE" THIS SIDE OF PLATE.
HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS

X INDICATES LAYOUT MARK FOR FABRICATION
LH=LEFT HD=RIGHT FL=WASHER FL=WASHER
MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS
IN SAME LOCATION AS ON ERECTION DRAWING NO.

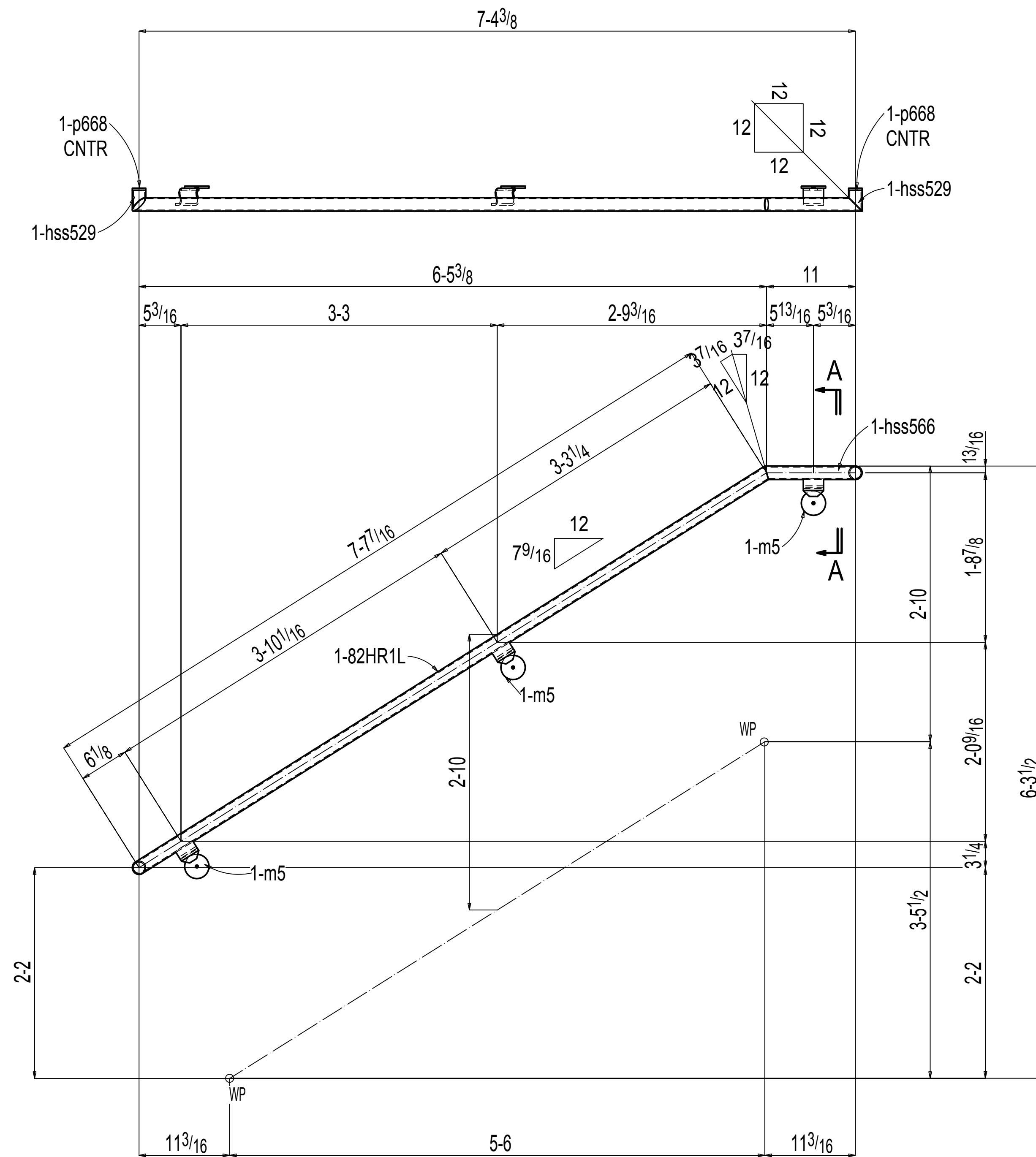
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CUSTOMER:	_____
ARCHITECT:	_____
PROJECT:	_____
LOCATION:	_____

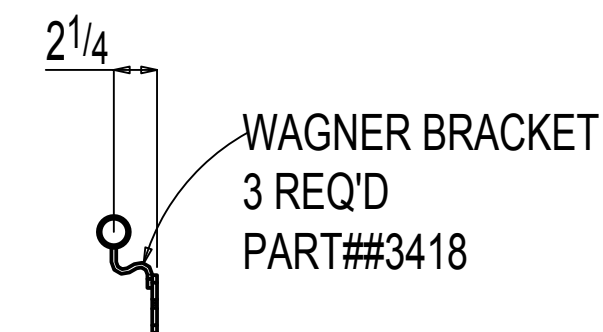
DRAWN _____ DATE _____	FOR APPL. _____	ORDER NO. _____
CHKD _____ DATE _____	TO SHOP _____	REV. <u>A</u> DWG. <u>40</u>

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BILL OF MATERIAL								
NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
ONE	WALL RAIL				82HR1	24	24	
1	PIPE 1 1/4 STD	7	8 1/2	82HR1L		17	17	A53B
1	PIPE 1 1/4 STD	1	0	hss566		2	2	A53B
2	PIPE 1 1/4 STD	0	29 1/8	hss529		0	1	A53B
3	WAGNER BRACKET			m5		1	3	WANGER#3418
2	RPL 1/2x11 1/16			p668		0	0	A36
	FIELD BOLTS							
3	3/8 Dia LAG SCREW	0	2 1/2					



ONE WALL RAIL 82HR1



Section A-A
82HR1

BILL OF MATERIAL

NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
ONE	WALL RAIL				82HR1	24	24	
1	PIPE 1 1/4 STD	7	8 1/2	82HR1L		17	17	A53B
1	PIPE 1 1/4 STD	1	0	hss566		2	2	A53B
2	PIPE 1 1/4 STD	0	2 9/16	hss529		0	1	A53B
3	WAGNER BRACKET			m5		1	3	WANGER#3418
2	RPL 1 1/4 x 1 1/8			p668		0	0	A36
	FIELD BOLTS							
3	3/8 Dia LAG SCREW	0	2 1/2					

TOTAL WEIGHT THIS DRAWINGS:38

ONE SHOP COAT OF GRAY PRIMER

PAINT: _____

OPEN HOLES: $\frac{13}{16}$ " DIA. (UNO) OPEN BOLTS: $\frac{13}{16}$ " DIA. (UNO) BOLT: $\frac{3}{4}$ " DIA. A325 (UNO) EDGE DIST. $1\frac{1}{2}$ " (UNO)

MATERIAL	
WIDE FLANGE	A992 (UNO)
PIPE	A53B (UNO)
TUBE	A500B (UNO)
CHANNEL	A36 (UNO)
PLATE,ANGLE,BAR	A36 (UNO)

[illegible]

CUSTOMER: _____
ARCHITECT: _____
PROJECT: _____
LOCATION: _____

DRWN _____ DATE _____	FOR APPL. _____	ORDER NO. _____
CHKD _____ DATE _____	TO SHOP _____	REV. _____ DWG. 82

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MODERN MACHINE SHOP, INC. WILL NOT
ACCEPT BACKCHARGES FOR CORRECTIVE
WORK OR REPLACED MATERIALS UNLESS
AUTHORIZED AND APPROVED. FAILURE
TO COMPLY WITH THIS REQUIREMENT
WILL BECOME CONTRACTORS/ERECTORS LIABILITY.
ANY QUESTIONS CALL (956) 722-4656

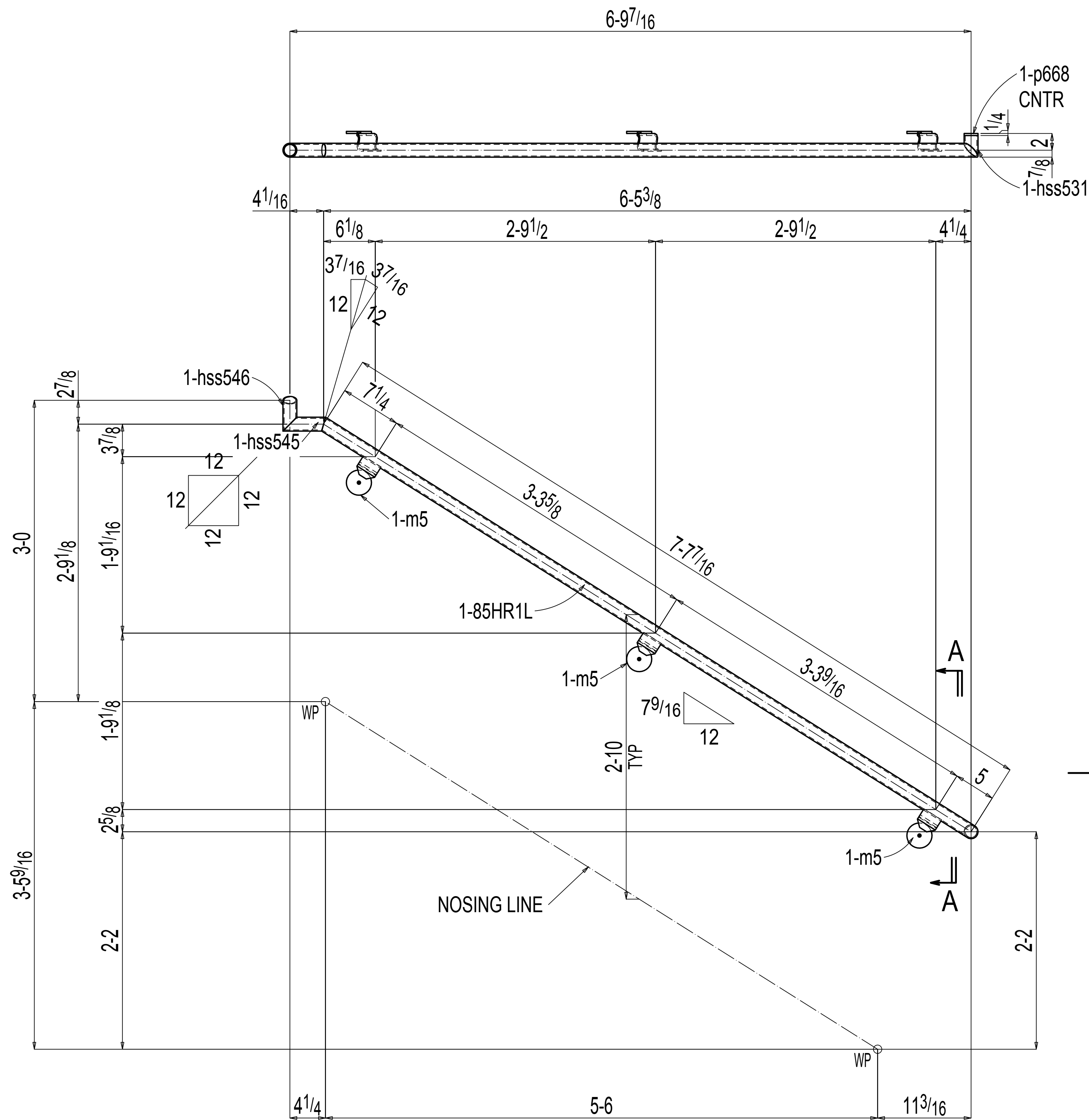
DATE: _____ SIGNATURE: _____

REF:E24 THRU E39

ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL.
ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED
ALL SNIPS TO BE $\frac{3}{4}$ X $\frac{3}{4}$ UNLESS NOTED.
ALL COPES TO BE RADIUSD.

⊗ DENOTES "CONTACT SURFACE" THIS SIDE OF PLATE
HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS
X INDICATES LAYOUT MARK FOR FABRICATION

LD=LW, DTI HD=FLT WASHER FL=WROUGHT WASHER
MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS
IN SAME LOCATION AS ON ERECTION DRAWING NO.



ONE WALL RAIL 85HR1

BILL OF MATERIAL

NO.	SECTION	FIT.	IN.	TEMP MARK	SHIPPING MARK	WEIGHT UNIT	WEIGHT TOTAL	REMARKS
ONE	WALL RAIL				85HR1	23	23	
1	PIPE 1 1/4 STD	7	8 1/2	85HR1L		17	17	A53B
1	PIPE 1 1/4 STD	0	5 1/8	hss545		1	1	A53B
1	PIPE 1 1/4 STD	0	4 1/8	hss546		1	1	A53B
1	PIPE 1 1/4 STD	0	2 9/16	hss531		0	0	A53B
3	WAGNER BRACKET			m5		1	3	WANGER#3418
1	RPL 1/4x1 1/16			p668		0	0	A36
	FIELD BOLTS							
3	3/8 Dia LAG SCREW	0	2 1/2					

TOTAL WEIGHT THIS DRAWINGS:23

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NOTICE TO CONTRACTORS AND/OR ERECTORS
MODERN MACHINE SHOP, INC. WILL NOT ACCEPT BACKCHARGES FOR CORRECTIVE WORK OR REPLACED MATERIALS UNLESS AUTHORIZED AND APPROVED. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL BECOME CONTRACTORS/ERECTORS LIABILITY.
ANY QUESTIONS CALL (561) 722-4656
DATE: _____ SIGNATURE: _____

REF:E24 THRU E39

ALL RUNNING DIMENSIONS FROM END OF MAIN MATERIAL.
ALL VERTICAL SPACING OF HOLES TO BE 3" UNLESS NOTED.
ALL SNIPS TO BE 1/4" X 1/4" UNLESS NOTED.
ALL COPIES TO BE RADIIUSED.
X DENOTES "CONTACT SURFACE" THIS SIDE OF PLATE.
HOLES IN END PLATES AND OUTSTANDING LEGS OF END CLIPS
X INDICATES LAYOUT MARK FOR FABRICATION
LD=LIN(DT) HD=H(LT) W=H(W) T=H(W) W=H(W) T=H(W)
MEMBERS ARE TO BE ERECTED SO THAT MARKED END IS IN SAME LOCATION AS ON ERECTION DRAWING NO.

MATERIAL	
WIDE FLANGE	A992 (UNO)
PIPE	A53B (UNO)
TUBE	A500B (UNO)
CHANNEL	A36 (UNO)
PLATE/ANGLE/BAR	A36 (UNO)

PAINT: ONE SHOP COAT OF GRAY PRIMER
OPEN HOLES: 1/8" DIA (UNO) OPEN BOLTS: 1/8" DIA (UNO) BOLT: 3/4" DIA A36 (UNO) EDGE DIST: 1 1/2" (UNO)

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CUSTOMER: _____
ARCHITECT: _____
PROJECT: _____
LOCATION: _____

DRWN: _____ DATE: _____ FOR APPL: _____ ORDER NO. _____
CHKD: _____ DATE: _____ TO SHOP: _____ REV. _____ A _____ DWG. _____ 85