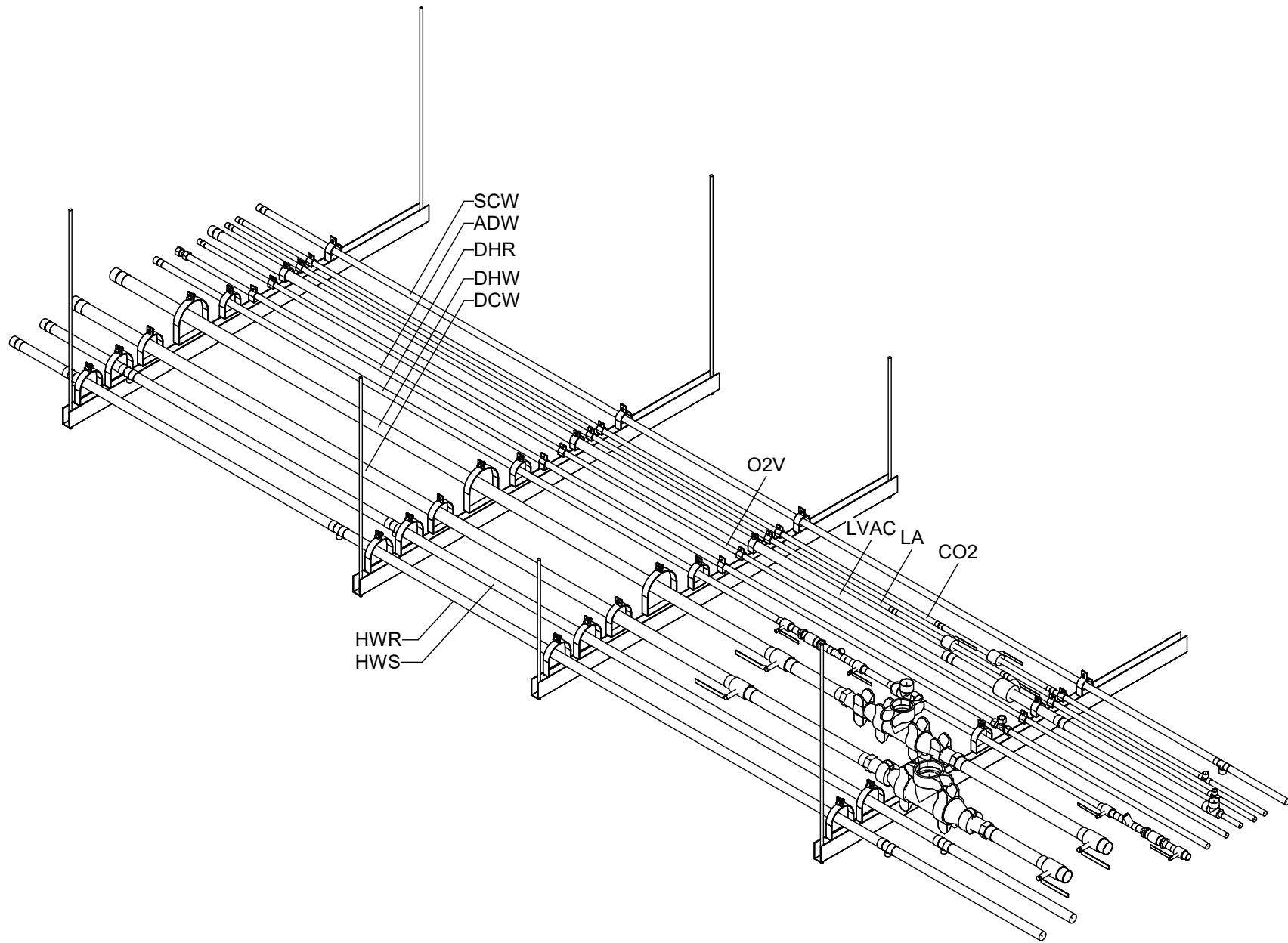
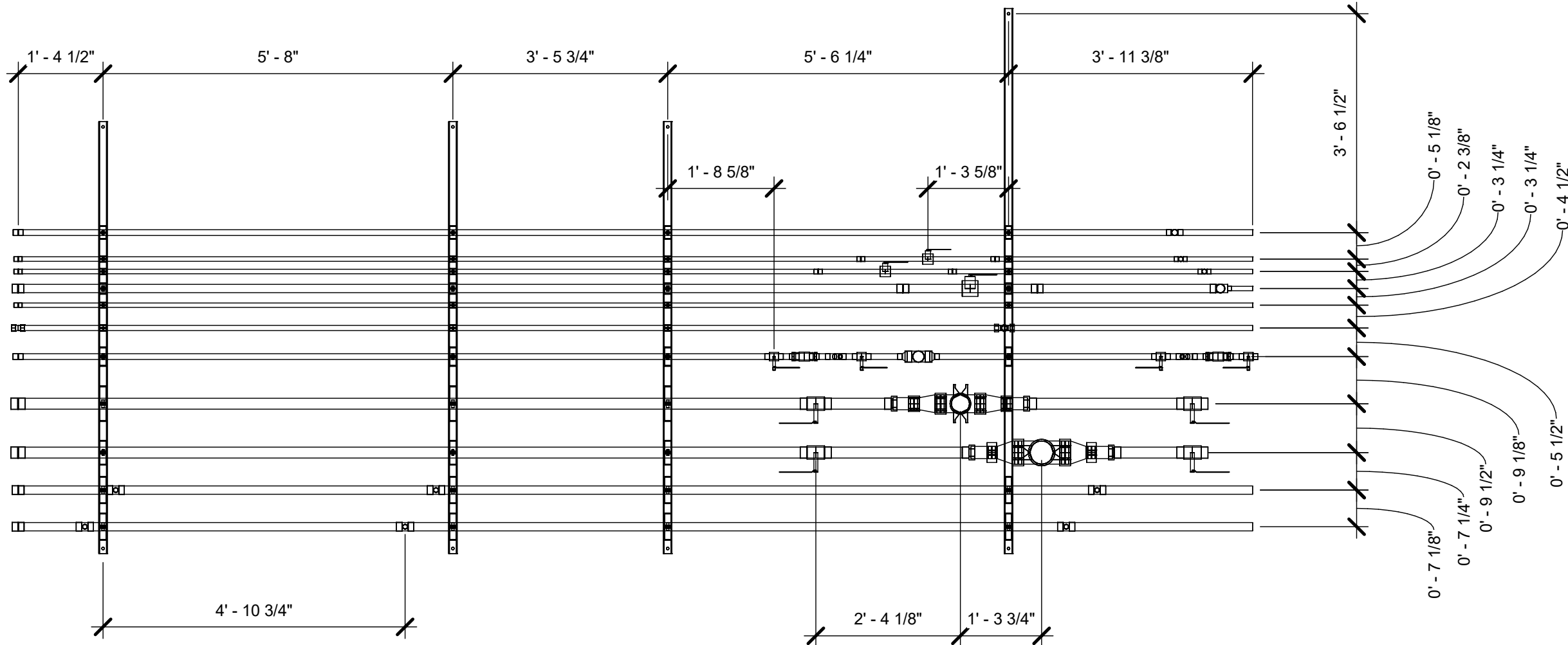


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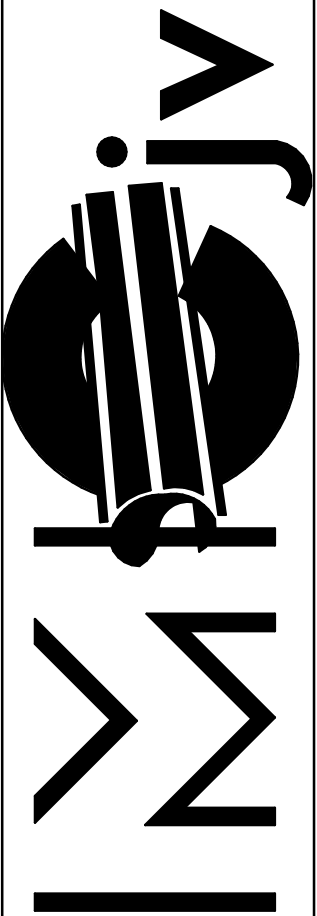


2 AS-L00-018 - ISOMETRIC
AS-L00-018 SCALE:



1 AS-L00-018
AS-L00-018 SCALE: 1/2" = 1'-0"

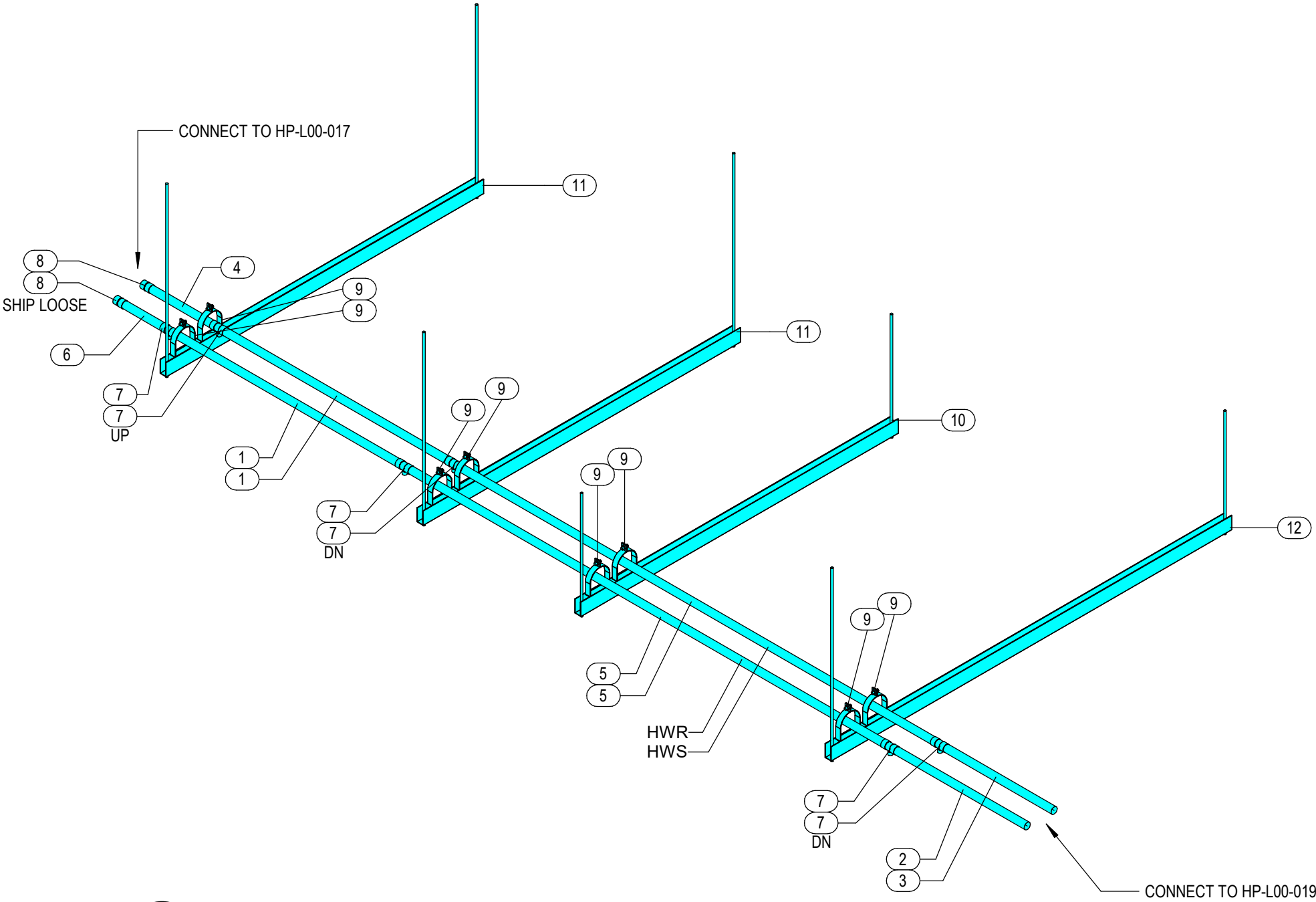
A1	A3	B1	B3
A2	A4	B2	B4



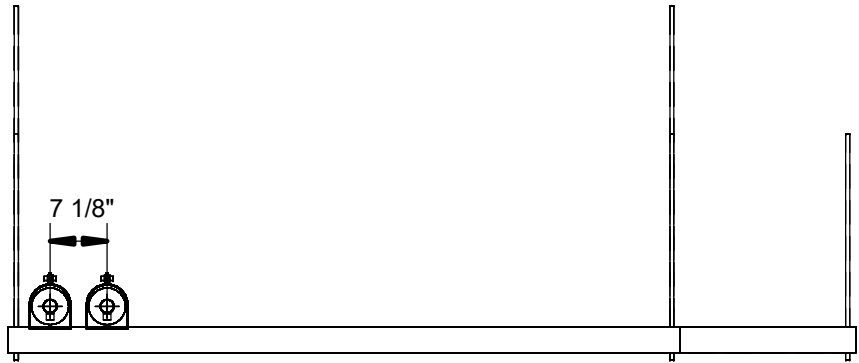
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JOB: WASH U NRB	Drawn By: Author	DATE REQ:
TICKET: AS-L00-018	DATE: 03/11/21	

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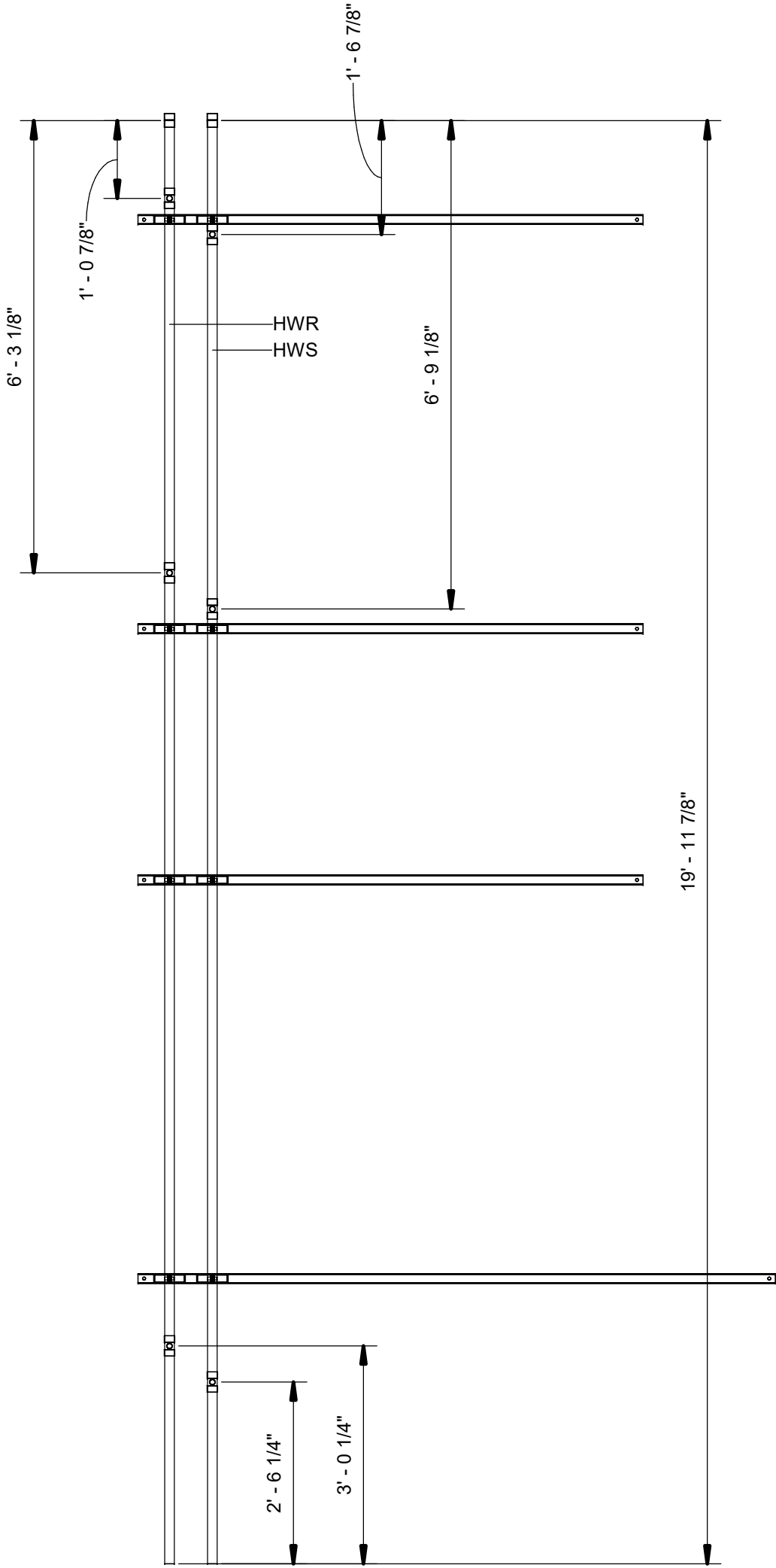


1 ISOMETRIC
SCALE:



3 FRONT ELEVATION
SCALE: 1/2" = 1'-0"

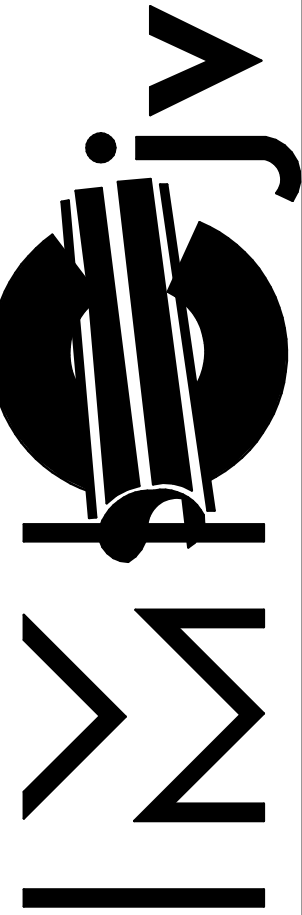
Mark	Qty	Size	Description	Length	Strut Width	Rod 1 Length	Rod 2 Length
1	2	1 1/2"	Cerro Type K Hard Copper Pipe	5'-1 1/16"			
2	1	1 1/2"	Cerro Type K Hard Copper Pipe	2'-11 5/8"			
3	1	1 1/2"	Cerro Type K Hard Copper Pipe	2'-5 5/8"			
4	1	1 1/2"	Cerro Type K Hard Copper Pipe	1'-6 5/16"			
5	2	1 1/2"	Cerro Type K Hard Copper Pipe	10'-7 5/16"			
6	1	1 1/2"	Cerro Type K Hard Copper Pipe	1'-0 5/16"			
7	6	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee				
8	2	1 1/2"	Nibco Wrot 600 Dimpled Stop Coupling CxC				
9	8	4.5"	B-Line B2000 ZN Sch 40 Pipe Clamp				
10	1	80"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		7' - 0"	2' - 4 1/4"	2' - 4 1/4"
11	2	80"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		7' - 0"	3' - 8 1/4"	3' - 8 1/4"
12	1	102"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut		8' - 10"	3' - 8 1/4"	2' - 4 1/4"



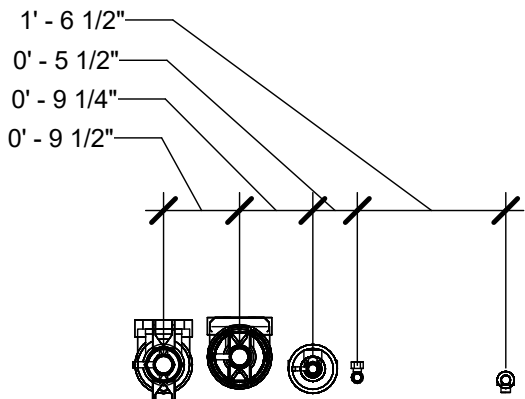
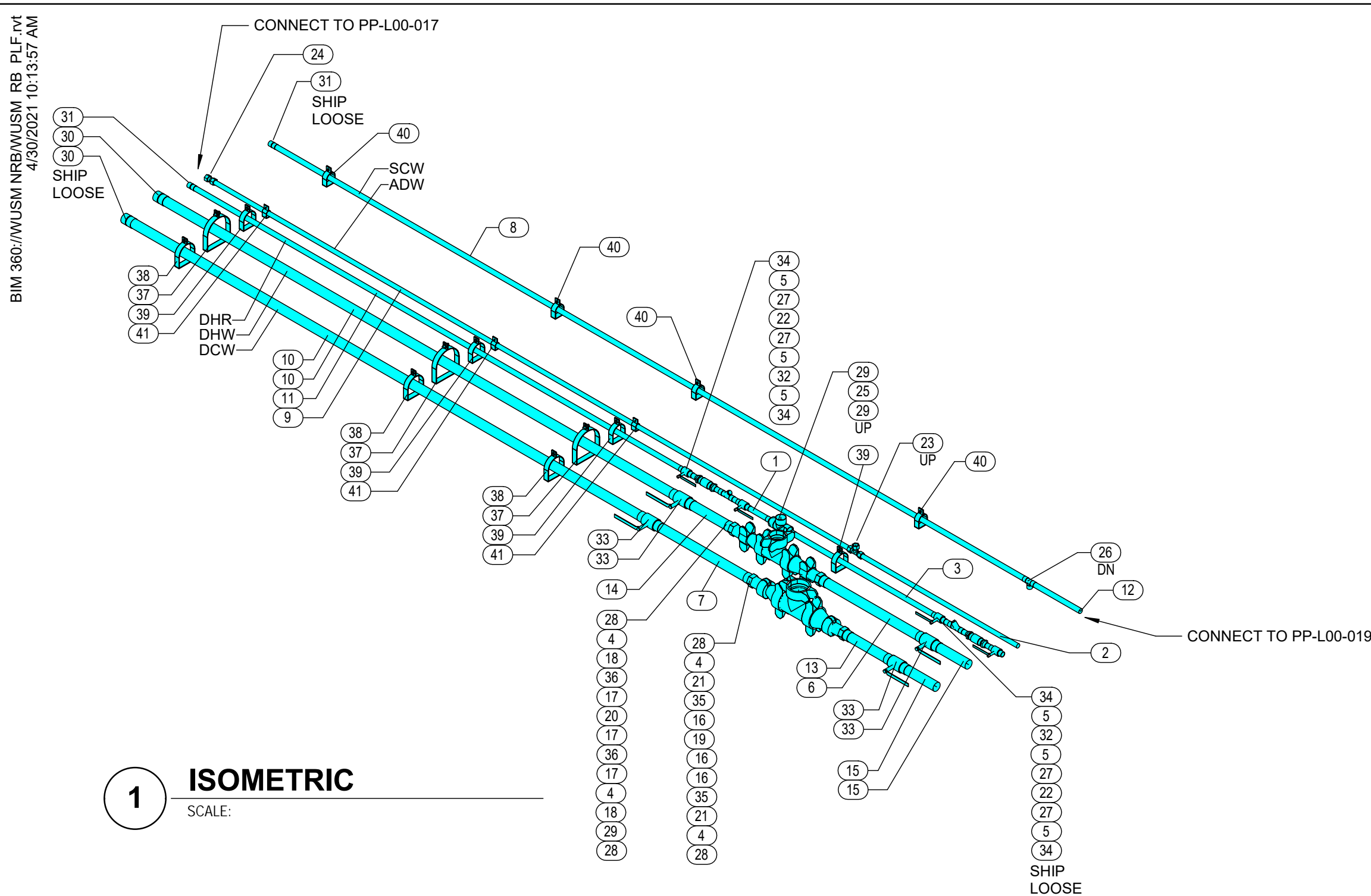
2 TOP VIEW
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

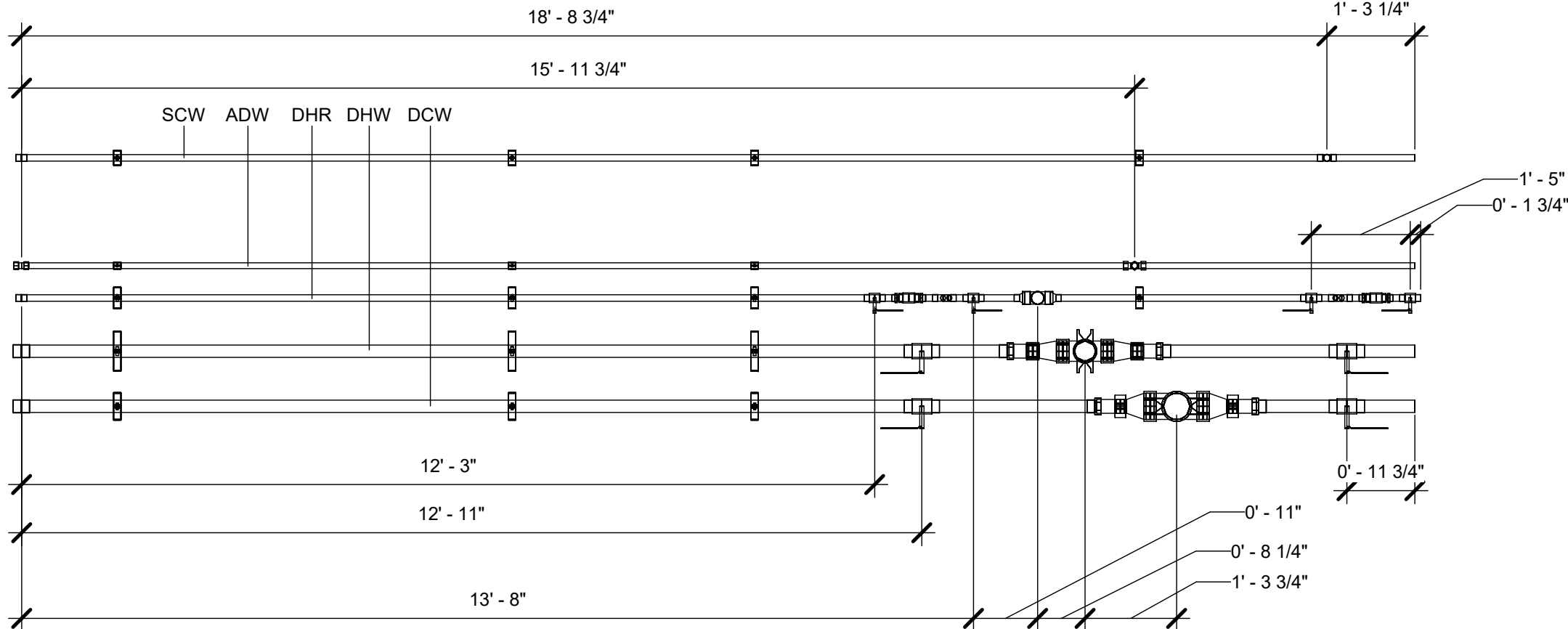
JOB: WASH U NRB
TICKET: HP-L00-018
Drawn By: Author
DATE: 04/13/21
DATE REQ:



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3 FRONT ELEVATION
SCALE: 1/2" = 1'-0"

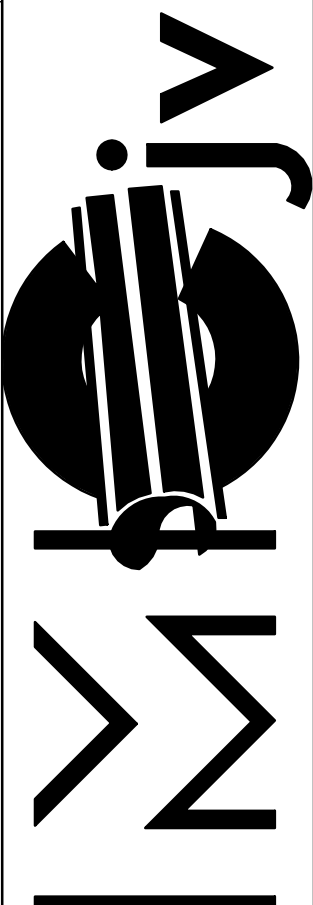


2 TOP VIEW
SCALE: 1/2" = 1'-0"

Mark	Qty	Size	Description	Length
1	1	1"	Cerro Type L Hard Copper Pipe	0'-7"
2	1	1"	Swagelok SS316L 065 Wall Compression Seamless Tubing	3'-11 9/16"
3	1	1"	Cerro Type L Hard Copper Pipe	3'-7 1/8"
4	4	2"	Victaulic CF Nip No 47 GT	0'-4"
5	6	1"	Cerro Type L Hard Copper Pipe	0'-3"
6	1	2"	Cerro Type L Hard Copper Pipe	2'-6"
7	1	2"	Cerro Type L Hard Copper Pipe	2'-4 1/8"
8	1	1"	Cerro Type L Hard Copper Pipe	18'-8 1/16"
9	1	1"	Swagelok SS316L 065 Wall Compression Seamless Tubing	15'-10 15/16"
10	2	2"	Cerro Type L Hard Copper Pipe	12'-9 5/16"
11	1	1"	Cerro Type L Hard Copper Pipe	12'-2"
12	1	1"	Cerro Type L Hard Copper Pipe	1'-2 7/16"
13	1	2"	Cerro Type L Hard Copper Pipe	1'-1 9/16"
14	1	2"	Cerro Type L Hard Copper Pipe	1'-1"
15	2	2"	Cerro Type L Hard Copper Pipe	0'-10"
16	3	4"	Victaulic Style 107N QuickVic EHP Pnt Rigid Cpl	
17	3	3"	Victaulic Style 107N QuickVic EHP Pnt Rigid Cpl	
18	2	2"	Victaulic Style 107N QuickVic EHP Pnt Rigid Cpl	
19	1	4"	Victaulic Sch 10S 316L A-403 GRV Tee No 420-SS	
20	1	3"	Victaulic Sch 10S 316L A-403 GRV Tee No 420-SS	
21	2	2"	Victaulic GRV 316 Rigid Cplg Style 489	
22	2	1"	Therm-Omega Circuit Solver TRV - FPT	
23	1	1"	Swagelok SS316 Compression Union Tee	
24	1	1"	Swagelok SS316 Compression Union Coupling	
25	1	2"	Nibco Wrot 611 CxCxC Tee	
26	1	1"	Nibco Wrot 611 CxCxC Tee	
27	4	1"	Nibco Wrot 604 Adapter CxM	
28	4	2"	Nibco Wrot 603 Adapter CxF	
29	2	2"x1"	Nibco Wrot 600-2 Flg Red FTGxC	
30	2	2"	Nibco Wrot 600 Dimpled Stop Coupling CxC	
31	2	1"	Nibco Wrot 600 Dimpled Stop Coupling CxC	
32	2	1"	Nibco S-413-Y-LF Brz 200psi Horiz Swing Check Valve Sdr	
33	4	2"	Apollo 77CLF-140 LF-Brz 2pc FP SS-B&S Ball Valve Swt	
34	4	1"	Apollo 77CLF-140 LF-Brz 2pc FP SS-B&S Ball Valve Swt	
35	2	4"x2"	Victaulic Sch 10S 316L A-403 GRV Conc Red No 450-SS	
36	2	3"x2"	Victaulic Sch 10S 316L A-403 GRV Conc Red No 450-SS	
37	3	6"	B-Line B2000 ZN Sch 40 Pipe Clamp	
38	3	4"	B-Line B2000 ZN Sch 40 Pipe Clamp	
39	4	3"	B-Line B2000 ZN Sch 40 Pipe Clamp	
40	4	2"	B-Line B2000 ZN Sch 40 Pipe Clamp	
41	3	0.75"	B-Line B2000 ZN Sch 40 Pipe Clamp	

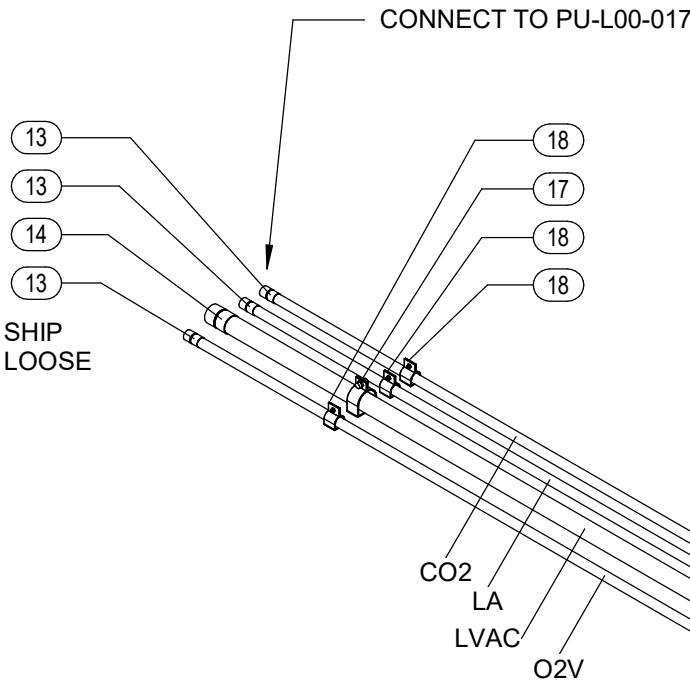
A1	A3	B1	B3
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JOB: WASH U NRB
TICKET: PP-L00-018
Drawn By: Author
DATE: 04/02/21

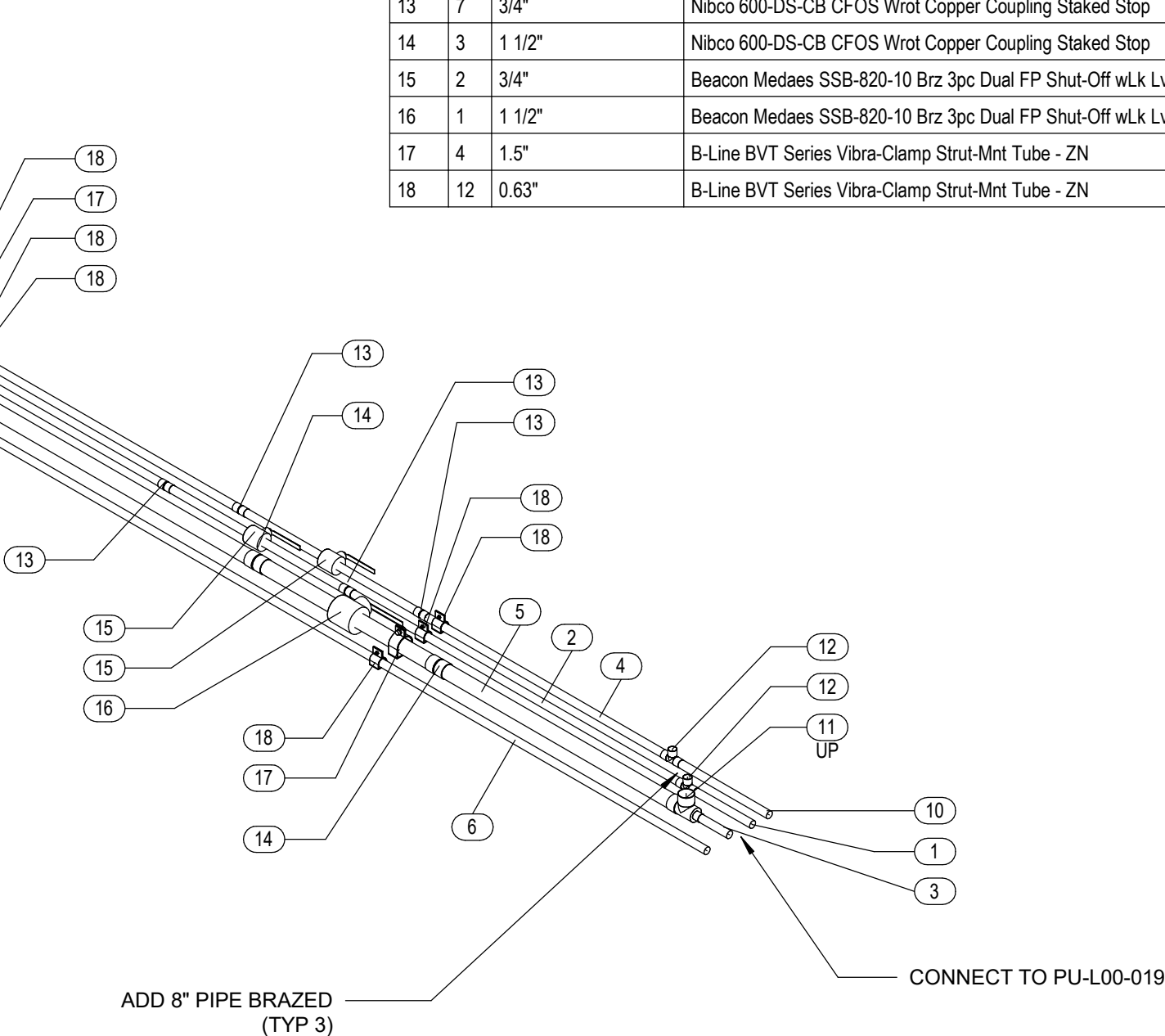


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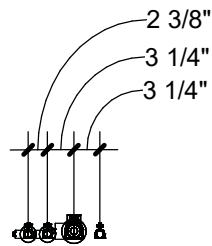


Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
1	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-8 7/8"				
2	1	3/4"	Cerro Type L Hard Copper - CFOS	4'-0 7/16"				
3	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-4 7/8"				
4	1	3/4"	Cerro Type L Hard Copper - CFOS	2'-11 1/2"				
5	1	1 1/2"	Cerro Type L Hard Copper - CFOS	2'-10 5/8"				
6	1	3/4"	Cerro Type L Hard Copper - CFOS	19'-11 7/8"				
7	1	1 1/2"	Cerro Type L Hard Copper - CFOS	14'-3 7/8"				
8	1	3/4"	Cerro Type L Hard Copper - CFOS	13'-7 3/4"				
9	1	3/4"	Cerro Type L Hard Copper - CFOS	12'-11 3/8"				
10	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-1 7/16"				
11	1	1 1/2"x3/4"x1 1/2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee					
12	2	3/4"	Nibco 611-CB CFOS Wrot Copper Tee					
13	7	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					
14	3	1 1/2"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					
15	2	3/4"	Beacon Medaes SSB-820-10 Brz 3pc Dual FP Shut-Off wLk Lvr Valve					
16	1	1 1/2"	Beacon Medaes SSB-820-10 Brz 3pc Dual FP Shut-Off wLk Lvr Valve					
17	4	1.5"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"	0"	0"	
18	12	0.63"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN		0"	0"	0"	



1 ISOMETRIC

SCALE:

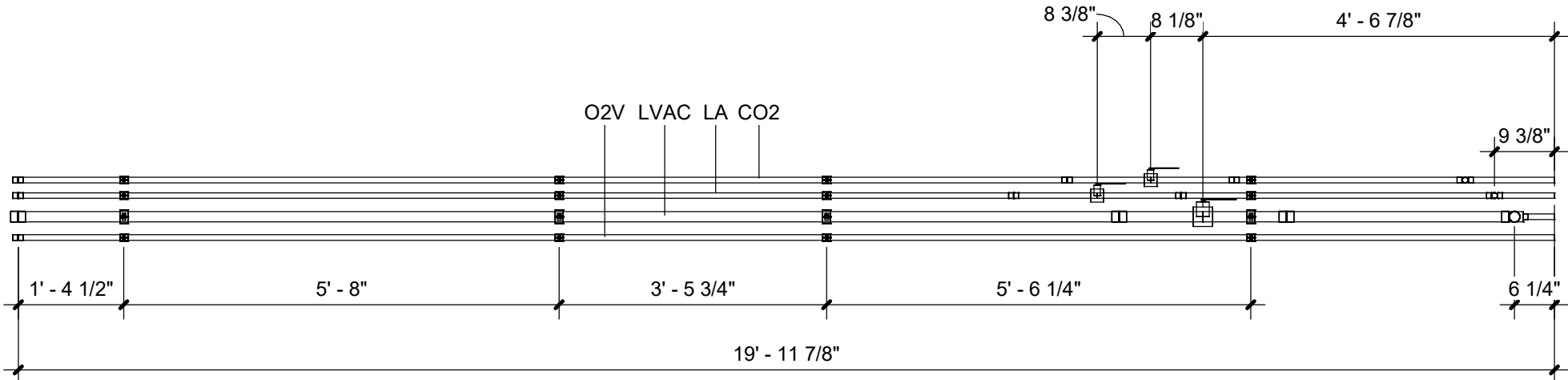


3 LEFT ELEVATION

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

2 TOP VIEW

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



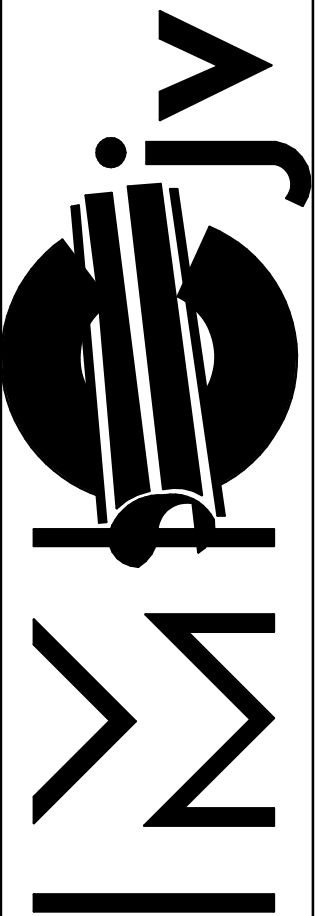
JOB: WASH U NRB

TICKET: PU-L00-018

Drawn By: Author

DATE REQ: 04/15/21

A1	A3	B1	B3
A2	A4	B2	B4



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