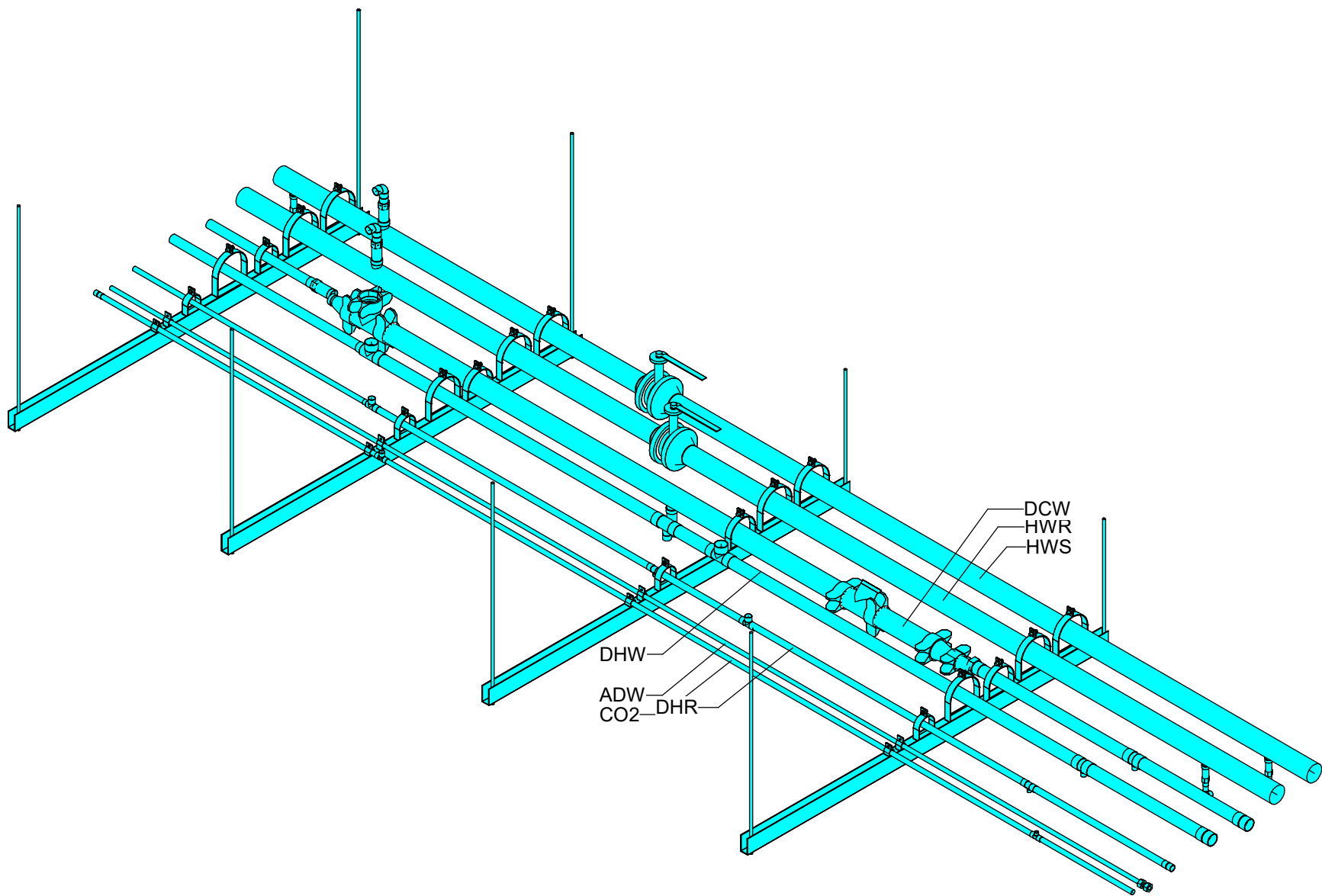
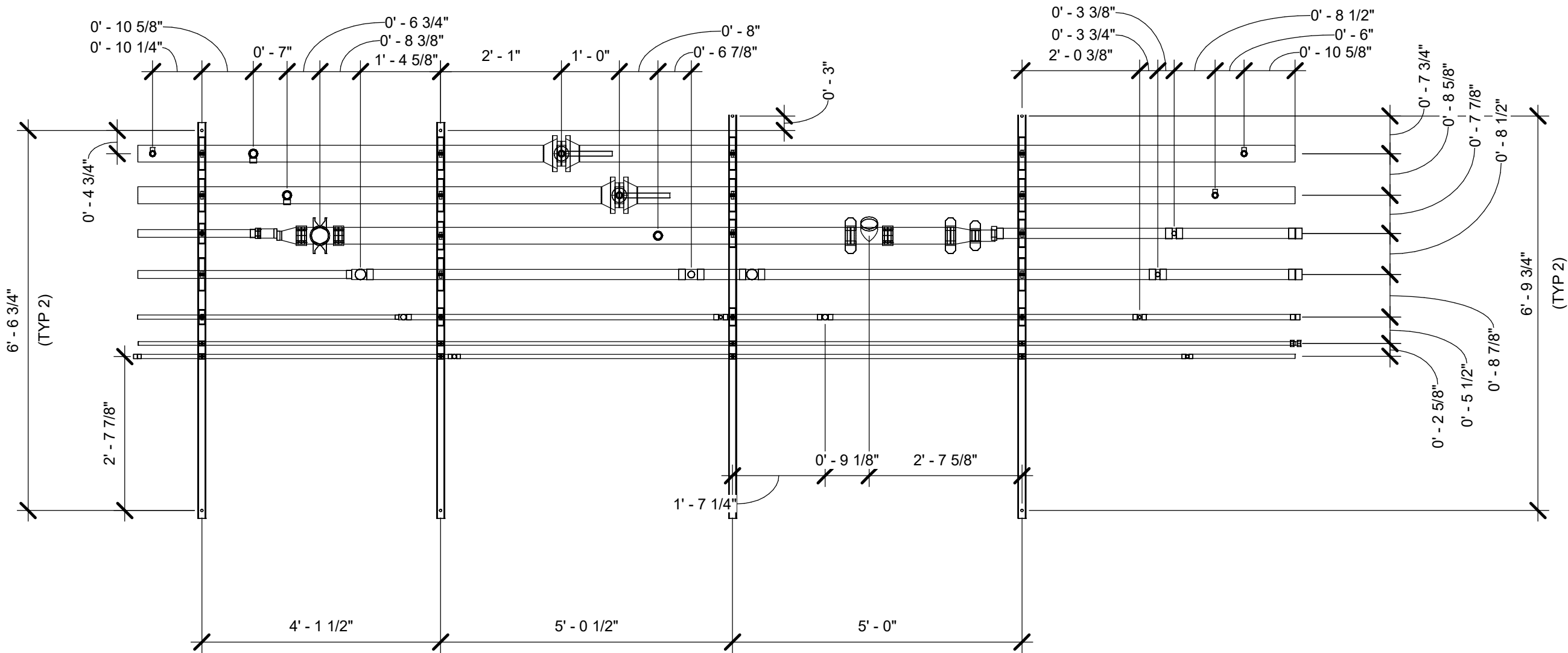


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2 AS-L00-013 - ISOMETRIC  
AS-L00-013 SCALE:



1 AS-L00-013  
AS-L00-013 SCALE: 1/2" = 1'-0"

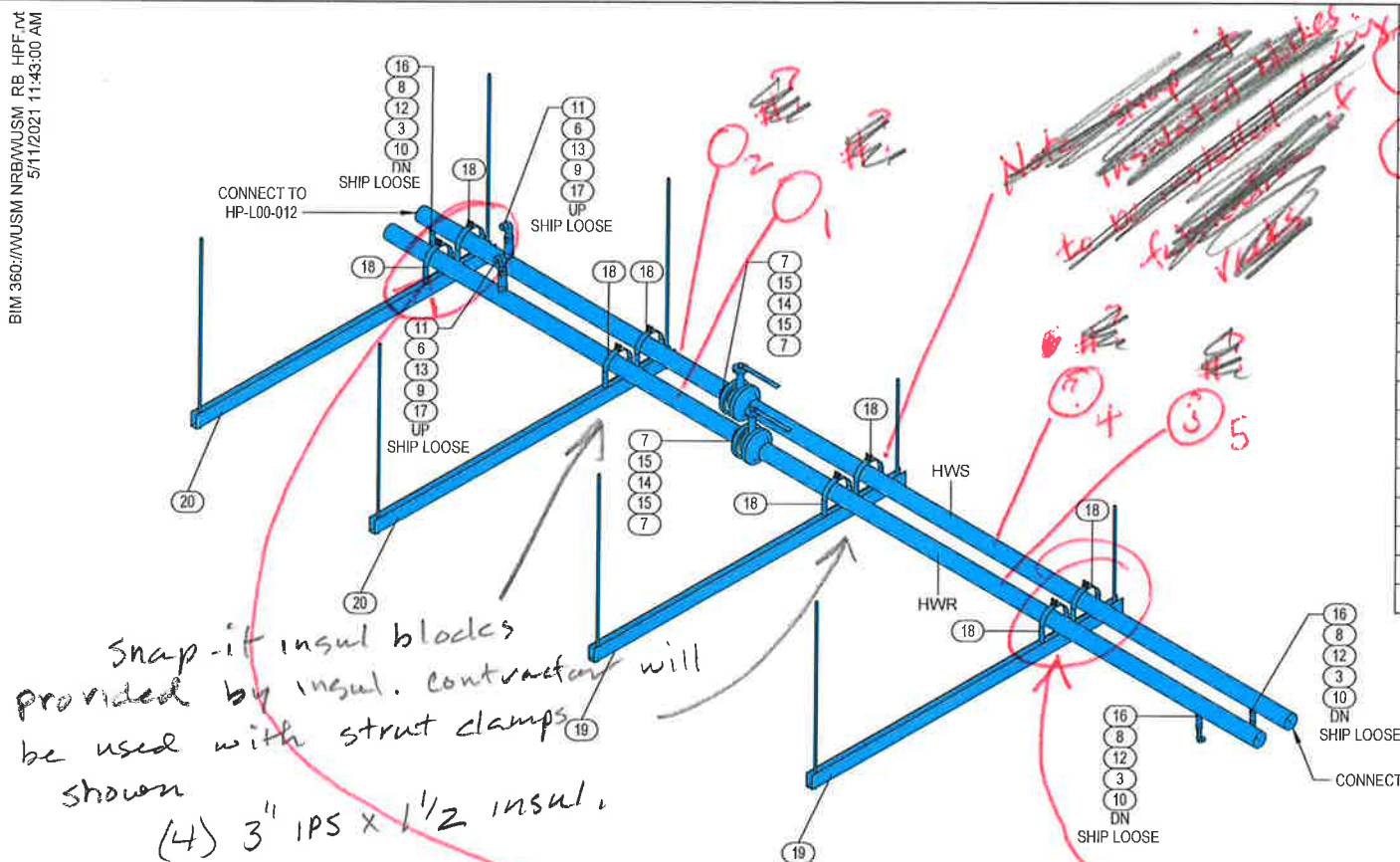
A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB  
TICKET: AS-L00-013  
Drawn By: Author  
DATE: 03/11/21  
DATE REQ:



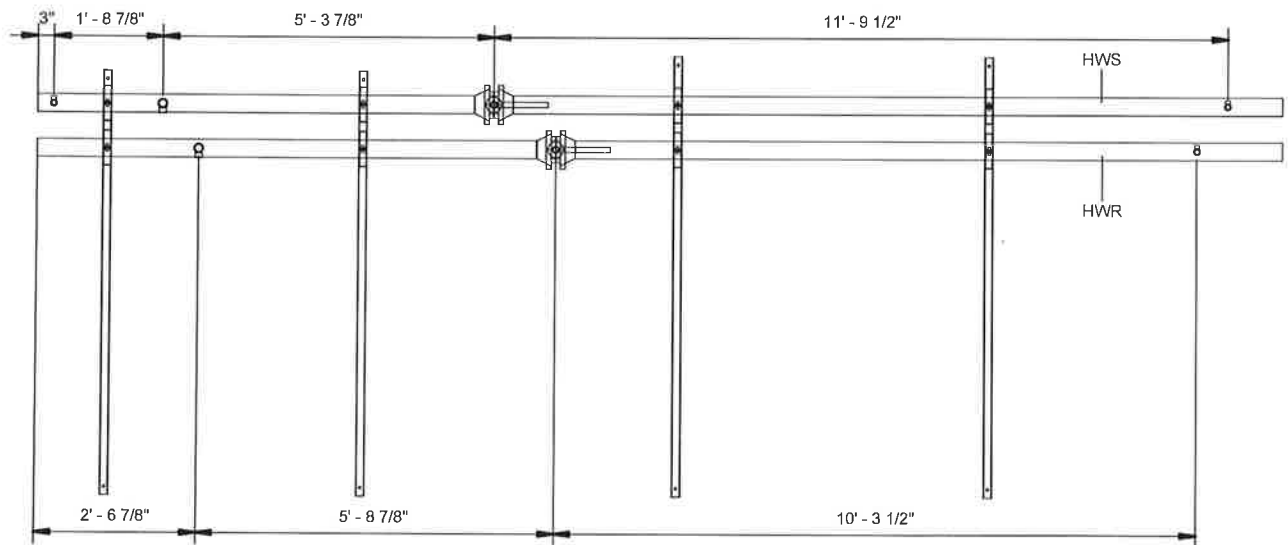
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Mark	Qty	Size	Description	Length	Strut Width	Rod 1 Length	Rod 2 Length
1	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	8'-0 1/16"			
2	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	7'-0 1/16"			
3	3	3/4"	Cerro Type K Hard Copper Pipe	0'-2 9/16"			
4	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	12'-4 5/16"			
5	1	3"	Chicago Area Sch 40 SA-53B CS ERW Pipe PE	11'-4 5/16"			
6	2	1 1/4"	Cerro Type K Hard Copper Pipe	0'-2"			
7	4	3"	Weldbend 150lb Rf Sch 40 Bore SA105 CS WN Flg				
8	3	3/4"	Victaulic No.647 TT Dielectric Transition Fitting				
9	2	1 1/4"	Victaulic No.647 TT Dielectric Transition Fitting				
10	3	3/4"	Nibco Wrot 607 90 Deg Ell CxC				
11	2	1 1/4"	Nibco Wrot 607 90 Deg Ell CxC				
12	3	3/4"	Nibco Wrot 603 Adapter CxF				
13	2	1 1/4"	Nibco Wrot 603 Adapter CxF				
14	2	3"	Nibco N200235 Butterfly Valve				
15	4	3"	Generic 150lb CS Flange Cap Screw Set				
16	3	3"x3/4"	Anvil 3000# FS Thread-O-Let				
17	2	3"x1 1/4"	Anvil 3000# FS Thread-O-Let				
18	8	6"	B-Line B2000 ZN Sch 40 Pipe Clamp				
19	2	79 3/4"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut	7' - 1"		3' - 8 3/8"	2' - 2 3/8"
20	2	76 3/4"	B-Line 1-5/8 GLV 12GA Bk/Bk 2in Slotted Unistrut	6' - 10"		3' - 9"	3' - 9"

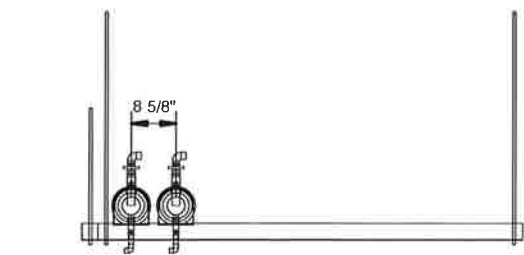
1 ISOMETRIC  
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

Klo-sure clamps 3" nom. x 1 1/2 insul.  
Note that on some clamps to be used on the end of each pipe rack for the insulated pipe during shipment and will be changed during installation of racks to job site  
(4) 3" nom. x 1 1/2 insul.



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

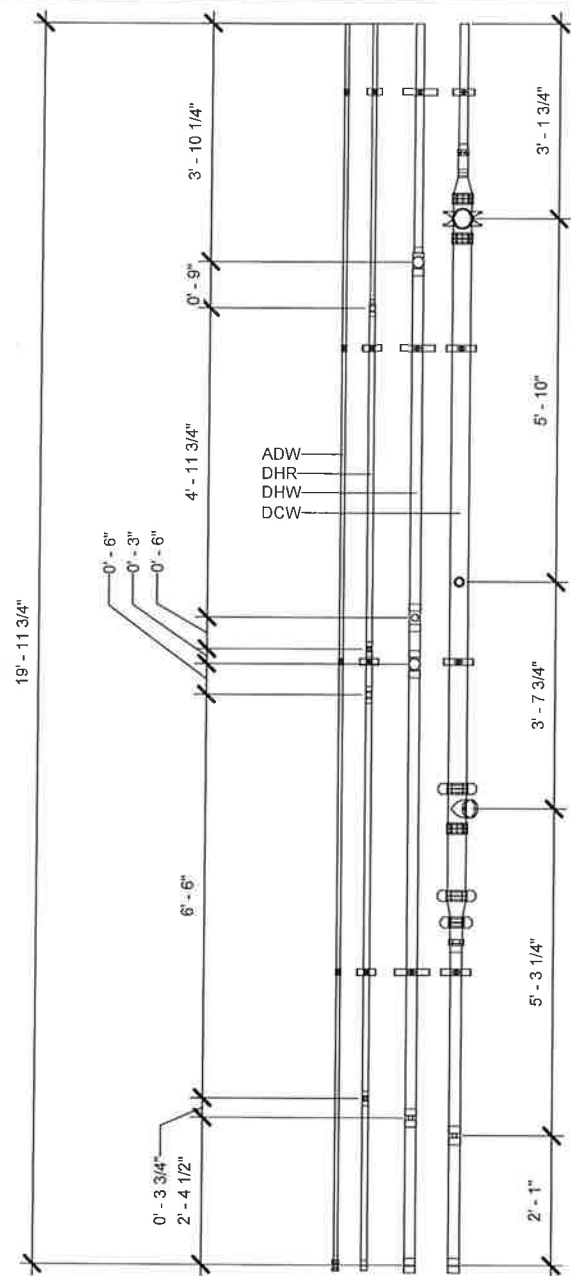


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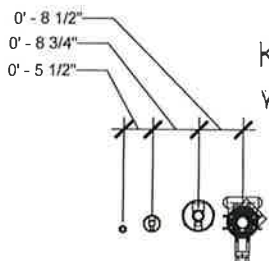
JOB: WASH U NRB  
TICKET: HP-L00-013  
Drawn By: Author  
DATE: 05/11/21



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

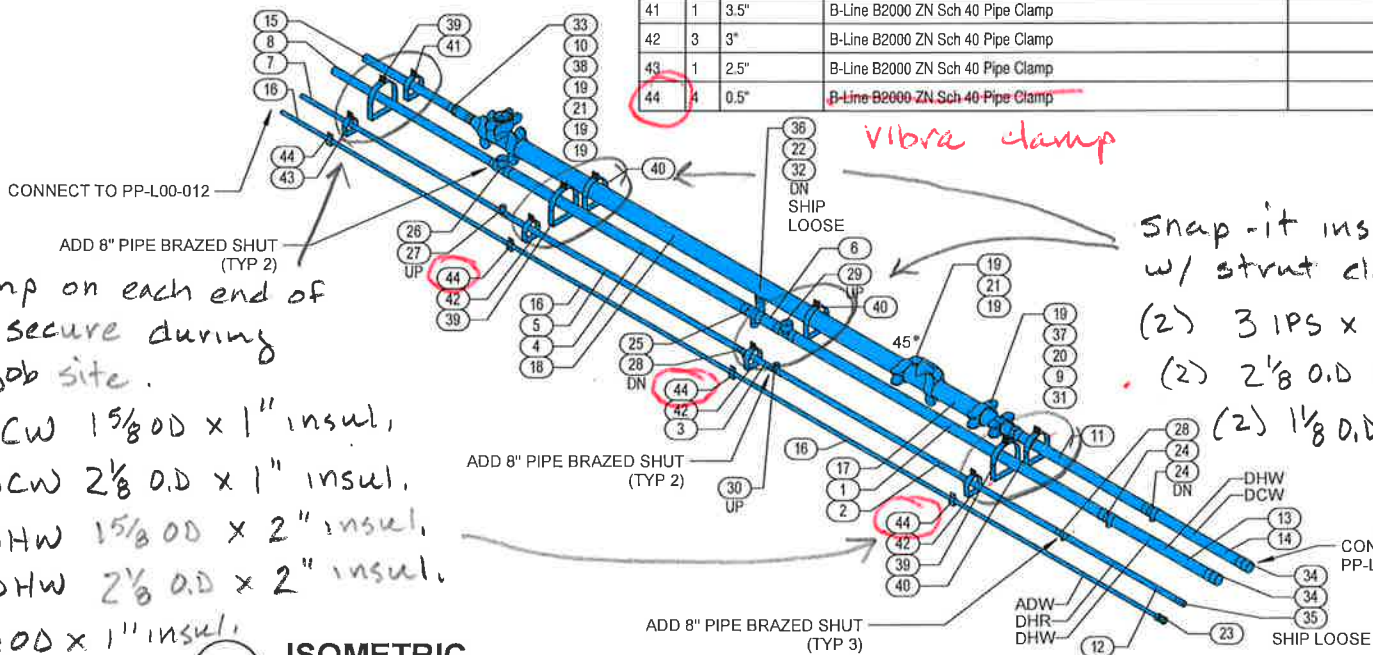


3 FRONT ELEVATION  
SCALE: 1/2" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

Klo-sure clamp on each end of rack used to secure during shipment to job site.

- (1) DCW 1 5/8 O.D x 1" insul.
- (1) DCW 2 1/8 O.D x 1" insul.
- (1) DHW 1 5/8 O.D x 2" insul.
- (1) DHW 2 1/8 O.D x 2" insul.
- (1) DHR 7/8 O.D x 1" insul.
- (1) DHR 1 1/8 O.D x 1" insul.



1 ISOMETRIC  
SCALE:

Mark	Qty	Size	Description	Length	Strut Width	Rod 1 Length	Rod 2 Length
1	1	2"	Cerro Type L Hard Copper Pipe	7'-2"			
2	1	1"	Cerro Type L Hard Copper Pipe	6'-5"			
3	1	1"	Cerro Type L Hard Copper Pipe	0'-7 5/8"			
4	1	2"	Cerro Type L Hard Copper Pipe	5'-6"			
5	1	1"	Cerro Type L Hard Copper Pipe	5'-4 9/16"			
6	1	2"	Cerro Type L Hard Copper Pipe	0'-6 7/16"			
7	1	3/4"	Cerro Type L Hard Copper Pipe	4'-6 1/8"			
8	1	1 1/2"	Cerro Type L Hard Copper Pipe	3'-8 3/8"			
9	1	2"	Victaulic CF Nip No 47 GT	0'-4"			
10	1	1 1/2"	Victaulic CF Nip No 47 GT	0'-4"			
11	1	2"	Cerro Type L Hard Copper Pipe	3'-0 5/16"			
12	1	1"	Cerro Type L Hard Copper Pipe	2'-7 11/16"			
13	1	2"	Cerro Type L Hard Copper Pipe	2'-4"			
14	1	2"	Cerro Type L Hard Copper Pipe	2'-0 5/8"			
15	1	1 1/2"	Cerro Type L Hard Copper Pipe	2'-0 3/8"			
16	1	3/4"	Swagelok SS316L 065 Wall Compression Seamless Tubing	19'-11 13/16"			
17	1	3"	Brismet Sch 10S A312 EFW 304 PIPE	1'-0 7/8"			
18	1	3"	Brismet Sch 10S A312 EFW 304 PIPE	8'-10"			
19	6	3"	Victaulic Style 107N QuickVic EHP Pnt Rigid Cpl				
20	1	2"	Victaulic Style 107N QuickVic EHP Pnt Rigid Cpl				
21	2	3"	Victaulic Sch 10S 316L A-403 GRV Tee No 420-SS				
22	1	1 1/4"	Victaulic No.647 TT Dielectric Transition Fitting				
23	1	3/4"	Swagelok SS316 Compression Union Coupling				
24	2	2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee				
25	1	2"x1 1/4"	Nibco Wrot 611R CxCxC Reducing Tee				
26	1	2"x1 1/2"x2"	Nibco Wrot 611R CxCxC Reducing Tee				
27	1	1"x3/4"x1"	Nibco Wrot 611R CxCxC Reducing Tee				
28	2	1"x1/2"	Nibco Wrot 611R CxCxC Reducing Tee				
29	1	2"	Nibco Wrot 611 CxCxC Tee				
30	1	1"	Nibco Wrot 611 CxCxC Tee				
31	1	2"	Nibco Wrot 603 Adapter CxF				
32	1	1 1/4"	Nibco Wrot 603 Adapter CxF				
33	1	1 1/2"	Nibco Wrot 603 Adapter CxF				
34	2	2"	Nibco Wrot 600 Dimpled Stop Coupling CxC				
35	1	1"	Nibco Wrot 600 Dimpled Stop Coupling CxC				
36	1	3"x1 1/4"	Merit Brass 3000# 316L SS Thread-O-Let				
37	1	3"x2"	Victaulic Sch 10S 316L A-403 GRV Conc Red No 450-SS				
38	1	3"x1 1/2"	Victaulic Sch 10S 316L A-403 GRV Conc Red No 450-SS				
39	3	6"	B-Line B2000 ZN Sch 40 Pipe Clamp				
40	3	5"	B-Line B2000 ZN Sch 40 Pipe Clamp				
41	1	3.5"	B-Line B2000 ZN Sch 40 Pipe Clamp				
42	3	3"	B-Line B2000 ZN Sch 40 Pipe Clamp				
43	1	2.5"	B-Line B2000 ZN Sch 40 Pipe Clamp				
44	1	0.5"	B-Line B2000 ZN Sch 40 Pipe Clamp				

vibra clamp

Snap-it insul. block used w/ strut clamp shown  
(2) 3 IPS x 1" insul.  
(2) 2 1/8 O.D x 2" insul.  
(2) 1 1/8 O.D x 1" insul.



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JOB: WASH U NRB

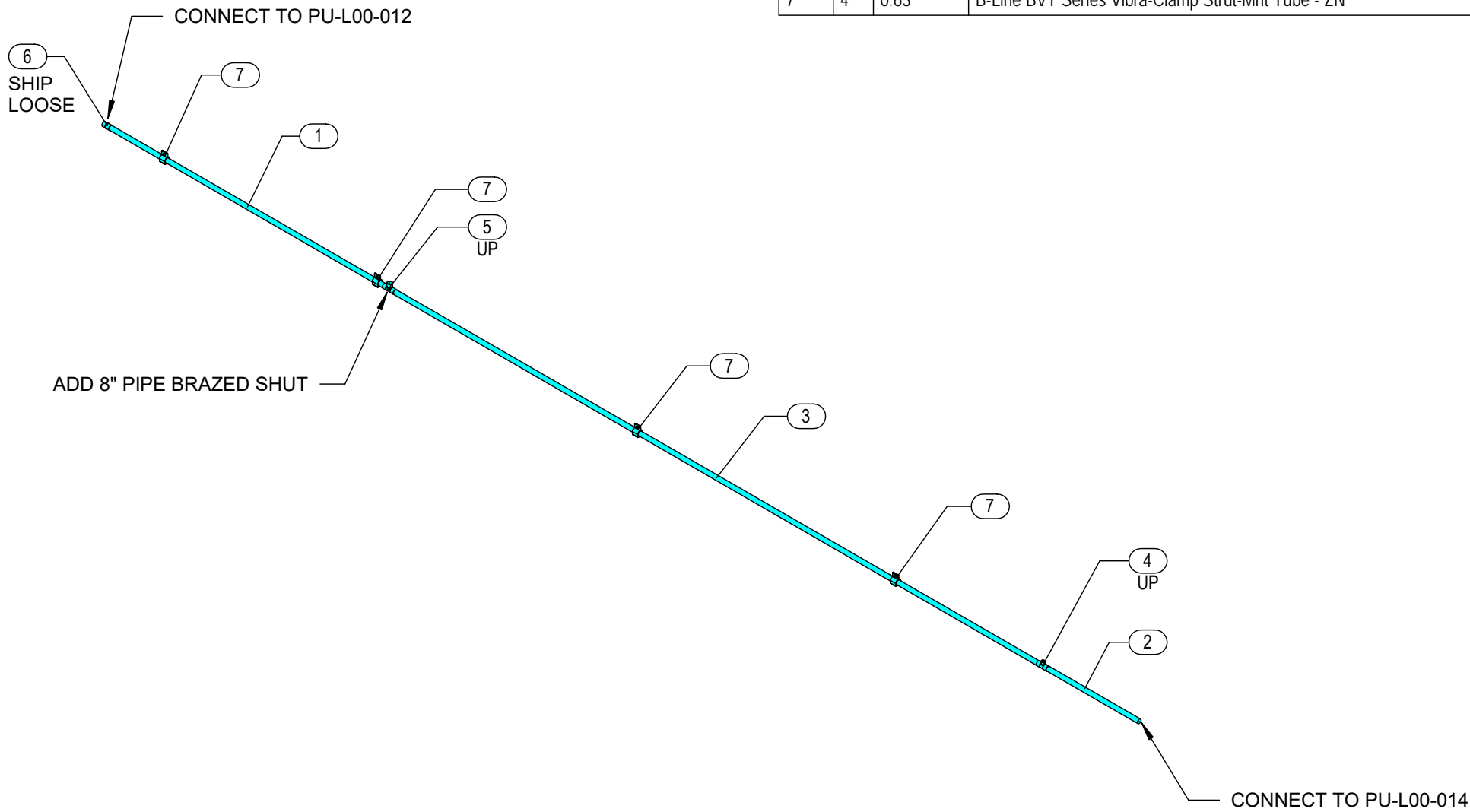
TICKET: PP-L00-013

Drawn By: Author

DATE REQ: 04/01/21

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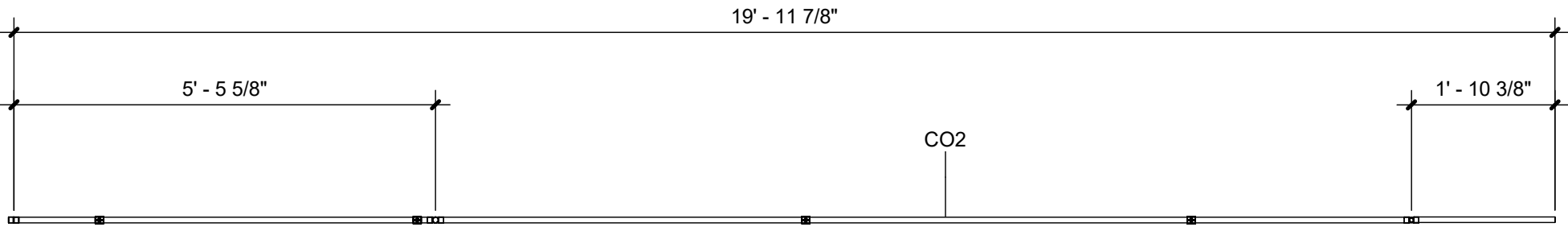
Mark	Qty	Size	Description	Length	Strut Width	Rod 1 Length	Rod 2 Length
1	1	3/4"	Cerro Type L Hard Copper - CFOS	5'-5 1/8"			
2	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-9 15/16"			
3	1	3/4"	Cerro Type L Hard Copper - CFOS	12'-7 1/16"			
4	1	3/4"x1/2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee				
5	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee				
6	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop				
7	4	0.63"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN				



1

ISOMETRIC

SCALE:



2

TOP VIEW

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

A1	A3	B1	B3
A2	A4	B2	B4

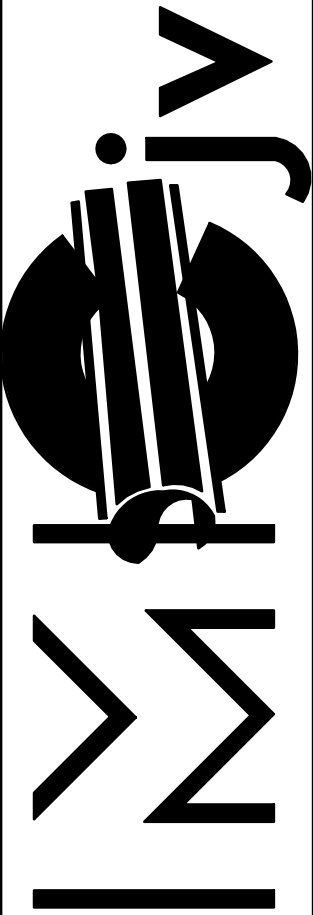
JOB: WASH U NRB

TICKET: PU-L00-013

Drawn By: Author

DATE: 05/07/21

DATE REQ:



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