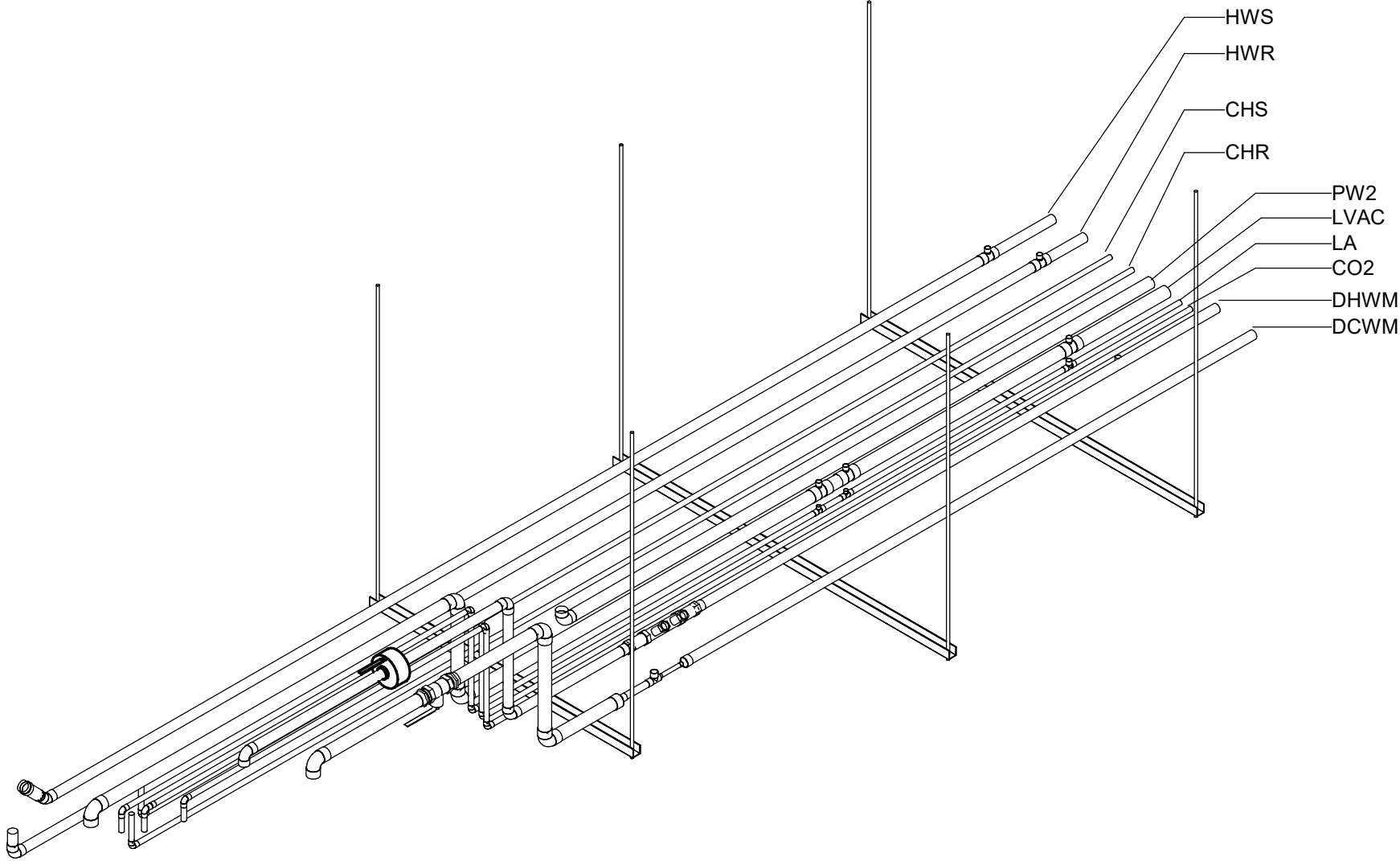
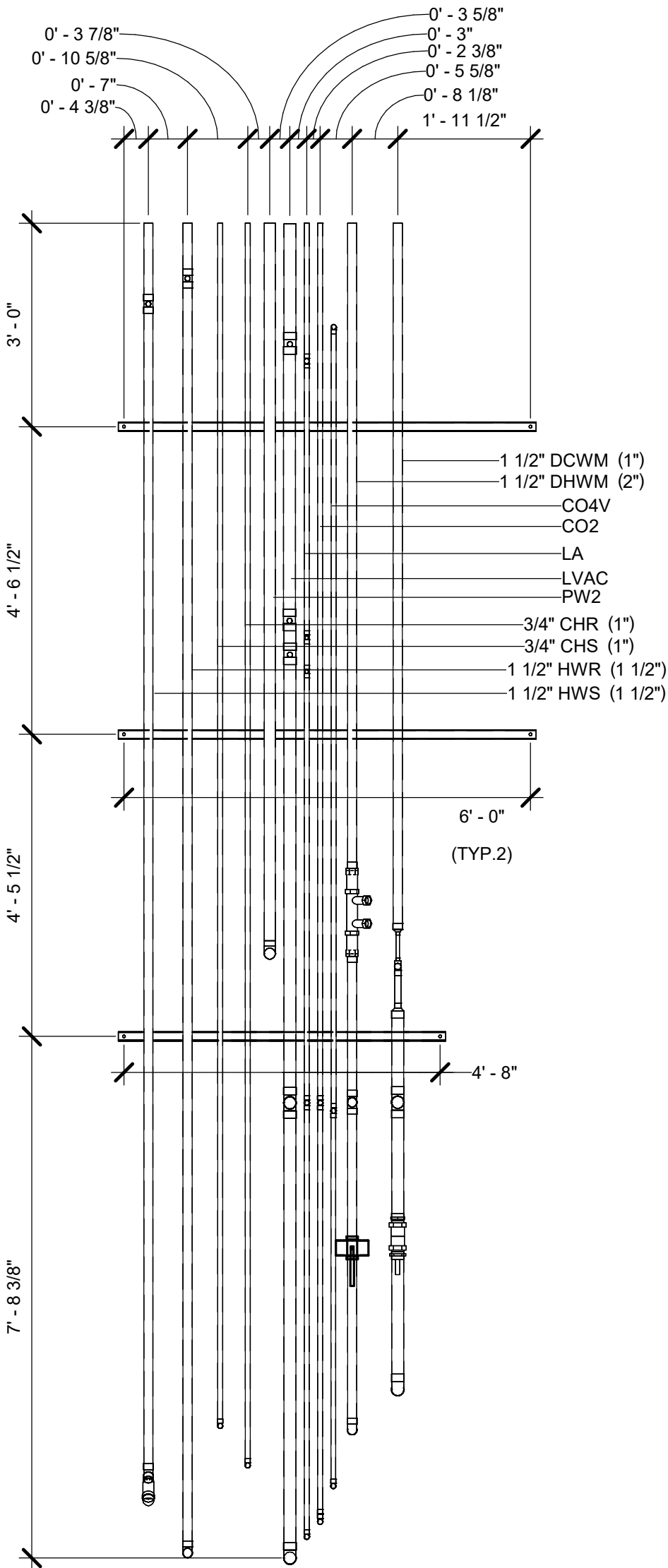


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8/12/2021 10:37:07 AM



2 AS-L03-047 - ISOMETRIC
AS-L03-047 SCALE:



1 AS-L03-047
AS-L03-047 SCALE: 1/2" = 1'-0"

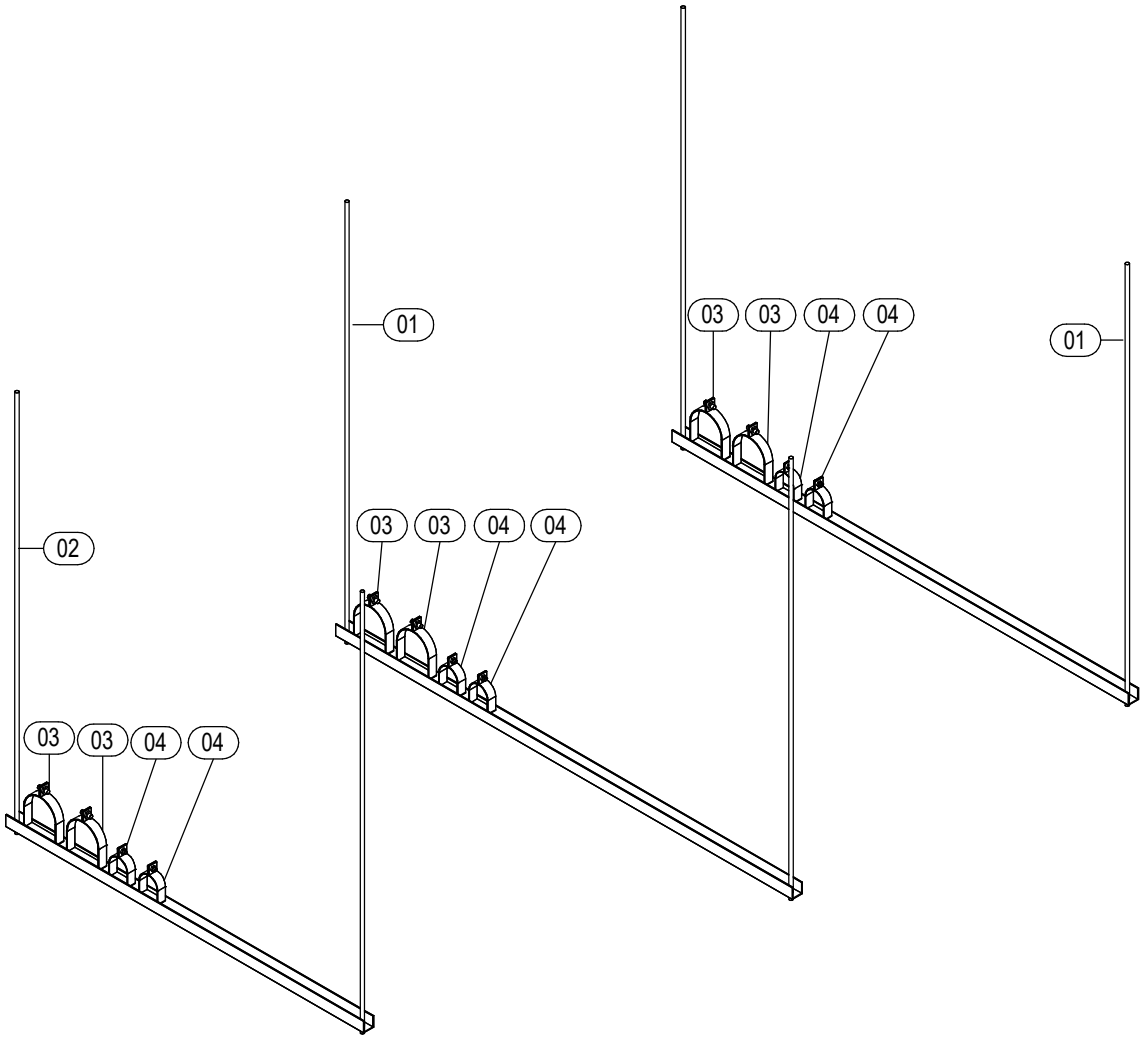
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A2	A4	B2	B4

JOB: WASH U NRB
TICKET: AS-L03-047
Drawn By: Author
DATE: 08/09/21 DATE REQ:



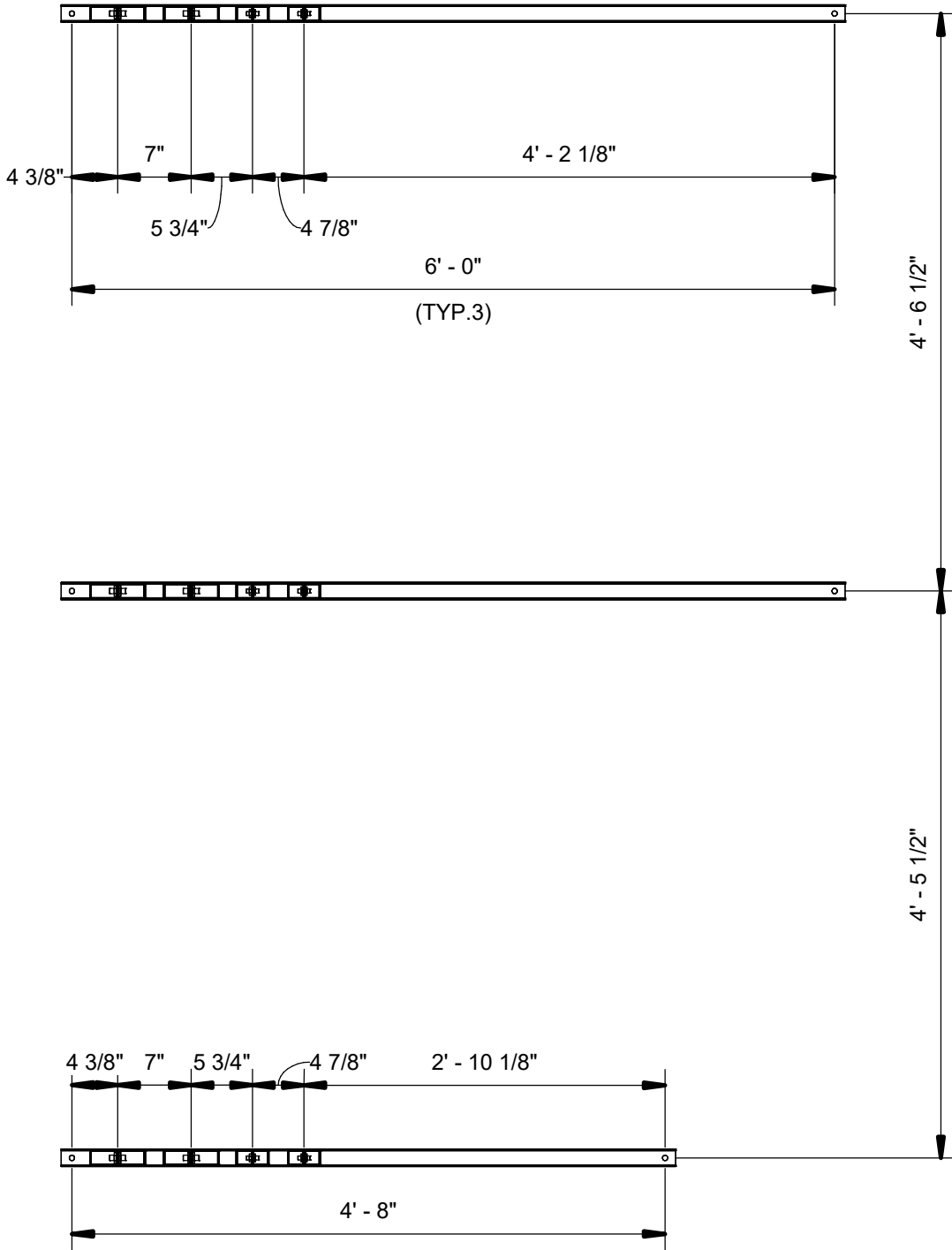
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_HPF.rvt
8/20/2021 1:42:11 PM



Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	2	70"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		6' - 2"	5' - 2"	5' - 2"	
02	1	54"	B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut		4' - 10"	5' - 2"	5' - 2"	
03	6	4 5/8"	B-Line B2000 ZN Sch 40 Pipe Clamp		0"	0"	0"	
04	6	2 7/8"	B-Line B2000 ZN Sch 40 Pipe Clamp		0"	0"	0"	
03	6	4 5/8"	B-LINE #2058					
04	6	2 7/8"	B-LINE #2014					

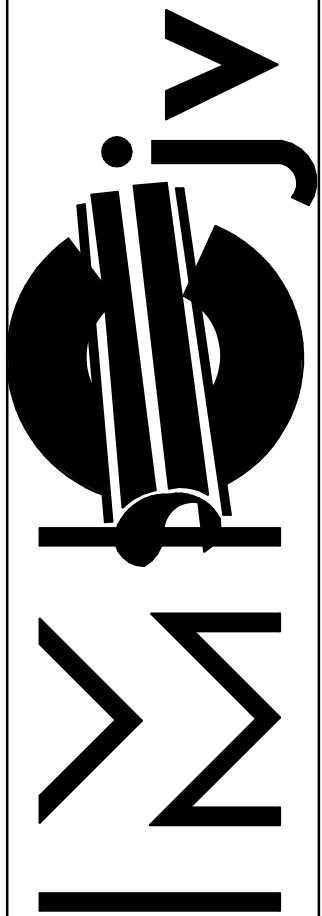
1 ISOMETRIC
SCALE:



2 TOP VIEW
SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

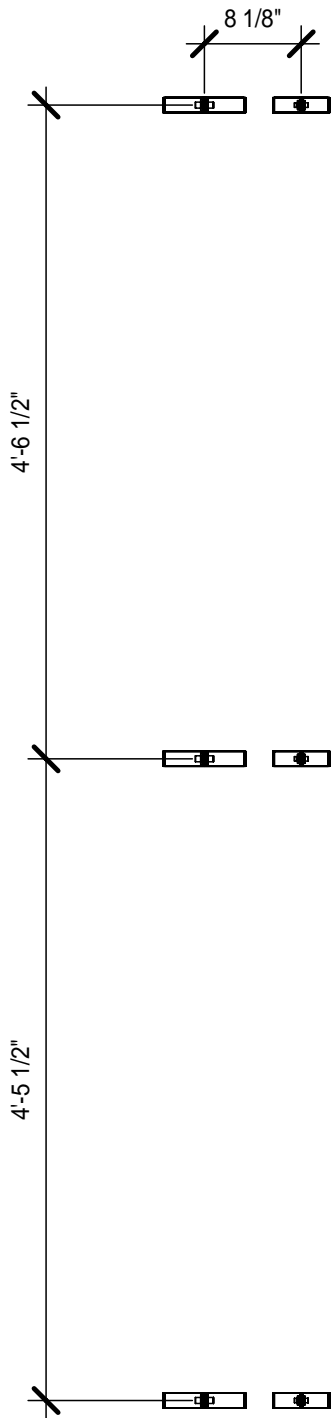
JOB:	WASH U NRB
TICKET:	HPHGR-L03-047
Drawn By:	Author
DATE:	08/11/21
DATE REQ:	



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St. Louis, Mo 63132-2303
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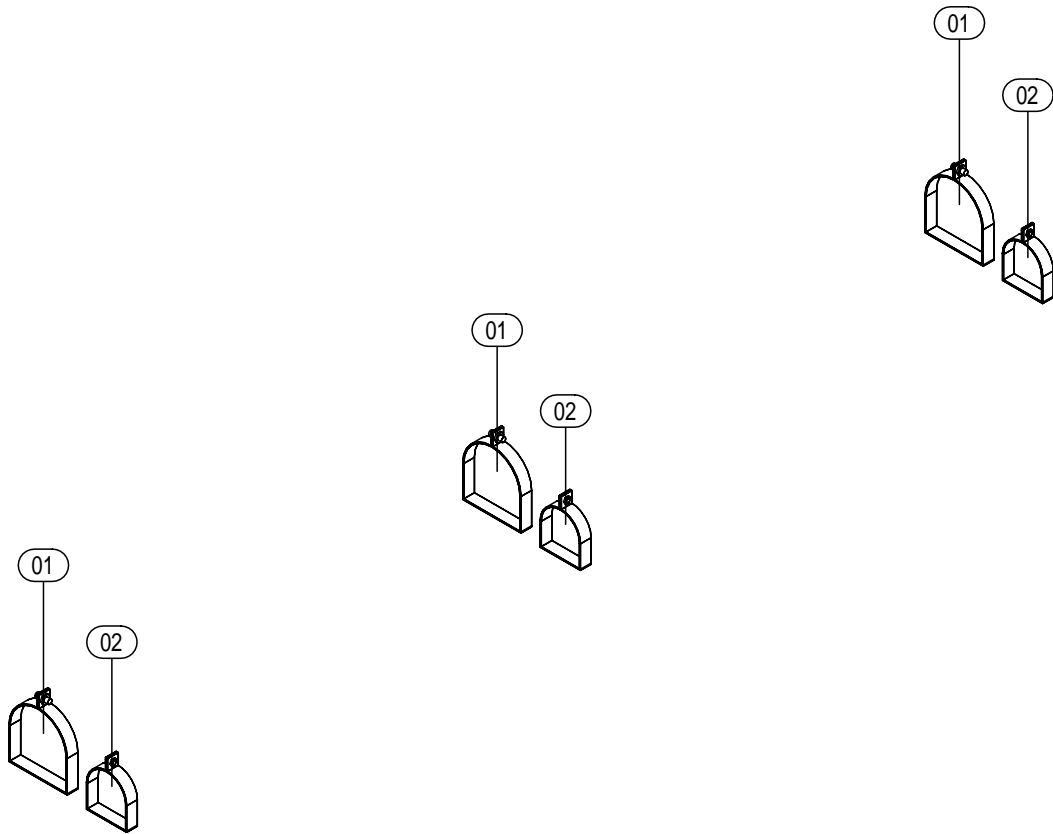
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12-08-2021 12:05:53

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	3	6"	B-Line B2000 ZN Sch 40 Pipe Clamp					
02	3	4"	B-Line B2000 ZN Sch 40 Pipe Clamp					
01	3	5 5/8"	B-LINE #2066					
02	3	3 5/8"	B-LINE #2050					



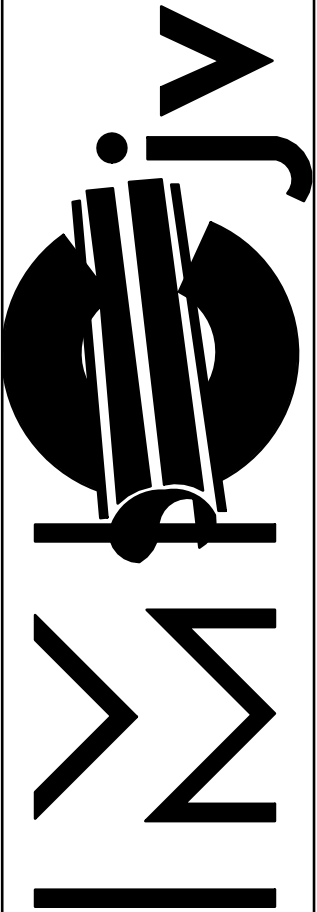
2 TOP VIEW
SCALE: 3/4" = 1'-0"

1 ISOMETRIC
SCALE:



A1	A3	B1	B3
A2	A4	B2	B4

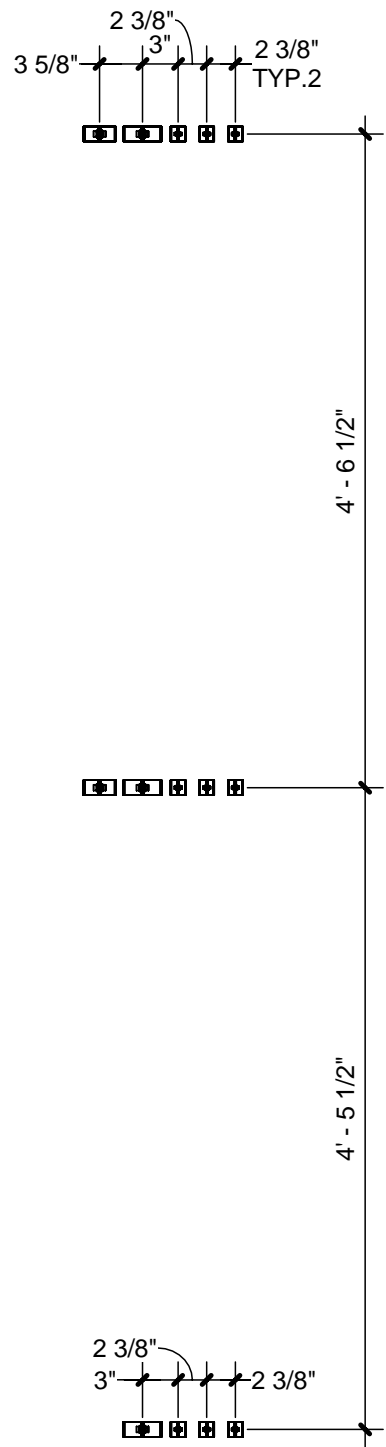
JOB:	WASH U NRB
TICKET:	PPHGR-L03-047
Drawn By: Author	
DATE: 08/12/21	DATE REQ:



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13-08-2021 12:36:05

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	3	2.5"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN					
02	2	2"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN					
03	9	0.75"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN					

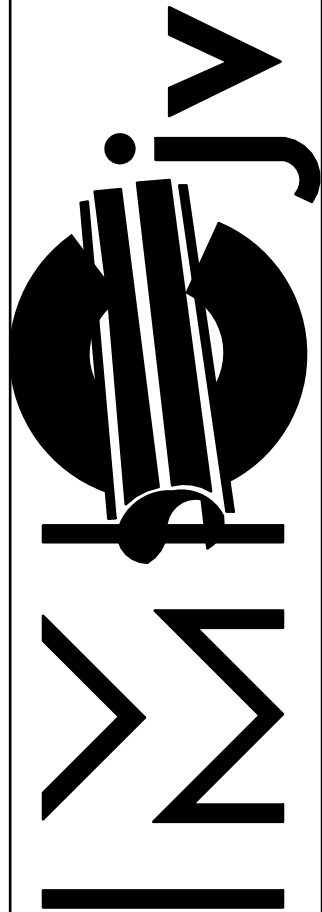


1 ISOMETRIC
SCALE:

2 TOP VIEW
SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

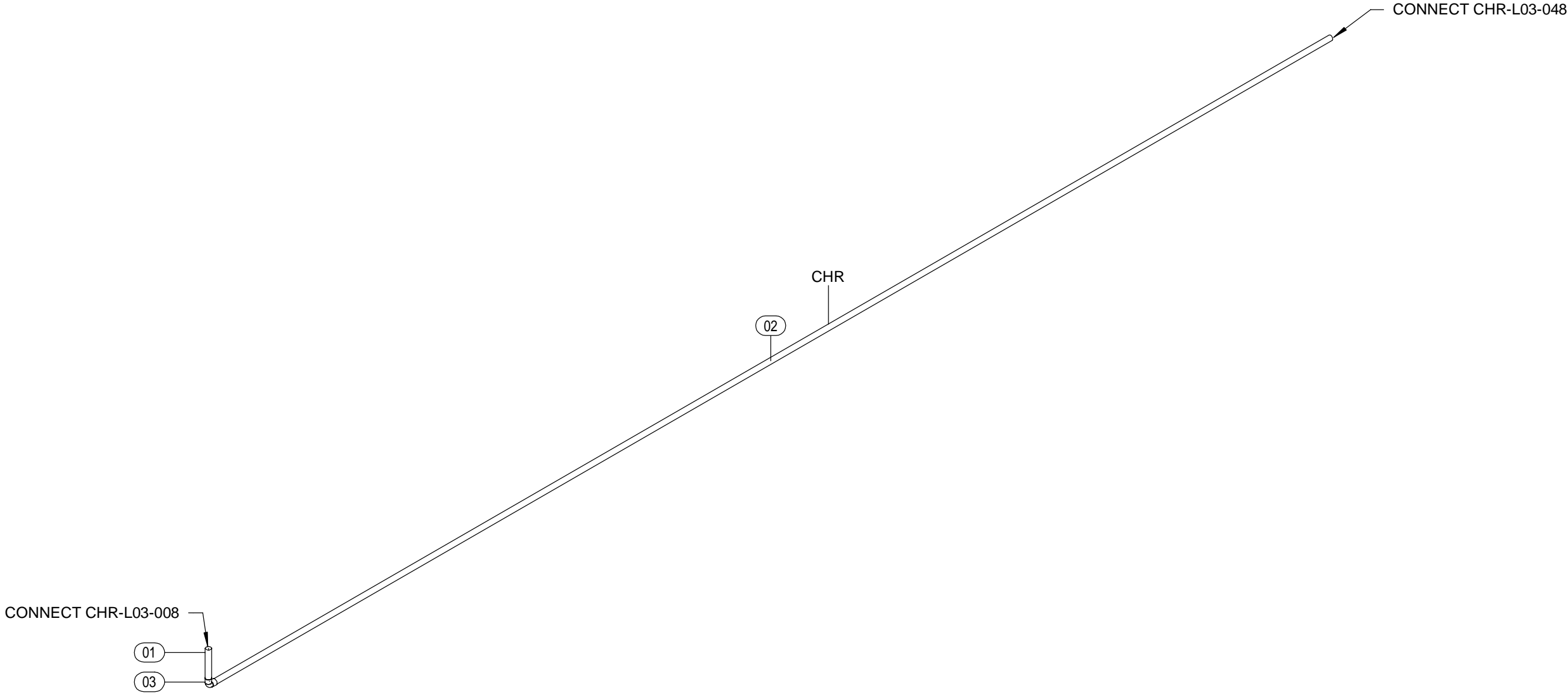
JOB:	WASH U NRB
TICKET:	PUHGR-L03-047
Drawn By: Author	
DATE: 08/16/21	DATE REQ:



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BIM 360://WUSM NRB\\WUSM_RB_HPF.rvt
09-08-2021 16:36:35

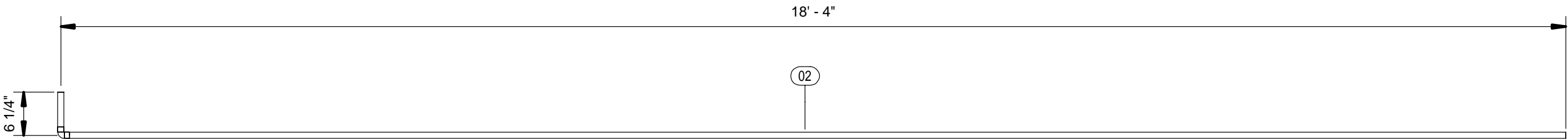
Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type K Hard Copper Pipe	0'-5 13/16"				1"
02	1	3/4"	Cerro Type K Hard Copper Pipe	18'-3 9/16"				1"
03	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"



1

ISOMETRIC

SCALE:



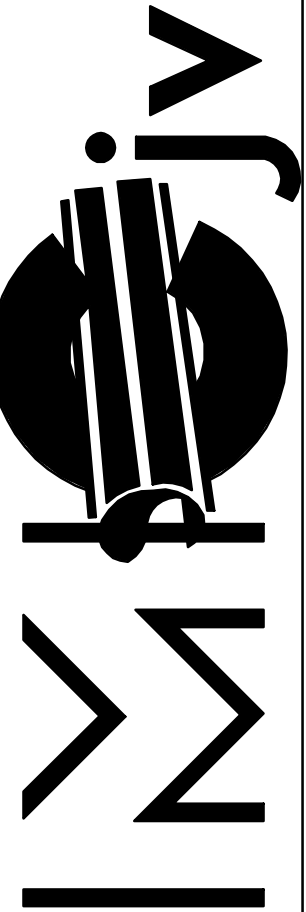
2

RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

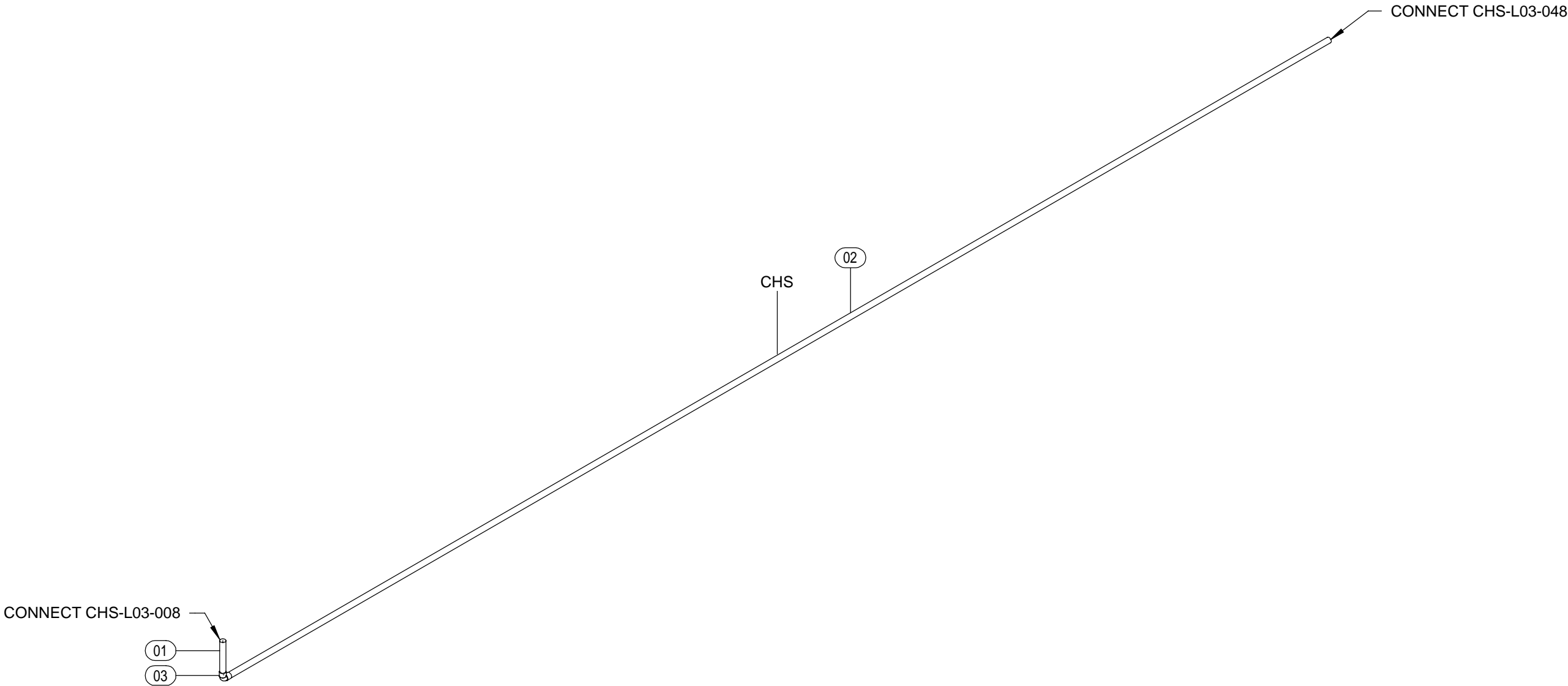
JOB:	WASH U NRB
TICKET:	CHR-L03-047
Drawn By: Author	
DATE: 08/09/21	DATE REQ:



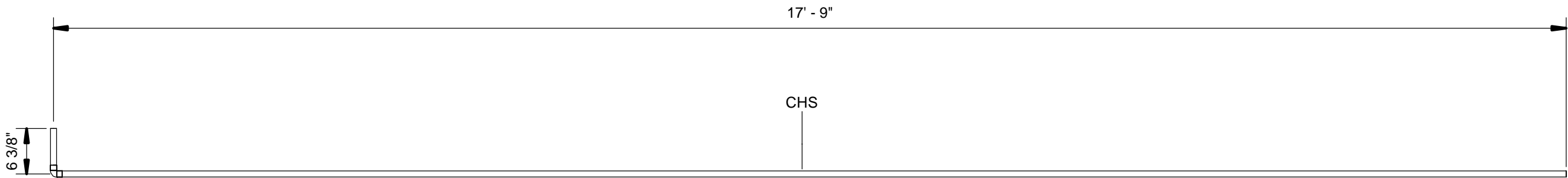
1233 N. Price Rd.
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314-997-6600 phone

BIM 360//WUSM NRBWUSM_RB_HPF.rvt
09-08-2021 16:34:50

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type K Hard Copper Pipe	0'-5 7/8"				1"
02	1	3/4"	Cerro Type K Hard Copper Pipe	17'-8 9/16"				1"
03	1	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"



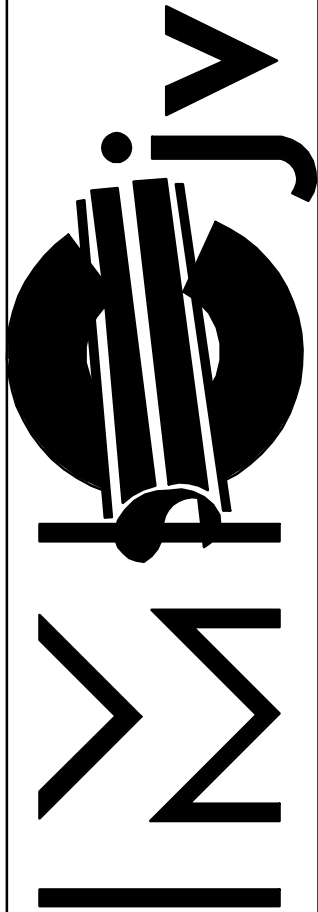
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

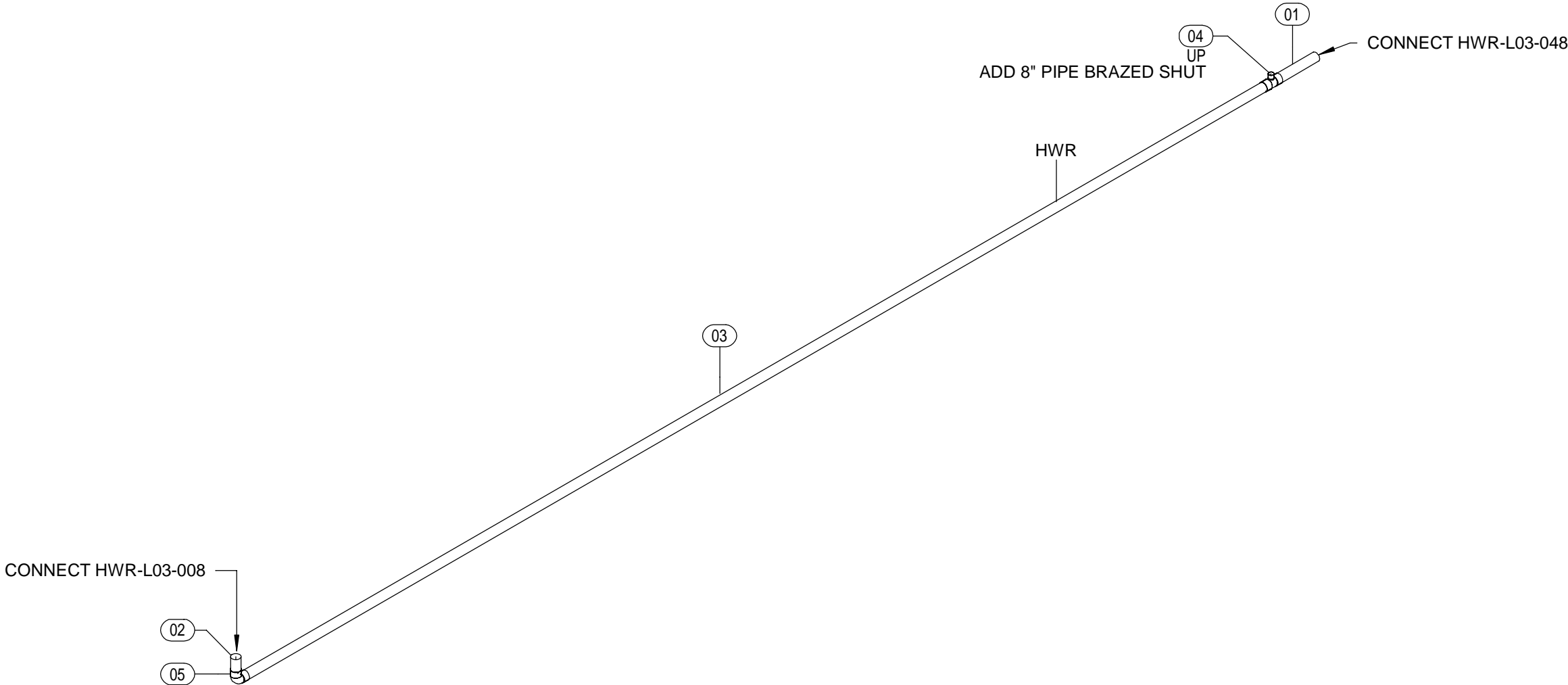
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TICKET: CHS-L03-047
Drawn By: Author
DATE: 08/09/21 DATE REQ:



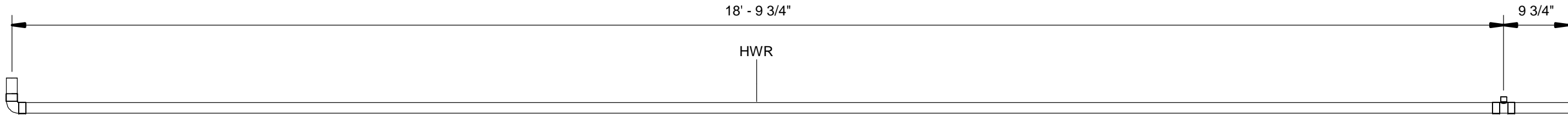
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St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360//WUSM NRBWUSM_RB_HPF.rvt
05-08-2021 14:53:15

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	1 1/2"	Cerro Type K Hard Copper Pipe	0'-9 3/16"				1 1/2"
02	1	1 1/2"	Cerro Type K Hard Copper Pipe	0'-3 1/2"				1 1/2"
03	1	1 1/2"	Cerro Type K Hard Copper Pipe	18'-8 1/8"				1 1/2"
04	1	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
05	1	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC					1 1/2"



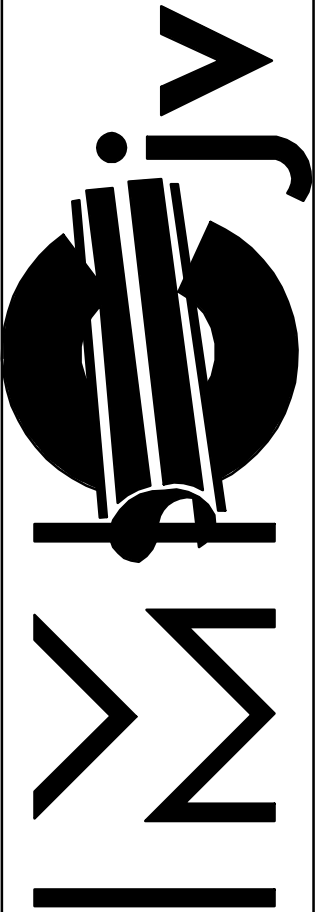
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

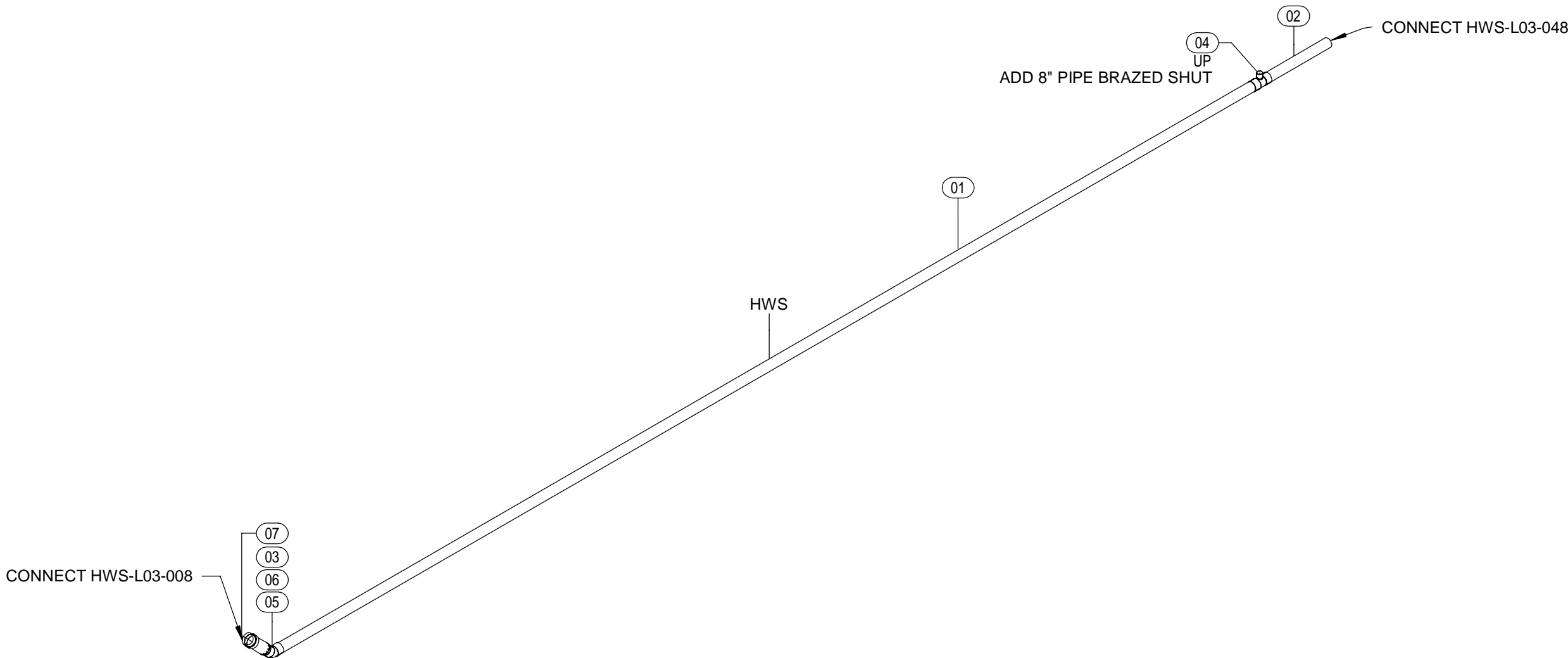
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TICKET:	HWR-L03-047
Drawn By:	Author
DATE:	08/05/21
DATE REQ:	



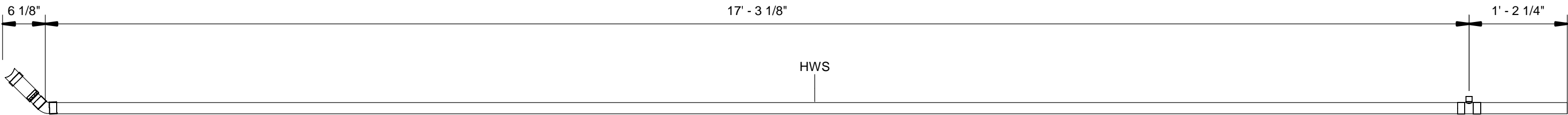
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360//WUSM NRBWUSM_RB_HPF.rvt
05-08-2021 19:31:14

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	1 1/2"	Cerro Type K Hard Copper Pipe	17'-1 7/8"				1 1/2"
02	1	1 1/2"	Cerro Type K Hard Copper Pipe	1'-1 11/16"				1 1/2"
03	1	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting					1 1/2"
04	1	1 1/2"x3/4"	Nibco Wrot 611R CxCxC Reducing Tee					1 1/2"
05	1	1 1/2"	Nibco Wrot 606 45 Deg Ell CxC					1 1/2"
06	1	1 1/2"	Nibco Wrot 603-2 Ftg Adapter CxF					1 1/2"
07	1	3"x1 1/2"	Anvil 3000# FS Thread-O-Let					1 1/2"



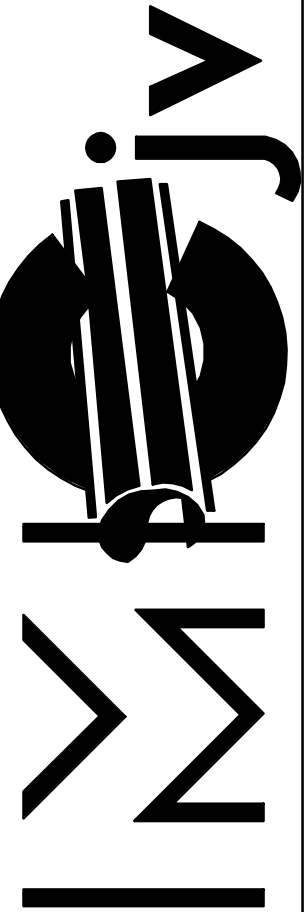
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 1 : 14

A1	A3	B1	B3
A2	A4	B2	B4

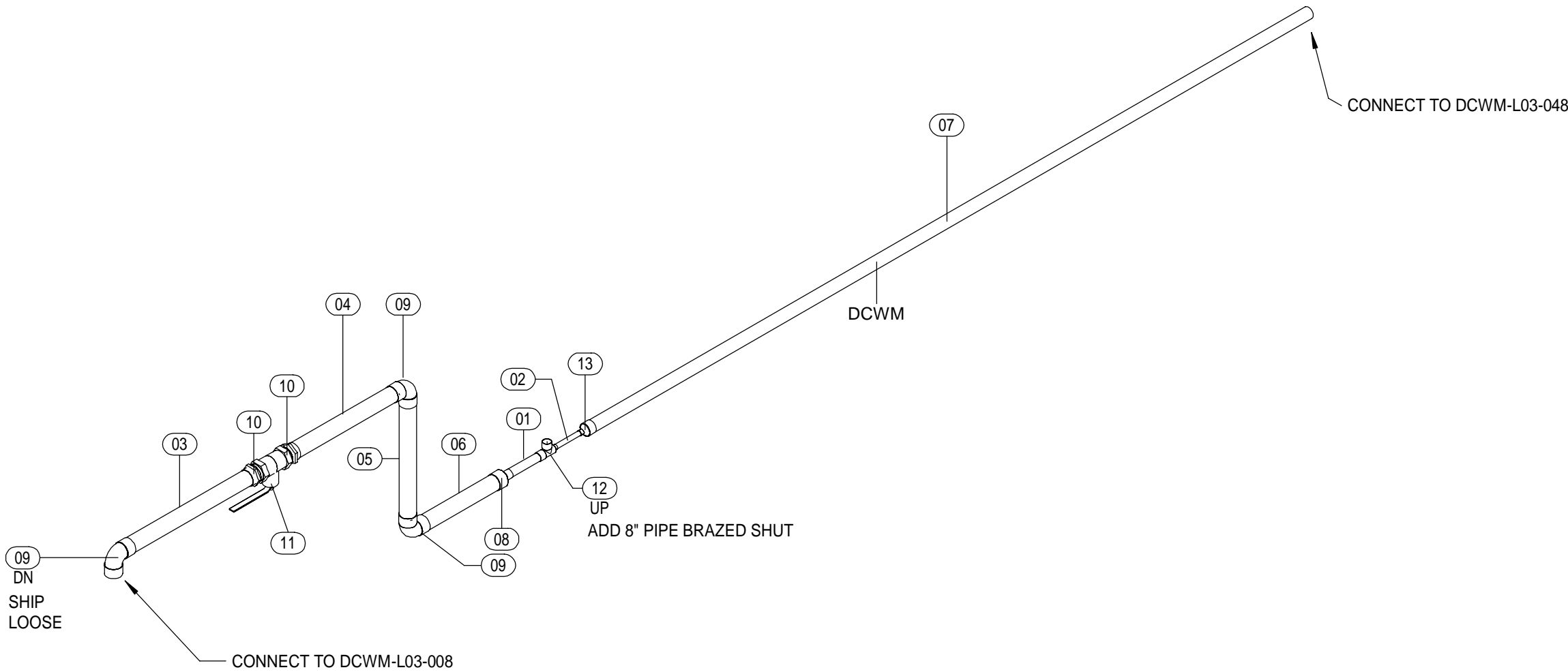
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TICKET:	HWS-L03-047
Drawn By: Author	
DATE: 08/03/21	DATE REQ:



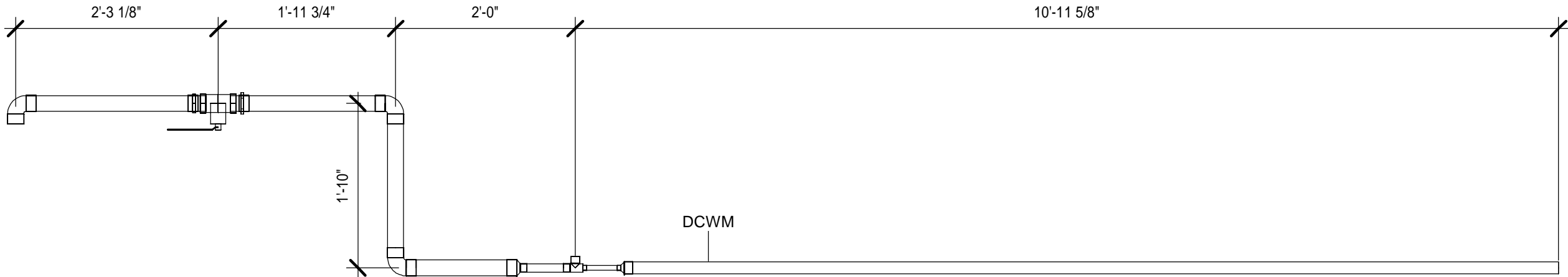
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PLE.rvt
07-08-2021 11:32:45

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	1"	Cerro Type L Hard Copper Pipe	0'-6 11/16"				1/2"
02	1	1/2"	Cerro Type L Hard Copper Pipe	0'-5 1/16"				1/2"
03	1	2"	Cerro Type L Hard Copper Pipe	1'-11"				1"
04	1	2"	Cerro Type L Hard Copper Pipe	1'-7 5/8"				1"
05	1	2"	Cerro Type L Hard Copper Pipe	1'-7 3/16"				1"
06	1	2"	Cerro Type L Hard Copper Pipe	1'-2 13/16"				1"
07	1	1 1/2"	Cerro Type L Hard Copper Pipe	10'-5 1/16"				1"
08	1	2"x1"	Nibco Wrot 600R Red Cplg CxC					1"
09	3	2"	Nibco Wrot 607 90 Deg Ell CxC					1"
10	2	2"	Nibco Wrot 604 Adapter CxM					1"
11	1	2"	Nibco T-585-80-LF Brz 2pc FP Ball Valve Thrd					1"
12	1	1"x1/2"x1"	Nibco Wrot 611R CxCxC Reducing Tee					1/2"
13	1	1 1/2"x1/2"	Nibco Wrot 600R Red Cplg CxC					1"



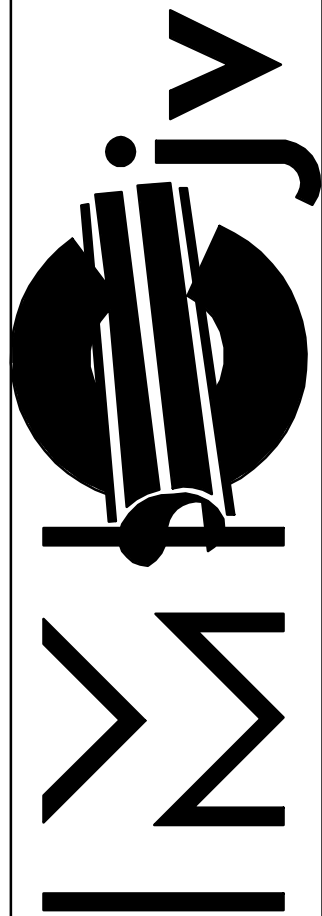
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4\"/>

A1	A3	B1	B3
A2	A4	B2	B4

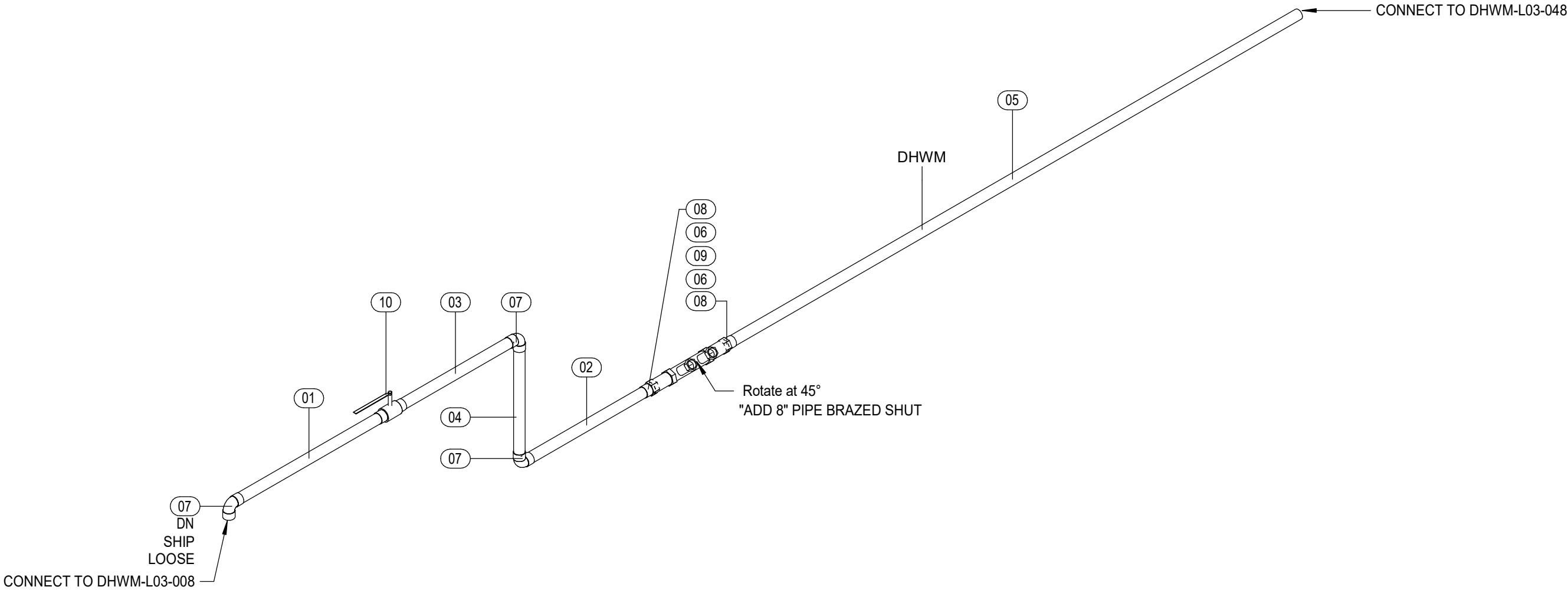
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TICKET:	DCWM-L03-047
Drawn By: Author	
DATE: 08/09/21	DATE REQ:



1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

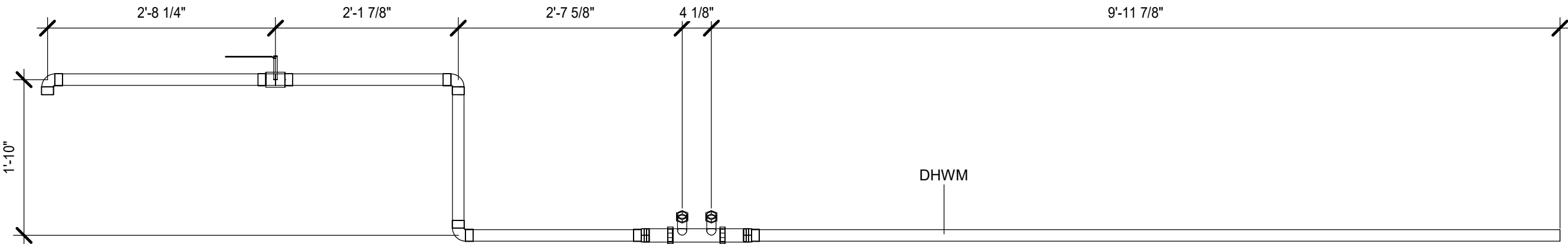
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8/23/2021 9:48:35 AM

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	1 1/2"	Cerro Type L Hard Copper Pipe	2'-5 13/16"				2"
02	1	1 1/2"	Cerro Type L Hard Copper Pipe	2'-0 13/16"				2"
03	1	1 1/2"	Cerro Type L Hard Copper Pipe	1'-11 7/16"				2"
04	1	1 1/2"	Cerro Type L Hard Copper Pipe	1'-7 15/16"				2"
05	1	1 1/2"	Cerro Type L Hard Copper Pipe	9'-6 1/4"				2"
06	2	1 1/2"	Victaulic No.647 TT Dielectric Transition Fitting					2"
07	3	1 1/2"	Nibco Wrot 607 90 Deg Ell CxC					2"
08	2	1 1/2"	Nibco Wrot 603 Adapter CxF					2"
09	1	1 1/2"x1"	Kemper Kemper Fig651 20 KHS Flow-Splitter FPT					2"
10	1	1 1/2"	Apollo 77CLF-140 LF-Brz 2pc FP SS-B&S Ball Valve Swt					2"



1 ISOMETRIC

SCALE:



2 RIGHT ELEVATION

SCALE: 3/4\"/>

A1	A3	B1	B3
A2	A4	B2	B4

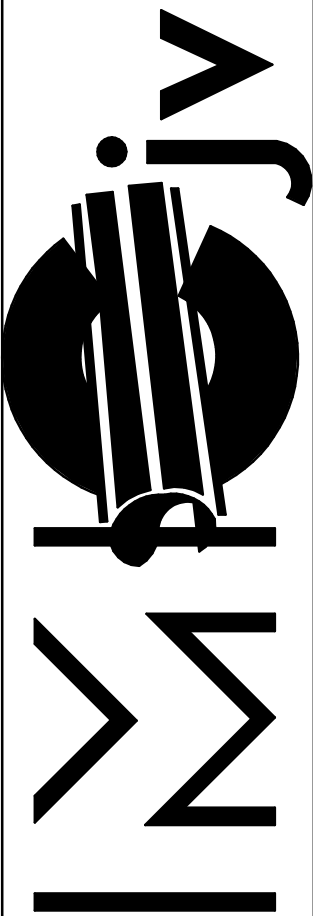
JOB: WASH U NRB

TICKET: DHWM-L03-047

Drawn By: Author

DATE: 08/09/21

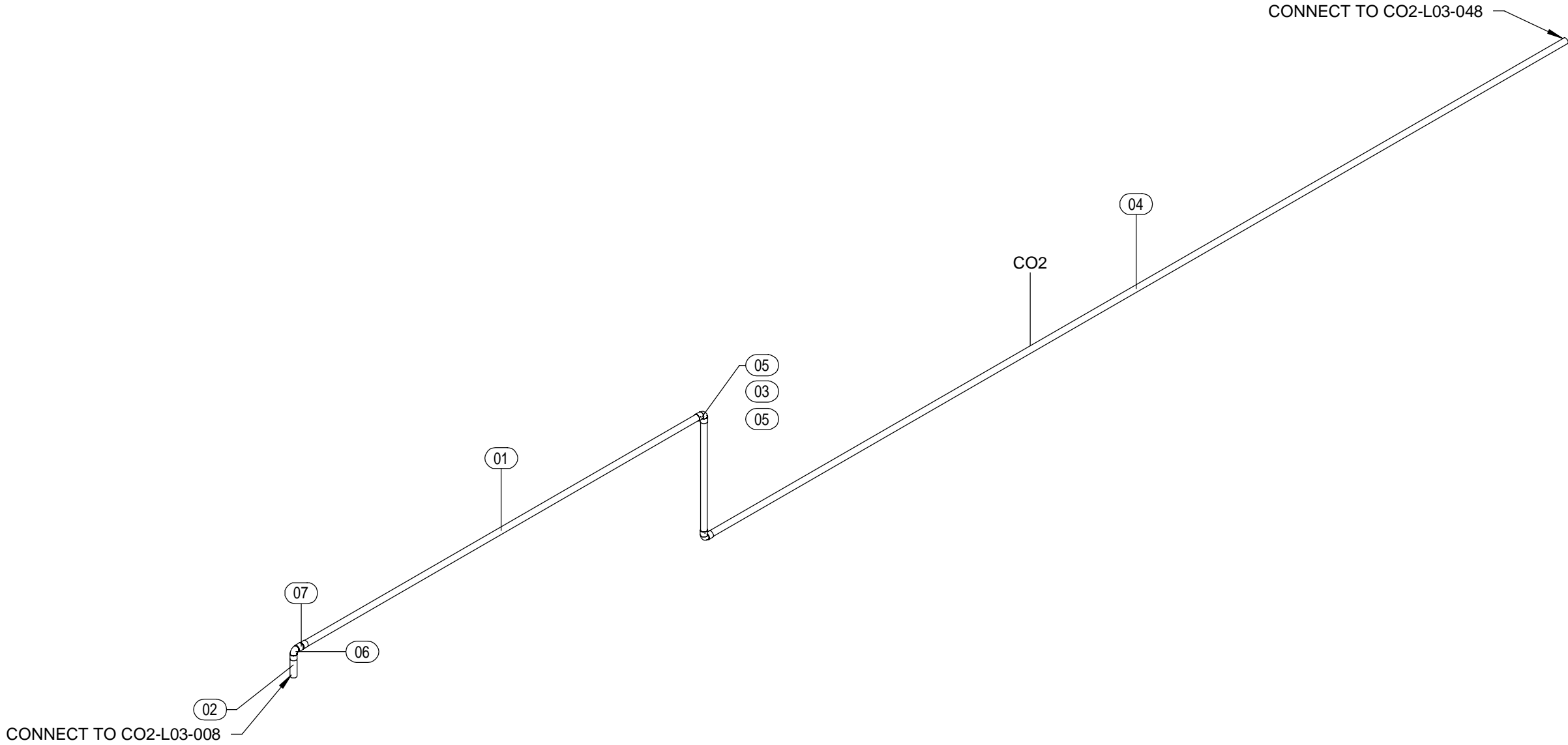
DATE REQ:



1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

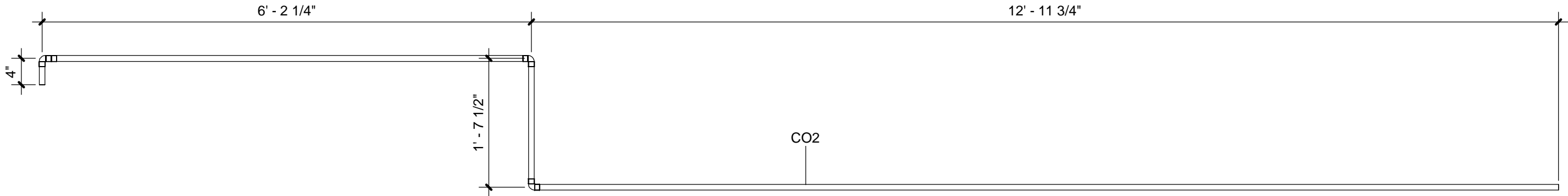
BIM 360//WUSM NRBWUSM_RB_PUF.rvt
16-08-2021 15:23:10

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	6'-0 5/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-3 7/16"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-6 1/2"				
04	1	3/4"	Cerro Type L Hard Copper - CFOS	12'-11 5/16"				
05	2	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
06	1	3/4"	Nibco 607-2-CB CFOS Wrot Copper 90 Elbow Street					
07	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					



1 ISOMETRIC

SCALE:

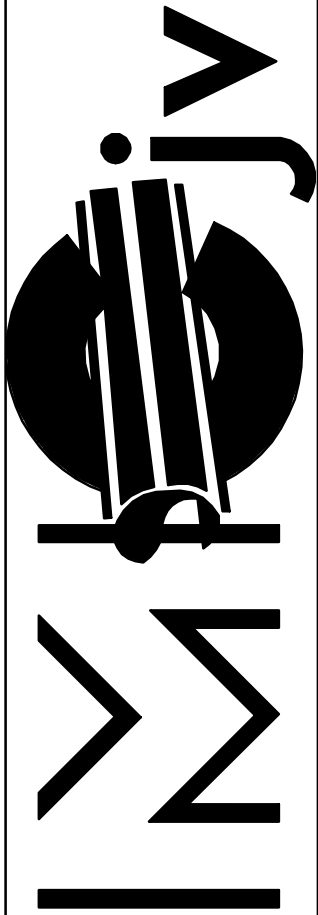


2 RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

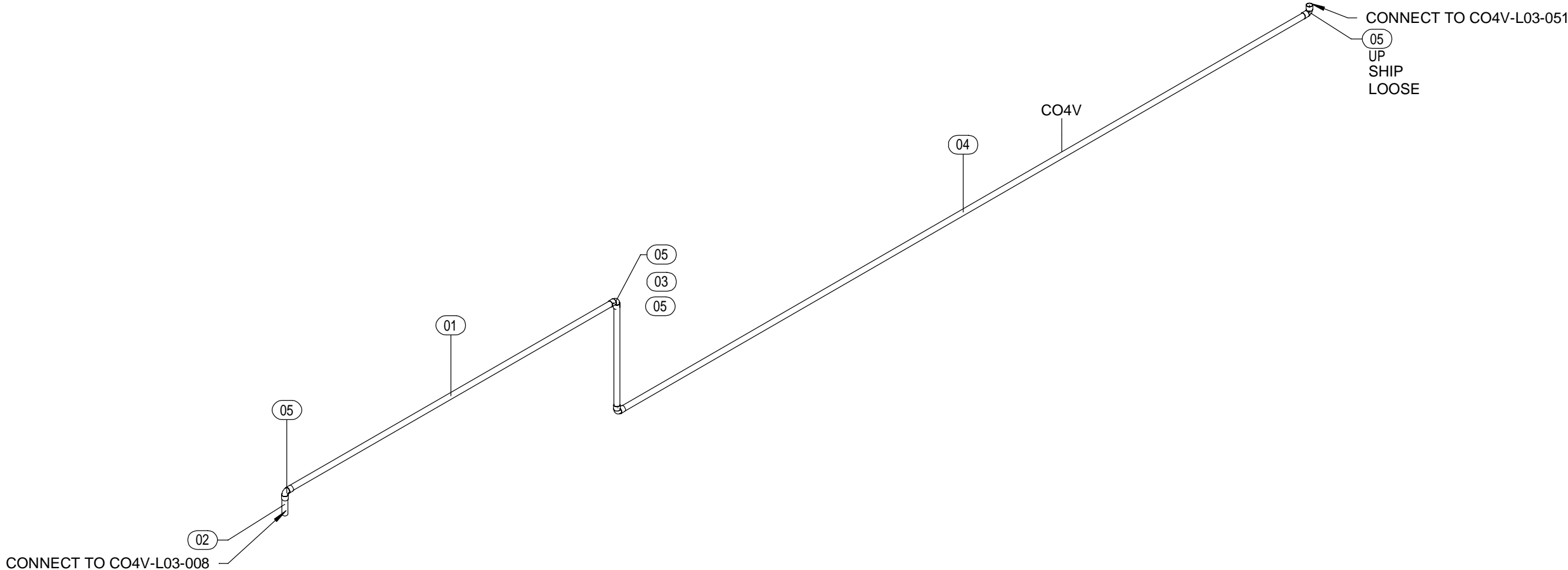
JOB: WASH U NRB
TICKET: CO2-L03-047
Drawn By: Author
DATE: 08/17/21
DATE REQ:



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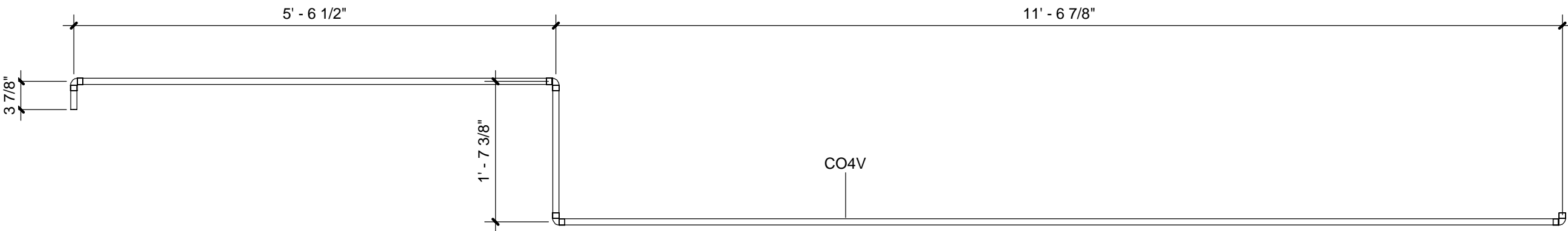
BIM 360/WUSM NRBWUSM_RB_PUF.rvt
16-08-2021 16:11:44

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	5'-5 1/2"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-3 3/8"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-6 5/16"				
04	1	3/4"	Cerro Type L Hard Copper - CFOS	11'-5 13/16"				
05	4	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					



1 ISOMETRIC

SCALE:

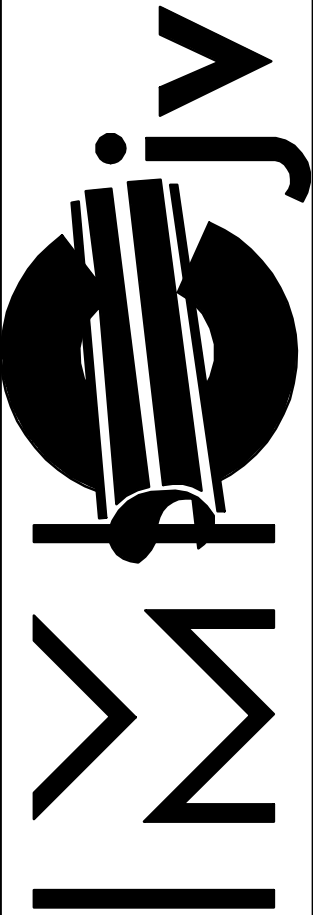


2 RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

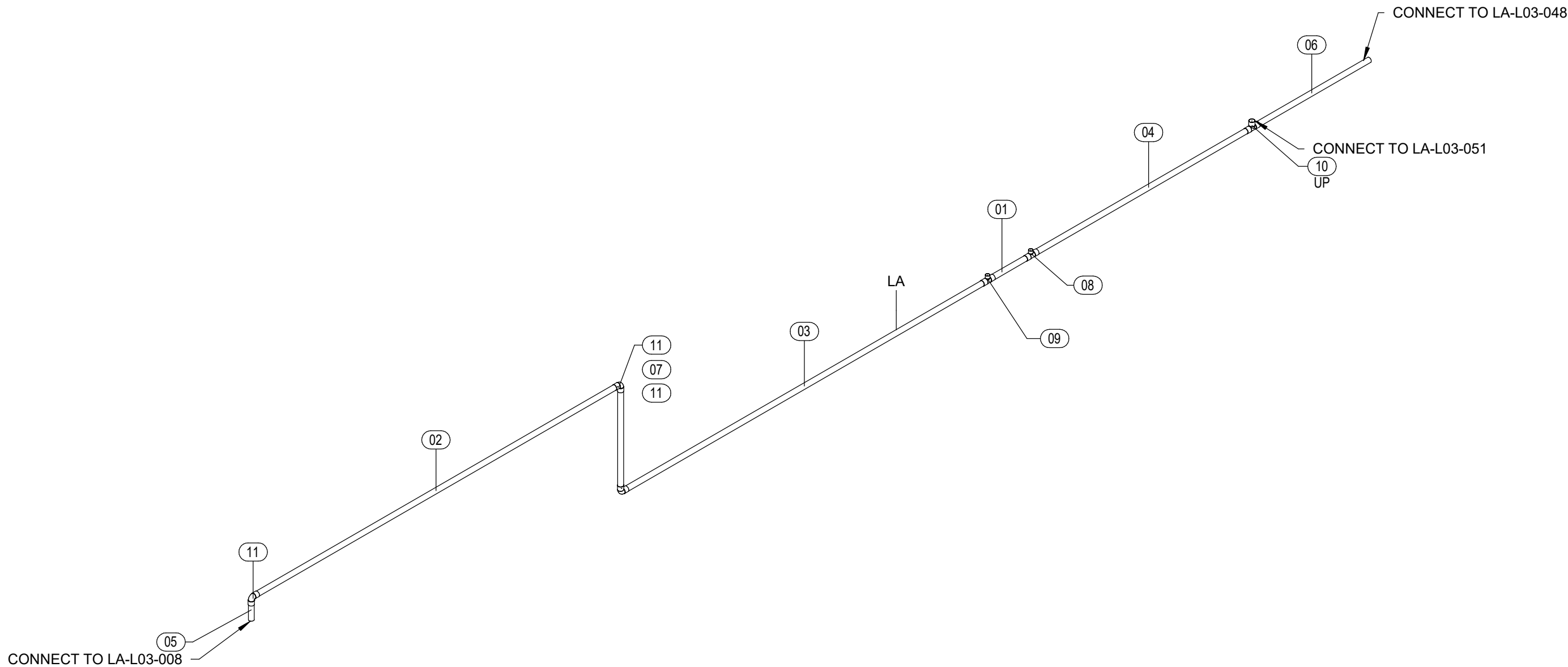
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TICKET:	CO4V-L03-047
Drawn By: Author	
DATE: 08/17/21	DATE REQ:



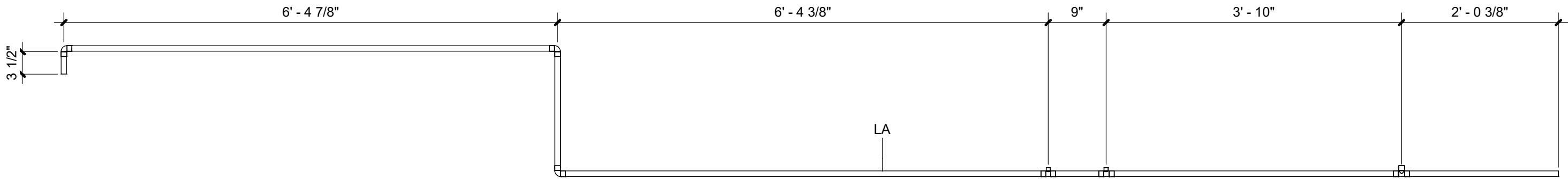
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PUF.rvt
1/11/2022 8:35:49 AM

Mark	Qty	Size	Description	Length	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-8 1/4"	
02	1	3/4"	Cerro Type L Hard Copper - CFOS	6'-3 7/8"	
03	1	3/4"	Cerro Type L Hard Copper - CFOS	6'-3 1/2"	
04	1	3/4"	Cerro Type L Hard Copper - CFOS	3'-9"	
05	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-3 1/2"	
06	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-11 7/8"	
07	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-6 1/2"	
08	1	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
09	1	3/4"x1/2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
10	1	3/4"	Nibco 611-CB CFOS Wrot Copper Tee		
11	3	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow		



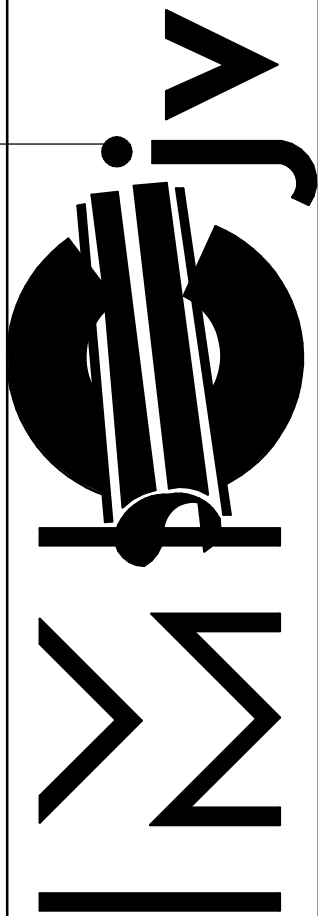
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

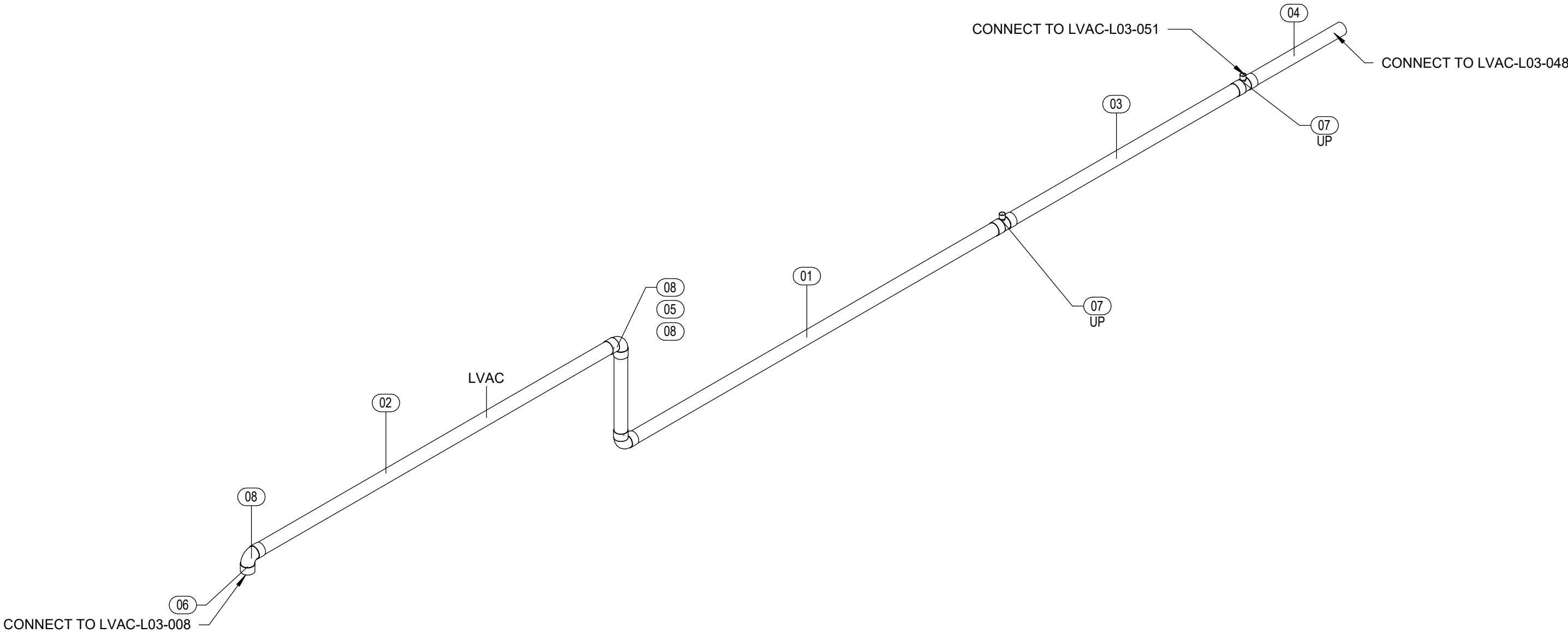
JOB: WASH U NRB	TICKET: LA-L03-047	Drawn By: Author	DATE REQ: 08/17/21
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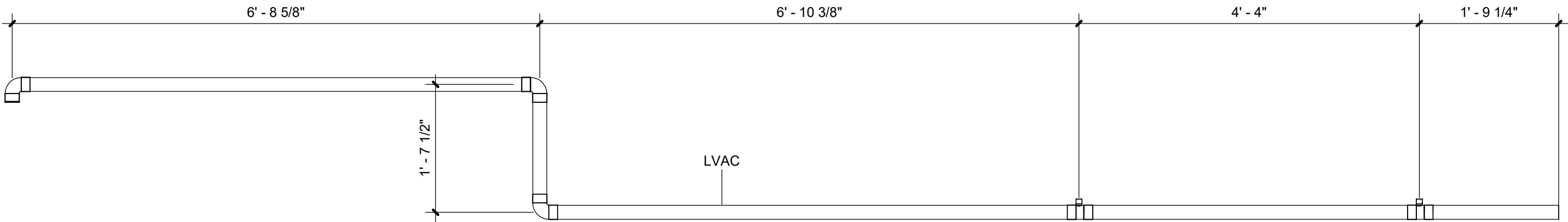
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1/11/2022 8:36:05 AM

Mark	Qty	Size	Description	Length	Insulation
01	1	2"	Cerro Type L Hard Copper - CFOS	6'-8 1/2"	
02	1	2"	Cerro Type L Hard Copper - CFOS	6'-5 7/8"	
03	1	2"	Cerro Type L Hard Copper - CFOS	4'-2 7/8"	
04	1	2"	Cerro Type L Hard Copper - CFOS	1'-8 1/2"	
05	1	2"	Cerro Type L Hard Copper - CFOS	1'-4 5/8"	
06	1	2"	Cerro Type L Hard Copper - CFOS	0'-1 1/8"	
07	2	2"x3/4"x2"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee		
08	3	2"	Nibco 607-CB CFOS Wrot 90 Elbow		



1 ISOMETRIC

SCALE:

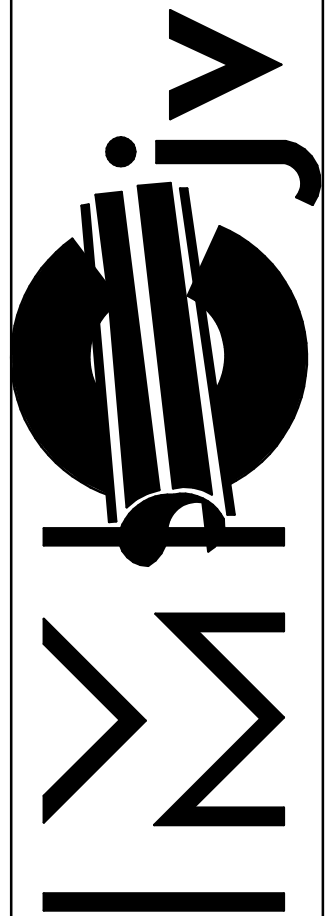


2 RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

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A2	A4	B2	B4

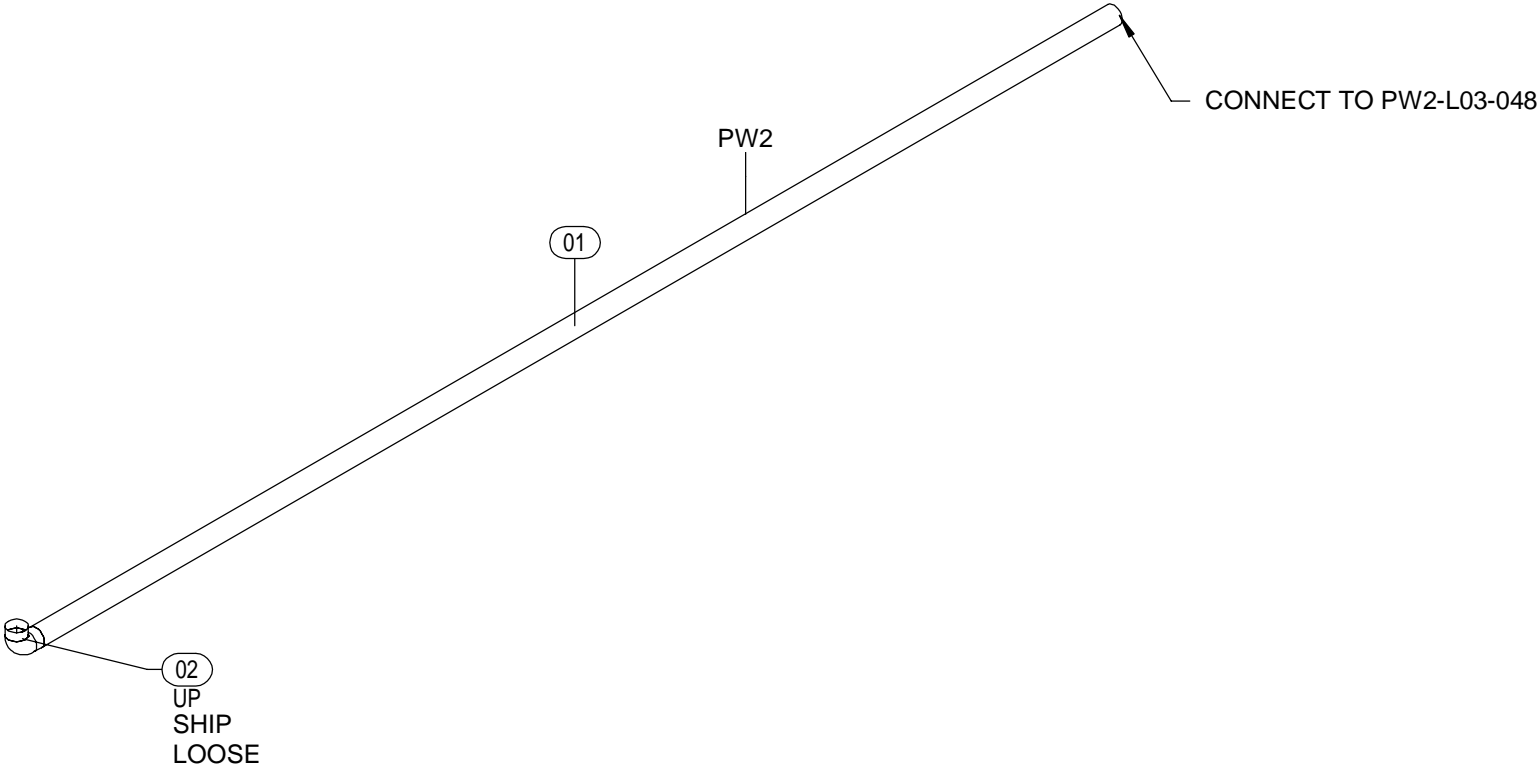
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TICKET:	LVAC-L03-047
Drawn By: Author	
DATE: 08/17/21	DATE REQ:



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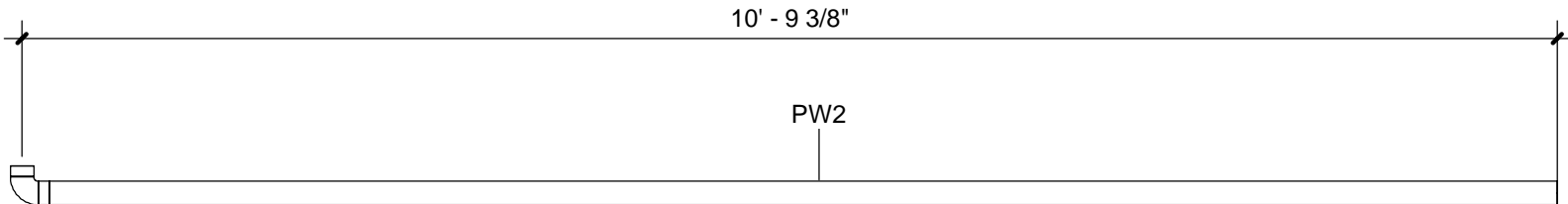
Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	1 1/2"	Geroge Fischer Slone PROGEF STD-PP IR Butt-Fusion Pipe	10'-7 1/8"				
02	1	1 1/2"	Geroge Fischer Slone PROGEF STD-PP IR Butt-Fusion 90 SR Elbow					



1

ISOMETRIC

SCALE:



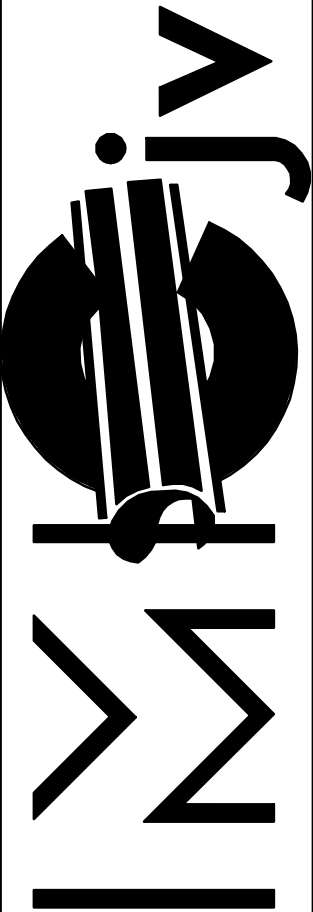
2

RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	PW2-L03-047
Drawn By: Author	
DATE: 08/17/21	DATE REQ:



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