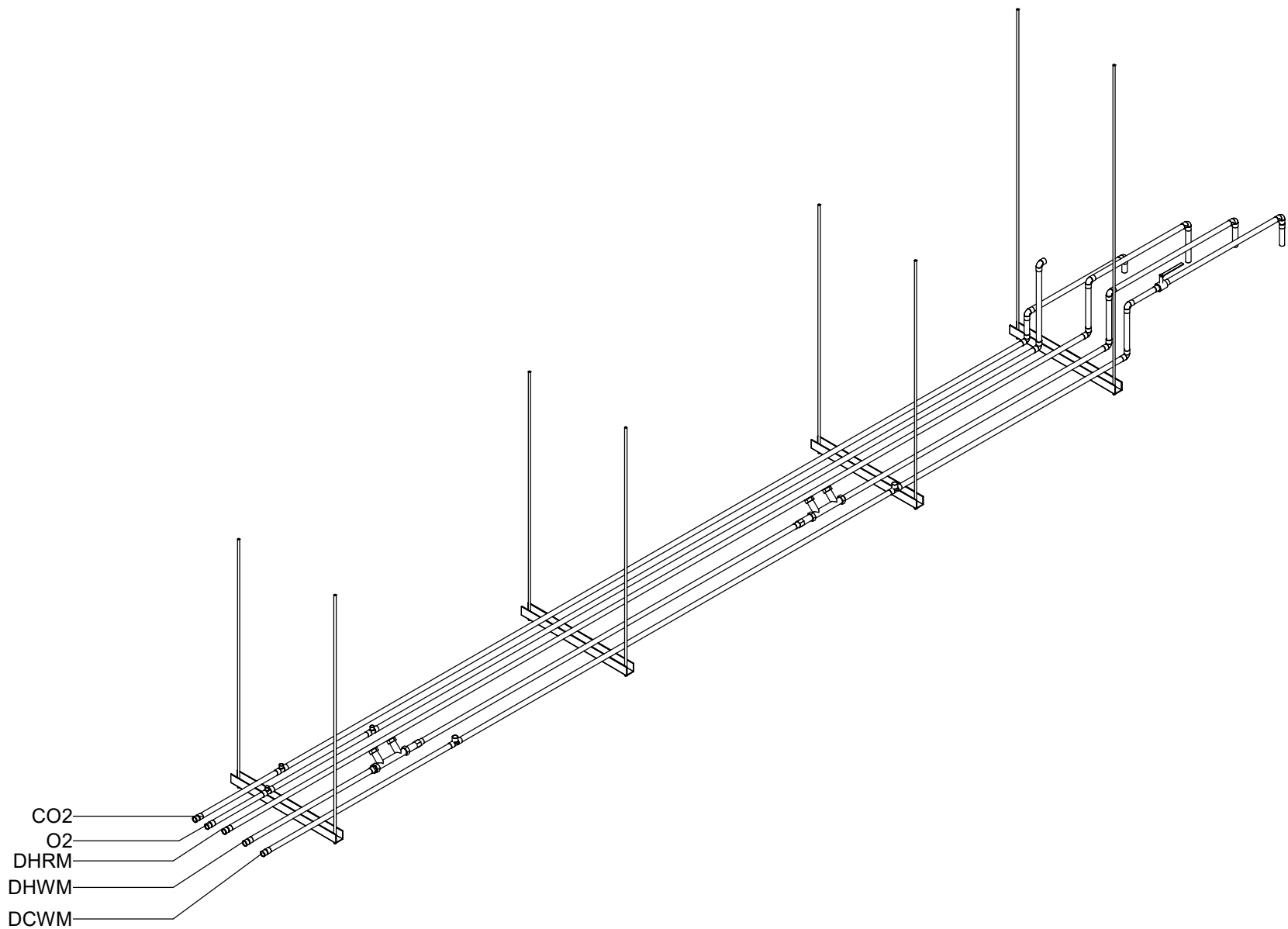
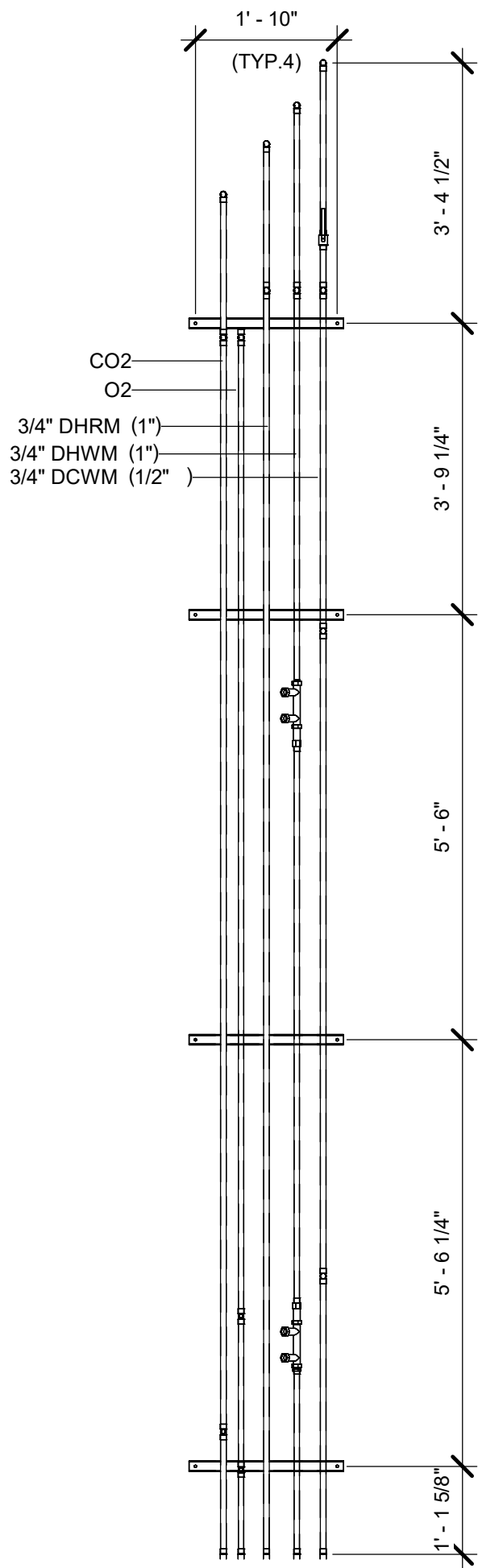


BIM 360//WUSM NRBWUSM_RB_SPOOLING MASTER.rvt
8/12/2021 9:56:51 AM



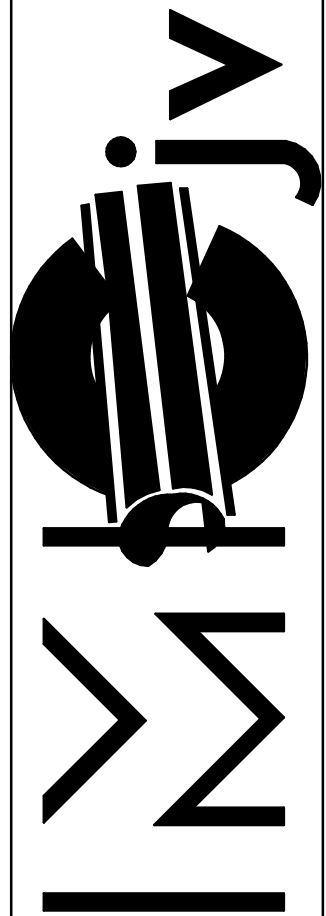
2 AS-L03-043 - ISOMETRIC
AS-L03-043 SCALE:



1 AS-L03-043
AS-L03-043 SCALE: 1/2" = 1'-0"

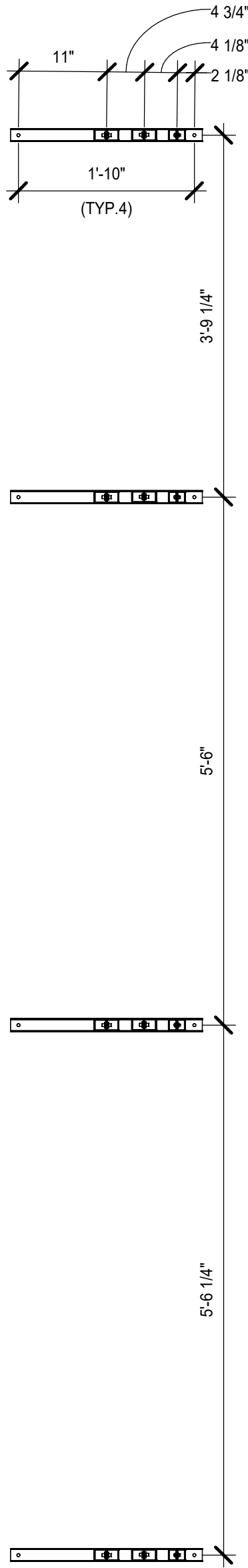
A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB
TICKET: AS-L03-043
Drawn By: Author
DATE: 08/09/21
DATE REQ:

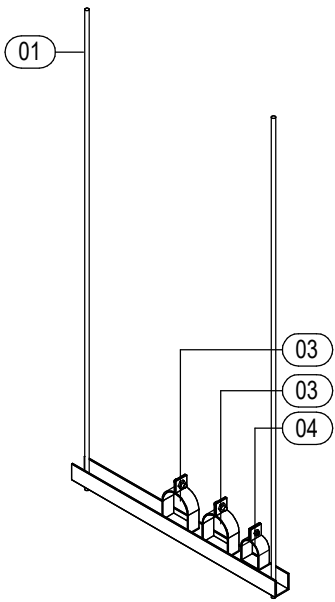


1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRB\WUSM_RB_PLF.rvt
8/19/2021 3:01:42 PM



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



1 ISOMETRIC
SCALE:

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	3	20"	B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut		2'-0"	4'-1"	4'-1"	
02	1	20"	B-Line 1-5/8 GLV 12GA 2in Slotted Unistrut		2'-0"	5'-5"	5'-5"	
03	8	2 7/8"	B-Line B2000 ZN Sch 40 Pipe Clamp					
04	4	1 7/8"	B-Line B2000 ZN Sch 40 Pipe Clamp					
03	8	2 7/8"	B-LINE #2014					
04	4	1 7/8"	B-LINE #2012					

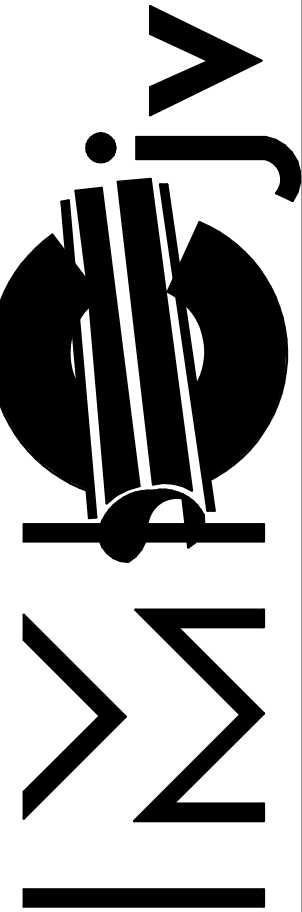
JOB: WASH U NRB

TICKET: PPHGR-L03-043

Drawn By: Author

DATE REQ: 08/12/21

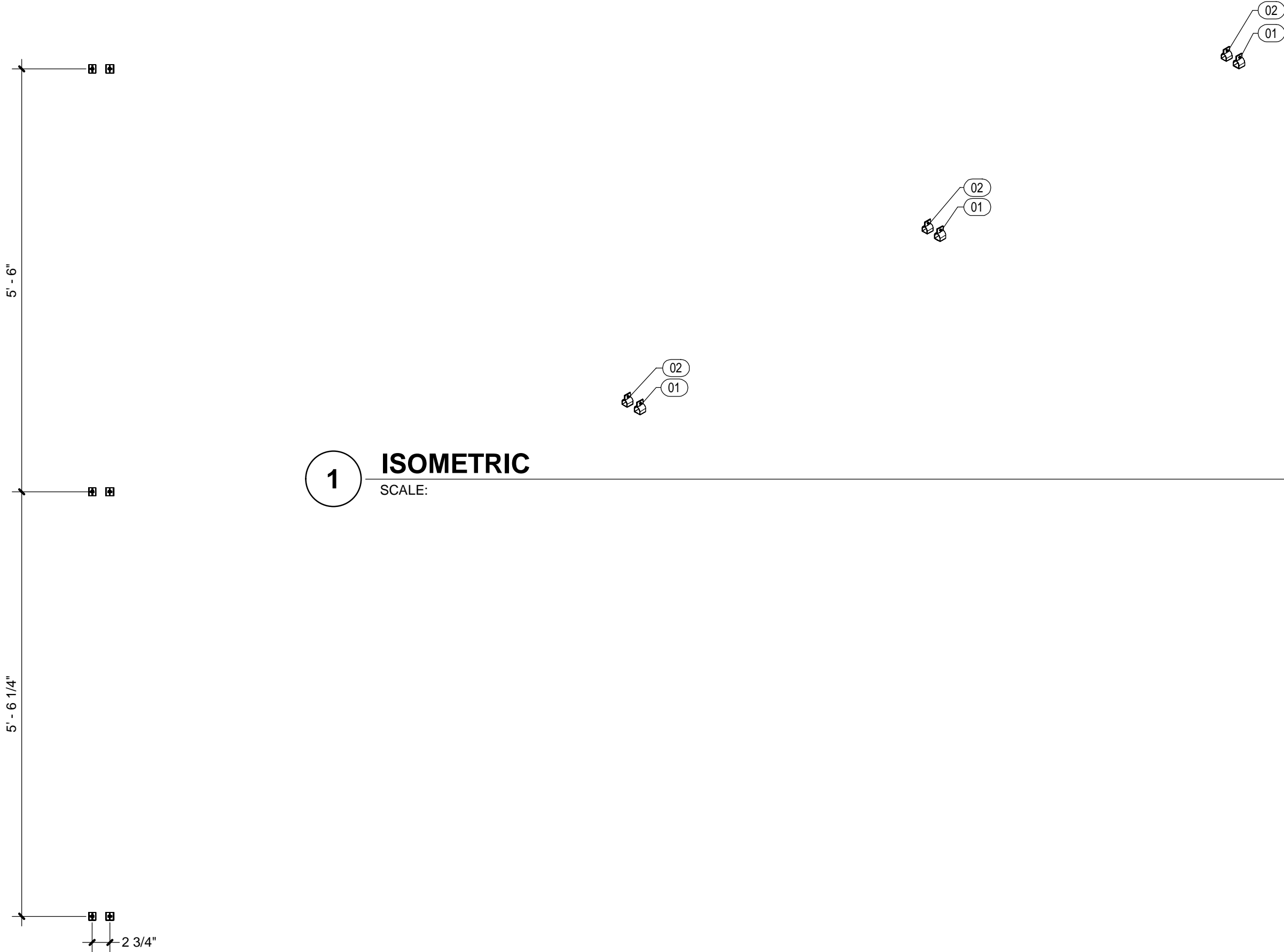
A1	A3	B1	B3
A2	A4	B2	B4



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

BIM 360//WUSM NRBWUSM_RB_PUF.rvt
16-08-2021 11:59:56

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	3	0.75"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN					
02	3	0.63"	B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN					

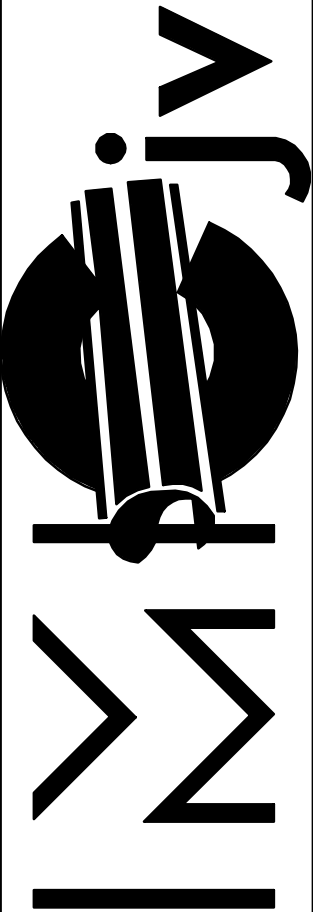


1 ISOMETRIC
SCALE:

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

A1	A3	B1	B3
A2	A4	B2	B4

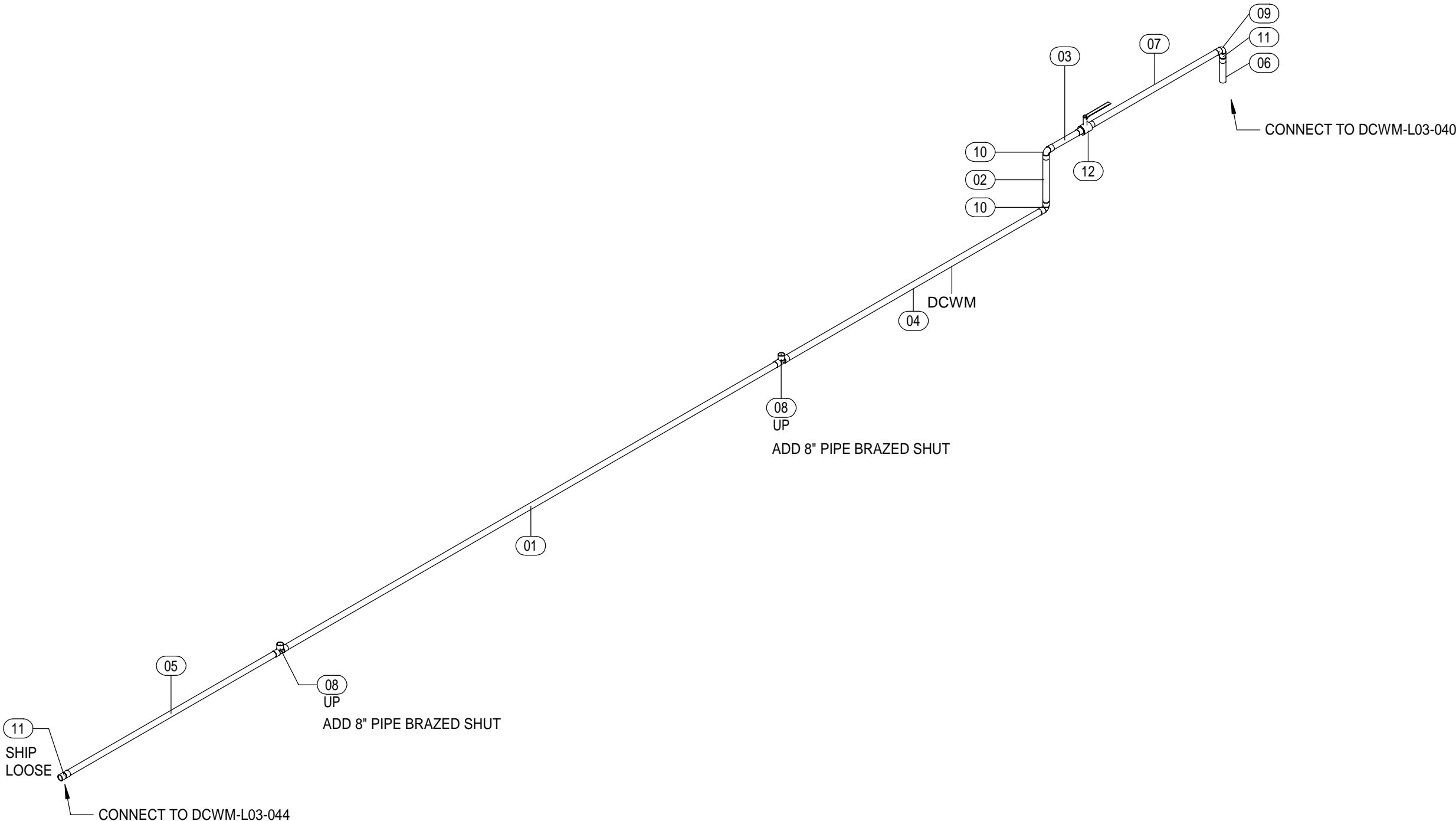
JOB:	WASH U NRB
TICKET:	PUHGR-L03-043
Drawn By: Author	
DATE: 08/16/21	DATE REQ:



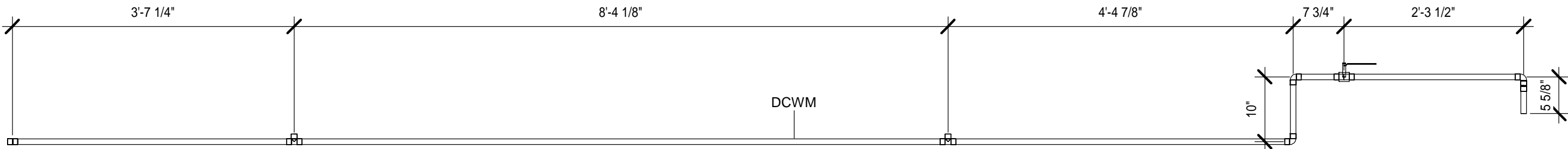
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

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

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper Pipe	8'-3 5/16"				1/2"
02	1	3/4"	Cerro Type L Hard Copper Pipe	0'-8 15/16"				1/2"
03	1	3/4"	Cerro Type L Hard Copper Pipe	0'-6 9/16"				1/2"
04	1	3/4"	Cerro Type L Hard Copper Pipe	4'-3 15/16"				1/2"
05	1	3/4"	Cerro Type L Hard Copper Pipe	3'-6 11/16"				1/2"
06	1	3/4"	Cerro Type L Hard Copper Pipe	0'-4 3/16"				1/2"
07	1	3/4"	Cerro Type L Hard Copper Pipe	2'-2 1/4"				1/2"
08	2	3/4"	Nibco Wrot 611 CxCxC Tee					1/2"
09	1	3/4"	Nibco Wrot 607-2 90 Deg Ftg Ell Close Rough FTGxC					1/2"
10	2	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1/2"
11	2	3/4"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1/2"
12	1	3/4"	Apollo 77CLF-140 LF-Brz 2pc FP SS-B&S Ball Valve Swt					1/2"



1 ISOMETRIC
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

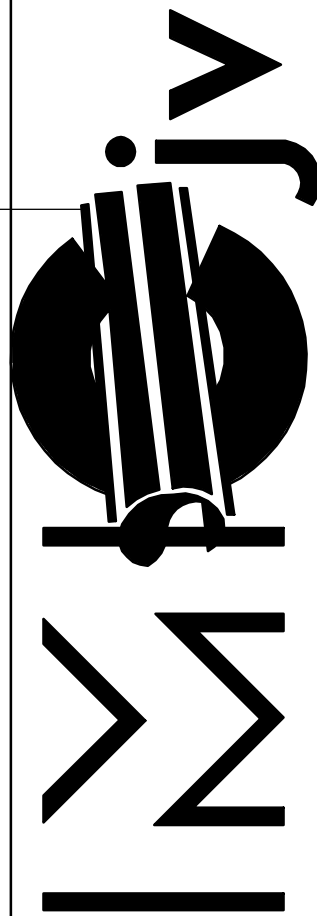
JOB: WASH U NRB

TICKET: DCWM-L03-043

Drawn By: Author

DATE: 08/09/21

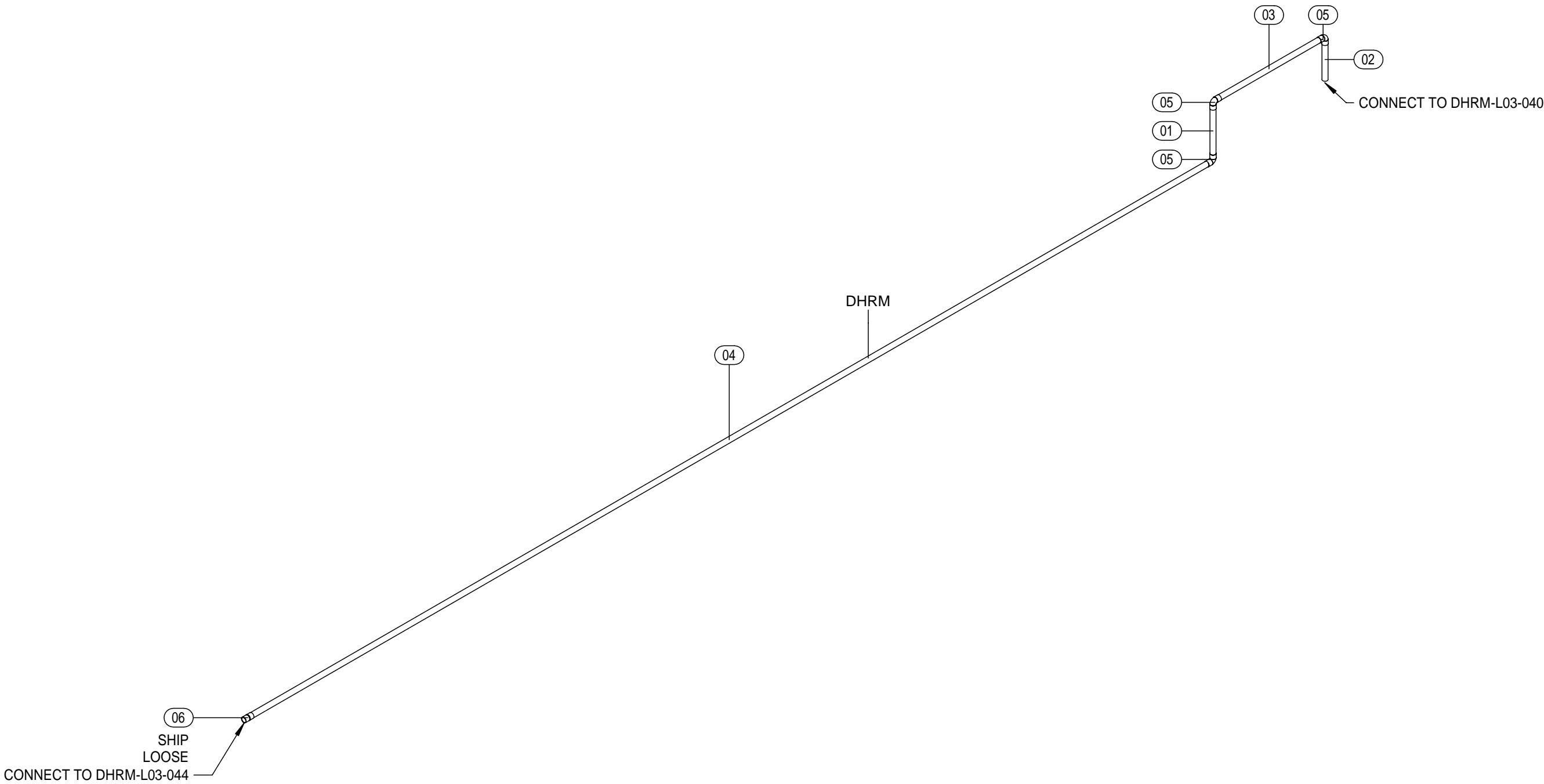
DATE REQ:



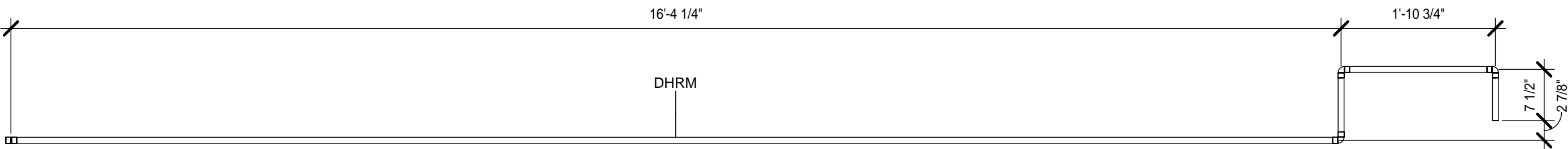
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PLF.rvt
09-08-2021 17:07:23

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper Pipe	0'-9 7/16"				1"
02	1	3/4"	Cerro Type L Hard Copper Pipe	0'-7 1/16"				1"
03	1	3/4"	Cerro Type L Hard Copper Pipe	1'-9 3/4"				1"
04	1	3/4"	Cerro Type L Hard Copper Pipe	16'-3 11/16"				1"
05	3	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"
06	1	3/4"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1"



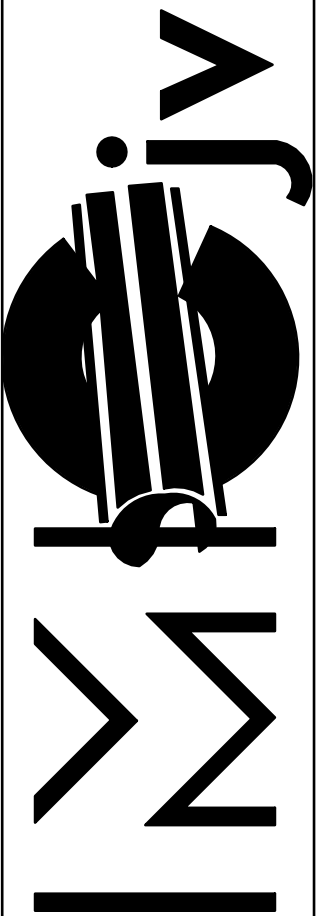
1 ISOMETRIC
SCALE:



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

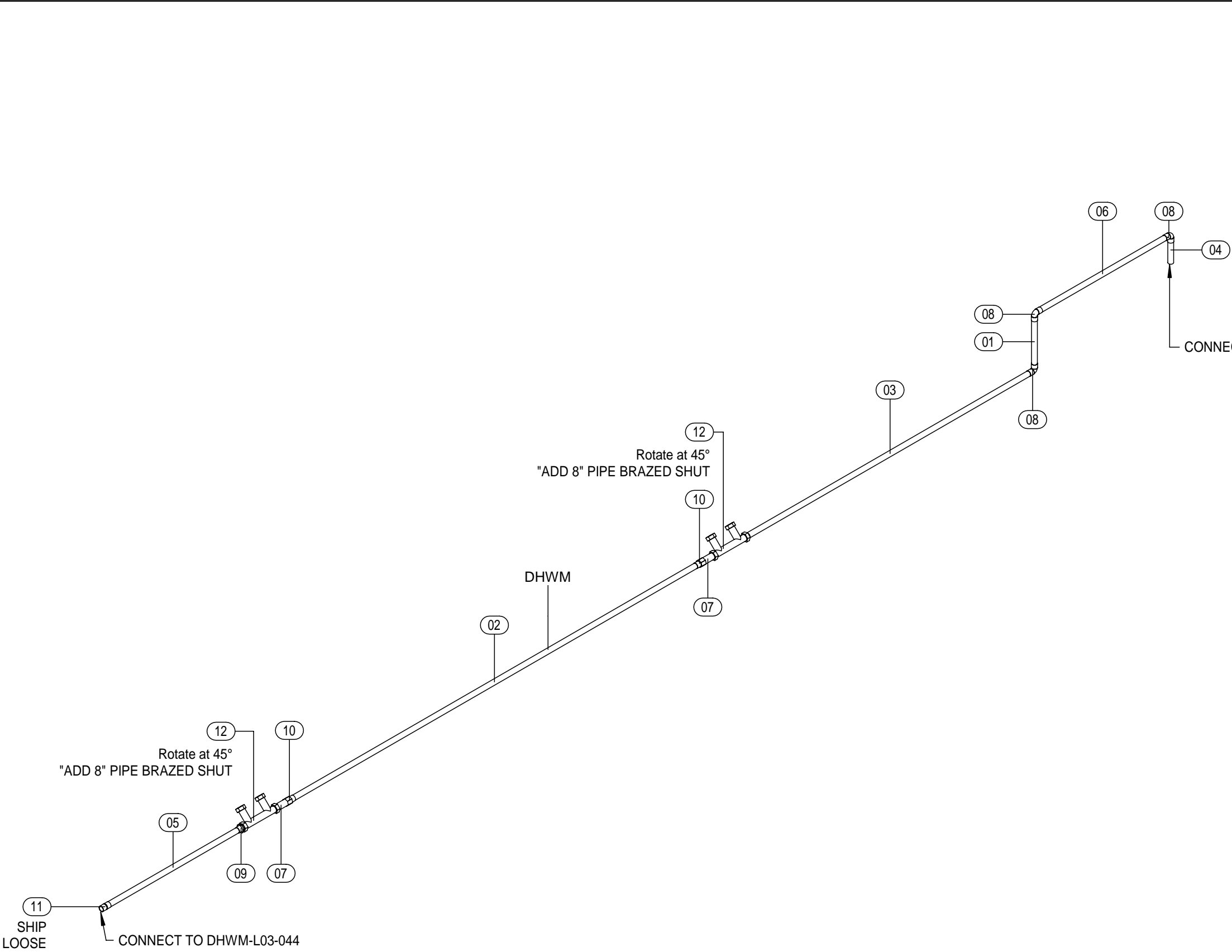
A1	A3	B1	B3
A2	A4	B2	B4

JOB:	WASH U NRB
TICKET:	DHRM-L03-043
Drawn By: Author	
DATE: 08/09/21	DATE REQ:



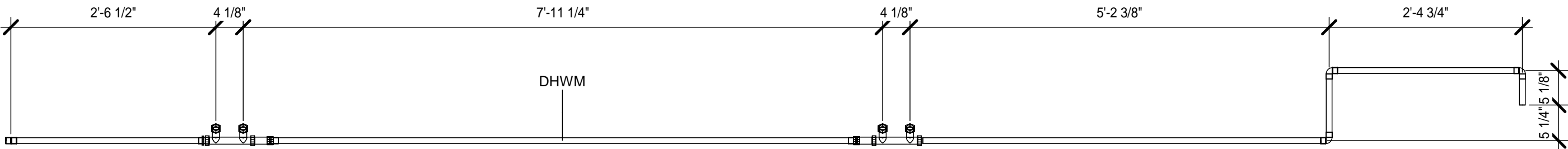
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PLF.rvt
09-08-2021 16:34:37



Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper Pipe	0'-9 7/16"				1"
02	1	3/4"	Cerro Type L Hard Copper Pipe	7'-2 3/8"				1"
03	1	3/4"	Cerro Type L Hard Copper Pipe	5'-0"				1"
04	1	3/4"	Cerro Type L Hard Copper Pipe	0'-4 5/8"				1"
05	1	3/4"	Cerro Type L Hard Copper Pipe	2'-4 5/8"				1"
06	1	3/4"	Cerro Type L Hard Copper Pipe	2'-3 3/4"				1"
07	2	3/4"	Victaulic No.647 TT Dielectric Transition Fitting					1"
08	3	3/4"	Nibco Wrot 607 90 Deg Ell CxC					1"
09	1	3/4"	Nibco Wrot 604 Adapter CxM					1"
10	2	3/4"	Nibco Wrot 603 Adapter CxF					1"
11	1	3/4"	Nibco Wrot 600 Dimpled Stop Coupling CxC					1"
12	2	3/4"	Kemper Kemper Fig651 20 KHS Flow-Splitter FPT					1"

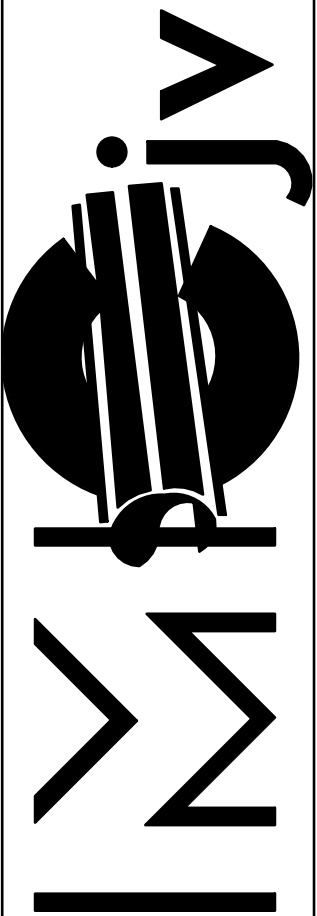
1 ISOMETRIC
SCALE:



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

A1	A3	B1	B3
A2	A4	B2	B4

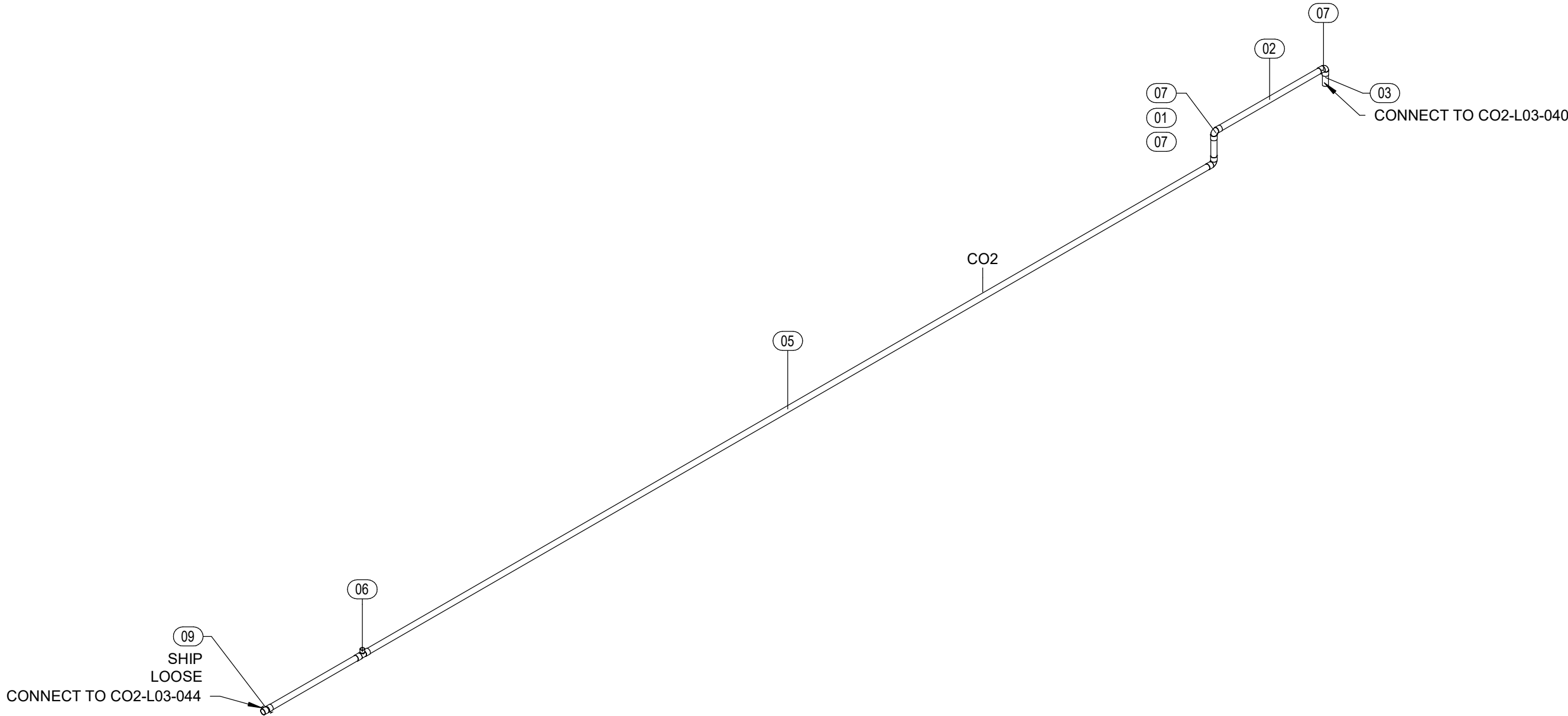
JOB:	WASH U NRB
TICKET:	DHWM-L03-043
Drawn By: Author	
DATE: 08/09/21	DATE REQ:



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

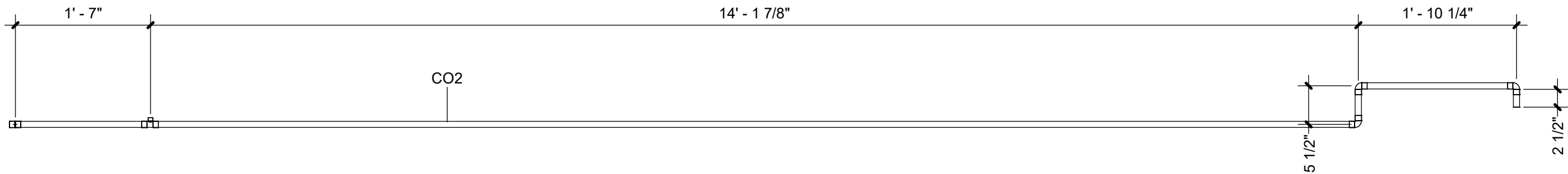
BIM 360://WUSM NRBWUSM_RB_PUF.rvt
8/19/2021 3:06:38 PM

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-4 7/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-9 1/4"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	0'-2 1/2"				
04	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-6 1/2"				
05	1	3/4"	Cerro Type L Hard Copper - CFOS	14'-1"				
06	1	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee					
07	3	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
08	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					
09	2	3/4"	Generic Silfos Brazed Joint					



1 ISOMETRIC

SCALE:

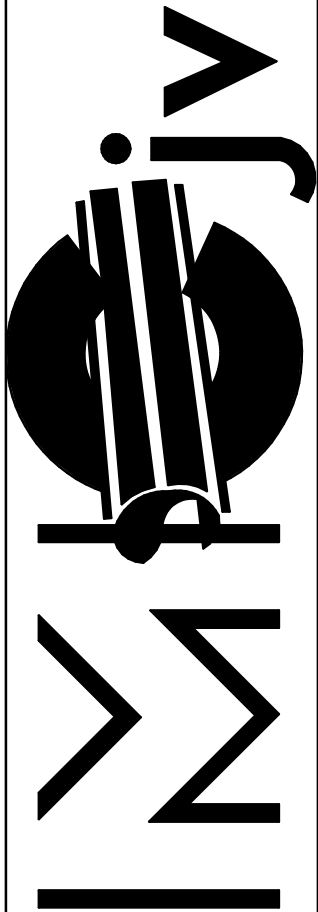


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

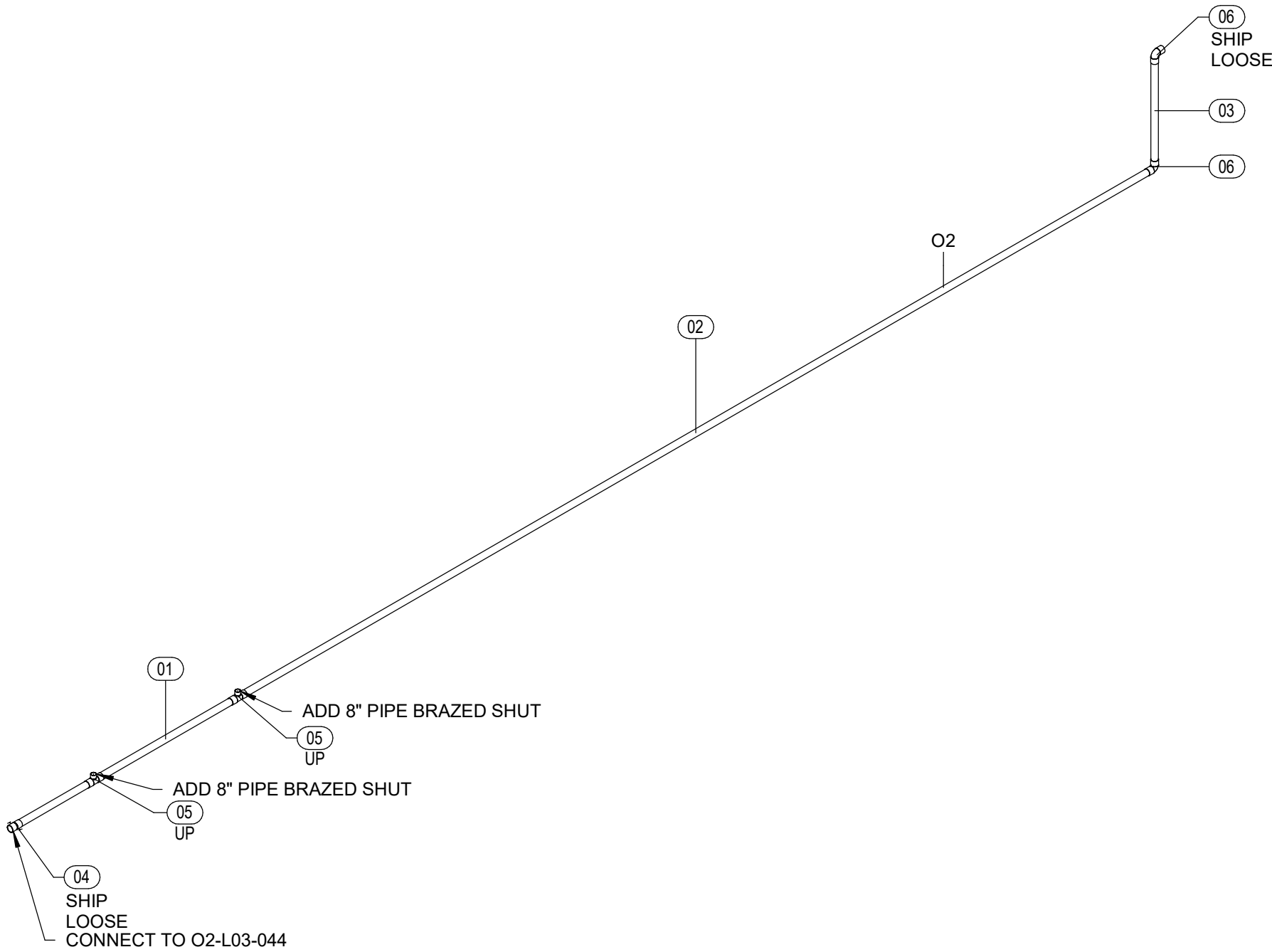
JOB: WASH U NRB
TICKET: CO2-L03-043
Drawn By: Author
DATE: 08/12/21
DATE REQ:



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

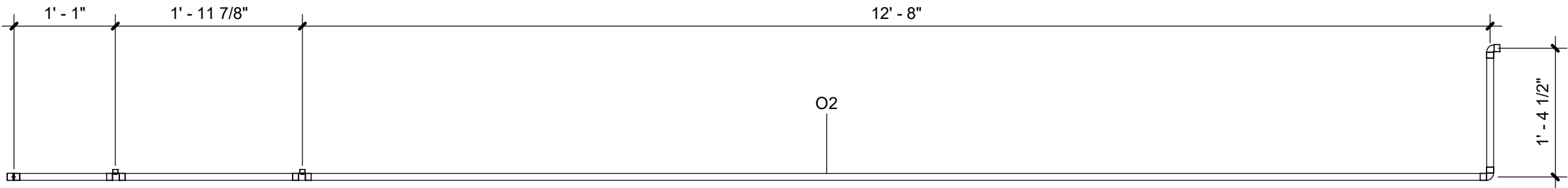
BIM 360://WUSM NRBWUSM_RB_PUF.rvt
8/19/2021 3:12:15 PM

Mark	Qty	Size	Description	Length	Strut Width	Rod 1	Rod 2	Insulation
01	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-10 15/16"				
02	1	3/4"	Cerro Type L Hard Copper - CFOS	12'-7 1/16"				
03	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-3 7/16"				
04	1	3/4"	Cerro Type L Hard Copper - CFOS	1'-0 5/8"				
05	2	3/4"x1/2"x3/4"	Nibco 611R-CB CFOS Wrot Copper Reducing Tee					
06	2	3/4"	Nibco 607-CB CFOS Wrot 90 Elbow					
07	1	3/4"	Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop					
08	2	3/4"	Generic Silfos Brazed Joint					



1 ISOMETRIC

SCALE:

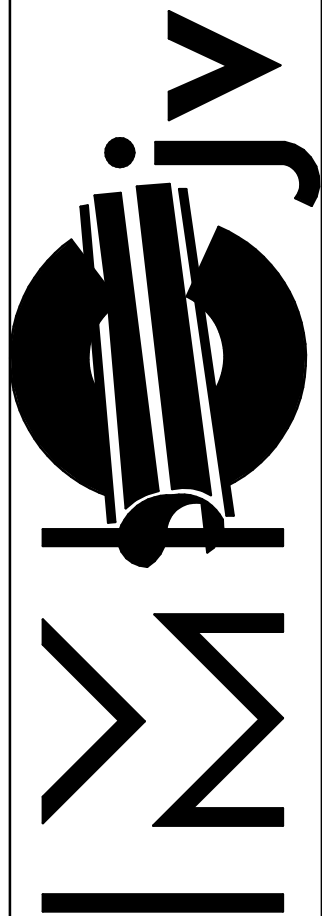


2 RIGHT ELEVATION

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

A1	A3	B1	B3
A2	A4	B2	B4

JOB: WASH U NRB
TICKET: O2-L03-043
Drawn By: Author
DATE: 08/17/21
DATE REQ:



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