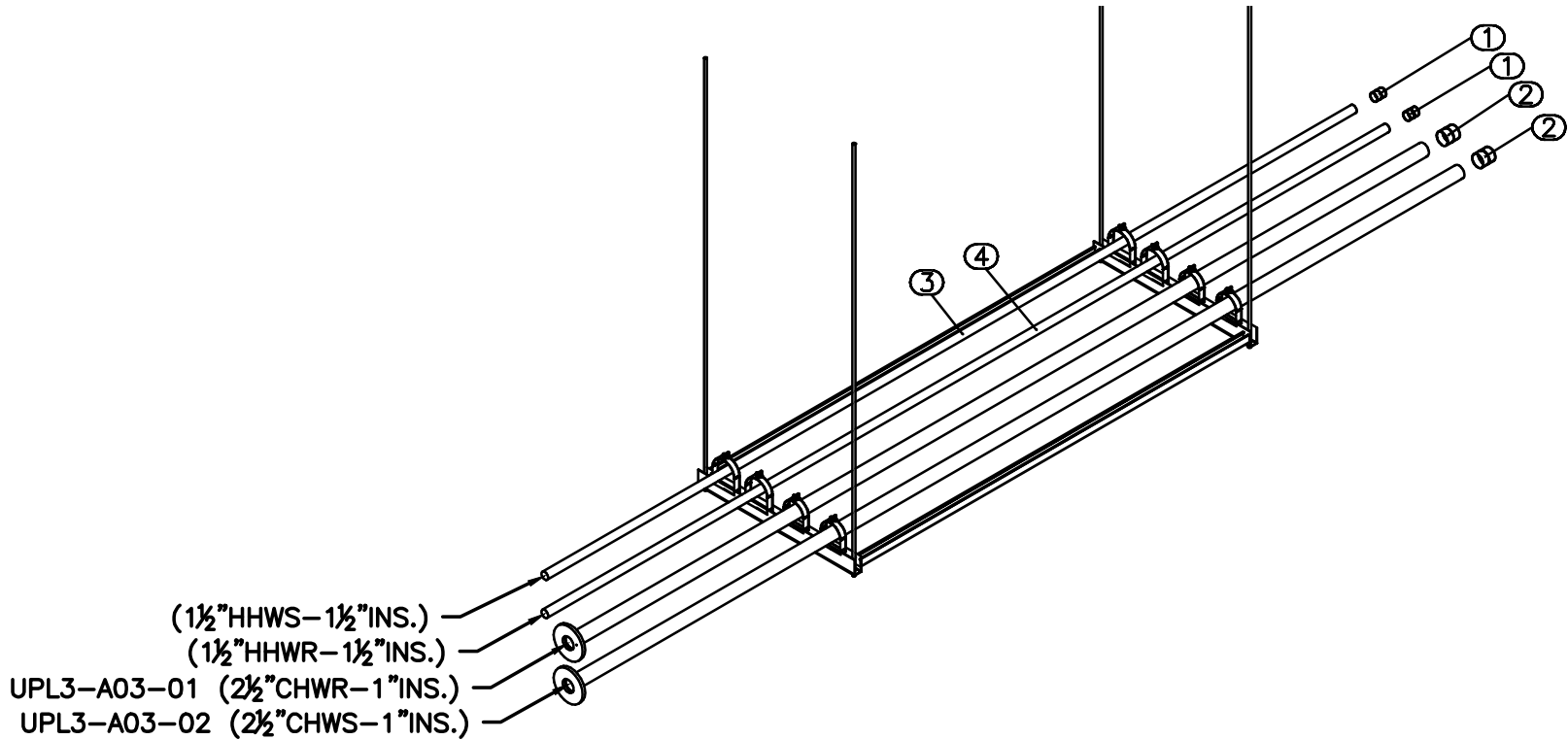


PLAN VIEW
SCALE: N.T.S.

2



ISOMETRIC VIEW
SCALE: N.T.S.

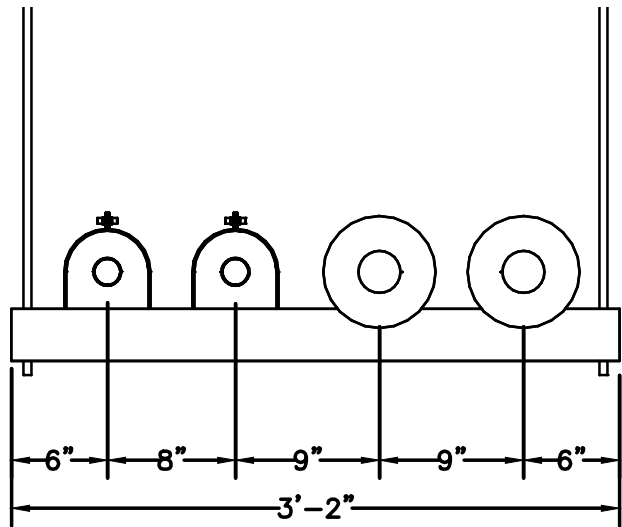
1

Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	16'-4 1/8"	196.153	1-1/2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	17'-0 3/16"	204.157	1-1/2

Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 601 No Stop Cplg CxC					1-1/2
2	2	Wrot 601 No Stop Cplg CxC					2-1/2



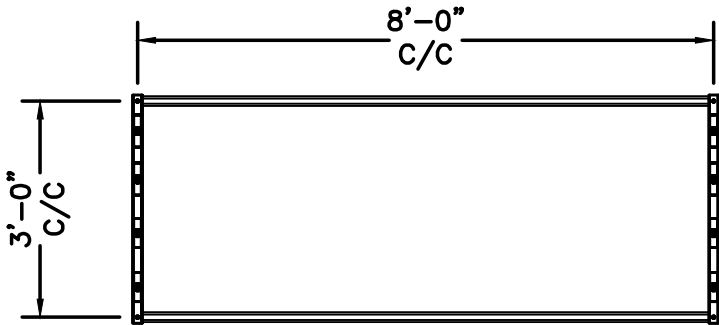
ELEVATION VIEW
SCALE: N.T.S.

3

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BIMCAD@murphy-stl.com

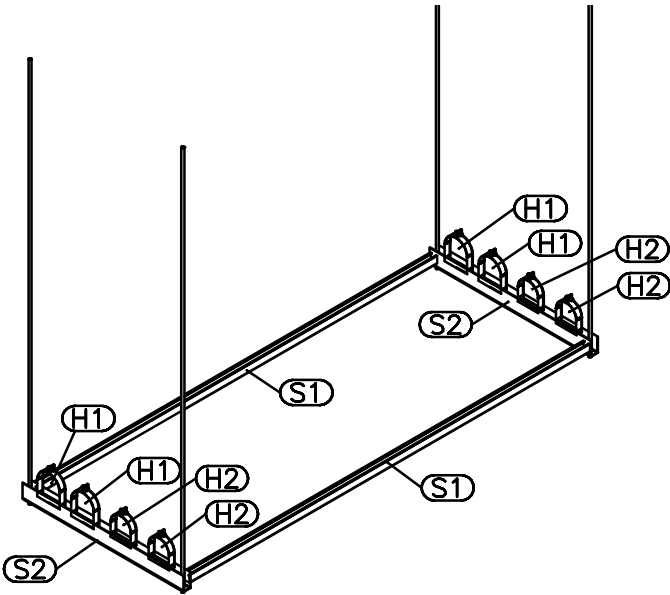
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<input type="checkbox"/>	FITTING ORIENTATION						
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT						
<input type="checkbox"/>	SPOOL IDENTIFICATION						
QA/QC ACCEPT		ASME	X-RAY	HYDRO TEST	PMHT	COMMENTS	
		NA	NA	NA	NA	MURPHY WPS#	
		0	REV	DATE	DESCRIPTION		
					DRN	CHK	APP

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING	
CHK			NRB	
APP			LVLO3 AHU SPOOLS	
JOB NO.	210140	SERVICE NAME		
REF.DWG.	WUSM C-03	RACK UPL3-A03		
DRAWING NO./TRACKING NO.	210140-A-UPL3-A03	QTY.	SHT/NO	REV
		1	1 of 1	0



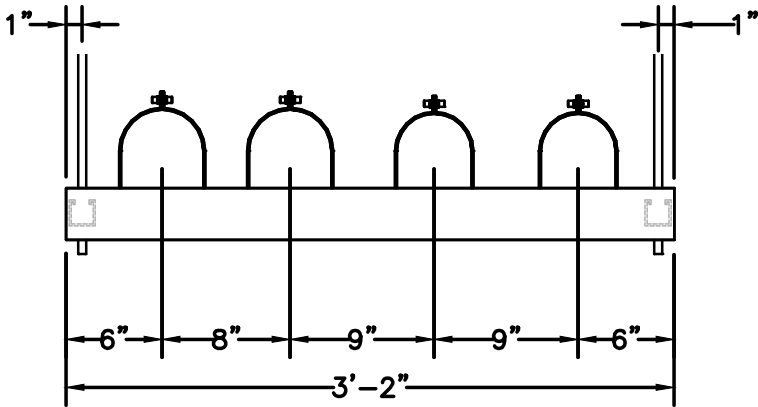
PLAN VIEW
SCALE: N.T.S.

2



ISOMETRIC VIEW
SCALE: N.T.S.

1



ELEVATION VIEW
SCALE: N.T.S.

3

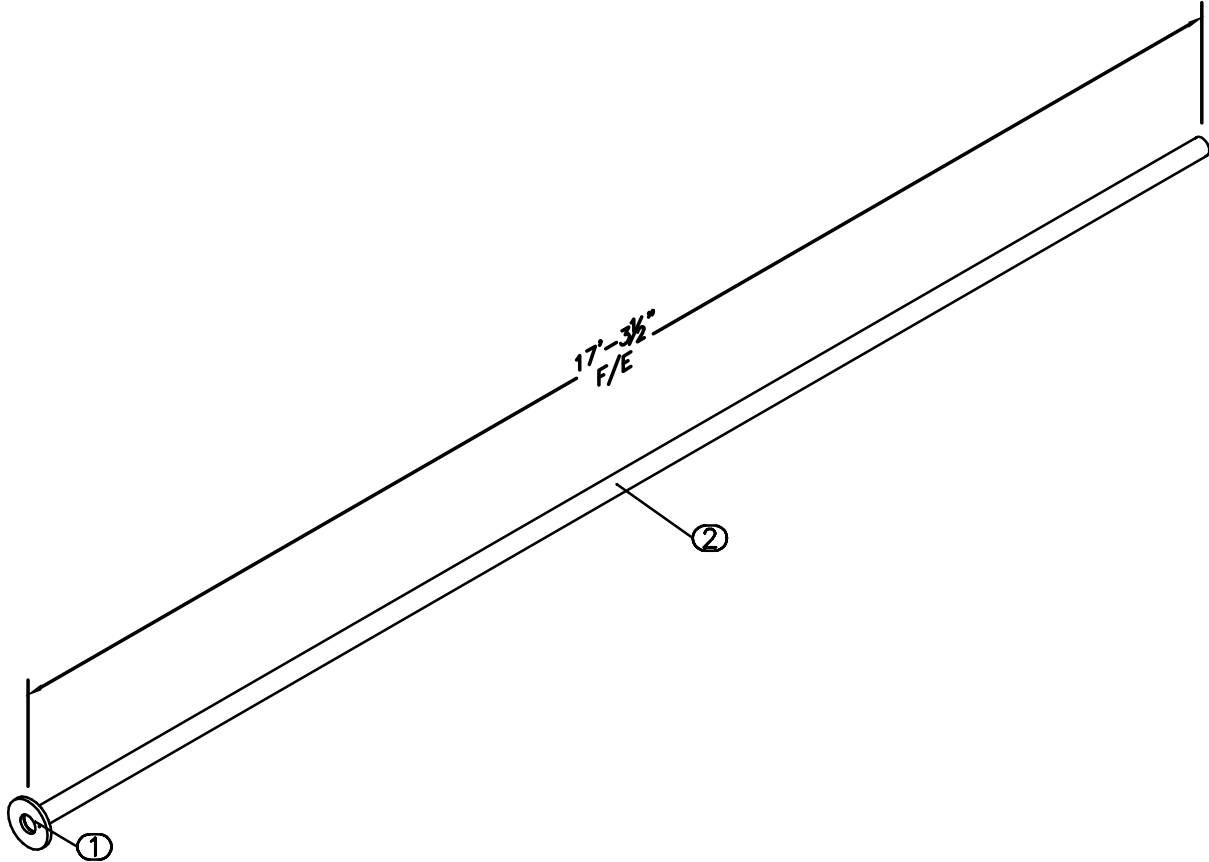
BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	4	1-1/2	
H2	928262	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	4	2-1/2	
S1	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	94 1/2"
S2	B22SHAGLV	1-5/8 GALV 12GA Bk/Bk 2in Slotted Unistrut	2	1-5/8x3-1/4	

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<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/> FITTING ORIENTATION		<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/> SPOOL IDENTIFICATION	
QA/QC ACCEPT		X-RAY		ASME		HYDRO TEST	
		NA		NA		NA	
SPEC.		NA		NA		NA	
REV		DATE		PWHT		COMMENTS	
0				NA		MURPHY WPS#	
DESCRIPTION		DRN		CHK		APP	

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING				
CHK			NRB				
APP			LVLO3 AHU SPOOLS				
JOB NO.	210140		SERVICE NAME				
REF.DWG.	WUSM C-03		RACK UPL3-A03-STEEL				
DRAWING NO./TRACKING NO.	210140-A-UPL3-A03-STL	1	QTY.	1	SHT/NO	1 OF 1	REV
							0



ISOMETRIC VIEW
SCALE: N.T.S.

1

Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	150lb 672 2pc LF Compainion Flange					2-1/2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	17'-2 7/8"	206.871	2-1/2

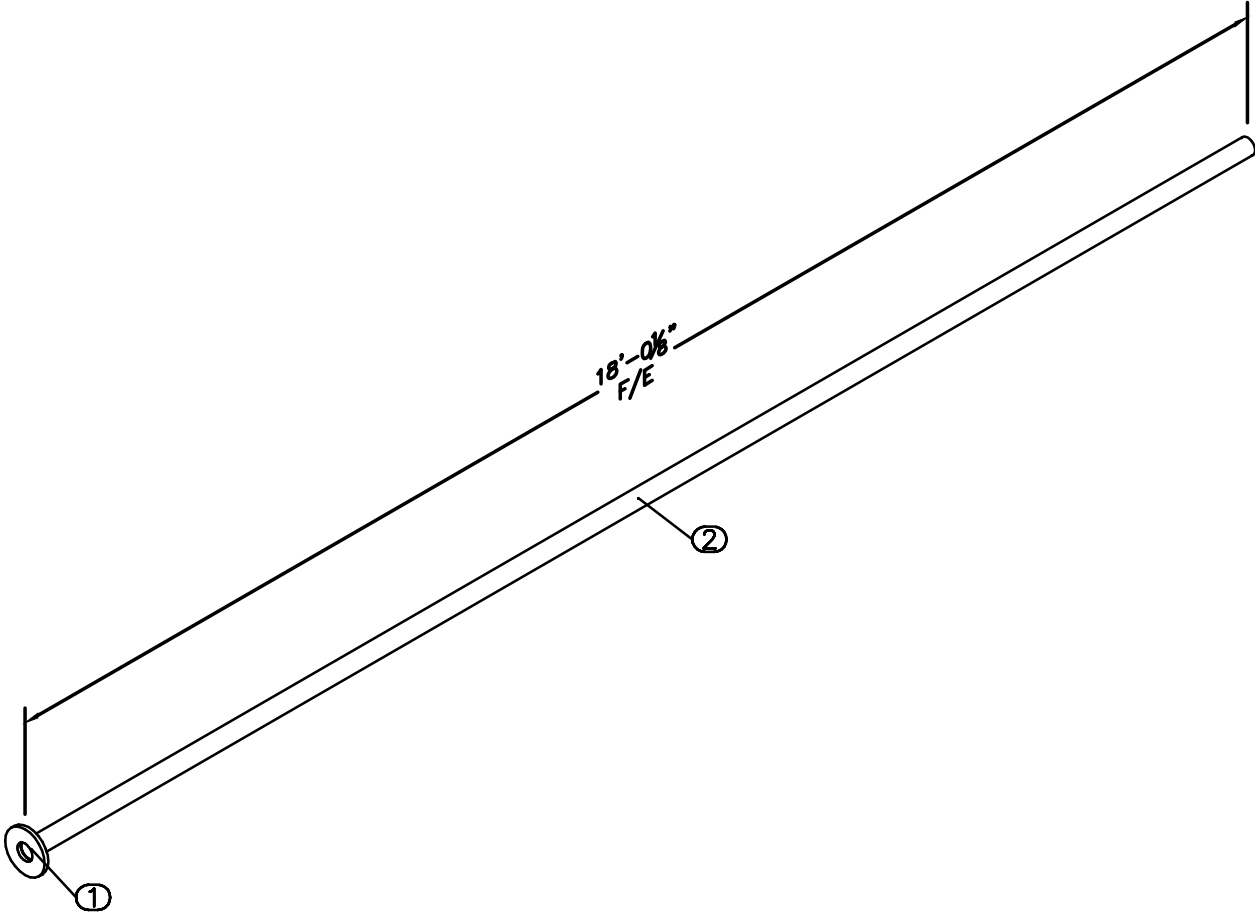
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<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION	
<input type="checkbox"/> FITTING ORIENTATION	
<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT	
<input type="checkbox"/> SPOOL IDENTIFICATION	

QA/QC ACCEPT		HYDRO TEST		PWHT		COMMENTS	
SPEC.	ASME	X-RAY	NA	NA	NA	MURPHY WPS#	
NA	NA	NA	NA	NA	NA		
0							
REV	DATE	DESCRIPTION		DRN	CHK	APP	

DRN BW	8/22/2021	WUSM RESEARCH BUILDING					
CHK		NRB					
APP		LVLO3 AHU SPOOLS					
JOB NO.	210140	SERVICE NAME					
REF.DWG.	WUSM C-03	CHWR					
DRAWING NO./TRACKING NO.	210140-A-UPL3-A03-01	QTY.	1	SHT/NO	1 of 1	REV	0



ISOMETRIC VIEW
SCALE: N.T.S.

Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	150lb 672 2pc LF Compainion Flange					2-1/2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	17'-11 1/2"	215.496	2-1/2

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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

QA/QC ACCEPT	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS		
	NA	NA	NA	NA	MURPHY WPS#		
0							
REV	DATE	DESCRIPTION			DRN	CHK	APP

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING		
CHK			NRB		
APP			LVLO3 AHU SPOOLS		
JOB NO.	210140	SERVICE NAME	CHWS		
REF.DWG.	WUSM C-03	QTY.	SHT/NO	REV	
DRAWING NO./TRACKING NO.		1	1 of 1	0	
210140-A-UPL3-A03-02					