

PLAN VIEW
SCALE: N.T.S.

2

- UPL3-A01-01 (2"HHWS-1 1/2"INS.)
- UPL3-A01-02 (2"HHWR-1 1/2"INS.)
- UPL3-A01-03 (3"CHWR-1"INS.)
- UPL3-A01-04 (3"CHWS-1"INS.)

ISOMETRIC VIEW
SCALE: N.T.S.

1

TEMPORARY SUPPORT
FOR SHIPPING ONLY

Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 601 No Stop Cplg CxC					2
2	4	Style 107N QuickVic EHP Pnt Rigid Cpl					3

MURPHY
SINCE 1907
CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL
1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

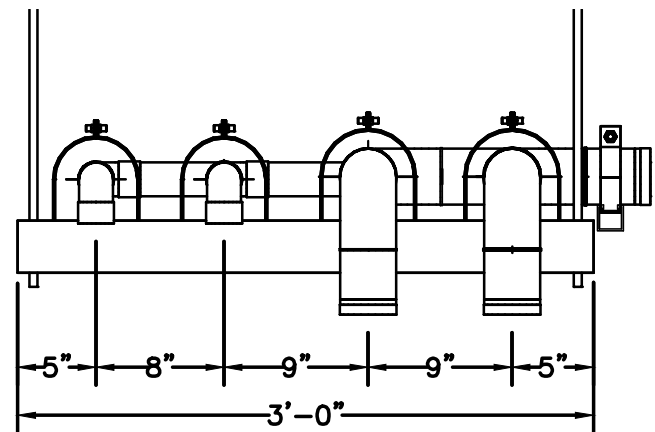
☐ FLANGE WEIGHT/ORIENTATION
☐ FITTING ORIENTATION
☐ BOLTS/CPLG'S/TH'D TIGHT
☐ SPOOL IDENTIFICATION

QA/QC ACCEPT

REV	DATE	DESCRIPTION	DRN	CHK	APP
0					

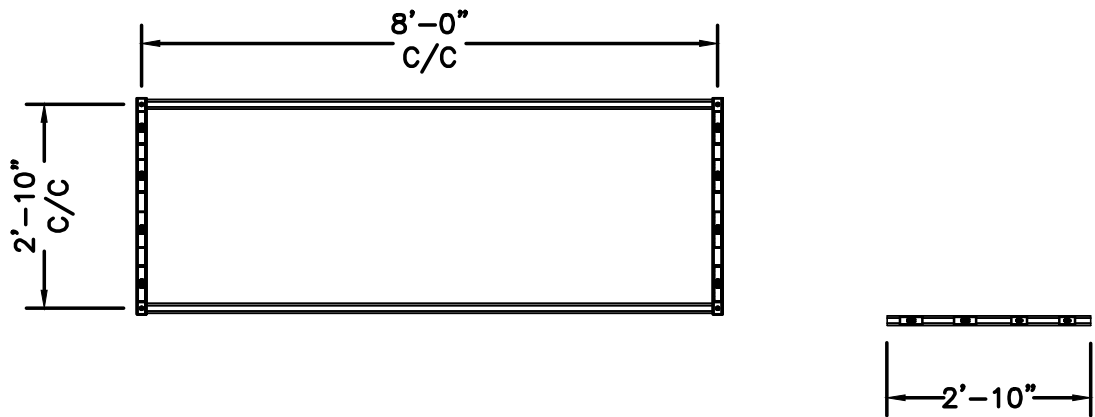
WUSM RESEARCH BUILDING
NRB
LV03 AHU SPOOLS

DRN	BW	8/22/2021	QTY.	SHT/NO	REV
CHK			1	1 of 1	0
APP					
JOB NO.	210140				
REF.DWG.	WUSM C-03				
DRAWING NO./TRACKING NO.	210140-A-UPL3-A01				



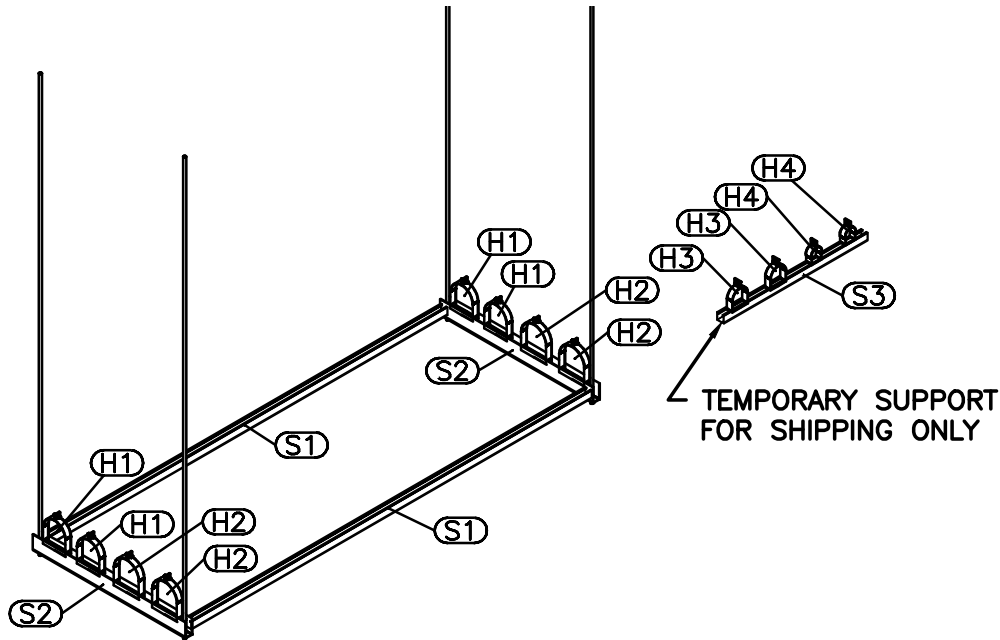
ELEVATION VIEW
SCALE: N.T.S.

3



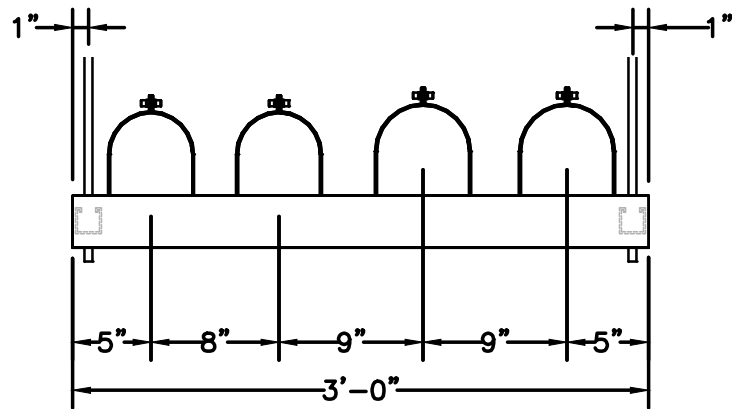
PLAN VIEW
SCALE: N.T.S.

2



ISOMETRIC VIEW
SCALE: N.T.S.

1



ELEVATION VIEW
SCALE: N.T.S.

3

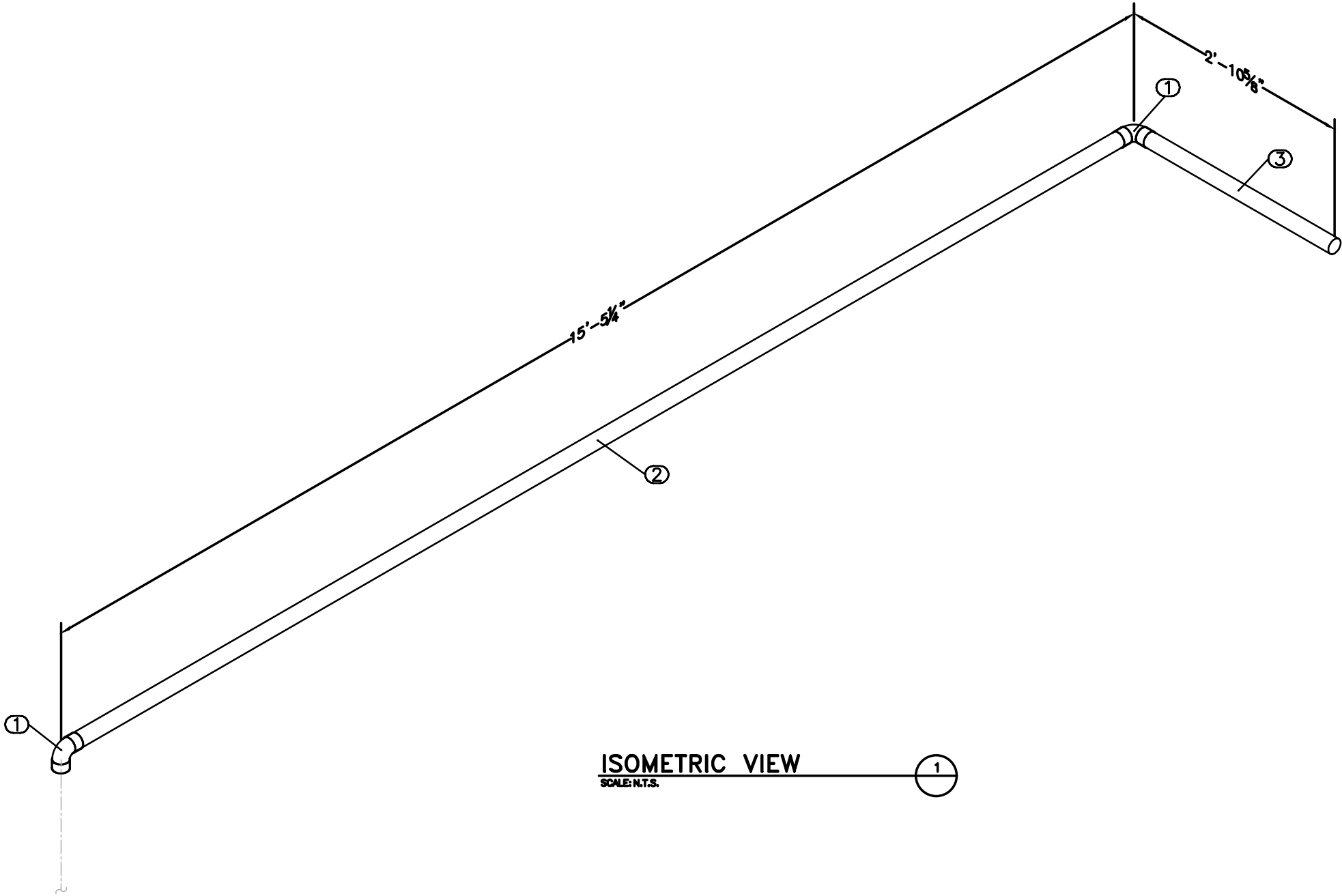
BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	4	1-1/2	
H2	928350	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_IPS	4	3	
H3	B2015 ZN	B2000 ZN Sch 40 Pipe Clamp	2	3	
H4	B2038 DCU	B2000 Copper Tubing Clamp DURA COPPER	2	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	
S3	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	1	1-5/8x1-5/8	34"

MURPHY
CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

<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		SPEC.		ASME		X-RAY	
		NA		NA		NA	
		0		REV		DATE	
						DESCRIPTION	
						DRN	
						CHK	
						APP	

WUSM RESEARCH BUILDING		NRB		LVLO3 AHU SPOOLS	
REF.DWG.		WUSM C-03		RACK UPL3-A01-STEEL	
DRAWING NO./TRACKING NO.		210140-A-UPL3-A01-STL		REV	
JOB NO.		210140		SHT/NO	
8/22/2021		1		1 of 1	
0		0		0	



ISOMETRIC VIEW
SCALE: N.T.S.

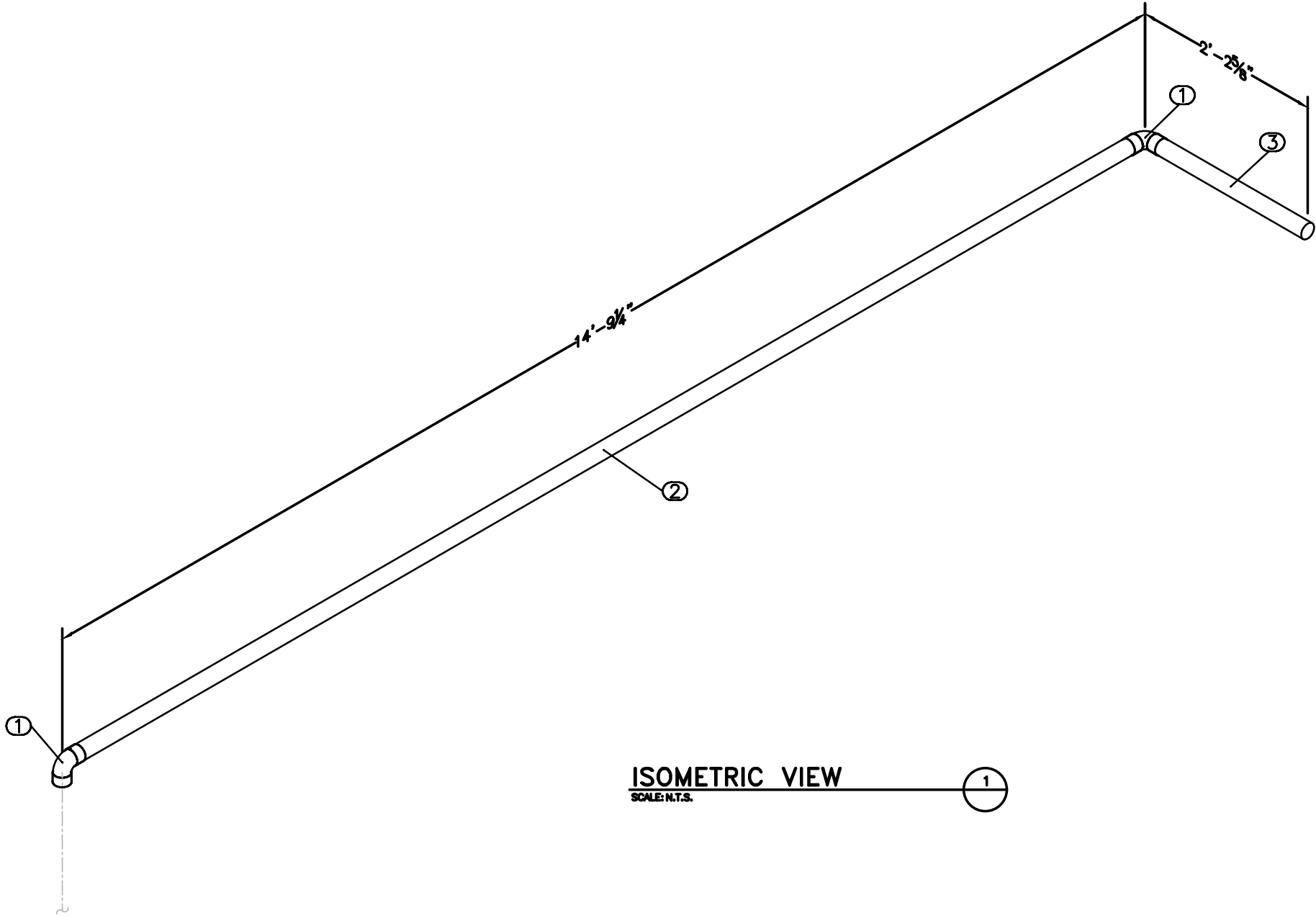
Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 607 90 Deg Ell CxC					2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	15'-2 7/16"	182.436	2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-9 3/16"	33.213	2

MURPHY
SINCE 1907

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

DRN BW	8/22/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT				<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION				
CHK		NRB								<input type="checkbox"/> FITTING ORIENTATION				
APP		LVLO3 AHU SPOOLS								<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT				
JOB NO.	210140	SERVICE NAME				SPEC.				<input type="checkbox"/> SPOOL IDENTIFICATION				
REF.DWG.	WUSM C-03	HHWS				NA		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS		
DRAWING NO./TRACKING NO. 210140-A-UPL3-A01-01		QTY.		SHT/NO		REV		NA		NA		MURPHY WPS#		
		1	1	1	1	0	0	0	0					
		DATE		DESCRIPTION		REV		DATE		DRN		APP		



ISOMETRIC VIEW
SCALE: N.T.S.

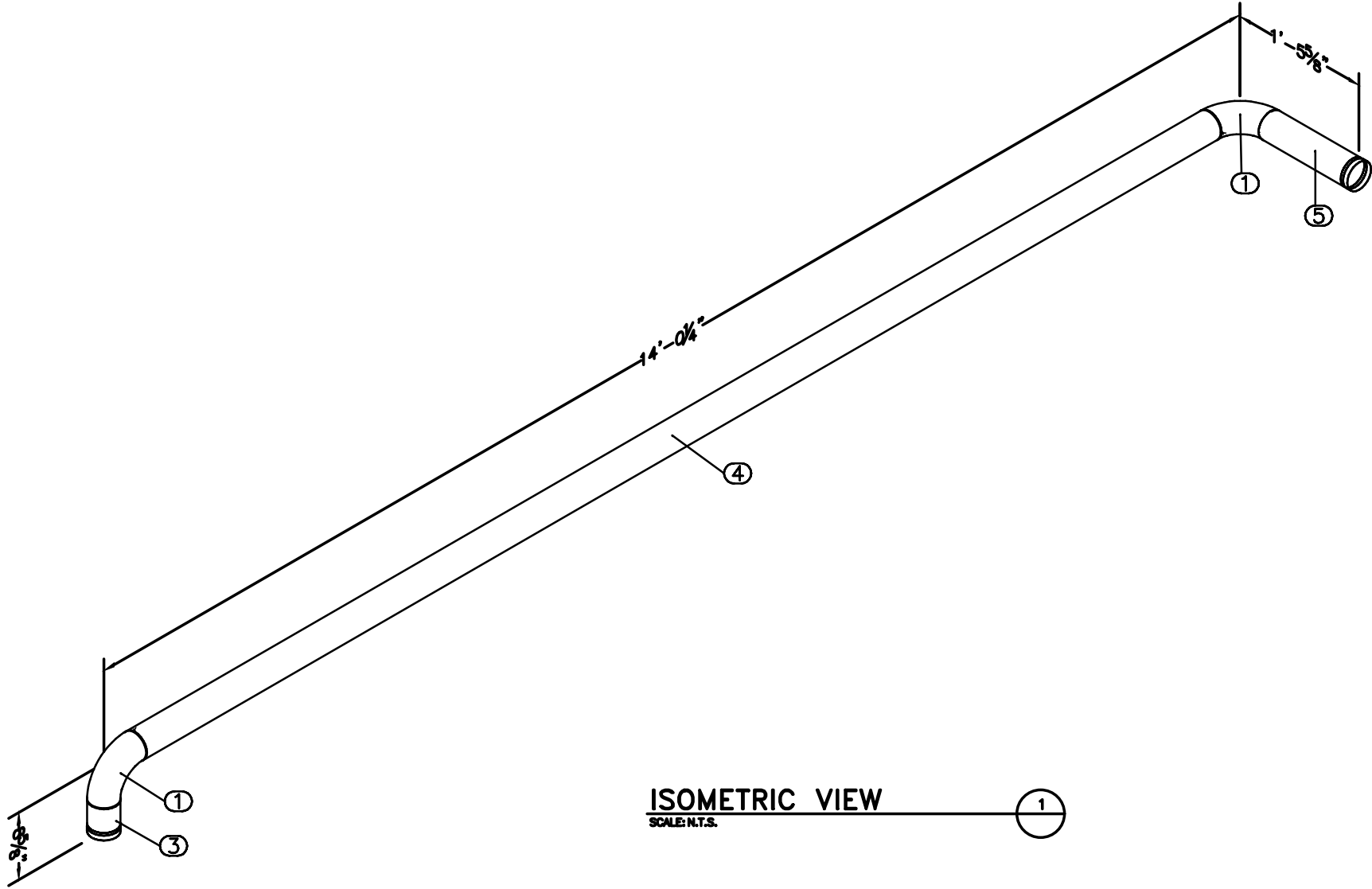
Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	2	Wrot 607 90 Deg Ell CxC					2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	14'-6 7/16"	174.436	2
3	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-1 1/4"	25.223	2

MURPHY
SINCE 1907

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

DRN	BW	8/22/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT				<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION				
CHK			NRB				<input type="checkbox"/> FITTING ORIENTATION				<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT				
APP			LVLO3 AHU SPOOLS								<input type="checkbox"/> SPOOL IDENTIFICATION				
JOB NO.	210140		SERVICE NAME				SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS			
REF.DWG.	WUSM C-03		HHWR				NA	NA	NA	NA	NA	MURPHY WPS#			
DRAWING NO./TRACKING NO.			QTY.	SHT/NO	REV	DESCRIPTION				DRN	CHK	APP			
210140-A-UPL3-A01-02			1	1 of 1	0										



ISOMETRIC VIEW
SCALE: N.T.S.

Murphy-PFFS-SPOOL-BOM								
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
2	1	Style 107N QuickVic EHP Pnt Rigid Cpl					3	
1	2	Std Wt SA234 WPB CS BW LR 90 Deg El					3	
4	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	13'-3"	159.000	3	
5	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	1'-1"	13.000	3	
3	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	4"	4.000	3	

MURPHY
CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

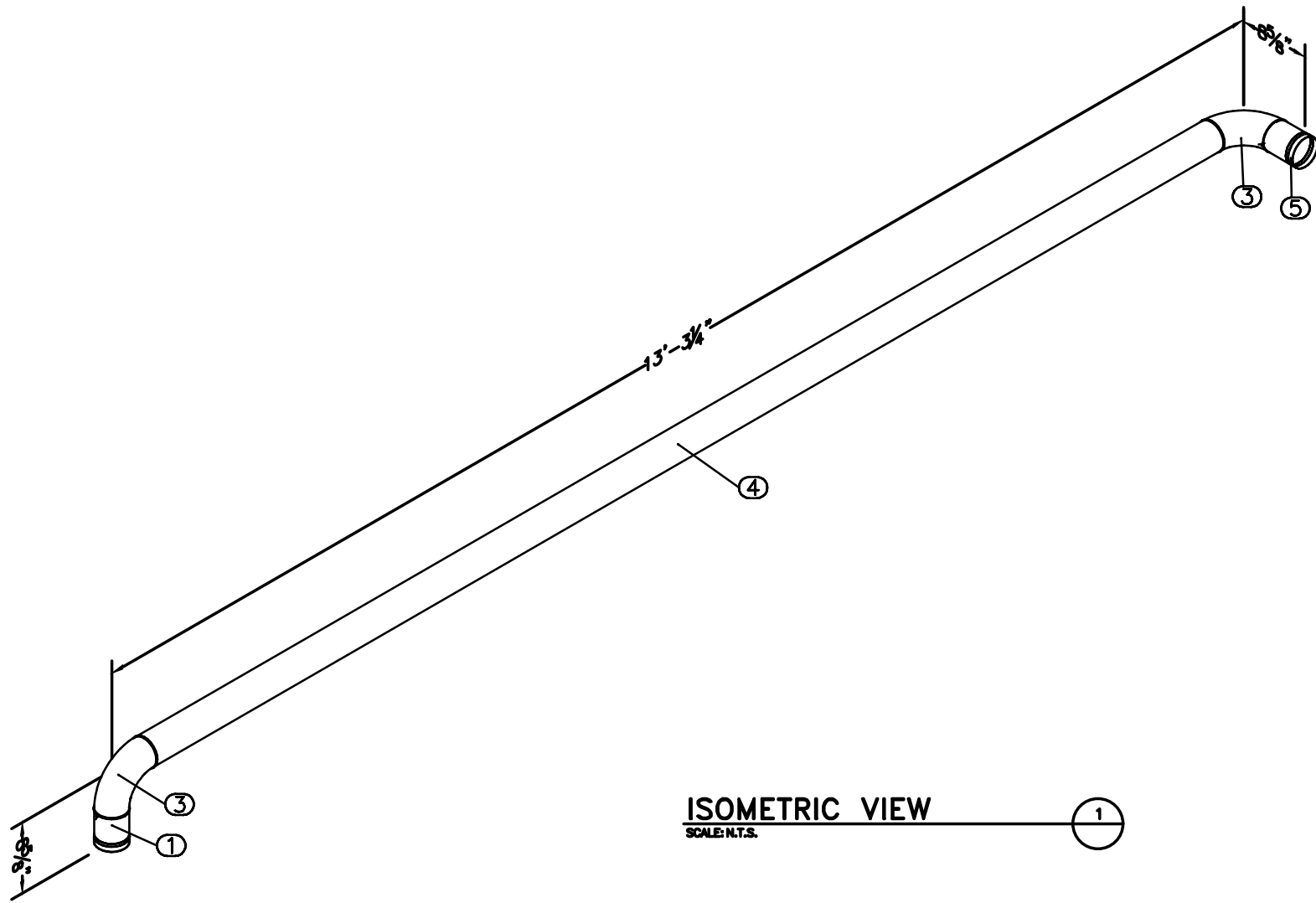
1233 N. Price Rd.
St. Louis, MO 63132-2303
314-997-6600 phone
BIMCAD@murphy-stl.com

SINCE 1907

<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		PWHT		COMMENTS	
		NA	NA	NA	NA	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	CHWR			
DRAWING NO./TRACKING NO.	210140-A-UPL3-A01-03	QTY.	1	SHT/NO	1 of 1
		REV	0		



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Style 107 EHP Pnt QuickVic Rigid Coupling					3
3	2	Std Wt SA234 WPB CS BW LR 90 Deg Ell					3
4	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	12'-6"	150.000	3
5	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	4"	4.000	3
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	4"	4.000	3

DRN BW		8/22/2021		WUSM RESEARCH BUILDING				QA/QC ACCEPT										FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>
CHK				NRB														FITTING ORIENTATION		<input type="checkbox"/>
APP				LVL03 AHU SPOOLS														BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>
JOB NO.		210140		SERVICE NAME														SPOOL IDENTIFICATION		<input type="checkbox"/>
REF.DWG.		WUSM C-03		CHWS				SPEC.		ASME		X-RAY		HYDRO TEST		PWHT		COMMENTS		
								NA		NA		NA		NA		NA		MURPHY WPS#		
DRAWING NO./TRACKING NO.		210140-A-UPL3-A01-04		QTY.		SHT/NO		REV												
				1		1 of 1		0		0										
								REV		DATE		DESCRIPTION				DRN		CHK		
																		APP		