

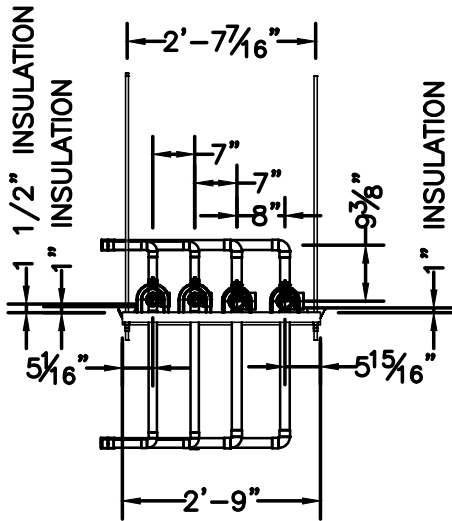
BOM-STEEL

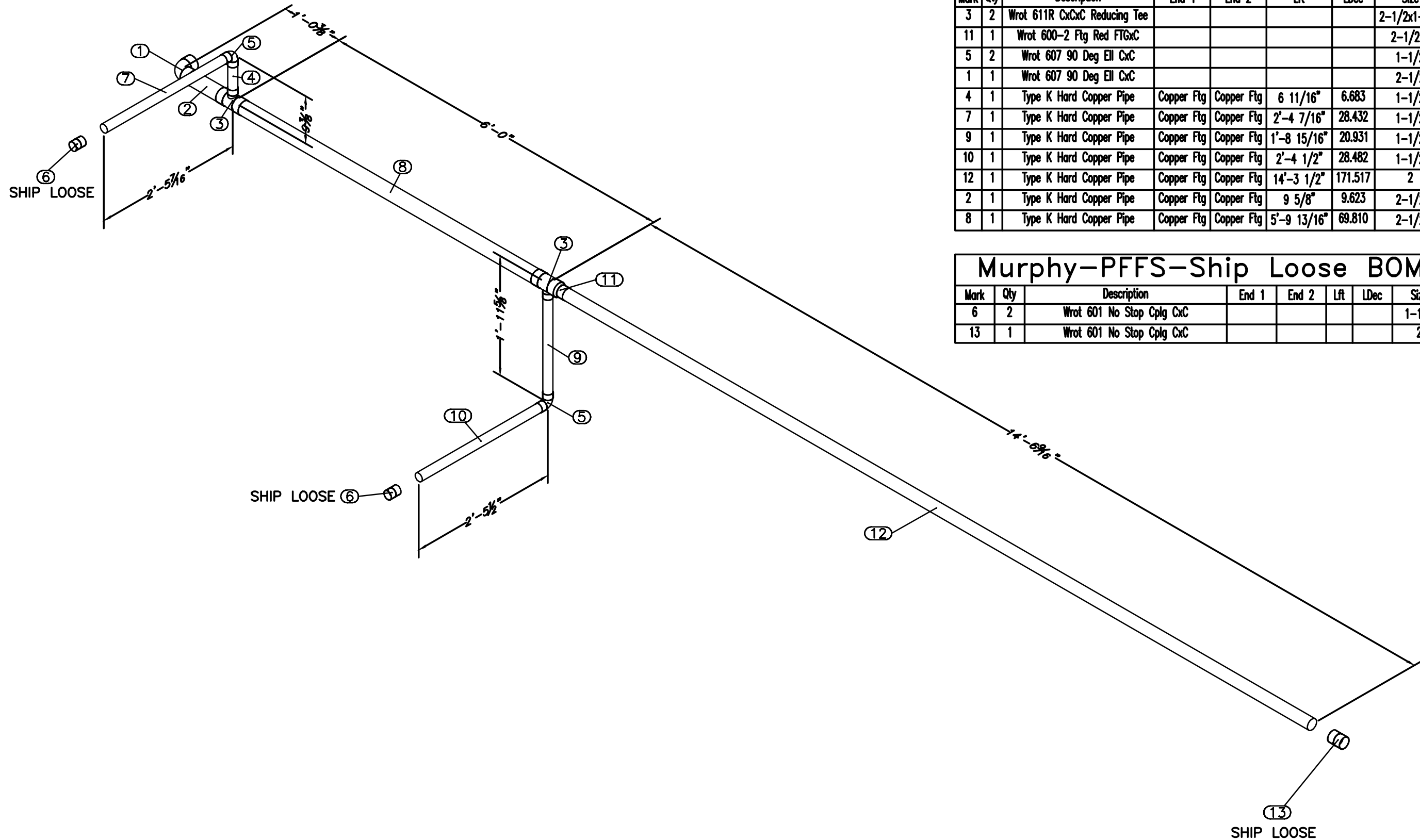
Item No	Order	Description	Qty	Size	Steel L
H1	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	2	1-1/2	
H2	928262	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	2	2-1/2	
H3	928137	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	6	1-1/4	
H4	928212	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	6	2	
S1	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	4	1-5/8x1-5/8	33"

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SINCE 1907
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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	HYDRO TEST	FWHT	COMMENTS	
NA	NA	NA	NA	NA	MURPHY WPS#	
0	REV	DATE	DESCRIPTION	DRN	CHK	APP

DRN	JMM	4/13/2021	WUSM RESEARCH BUILDING
CHK			NRB
APP			
JOB NO.	210140	SERVICE NAME	UPLVL-01 RACK
REF.DWG.		QTY.	1
DRAWING NO./TRACKING NO.	210140-A-UPL1-4E	SHT/NO	1 OF 1
		REV	0





Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	2	Wrot 611R CxCxC Reducing Tee					2-1/2x1-1/2
11	1	Wrot 600-2 Ftg Red FTxC					2-1/2x2
5	2	Wrot 607 90 Deg Ell CxC					1-1/2
1	1	Wrot 607 90 Deg Ell CxC					2-1/2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 11/16"	6.683	1-1/2
7	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-4 7/16"	28.432	1-1/2
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-8 15/16"	20.931	1-1/2
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-4 1/2"	28.482	1-1/2
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	14'-3 1/2"	171.517	2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	9 5/8"	9.623	2-1/2
8	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	5'-9 13/16"	69.810	2-1/2

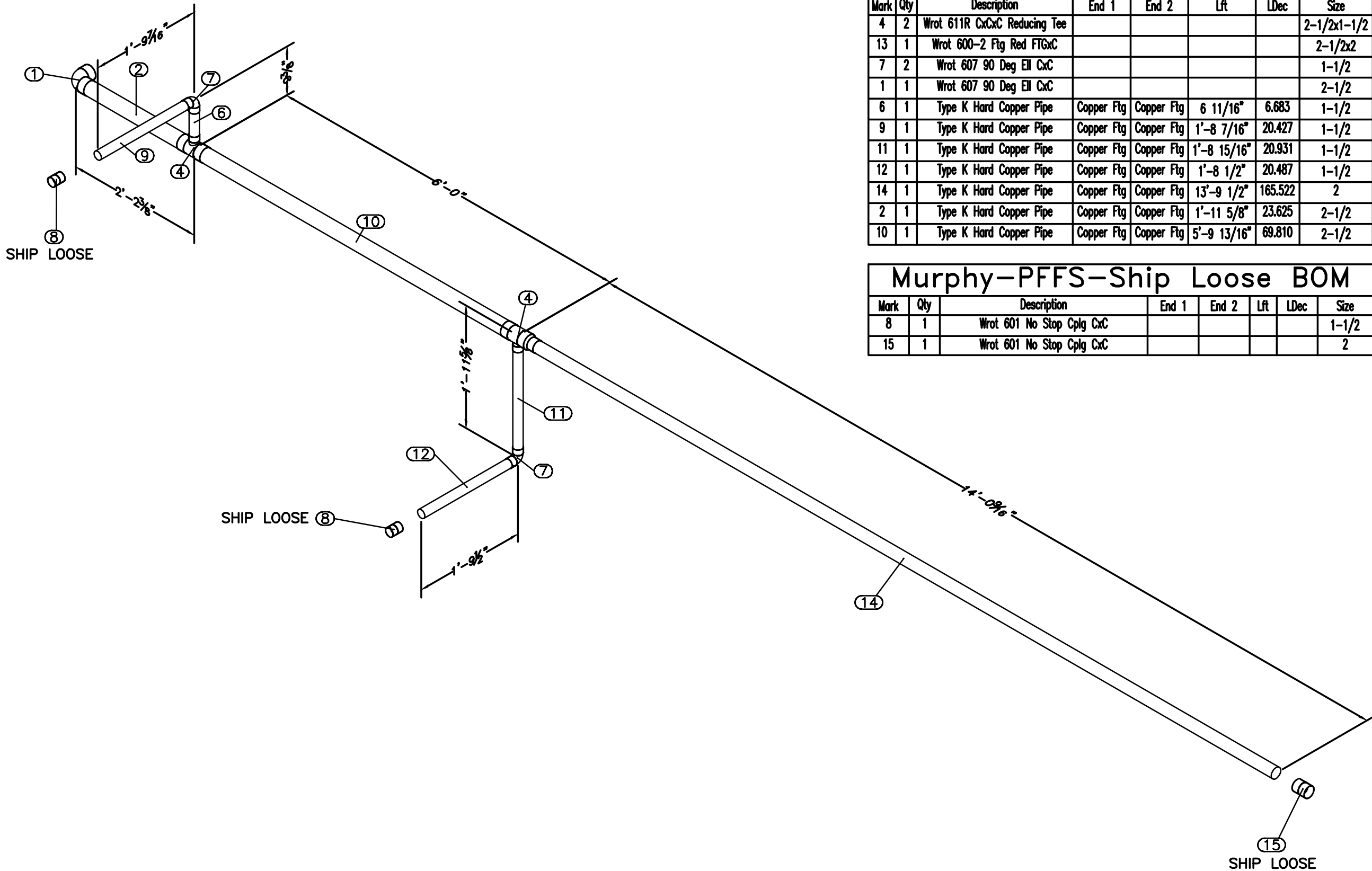
Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
6	2	Wrot 601 No Stop Cplg CxC					1-1/2
13	1	Wrot 601 No Stop Cplg CxC					2

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DRN JMM	4/15/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>					
CHK		NRB								FITTING ORIENTATION				<input type="checkbox"/>					
APP										BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>					
JOB NO.	210140									SPOOL IDENTIFICATION				<input type="checkbox"/>					
REF.DWG.		SERVICE NAME				UPLVL-01 RACK				SPEC.		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS			
										NA		NA	NA	NA	NA	MURPHY WPS#			
										0									
DRAWING NO./TRACKING NO.		QTY.		SHT/NO		REV				REV		DATE		DESCRIPTION		DRN		CHK	APP
210140-A-UPL1-4E-1		1		1 OF 1		0													



Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
4	2	Wrot 611R CxCxC Reducing Tee					2-1/2x1-1/2
13	1	Wrot 600-2 Ftg Red FTGxC					2-1/2x2
7	2	Wrot 607 90 Deg Ell CxC					1-1/2
1	1	Wrot 607 90 Deg Ell CxC					2-1/2
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 11/16"	6.683	1-1/2
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-8 7/16"	20.427	1-1/2
11	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-8 15/16"	20.931	1-1/2
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-8 1/2"	20.487	1-1/2
14	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	13'-9 1/2"	165.522	2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-11 5/8"	23.625	2-1/2
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	5'-9 13/16"	69.810	2-1/2

Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
8	1	Wrot 601 No Stop Cplg CxC					1-1/2
15	1	Wrot 601 No Stop Cplg CxC					2

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☐ FLANGE WEIGHT/ORIENTATION

☐ FITTING ORIENTATION

☐ BOLTS/CPLG'S/TH'D TIGHT

☐ SPOOL IDENTIFICATION

QA/QC ACCEPT

WUSM RESEARCH BUILDING
NRB

SERVICE NAME
UPLVL-01 RACK

REF.DWG.

DRAWING NO./TRACKING NO.
210140-A-UPL1-4E-2

SPEC. NA

ASME NA

X-RAY NA

HYDRO TEST NA

PMHT NA

COMMENTS

MURPHY WPS#

0 REV

DATE

DESCRIPTION

DRN

CHK

APP

DRN JMM

4/15/2021

CHK

APP

JOB NO. 210140

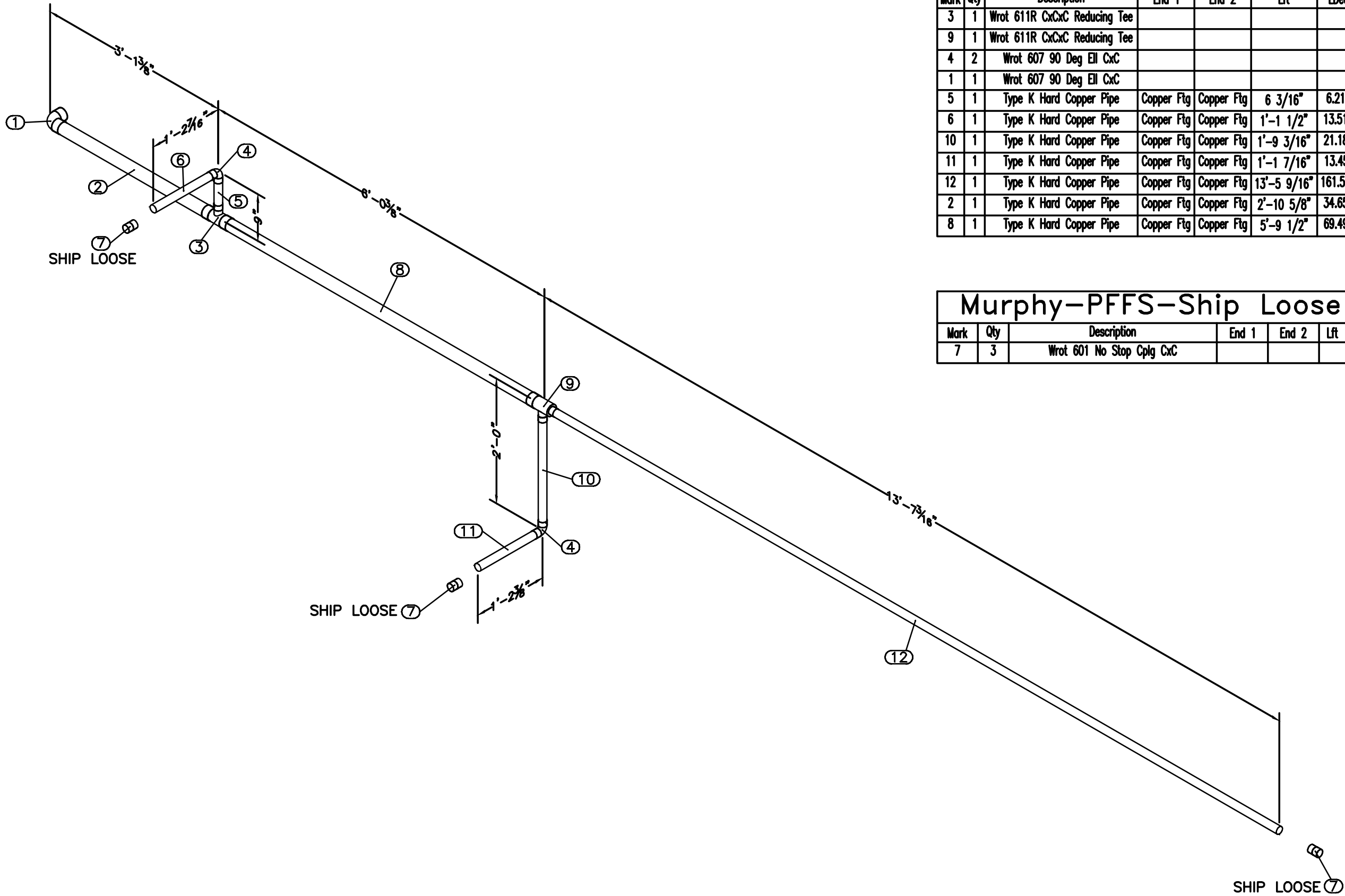
REF.DWG.

DRAWING NO./TRACKING NO.
210140-A-UPL1-4E-2

QTY. 1

SHT/NO 1 OF 1

REV 0



Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	Wrot 611R CxCxC Reducing Tee					2x1-1/4
9	1	Wrot 611R CxCxC Reducing Tee					2x1-1/4x1-1/4
4	2	Wrot 607 90 Deg Ell CxC					1-1/4
1	1	Wrot 607 90 Deg Ell CxC					2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 3/16"	6.217	1-1/4
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-1 1/2"	13.515	1-1/4
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-9 3/16"	21.186	1-1/4
11	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-1 7/16"	13.451	1-1/4
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	13'-5 9/16"	161.585	1-1/4
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-10 5/8"	34.654	2
8	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	5'-9 1/2"	69.499	2

Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
7	3	Wrot 601 No Stop Cplg CxC					1-1/4

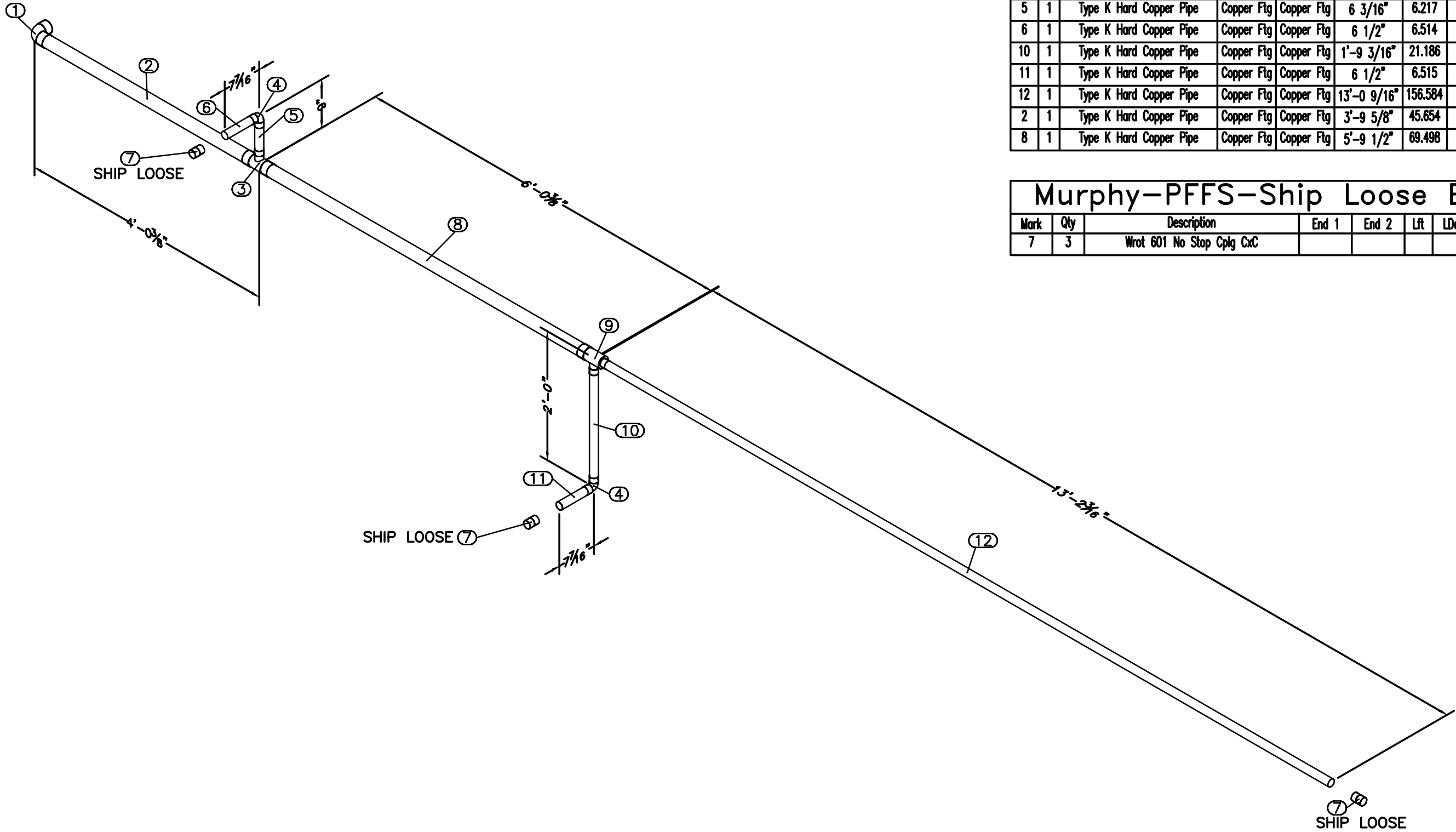
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<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT				
<input type="checkbox"/>	SPOOL IDENTIFICATION				
QA/QC ACCEPT					
SPEC.	ASME	X-RAY	HYDRO TEST	COMMENTS	
NA	NA	NA	NA	MURPHY WPS#	
0	REV	DATE	DESCRIPTION	DRN	CHK APP

DRN	JMM	4/15/2021	WUSM RESEARCH BUILDING		
CHK			NRB		
APP					
JOB NO.	210140	SERVICE NAME			
REF.DWG.		UPLVL-01 RACK			
DRAWING NO./TRACKING NO.	210140-A-UPL1-4E-3	QTY.	1	SHT/NO	1 OF 1
		REV	0		



Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	Wrot 611R CxCxC Reducing Tee					2x1-1/4
9	1	Wrot 611R CxCxC Reducing Tee					2x1-1/4x1-1/4
4	2	Wrot 607 90 Deg Ell CxC					1-1/4
1	1	Wrot 607 90 Deg Ell CxC					2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 3/16"	6.217	1-1/4
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 1/2"	6.514	1-1/4
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-9 3/16"	21.186	1-1/4
11	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 1/2"	6.515	1-1/4
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	13'-0 9/16"	156.584	1-1/4
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3'-9 5/8"	45.654	2
8	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	5'-9 1/2"	69.498	2

Murphy-PFFS-Ship Loose BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
7	3	Wrot 601 No Stop Cplg CxC					1-1/4

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☐ SPOOL IDENTIFICATION

QA/QC ACCEPT

SPEC.

NA

ASME

NA

X-RAY

NA

HYDRO TEST

NA

DATE

REV

0

COMMENTS

MURPHY WPS#

DESCRIPTION

DRN

CHK

APP

WUSM RESEARCH BUILDING
NRB

4/15/2021

210140

REF.DWG.

DRAWING NO./TRACKING NO.
210140-A-UPL1-4E-4

SERVICE NAME
UPLVL-01 RACK

QTY.

1

SHT/NO
1 of 1

REV
0