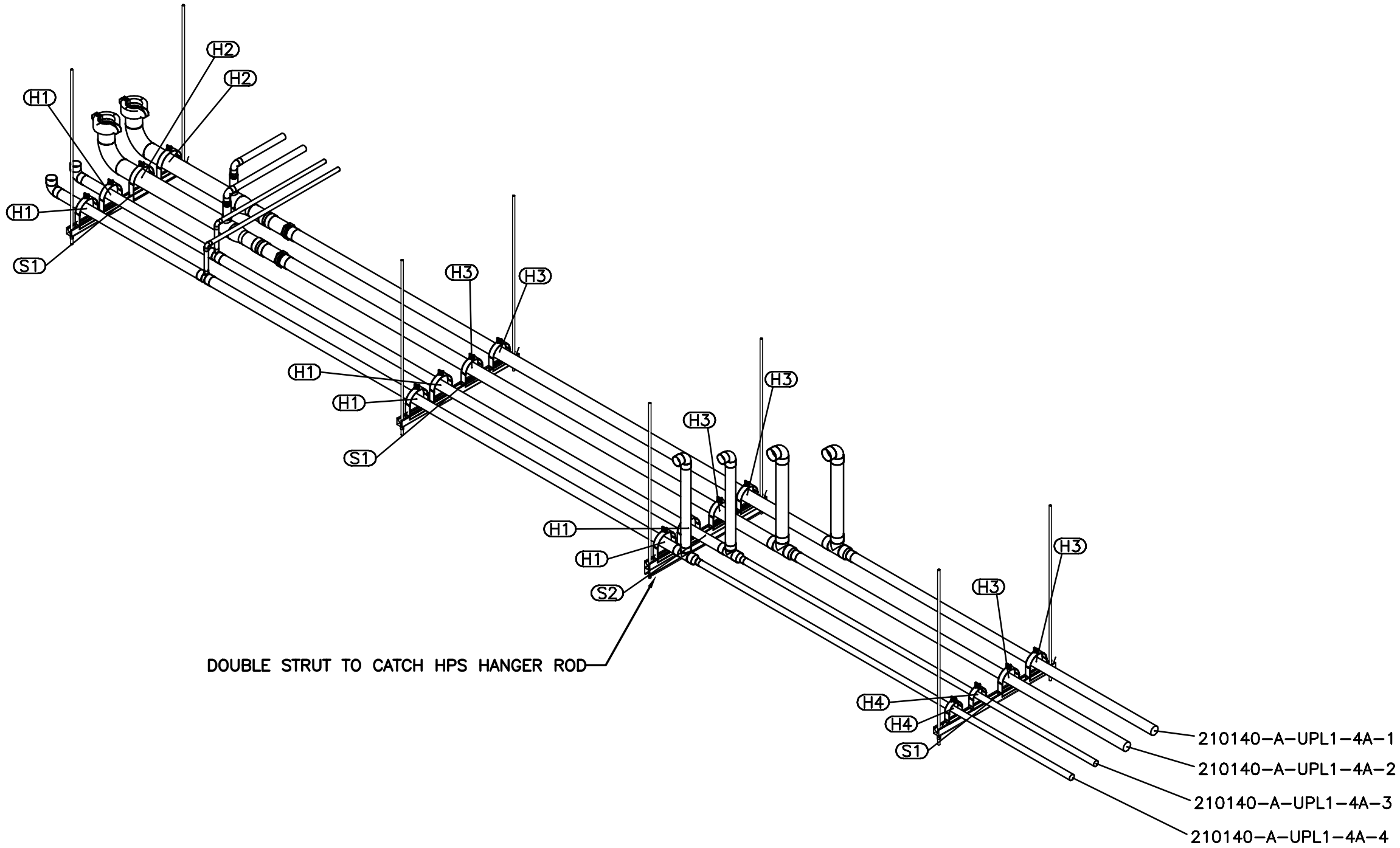


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QA/QC ACCEPT	<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION				COMMENTS			
	<input type="checkbox"/> FITTING ORIENTATION				PWHT			
	<input type="checkbox"/> BOLTS/CPLGS/TH'D TIGHT				NA			
	<input type="checkbox"/> SPOOL IDENTIFICATION				MURPHY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

DRN JMM	4/13/2021	WUSM RESEARCH BUILDING			SERVICE NAME			
CHK		NRB			UPLVL-01 RACK			
APP					QTY. SHT/NO			
JOB NO.	210140				1	1 of 2	REV	
REF.DWG.								
DRAWING NO./TRACKING NO.		210140-A-UPL1-4A						



BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	929162	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	6	1-1/2	
H2	928350	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_IPS	2	3	
H3	732262	Klo-Shure Strut Clamp 1in Insul Cplg - Armaflex	6	2-1/2	
H4	928137	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	2	1-1/4	
S1	B22 YZN	1-5/8 GALV 12GA 2in Slotted Unistrut	3	1-5/8x1-5/8	34"
S2	B22A GRN	1FT GALV 12GA BACK/BACK CHANNEL	1	1-5/8x1-5/8	34"

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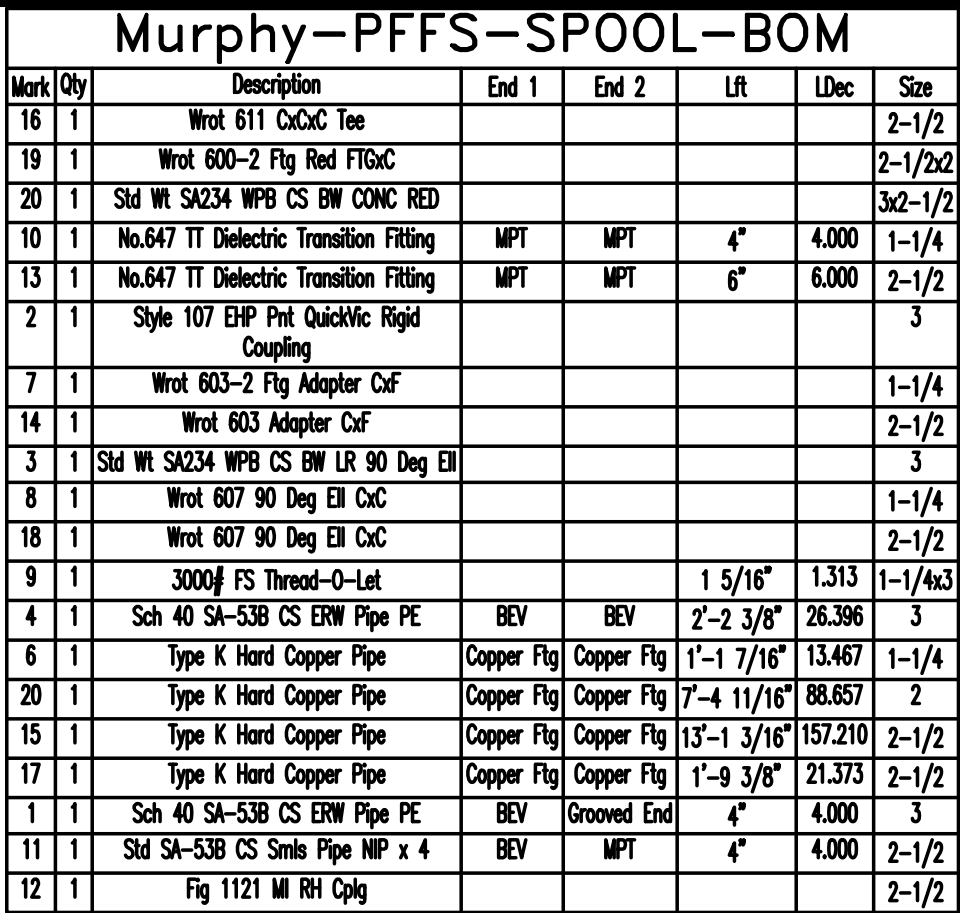
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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

QA/QC ACCEPT	ASME	X-RAY	HYDRO TEST	PMHT	COMMENTS
	NA	NA	NA	NA	MURPHY WPS#

0	REV	DATE	DESCRIPTION	DRN	CHK	APP
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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-UPL1-4A	SHT/NO	2 of 2
		REV	0



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Q/A/QC ACCEPT

FLANGE WEIGHT/ORIENTATION

FITTING ORIENTATION

BOLTS/CPLGS/TH'D TIGHT

SPOOL IDENTIFICATION

SPEC.

NA

0

REV

ASME

NA

X-RAY

NA

HYDRO TEST

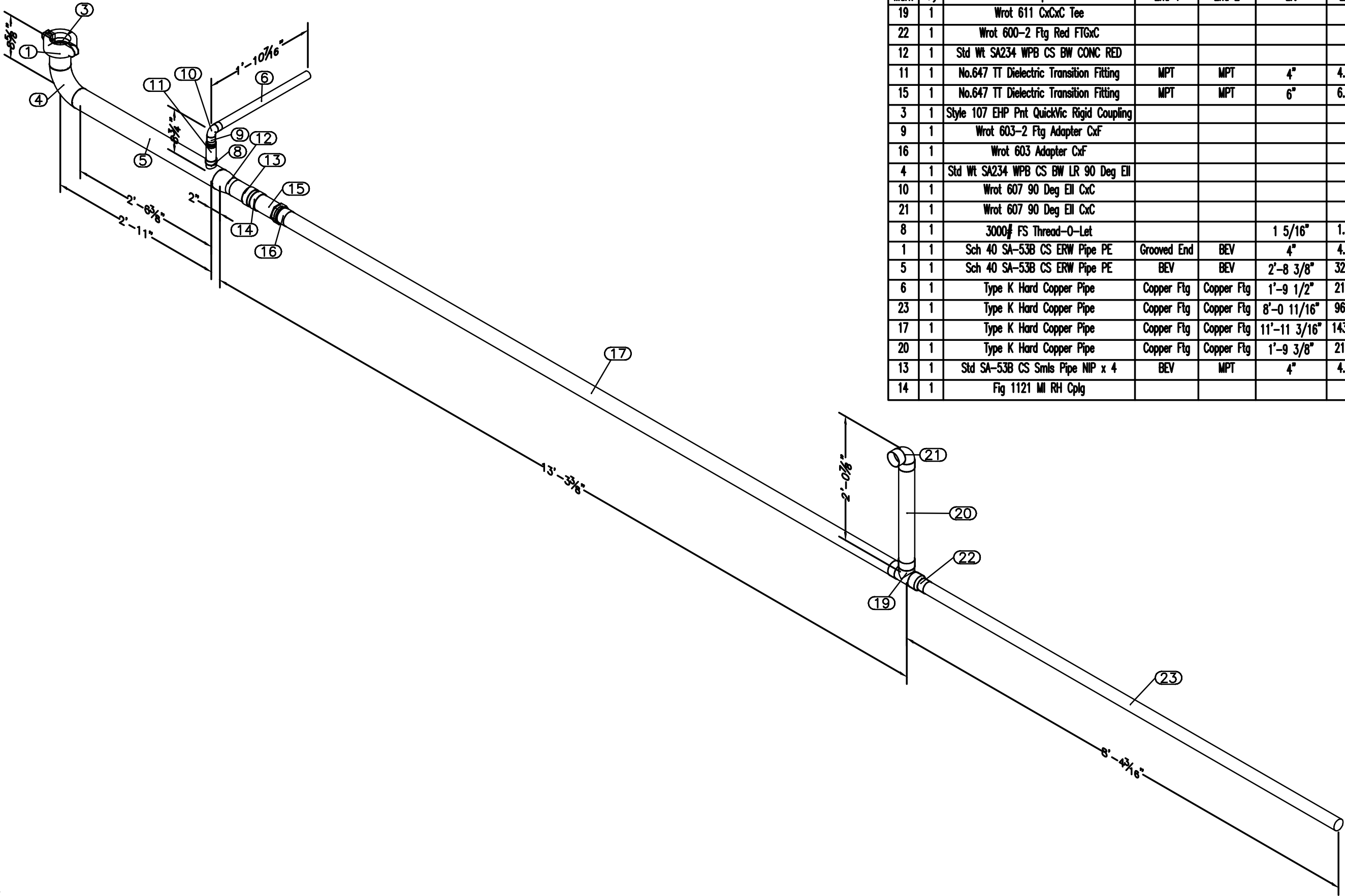
NA

PWHT

NA

COMMENTS

MURPHY WPS#



Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
19	1	Wrot 611 CxC Tee					2-1/2
22	1	Wrot 600-2 Flg Red FTGxC					2-1/2x2
12	1	Std Wt SA234 WPB CS BW CONC RED					3x2-1/2
11	1	No.647 TT Dielectric Transition Fitting	MPT	MPT	4"	4.000	1-1/4
15	1	No.647 TT Dielectric Transition Fitting	MPT	MPT	6"	6.000	2-1/2
3	1	Style 107 EHP Pnt QuickVic Rigid Coupling					3
9	1	Wrot 603-2 Flg Adapter CxF					1-1/4
16	1	Wrot 603 Adapter CxF					2-1/2
4	1	Std Wt SA234 WPB CS BW LR 90 Deg Ell					3
10	1	Wrot 607 90 Deg Ell CxC					1-1/4
21	1	Wrot 607 90 Deg Ell CxC					2-1/2
8	1	3000# FS Thread-O-Let			1 5/16"	1.313	1-1/4x3
1	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	4"	4.000	3
5	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	2'-8 3/8"	32.396	3
6	1	Type K Hard Copper Pipe	Copper Flg	Copper Flg	1'-9 1/2"	21.476	1-1/4
23	1	Type K Hard Copper Pipe	Copper Flg	Copper Flg	8'-0 11/16"	96.662	2
17	1	Type K Hard Copper Pipe	Copper Flg	Copper Flg	11'-11 3/16"	143.210	2-1/2
20	1	Type K Hard Copper Pipe	Copper Flg	Copper Flg	1'-9 3/8"	21.373	2-1/2
13	1	Std SA-53B CS Smls Pipe NIP x 4	BEV	MPT	4"	4.000	2-1/2
14	1	Fig 1121 MI RH Cplg					2-1/2

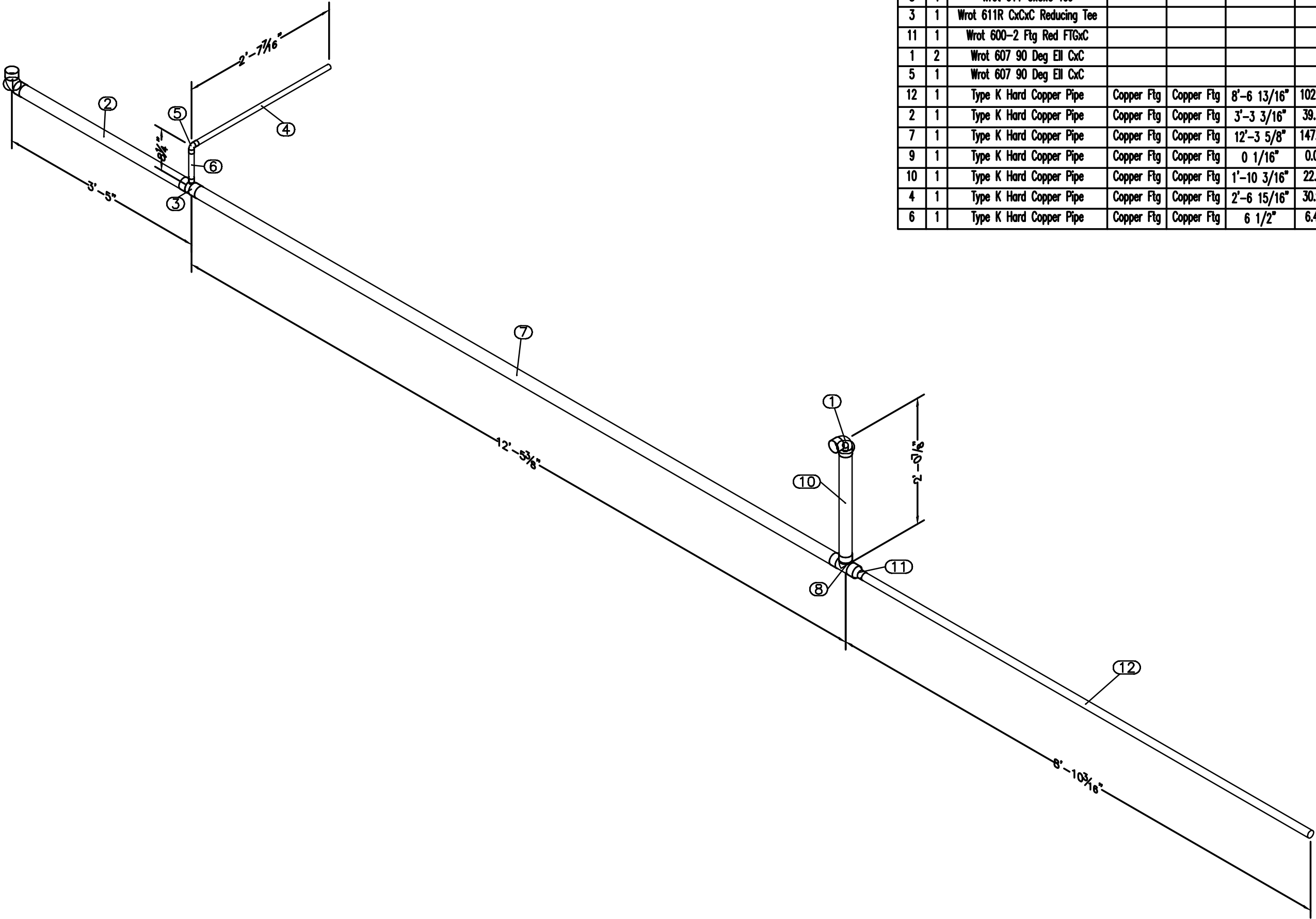
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<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/> FITTING ORIENTATION		<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/> SPOOL IDENTIFICATION	
QA/QC ACCEPT		X-RAY		ASME		HYDRO TEST	
SPEC.		NA		NA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

WUSM RESEARCH BUILDING		UPLVL-01 RACK	
NRB		UPLVL-01 RACK	
SERVICE NAME		UPLVL-01 RACK	
REF.DWG.		UPLVL-01 RACK	
DRAWING NO./TRACKING NO.		UPLVL-01 RACK	
210140-A-UPL1-4A-2		UPLVL-01 RACK	
QTY.		1	
SHT/NO		1 OF 1	
REV		0	



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
8	1	Wrot 611 CxCxC Tee					2
3	1	Wrot 611R CxCxC Reducing Tee					2x3/4
11	1	Wrot 600-2 Ftg Red FTGxC					2x1-1/4
1	2	Wrot 607 90 Deg Ell CxC					2
5	1	Wrot 607 90 Deg Ell CxC					3/4
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	8'-6 13/16"	102.809	1-1/4
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3'-3 3/16"	39.175	2
7	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	12'-3 5/8"	147.654	2
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	0 1/16"	0.046	2
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-10 3/16"	22.171	2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-6 15/16"	30.915	3/4
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 1/2"	6.487	3/4

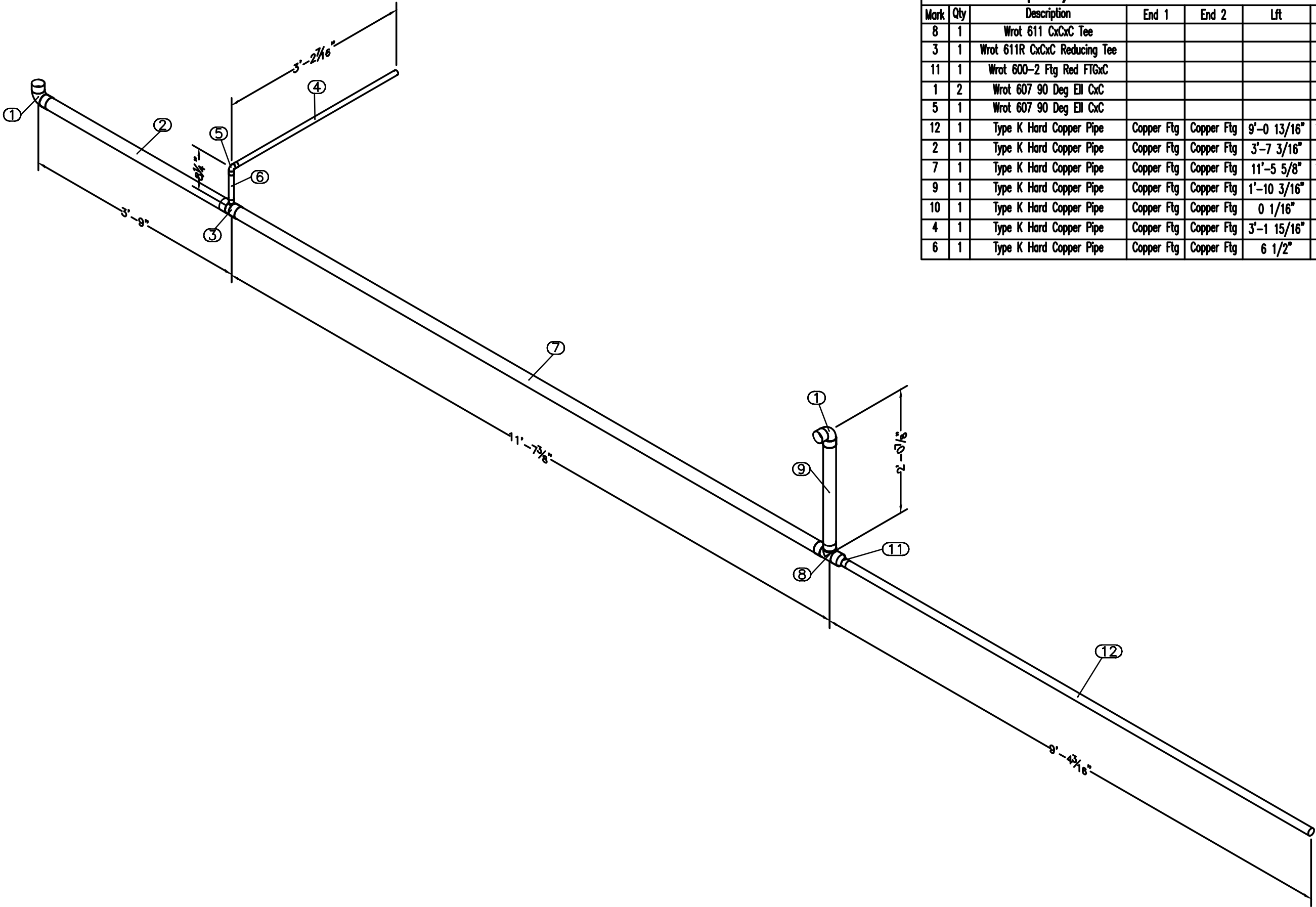
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<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/> FITTING ORIENTATION		<input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/> SPOOL IDENTIFICATION	
QA/QC ACCEPT		SPEC.		ASME	X-RAY	HYDRO TEST	COMMENTS
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

DRN	JMM	4/13/2021	WUSM RESEARCH BUILDING		UPLVL-01 RACK		REV
CHK			NRB				
APP			SERVICE NAME		UPLVL-01 RACK		
JOB NO.	210140		QTY.	1	SHT/NO	1 OF 1	
REF.DWG.			DRAWING NO./TRACKING NO.				
210140-A-UPL1-4A-3		1					0



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
8	1	Wrot 611 CxCxC Tee					2
3	1	Wrot 611R CxCxC Reducing Tee					2x3/4
11	1	Wrot 600-2 Ftg Red FTGxC					2x1-1/4
1	2	Wrot 607 90 Deg Ell CxC					2
5	1	Wrot 607 90 Deg Ell CxC					3/4
12	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	9'-0 13/16"	108.813	1-1/4
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3'-7 3/16"	43.175	2
7	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11'-5 5/8"	137.654	2
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-10 3/16"	22.171	2
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	0 1/16"	0.046	2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3'-1 15/16"	37.915	3/4
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 1/2"	6.486	3/4

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DRN JMM	4/13/2021		WUSM RESEARCH BUILDING				QA/QC ACCEPT		FLANGE WEIGHT/ORIENTATION				
	CHK		NRB						FITTING ORIENTATION				
	APP								BOLTS/CPLG'S/TH'D TIGHT				
	JOB NO.	210140	SERVICE NAME						SPOOL IDENTIFICATION				
REF.DWG.			UPLVL-01 RACK				SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS	
DRAWING NO./TRACKING NO.		210140-A-UPL1-4A-4	QTY.		SHT/NO		NA	NA	NA	NA	NA	MURPHY WPS#	
			1		1 of 1		0						
			REV		REV		REV	DATE	DESCRIPTION		DRN	CHK	APP