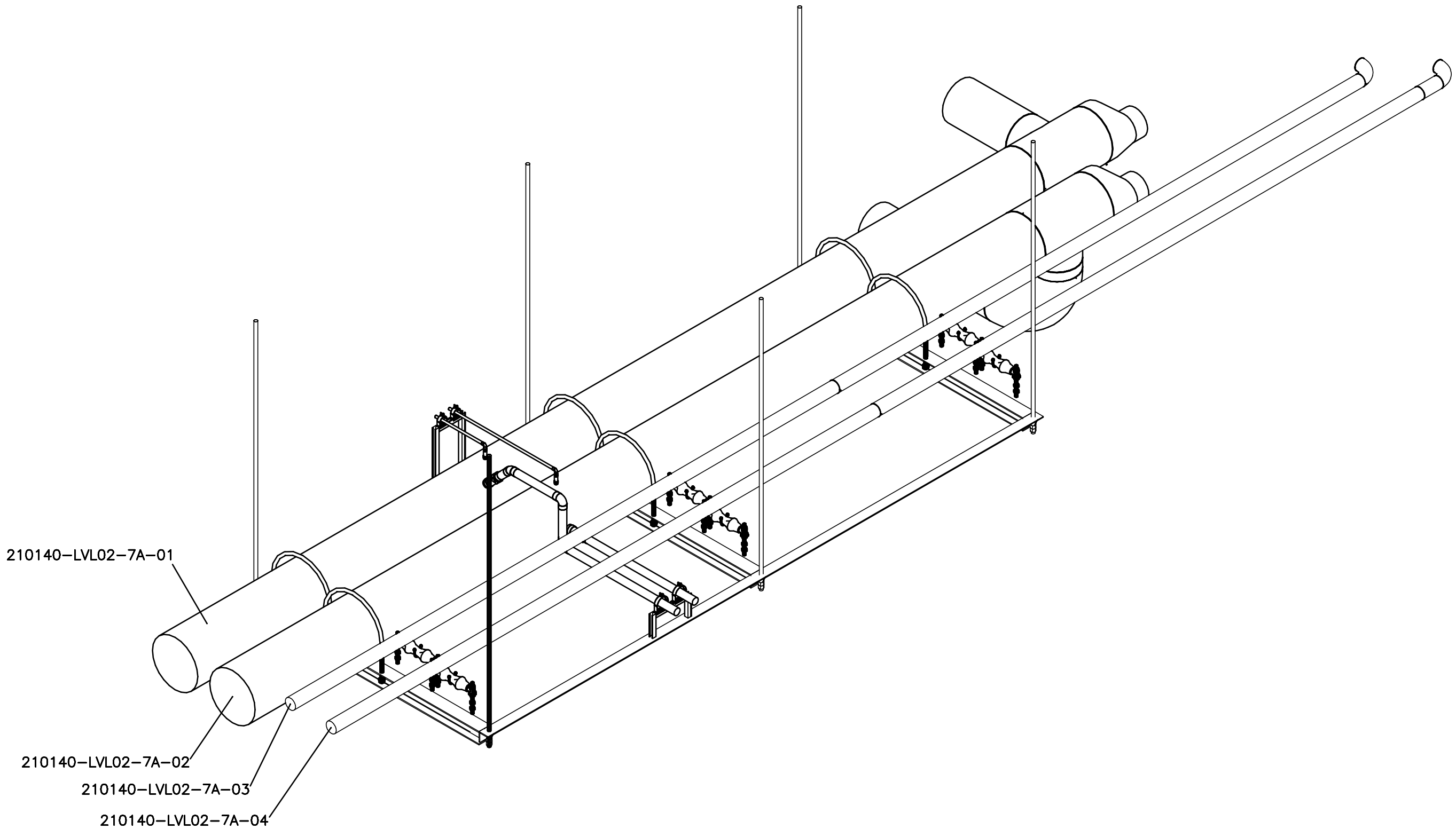


DRN	JMM	6/2/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION			
CHK			NRB				FITTING ORIENTATION				FITTING ORIENTATION			
APP			LEVEL 02 NRB RACK				BOLTS/CPLG'S/TH'D TIGHT				BOLTS/CPLG'S/TH'D TIGHT			
JOB NO.	210140		SERVICE NAME				SPOOL IDENTIFICATION				SPOOL IDENTIFICATION			
REF.DWG.							SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS		
DRAWING NO./TRACKING NO.	201140-LVL02-7A	QTY.	1	SHT/NO	2 OF 3	REV	NA	NA	NA	NA	NA	MURPHY WPS#		
							0							
							REV	DATE	DESCRIPTION				DRN	CHK
														APP

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DRN JMM

6/2/2021

CHK

APP

JOB NO.

210140

REF.DWG.

DRAWING NO./TRACKING NO.

201140-LVL02-7A

WUSM RESEARCH BUILDING

NRB

LEVEL 02 NRB RACK

SERVICE NAME

QTY.

1

SHT/NO

2 OF 3

REV

0

QA/QC ACCEPT

FLANGE WEIGHT/ORIENTATION

☐

FITTING ORIENTATION

☐

BOLTS/CPLG'S/TH'D TIGHT

☐

SPOOL IDENTIFICATION

☐

SPEC.

NA

ASME

NA

X-RAY

NA

HYDRO TEST

NA

PWHT

NA

COMMENTS

MURPHY WPS#

REV

0

DATE

DESCRIPTION

DRN

CHK

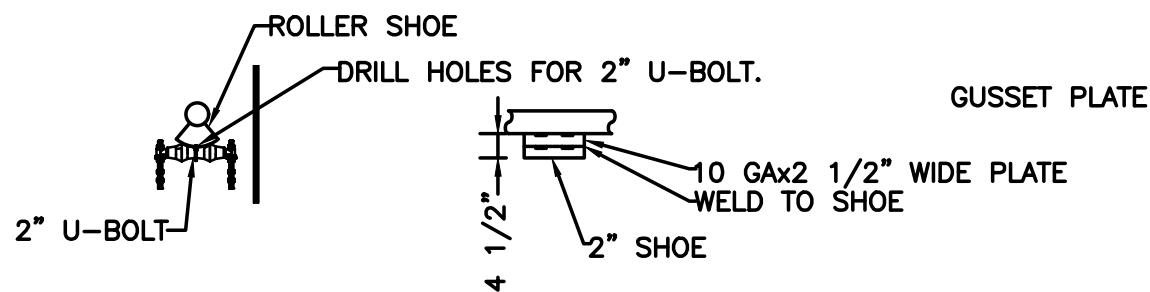
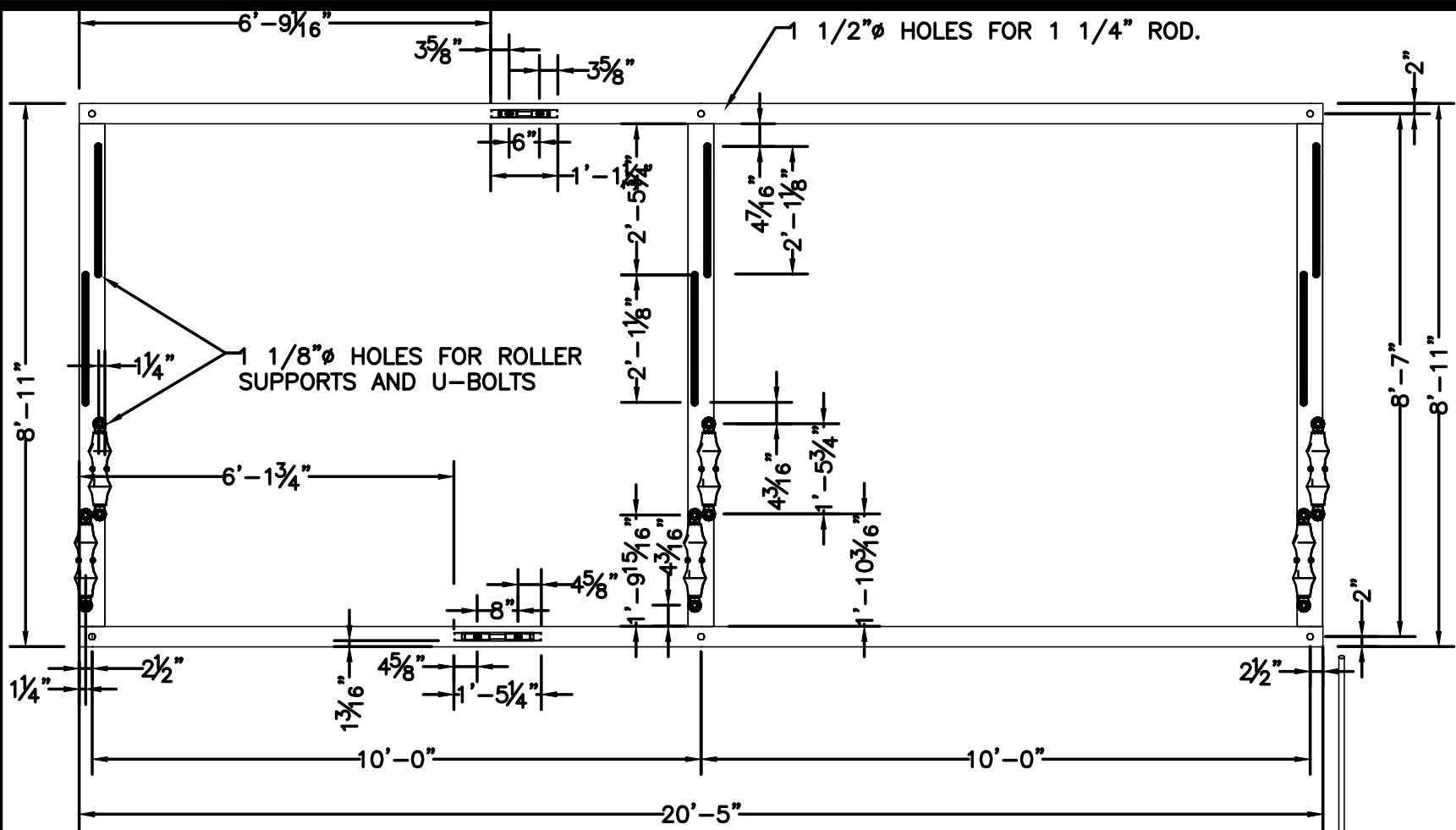
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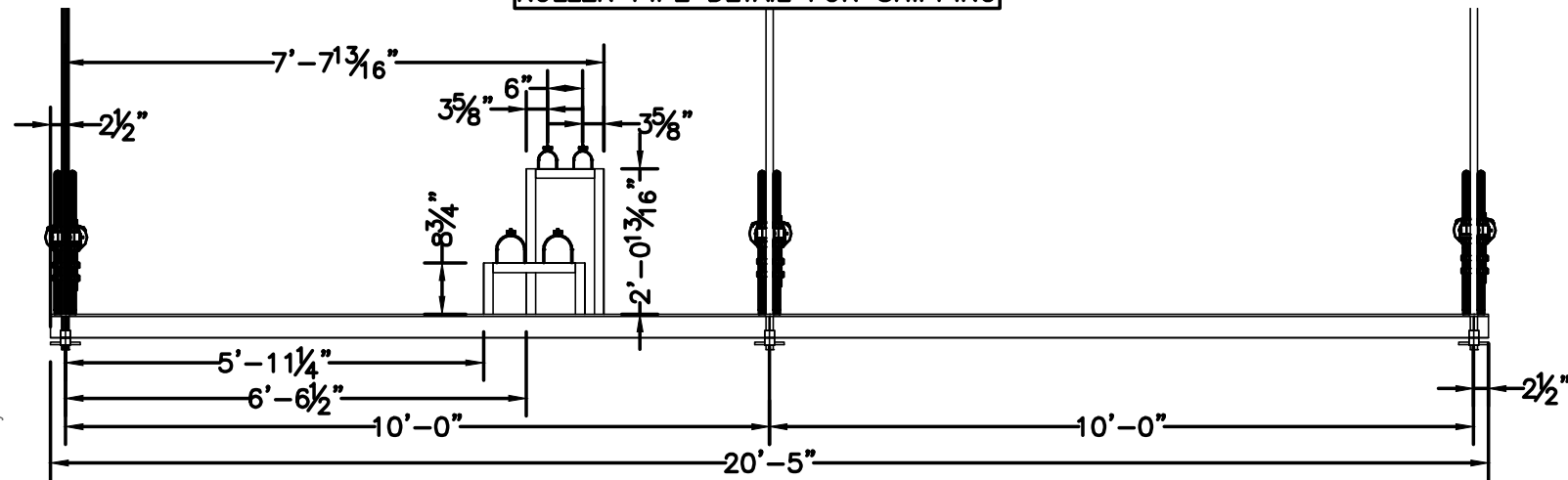
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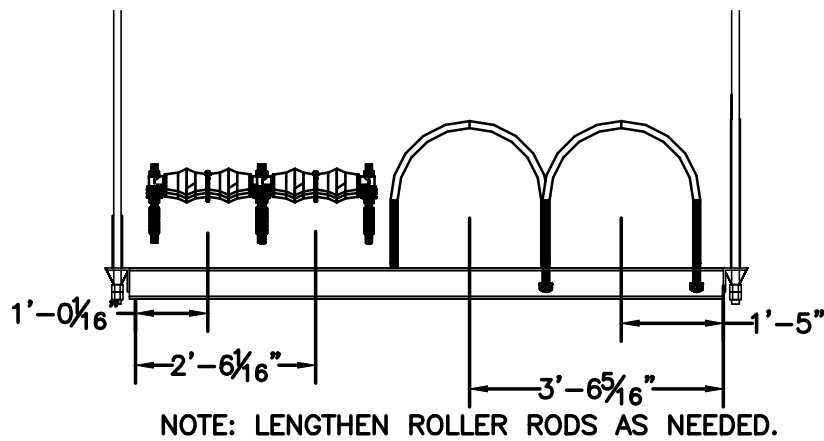
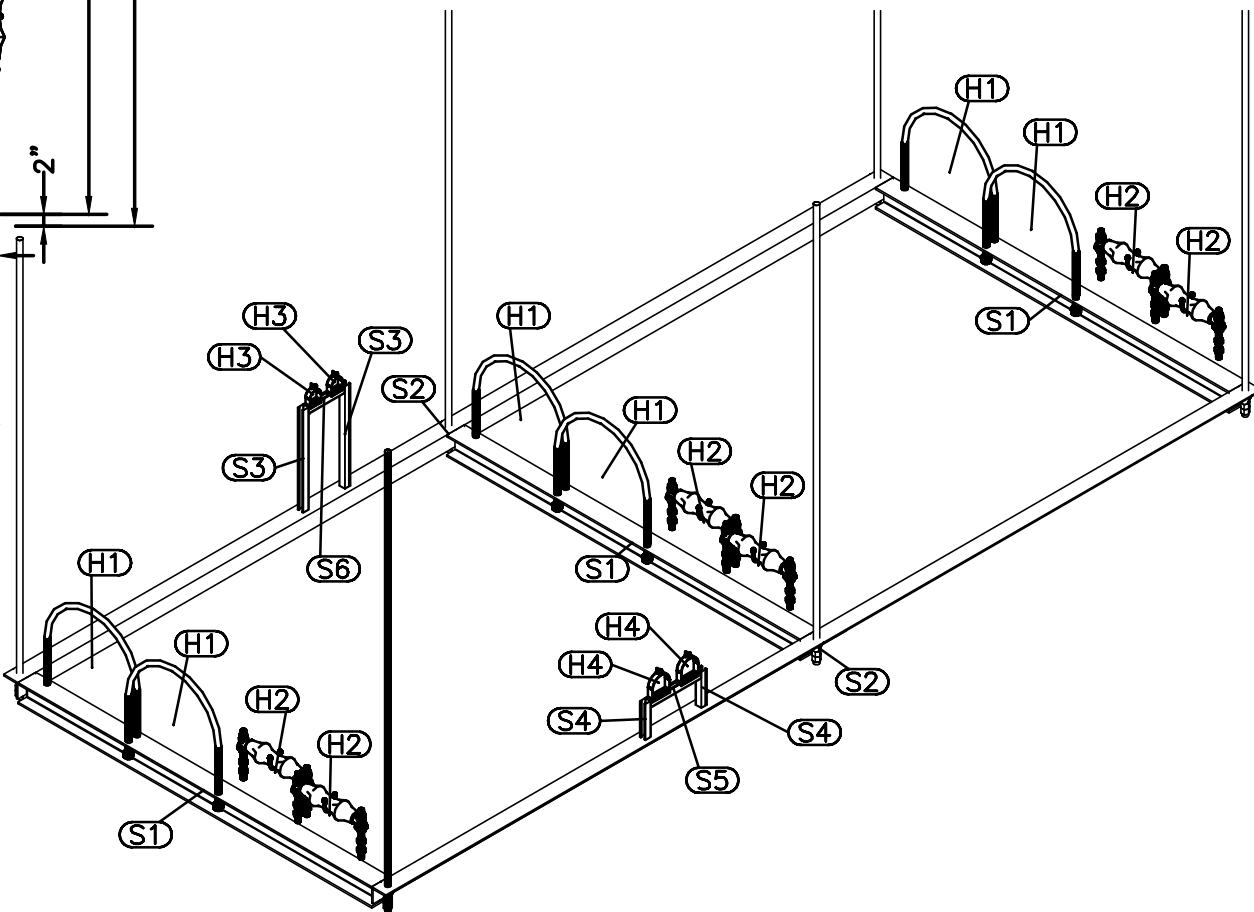
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06/04/2021 - 9:15am  
jmcnamely



ROLLER PIPE DETAIL FOR SHIPPING



BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	Fig137	Fig.137 U-Bolt (4)-Nut Black	6	24	
H2	B3122-14 PLN	B3122 Adjustable Roller Support - PLN	6	14	
H3	928062	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	2	1/2	
H4	928262	Klo-Shure Strut Clamp 1in Insul Cplg - Fiberglass_CTS	2	2-1/2	
S1	W5x19	ASTM A36 CS Wide Flange	3	W5x19	99"
S2	L4x4x3/8	ASTM A36 CS Equal Angle	2	L4x4x3/8	245"
S3	B22 GRN	1-5/8 GRN 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	24 3/4"
S4	B22 GRN	1-5/8 GRN 12GA 2in Slotted Unistrut	2	1-5/8x1-5/8	8 3/4"
S5	B22 GRN	1-5/8 GRN 12GA 2in Slotted Unistrut	1	1-5/8x1-5/8	14"
S6	B22 GRN	1-5/8 GRN 12GA 2in Slotted Unistrut	1	1-5/8x1-5/8	10"

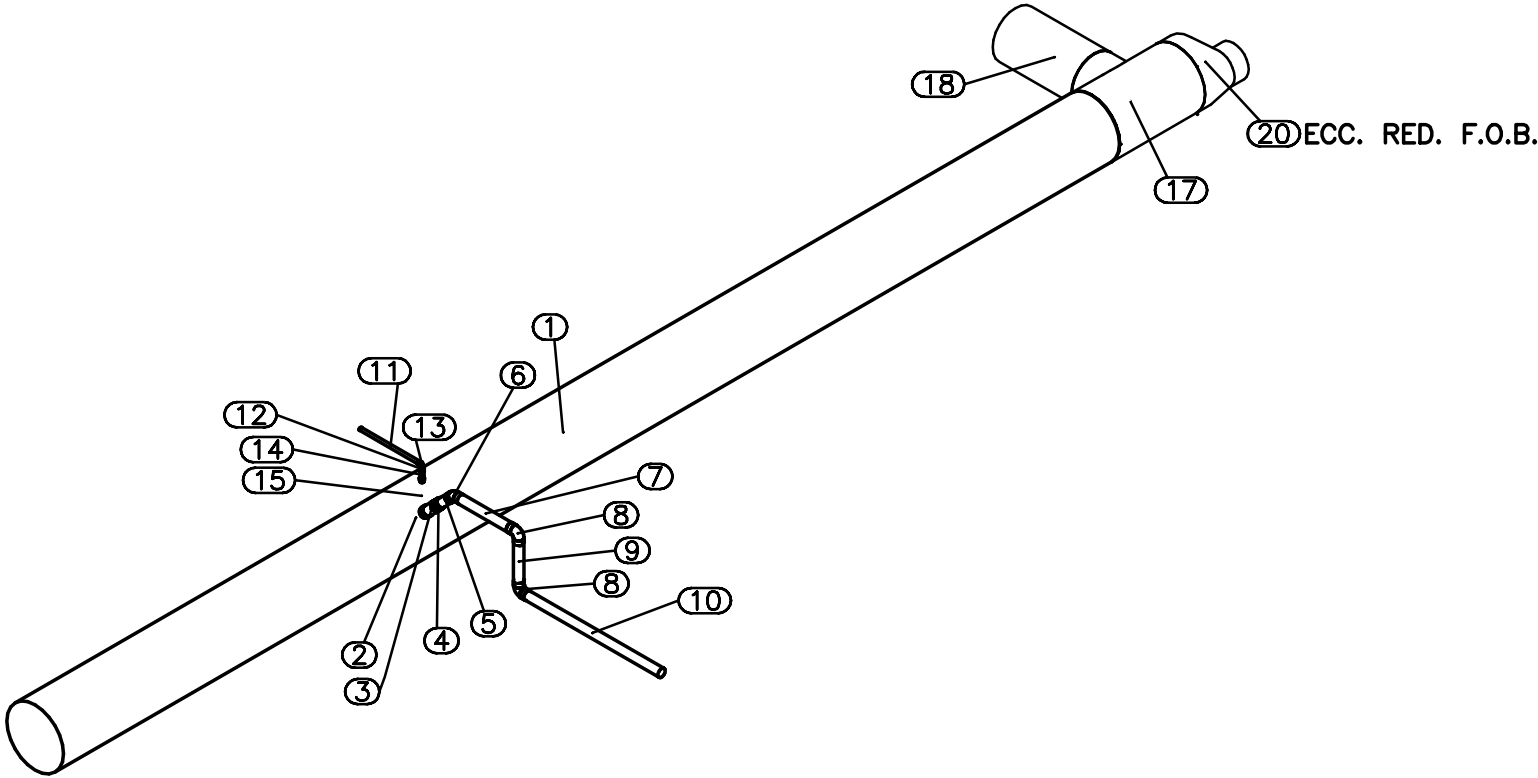
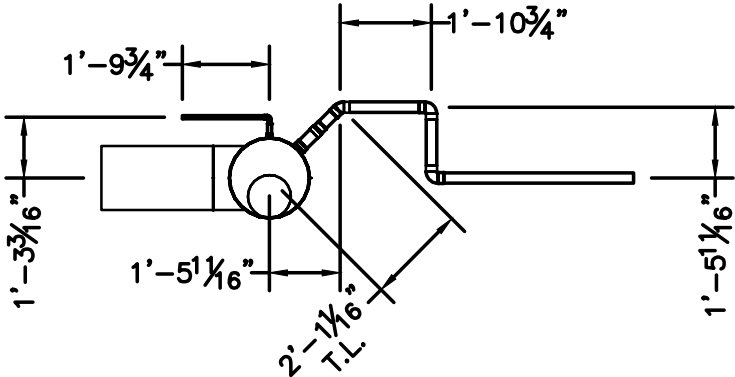
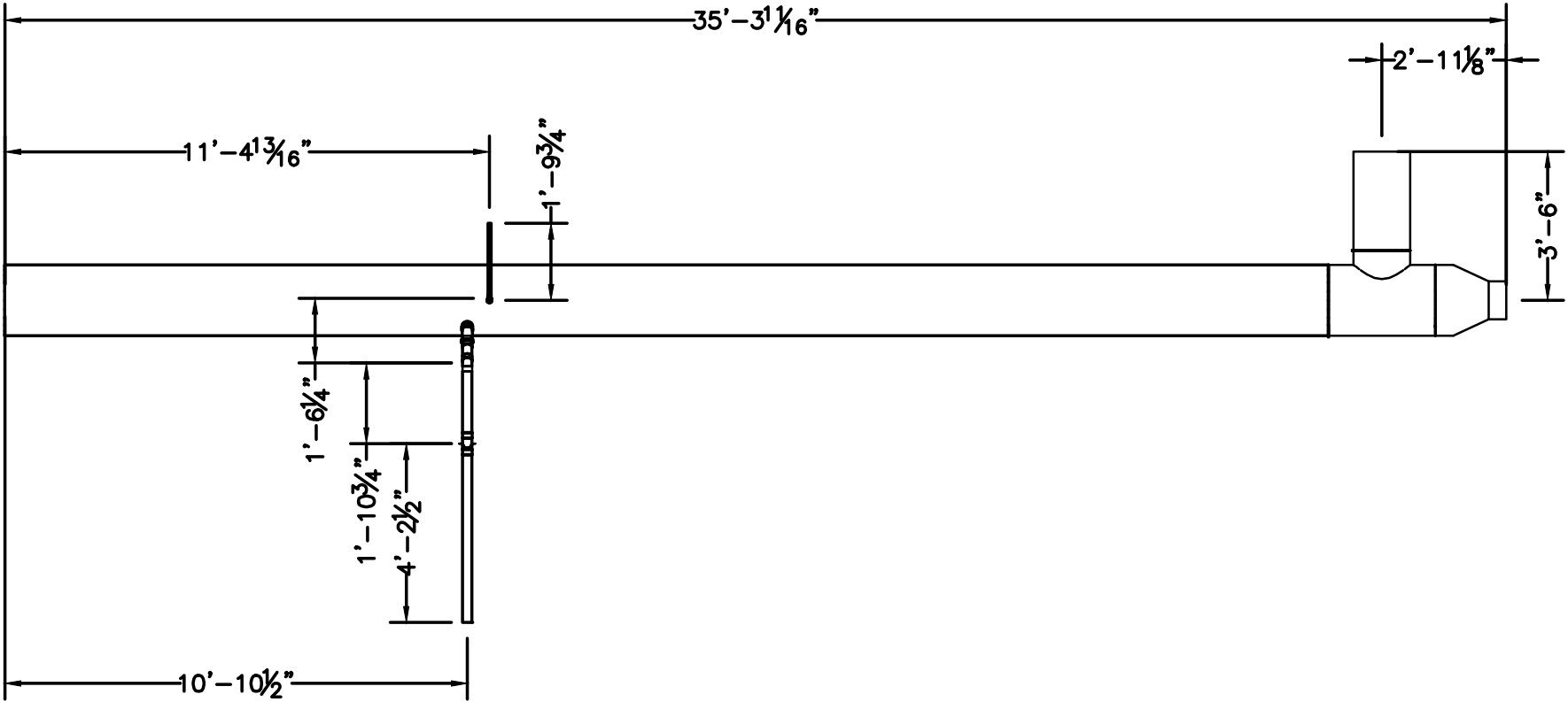


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FLANGE WEIGHT/ORIENTATION		FITTING ORIENTATION		BOLTS/CPLG'S/TH'D TIGHT		SPOOL IDENTIFICATION	
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QA/QC ACCEPT	ASME	X-RAY	HYDRO TEST	PMHT	COMMENTS	MURPHY WPS#	
	NA	NA	NA	NA			
0	REV	DATE	DESCRIPTION	DRN	CHK	APP	

WUSM RESEARCH BUILDING		NRB		LEVEL 02 NRB RACK		SERVICE NAME	
DRN	JMM	6/2/2021					
CHK							
APP							
JOB NO.	210140						
REF.DWG.							
DRAWING NO./TRACKING NO.	201140-LVL02-7A	QTY.	1	SHT/NO	3 of 3	REV	0



## Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
17	1	Std Wt SA234 WPB CS BW RED TEE					20x16
20	1	Std Wt SA234 WPB CS BW ECC RED					20x10
3	1	No.647 TT Dielectric Transition Fitting					2-1/2
14	1	No.647 TT Dielectric Transition Fitting					3/4
12	1	Wrot 603-2 Ftg Adapter CxF					3/4
4	1	103 Wrot Female Adapter CxFPT					2-1/2
13	1	107-C Wrot 90 Elbow - Close Ruff					3/4
8	2	Wrot 607 90 Deg Ell CxC					2-1/2
6	1	Wrot 606 45 Deg Ell CxC					2-1/2
2	1	3000# FS Thread-O-Let			1 13/16"	1.813	2-1/2x20
15	1	3000# FS Thread-O-Let			1 1/16"	1.063	3/4x20
18	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	2'-3 7/8"	27.877	16
1	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	31'-1 7/16"	373.438	20
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	6 7/8"	6.896	2-1/2
7	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-8 1/4"	20.245	2-1/2
9	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-2 7/16"	14.455	2-1/2
10	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4'-0 7/8"	48.866	2-1/2
11	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	1'-9 3/16"	21.203	3/4

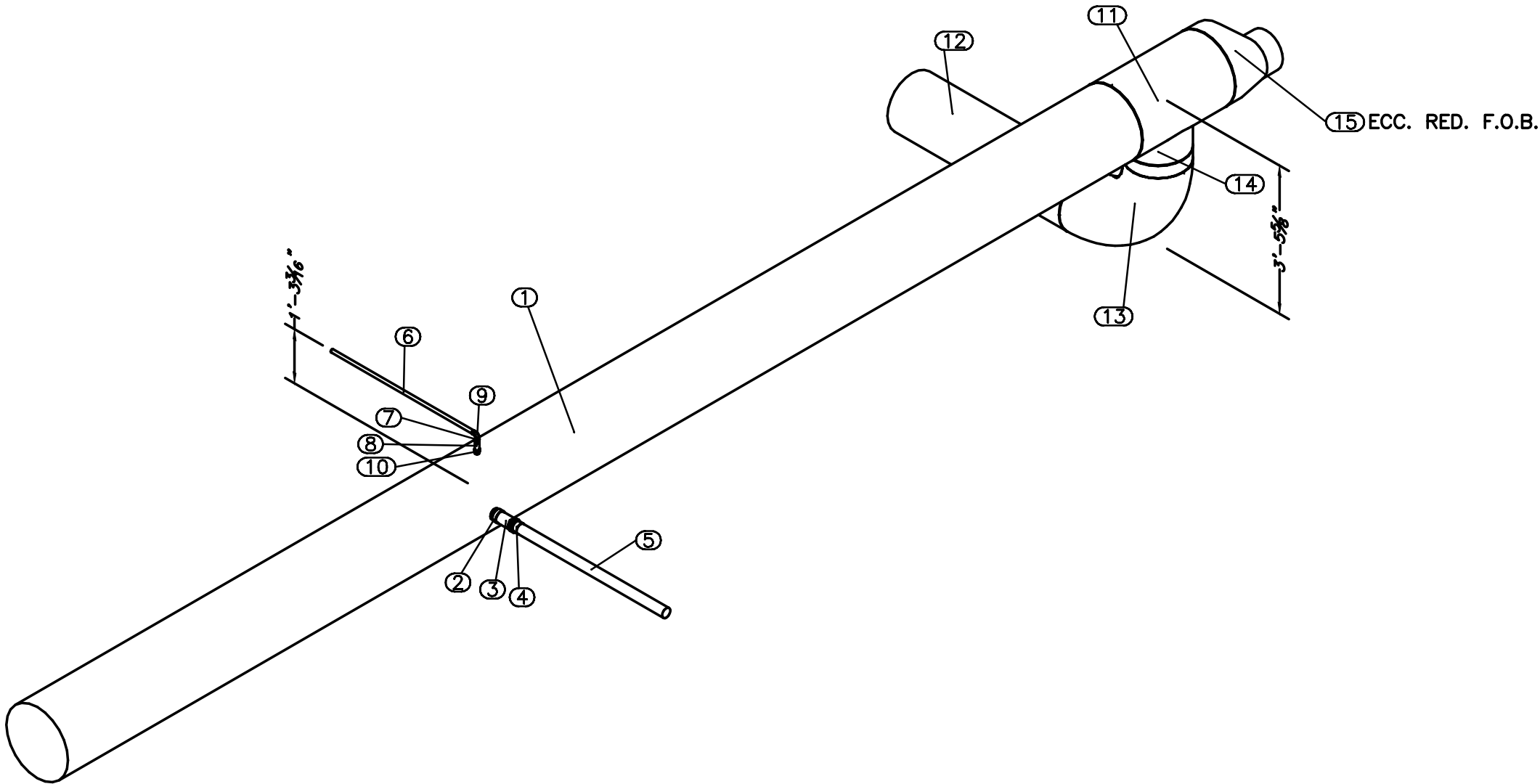
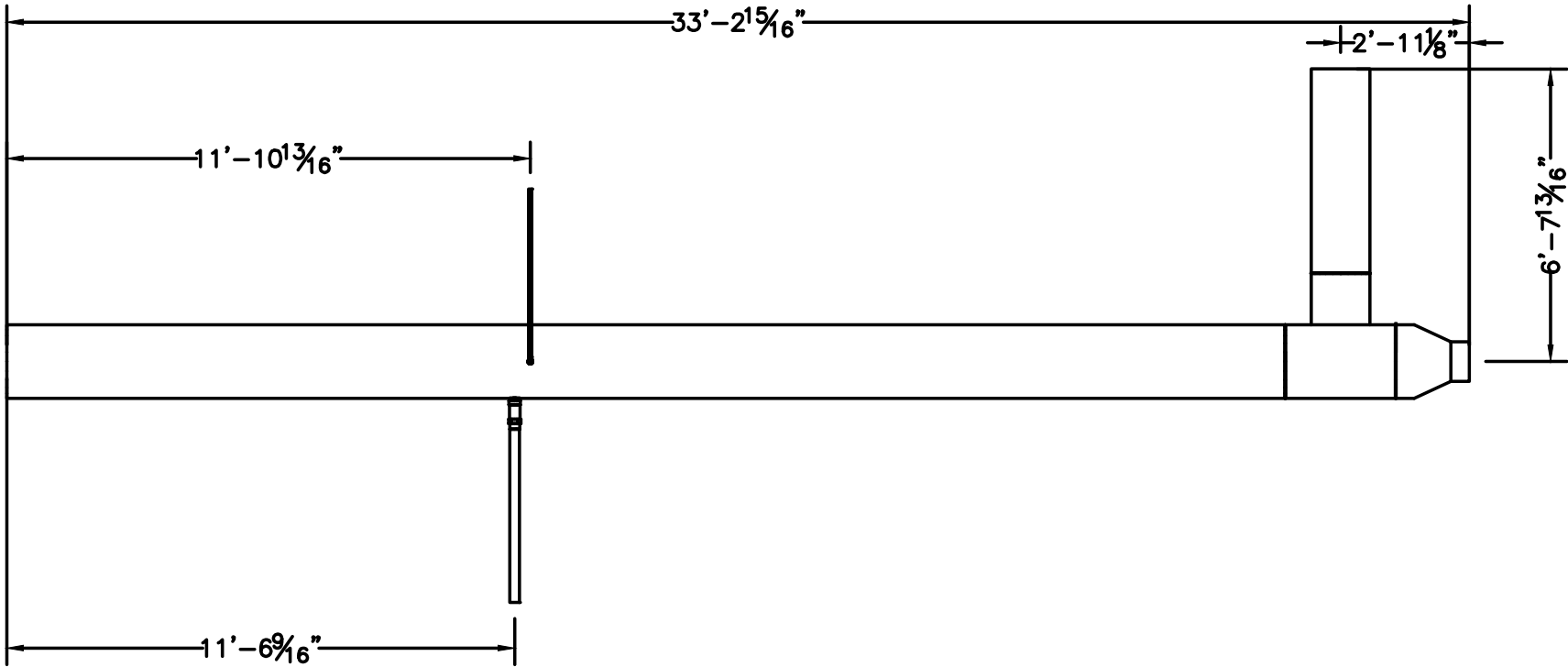
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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION				
<input type="checkbox"/>	FITTING ORIENTATION				
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT				
<input type="checkbox"/>	SPOOL IDENTIFICATION				
QA/QC ACCEPT					
SPEC.	ASME	X-RAY	HYDRO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

DRN	JMM	6/4/2021	WUSM RESEARCH BUILDING		
CHK			NRB		
APP			LVL02		
JOB NO.	210140	SERVICE NAME			
REF.DWG.		LVL02-7A RACK			
DRAWING NO./TRACKING NO.	210140-LVL02-7A-01	QTY.	SHT/NO	REV	
		1	1 of 1	0	



## Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
11	1	Std Wt SA234 WPB CS BW RED TEE					20x16
15	1	Std Wt SA234 WPB CS BW ECC RED					20x10
3	1	No.647 TT Dielectric Transition Fitting					2-1/2
8	1	No.647 TT Dielectric Transition Fitting					3/4
7	1	Wrot 603-2 Ftg Adapter CxF					3/4
4	1	Wrot 603 Adapter CxF					2-1/2
13	1	Std Wt SA234 WPB CS BW LR 90 Deg Ell					16
9	1	107-C Wrot 90 Elbow - Close Ruff					3/4
2	1	3000# FS Thread-O-Let			1 13/16"	1.813	2-1/2x20
10	1	3000# FS Thread-O-Let			1 1/16"	1.063	3/4x20
12	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	4'-7 11/16"	55.695	16
14	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	3 3/8"	3.375	16
1	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	29'-0 11/16"	348.688	20
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	4'-0 3/4"	48.739	2-1/2
6	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	3'-10 1/2"	46.515	3/4

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

QA/QC ACCEPT

SPEC. NA

ASME NA

X-RAY NA

HYDRO TEST NA

PMHT NA

COMMENTS

0 REV

DATE

MURPHY WPS#

WUSM RESEARCH BUILDING  
NRB  
LVL02

SERVICE NAME  
LVL02-7A RACK

REF.DWG.

DRAWING NO./TRACKING NO.  
210140-LVL02-7A-02

QTY. 1

SHT/NO 1 of 1

REV 0

DRN JMM

CHK

APP

JOB NO. 210140

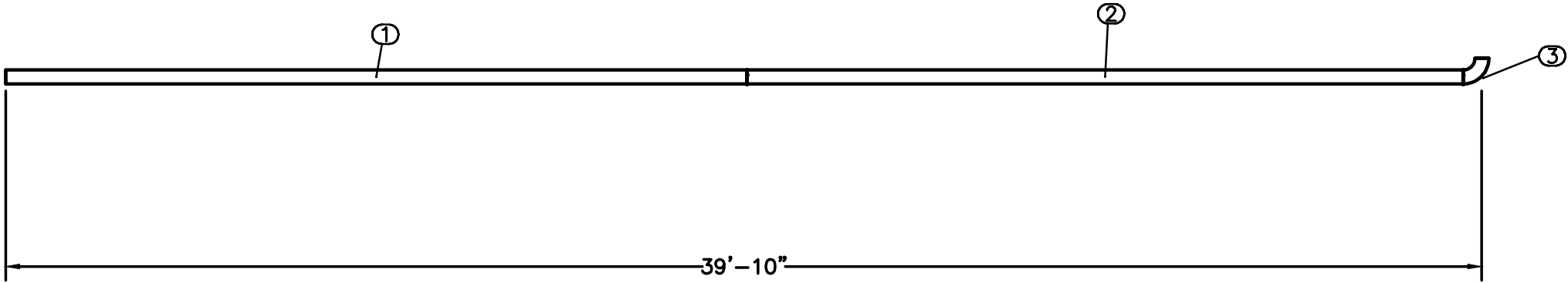
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DESCRIPTION

DRN

CHK

APP

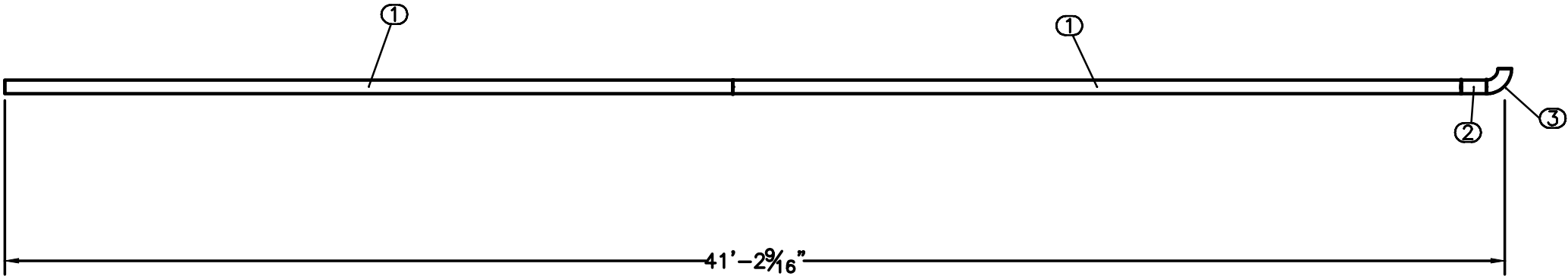


Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	XH SA234 WPB CS BW LR 90 Deg Ell					4
1	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4
2	1	XH SA-53B CS SMLS Pipe	BEV	BEV	19'-3 13/16"	231.831	4

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DRN JMM CHK APP JOB NO. 210140 REF.DWG. DRAWING NO./TRACKING NO. 210140-LVLO2-7A-03	WUSM RESEARCH BUILDING				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>	
	NRB								FITTING ORIENTATION				<input type="checkbox"/>	
	LVLO2								BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>	
	SERVICE NAME				SPEC.				SPOOL IDENTIFICATION				<input type="checkbox"/>	
	LVLO2-7A RACK				ASME				HYDRO TEST					
				NA				NA				PWHT	COMMENTS	
				REV				DATE				NA	MURPHY WPS#	
				QTY. 1				DESCRIPTION				DRN	CHK	APP
				SHT/NO 1 of 1										
				REV 0										



Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	1	XH SA234 WPB CS BW LR 90 Deg El					4
1	2	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4
2	1	XH SA-53B CS SMLS Pipe	BEV	BEV	8 1/4"	8.233	4

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DRN JMM CHK APP JOB NO. 210140 REF.DWG. DRAWING NO./TRACKING NO. 210140-LVLO2-7A-04	6/4/2021		WUSM RESEARCH BUILDING		QA/QC ACCEPT		FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>		
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			LVLO2-7A RACK				SPOOL IDENTIFICATION		<input type="checkbox"/>		
			LVLO2-7A RACK				HYDRO TEST				
			SERVICE NAME		ASME	X-RAY	PMHT	COMMENTS			
					NA	NA	NA	MURPHY WPS#			
					0						
					REV	DATE	DESCRIPTION		DRN		
					1	1 of 1			CHK		
					1	1 of 1			APP		
					0	0			APP		