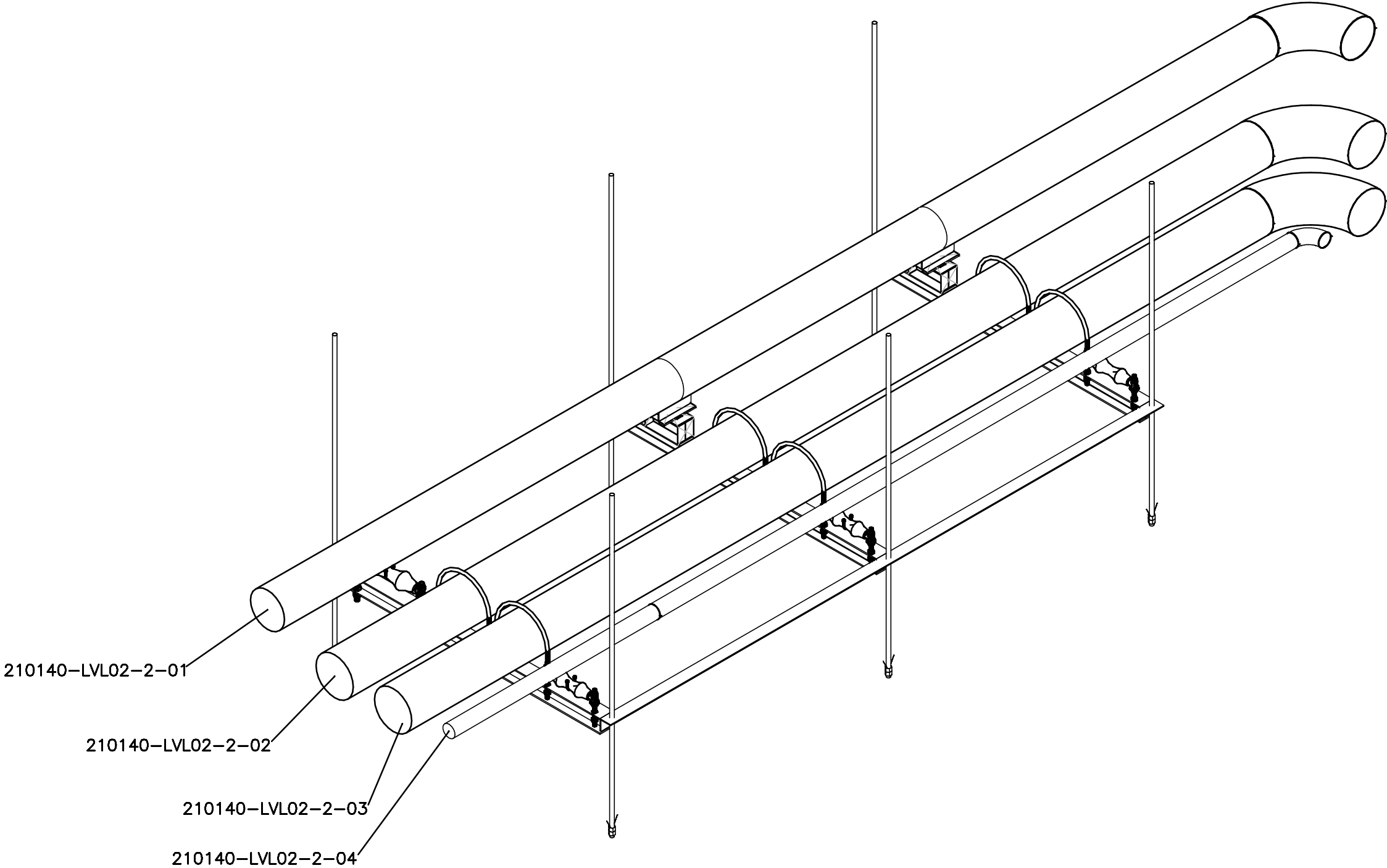


<div>MURPHY</div> <div>SINCE 1907</div> <div>CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL</div>			1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-stl.com										
<div>WUSM RESEARCH BUILDING</div> <div>NRB</div> <div>LEVEL 02 NRB RACK</div> <div>SERVICE NAME</div>			QA/QC ACCEPT			FLANGE WEIGHT/ORIENTATION							<input type="checkbox"/>
						FITTING ORIENTATION							<input type="checkbox"/>
						BOLTS/CPLG'S/TH'D TIGHT							<input type="checkbox"/>
						SPOOL IDENTIFICATION							<input type="checkbox"/>
													<input type="checkbox"/>
REF.DWG.			SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS					
			NA	NA	NA	NA	NA	MURPHY WPS#					
			0										
			REV	DATE	DESCRIPTION					DRN	CHK	APP	
DRAWING NO./TRACKING NO.			QTY.	SHT/NO		REV							
201140-LVL02-2			1	1 of 3		0							

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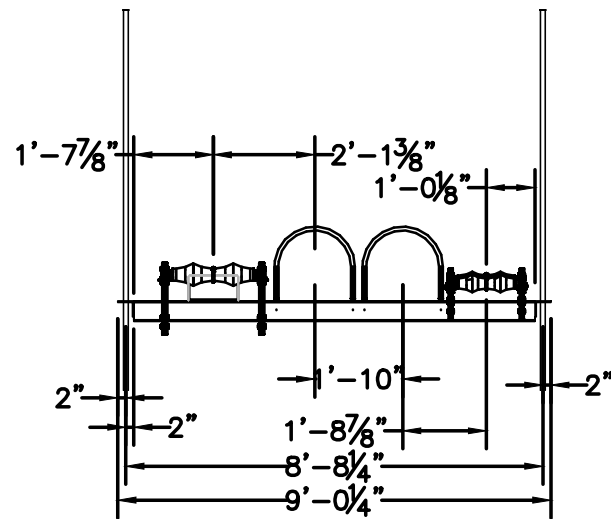


DRN JMM		5/24/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT		FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>
CHK			NRB						FITTING ORIENTATION				<input type="checkbox"/>
APP			LEVEL 02 NRB RACK						BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>
JOB NO.		210140	SERVICE NAME						SPOOL IDENTIFICATION				<input type="checkbox"/>
REF.DWG.							SPEC.		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
DRAWING NO./TRACKING NO.							NA		NA	NA	NA	NA	MURPHY WPS#
201140-LVL02-2							0						
							REV		DATE	DESCRIPTION		DRN	CHK
												APP	

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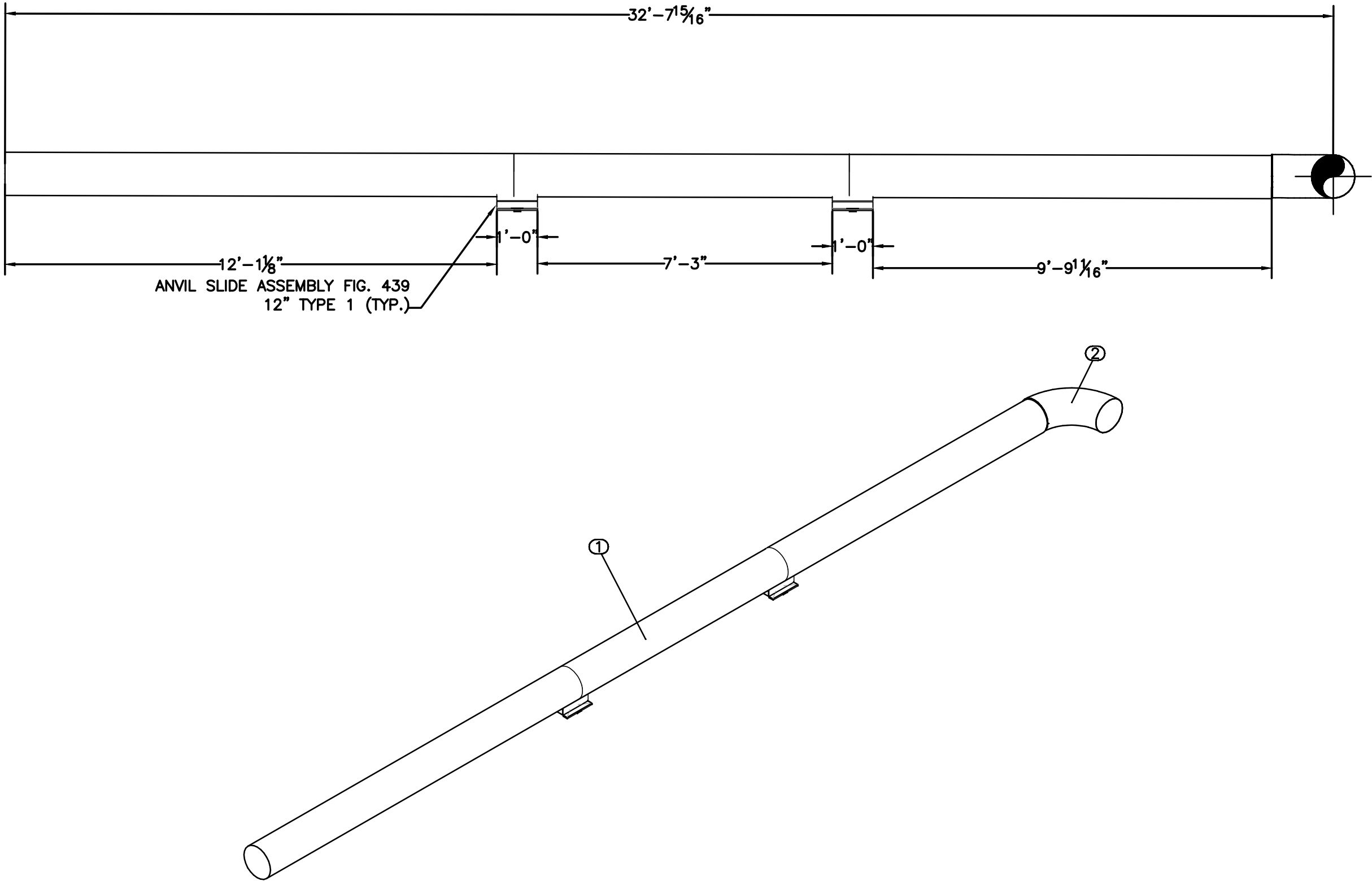


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DRN JMM	5/24/2021	WUSM RESEARCH BUILDING		
CHK		NRB		
APP		LEVEL 02 NRB RACK		
JOB NO.	210140	SERVICE NAME		
REF.DWG.				
DRAWING NO./TRACKING NO.		QTY.	SHT/NO	REV
201140-LVL02-2		1	3 of 3	0



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Std Wt SA234 WPB CS BW LR 90 Deg El					12
1	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	31'-1 13/16"	373.813	12

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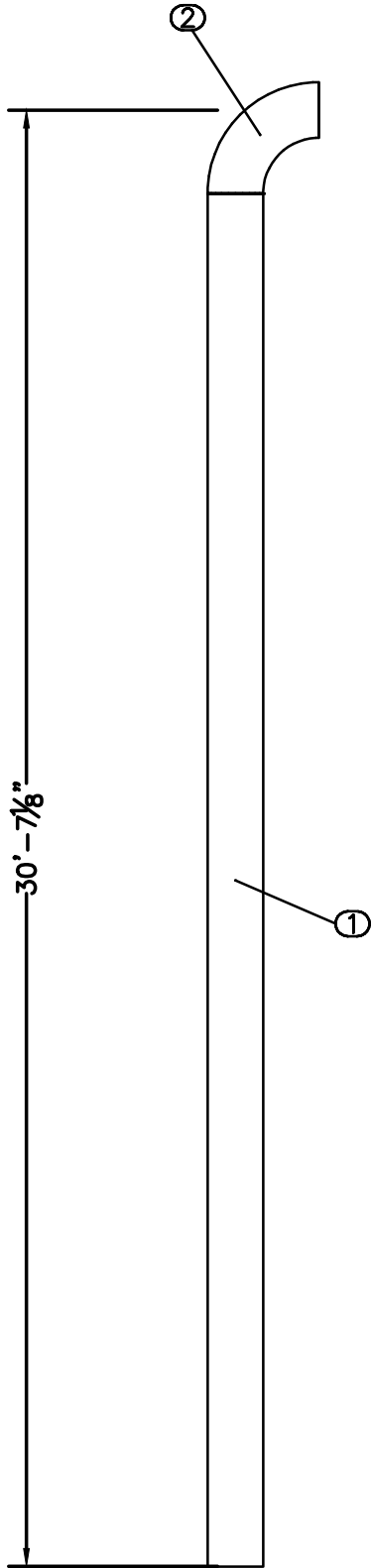
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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

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

0	REV	DATE	DESCRIPTION	DRN	CHK	APP

DRN JMM	5/25/2021	WUSM RESEARCH BUILDING	
CHK		NRB	
APP		LVL02 RACKS	
JOB NO.	210140	SERVICE NAME	
REF.DWG.		LVL02-2 RACK	
DRAWING NO./TRACKING NO.	QTY.	SHT/NO	REV
210140-LVL02-2-01	1	1 of 1	0



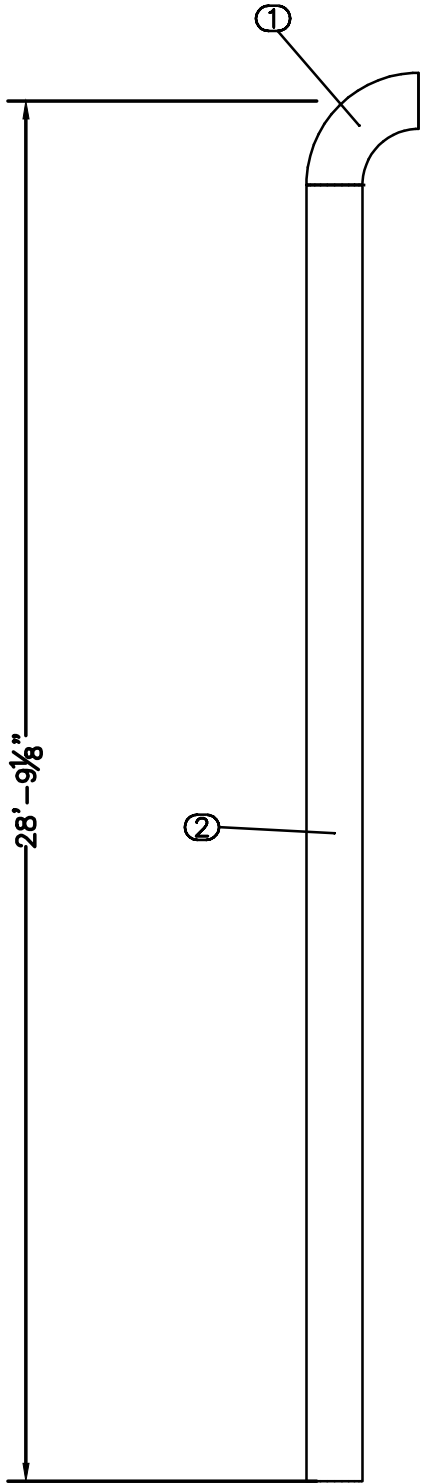
Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Std Wt SA234 WPB CS BW LR 90 Deg El					14
1	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	28'-10"	346.000	14

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DRN JMM CHK APP JOB NO. 210140 REF.DWG. DRAWING NO./TRACKING NO. 210140-LVL02-2-02	5/25/2021			WUSM RESEARCH BUILDING NRB LVL02 RACKS				QA/QC ACCEPT				<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						
				LVL02-2 RACK														



Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Std Wt SA234 WPB CS BW LR 90 Deg El					14
2	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	27'-0"	324.000	14

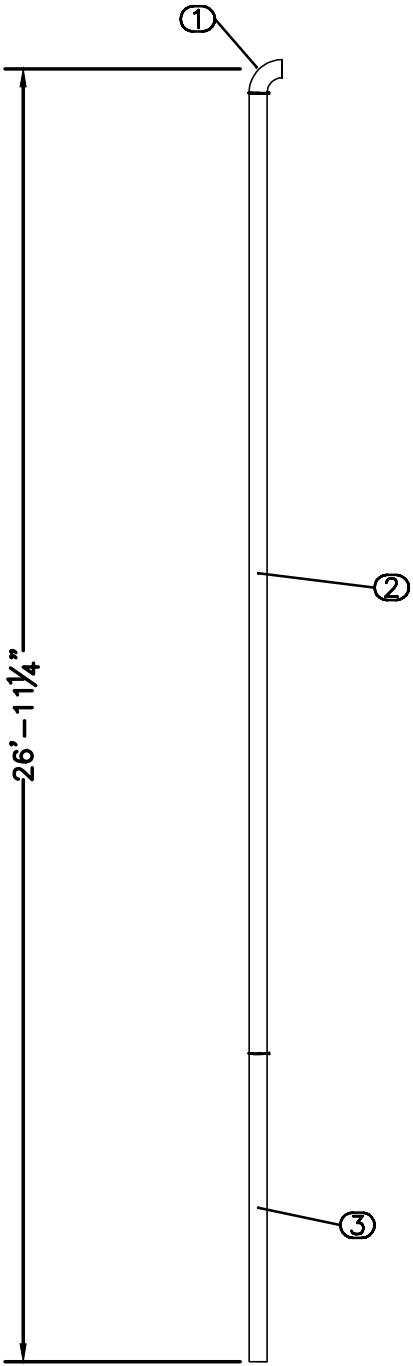
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QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>
				FITTING ORIENTATION				<input type="checkbox"/>
				BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>
				SPOOL IDENTIFICATION				<input type="checkbox"/>
SPEC.	ASME	X-RAY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

DRN JMM	5/25/2021	WUSM RESEARCH BUILDING			
CHK		NRB			
APP		LVL02 RACKS			
JOB NO.	210140	SERVICE NAME	LVL02-2 RACK		
REF.DWG.		QTY.			REV
DRAWING NO./TRACKING NO.		1	SHT/NO	1 of 1	0
210140-LVL02-2-03					



Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	XH SA234 WPB CS BW LR 90 Deg El					4
2	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4
3	1	XH SA-53B CS SMLS Pipe	BEV	BEV	6'-5"	76.997	4

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DRN JMM CHK APP JOB NO. 210140 REF.DWG. DRAWING NO./TRACKING NO. 210140-LVL02-2-04	WUSM RESEARCH BUILDING NRB LVL02 RACKS				QA/QC ACCEPT				FLANGE WEIGHT/ORIENTATION FITTING ORIENTATION BOLTS/CPLG'S/TH'D TIGHT SPOOL IDENTIFICATION							
	SERVICE NAME LVL02-2 RACK				SPEC. NA				HYDRO TEST NA				COMMENTS			
	QTY. 1				SHT/NO 1 of 1				ASME NA				PWHT NA			
	REV 0				DATE				X-RAY NA				MURPHY WPS#			
	DESCRIPTION				REV				DRN				CHK APP			