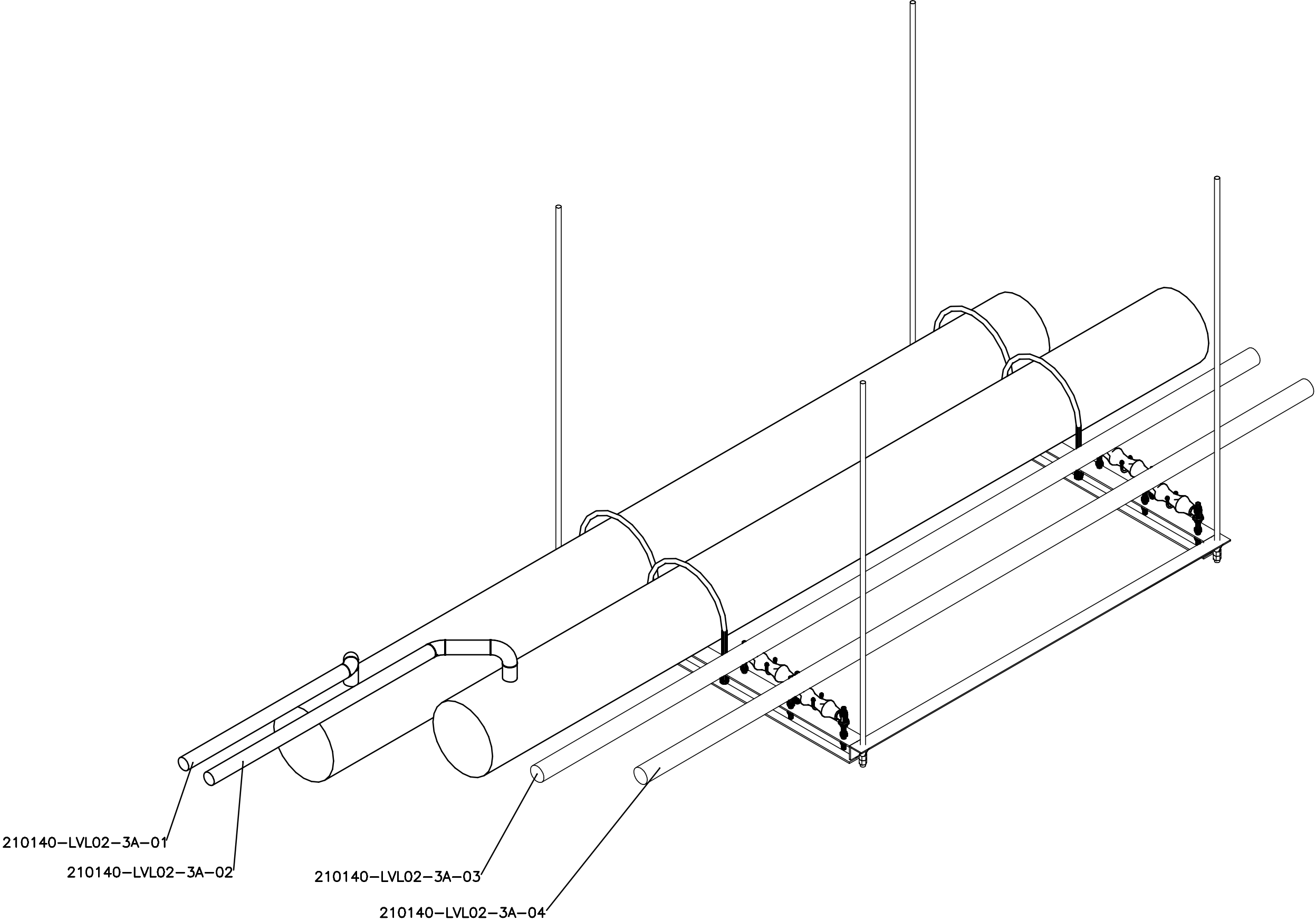


DRN JMM		5/25/2021	WUSM RESEARCH BUILDING		LEVEL 02 NRB RACK		SERVICE NAME		REF.DWG.		DRAWING NO./TRACKING NO.		201140-LVL02-3A		QTY.		1	SHT/NO	2 OF 3	REV	0
CHK					NRB																0
APP					LEVEL 02 NRB RACK																0
JOB NO.		210140																			0
FLANGE WEIGHT/ORIENTATION			QA/QC ACCEPT		SPEC.		ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS										
FITTING ORIENTATION					NA		NA	NA	NA	NA	NA		NA		NA		NA		NA		
BOLTS/CPLG'S/TH'D TIGHT					NA		NA	NA	NA	NA	NA		NA		NA		NA		NA		
SPOOL IDENTIFICATION					NA		NA	NA	NA	NA	NA		NA		NA		NA		NA		
REV		0	DATE		DESCRIPTION		DRN		CHK		APP										

MURPHY
CONSTRUCTORS • ENGINEERS • MECHANICAL • INDUSTRIAL

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

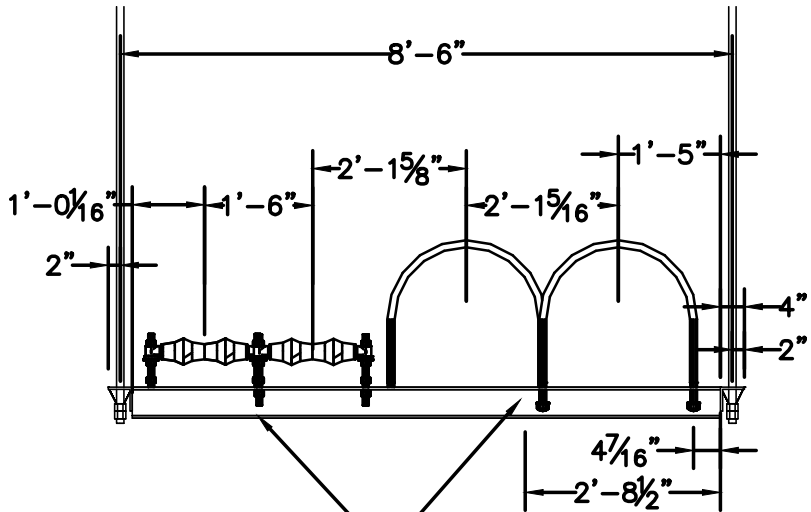
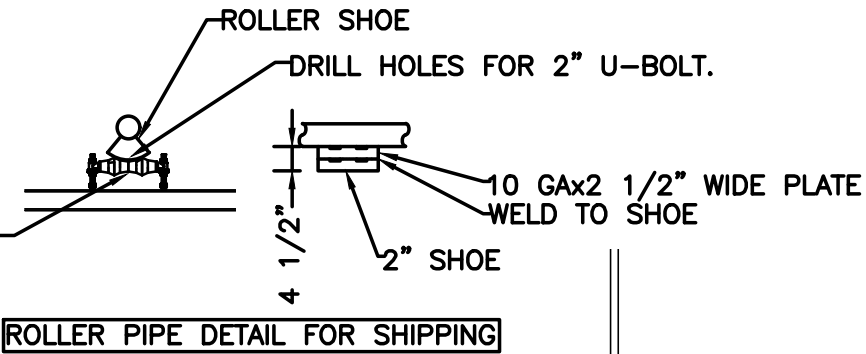
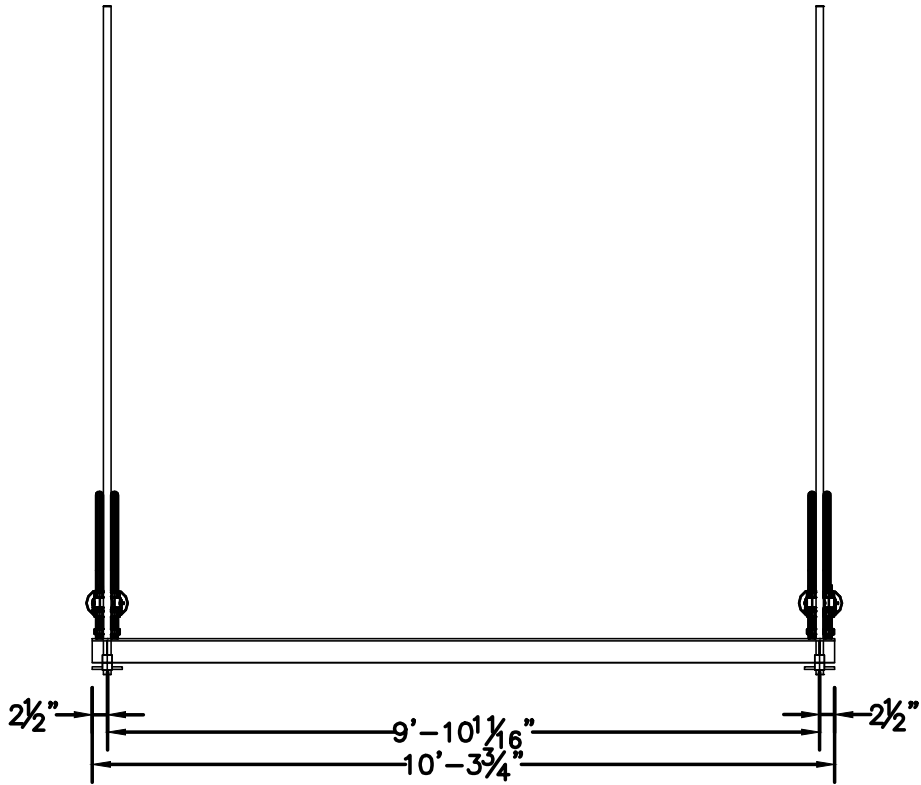
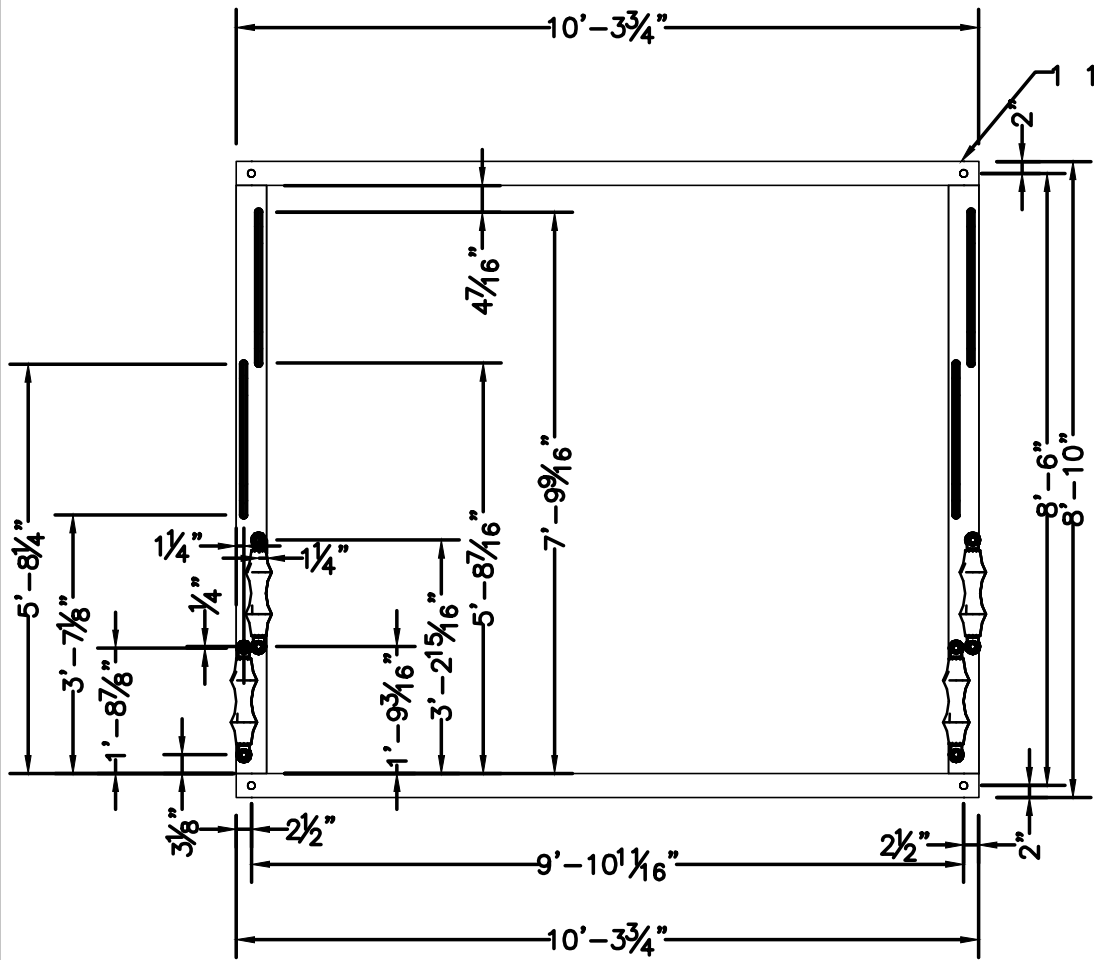


MURPHY
SINCE 1907

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

DRN JMM		5/26/2021	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	
								NA		NA		NA		NA		NA		MURPHY WPS#	
								0											
DRAWING NO./TRACKING NO.			QTY.		SHT/NO		REV		REV		DATE		DESCRIPTION				DRN	CHK	APP
201140-LVL02-3A			1		2 OF 3		0												



BOM-STEEL

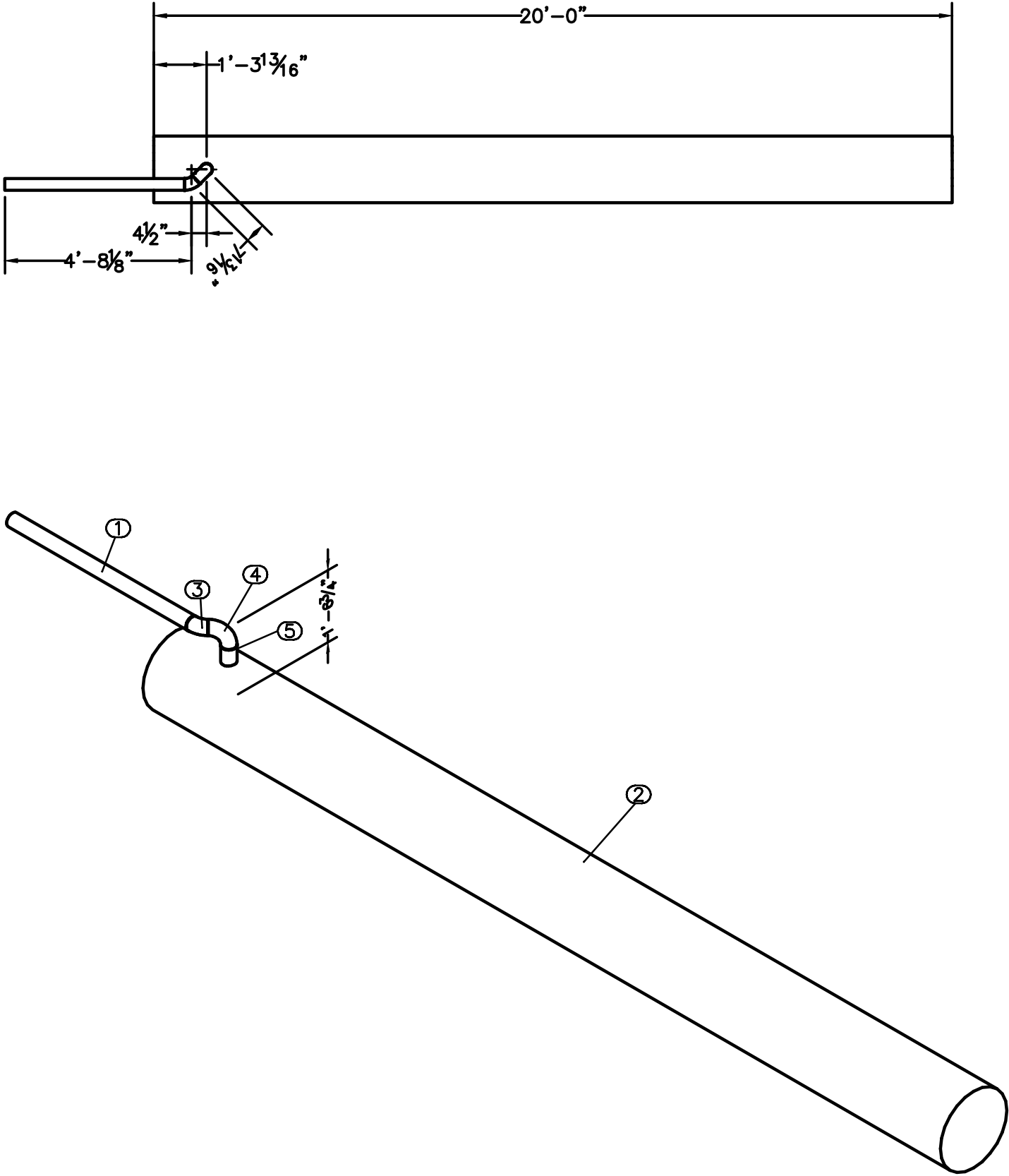
Item No	Order	Description	Qty	Size	Steel L
H1	Fig137	Fig.137 U-Bolt (4)-Nut Black	4	24	
H2	B3122-14 PLN	B3122 Adjustable Roller Support - PLN	4	14	
S1	W5x19	ASTM A36 CS Wide Flange	2	W5x19	98"
S2	L4x4x3/8	ASTM A36 CS Equal Angle	2	L4x4x3/8	123 3/4"

MURPHY
SINCE 1907
CONSTRUCTORS • ENGINEERS • MECHANICAL • INDUSTRIAL

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

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

DRN	JMM	5/26/2021	WUSM RESEARCH BUILDING	REV	0
CHK			NRB	SHT/NO	3 OF 3
APP			LEVEL 02 NRB RACK	QTY.	1
JOB NO.	210140	SERVICE NAME		DRAWING NO./TRACKING NO.	201140-LVL02-3A
REF.DWG.					



CWR

Murphy-PFFS-SPOOL-BOM						
Mark	Qty	Description	End 1	End 2	Lft	LDec
5	1	Sch 40 SA-53B CS ERW Pipe Saddle			4 1/8"	4.125
4	1	Std Wt SA234 WPB CS BW LR 90 Deg El				3
3	1	Std Wt SA234 WPB CS BW 45 Deg El				3
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	4'-6"	54.000
2	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	20'-0"	240.000
						Size
						20x3
						3
						3
						3
						20

MURPHY
SINCE 1907

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	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS
	NA	NA	NA	NA	MURPHY WPS#

0	REV	DATE	DESCRIPTION	DRN	CHK	APP

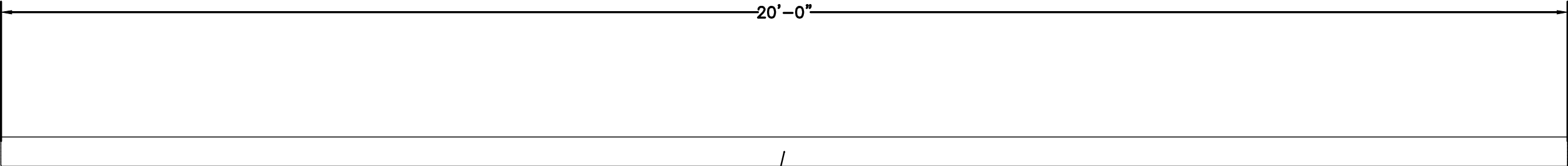
DRN	JMM	5/26/2021	WUSM RESEARCH BUILDING
CHK			NRB
APP			LVL02
JOB NO.	210140	SERVICE NAME	LVL02-3 RACK
REF.DWG.		QTY.	1
DRAWING NO./TRACKING NO.	210140-LVL02-3A-01	SHT/NO	1 of 1
		REV	0



Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
7	1	Sch 40 SA-53B CS ERW Pipe Saddle			4 1/8"	4.125	20x3
5	1	Std Wt SA234 WPB CS BW LR 90 Deg El					3
3	1	Std Wt SA234 WPB CS BW 45 Deg El					3
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	6'-2 3/16"	74.159	3
4	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	10 5/8"	10.607	3
2	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	20'-0"	240.000	20

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			
SPEC.		ASME	X-RAY	HYDRO	TEST	PWHT	COMMENTS
NA		NA	NA	NA	NA	NA	MURPHY WPS#
0							
REV	DATE	DESCRIPTION					
							DRN CHK APP

DRN JMM	5/26/2021	WUSM RESEARCH BUILDING NRB LVL02		
CHK				
APP				
JOB NO.	210140			
REF.DWG.		SERVICE NAME		
		LVL02-3 RACK		
DRAWING NO./TRACKING NO.		QTY.	SHT/NO	REV
210140-LVL02-3A-02		1	1 of 1	0



MPC

Murphy—PFFS—SPOOL—BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4

MURPHY

CONSTRUCTORS

ENGINEERS

MECHANICAL

INDUSTRIAL

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

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"/>

QA/QC ACCEPT		X-RAY		ASME	HYDRO TEST	PWHT	COMMENTS	
		NA	NA	NA	NA	NA	MURPHY WPS#	
0								
REV	DATE	DESCRIPTION			DRN	CHK	APP	

WUSM RESEARCH BUILDING	NRB			LVL02			
SERVICE NAME		LVL02-3 RACK					
REF.DWG.							
DRAWING NO./TRACKING NO.	QTY.	SHT/NO	REV				
210140-LVL02-3A-03	1	1 of 1	0				

