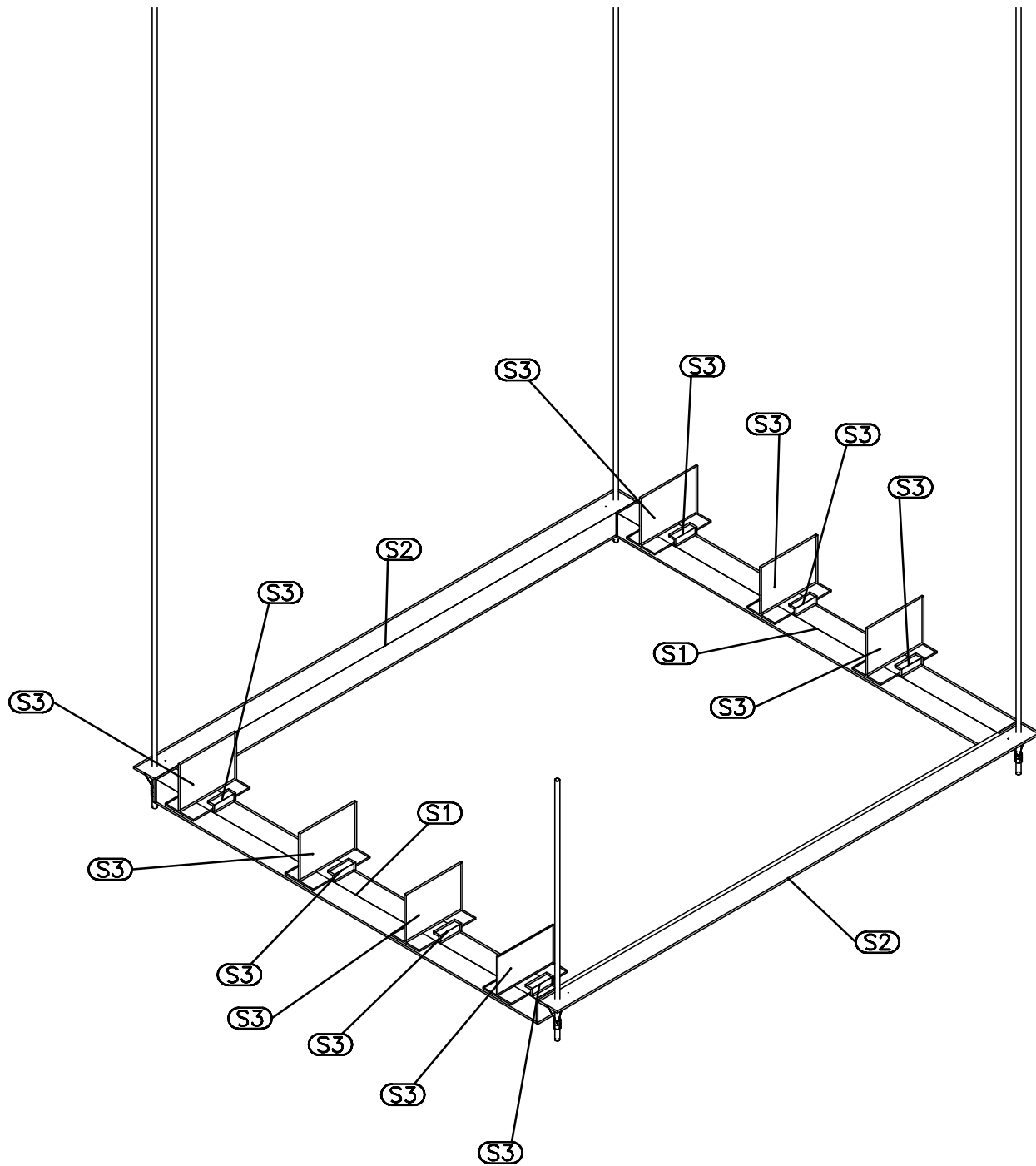
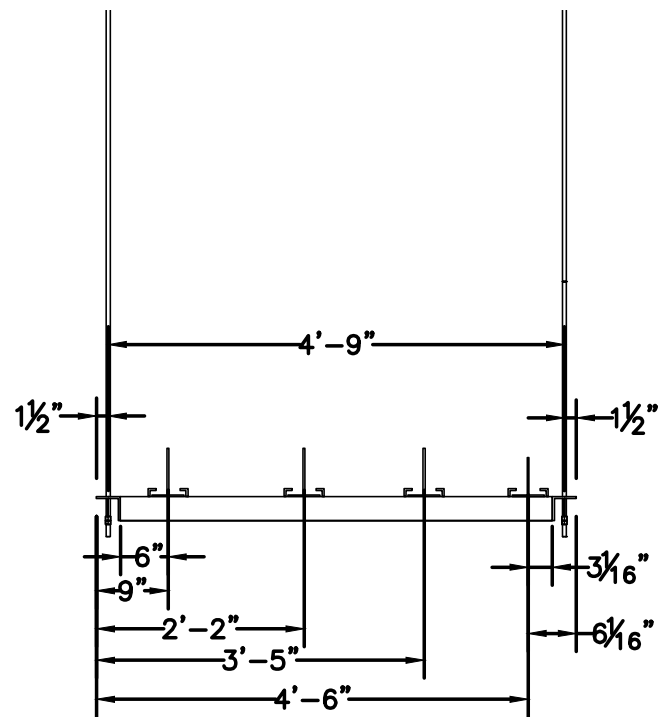


<div>MURPHY</div> <div>SINCE 1907</div> <div>CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL</div>			1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-sll.com											
DRN JMM		3/22/2021	WUSM RESEARCH BUILDING					QA/QC ACCEPT			FLANGE WEIGHT/ORIENTATION			<input type="checkbox"/>
CHK											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					SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS	
DRAWING NO./TRACKING NO.								NA	NA	NA	NA	NA	MURPHY WPS#	
210140-A-UPL1-14								0						
								REV	DATE	DESCRIPTION				CHK
														APP

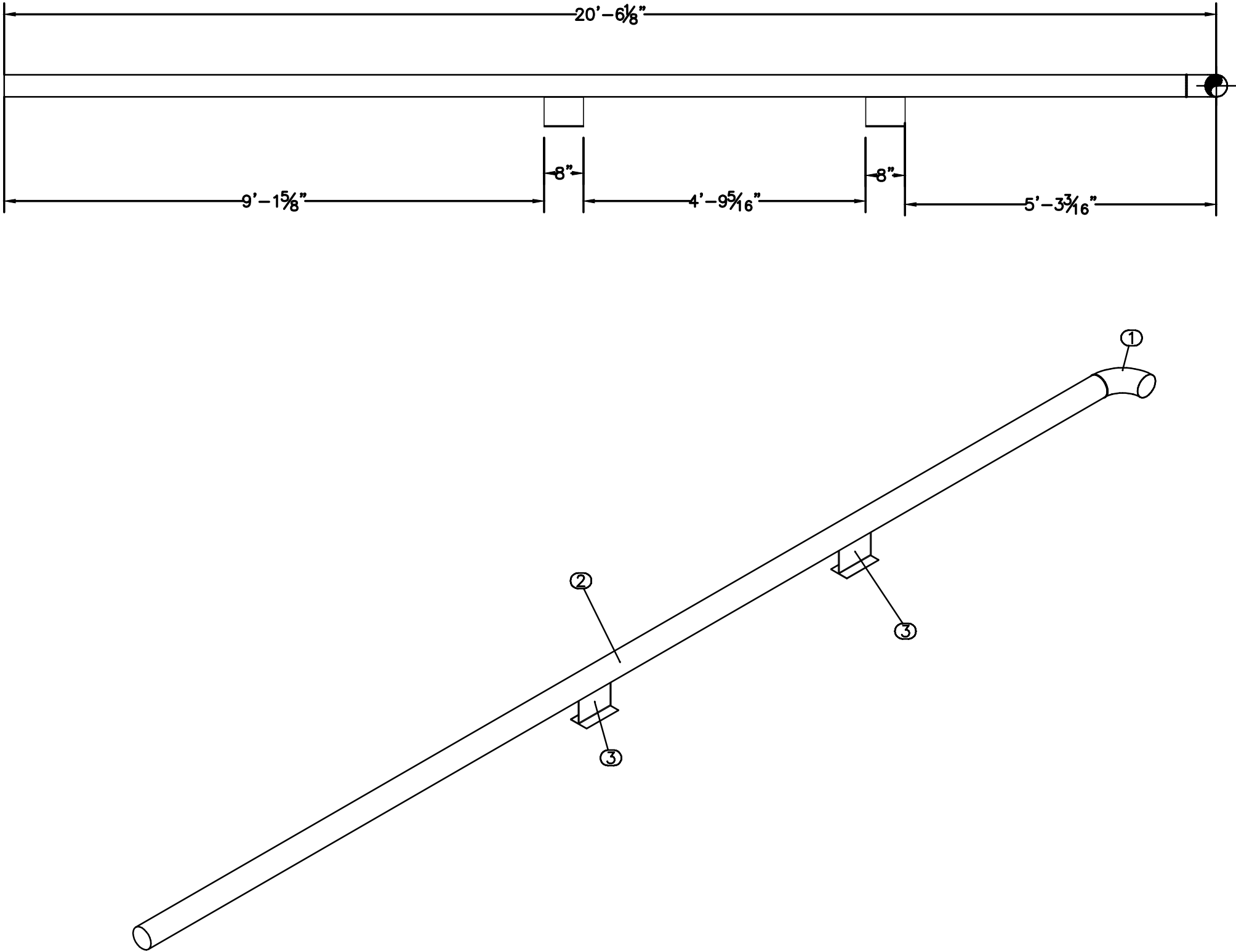


**MURPHY**  
SINCE 1907  
CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

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	3/22/2021	WUSM RESEARCH BUILDING NRB	
CHK			
APP			
JOB NO.	210140		
REF.DWG.		SERVICE NAME	
DRAWING NO./TRACKING NO. 210140-A-UPL1-14		QTY. 1	SHT/NO 2 of 2
		REV 0	



# 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

**MURPHY**  
SINCE 1907

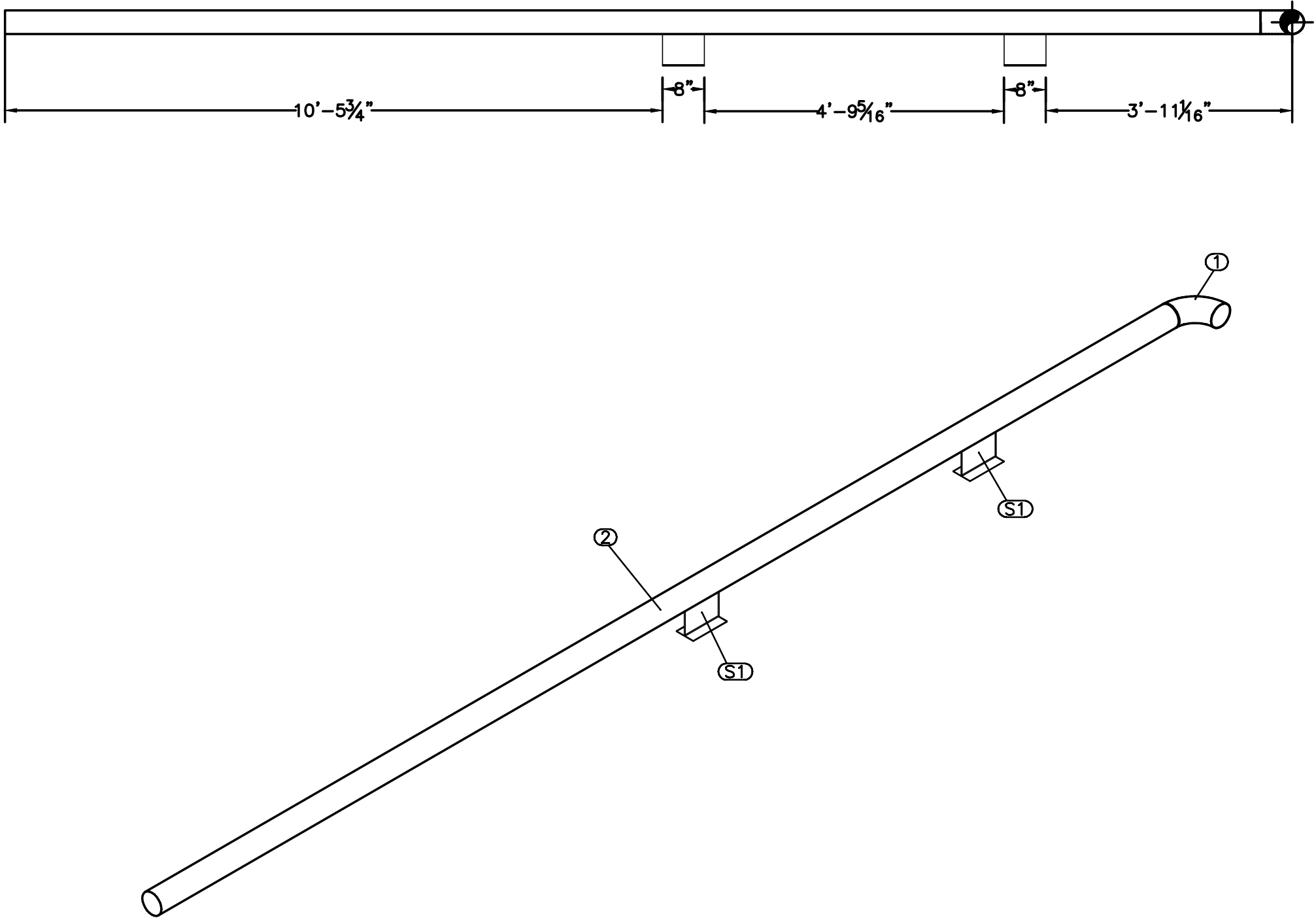
CONSTRUCTORS • ENGINEERS    MECHANICAL • INDUSTRIAL

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

DRN	JMM	3/22/2021	WUSM RESEARCH BUILDING				
CHK			NRB				
APP							
JOB NO.	210140	SERVICE NAME					
REF.DWG.		UPL1-14 RACK					
DRAWING NO./TRACKING NO.	210140-A-UPL1-14-01	QTY.	1	SHT/NO	1 of 1	REV	0



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

BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
S1	WT6x7		2		8"

**MURPHY**  
SINCE 1907

CONSTRUCTORS • ENGINEERS  
MECHANICAL • INDUSTRIAL

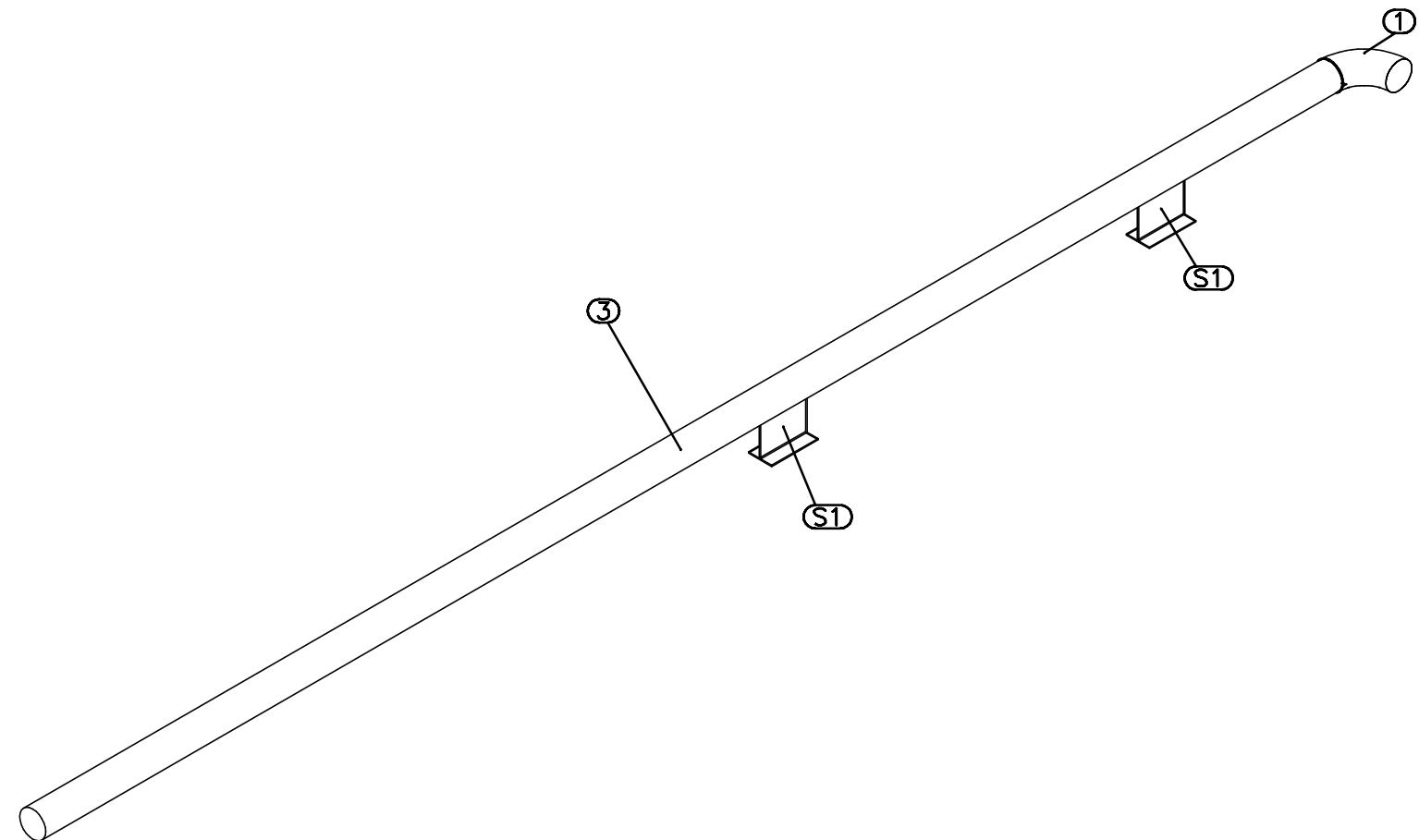
1233 N. Price Rd.  
St. Louis, MO 63132-2303  
314-997-6600 phone  
BIMCAD@murphy-stl.com

<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#

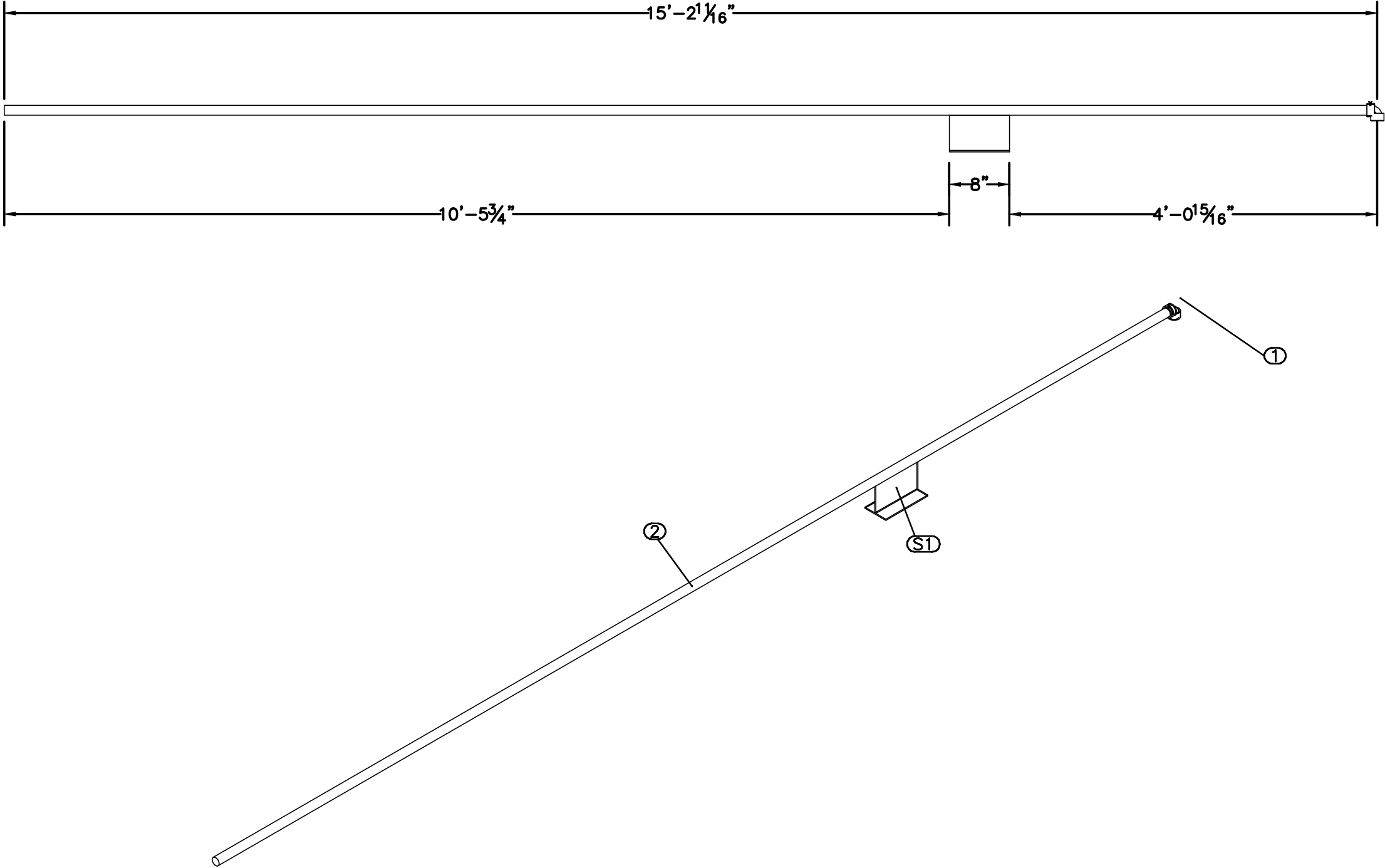
0	REV	DATE	DESCRIPTION	DRN	CHK	APP
---	-----	------	-------------	-----	-----	-----

DRN JMM	3/22/2021	WUSM RESEARCH BUILDING			
CHK		NRB			
APP					
JOB NO.	210140	SERVICE NAME			
REF.DWG.		UPL1-14 RACK			
DRAWING NO./TRACKING NO.	210140-A-UPL1-14-02	QTY.	1	SHT/NO	1 of 1
				REV	0



BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
S1	WT6x7		2		8"

	
CONSTRUCTORS	ENGINEERS
MECHANICAL	INDUSTRIAL
1233 N. Price Rd. St. Louis, MO 63132-2303 314-997-6600 phone BIMCAD@murphy-stl.com	
WUSM RESEARCH BUILDING NRB	
DRN JMM	3/22/2021
CHK	
APP	
JOB NO.	210140
REF.DWG.	
SERVICE NAME UPL1-14 RACK	
DRAWING NO./TRACKING NO. 210140-A-UPL1-14-03	QTY. 1 SHT/NO 1 of 1 REV 0
QA/QC ACCEPT _____	
FLANGE WEIGHT/ORIENTATION FITTING ORIENTATION BOLTS/CPLG'S/TH'D TIGHT SPOOL IDENTIFICATION	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SPEC. NA 0 REV	ASME NA X-RAY NA HYDRO TEST NA PWHT NA COMMENTS MURPHY WPS#
DATE DESCRIPTION	DRN CHK APP



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	3M A105 FS SW 90 Deg Ell					1
2	1	Sch 80 A106B CS SMLS Pipe	SW	SW	15'-1 5/8"	181.651	1

BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
S1	WT5x6		1		8"

DRN

JMM

CHK

APP

JOB NO.

210140

REF.DWG.

DRAWING NO./TRACKING NO.

210140-A-UPL1-14-04

3/22/2021

SERVICE NAME

UPL1-14 RACK

QTY.

1

SHT/NO

1 of 1

REV

0

WUSM RESEARCH BUILDING

NRB

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

APP

CONSTRUCTORS

ENGINEERS

MECHANICAL

INDUSTRIAL

1233 N. Price Rd.

St. Louis, MO 63132-2303

314-997-6600 phone

BIMCAD@murphy-stl.com