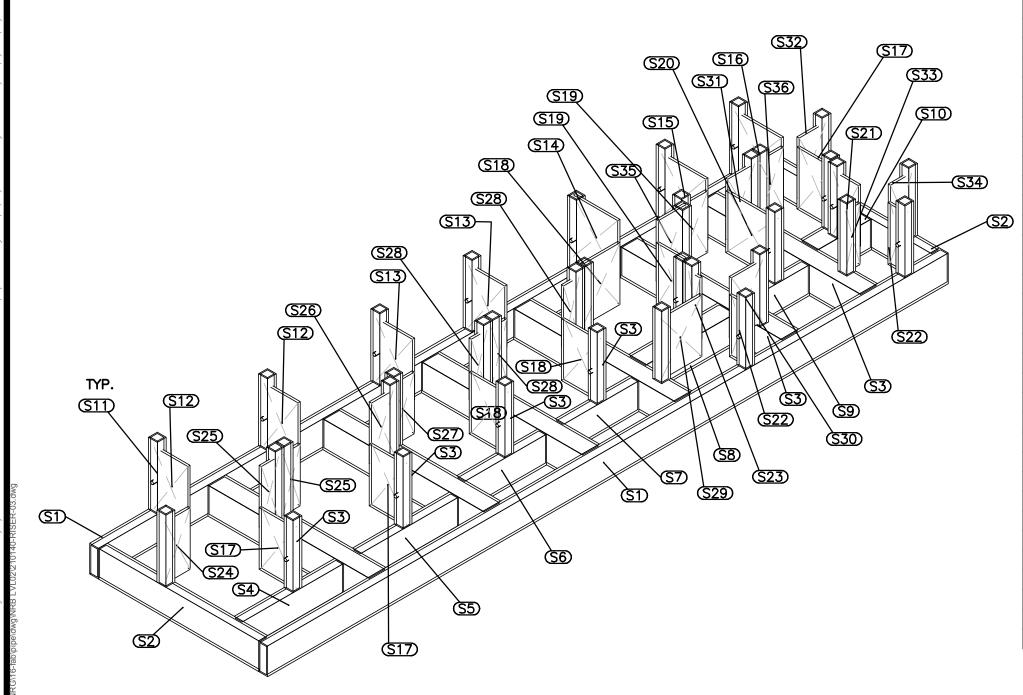
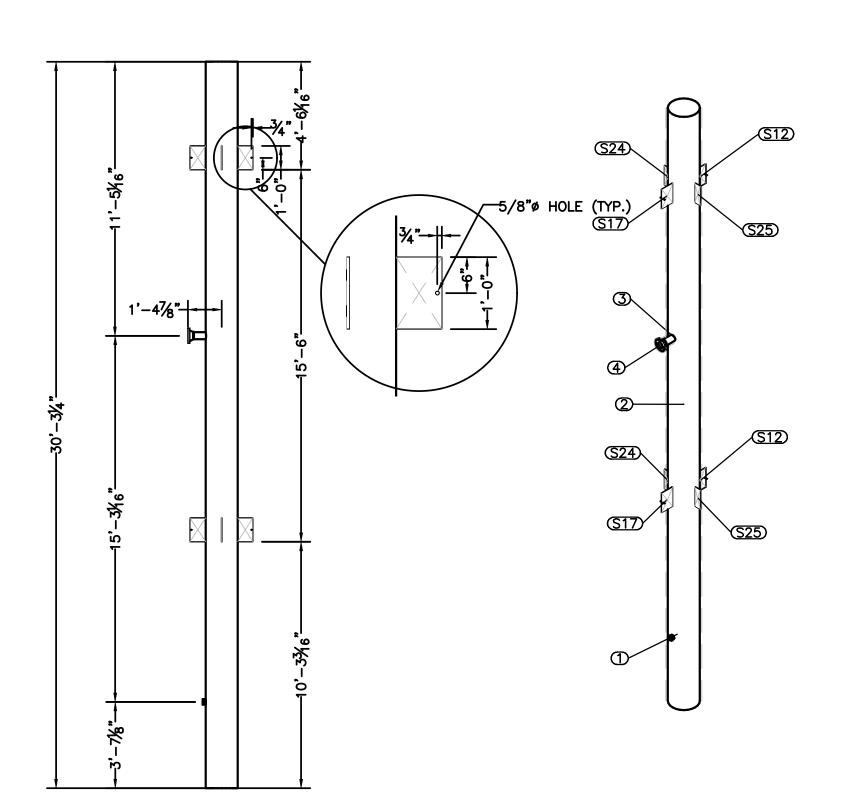


NOTE: PLATE IS 2" HIGHER ON THE MPS LINE THAN THE OTHERS ON THE RISER FOR EXPANSION.



		BOM-STE	EL	,		A	ΛU		P	H	Y	7
Item No	Order	Description	Qty	Size	Steel L		LUCTORS •EI	ngineers . Pric		SI ANICAL •	industri	IAL
S1	CS RECT Tube		4	6x2x1/4"	153"	:	St. Lou 314-9	is, MO	0 63		2303 ne	
S2	CS RECT Tube		4	6x2x1/4"	36"		BIMCAD					
S3	CS RECT Tube		12	6x4x1/4"	36"							APP
S4	CS RECT Tube		2	6x2x1/4"	22 1/2"							¥
S5	CS RECT Tube		2	6x2x1/4"	21 3/4"	FLANGE WEIGHT/ORIENTATION			Ę			CHK
S6	CS RECT Tube		2	6x2x1/4"	18 1/4"	ΓAΤ	누		COMMENTS	\$		
S7	CS RECT Tube		2	6x2x1/4"	16 3/4"		FITTING ORIENTATION BOLTS/CPLG'S/TH'D TIGHT	Z	ಶ	MURPHY WPS#		DRN
88	CS RECT Tube		2	6x2x1/4"	20°	JRI.	ORIENTATION PLG'S/TH'D TIV	SPOOL IDENTIFICATION		[툪		
S9	CS RECT Tube		2	6x2x1/4"	13 3/4")/ <u> </u>	Ϋ́	: <u>`</u>	\vdash	Į≊		
S10	CS RECT Tube		2	6x4x1/4"	12"	<u>ㅎ</u>	JEN G'S		I ⊨	_		Ш
S11	CS SQ Tube	ASTM A36 CS Square Tube	72	SQ2x2x1/4	14"	WE	R Ÿ		PWHT	≨		
S12		ASTM A36 CS Plate 1/2" Thick	4	12.000 x 7.625		GE	FITTING BOLTS/C	, ,	F	┢		
S13		ASTM A36 CS Plate 1/2" Thick	4	12.000 x 8.125		AN AN	E L	ğ	HYDRO TEST	 ≨		<u>N</u>
S14		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 10.000		FL	H M	Š]	Z		PP
S15		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 9.875					£	┝		DESCRIPTION
S16		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 10.375		 		- 1	≱	 ≰		ᆸ
S17		ASTM A36 CS Plate 1/2" Thick	6	12.000 x 7.875		<u>Б</u>			X-RAY	Z		
S18		ASTM A36 CS Plate 1/2" Thick	6	12.000 x 8.250		QA/QC ACCEPT			\vdash	┝		
S19		ASTM A36 CS Plate 1/2" Thick	4	12.000 x 6.250		AC			ASME	_		Ш
S20		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 11.250		\mathcal{Z}			হ	Į≨		اسا
S21		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 5.563		Λ			\vdash	┝		DATE
S22		ASTM A36 CS Plate 1/2" Thick	4	12.000 x 4.000		Ø			SPEC.	_		Н
S23		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 2.500				ı	쮼	Į≨	。	쯦
S24		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 5.688		(2			_	Ц		Ц
S25		ASTM A36 CS Plate 1/2" Thick	4	12.000 x 3.875		ILDING					> (2
S26		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 4.875		ᅙ				-	<u> </u>	_
S27		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 5.000		_						
S28		ASTM A36 CS Plate 1/2" Thick	6	12.000 x 3.500		回	(MECH RISERS			١	5 or 5
S29		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 9.250		工	!	SE				P
S30		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 7.000		RESEARCH	NRB	R			SHT/NO	၅
S31		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 6.000		١×	Z,	_			Ē	
S32		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 5.875		S		$\overline{\mathbf{C}}$		ŀ	<u> </u>	_
S33		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 3.250		RE		ME			٠, ٦	_
S34 S35		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 4.813					SERVICE NAME	ļ	Ę <u> </u>	
S36		ASTM A36 CS Plate 1/2" Thick	2	12.000 x 6.250 12.000 x 5.500		WUSM			VCE			
230		ASTM A36 CS Plate 1/2" Thick		12.000 X 3.300		I₹			SER			
	QT	Y 2				7/14/2021		40			CING NO.	(ISEK-US



		Murphy-PFFS-	SP) 	L-BO	М		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
3	1	Sch 40 SA-53B CS ERW Pipe Saddle			6"	6.000	16x3	
4	1	150lb RF Sch 40 Bore SA105 CS WN Flg					3	
1	1	3000∦ FS Thread—0—Let			1 1/2"	1.500	2x16	
2	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	16	Е

	ВОМ-	-STEEL-PLA	TE	
ltem No	Size	Description	Qty	Area (sq ft)
S17	12.000 x 7.875	ASTM A36 CS Plate 1/2" Thick	2	0.840
S24	12.000 x 5.688	ASTM A36 CS Plate 1/2" Thick	2	0.627
S12	12.000 x 7.625	ASTM A36 CS Plate 1/2" Thick	2	0.816
S25	12.000 x 3.875	ASTM A36 CS Plate 1/2" Thick	2	0.450

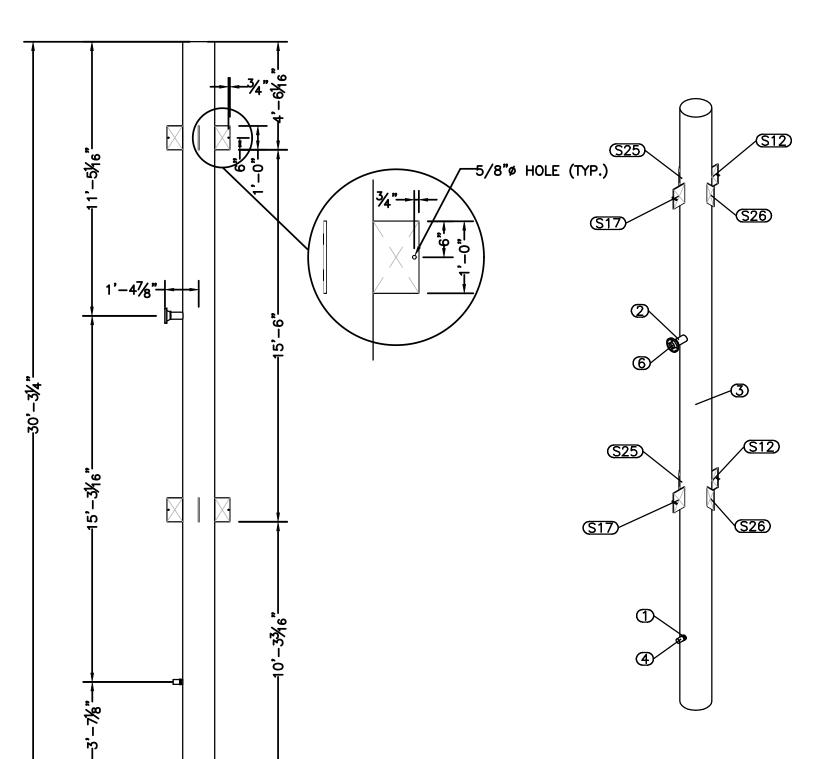
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St. Louis, M0 63132–2303
314–997–6600 phone
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APP	DRN CHK APP	Nac		NOTE
	₽S#	MURPHY WPS#	NA MI	NA N
	COMMENTS	8	PWHT	dro test
		ATION	SPOOL IDENTIFICATION	SPOOL
	⊨	'D TIGH	BOLTS/CPLG'S/TH'D TIGHT	BOLTS/
		NOI	FITTING ORIENTATION	FITTIN
	'ATION	ORIENT	FLANGE WEIGHT/ORIENTATION	FLANG

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M	7/16/2021	MICH		DESEABLU
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210	210140		MEC	MECH RISER
		SERVICE NAME	WWE	
ö		.7	1014	210140-RISER
NO./TR	NO./TRACKING NO.		QTY.	SHT/NO
140-	140-RISER-03-01	3-01	-	1 or



		Murphy-PFFS-	SP) 	L-BO	М		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
2	1	Sch 40 SA-53B CS ERW Pipe Saddle			6"	6.000	16x3	
6	1	150lb RF Sch 40 Bore SA105 CS WN Flg					3	
4	1	No.647 TT Dielectric Transition Fitting					2	
1	1	3000# FS Thread-0-Let			1 1/2"	1.500	2x16	6
3	1	Std Wt SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	16	l _

	BOM-	-STEEL-PLA	TE	
Item No	Size	Description	Qty	Area (sq ft)
S25	12.000 x 3.875	ASTM A36 CS Plate 1/2" Thick	2	0.450
S17	12.000 x 7.875	ASTM A36 CS Plate 1/2" Thick	2	0.840
S26	12.000 x 4.875	ASTM A36 CS Plate 1/2" Thick	2	0.548
S12	12.000 x 7.625	ASTM A36 CS Plate 1/2" Thick	2	0.816

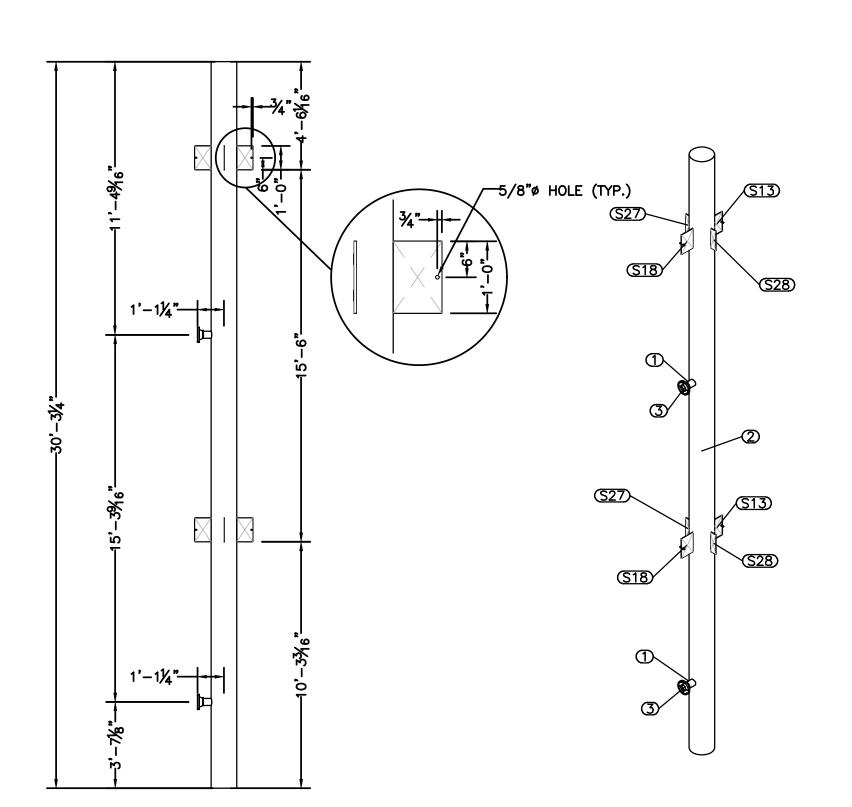
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	#S ∦	MURPHY WPS#	NA MI	Z	
	COMMENTS	8	H	est pwht	LG)
		ATION	OL IDENTIFICATION	OL IDE	\simeq
	⊢	'D TIGH	TS/CPLG'S/TH'D TIGHT	rs/cpl	_
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| NEW | T/16/2021 | WUSM RESEARCH BU | SCHK | NRB | NRB | NO. 210140 | SERVICE NAME | SERVICE NA



		Murphy-PFFS-	SP) 	L-BO	М		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
1	2	Sch 40 SA-53B CS ERW Pipe Saddle			4"	4.000	12x3	
3	2	150lb RF Sch 40 Bore SA105 CS WN Flg					3	
2	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	12	L

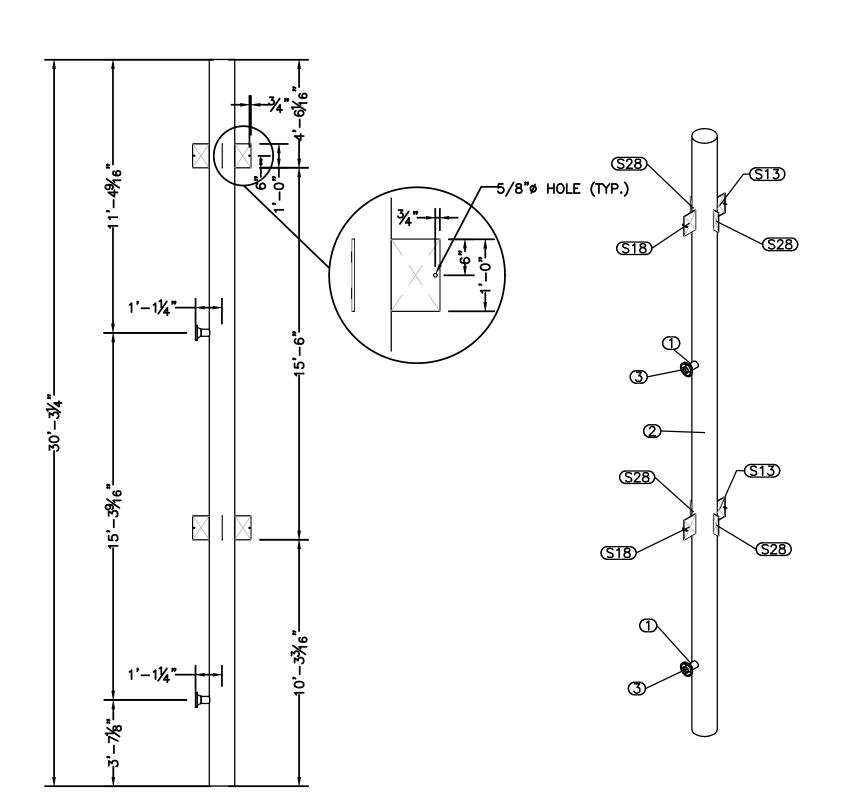
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	вом-	-STEEL-PLA	TE	
Item No	Size	Description	Qty	Area (sq ft)
S27	12.000 x 5.000	ASTM A36 CS Plate 1/2" Thick	2	0.560
S18	12.000 x 8.250	ASTM A36 CS Plate 1/2" Thick	2	0.877
S13	12.000 x 8.125	ASTM A36 CS Plate 1/2" Thick	2	0.864
S28	12.000 x 3.500	ASTM A36 CS Plate 1/2" Thick	2	0.414

2021 V	MOLIN	PF	RESEARCH BILLI DING	SING	Q	VQC A	QA/QC ACCEPT		FLANGE	E WEIGH	FLANGE WEIGHT/ORIENTATION	ATION	
		Ĺ							FITTING	FITTING ORIENTATION	LATION		
		ì	מאסום ויפ						BOLTS/	CPLG'S/	BOLTS/CPLG'S/TH'D TIGHT	_	
		Σ	MECH RISERS						SPOOI	IDENTIF	SPOOL IDENTIFICATION		
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_	SERVICE IN	, ,		_	SPEC.	ASME	X-RAY	H	X-RAY HYDRO TEST PWHT	PWHT	8	COMMENTS	
	7	101	0140-RISER-03	_	4	1	2	t	4	1	#SOM ANGOLIN		
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		Murphy-PFFS-	SP) 	L-BO	М		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
1	2	Sch 40 SA-53B CS ERW Pipe Saddle			4"	4.000	12x3	
3	2	150lb RF Sch 40 Bore SA105 CS WN Flg					3	
2	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	12	L

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	вом-	-STEEL-PLA	ΤE	
Item No	Size	Description	Qty	Area (sq ft)
S28	12.000 x 3.500	ASTM A36 CS Plate 1/2" Thick	2	0.414
S18	12.000 x 8.250	ASTM A36 CS Plate 1/2" Thick	2	0.877
S28	12.000 x 3.500	ASTM A36 CS Plate 1/2" Thick	2	0.414
S13	12.000 x 8.125	ASTM A36 CS Plate 1/2" Thick	2	0.864

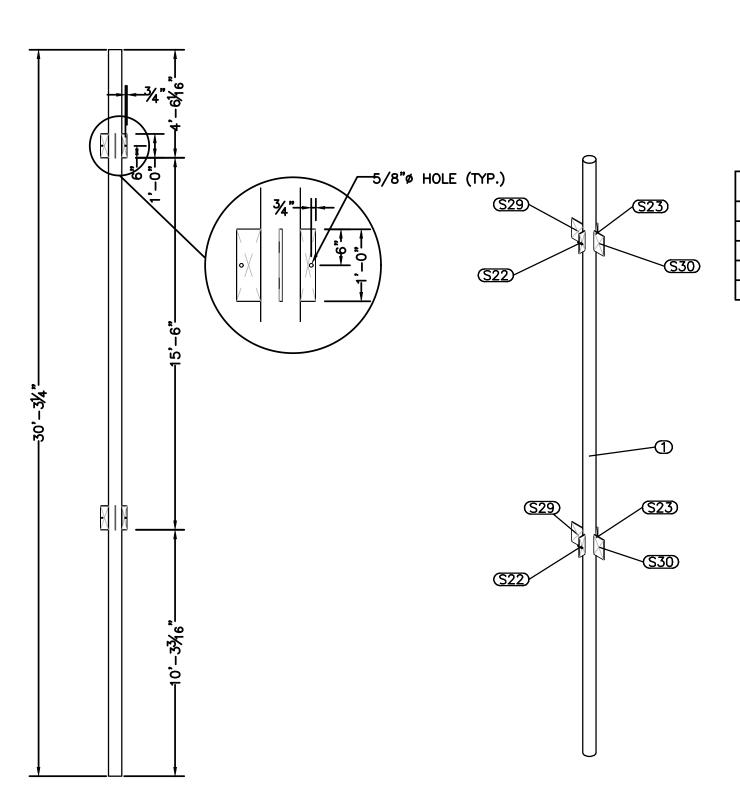
WIISM RES	WIISM RESEARCH BIIII DING		QA/QC ACCEPT	CCEPT	FLANGE	FLANGE WEIGHT/ORIENTATION	RIENTA	NOI
		<u> </u>			FITTING	FITTING ORIENTATION	NOI	
					BOLTS/C	BOLTS/CPLG'S/TH'D TIGHT	D TIGHT	
MEC	MECH RISERS				SPOOL II	SPOOL IDENTIFICATION	VIION	
SERVICE NAME	אל מבטום ל	SPEC.	\vdash	X-RAY	ASME X-RAY HYDRO TEST PWHT	PWHT	COM	COMMENTS
41017	Z10140-RISER-03	AN	4	₹.	₹N	NA MIRPHY WPS.	SOM AHOS	
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J-1040-1	<u> </u>	ב כ	1111		TOTO COOL		707 NGV	100

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REF.DWG.

DRAWING NO./TRACKING NO.

210140-RISER-03-



		Murphy-PFFS-	-SF	00	L-BC	M	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	6

ВОМ-	<u>-STEEL-PLA</u>	TE	
Size	Description	Qty	Area (sq ft)
12.000 x 7.000	ASTM A36 CS Plate 1/2" Thick	2	0.755
12.000 x 2.500	ASTM A36 CS Plate 1/2" Thick	2	0.317
12.000 x 9.250	ASTM A36 CS Plate 1/2" Thick	2	0.974
12.000 x 4.000	ASTM A36 CS Plate 1/2" Thick	2	0.463
	Size 12.000 x 7.000 12.000 x 2.500 12.000 x 9.250	Size Description 12.000 x 7.000 ASTM A36 CS Plate 1/2" Thick 12.000 x 2.500 ASTM A36 CS Plate 1/2" Thick 12.000 x 9.250 ASTM A36 CS Plate 1/2" Thick	12.000 x 7.000 ASTM A36 CS Plate 1/2" Thick 2 12.000 x 2.500 ASTM A36 CS Plate 1/2" Thick 2 12.000 x 9.250 ASTM A36 CS Plate 1/2" Thick 2

MURPHY

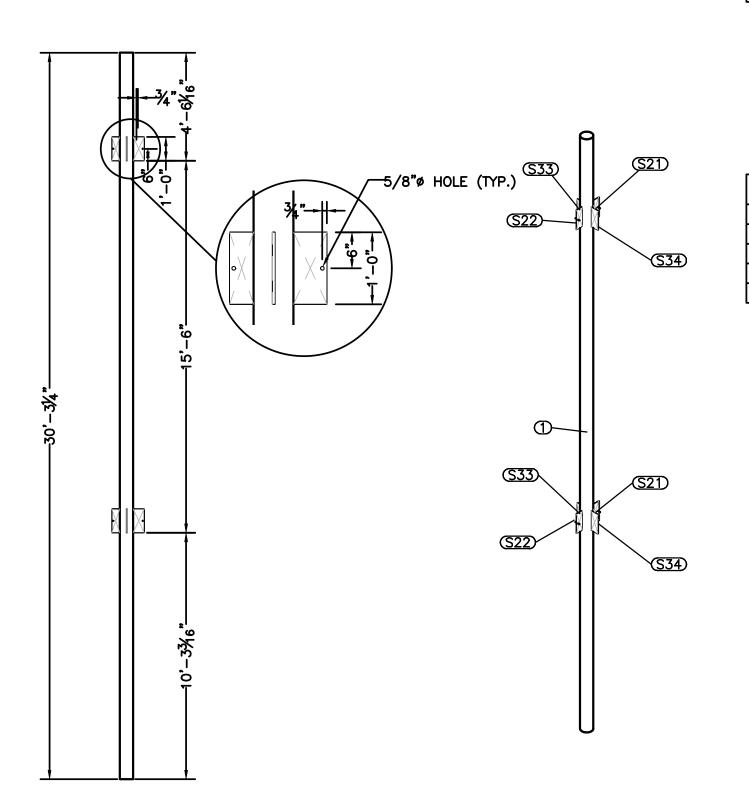
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233 N. Price	Rd.
	63132-2303
14-997-66	00 phone
	phy-stl.com

بب	QA/QC ACCEPT	FLANG	E WEIGH ¹	FLANGE WEIGHT/ORIENTATION	_ _ ~
		FITTIN	FITTING ORIENTATION	ATION	
		BOLTS/	/CPLG'S/T	BOLTS/CPLG'S/TH'D TIGHT	
		SPOOL	SPOOL IDENTIFICATION	CATION	
	X-RAY	X—RAY HYDRO TEST	PWHT	COMMENTS	
	¥	N	NA	MURPHY WPS#	
	DES	DESCRIPTION		DRN CHK	APP

	I	SP	Z	٥	
BUILDING				<u>ر</u>	<u>_</u>
BOIL	RS	F 0 - 4	3	•	_
ARCH	I RISERS	-PICF	אַן אַן	SHT/NO	<u></u>
VUSM RESEARCH NRB	MECH	. NAME 210140-RISER-03		<u></u> ¥	_
MSO.		ERVICE NAME 21(1	<u> </u>	

	ME	SERVICE NAME	2101	QTY.	5-05 1
	210140			IG NO./TRACKING NO.)140-RISER-03-05
	210			NO./TR	140-
	<u>0</u>		MG.	ල	$\overline{}$



		Murphy-PFFS-	-SF	900	L-BC)M	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	30'-3 1/4"	363.250	6

	BOM-	-STEEL-PLA	TE	
Item No	Size	Description	Qty	Area (sq ft)
S34	12.000 x 4.813	ASTM A36 CS Plate 1/2" Thick	2	0.542
S21	12.000 x 5.563	ASTM A36 CS Plate 1/2" Thick	2	0.615
S33	12.000 x 3.250	ASTM A36 CS Plate 1/2" Thick	2	0.390
S22	12.000 x 4.000	ASTM A36 CS Plate 1/2" Thick	2	0.463

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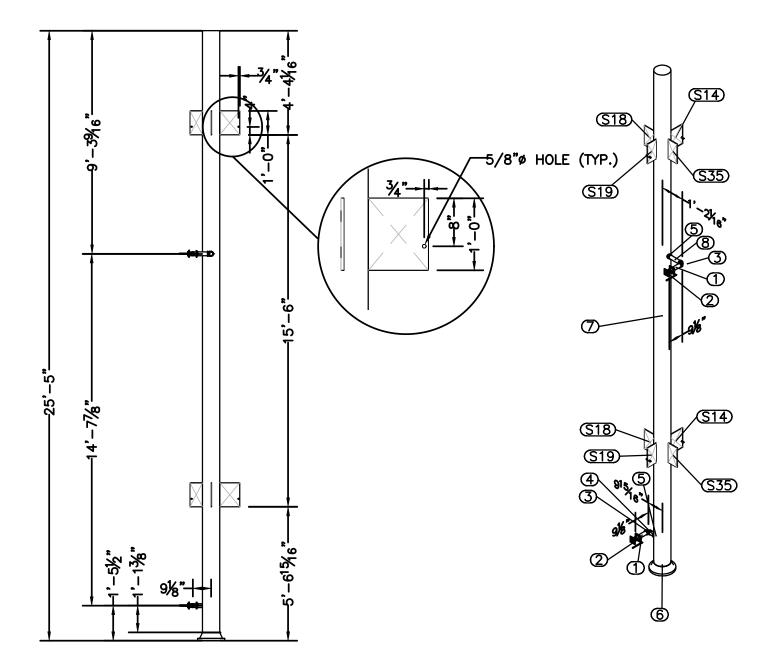
St. Louis MO 63132-2303

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t. Louis, MO	63132-2303
14-997-66	00 phone
IMCAD@mur	phy-stl.com
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BIII	BUILDING		A/QC	QA/QC ACCEPT	FLA	FLANGE WEIGHT/ORIENTATION	r/orient	ATION
)					E	FITTING ORIENTATION	ATION	
۷					BOL	BOLTS/CPLG'S/TH'D TIGHT	H'D TIGH	⊢
ر ان					SPC	SPOOL IDENTIFICATION	CATION	
70-0		SPEC.	ASME		HYDRO T	X-RAY HYDRO TEST PWHT	8	COMMENTS
		¥	2	¥	Ž	¥	MURPHY WPS#	7
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	>	REV DATE	DATE	IO	DESCRIPTION	7	DRN CHK	胀

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7/16/2021 WIICH BECEARCH BIIII DING		אבם . כליב	MECH RISERS		210140-RISER-05	SHT/NO	101
PFCF	1	_	MECH	3	0140		_
Noll	5			SERVICE NAME	21	any.	- - -
<u> </u>				SE			-03-
/16/2021						KING NO.	RISFR-03-06
7			40			Į	$\overline{\Delta}$

NOTE: PLATE IS 2" ON THE MPS LINE THAN THE OTHERS ON THE RISER FOR EXPANSION.



		Murphy-PFFS-	SP	00	L-B	ОМ		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	
6	1	150lb RF Sch 40 Bore SA105 CS WN Flg					8	
2	2	83A-140 CS 1500 lb 3pc FP Ball Valve THD					1-1/2	
3	2	3M A105 FS SW 90 Deg Ell					1-1/2	L
5	2	3000 ∦ FS Soc-0-Let			1 3/8"	1.375	1-1/2x8	[
7	1	Sch 40 SA-53B CS Smls Pipe PE	BEV	BEV	25'-0 7/8"	300.875	8	١.
1	2	Sch 80 A106B CS SMLS Pipe	SW	MPT	6"	6.000	1-1/2	9
4	1	Sch 80 A106B CS SMLS Pipe	SW	SW	3 1/4"	3.264	1-1/2	Š
8	1	Sch 80 A106B CS SMLS Pipe	SW	SW	7 3/8"	7.374	1-1/2	i
								1 7

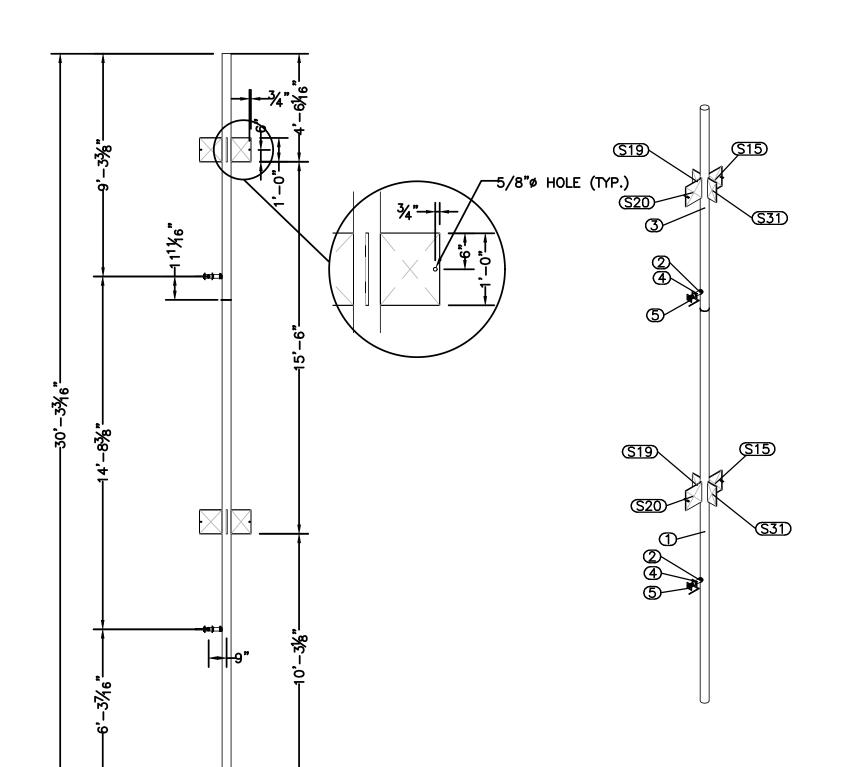
	BOM-	-STEEL-PLA	ΤE	
Item No	Size	Description	Qty	Area (sq ft)
S18	12.000 x 8.250	ASTM A36 CS Plate 1/2" Thick	2	0.877
S14	12.000 x 10.000	ASTM A36 CS Plate 1/2" Thick	2	1.047
S35	12.000 x 6.250	ASTM A36 CS Plate 1/2" Thick	2	0.682
S19	12.000 x 6.250	ASTM A36 CS Plate 1/2" Thick	2	0.682

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90		200		
	# Sd	MURPHY WPS#	NA MI	¥
	COMMENTS	8	PWHT	DRO TEST
		ATION	SPOOL IDENTIFICATION	SPOOL
	E	'D TIGH	BOLTS/CPLG'S/TH'D TIGHT	BOLTS/
		NOI	FITTING ORIENTATION	FITTING
	'ATION	ORIENT	FLANGE WEIGHT/ORIENTATION	FLANGE

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2A/QC						
	l		SPEC.	¥	0	
WUSM RESEARCH BUILDING	NRB MECH RISERS		210140_PISEB_03	to NISEN OS	SHI/NO REV	
A RE	Ā	IAME	101			•
WUSN		SERVICE NAME		7	1	

ME SERVICE NAME 2101 -07



		Murphy-PFFS-	SP	OC)L-B	OM		
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size	ı
5	2	83A-140 CS 1500 lb 3pc FP Ball Valve THD					1-1/2	
2	2	3000 ∦ FS Soc-0-Let			1 3/8"	1.375	1-1/2x4	
1	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	4	L
3	1	XH SA-53B CS SMLS Pipe	BEV	BEV	10'-3 1/16"	123.035	4	ı
4	2	Sch 80 A106B CS SMLS Pipe	SW	MPT	4"	4.000	1-1/2	ı

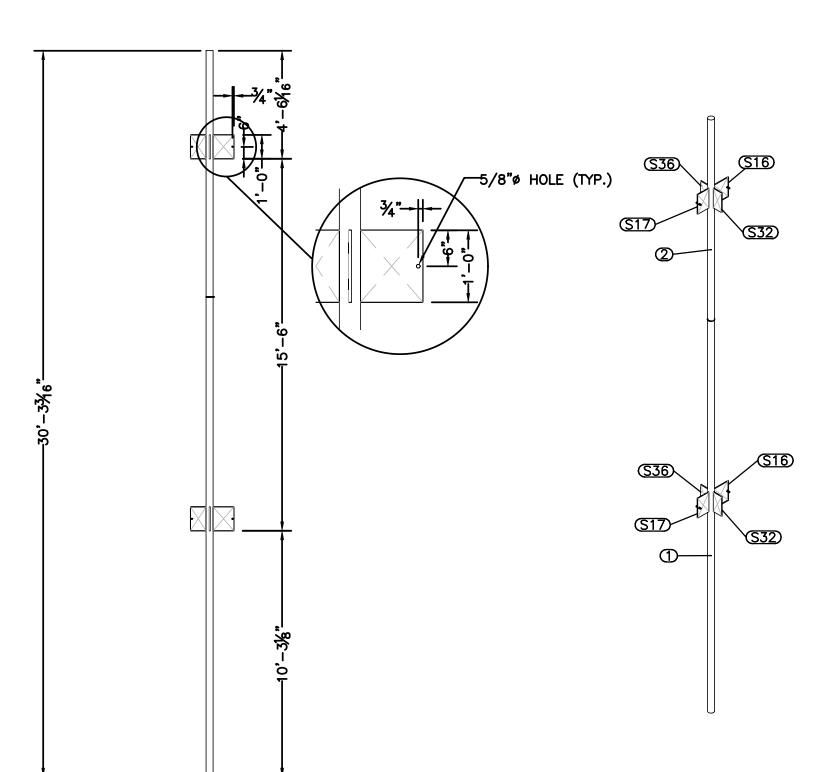
	BOM-	-STEEL-PLA	TE	
Item No	Size	Description	Qty	Area (sq ft)
S15	12.000 x 9.875	ASTM A36 CS Plate 1/2" Thick	2	1.035
S31	12.000 x 6.000	ASTM A36 CS Plate 1/2" Thick	2	0.657
S20	12.000 x 11.250	ASTM A36 CS Plate 1/2" Thick	2	1.169
S19	12.000 x 6.250	ASTM A36 CS Plate 1/2" Thick	2	0.682

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APP	DRN CHK APP	Nac			
	#S _d	MURPHY WPS#	3	NA	
	COMMENTS	8		PWHT	ST
		ATION	\circ	OL IDENTIFICATION	ᅵ
	E	'D TIGH	I	TS/CPLG'S/TH'D TIGHT	S
		NOIL	ά	ING ORIENTATION	ž
	ATION	ORIENT	≅	IGE WEIGHT/ORIENTATION	Š

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		Murphy-PFF	<u>S-</u> :	SPO	OL-B	MC	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	XH SA-53B CS SMLS Pipe	BEV	BEV	20'-0"	240.000	3
2	1	XH SA-53B CS SMLS Pipe	BEV	BEV	10'-3 1/16"	123.035	3

3	314-997-6600 phon BIMCAD@murphy-stl.c
3	1233 N. Price Rd. St. Louis, MO 63132-2

	BOM-	-STEEL-PLA	TE	
Item No	Size	Description	Qty	Area (sq ft)
S32	12.000 x 5.875	ASTM A36 CS Plate 1/2" Thick	2	0.645
S16	12.000 x 10.375	ASTM A36 CS Plate 1/2" Thick	2	1.084
S36	12.000 x 5.500	ASTM A36 CS Plate 1/2" Thick	2	0.609
S17	12.000 x 7.875	ASTM A36 CS Plate 1/2" Thick	2	0.840

DRN		DESCRIPTION	DESC	DATE	REV
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MURPHY V	NA N	¥	¥N.	¥	¥
٥	PWHT	HYDRO TEST	X-RAY	ASME	SPEC.
ATION	SPOOL IDENTIFICATION	SPOOL			
I'D TIG	BOLTS/CPLG'S/TH'D TIG	BOLTS			
LION	FITTING ORIENTATION	FITTIN			
ORIEN	FLANGE WEIGHT/ORIEN	FLANG	CEPT	QA/QC ACCEPT	ď
	1				

BUILDING				REV	C
ARCH IRB RISEF		210140_DISED_03	O-NISEN-OS	SHT/NO	_
SM RESE/	SERVICE NAME	21017	21012	⊕	<u>-</u>
Š 	SERVICE	i T			-03-09

DRN JMM	7/16/2021	MICH
CHK		
APP		
JOB NO. 2	210140	
		SERVICE NAM
REF.DWG.		21
DRAWING NO./TRACKING NO.	TRACKING NO.	8
210140	210140-RISER-03-09	2-09