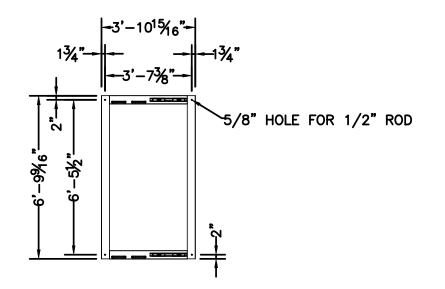
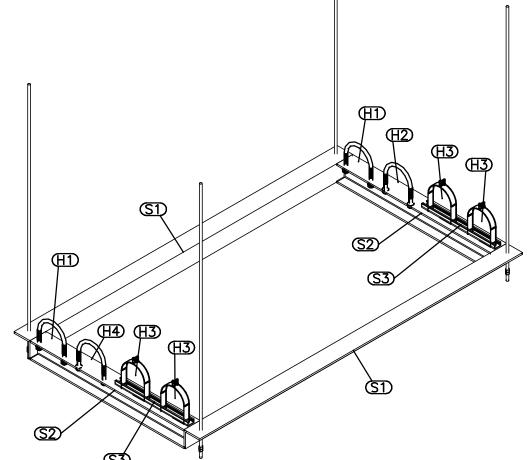


col	123 St. 314 BIM		s, 97-	rice MO	e Rd 6	l. 31	32-	-23	ostri 03	AL
]	Ī			T		АРР
FLANGE WEIGHT/ORIENTATION	ATION	H'D TIGHT	I CIE	NOLLA	COMMENTS		MURPHY WPS#	-		DRN CHK
3E WEIGHT	ITTING ORIENTATION	BOLTS/CPLG'S/TH'D TIGHT	YEITE	SPOOL IDENTIFICATION	T PWHT	ı	¥			
FLAN	FITTIN	BOLT		000	HYDRO TEST		¥			DESCRIPTION
CEPT					X-RAY	ı	¥			DESC
QA/QC ACCEPT					ASME		≨	-		DATE
/O	1				SPEC.		¥		0	REV
SNIC III a	ONII 7							REV	(ا 0
	_	NKB COP	PIPE RACKS					SHT/NO	4	1 of 2
M DE			_		SERVICE NAME			αīγ.	_	_
3/11/2021 WIISW DESEADED			40		SERVIC			KING NO.	0101 A 01010	4-0FL2-1F
DRN JMM	CHK	APP	OFFORE ON BOI	100 NO. 2101			REF.DWG.	DRAWING NO./TRACKING NO.	7 77 70 70	Z10140-F

z			 3'	-7 3	∕8" -	NOIL
" INSULATION	1'-3 ¹ %e"	<u>†</u> 1'−2¹%6" =	- 10			1½" INSULATION
Ţ	‡	1 -				
	41	¼ ₆ "–	10"-			-4¼" -10"



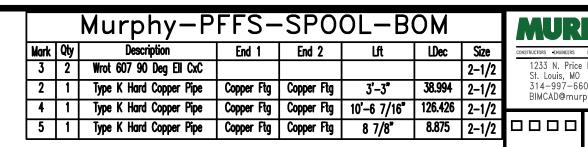


	SI
-3'-7 ³ / ₈ "	
1,-31%6" -1,-31%6" -1,-21%6" -1,-31%	HA H3
411/16"-1-10"	S2 S3

		BOM-STEEL						MUR	P	H	Y	7
Item No	Order	Description	Qty	Size	Steel	ŀ	CO	DINSTRUCTORS •ENGINEERS	MECH	IANICAL •	INDUSTRI	AL
H1	Fig137	Fig.137 U—Bolt (4)—Nut Black	2	5		Ī	1	1233 N. Price St. Louis, MO			2303	
H2	Fig137	Fig.137 U—Bolt (4)—Nut Black	1	5		Ī	1	314-997-66 BIMCAD@mur	300	phor	ie	
H3	929262	Klo-Shure Strut Clamp 1-1/2in Insul Cplg - Fiberglass_CTS	4	2-1/2		F	1	DIMOADETIM	PIII	J	,,,,,,	_
H4	Fig137	Fig.137 U—Bolt (4)—Nut Black	1	5		Ī	Þ					βb
S1	L4x4x3/8	ASTM A36 CS Equal Angle	2	L4x4x3/8	81 1,	1	1		۱,		ldash	Ĺ
S2	W4x13	ASTM A36 CS Wide Flange	2	W4x13	39'	1	₽	!	ű	_		뚥
S3	B52 GRN	1FT GREEN 12GA CHANNEL	2	1-5/8x13/16	18 1/	1	E	<u> </u>	SOMMENTS	#S#		2
			_			-	_		-			

DRN		DESCRIPTION	DES	DATE	REV C	2 OF 2 U	-	_A_01 L4_
_					•	, c		_ ^ _ [[] [] _ ^ _
	1		•			/00 ON 110	A	ACKING NO
MURPHY WPS	NA	¥	¥	¥	¥	LEVEL 02	5	
COMIN	PWHT	X-RAY HYDRO TEST PWHT	X-RAY	ASME	SPEC.	CIID I EVEL 02		
2	IDENTIFICAT	3000	•				SEBACE NAME	
2	NOIT A CIBITING OF ICOMS					PIPE RACKS	<u>=</u>	0140
TIGHT	BOLTS/CPLG'S/TH'D TIGHT	BOLTS				NKB COF		
NC	FITTING ORIENTATION	FITTIN						
RIEN TA	FLANGE WEIGHT/ORIENTA	FLANG	CEPT	QA/QC ACCEPT		SIN BESEARCH BIII DING	WIISM BEG	3/11/2021
1/:								

	7				-	-3'-	-73	% " –	-	
	INSULATION	-1,-313/6"	1,-215/6"							
,	Ţ	<u> </u>	Ť	- .	-	10,		<u>ነ</u> ር	<u> </u>	- T
am	t	•	4 ¹ / K	6 "→	10)"—	<u>, </u>	→	 	! - 4 ½ -10"



Mi	ırı	ohy-PFFS-Sh	in		96	, R	\mathbf{OM}
141	<u> </u>	311y 1 1 1 3 311	יף		<u> </u>	ַ ַ	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Wrot 601 No Stop Cplg CxC					2-1/2

	3/29/2021 WILCM	MICL		SECENDED BILL DING	SNIC	QA/QC /	QA/QC ACCEPT	FLANG	E WEIGHT/	FLANGE WEIGHT/ORIENTATION	z
				SEANCII BOIL				FITTING	FITTING ORIENTATION	NOIL	
			Z !	NKB COP				BOLTS/	BOLTS/CPLG'S/TH'D TIGHT	I'D TIGHT	
210140	140		₫	PIPE RACKS	_			SPOOL	SPOOL IDENTIFICATION	ATION	
			7445)		,	
		SERVICE N	Į	, L	ß	SPEC. ASME		X-RAY HYDRO TEST PWHT	PWHT	COMMENTS	ဖြ
			P	UPLZ-11-01				1		#oom Alogin	ı
			l			¥	\$	ž		MURLII WEST	
¥2./.0¥ 4	10./TRACKING NO.	2	¥.	SHT/NO	REV O						
401A	-0rL2-1r	0	_	I OF I	OREV	REV DATE	DES	DESCRIPTION		DRN CHK	_

CONSTRUCTORS • ENGINEERS MECHANICAL • INDUSTRIAL

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

SHIP LOOSE The state of the st	4
2 3	10°-846°

M	ur	phy-PFFS-Sh	ip l	_005	se	BO	MC
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Wrot 601 No Stop Cplg CxC					2-1/2

		Murphy-P	FFS-	·SP0	OL-B	ОМ	
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
3	2	Wrot 607 90 Deg Ell CxC					2-1/2
2	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	2'-5"	28.995	2-1/2
4	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	11'-2 7/16"	134.426	2-1/2
5	1	Type K Hard Copper Pipe	Copper Ftg	Copper Ftg	8 7/8°	8.875	2-1/2



CONSTRUCTORS - ENGINEERS MECHANICAL - INDUSTRIAL

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

e com	APP	DRN CHK APP		DESCRIPTION	DES	띧	DATE
-stl.c		MURPHY WPS#	NA MUF	N	NA	¥	≨
F 117		COMMENTS	PWHT	X-RAY HYDRO TEST	X-RAY	ASME	SPEC.
nur]	NOI	IDENTIFICA	SPOOL			
) TIGHT	BOLTS/CPLG'S/TH'D TIGHT	BOLTS/			
		NOI	ITTING ORIENTATION	FITTING			
		FLANGE WEIGHT/ORIENTATION	E WEIGHT/O	FLANGE	QA/QC ACCEPT	/QC AC	A

HIB 100SE	
THIP LOOSE TO SERVE	
(S) (S) (A) (A) (B) (A) (B) (A) (B) (A) (B) (A) (B) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	

N	lu	rphy-PFFS-Ship	Loc	se	E	30 N	1
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
\Box	1	Style 107N QuickVic EHP Pnt Rigid Cpl					3

		Murphy-PFFS	-SPOC)L-	-B01	M	
Mark	Qty		End 1	End 2	Lft	LDec	Size
4	2	Std Wt SA234 WPB CS BW LR 90 Deg Ell					3
5	1	Sch 40 SA-53B CS ERW Pipe GRV	Grooved Pipe End	BEV	12'-5 1/4"	149.277	3
2	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	1'-4"	15.996	3
6	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	3*	2.983	3



CONSTRUCTORS -EMBNERES MECHANICAL • INDUSTRIAL

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

MIN	ICM DECEAL	SNIC III a DOAP		QA/QC ACCEPT	CEPT	FLANG	E WEIGHT/	FLANGE WEIGHT/ORIENTATION	Z Z	
) 		CANCIL BOILDING				FITTIN	FITTING ORIENTATION	NOIT		St. 31 BIN
		n				BOLTS/	BOLTS/CPLG'S/TH'D TIGHT	'D TIGHT		Loui 4–9! ICAD
	PIPE	'E RACKS				SPOOL	SPOOL IDENTIFICATION	ATION		97-1
SERVICE NAME	NAME)				66
	. —	IDI 2-15-01	SPEC.	ASME	X-RAY	X-RAY HYDRO TEST PWHT	PWHT	COMMENTS	S	00
	5		¥	¥	¥	¥	¥N	MURPHY WPS#		pho
T 4	ĕ,	SHT/NO REV	0							-2303 ne com
11-03		lor I	REV DATE	DATE	DES	DESCRIPTION		DRN CHK APP	APP	

REF.DWG.
DRAWING NO./TRACKING NO.
210140-A-UPL2-1F-03

1'-8%	(5)	
SHIP LOOSE		
2	12'-9%	

N	1u	rphy-PFFS-Ship	Loc	se	E	30 N	1
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
1	1	Style 107N QuickVic EHP Pnt Rigid Cpl					3

			Murphy-PFFS	-SP	00L-	-BON	1	
N	lark	Qty		End 1	End 2	Lft	LDec	Size
Γ	4	2	Std Wt SA234 WPB CS BW LR 90 Deg Ell					3
	2	1	Sch 40 SA-53B CS ERW Pipe PE	Grooved End	BEV	6"	5.996	3
	6	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	BEV	3*	2.983	3
Г	5	1	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	11'-8 1/4"	140,277	3



CONSTRUCTORS -EMGINEERS MECHANICAL • INDUSTRIAL

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

RES	RESEARCH BUILDING	DING		QA/QC ACCEPT	CCEPT	FLANG	FLANGE WEIGHT/ORIENTATION	ORIENTA	NOI	
)				FITTIN	FITTING ORIENTATION	NOIT		
	70.07					BOLTS	BOLTS/CPLG'S/TH'D TIGHT	1'D TIGHT		
	PIPE KACKS					SPOOL	SPOOL IDENTIFICATION	ATION		
<u>-</u>	1101 2_15_01	<u></u>	SPEC.	ASME	X-RAY HYDRO TEST PWHT	HYDRO TEST	PWHT	COMIN	COMMENTS	
OFL	7 - 11 - 71	•	¥	ž	¥	ž	¥ X	MURPHY WPS#	_	
ır. s	SHT/NO	REV	5	 -				<u>-</u>	\mid	
1	1 or 1	0	REV	REV DATE	DESC	DESCRIPTION		DRN CHK APP	Ĭ,	γPP

WUSM

TRACKING NO. 1-A-UPL2-1F-04

	\$
SHIP LOOSE	
Tonger.	
	12'-076"
2	
(C)	