

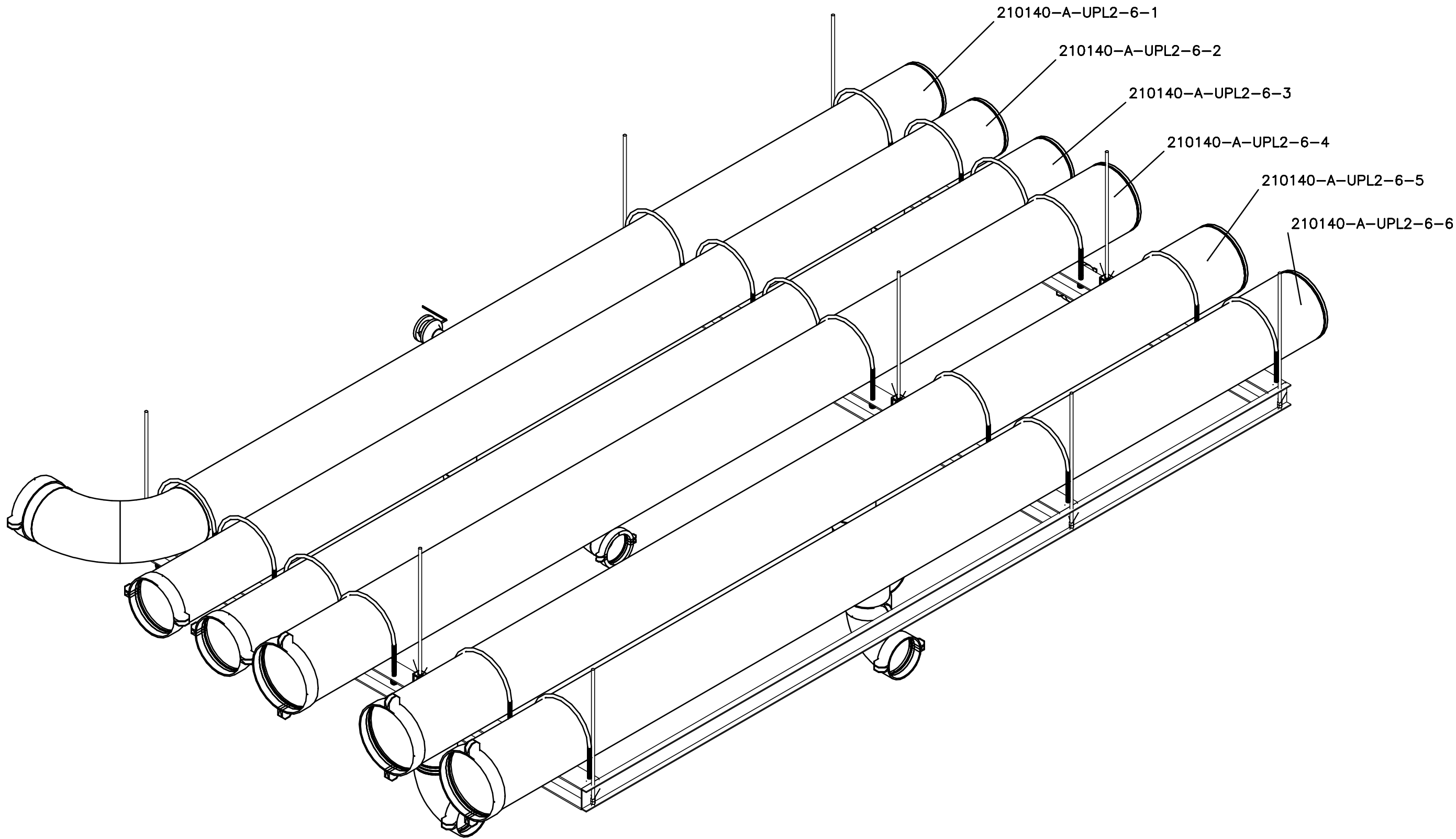
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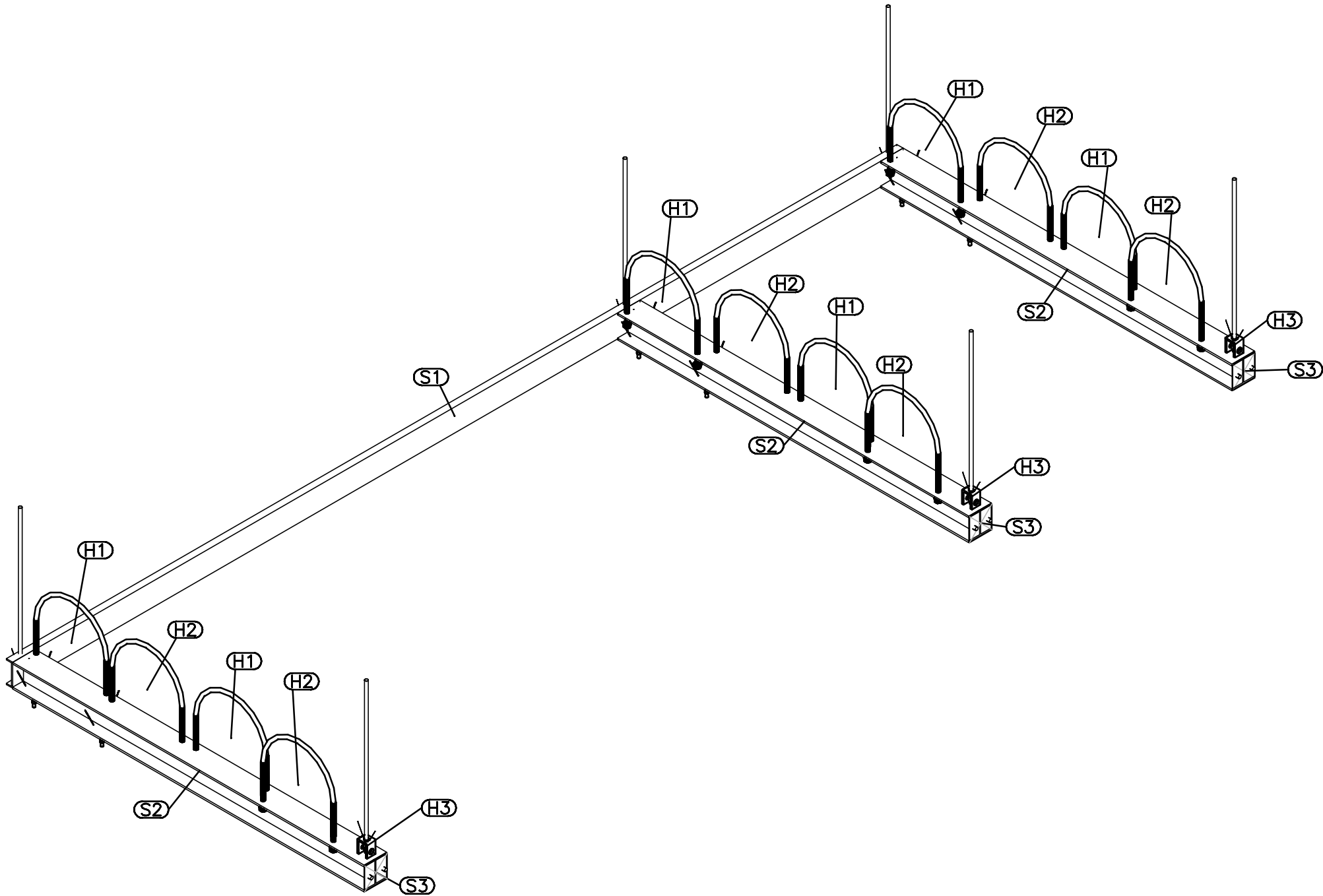
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CHK		NRB CUP				SPEC. NA		FITTING ORIENTATION		FITTING ORIENTATION		<input type="checkbox"/>
APP		PIPE RACKS						BOLTS/CPLG'S/TH'D TIGHT		BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>
JOB NO.	210140	SERVICE NAME CUP LEVEL 02				ASME		X-RAY		SPOOL IDENTIFICATION		<input type="checkbox"/>
REF.DWG.						NA		NA		NA		MURPHY WPS#
DRAWING NO./TRACKING NO. 210140-A-UPL2-6		QTY. 1	SHT/NO 1 of 6	REV 0	DESCRIPTION							
					DATE		DRN		CHK		APP	
					REV							



DRN JMM		4/19/2021	WUSM RESEARCH BUILDING				Q/A/QC ACCEPT				FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>				
CHK			NRB CUP								FITTING ORIENTATION				<input type="checkbox"/>				
APP			PIPE RACKS								BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>				
JOB NO.		210140									SPOOL IDENTIFICATION				<input type="checkbox"/>				
REF.DWG.			SERVICE NAME				CUP LEVEL 02				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
210140-A-UPL2-6			1		2 of 6		0												



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BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
479	3/4" Thd Rod		4		
H1	Fig137	Fig.137 U-Bolt (4)-Nut Black	6	24	
H2	Fig137	Fig.137 U-Bolt (4)-Nut Black	6	24	
H3	Fig66 No-Bolt - PLN	Fig.66 Weld Beam Attach without Bolt & Nut - BLK	3	1	
S1	C8x11.5	ASTM A36 CS C-Channel	1	C8x11.5	318"
S2	W8x40	ASTM A36 CS Wide Flange	3	W8x40	125 1/2"
S3		ASTM A36 CS Plate 1/4" Thick	3	1/4	8"x8"

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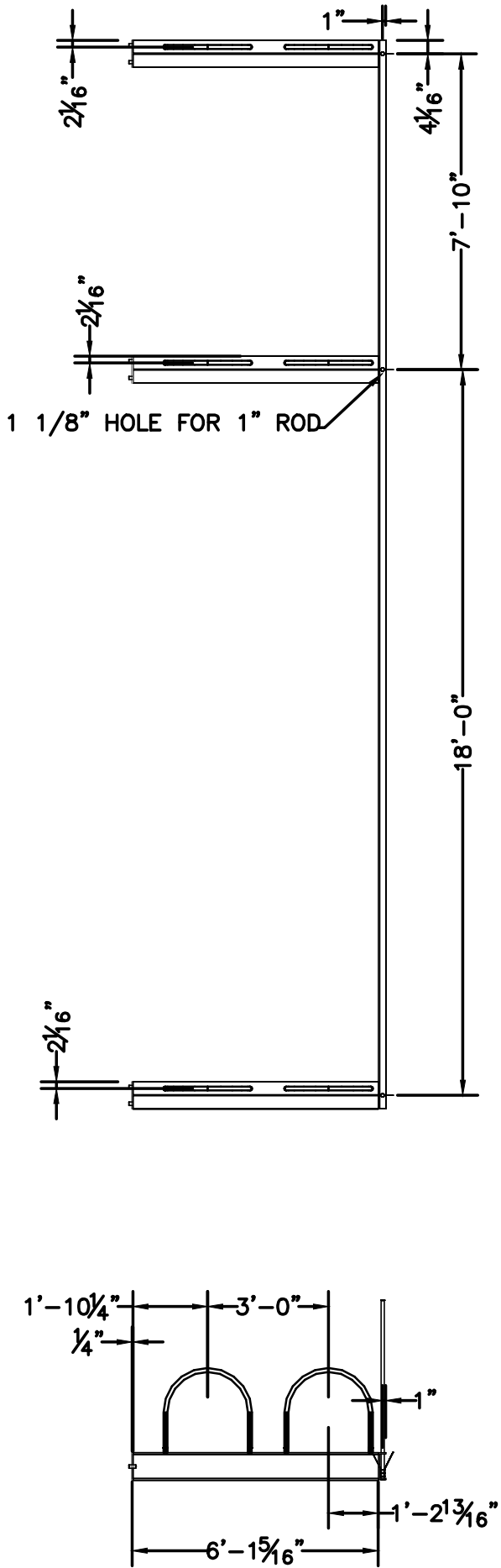
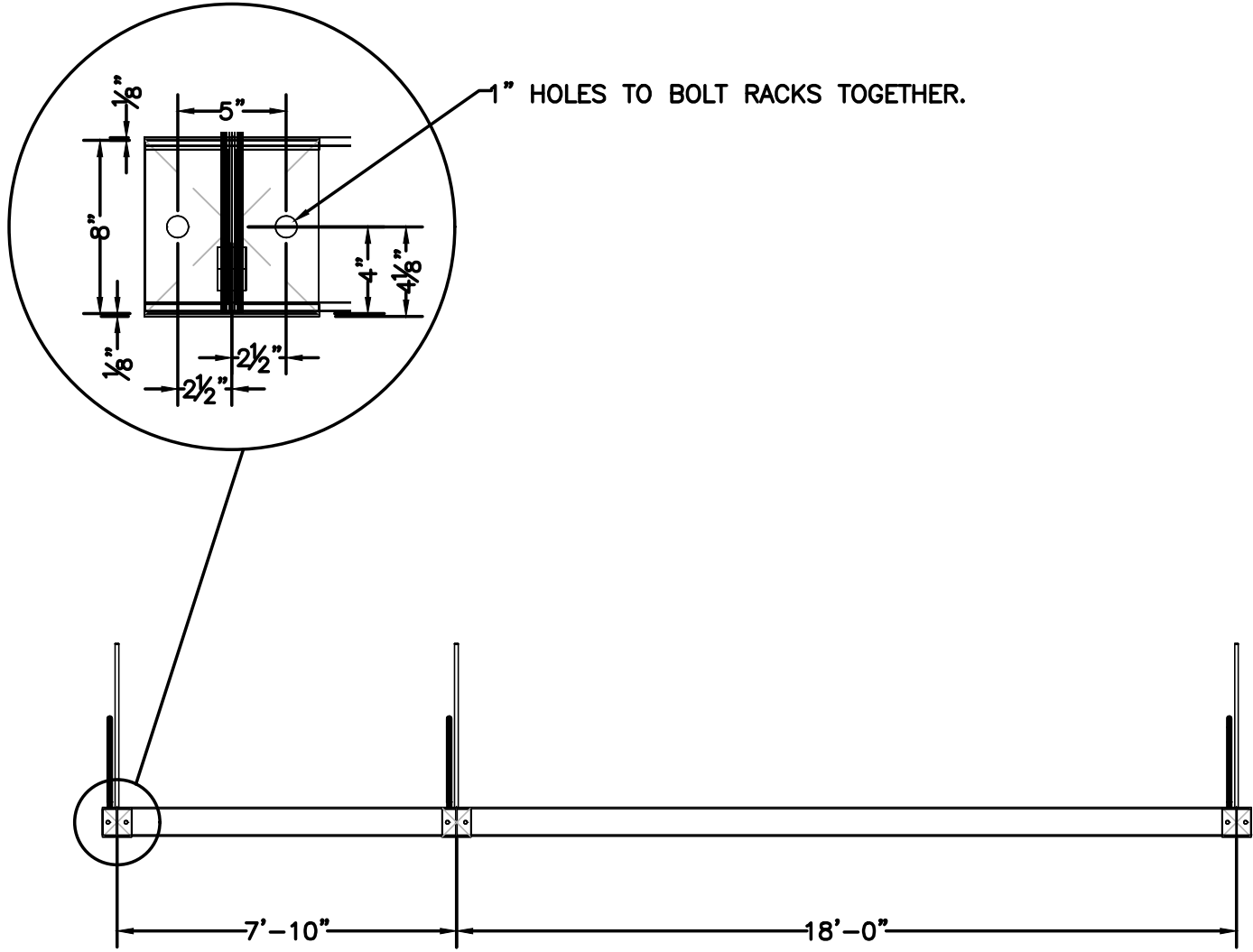
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<input type="checkbox"/>	FLANGE WEIGHT/ORIENTATION
<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

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

0	REV	DATE	DESCRIPTION	DRN	CHK	APP
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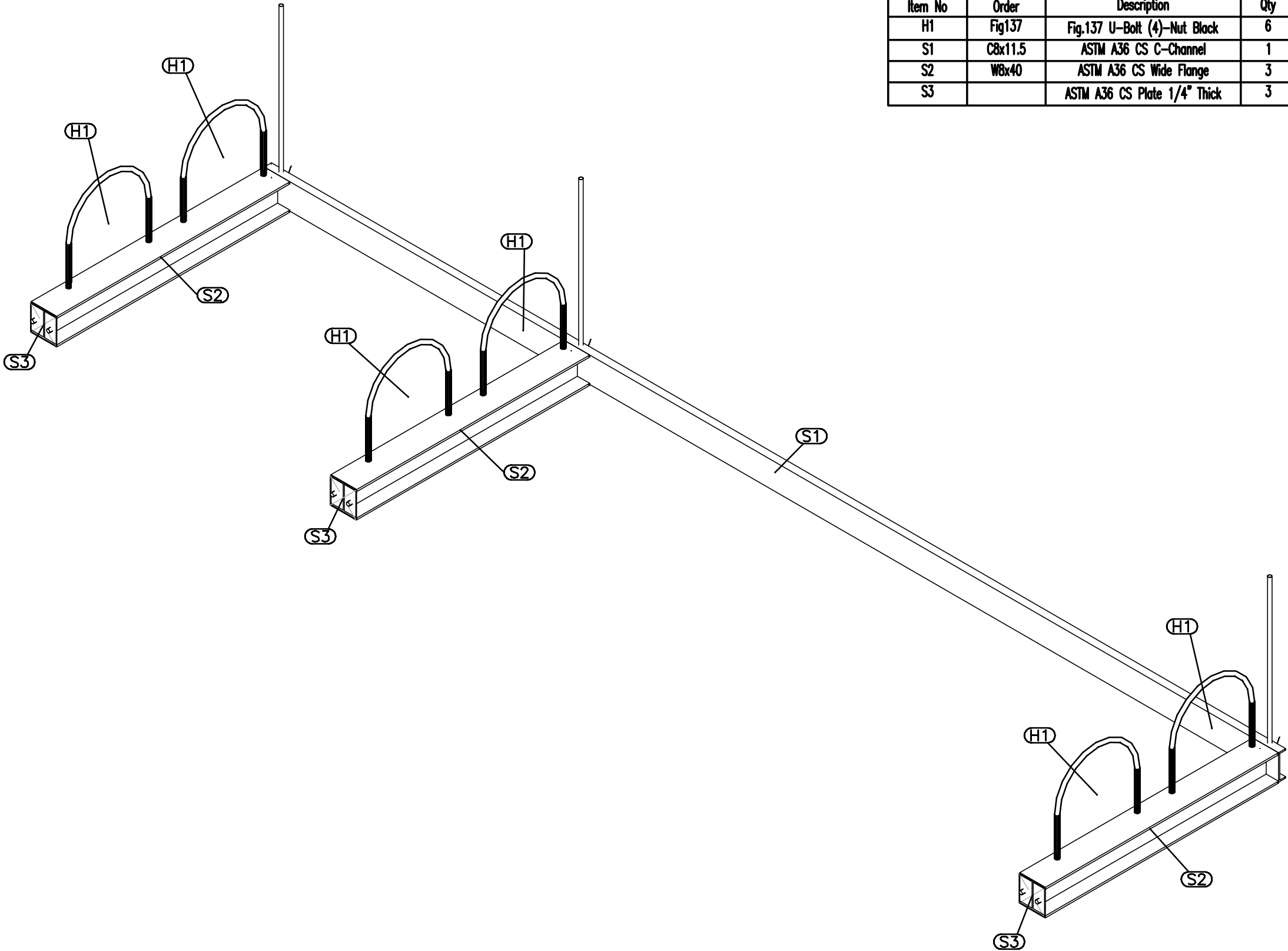
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CHK			NRB CUP
APP			PIPE RACKS
JOB NO.	210140	SERVICE NAME	CUP LEVEL 02
REF.DWG.		QTY.	1
DRAWING NO./TRACKING NO.	210140-A-UPL2-6	SHT/NO	4 of 6
		REV	0



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DRN	JMM	4/19/2021	WUSM RESEARCH BUILDING				QA/QC ACCEPT		FLANGE WEIGHT/ORIENTATION				<input type="checkbox"/>
CHK			NRB CUP						FITTING ORIENTATION				<input type="checkbox"/>
APP			PIPE RACKS						BOLTS/CPLG'S/TH'D TIGHT				<input type="checkbox"/>
JOB NO.	210140		SERVICE NAME						SPOOL IDENTIFICATION				<input type="checkbox"/>
REF.DWG.			CUP LEVEL 02				SPEC.	ASME	X-RAY	HYDRO TEST	PWHT	COMMENTS	
DRAWING NO./TRACKING NO. 210140-A-UPL2-6			QTY.	1	SHT/NO	5 of 6	NA	NA	NA	NA	NA	MURPHY WPS#	
			REV	0			0					DRN	CHK
			DATE		DESCRIPTION		REV	DATE					APP



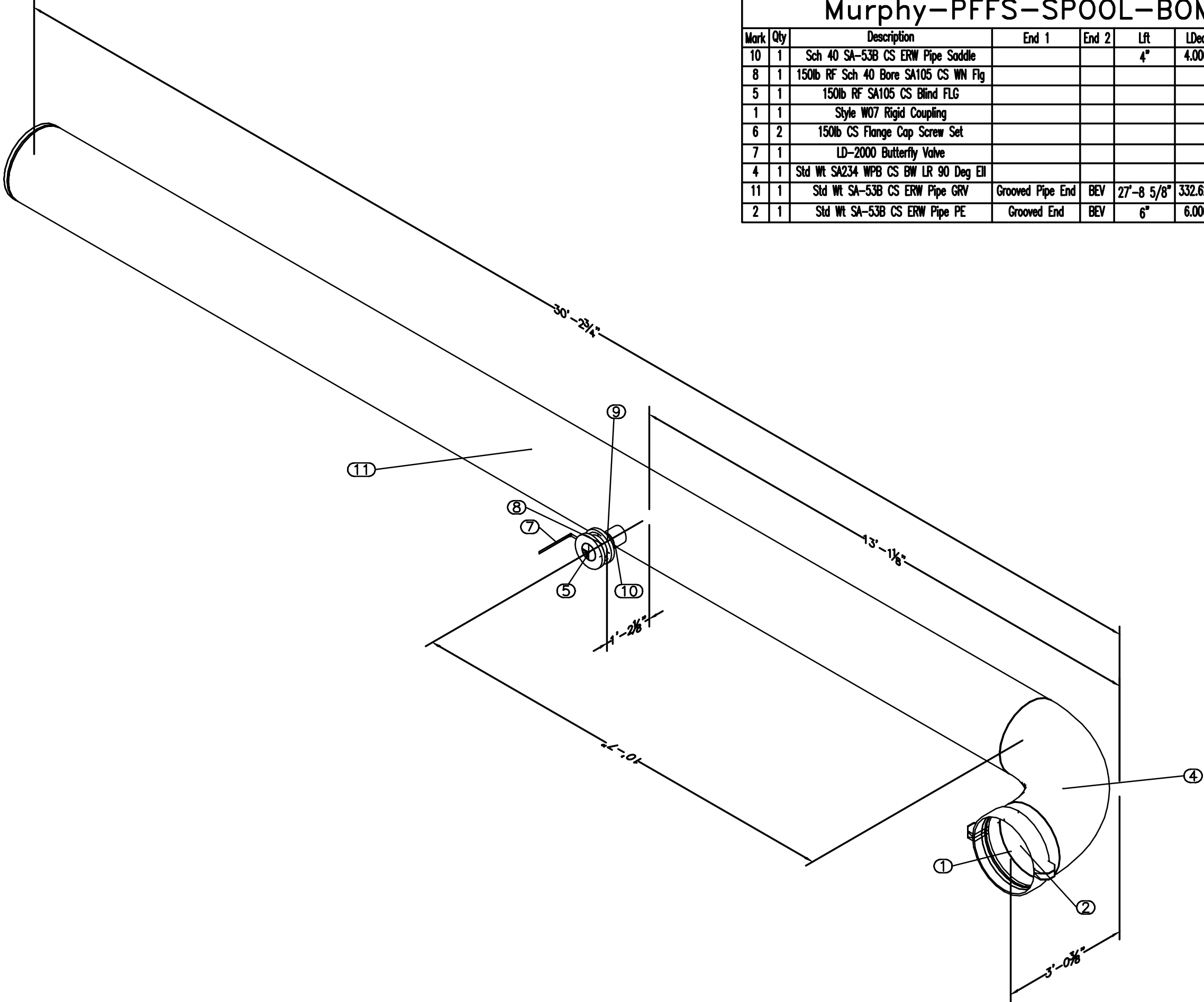
BOM-STEEL					
Item No	Order	Description	Qty	Size	Steel L
H1	Fig137	Fig.137 U-Bolt (4)-Nut Block	6	24	
S1	C8x11.5	ASTM A36 CS C-Channel	1	C8x11.5	318"
S2	W8x40	ASTM A36 CS Wide Flange	3	W8x40	73"
S3		ASTM A36 CS Plate 1/4" Thick	3	1/4	8"x8"

DRN JMM		4/19/2021		WUSM RESEARCH BUILDING				FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>	
CHK				NRB CUP				FITTING ORIENTATION		<input type="checkbox"/>	
APP				PIPE RACKS				BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>	
JOB NO. 210140				SERVICE NAME				SPOOL IDENTIFICATION		<input type="checkbox"/>	
REF.DWG.				CUP LEVEL 02				PWHT		COMMENTS	
DRAWING NO./TRACKING NO.				QTY. SHT/NO				HYDRO TEST		MURPHY WPS#	
210140-A-UPL2-6		1		6 of 6				NA		NA	
				REV				DATE		DRN	
				0						CHK	
										APP	

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# Murphy-PFFS-SP00L-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
10	1	Sch 40 SA-53B CS ERW Pipe Saddle			4"	4.000	20x4
8	1	150lb RF Sch 40 Bore SA105 CS WN Flg					4
5	1	150lb RF SA105 CS Blind FLG					4
1	1	Style W07 Rigid Coupling					20
6	2	150lb CS Flange Cap Screw Set					4 (5/8x1-3/4)
7	1	LD-2000 Butterfly Valve					4
4	1	Std Wt SA234 WPB CS BW LR 90 Deg El					20
11	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	BEV	27'-8 5/8"	332.625	20
2	1	Std Wt SA-53B CS ERW Pipe PE	Grooved End	BEV	6"	6.000	20

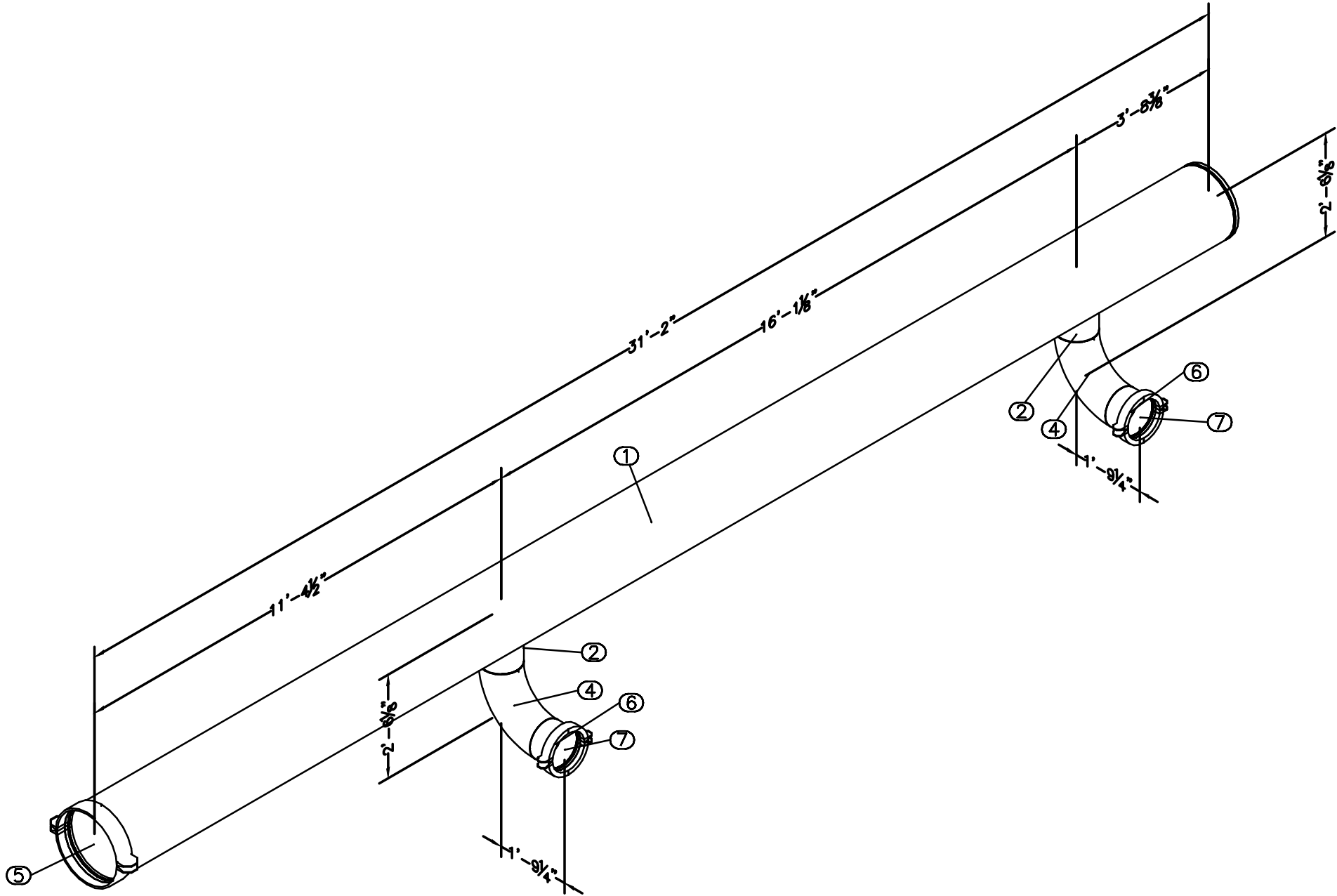
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QA/QC ACCEPT _____						<input type="checkbox"/> FLANGE WEIGHT/ORIENTATION <input type="checkbox"/> FITTING ORIENTATION <input type="checkbox"/> BOLTS/CPLG'S/TH'D TIGHT <input type="checkbox"/> SPOOL IDENTIFICATION							
SPEC.		ASME	X-RAY	HYDRO TEST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

DRN JMM	4/20/2021	WUSM RESEARCH BUILDING NRB CUP PIPE RACKS		
CHK				
APP				
JOB NO.	210140			
REF.DWG.		SERVICE NAME UPL2-6 RACK		
DRAWING NO./TRACKING NO. 210140-A-UPL2-6-1		QTY. 1	SHT/NO 1 of 1	REV 0





# Murphy-PFFS-SPOOL-BOM

Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	2	Sch 40 SA-53B CS ERW Pipe Saddle			5"	5.000	20x10
7	2	Style 07 Zero-Flex Cplg					10
5	1	Style W07 Rigid Coupling					20
4	2	Std Wt SA234 WPB CS BW LR 90 Deg El					10
6	2	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	6 1/8"	6.125	10
1	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	Grooved Pipe End	31'-2"	374.000	20

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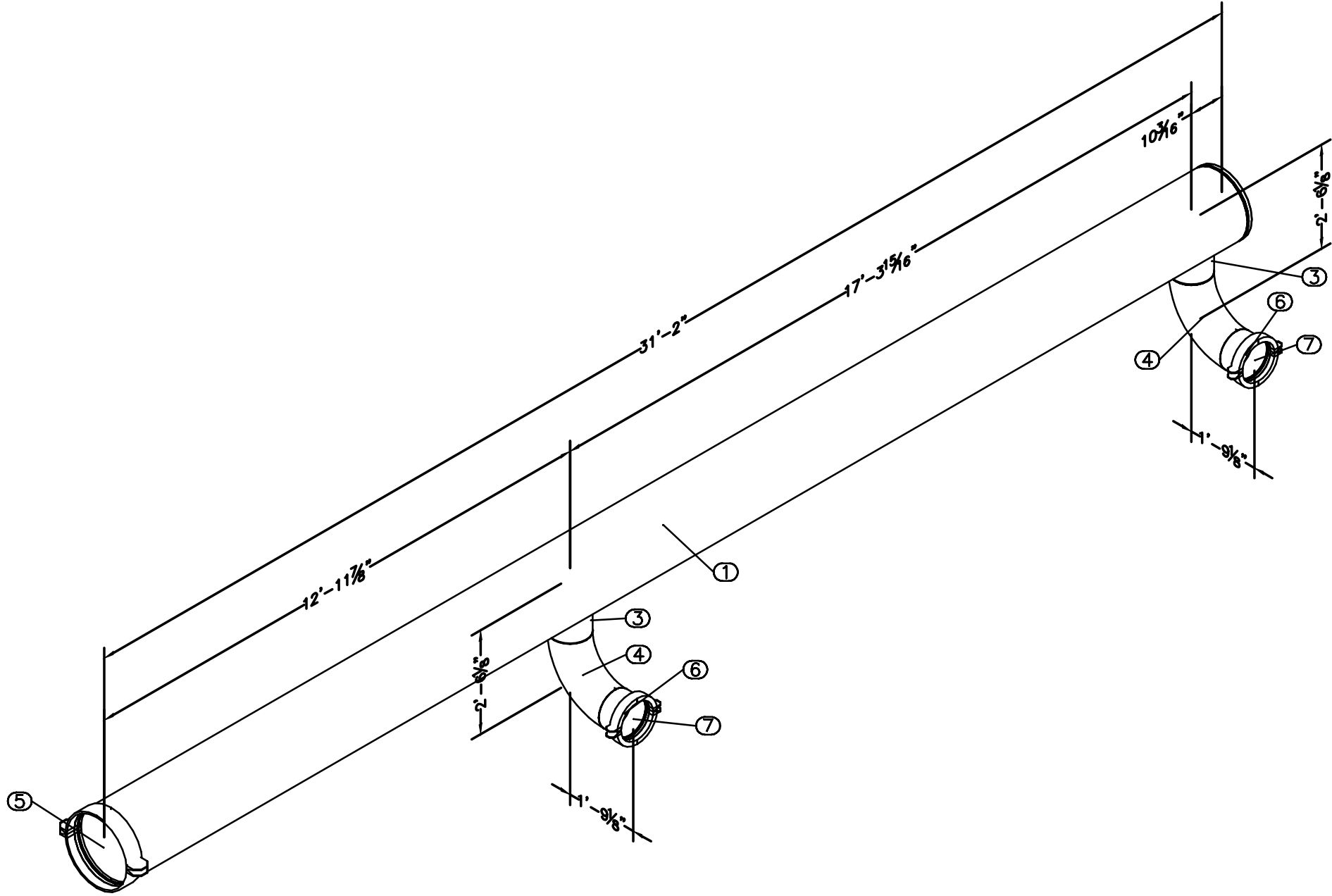
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<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

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

DRN JMM	4/20/2021	WUSM RESEARCH BUILDING			
CHK		NRB CUP			
APP		PIPE RACKS			
JOB NO.	210140	SERVICE NAME			
REF.DWG.		UPL2-6 RACK			
DRAWING NO./TRACKING NO.	210140-A-UPL2-6-2	QTY.	SHT/NO	REV	
		1	1 of 1	0	





Murphy-PFFS-SPOOL-BOM						
Mark	Qty	Description	End 1	End 2	Lft	Size
3	2	Sch 40 SA-53B CS ERW Pipe Saddle			5"	20x10
7	2	Style 07 Zero-Flex Cplg				10
5	1	Style W07 Rigid Coupling				20
4	2	Std Wt SA234 WPB CS BW LR 90 Deg El				10
6	2	Sch 40 SA-53B CS ERW Pipe PE	BEV	Grooved End	6"	10
1	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	Grooved Pipe End	31'-2"	20
					374.000	

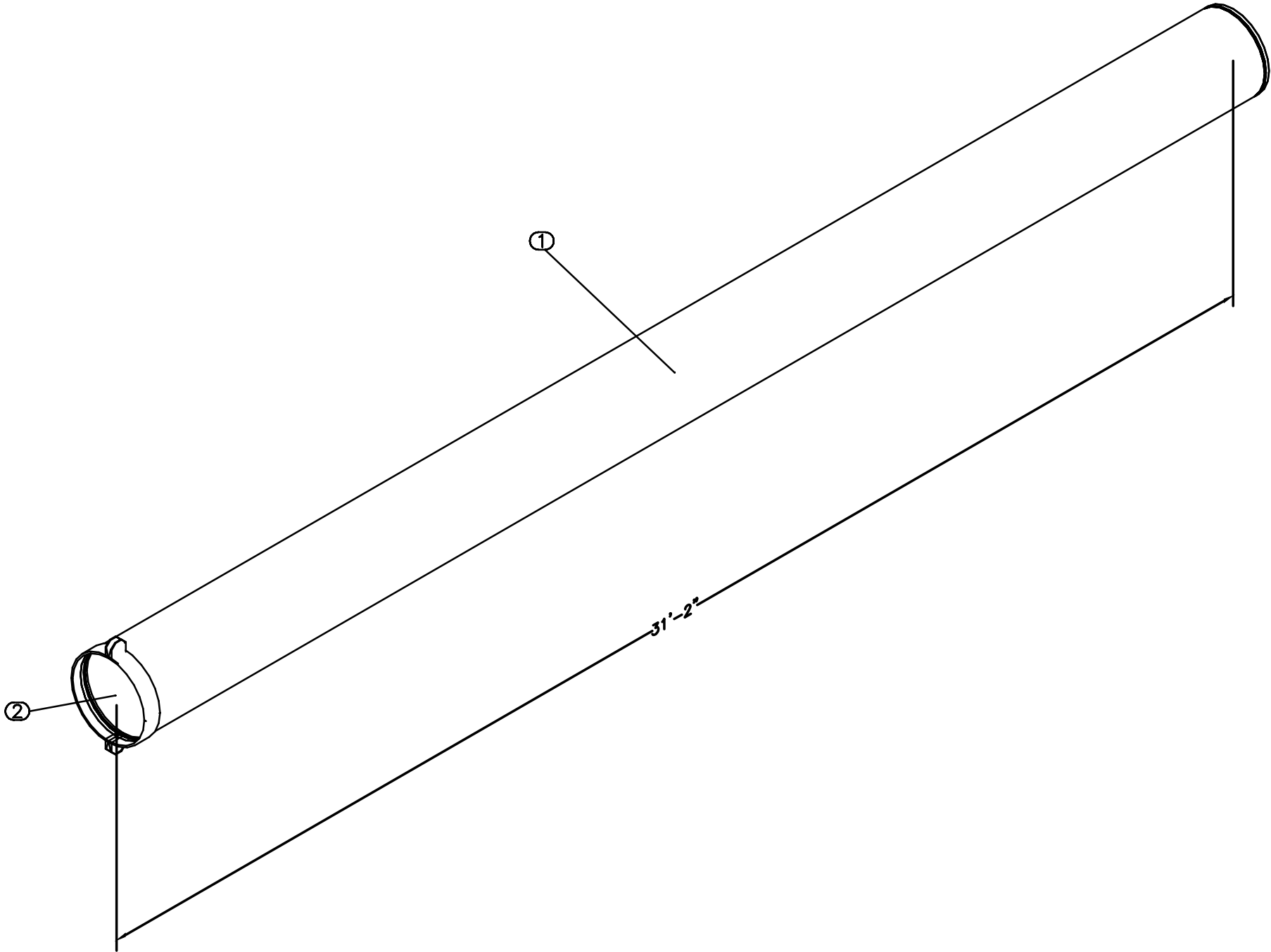
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<input type="checkbox"/>	FITTING ORIENTATION
<input type="checkbox"/>	BOLTS/CPLG'S/TH'D TIGHT
<input type="checkbox"/>	SPOOL IDENTIFICATION

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

DRN	JMM	4/20/2021	WUSM RESEARCH BUILDING		
CHK			NRB CUP		
APP			PIPE RACKS		
JOB NO.	210140	SERVICE NAME			
REF.DWG.		UPL2-6 RACK			
DRAWING NO./TRACKING NO.	210140-A-UPL2-6-3	QTY.	SHT/NO	REV	
		1	1 of 1	0	



Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	1	Style W07 Rigid Coupling					24
1	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	Grooved Pipe End	31'-2"	374.000	24

DRN JMM

4/20/2021

CHK

APP

JOB NO.

210140

REF.DWG.

DRAWING NO./TRACKING NO.

210140-A-UPL2-6-4

QTY.

1

SHT/NO

1 of 1

REV

0

WUSM RESEARCH BUILDING

NRB CUP

PIPE RACKS

SERVICE NAME

UPL2-6 RACK

FLANGE WEIGHT/ORIENTATION

☐

FITTING ORIENTATION

☐

BOLTS/CPLG'S/TH'D TIGHT

☐

SPOOL IDENTIFICATION

☐

QA/QC ACCEPT

SPEC.

NA

ASME

NA

X-RAY

NA

HYDRO TEST

NA

PWHT

NA

COMMENTS

MURPHY WPS#

REV

0

DATE

DESCRIPTION

DRN

CHK

APP

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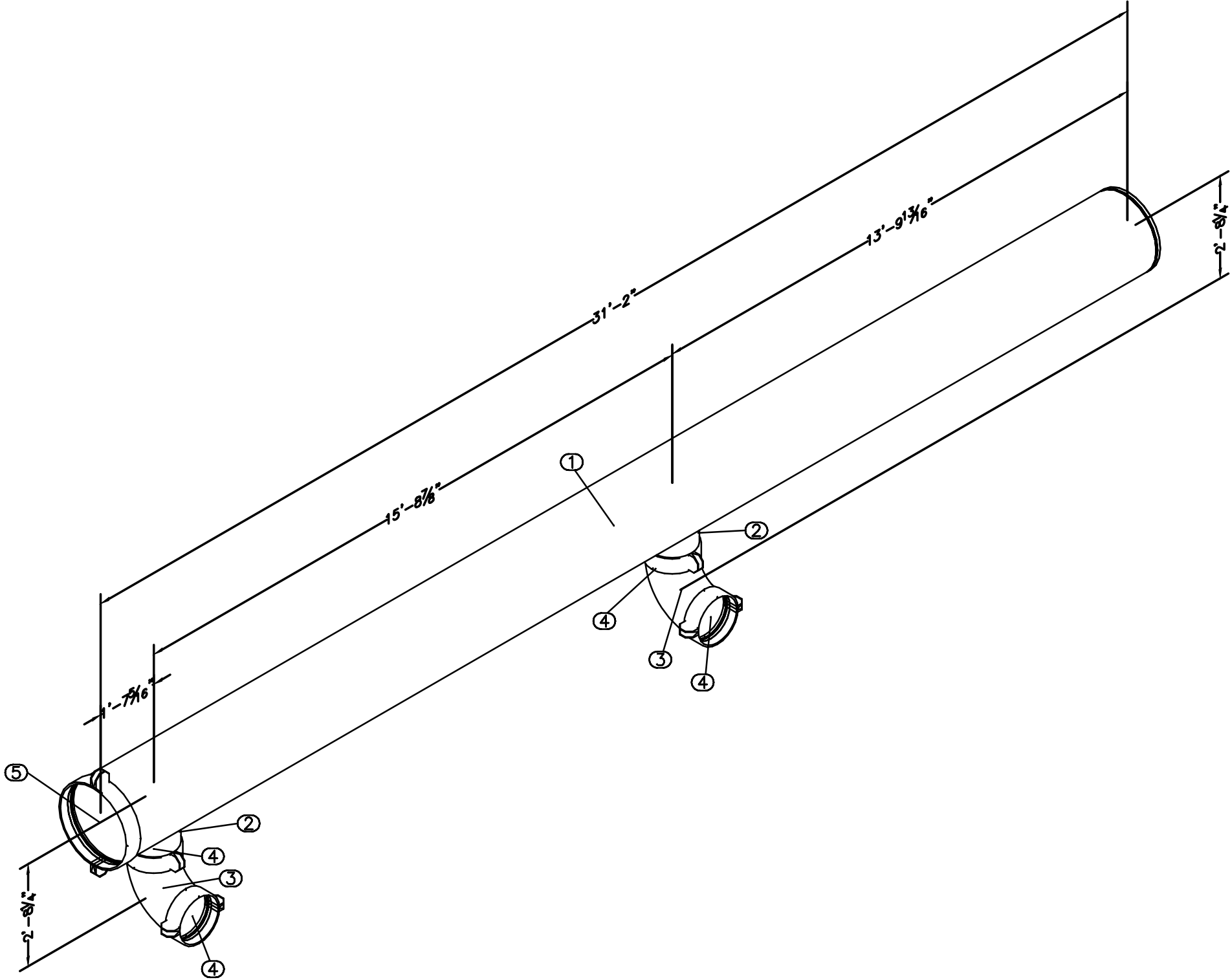
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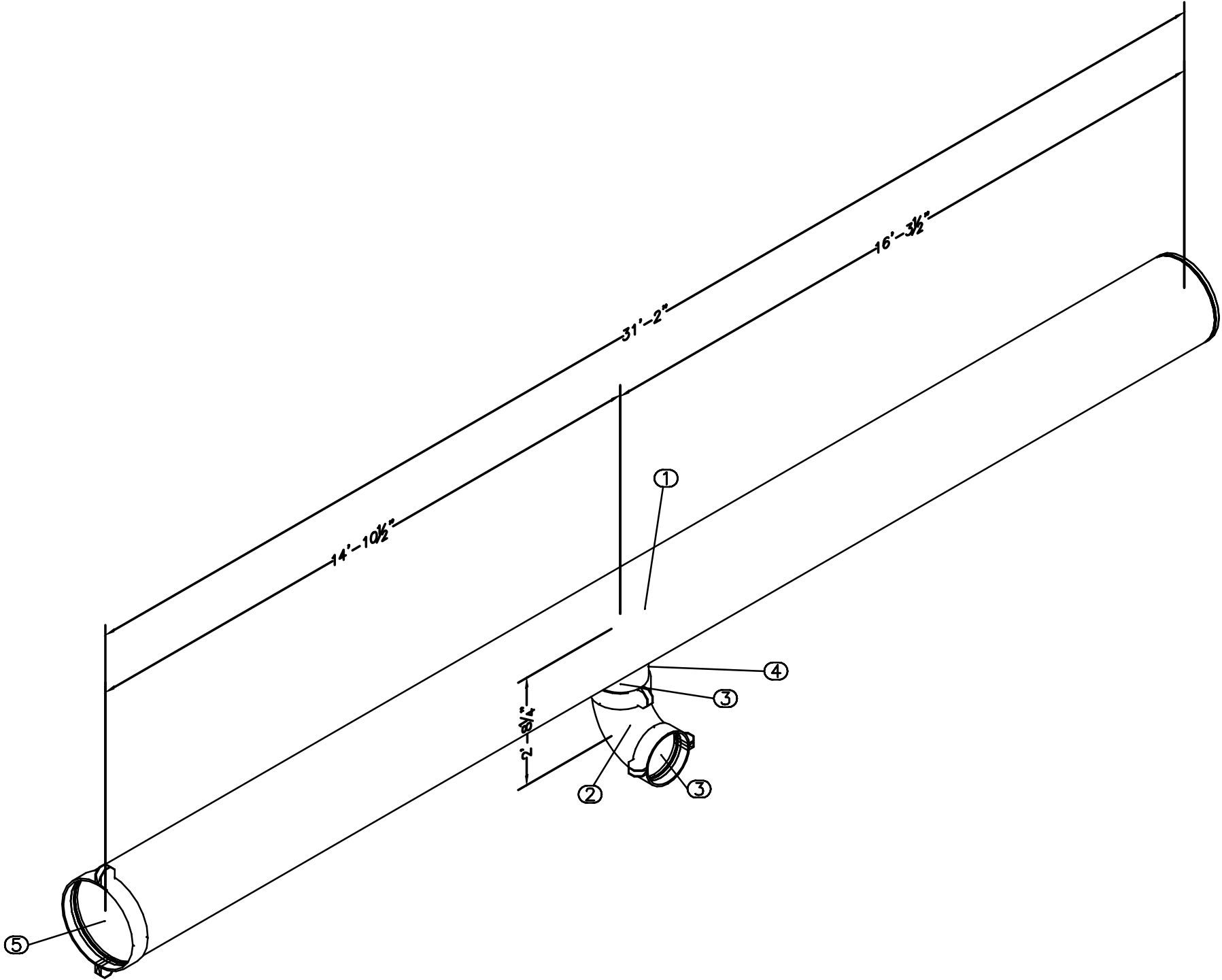


Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
2	2	Sch 40 SA-53B CS ERW Pipe Saddle			6"	6.000	24x14
4	4	Style W07 Rigid Coupling					14
5	1	Style W07 Rigid Coupling					24
3	2	No W10 90 Deg El					14
1	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	Grooved Pipe End	31'-2"	374.000	24

DRN JMM		4/20/2021		WUSM RESEARCH BUILDING				FLANGE WEIGHT/ORIENTATION		<input type="checkbox"/>	
CHK				NRB CUP				FITTING ORIENTATION		<input type="checkbox"/>	
APP				PIPE RACKS				BOLTS/CPLG'S/TH'D TIGHT		<input type="checkbox"/>	
JOB NO.		210140		SERVICE NAME				SPOOL IDENTIFICATION		<input type="checkbox"/>	
REF.DWG.				UPL2-6 RACK				HYDRO TEST		COMMENTS	
DRAWING NO./TRACKING NO.		210140-A-UPL2-6-5		QTY.		1		SHT/NO		1 of 1	
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								DATE		REV	
								ASME		NA	
								X-RAY		NA	
								PWHT		NA	
								MURPHY WPS#		MURPHY WPS#	
								DESCRIPTION		DRN	
								CHK		APP	

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Murphy-PFFS-SPOOL-BOM							
Mark	Qty	Description	End 1	End 2	Lft	LDec	Size
4	1	Sch 40 SA-53B CS ERW Pipe Saddle			6"	6.000	24x14
3	2	Style W07 Rigid Coupling					14
5	1	Style W07 Rigid Coupling					24
2	1	No W10 90 Deg El					14
1	1	Std Wt SA-53B CS ERW Pipe GRV	Grooved Pipe End	Grooved Pipe End	31'-2"	374.000	24

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<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
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DRN JMM	4/20/2021	WUSM RESEARCH BUILDING	
CHK		NRB CUP	
APP		PIPE RACKS	
JOB NO.	210140	SERVICE NAME	
REF.DWG.		UPL2-6 RACK	
DRAWING NO./TRACKING NO.	QTY.	SHT/NO	REV
210140-A-UPL2-6-6	1	1 of 1	0