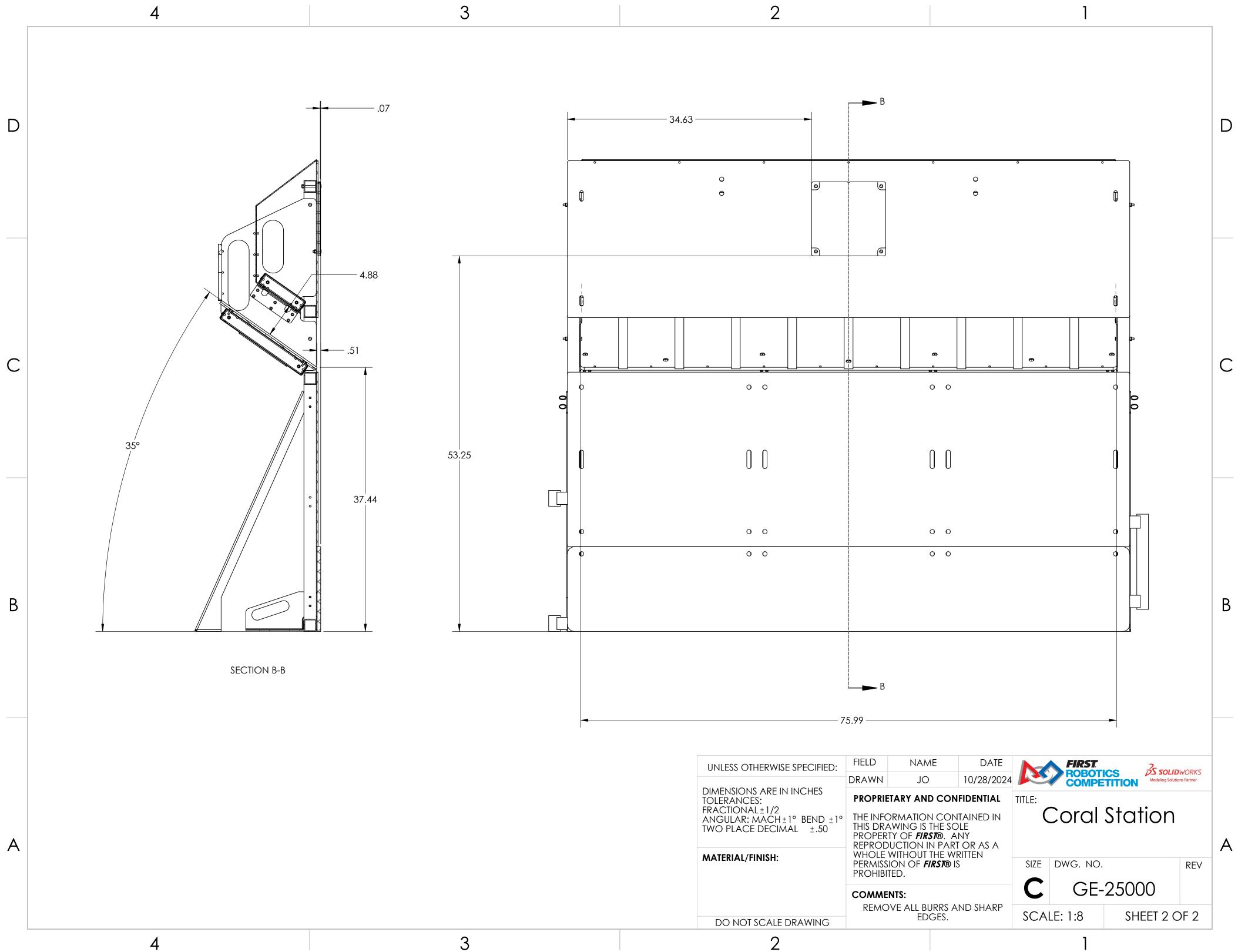
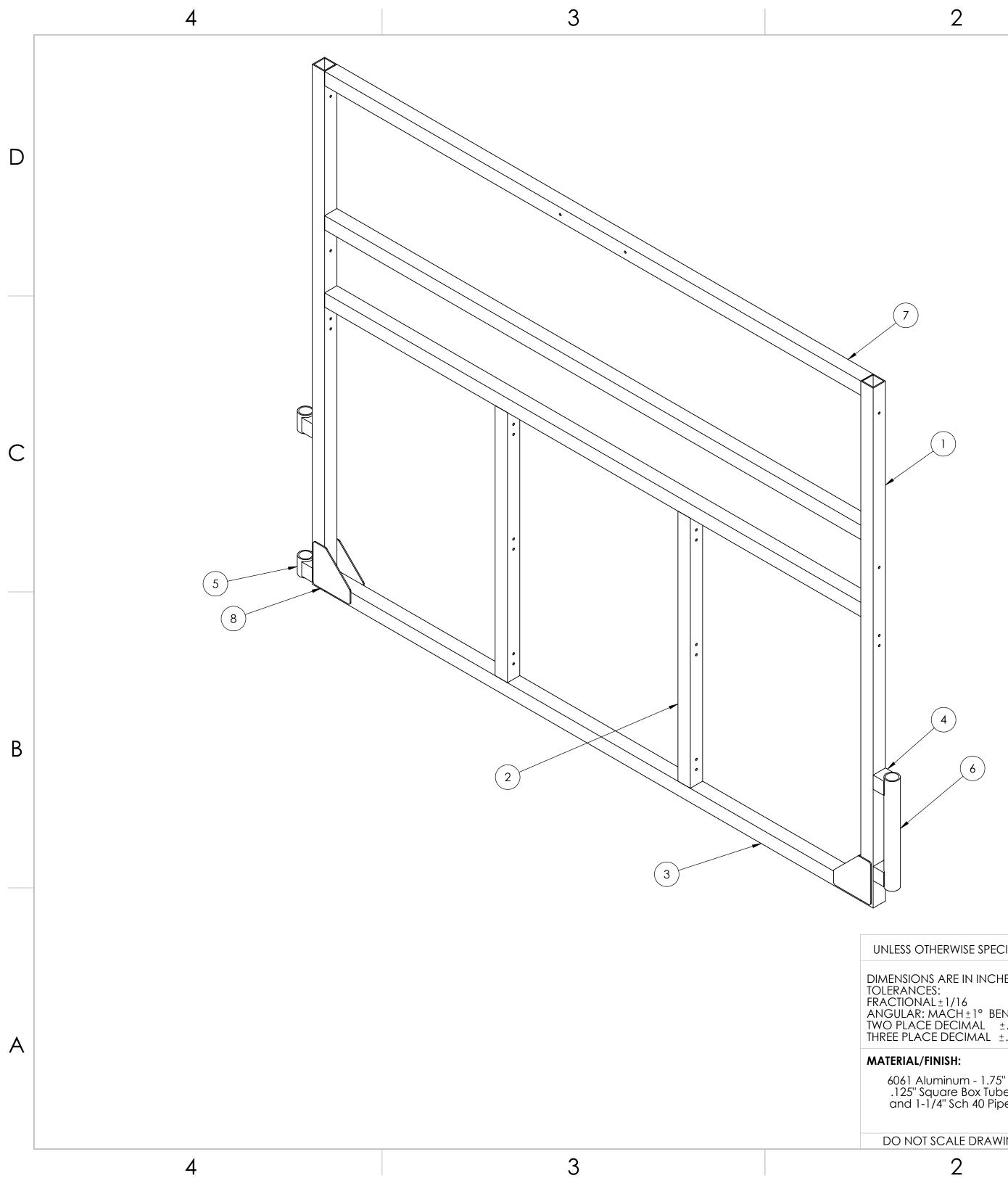


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		>	ITEM NO.	P/	ART NUM	1BER	D	DESCRIPTION	QTY.	
		ן	1	GE-2	25001			d Border Frame	1	-
		[2	GE-2	25002			eft Side Plate Assembly	1	
			3		25003			ght Side Plate Assembly	1	
		4	4		25007			Imper Plastic		
			5		25008 25009			ver Front Plastic	1	
			7		25010			Chute Ramp Assembly	1	
			8	GE-2	25015		(Chute Cover Assembly	1	
			9	GE-2	25019		Fran	ne Support Leg	2	
			10		25020			k Divider Plastic	1	B
			11	GE-2	25021		•	Cover Plastic	2	
			12		25022		Floo	r Support - 2025 Specific	1	
			13	FE-0	0083-ID2	2		AprilTag	1	-
			14	Cor	nfigurab	le Bolt		ong 1/4-20 Hex Head Bolt	10	
			15	Cor	nfigurabl	e Bolt		ong 1/4-20 Hex Head Bolt	6	
			16	nylo	ck25_	20	Lo	el Nylon-Insert cknut, 1/4''-20	8	
gram for more details.			17	9832	20A143		Rin	c-Plated Steel g-Grip Quick- Release Pin	8	
UNLESS OTHERWISE SPECIFIED:	FIELD	NAME	DA	ΓE		FIR	ST.	25		
DIMENSIONS ARE IN INCHES	DRAWN	JO	10/28/2	024			BOTI MPE	CS TITION Decling Solution		
TOLERANCES:	PROPRIE	TARY AND CO	ONFIDENTIA	L	TITLE:	_		<u></u>		
FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.50	THIS DRA PROPER REPROD	DRMATION CO AWING IS THE S TY OF FIRST®. DUCTION IN PA	SOLE ANY ART OR AS A		(Core	al	Station		A
MATERIAL/FINISH:		WITHOUT THE SION OF FIRST E TED.			SIZE	DWG.	NO.		REV	
	INITC ·				(F-	25000			
	COMME REMC	VE ALL BURRS		2P						
DO NOT SCALE DRAWING	SCALE: 1:10 SHEET 1 OF 2						л 2			
2							1			

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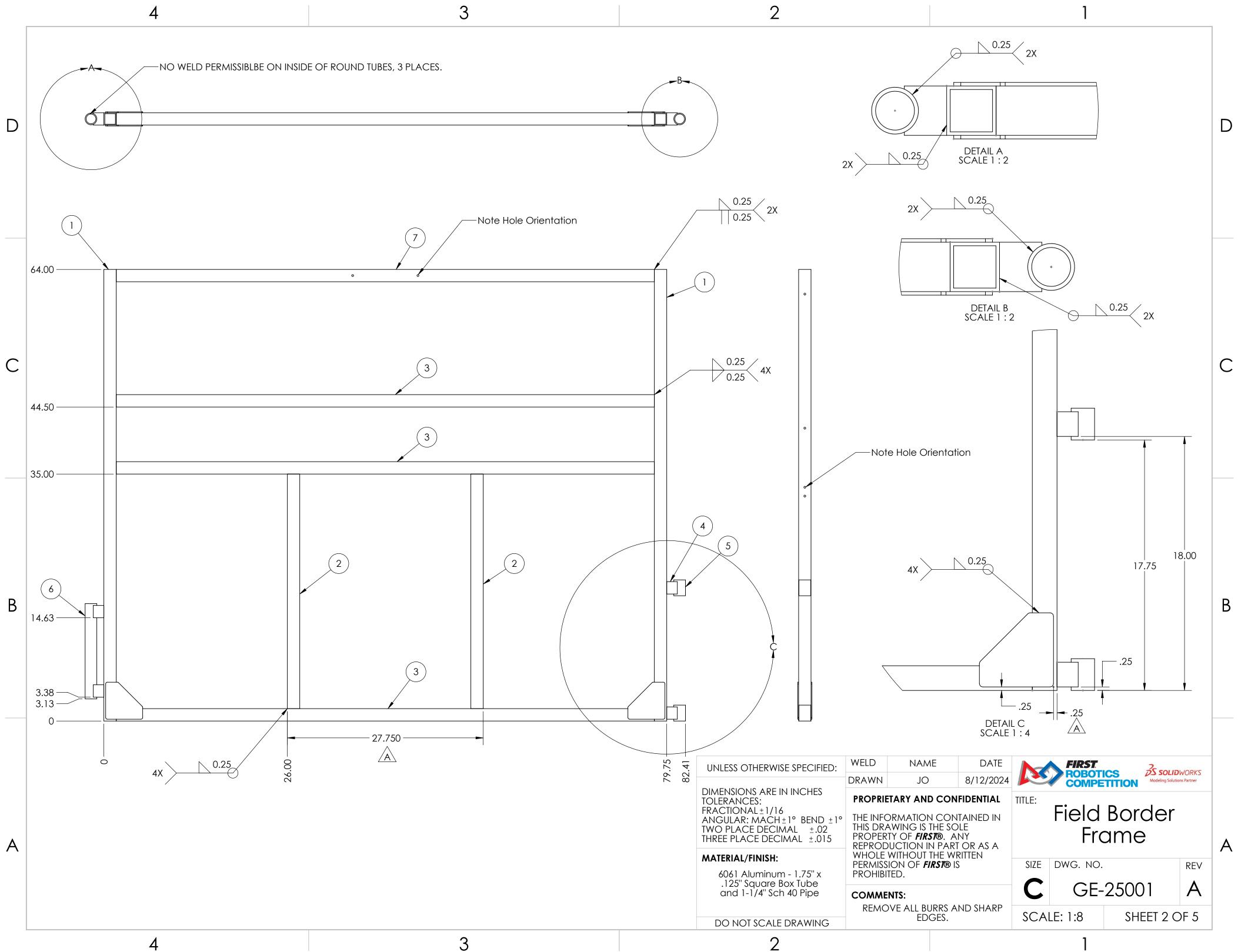
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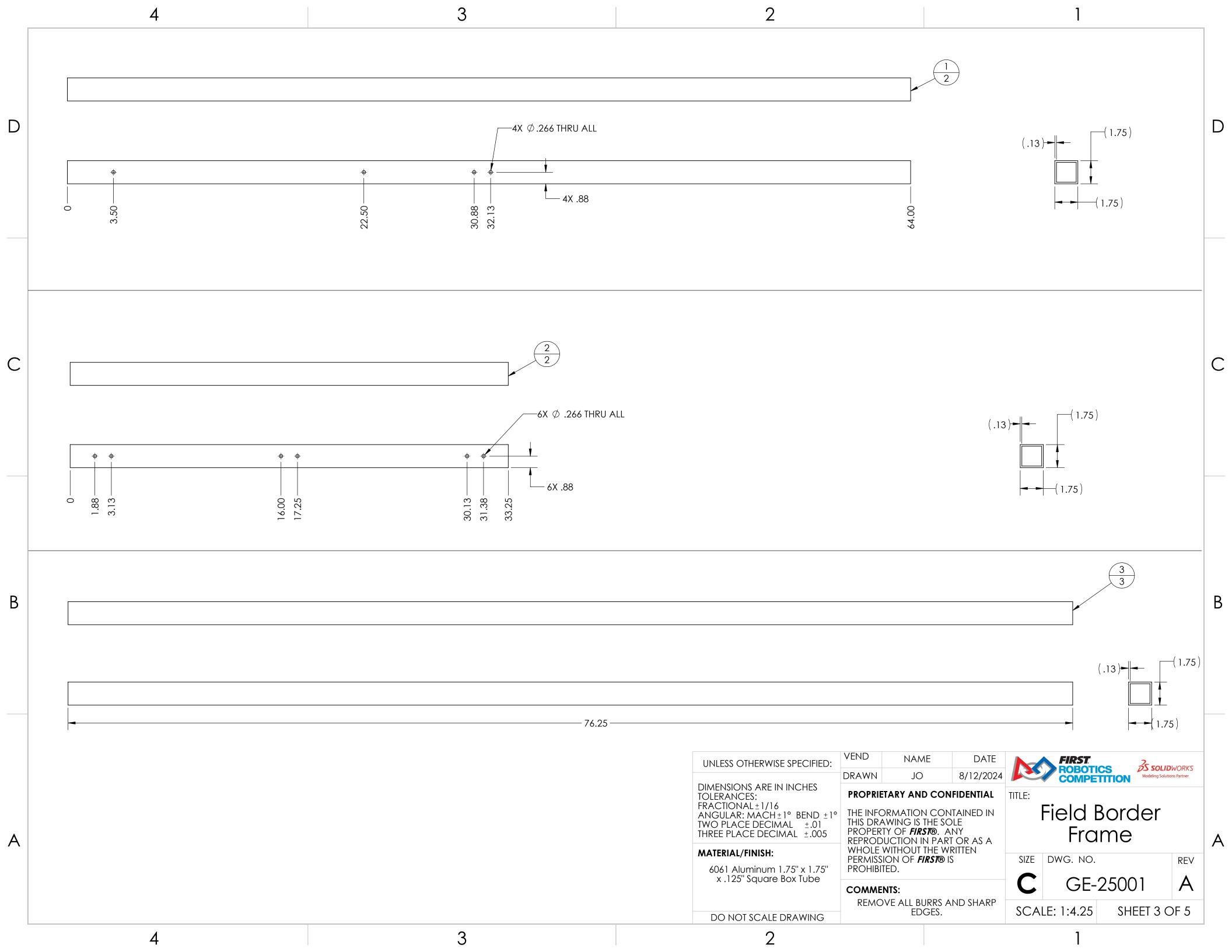
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
2-A1, 2- A3	A	Gusset moved off edge, Tube tolerance spacing updated	9/30/2024	OC

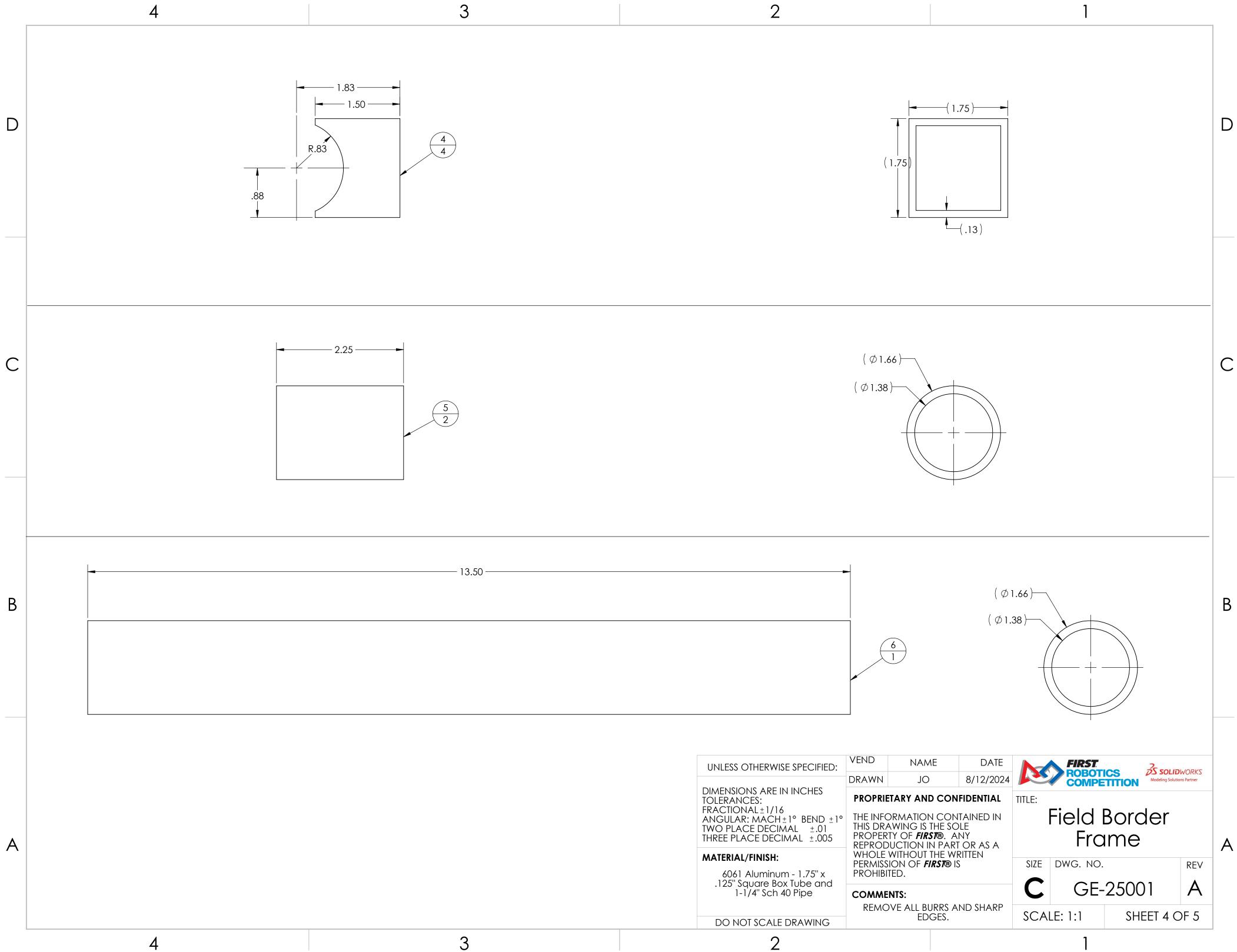
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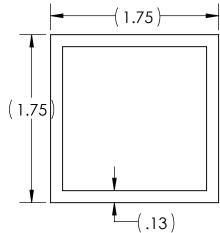
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	ITEM NO.	PART NUM	/ BER		DESCRIPTIO	N	QTY.	В	
6	1	GE-25001-01		Field Bord	der Frame Ou	uter Upright	2		
	2	GE-25001-02		Field Bord	der Frame In	ner Upright	2		
	3	GE-25001-03		Field Bc	order Frame I	Horizontal	3		
	4	GE-25001-04		Field B	order Frame Connector		4		
	5	GE-25001-05		Field Bord	der Frame Sh	ort Pin Shell	2		
	6	GE-25001-06		Field Bord	der Frame Lo	ng Pin Shell	1		
	7	GE-25001-07		Field Borc	ler Frame Top	o Horizontal	1		
	8	GE-25001-08		Field E	Border Frame	e Gusset	4	1	
SE SPECIFIED:	WELD NAME DATE								
	DRAWN	JO	8/12/20	24	ROBOTI COMPE		Solutions Partner		
IN INCHES	PROPRIE	TARY AND CON	FIDENTIAL	- TITLE:					
6 ±1° BEND ±1'		RMATION CON		1	Field	Borde	r		
MAL ±.02	THIS DRA	WING IS THE SO TY OF FIRST® . AI	νLE		Frame				
IMAL 1.013	REPROD	UCTION IN PART	or as a					A	
	PERMISSI	without the wr Ion of First ® Is		SIZE	DWG. NO.		REV		
n - 1.75" x Box Tube	PROHIBIT	ED.				$\Omega = \Omega \cap \Omega$			
h 40 Pipe	COMME				GE-	25001			
	REMO	VE ALL BURRS A EDGES.	SHEET 1	1 OF 5					
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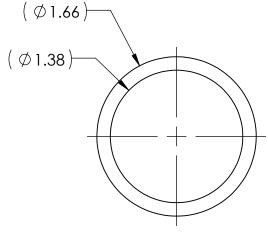


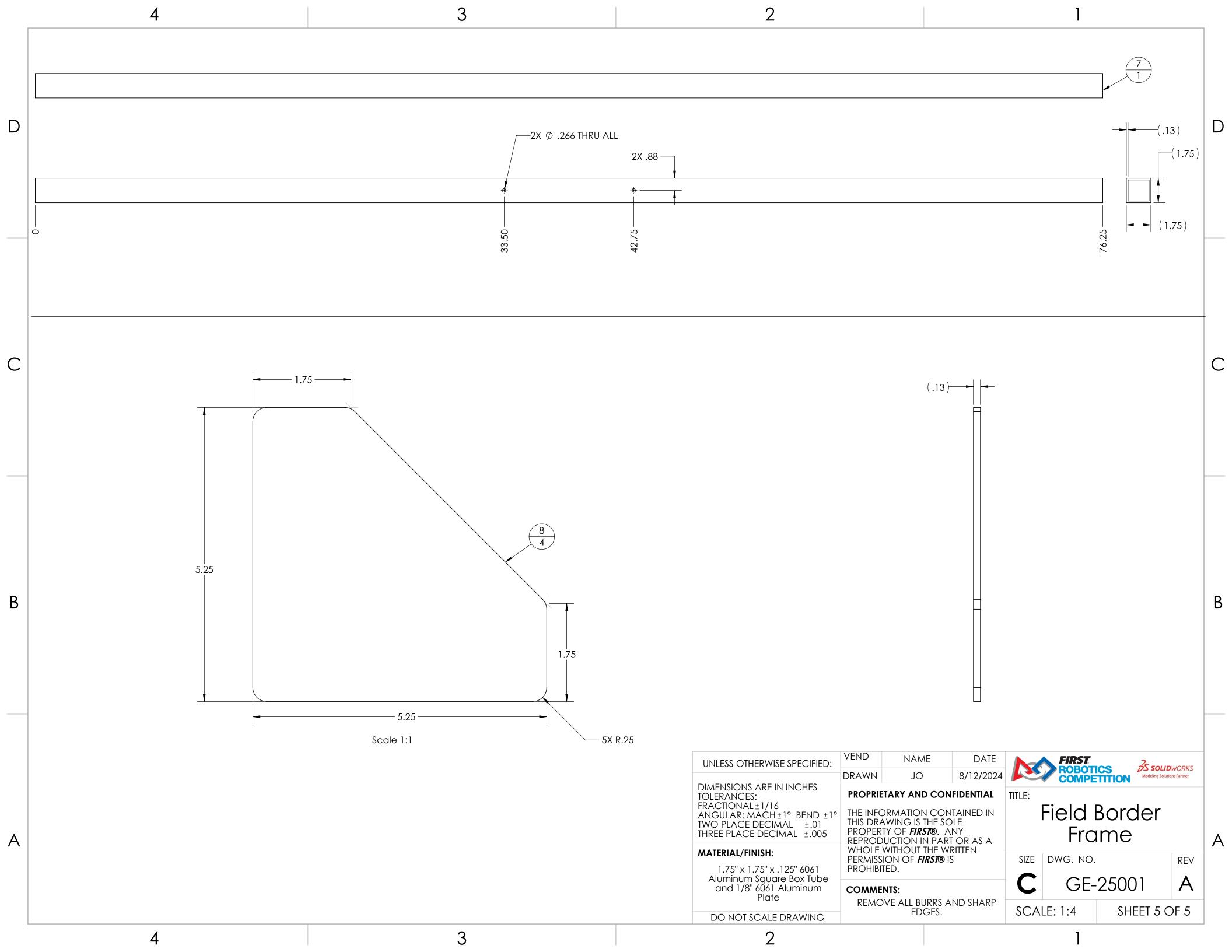


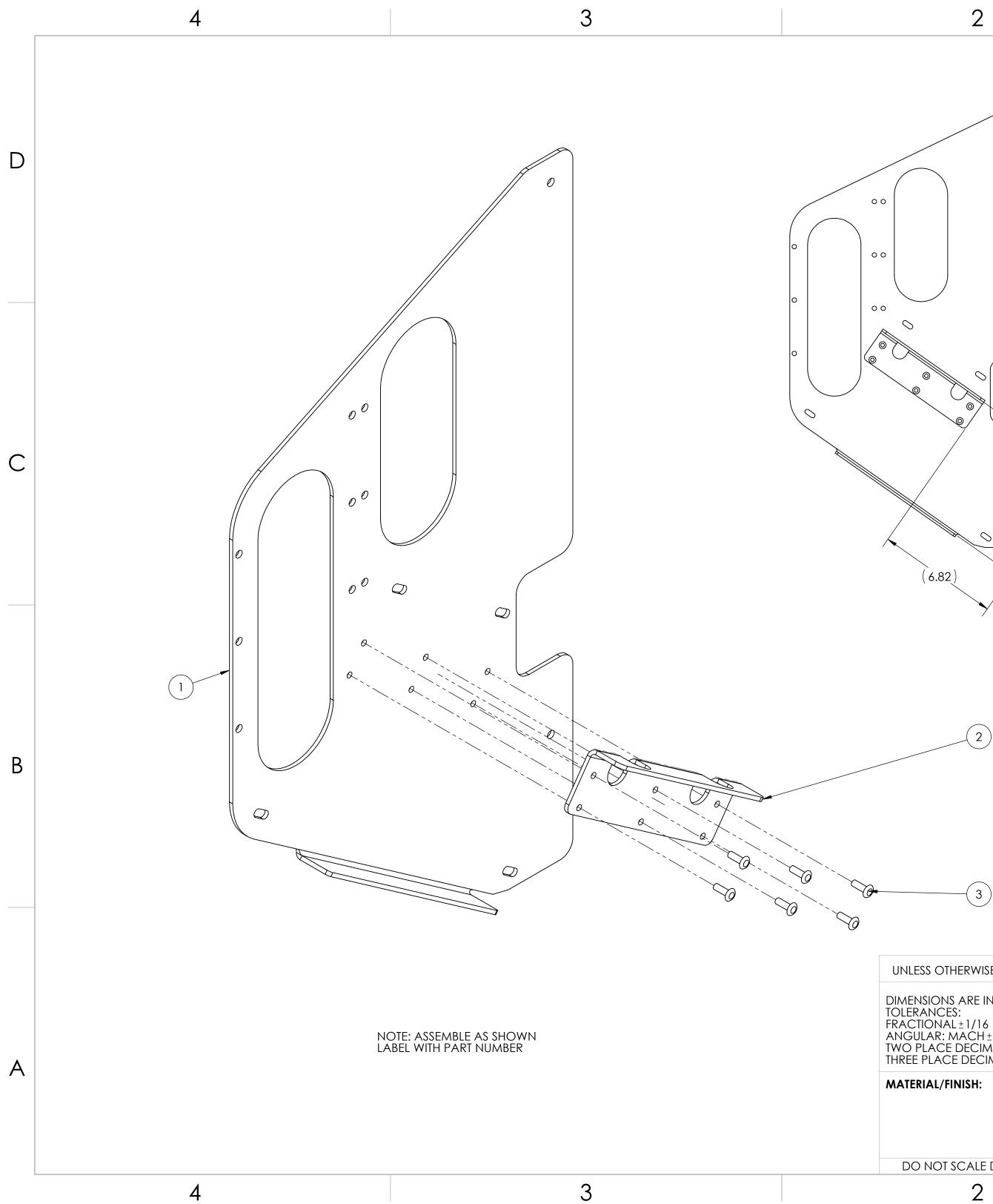












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o (6.82) (7.00)	

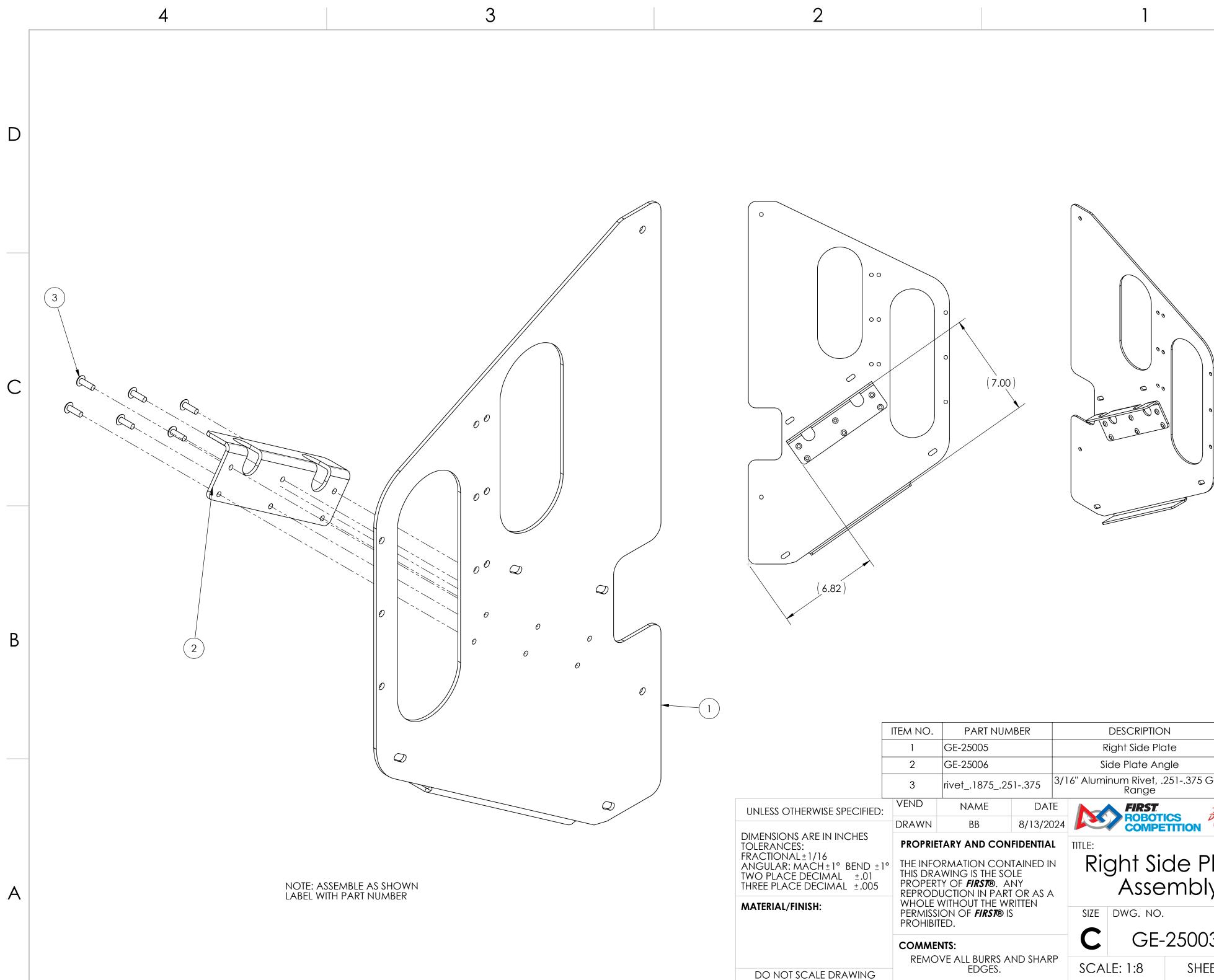
	ITEM NO.	PART NUM	ABER			DESCRIPTIO	N		QTY.
(3)	1 GE-25004			Left Side Plate			1		
	2	GE-25006			Sic	de Plate Ar	igle		1
	3	rivet1875251375		3/16" Al	umir	num Rivet, . Range	251375	Grip	6
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT	E		FIRST.		S SOLIE	
	DRAWN	DRAWN BB 8/13/2024				ROBOT		Modeling Soluti	
DIMENSIONS ARE IN INCHES TOLERANCES:	PROPRIE	TARY AND CON	FIDENTIA	L TITLE	•				
FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005	this drawing is the sole property of first ®. Any								•
MATERIAL/FINISH:	WHOLE PERMISS	REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.					WG. NO.		REV
	COMME	NTS:				GE-	2500)2	
do not scale drawing	REMO	REMOVE ALL BURRS AND SHA EDGES.			SCALE: 1:8 S		SH	HEET 1 OF 1	

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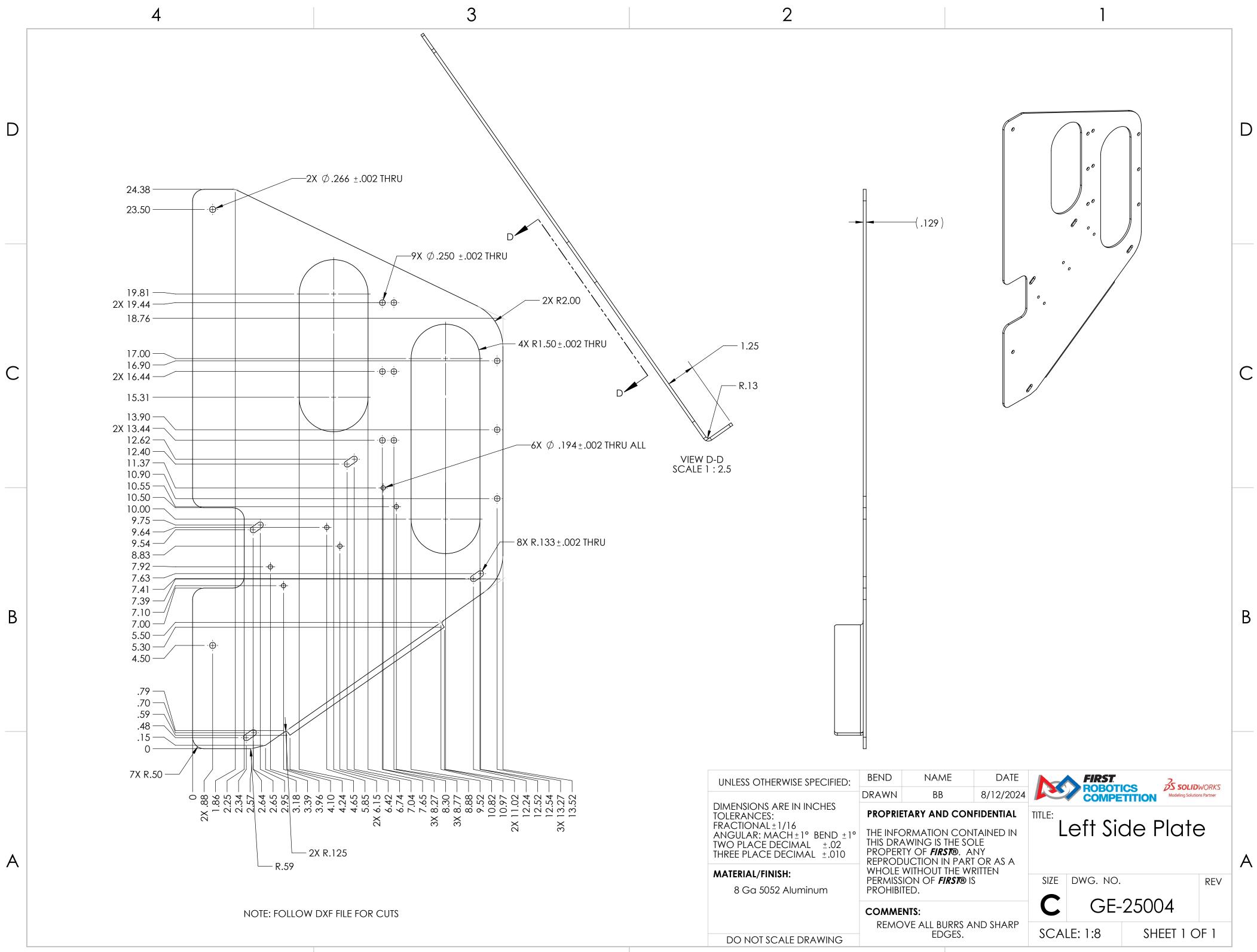
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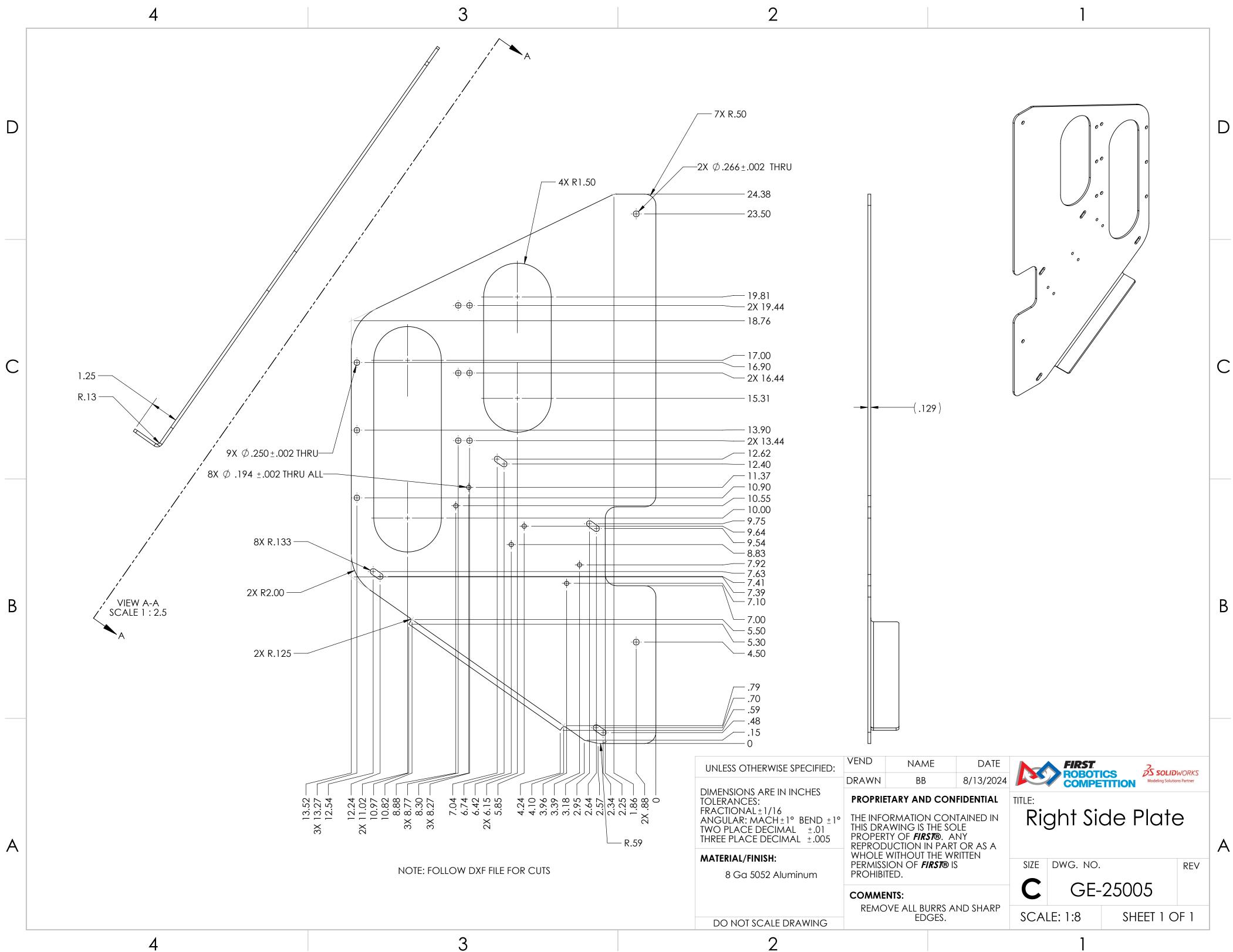
	ITEM NO.	PART NUM	ABER			DESCRIPTION	N	QTY.	
	1	GE-25005			F	Right Side Plo	ite	1	
	2	GE-25006			Si	ide Plate Ang	gle	1	
	3	rivet187525	51375	3/1	3/16" Aluminum Rivet, .251375 Grip Range			6	
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT	ΓE		FIRST	3	SOLIDWORKS	
	DRAWN	DRAWN BB		024		ROBOTI COMPE		SOLIDWORKS	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFC THIS DRA PROPER REPROD	ETARY AND CON DRMATION CON AWING IS THE SO ITY OF <i>FIRST</i> ®. A DUCTION IN PART	ITAINED II DLE INY T OR AS A	Right Side Plate					A
MATERIAL/FINISH:	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS			-	SIZE	DWG. NO.		REV	
					С	GE-	25003		
		OVE ALL BURRS A	ND SHAF	۲P		- 1 0			
DO NOT SCALE DRAWING	-	EDGES.			SCALE: 1:8 SHEET 1 (IOFI	
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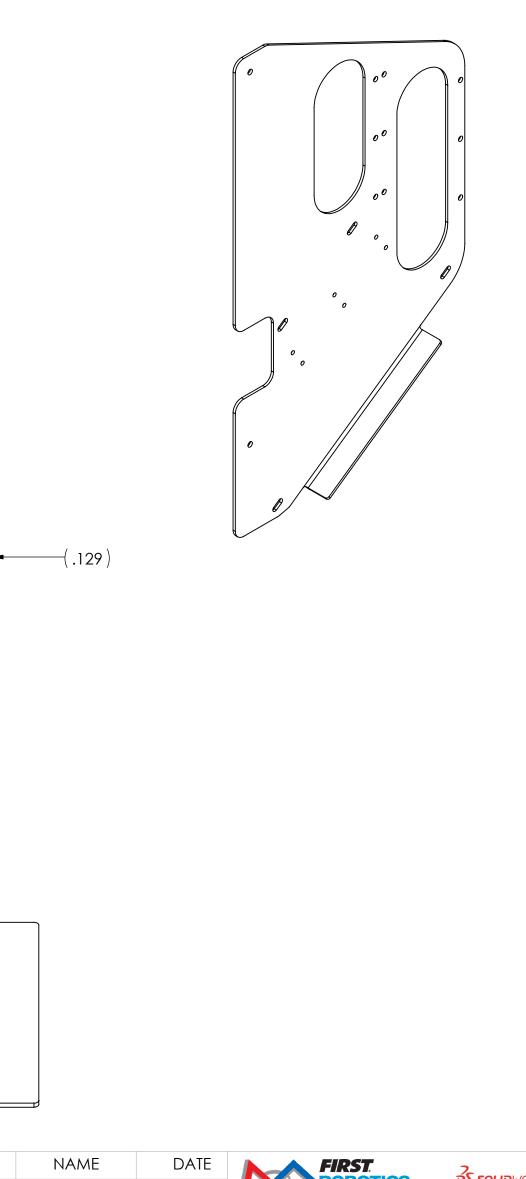
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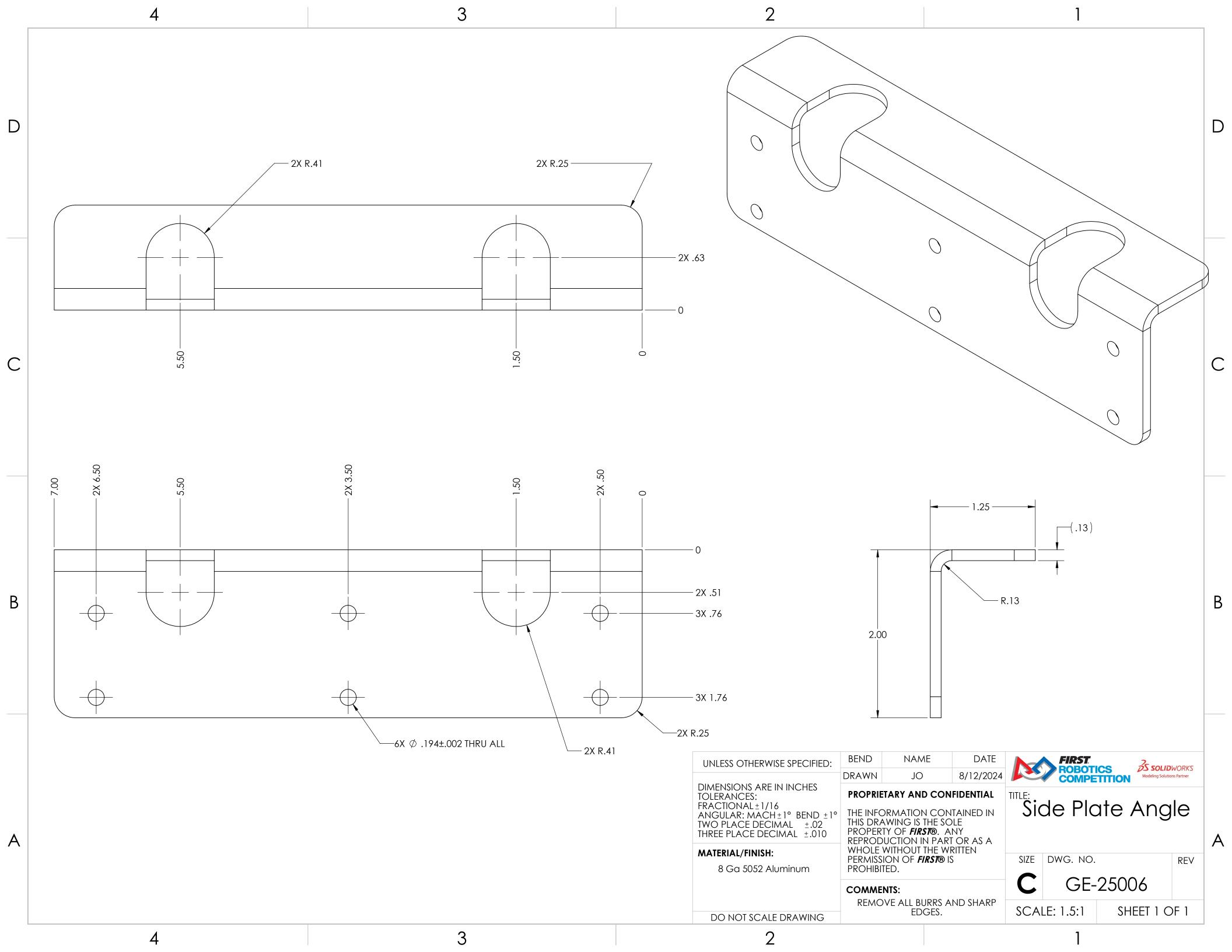
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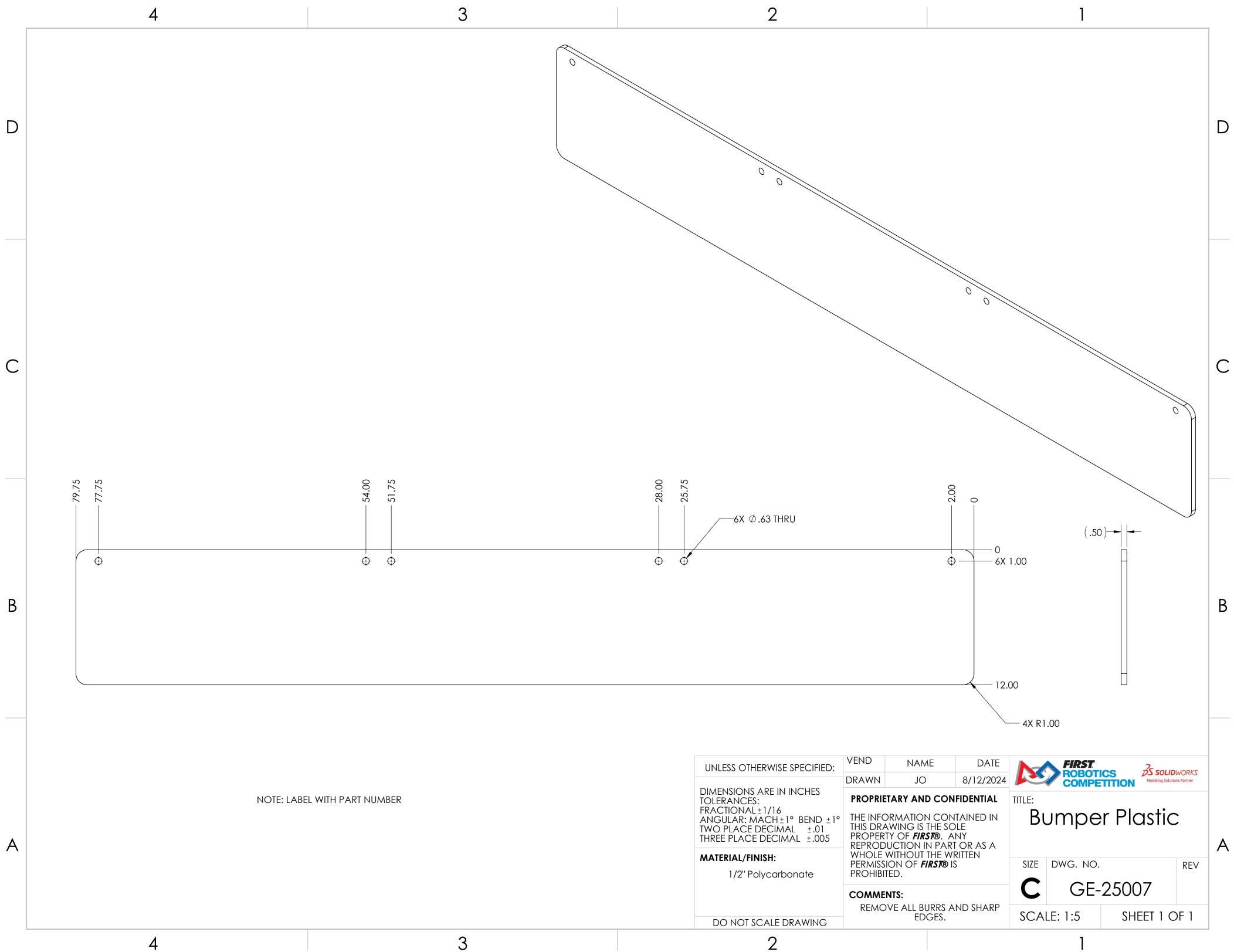




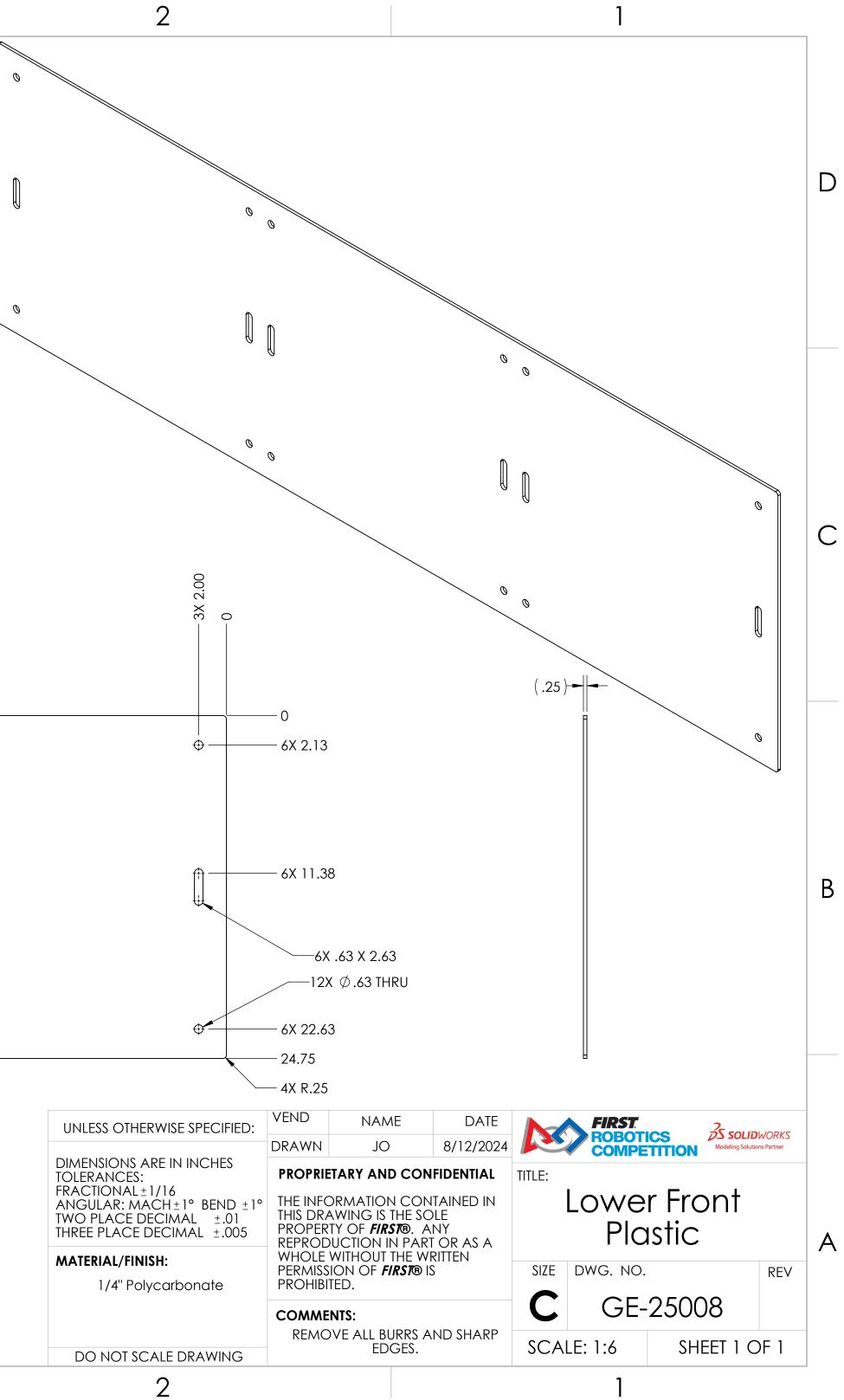


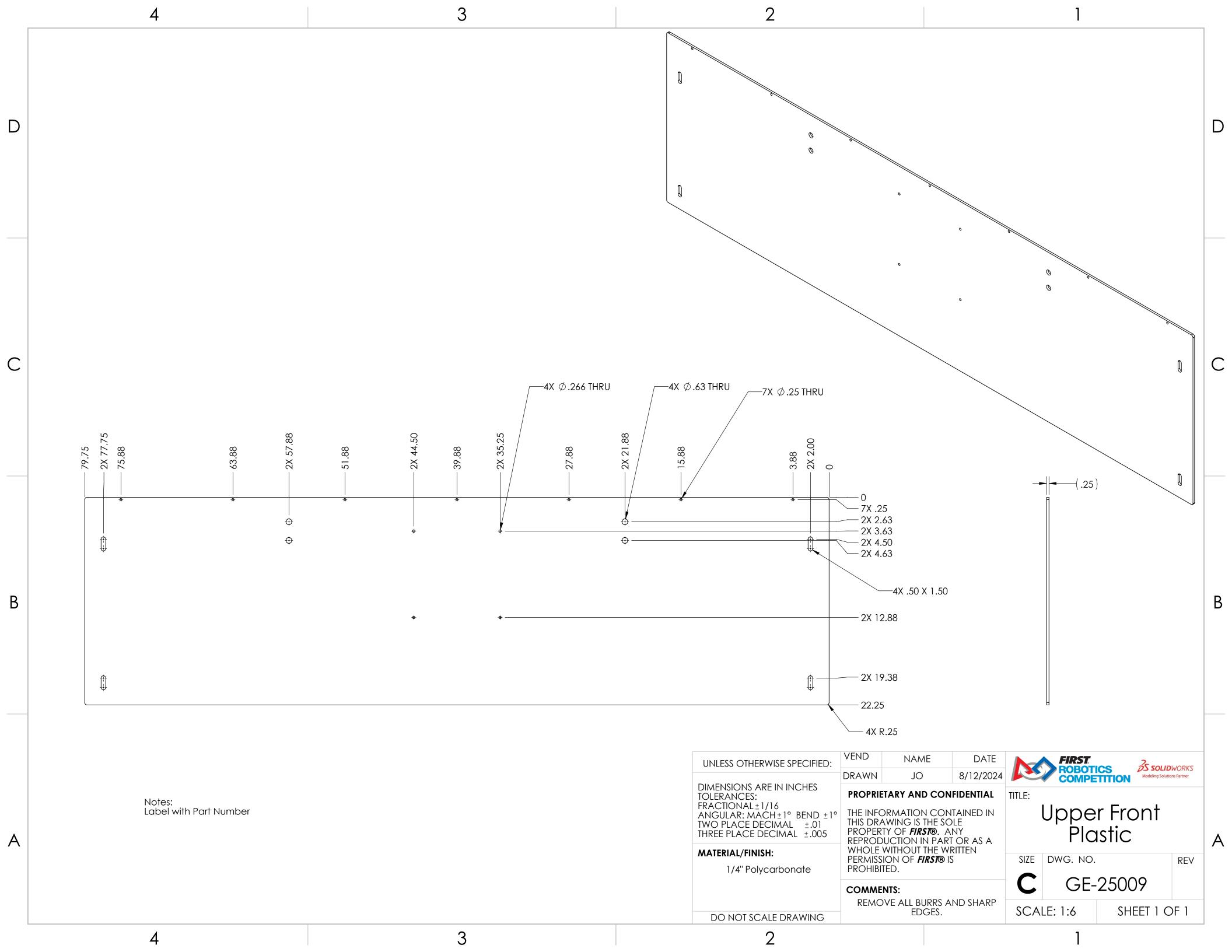


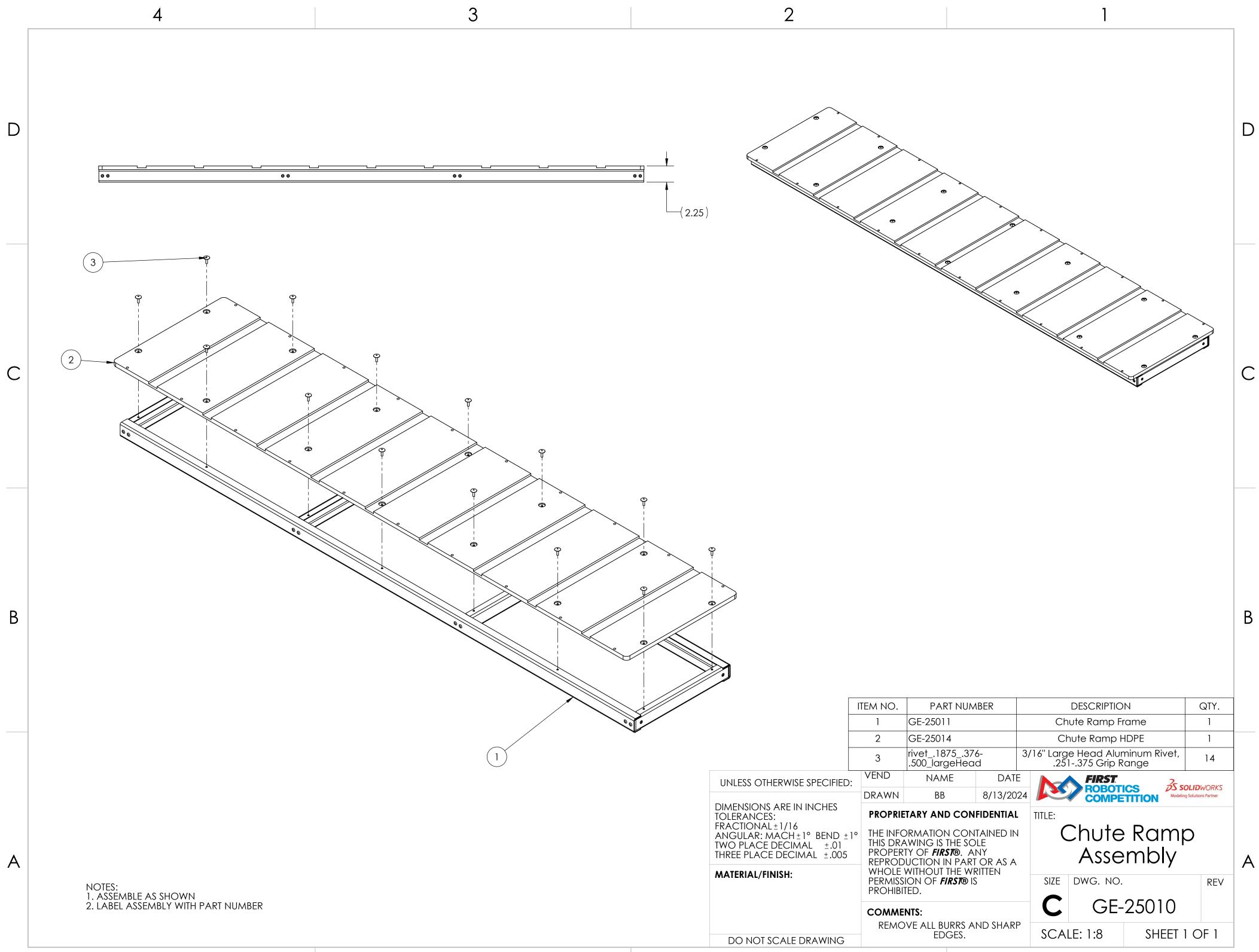




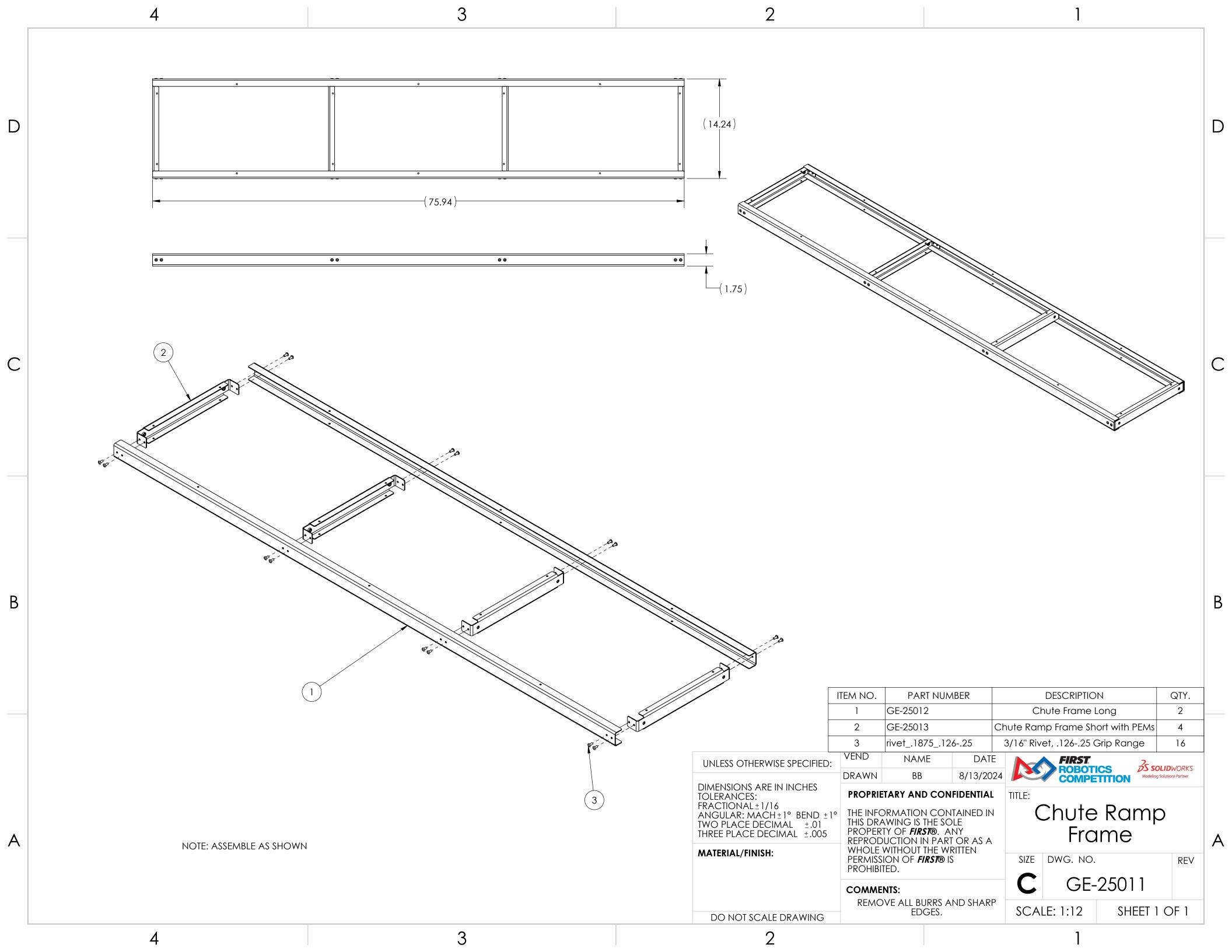
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	79.75 3X 77.75	3X 54.00 3X 51.75	3X 28.00 3X 25.75	
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	NOTE: LABEL WITH PART NUMBE	R		L D TC FF A TV TF
А				T\ TH N

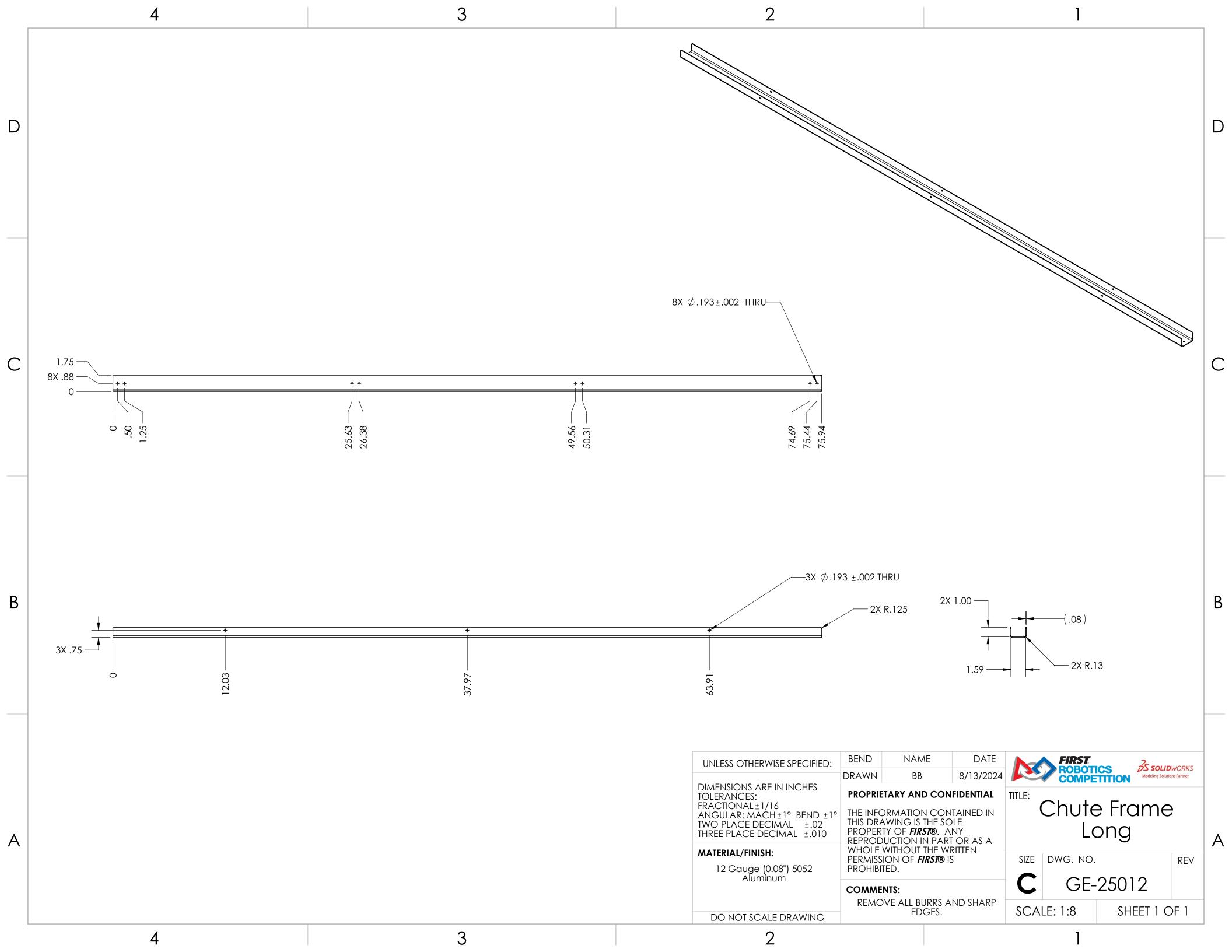


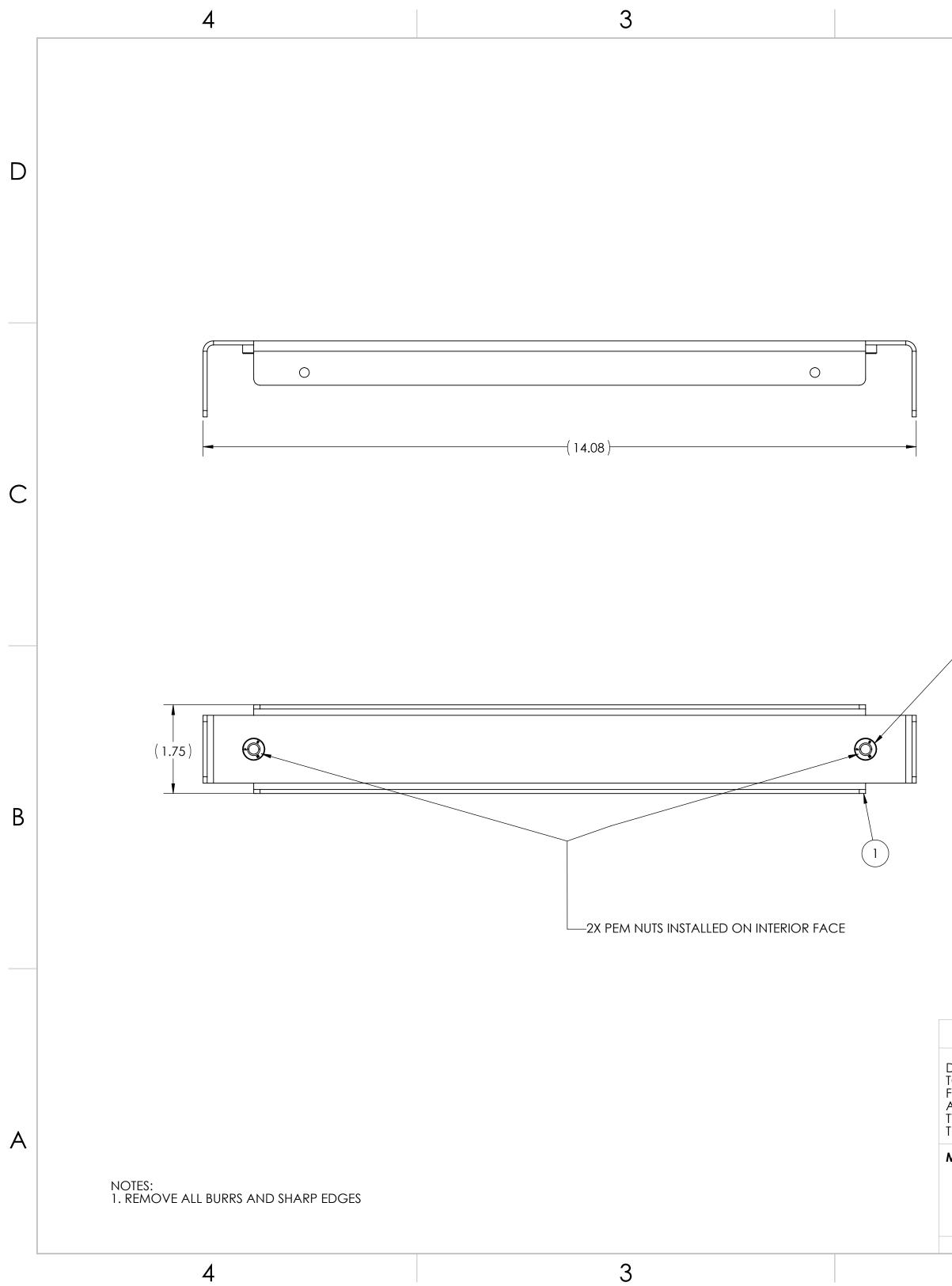


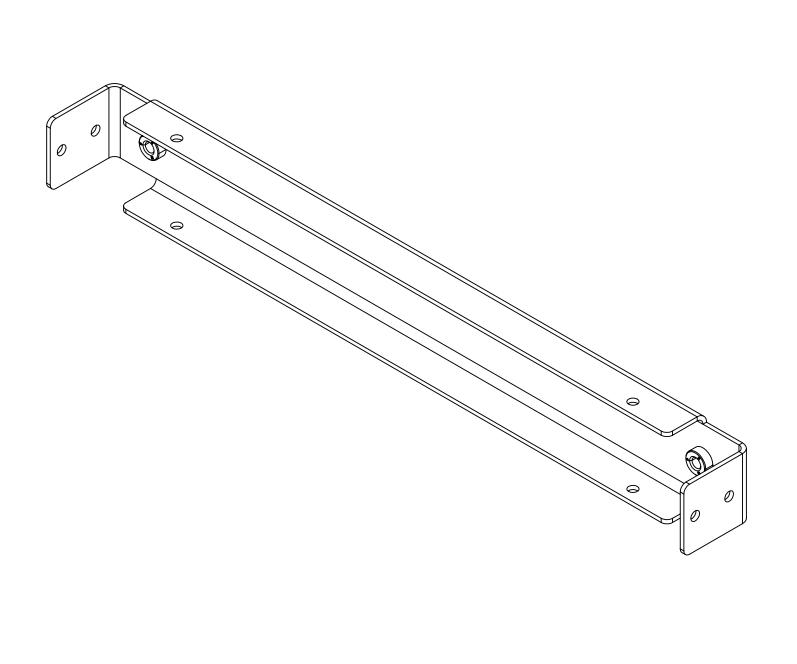


	ITEM NO.	PART NUM	1BER		DESCRIPTIO	N	G	QTY.]
	1	GE-25011		Ch	nute Ramp Fi	rame		1	1
	2 GE			C	hute Ramp H		1		
	3		vet1875376- 3 600_largeHead		3/16" Large Head Aluminum Rivet, .251375 Grip Range			14	1
UNLESS OTHERWISE SPECIFIED	VEND :	NAME	DAT		FIRST	25	501121		-
	DRAWN	BB	8/13/20	24			SOLIDWORKS eling Solutions Partner		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	ETARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART WITHOUT THE WI	TAINED IN DLE NY I OR AS A	Chute Ramp					F	
		PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.			REV	
	COMME				GE-	25010			
DO NOT SCALE DRAWING	IVE ALL BURRS A EDGES.	ND SHARI	SCA	SCALE: 1:8		10	= 1		
2				1					







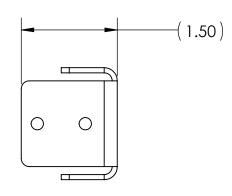


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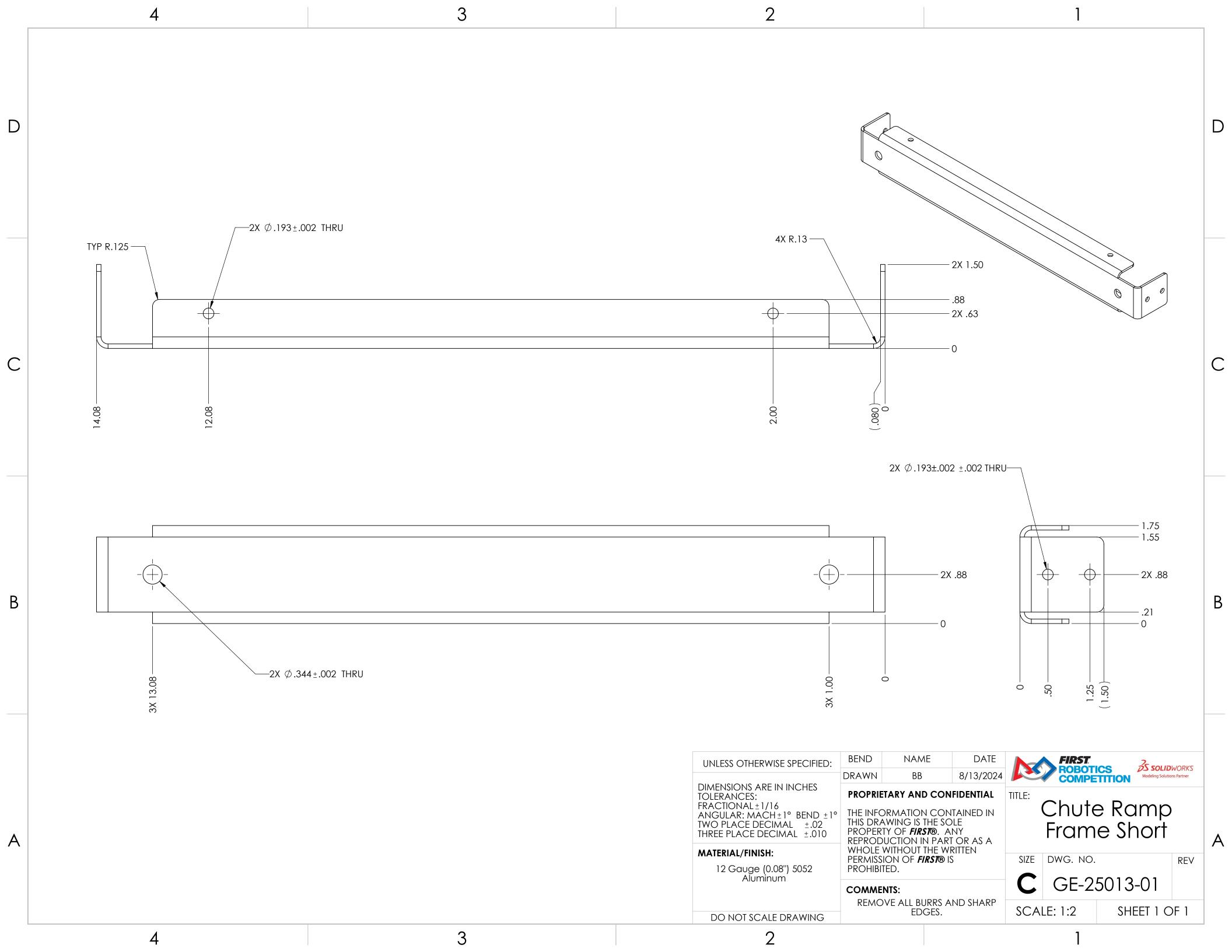
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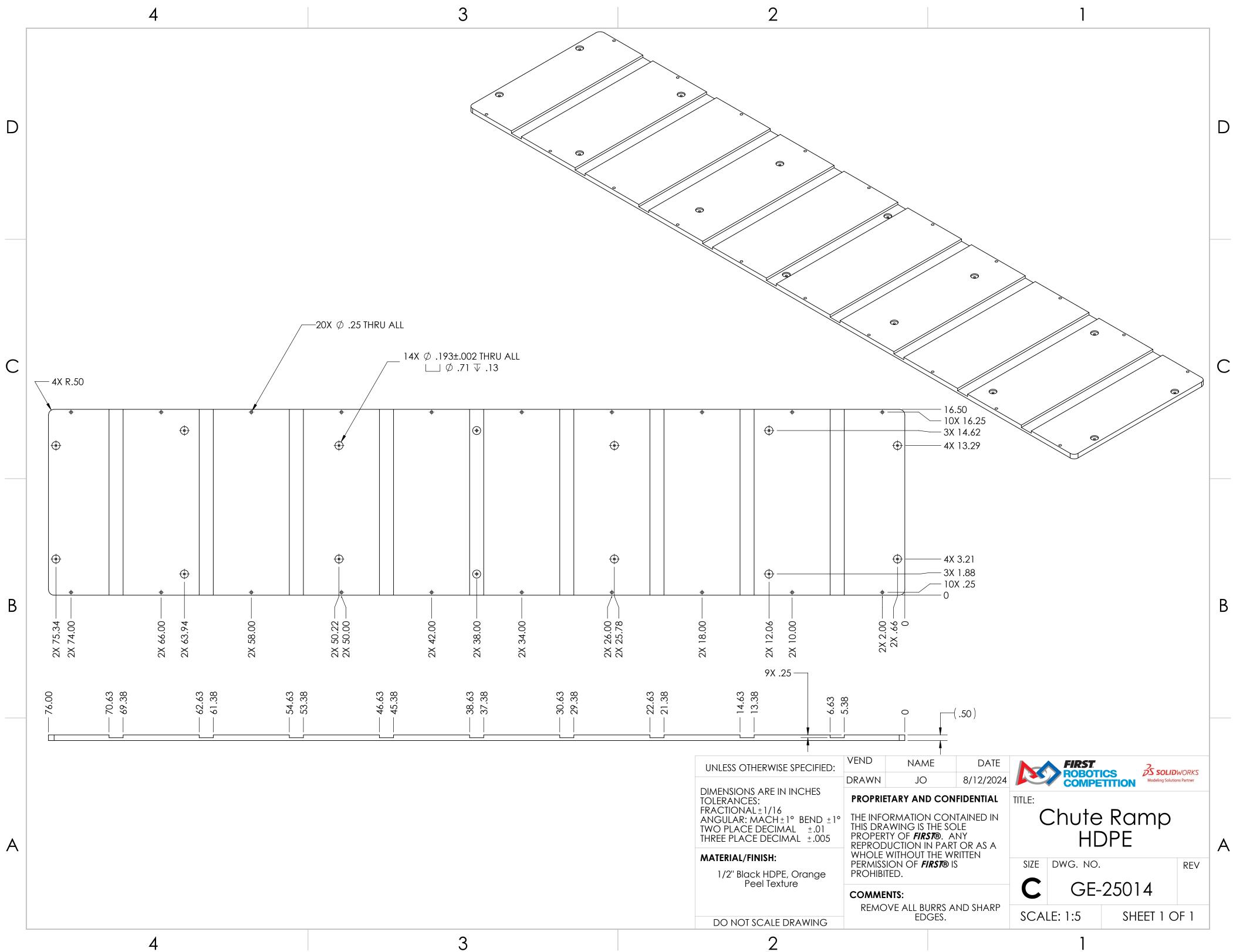
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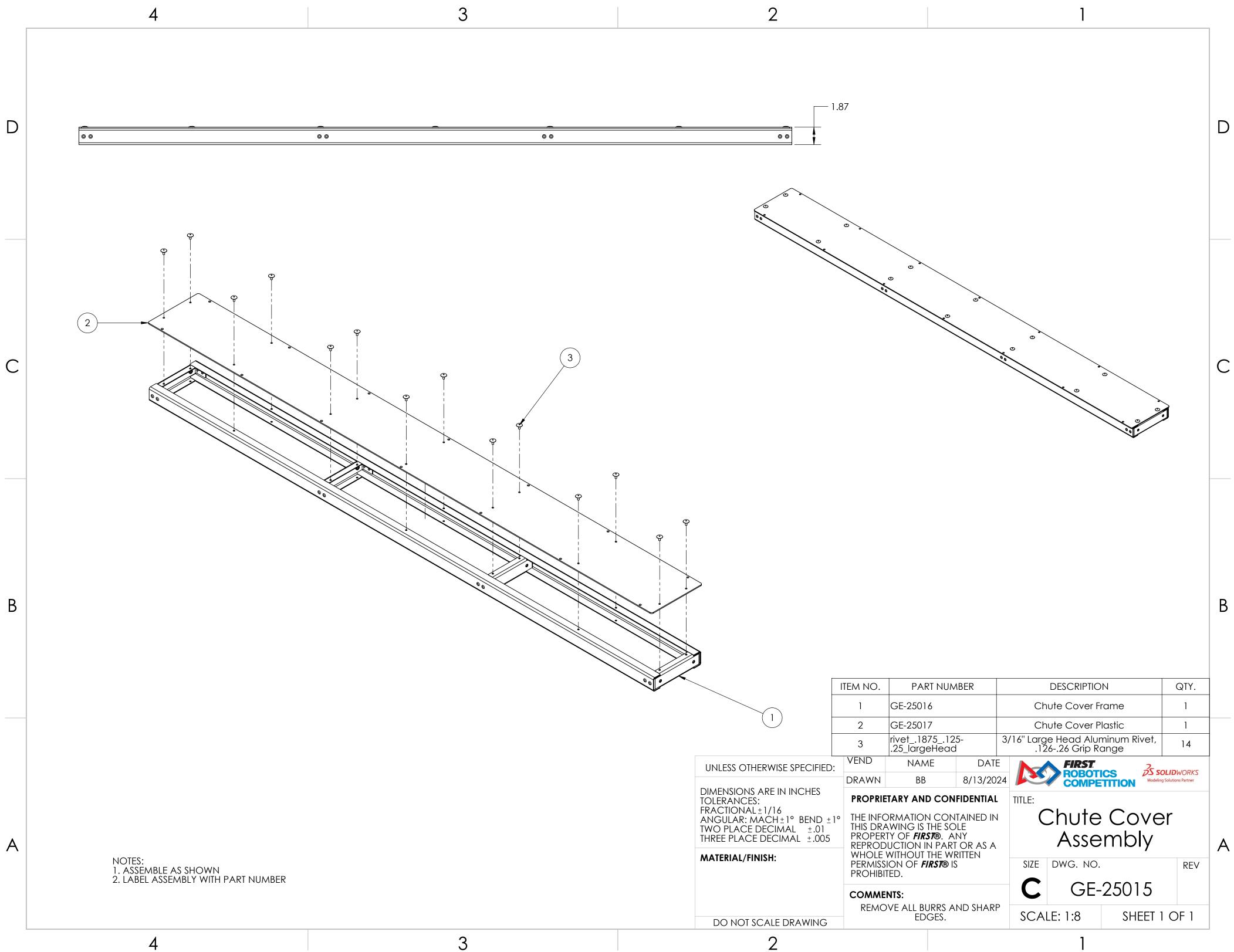
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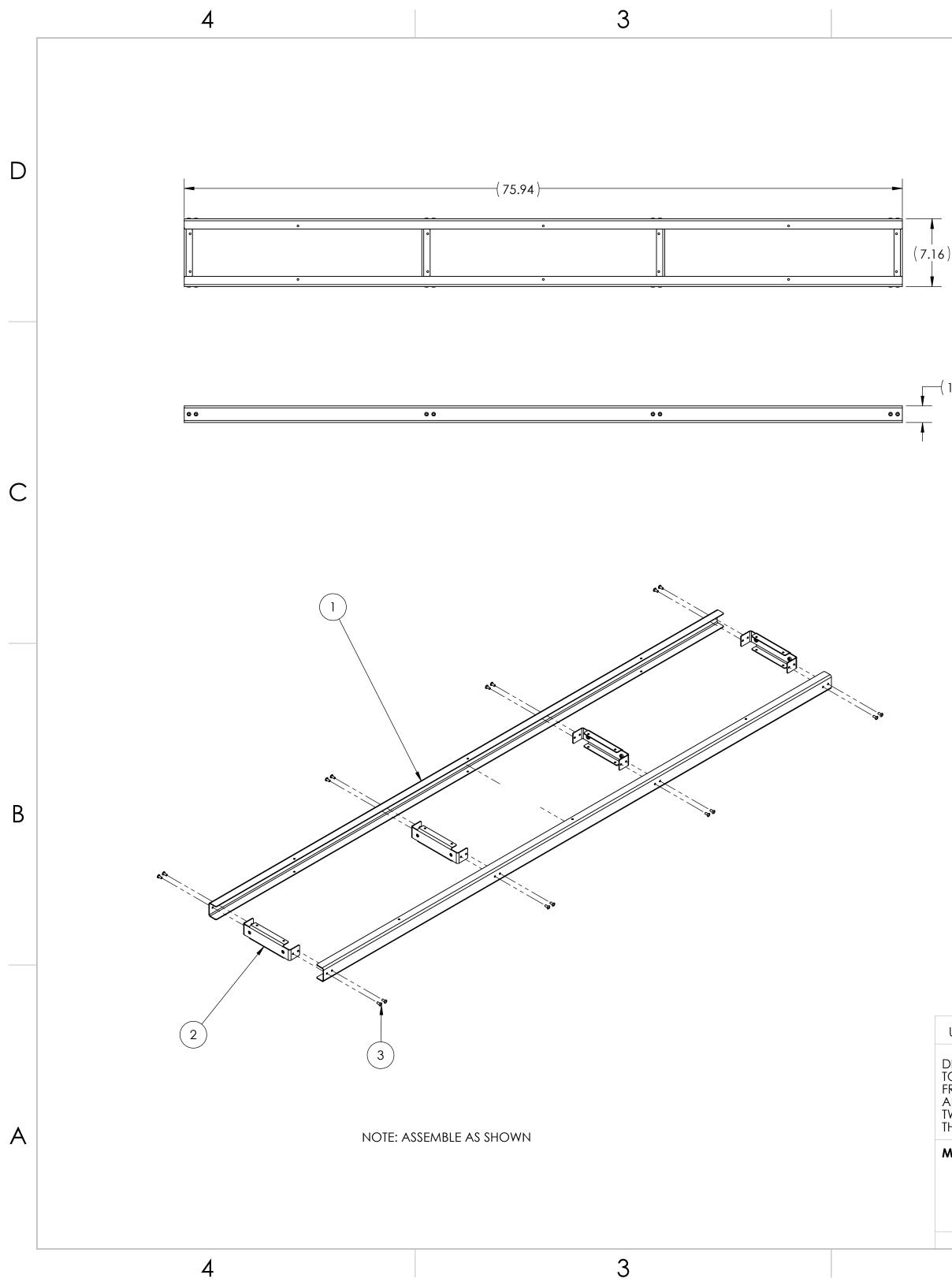


								1
	ITEM NO.	PART NUM	1BER		DESCRIPTIO	Ν	QTY.	1
-	1	GE-25013-01		Chute	e Ramp Fram	ne Short	1	
-	2	pem_clinchnu 054	m_clinchnut25_20 1/4-2		1/4-20 self-clinching nut, .054 shank			
UNLESS OTHERWISE SPECIFIED	VEND	NAME	DAT		FIRST.			1
	DRAWN	BB	8/13/20	24	ROBOTI	Mardallan	Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN DLE NY I OR AS A	Frame Short				A
MATERIAL/FINISH: 12 Gauge (0.08'') 5052	-	WITHOUT THE WI ION OF FIRST® IS TED.		SIZE	DWG. NO.		REV	_
Aluminum	COMME	NTS:		C	GE-	25013		
DO NOT SCALE DRAWING	REMO	VE ALL BURRS A EDGES.	ND SHARI	SCA	SCALE: 1:2 SHEET		OF 1	-
2				· · · · · · · · · · · · · · · · · · ·	1			

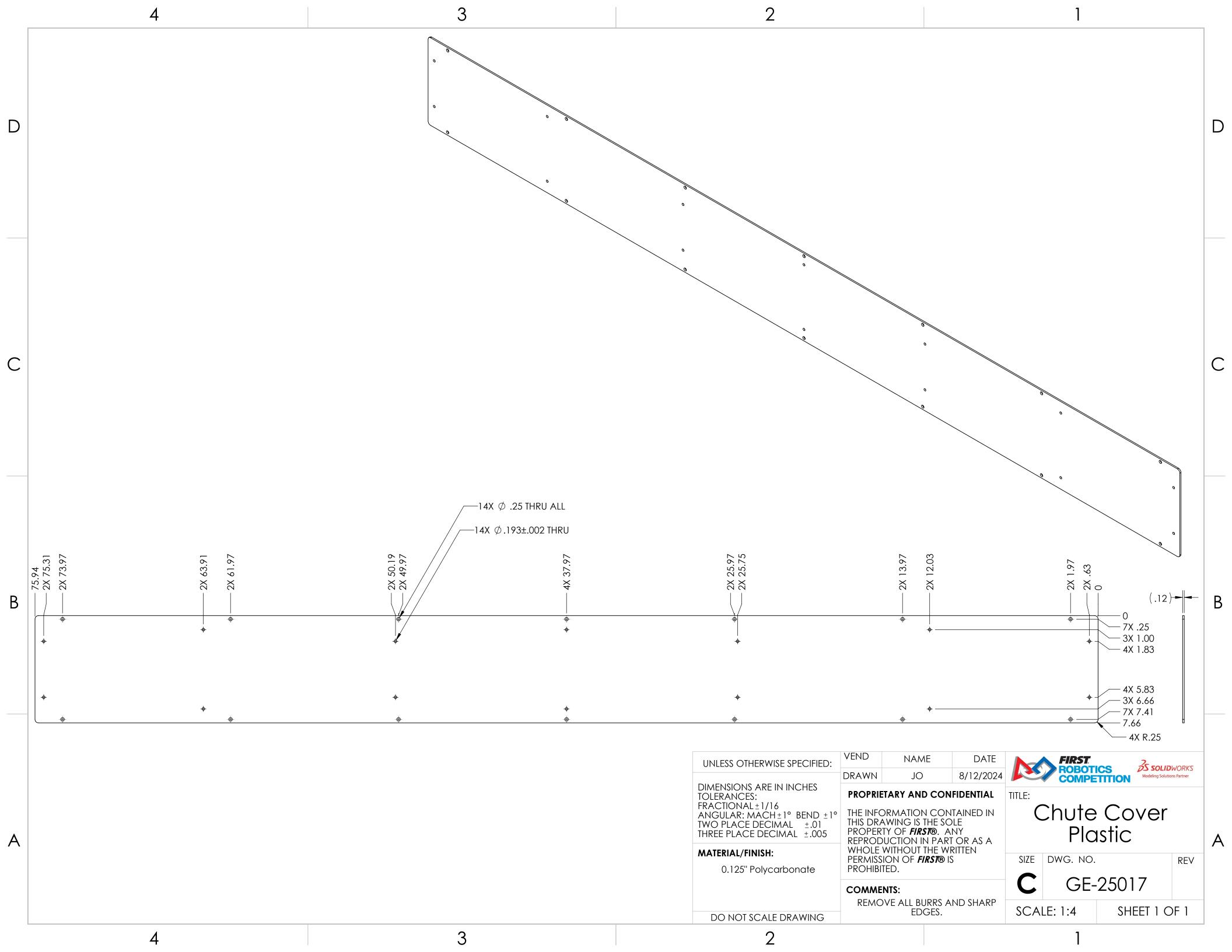


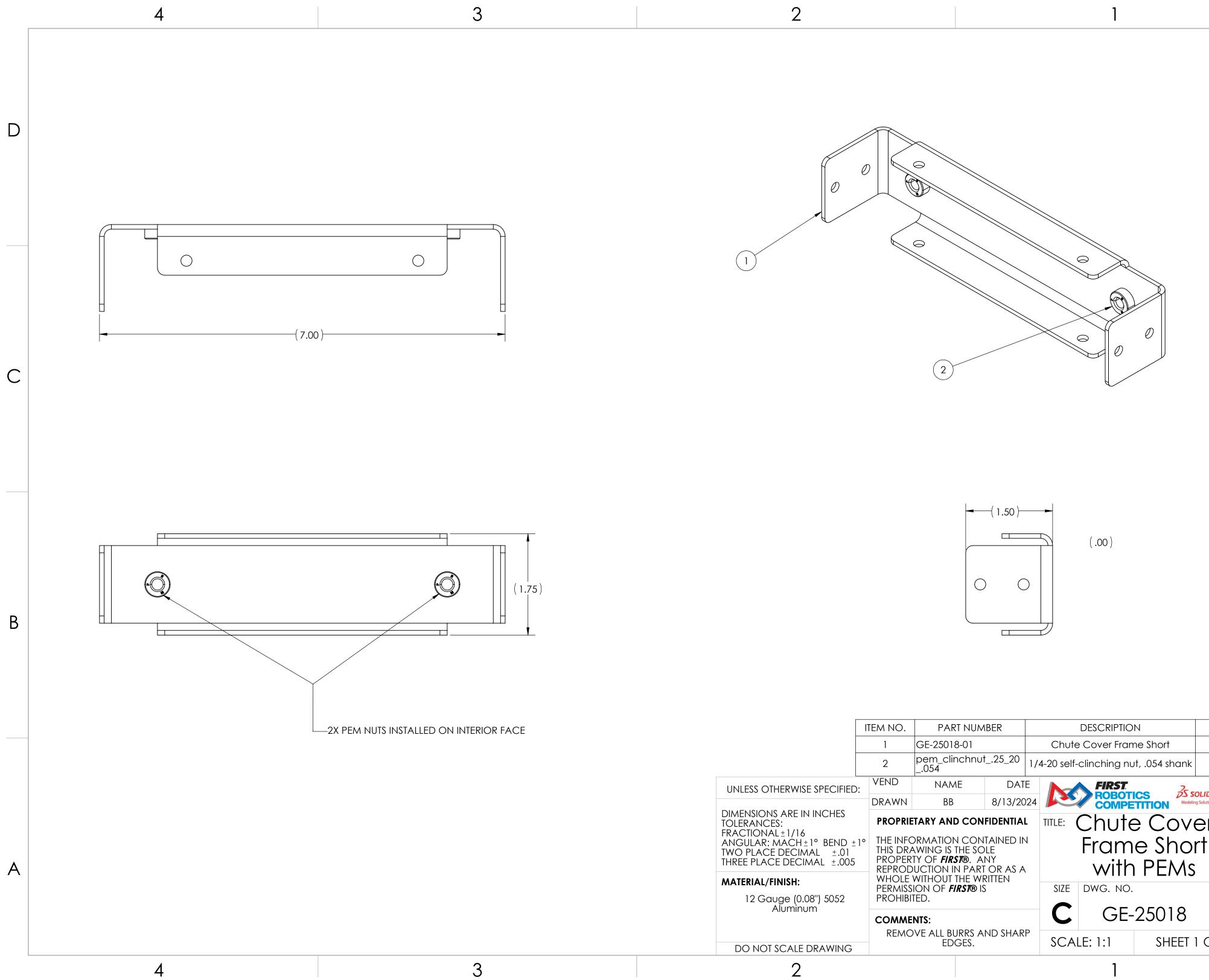






2					1			
16)					:	·	0	D
-(1.75)		00						С
	ITEM NO.	PART NU/ GE-25012	MBER		DESCRIPTIC Chute Frame		QTY. 2	B
-		GE-25018	04.05		over Frame Sh		4	-
	VFND	rivet187512 NAME	2625 DATI		Rivet, .12625		16]
UNLESS OTHERWISE SPECIFIED	: DRAWN	BB	8/13/20		FIRST ROBOT COMPE		DLIDWORKS g Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	TARY AND CON RMATION CON WING IS THE SO Y OF FIRST® . A UCTION IN PAR WITHOUT THE W ON OF FIRST® ED.	NTAINED IN OLE ANY RT OR AS A VRITTEN	TITLE: Chute Cover As A Frame			P Rev	A	
					C GE-25016			
DO NOT SCALE DRAWING	KEMO	VE ALL BURRS / EDGES.	AND SHAKI	SCALE: 1:12 SHEET 1 OF 1				



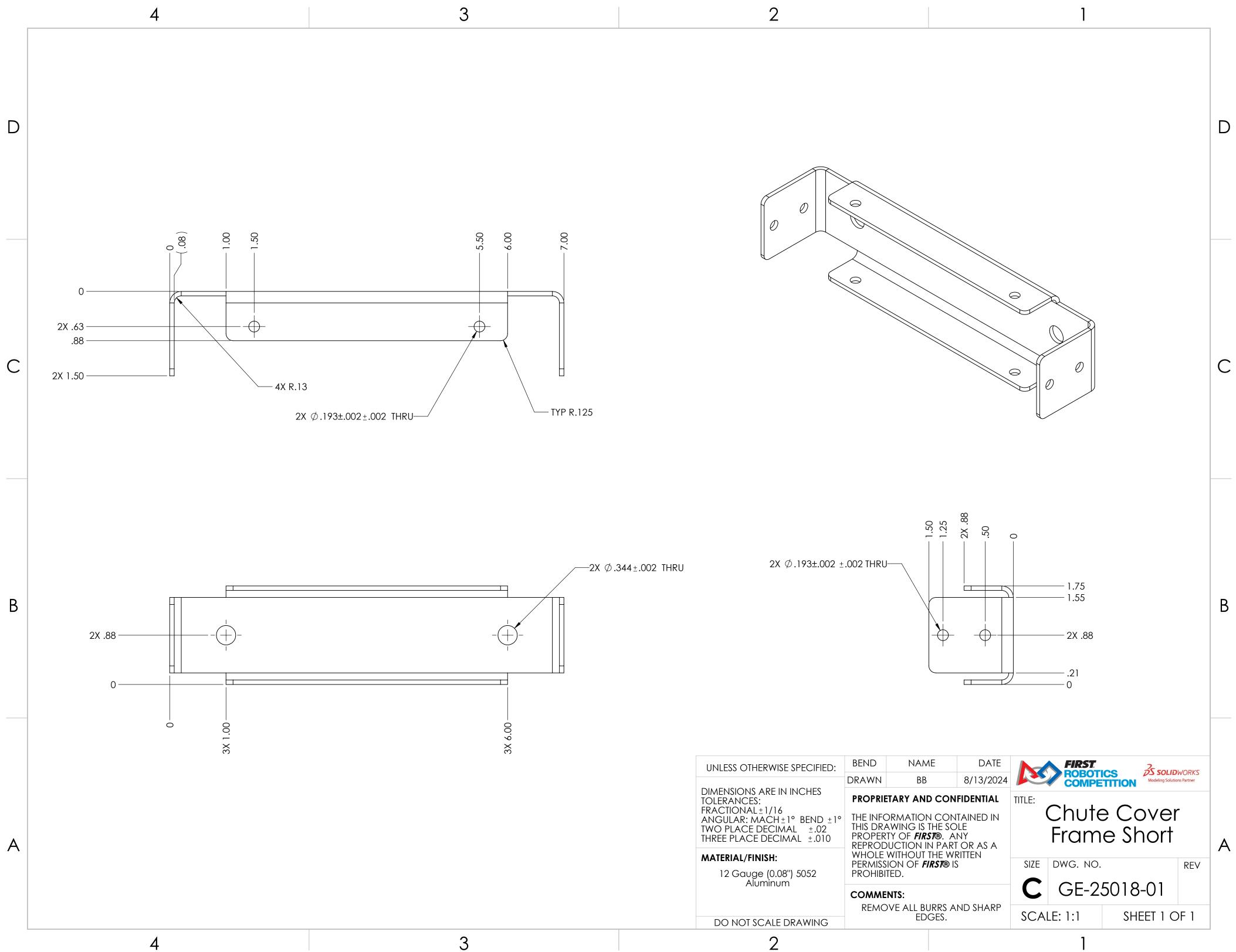


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	ITEM NO.	PAR	RT NUM	BER		DESCRIPTIO	N	QTY.]
	1	GE-2501	8-01		Chu	te Cover Fran	ne Short	1	1
	2	pem_clir 054	nchnut	25_20	1/4-20 sel	f-clinching nu	t, .054 shank	2	
UNLESS OTHERWISE SPECIFIED	VEND	NAM	۱E	DAT	E	FIRST]
	DRAWN	BB		8/13/20	24			OLIDWORKS ng Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	1° THE INFO THIS DR/ PROPER REPROD	ORMATION AWING IS TY OF FIR	ND CONFIDENTIAL ON CONTAINED IN S THE SOLE RST® . ANY IN PART OR AS A		Frame Short				A
MATERIAL/FINISH:	PERMISS	SION OF F			SIZE	DWG. NO.		REV	-
12 Gauge (0.08'') 5052 PROHIBIT Aluminum COMMEI					C	GE-	25018		
	REMC	DVE ALL BU		ND SHAR	P sc/				-
DO NOT SCALE DRAWING		ED	GES.		SCF	SCALE: 1:1 SHEET			
2				1					



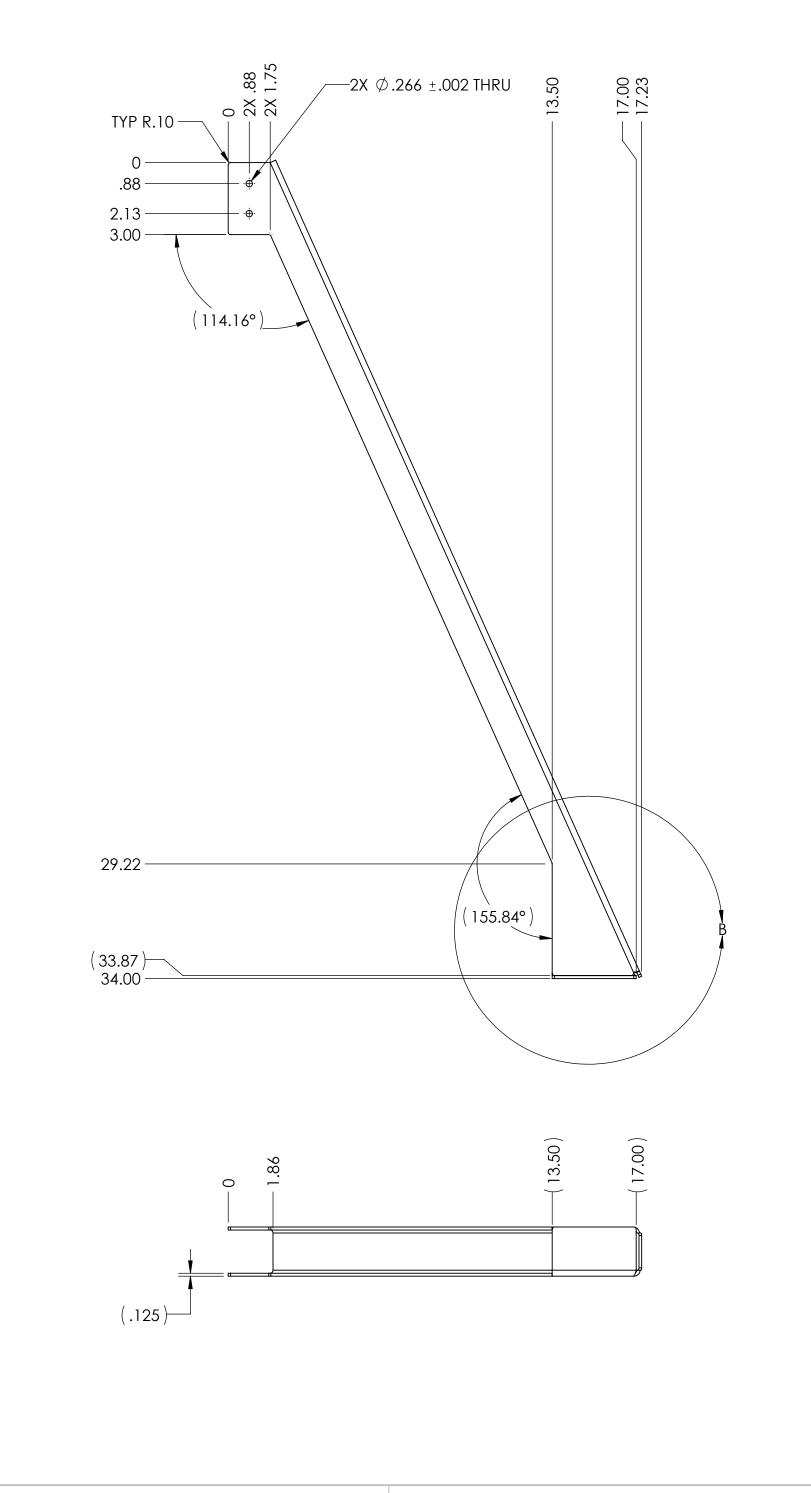
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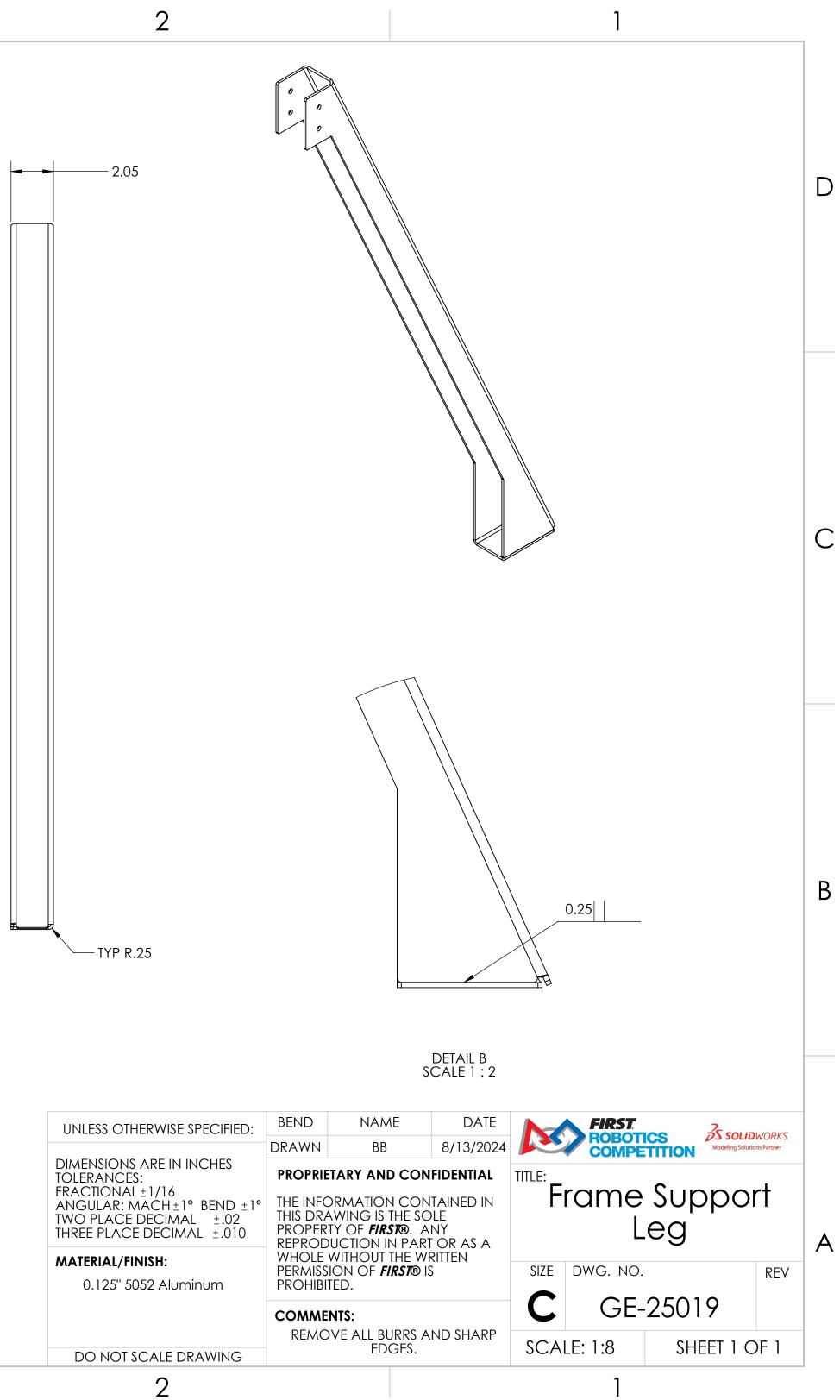
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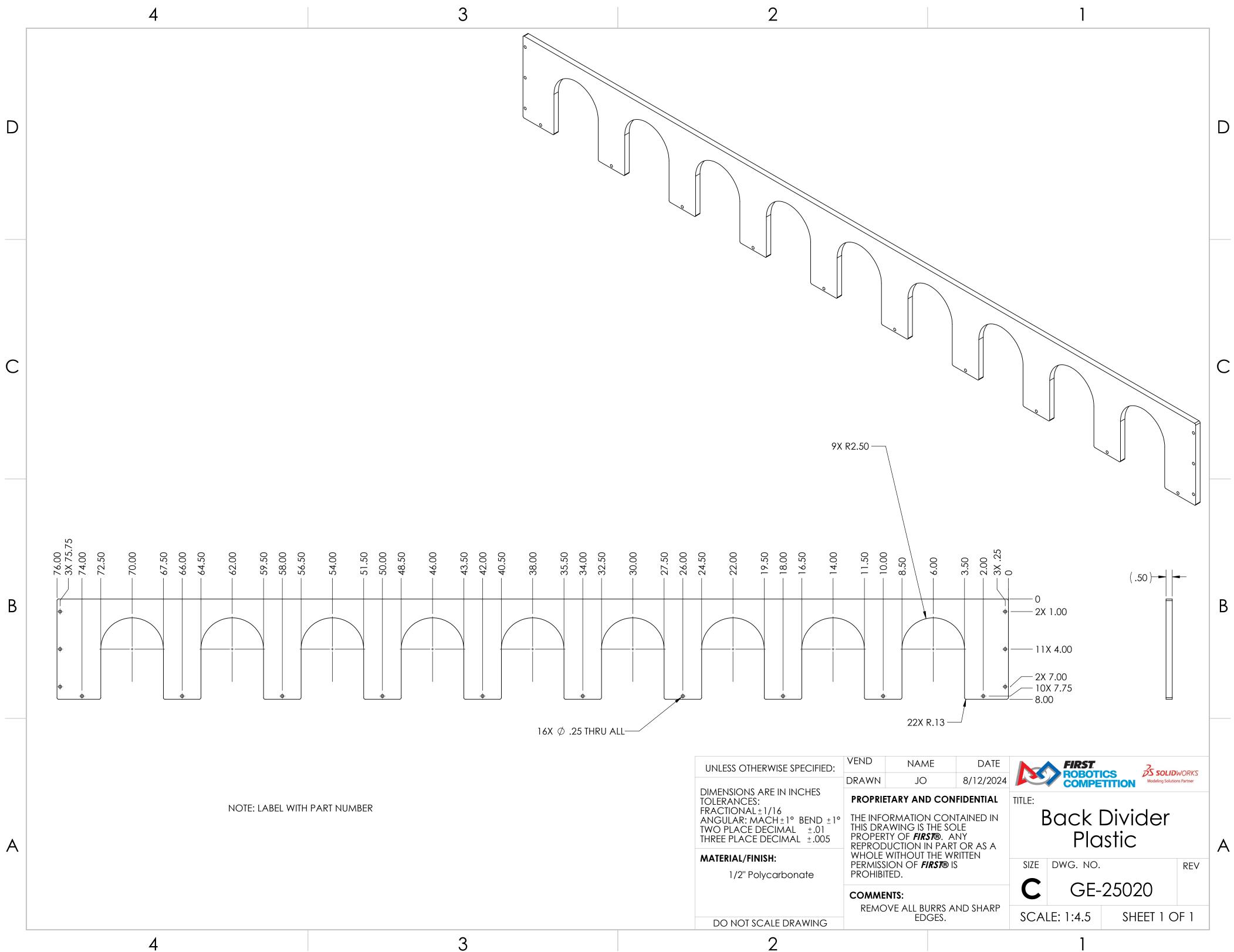
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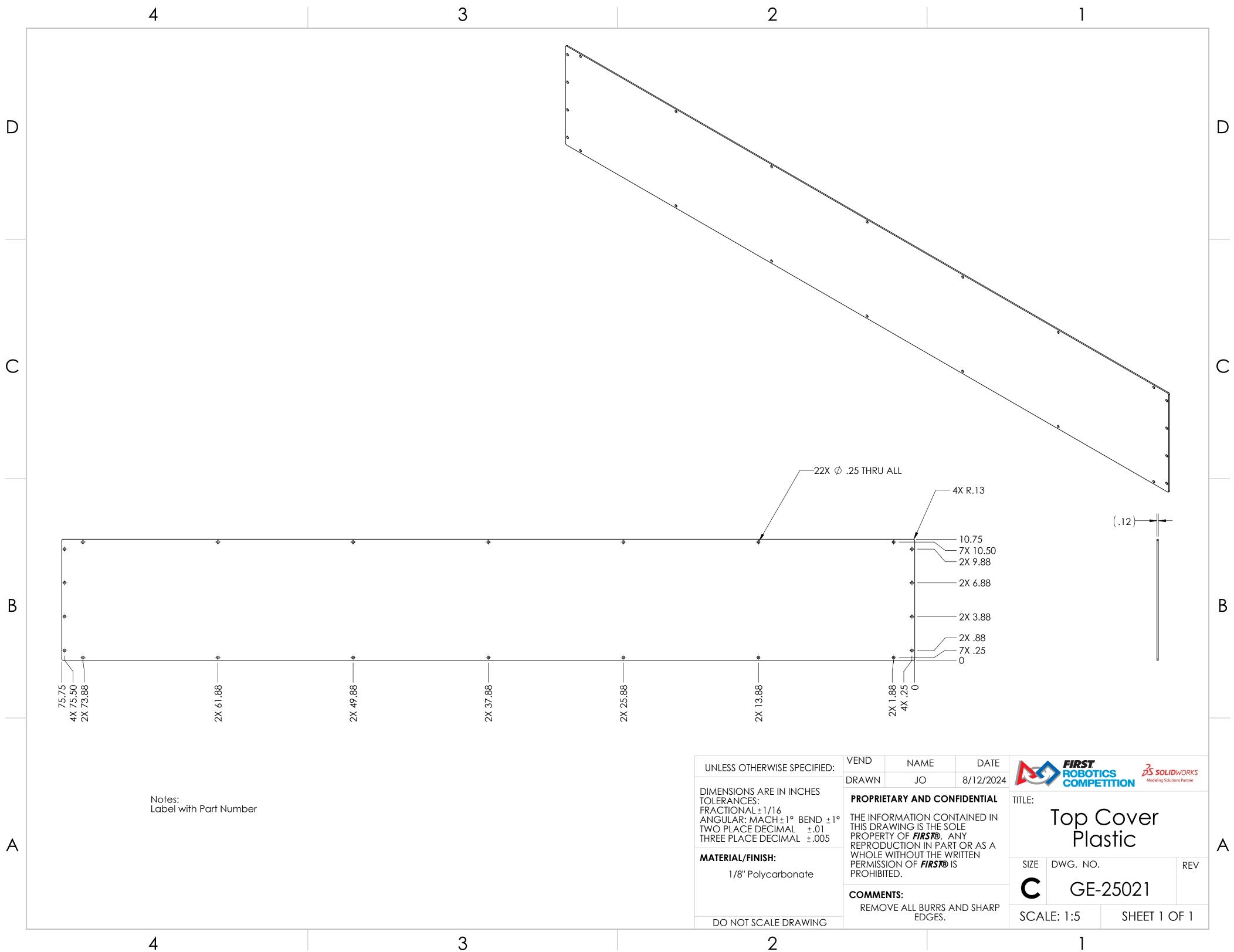
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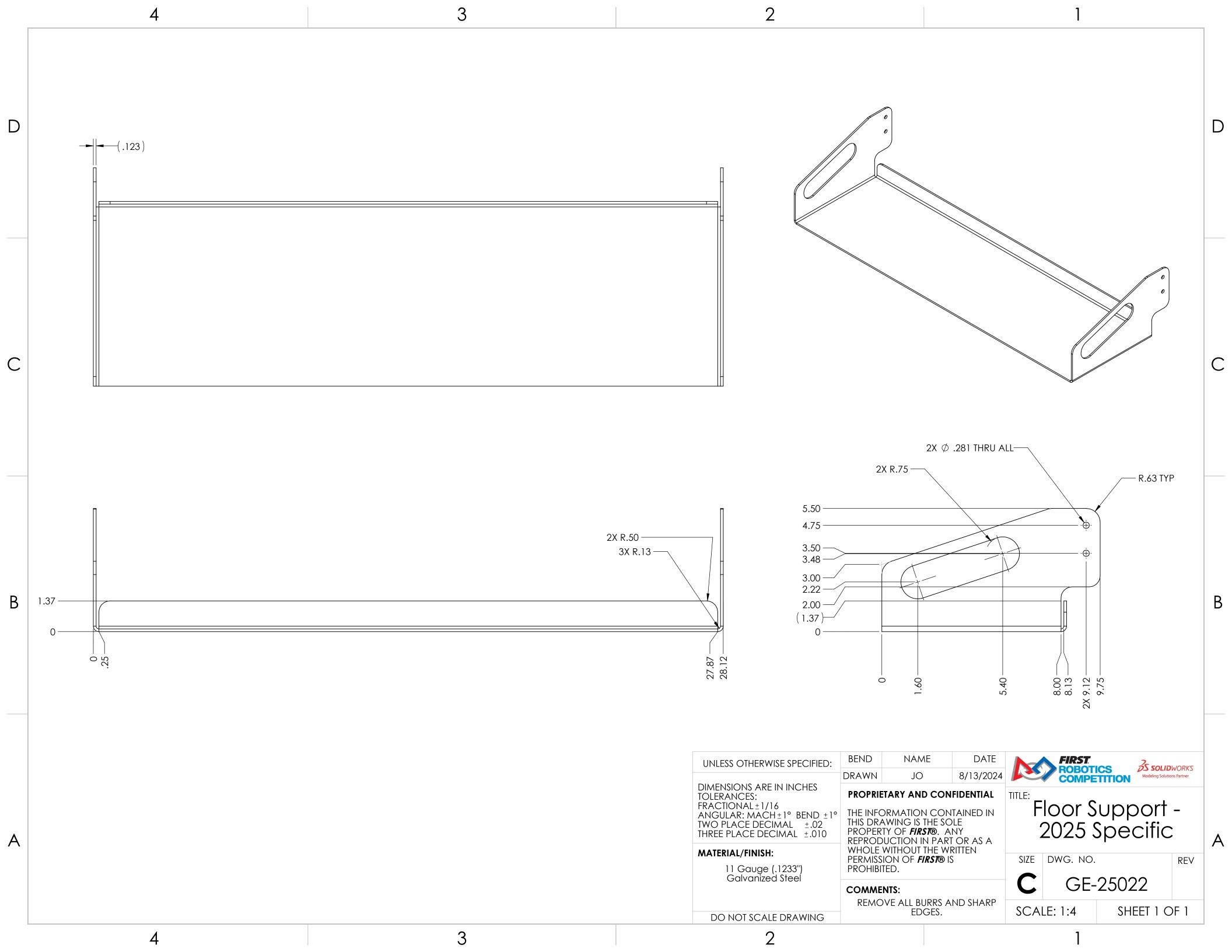


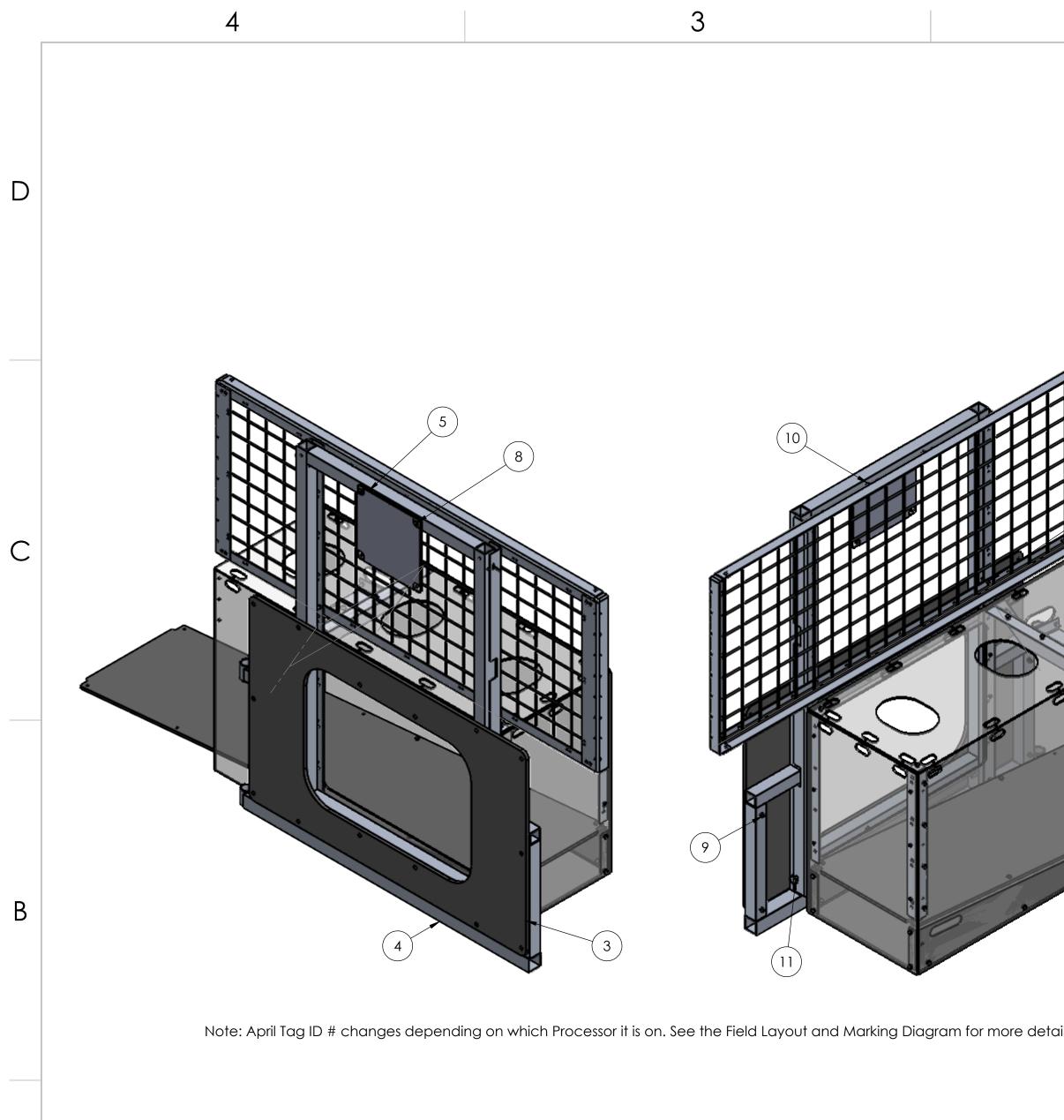
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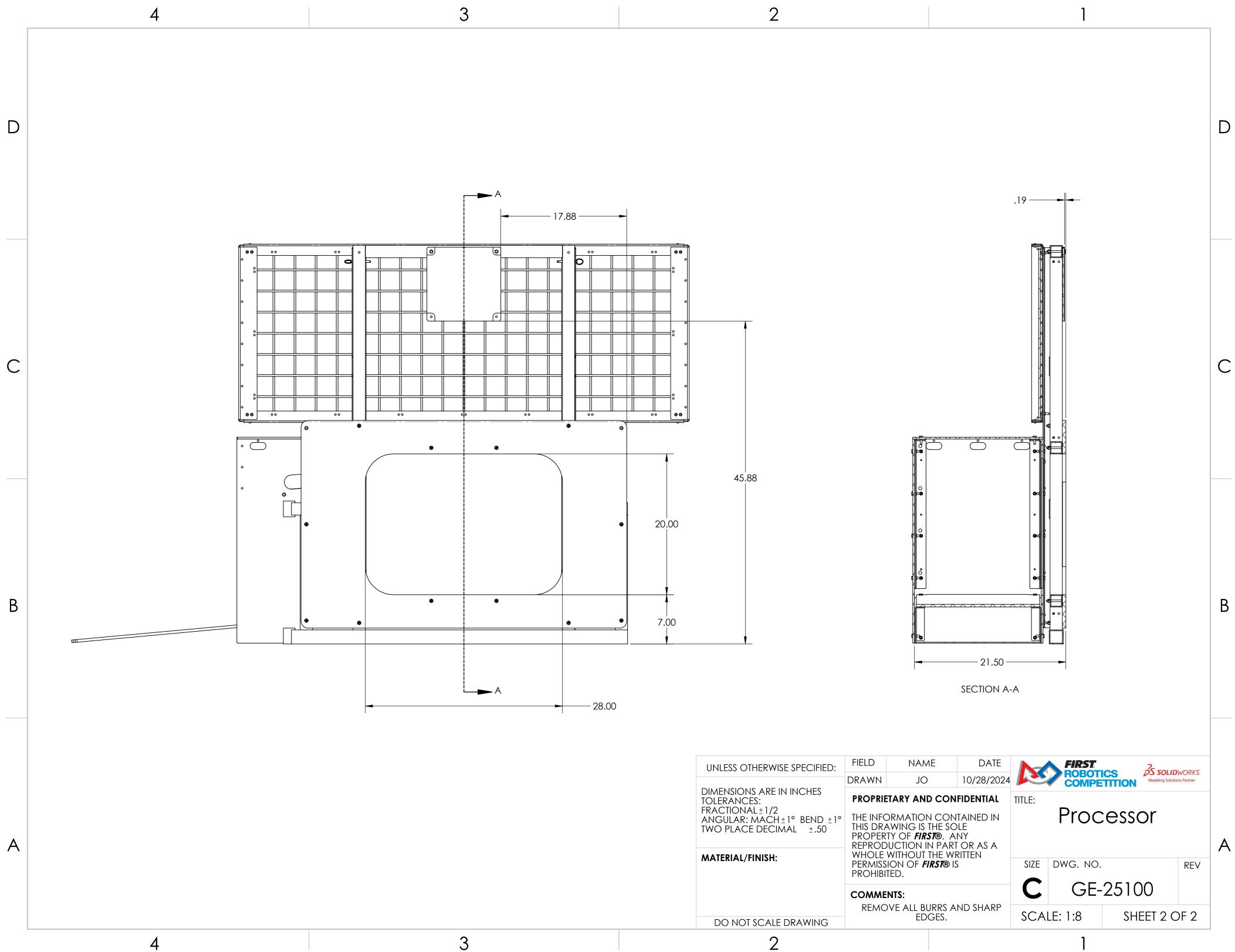


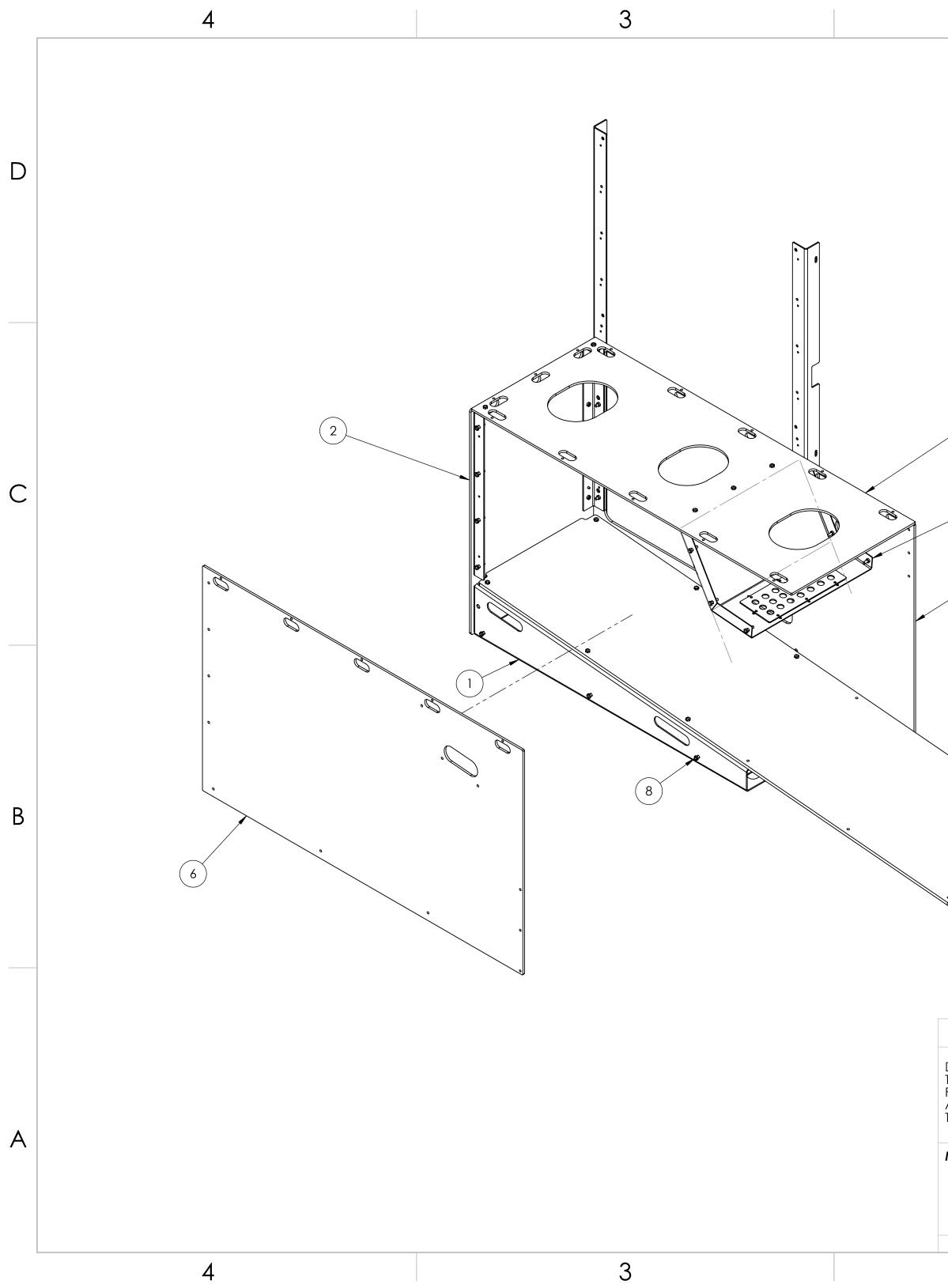
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	ITEM NO						QTY.				
		1 GE-25101			Ramp Assembly Fence Frame						
	2		25116			1					
	4	GE-25119 GE-25120 FE-00083-ID3			Process	1					
	4				Processor Weldment AprilTag		1	-			
	6	fen			ULINE Grid 1" Long 1/4-20 Hex Head Bolt 2.5" Long 1/4-20 Hex Head			В			
ails.		7		nfigurable Bc			olt	4			
		8						2	-		
		Ŏ			gurable Bolt		Bolt Steel Phillips Flat Head		_		
		9	flat_	_phil25_20_	2.75	Screw, 1/4"-20 x 2-3/4" long, fully threaded		12			
		10	nylo	ock25_20		Steel Nylon-Insert Locknut, 1/4"-20		14			
		11	pin_ 125	_quick_ring	25_2.3	Pin, Ring-Gri with SS Ring 2.3125" U	p Quick-Release , 1/4" Diameter, sable Length	6			
UNLESS OTHERWISE SPECIFIED:	FIELD	NAM	E	DATE		FIRST	2				
	DRAWN	JO		10/28/2024		ROBOT					
DIMENSIONS ARE IN INCHES TOLERANCES:	PROPRIE	FARY AND	D CONFIDENTIAL N CONTAINED IN THE SOLE ST® . ANY		TITLE:	Processor					
FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.50	THIS DRA PROPERT	.WING IS T 'Y OF FIRS							А		
MATERIAL/FINISH:	UCTION IN PART OR AS A WITHOUT THE WRITTEN ION OF FIRST® IS			SIZE	DWG. NO.		REV				
-	PROHIBIT	ED.					05100				
					C	GE-	GE-25100				
DO NOT SCALE DRAWING	KFWO,		rrs a Ges.	ND SHARP	SCA	LE: 1:10	:10 SHEET 1 OF				
2				<u> </u>							





	ITEM NO.	PART NUMBER				DESCRIPTION				
	1	GE-25102			Processor Ramp Sheetmetal with PEMs				1	
	2	2 GE-25104 3 GE-25107			Pro	Processor Ramp Back Assembly				
	3				F	Processor Fieldside Assembly				
	4 GE-25110			110			Processor Ramp			
	5	GE-25111				Processor Top Panel				
	6	GE-25112				Process	1			
	7	GE-25113				Sensor Assembly				
	8	Configurable Bolt		1	1" Long 1/4-20 Hex Head Bolt			35		
UNLESS OTHERWISE SPECIFIED:	FIELD N			ME DAT			FIRST.	20-		
	DRAWN	JO	IO 12/6/2024 ROBOTICS SOLIDWOR Modeling Solutions Partne							
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.50	PROPRIETARY AND CON THE INFORMATION CON THIS DRAWING IS THE SC PROPERTY OF <i>FIRST</i> ®. A REPRODUCTION IN PAR			TAINED IN PLE NY		Ramp Assembly				A
MATERIAL/FINISH:	WHOLE \	NITHOUT ON OF F	IT THE WRITTEN			SIZE	DWG. NO.		REV	
				C	GE-25101					
	REMO		JRRS AND SHARF				LE: 1:8 SHEET 1		OF 1	
DO NOT SCALE DRAWING	EDGES.				JCALL, 1.0					
2			1							

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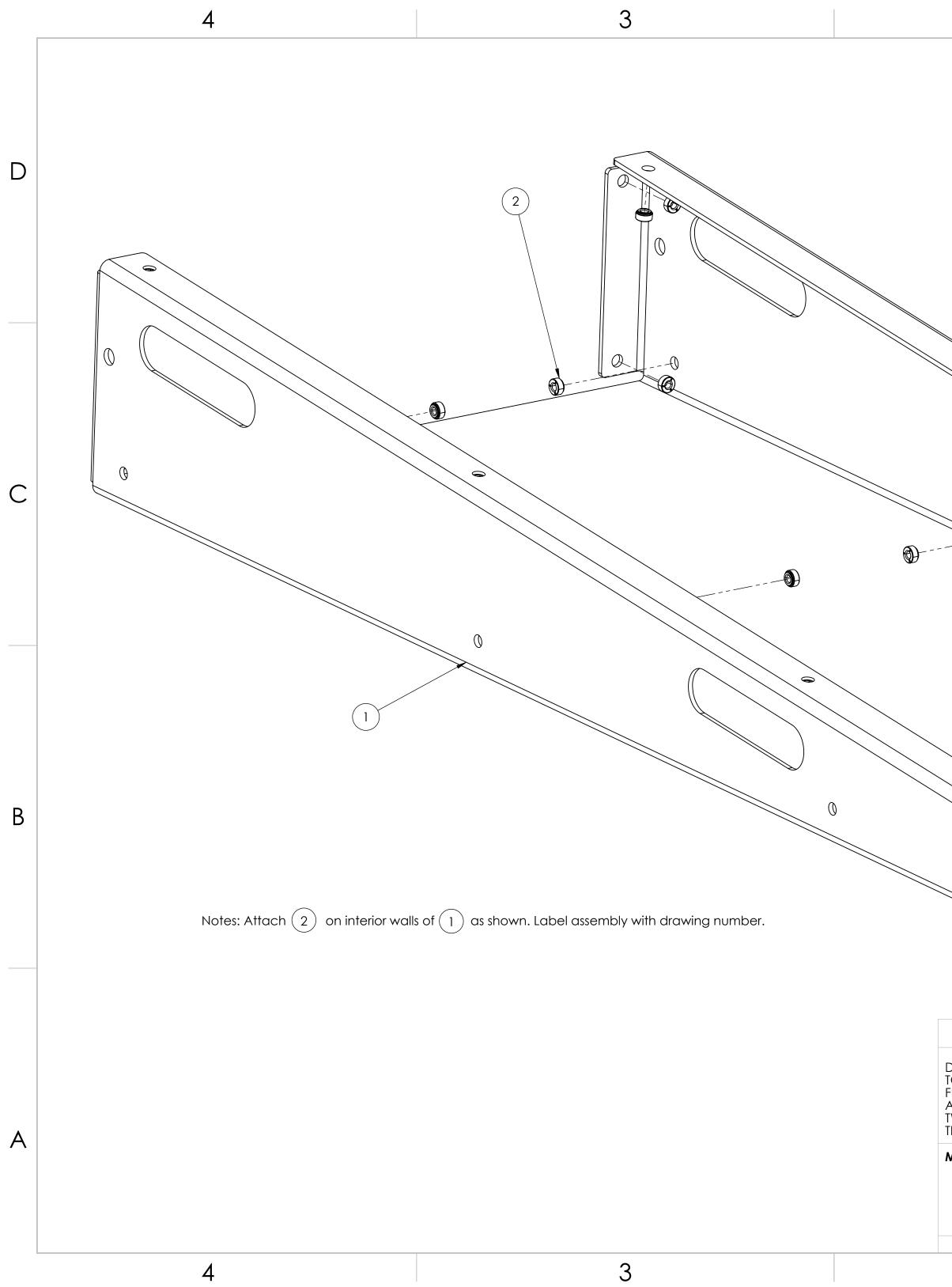
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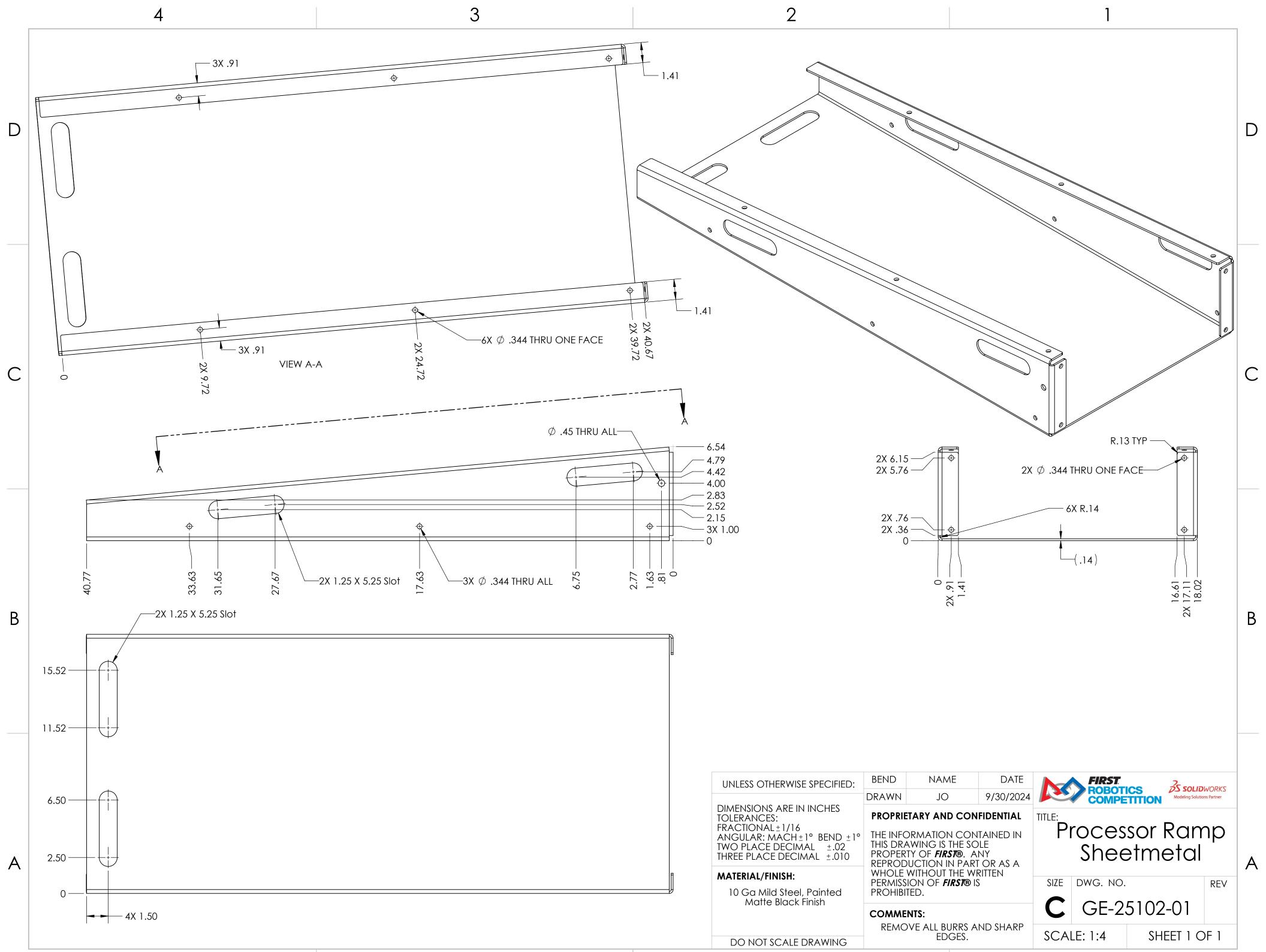
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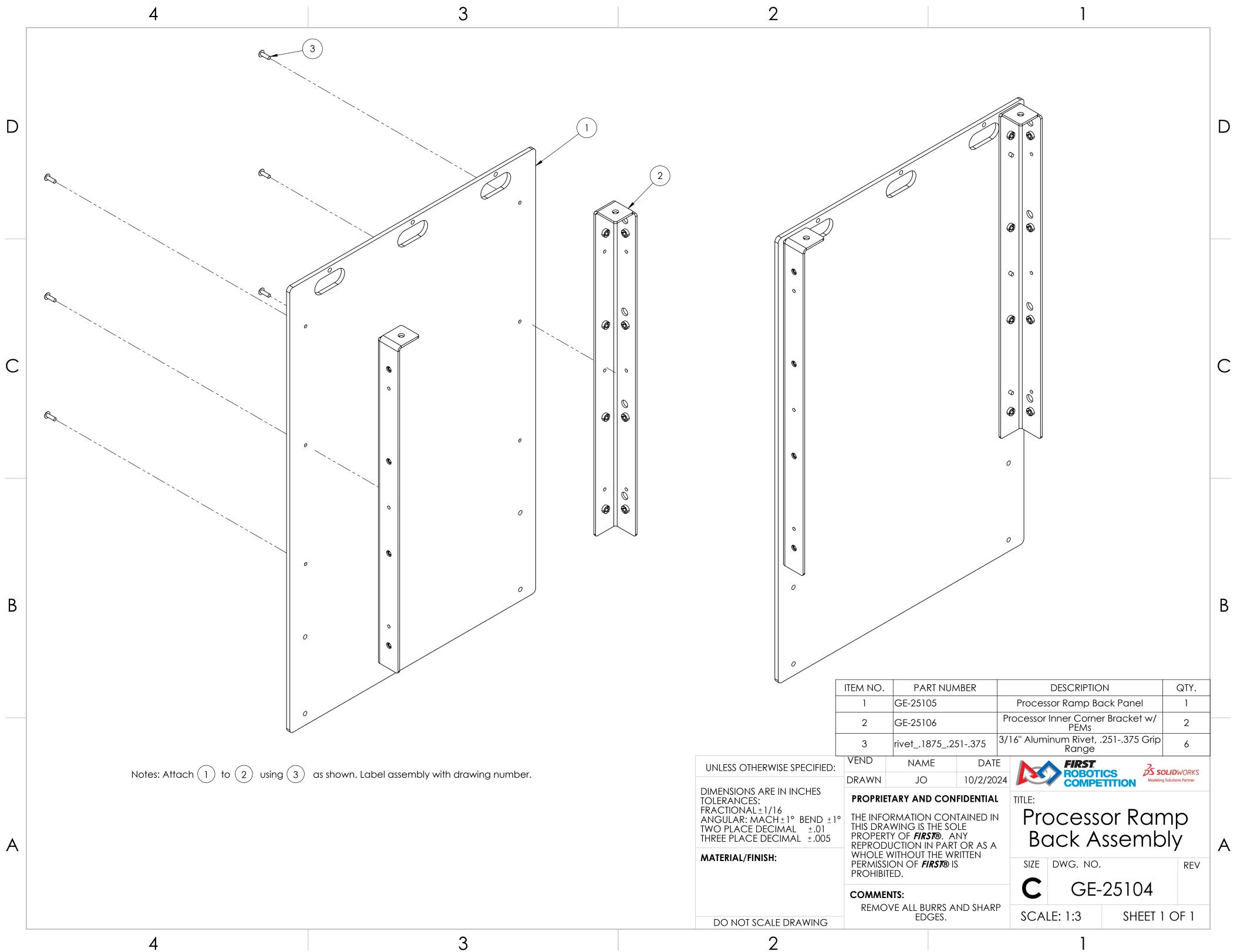
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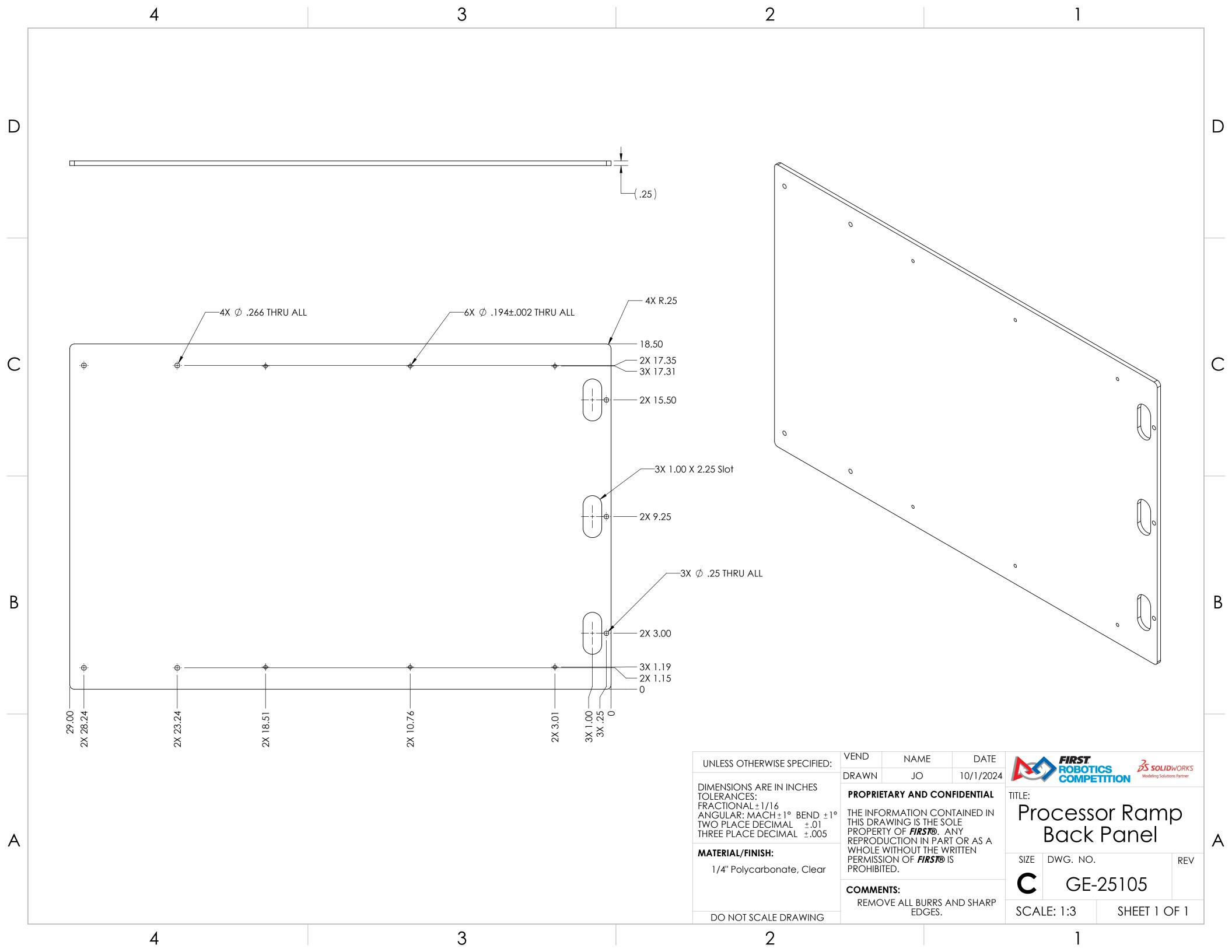


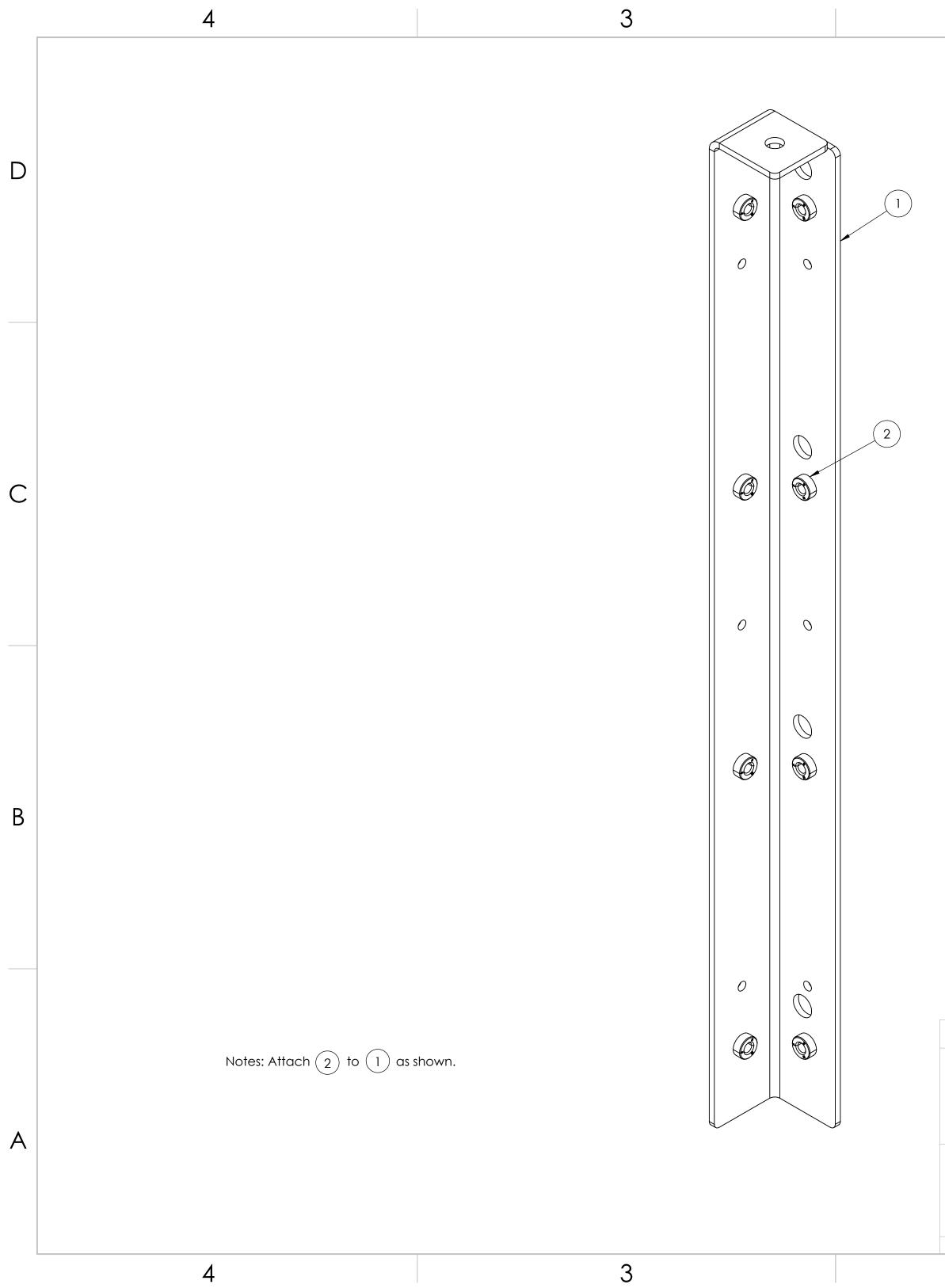
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						D	
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		PART NUME	BER	DESCRIPTION	QTY.	В	
	1 GE-	-25102-01		Processor Ramp Sheetmetal	1		
	2 per 0.5	m_clinchnut_ 54 NAME	DATE	1/4-20 self-clinching nut, .054 shank	16		
UNLESS OTHERWISE SPECIFIED:	DRAWN	JO	10/2/2024	4 FIRST. ROBOTICS COMPETITION Modeling S	LIDWORKS olutions Partner		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:							
do not scale drawing		ALL BURRS AN EDGES.	id sharp	SCALE: 1:2 SHEET 1	OF 1	-	
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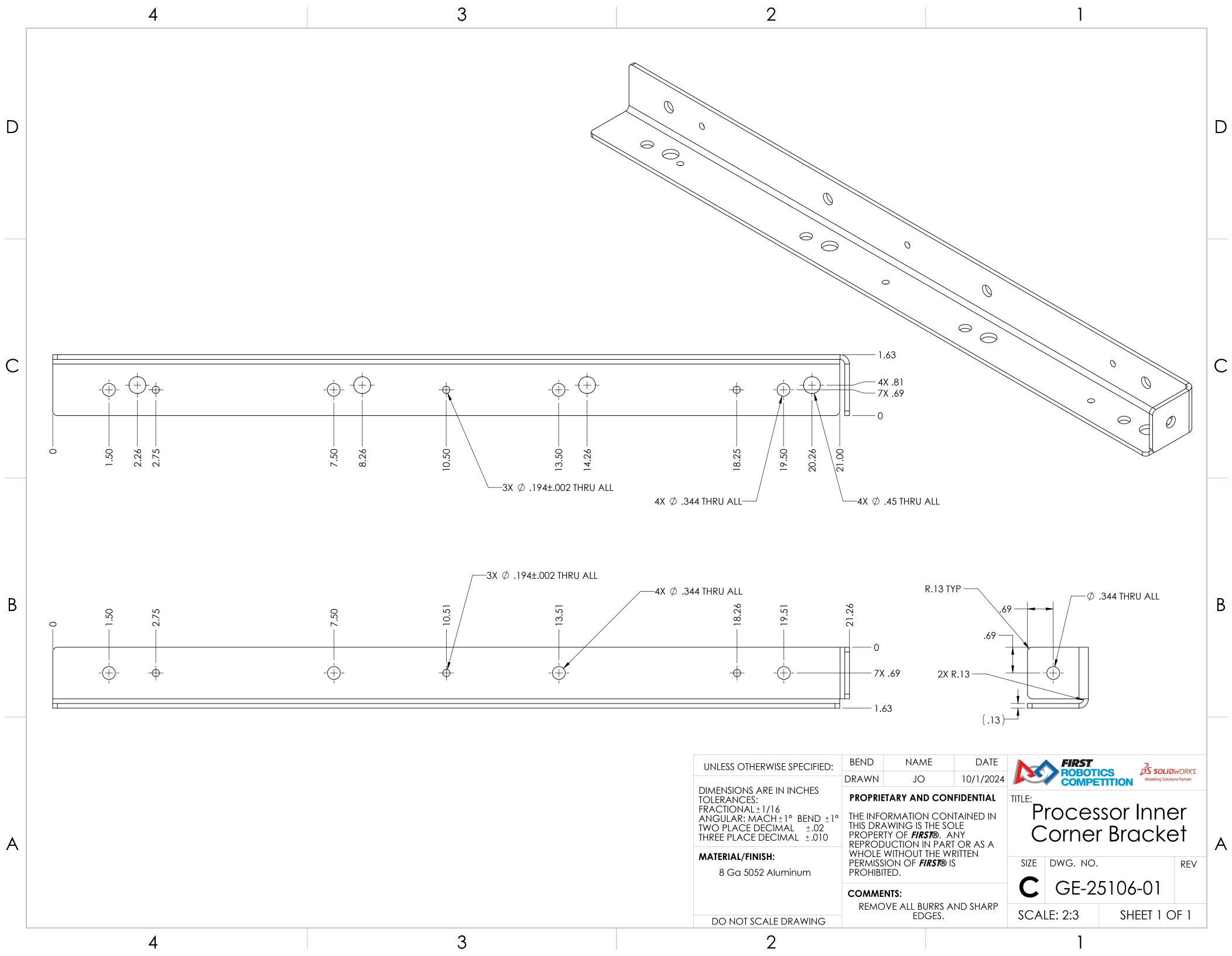


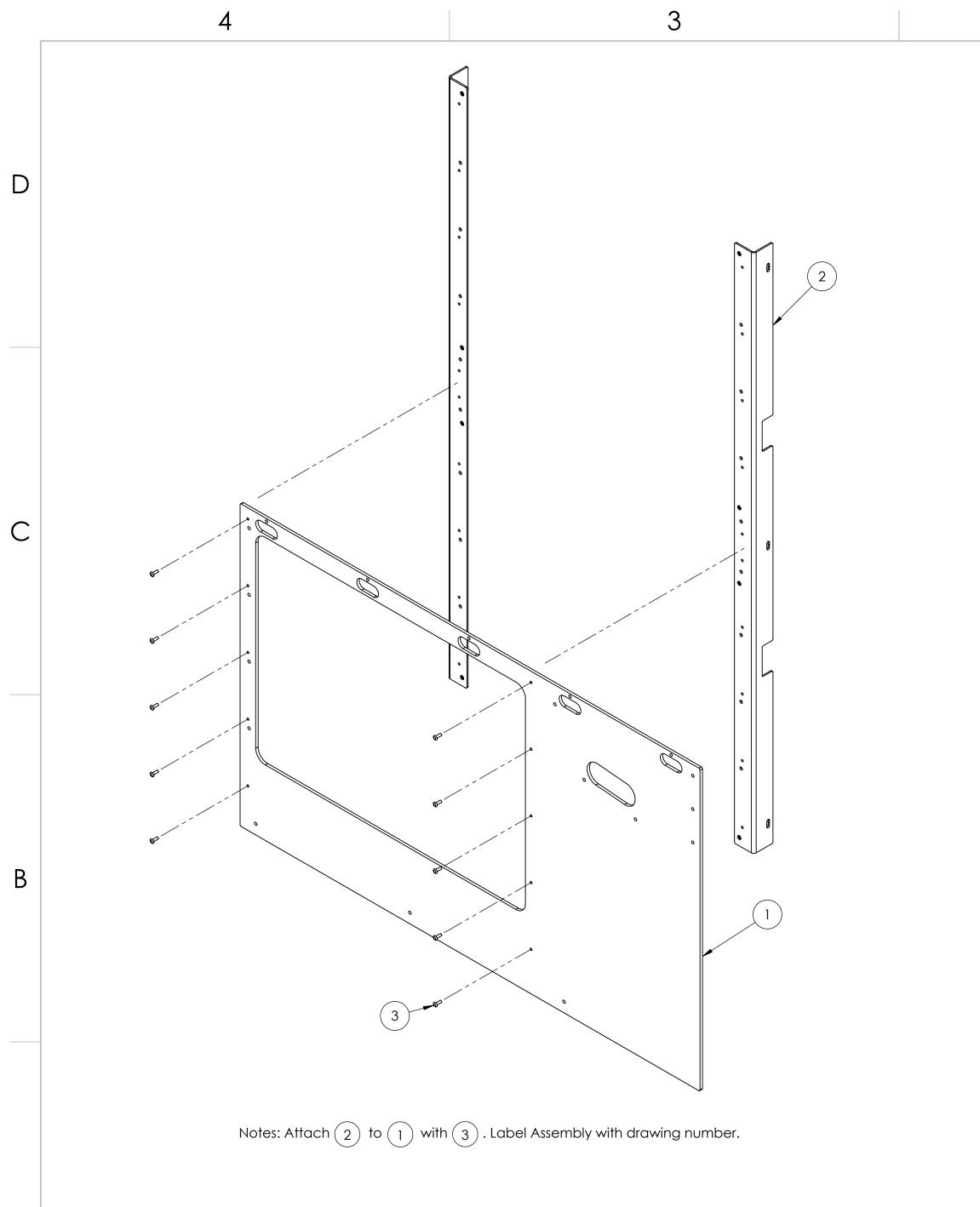
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	ITEM NO.				DESCRIPTIC	N	QTY.		
	1	GE-25106-01		Processo	or Inner Corr	ner Bracket	1		
-	2	pem_clinchnu 054	t25_20	1/4-20 self	-clinching nu	ut, .054 shank	8		
UNLESS OTHERWISE SPECIFIED	VEND	NAME	DATE		FIRST.			Ī	
	DRAWN	JO	10/2/202	24	ROBOTI		S SOLIDWORKS Modeling Solutions Partner		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	 THE INFC THIS DRA PROPER REPROD 	TARY AND CON DRMATION CON WING IS THE SO TY OF <i>FIRST</i> ®. AI UCTION IN PART WITHOUT THE WF	TAINED IN LE NY ` OR AS A	Corner Bracket			-	A	
MAIERIAL/FINISH.	PERMISSION OF FIRST® IS PROHIBITED. COMMENTS:			SIZE	DWG. NO.		REV		
				C	GE-	25106			
DO NOT SCALE DRAWING	KEMO	REMOVE ALL BURRS AND SHAF EDGES.			SCALE: 3:4 SHEET 1		OF 1		

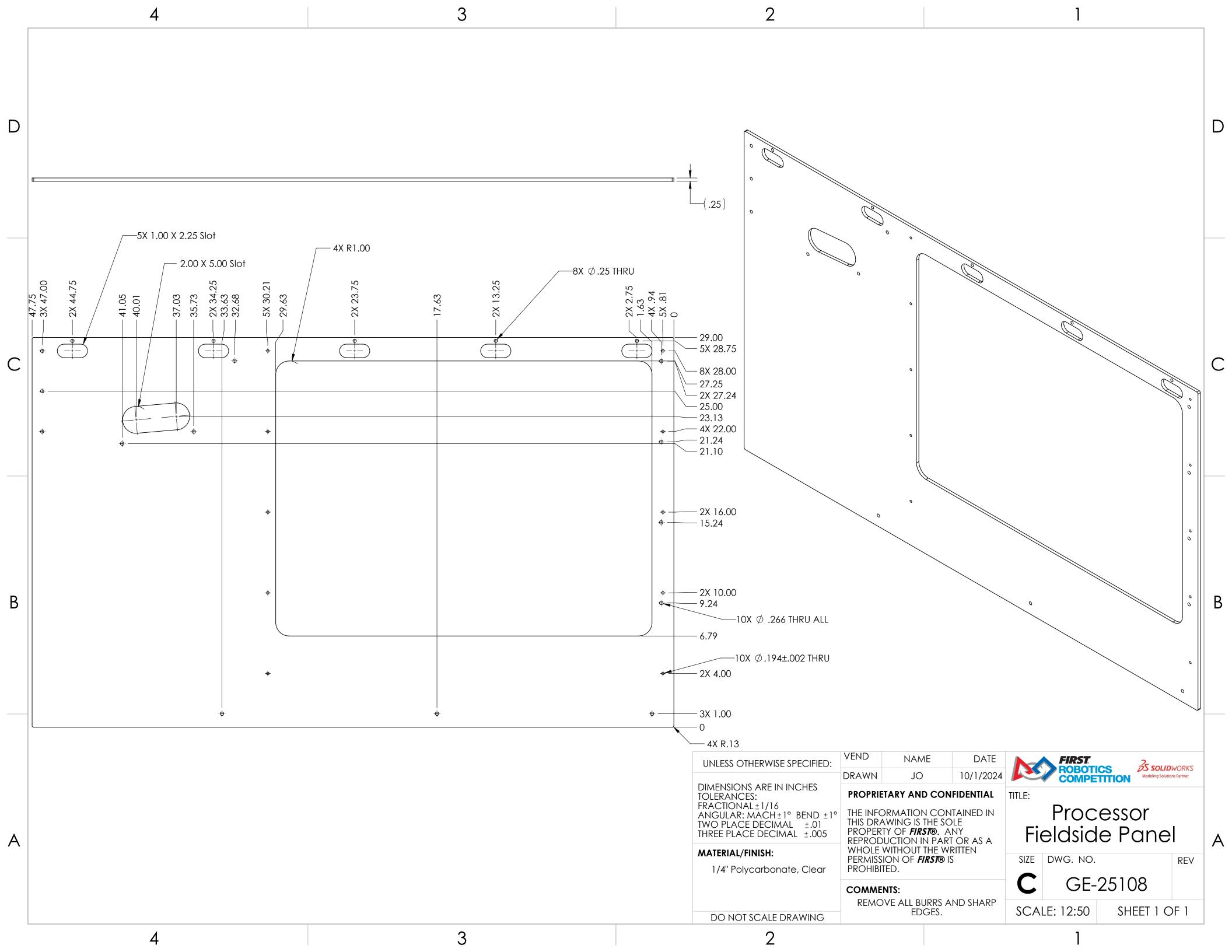
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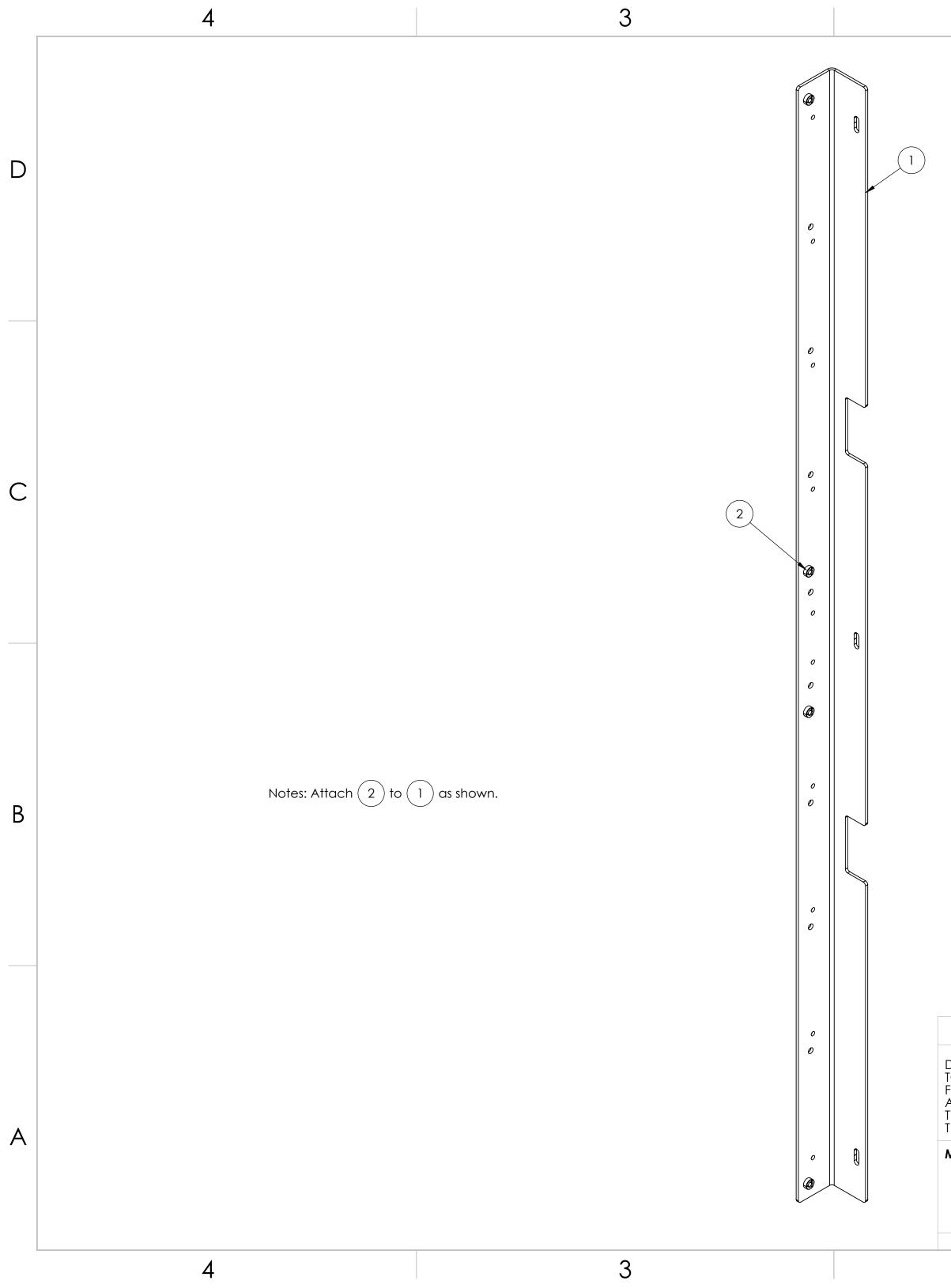




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	ITEM NO. PA	RT NUMBER	° °	QTY.				
_	1 GE-251 2 GE-251	08	Processor Fieldside Panel Upright Sheetmetal w/ PEMs	1				
_	3 rivet1		3/16" Aluminum Rivet, .251375 Grip Range	10				
UNLESS OTHERWISE SPECIFIED:	VEND NAM DRAWN JO			DLIDWORKS g Solutions Partner				
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	PROPRIETARY AN THE INFORMATION THIS DRAWING IS PROPERTY OF FIR REPRODUCTION I WHOLE WITHOUT PERMISSION OF F PROHIBITED.	N CONTAINED IN THE SOLE ST® . ANY N PART OR AS A THE WRITTEN	Fieldside Assembly SIZE DWG. NO.	REV				
		urrs and sharf Ges.	SCALE: 1:6 SHEET 1					
DO NOT SCALE DRAWING	ED		1 JUNEL 1.0 JULE					
–		1	·					



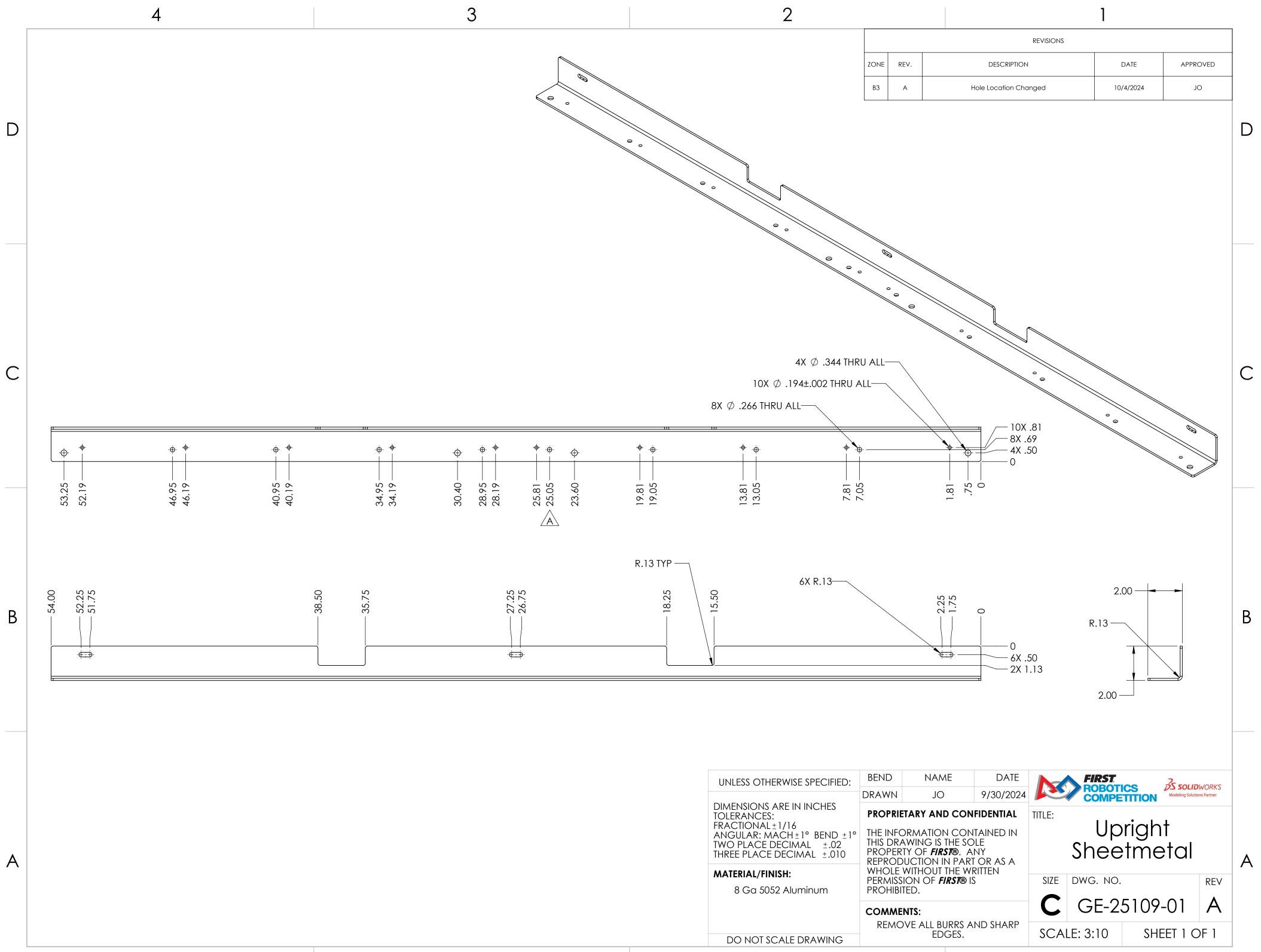


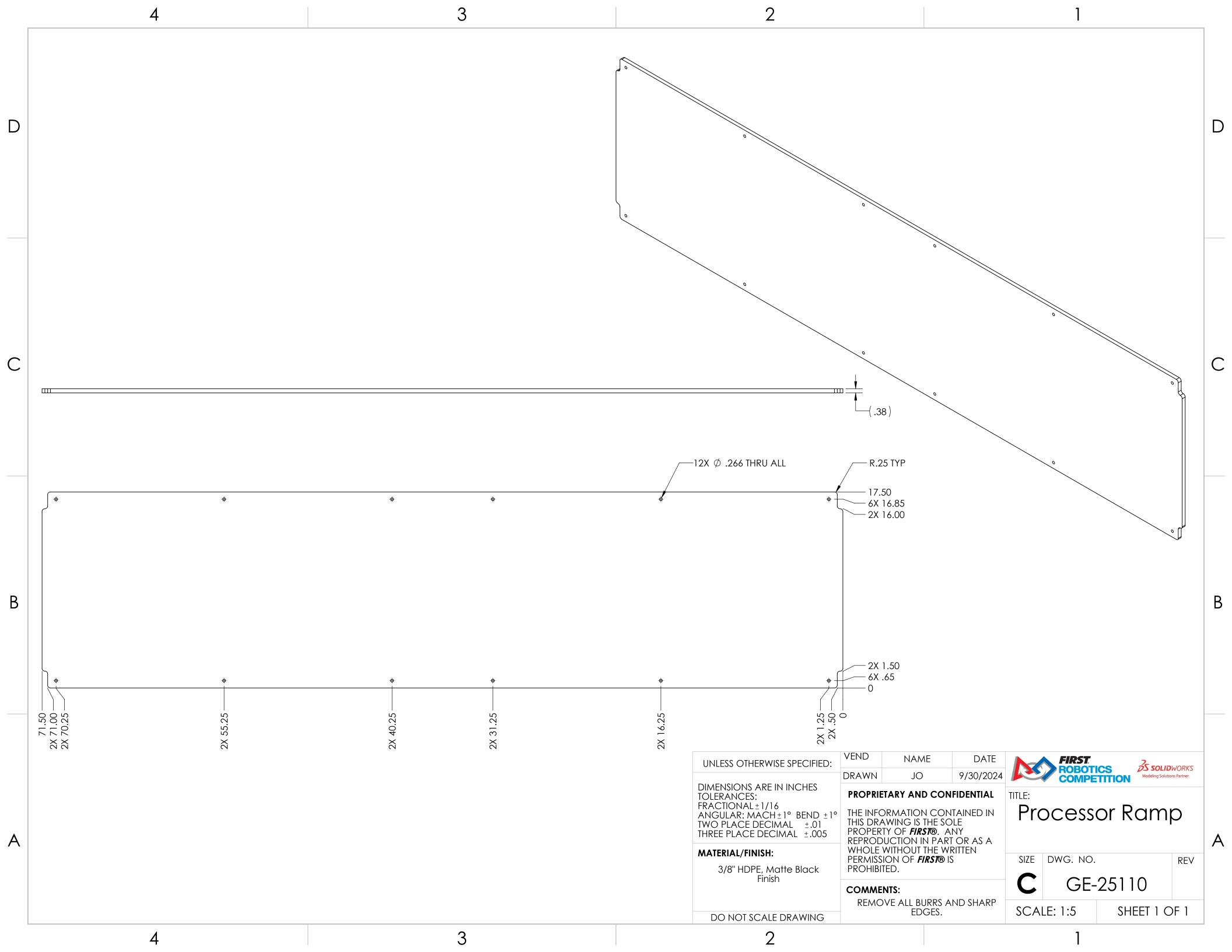
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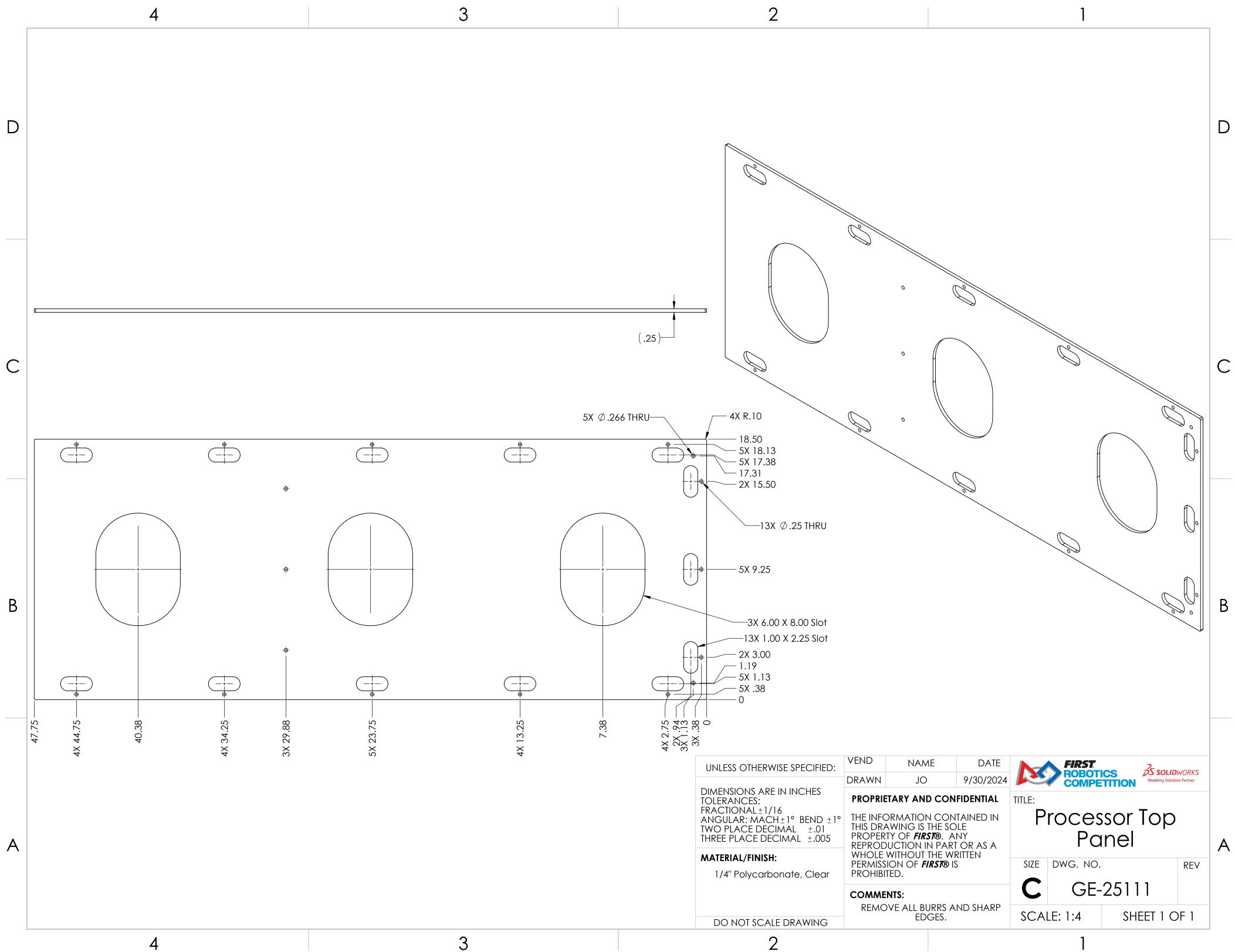
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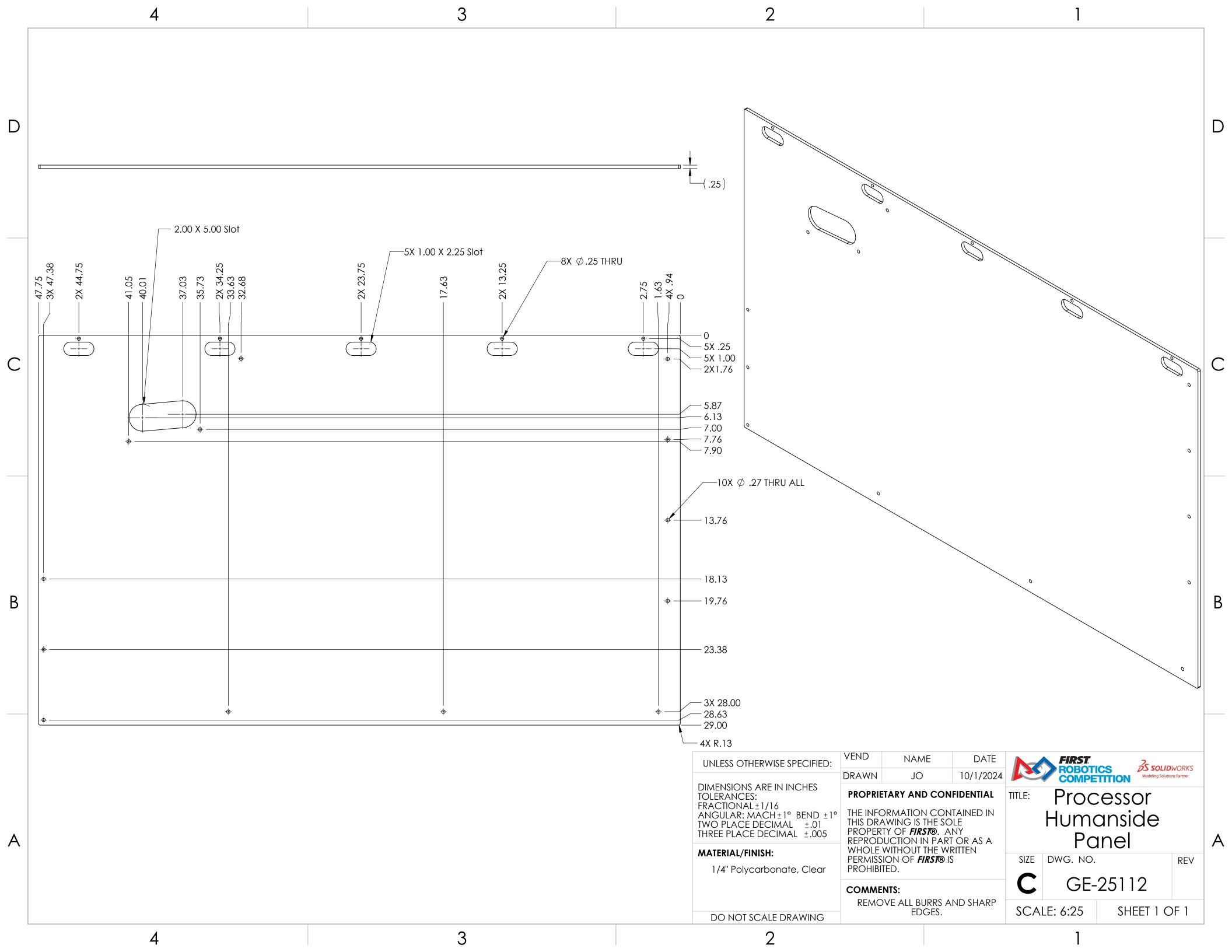
	ITEM NO.	PART NUMBER			DESCRIPTIO	Ν	QTY.	
-	1	GE-25109-01		Up	oright Sheetn	netal	1	
-	2	pem_clinchnu [.] 054	t25_20	1/4-20 self	-clinching nu	ut, .054 shank	4	
UNLESS OTHERWISE SPECIFIED	VEND	END NAME DATE			FIRST	25	OLID WORKS	1
	DRAWN	JO	10/2/20				g Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A UCTION IN PART WITHOUT THE WF	TAINED IN DLE NY OR AS A	Sł	Upright Sheetmetal w/ PEMs			
MATERIAL/FINISH:		ION OF FIRST ® IS		SIZE	DWG. NO.	05100	REV	
		COMMENTS:			GE-	25109		
do not scale drawing	REMO	VE ALL BURRS A EDGES.	ND SHARI	SCA	SCALE: 1:3 SHEET 1 C		1 OF 1	

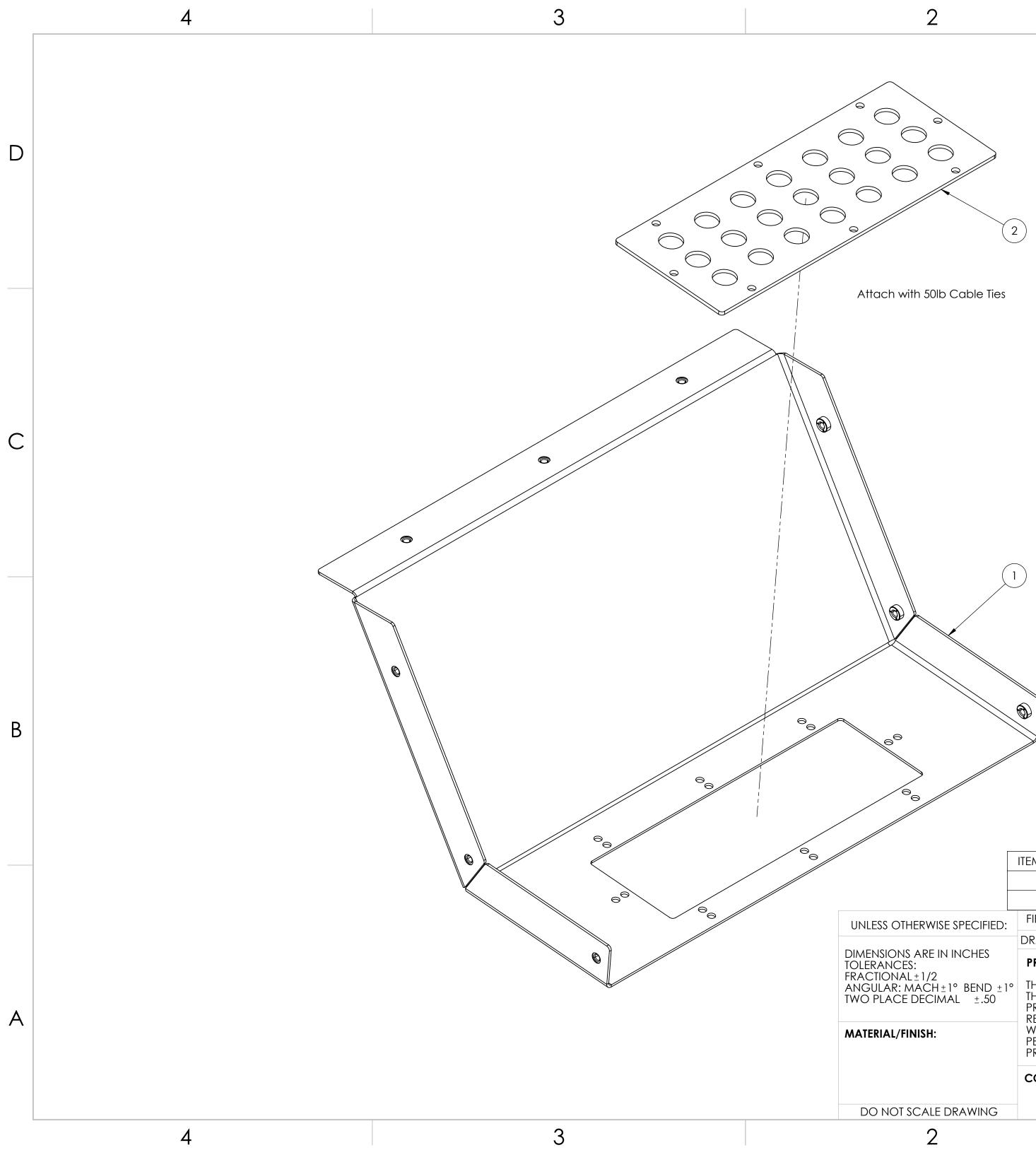
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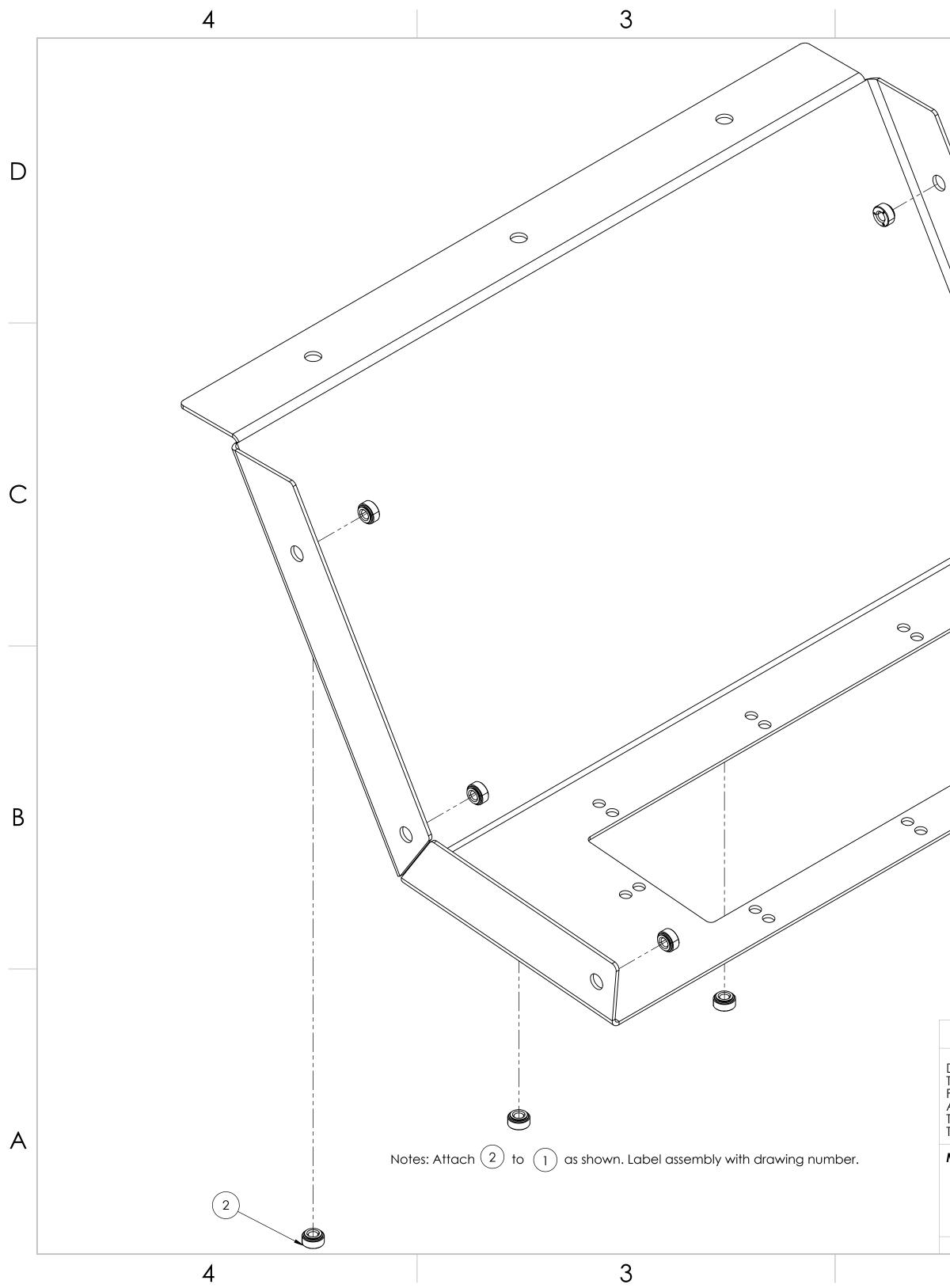


	ITEM NO.	PART NUA	∕BER		DESCRIPTIO	N		QTY.	
-	1	GE-25114			Sensor Mou	nt		1	
-	2	GE-25115		Prod	cessor Senso	r Plate		1	
UNLESS OTHERWISE SPECIFIED:	FIELD	NAME	DATE		25 5011	OLID WORKS			
	DRAWN	JO	12/6/202	24	ROBOTI COMPE		Modeling Soluti		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/2 ANGULAR: MACH±1° BEND±1' TWO PLACE DECIMAL ±.50 MATERIAL/FINISH:	THE INFO THIS DRA PROPER REPROD WHOLE	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS			TITLE: Sensor Assembly			REV	F
	COMME	PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP		C	GE-25113			-	
DO NOT SCALE DRAWING		EDGES.			SCALE: 1:2 SHEET 1		EET 1 C	DF 1	
2					1				

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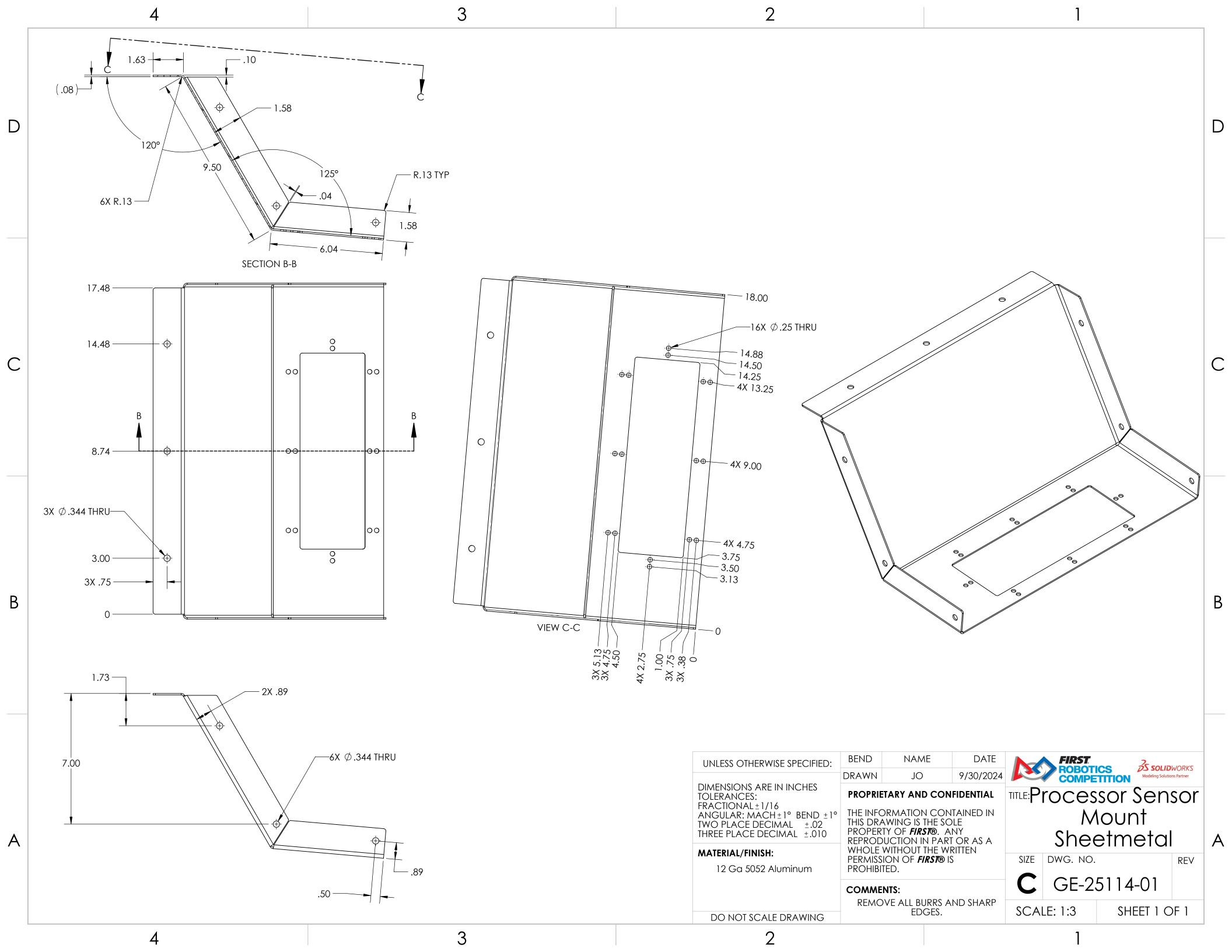
	ITEM NO. 1 2 VEND	nom clinchout 25.20		1/4-20 self	N t Sheetmetal ut, .054 shank	QTY. 1 9	
UNLESS OTHERWISE SPECIFIED:	DRAWN				FIRST ROBOT		LIDWORKS iolutions Partner
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	 THE INFO THIS DRA PROPER REPROD WHOLE 	PROPRIETARY AND CONFIDENTI THE INFORMATION CONTAINED THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS WHOLE WITHOUT THE WRITTEN			Sensor Mount		
		NTS:		SIZE	dwg. no. GE-	25114	REV
do not scale drawing	REMC	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 2:3 SHEET 1		OF 1
2					1		

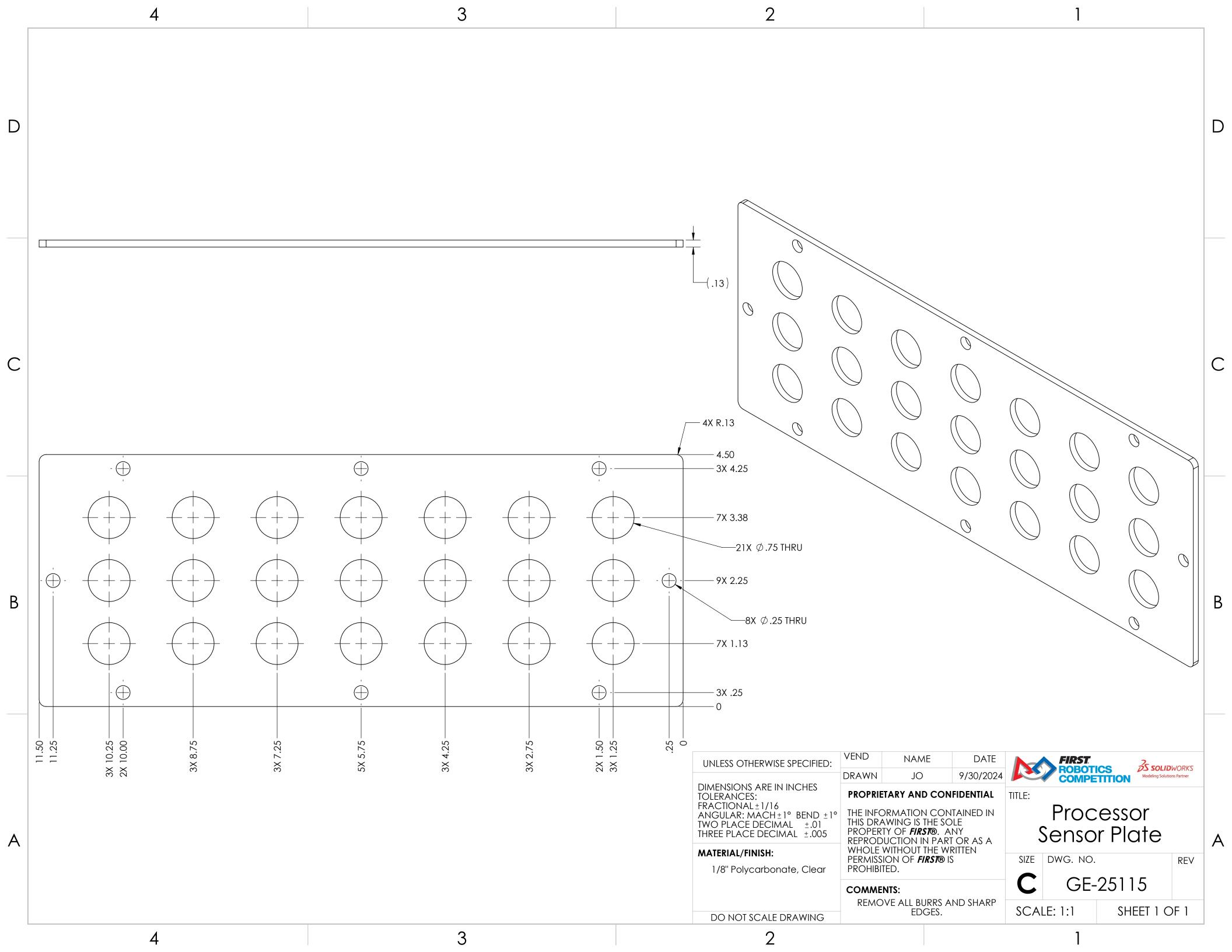
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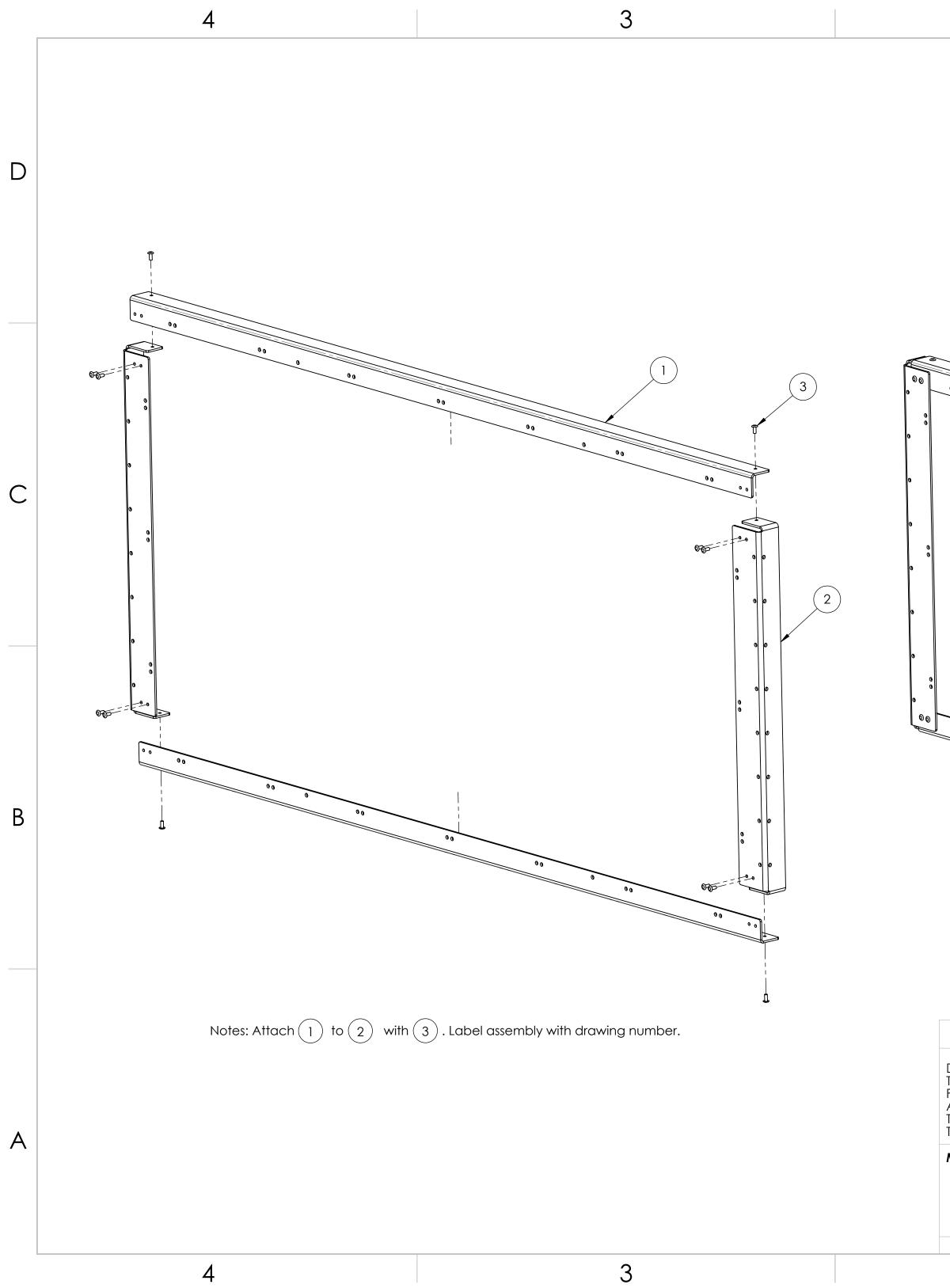
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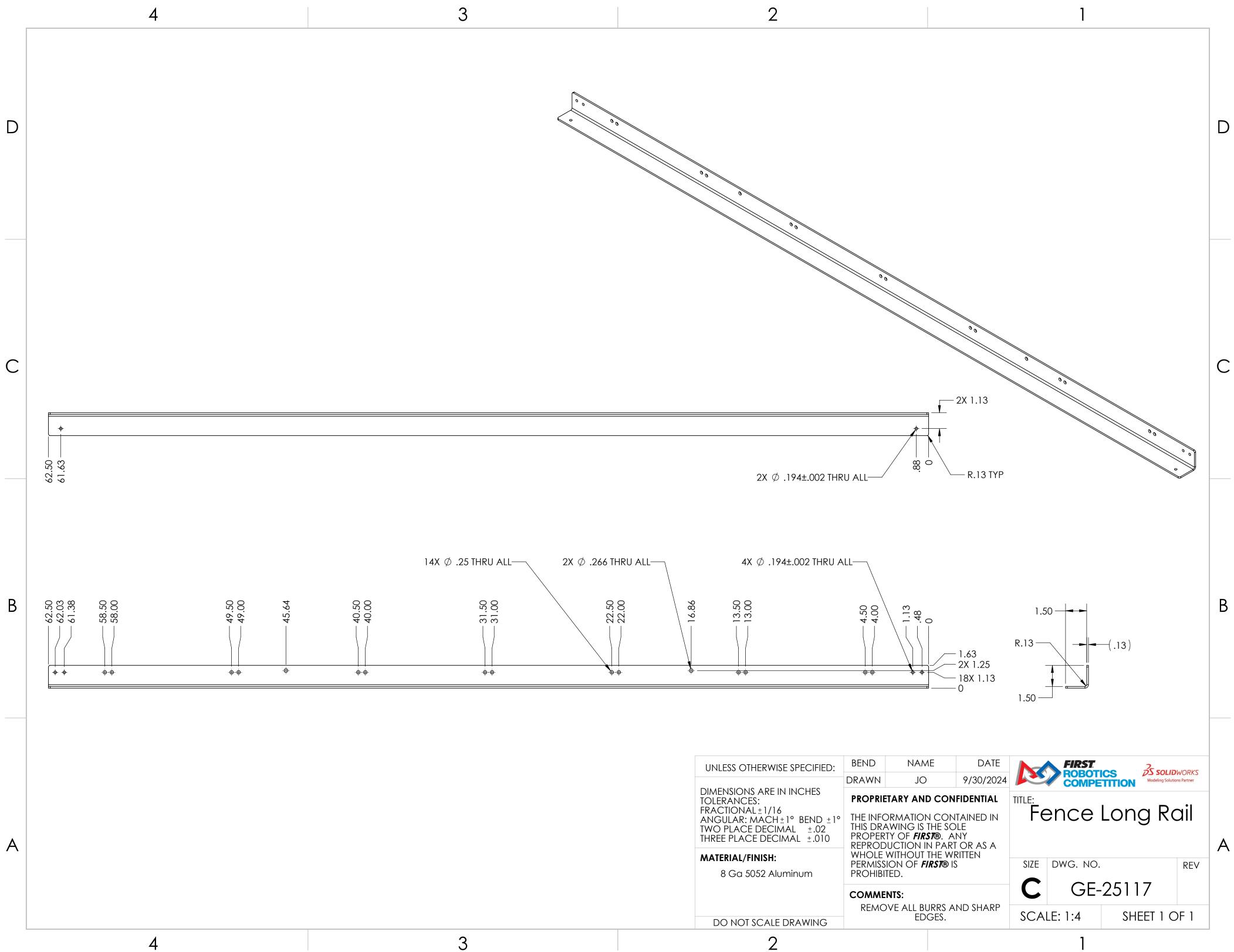
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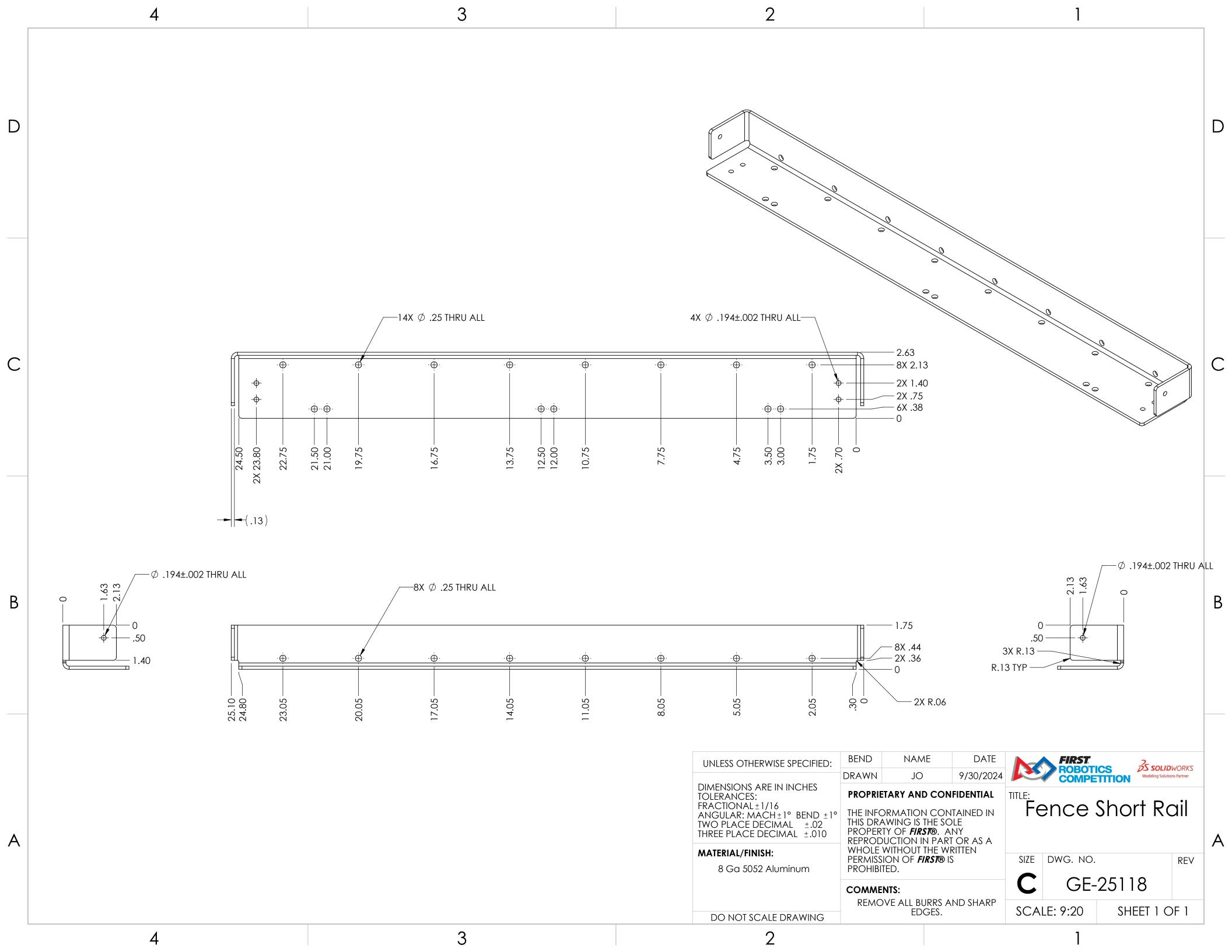


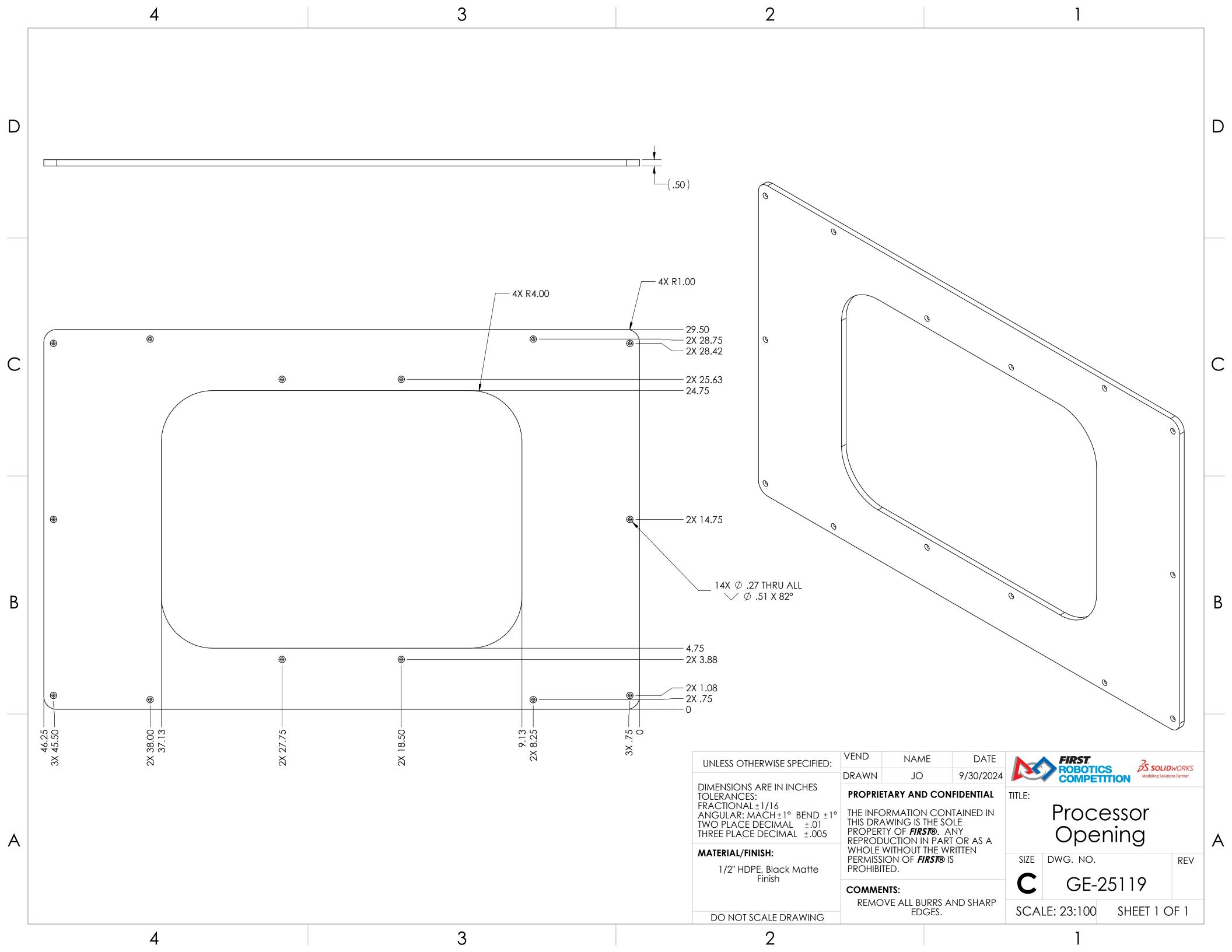


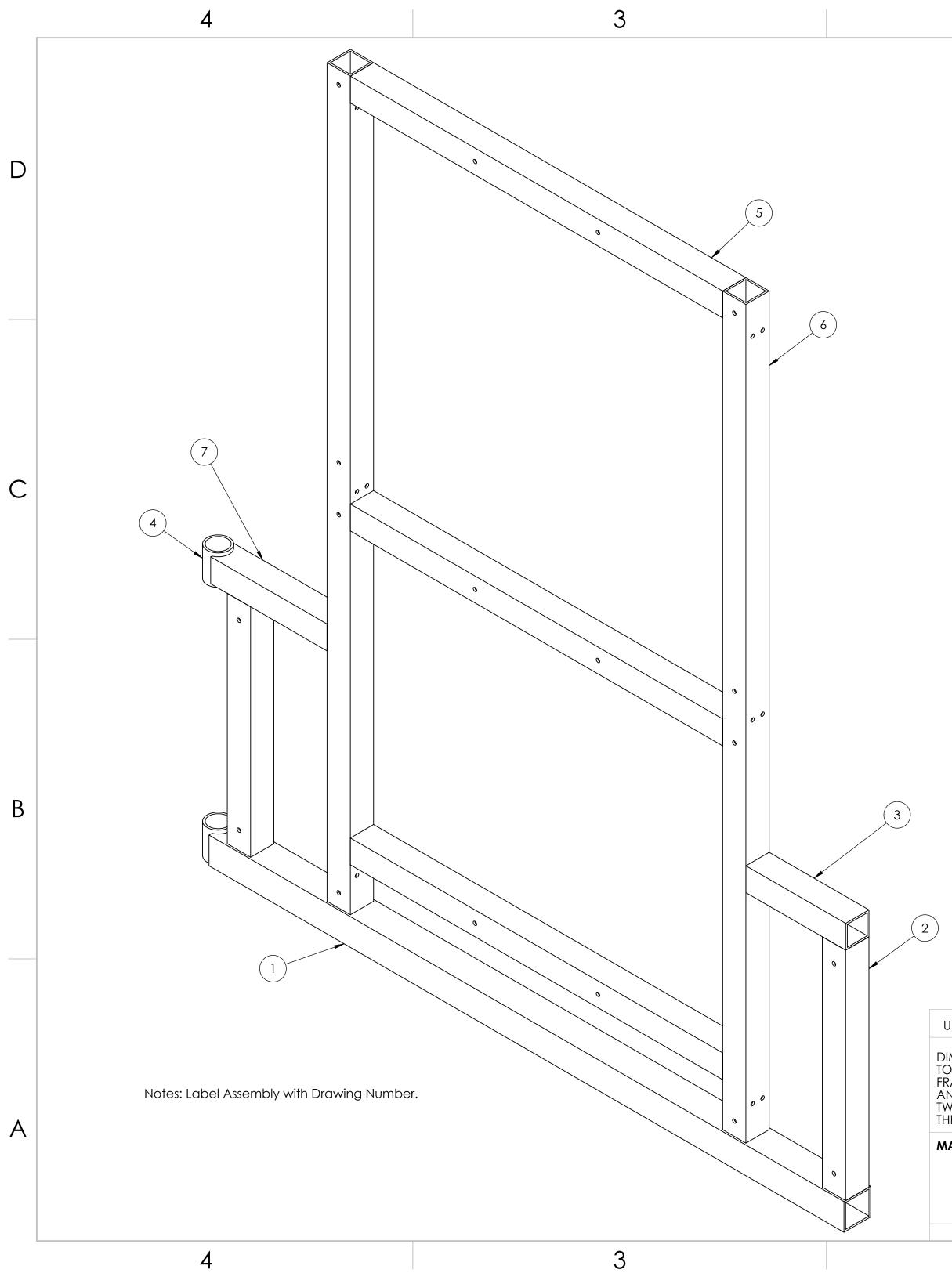


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000000000000000000000000000000000000000	ITEM NO.	° • PART NUM	● 0 MBER	9 0 0 0 0	ο φ ο φ	В
	1 2 3 VEND	GE-25117 GE-25118 rivet187511		Fence Long Rail Fence Short Rail 3/16" Rivet, .12625 Grip Rang	2 2 ge 12	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	 DRAWN PROPRIET THE INFORT THIS DRAN PROPERT REPRODU WHOLE W PERMISSIC PROHIBITE COMMEN 	I TS: /E ALL BURRS A	ITAINED IN DLE NY T OR AS A RITTEN S	4 Fence Fra SIZE DWG. NO. GE-2511	REV /	A
DO NOT SCALE DRAWING		EDGES.		SCALE: 1:5 SH	EET 1 OF 1	
2				1		







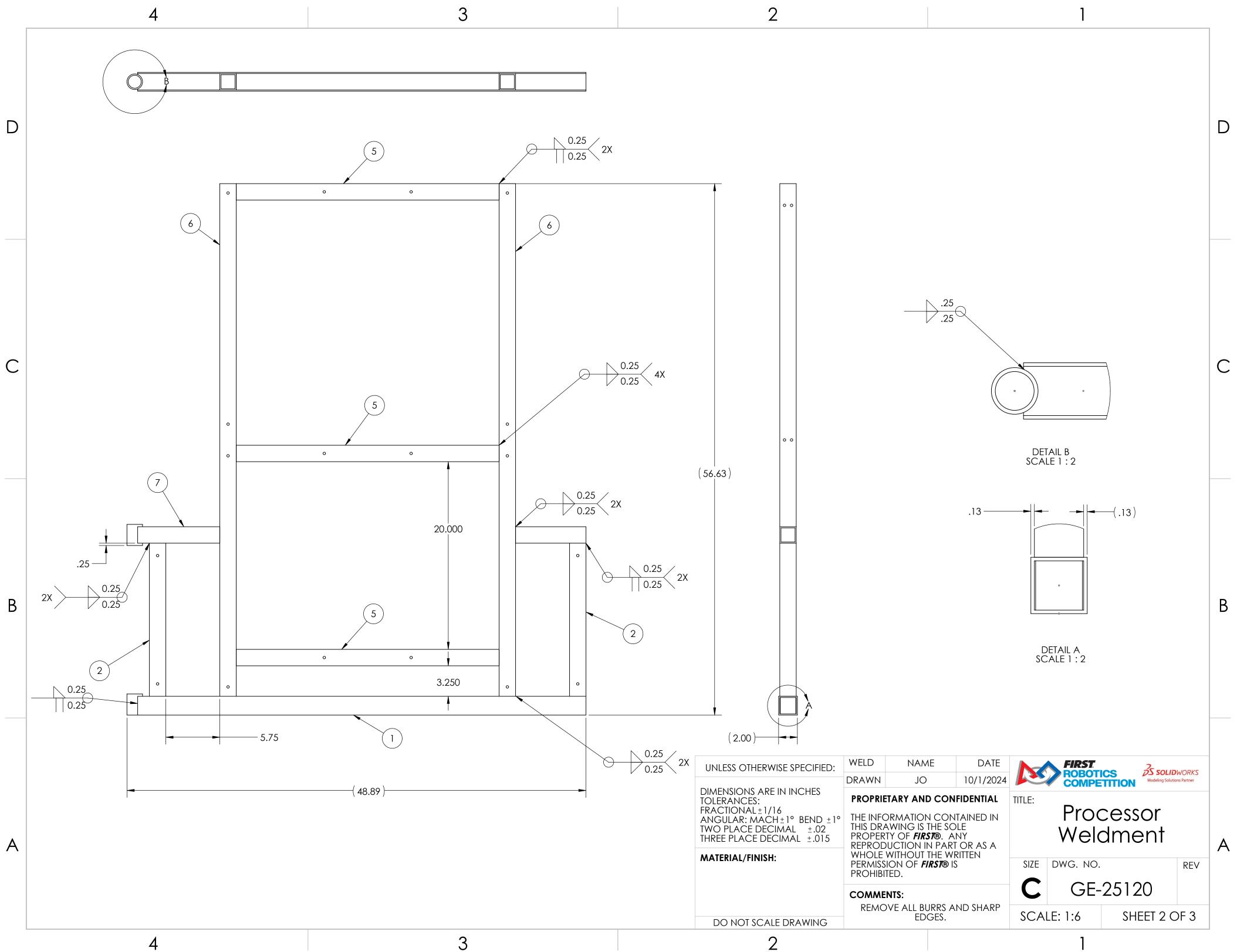


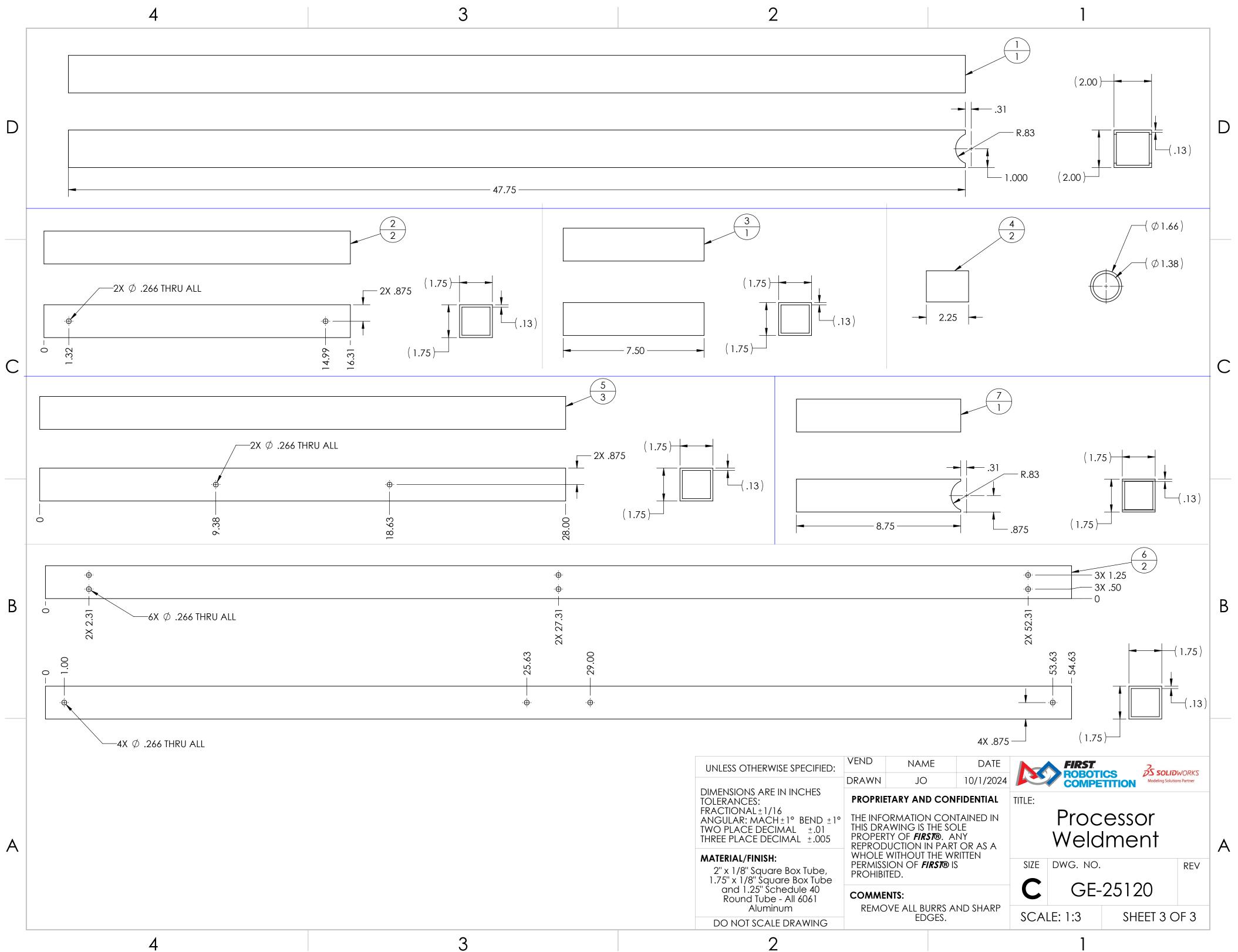
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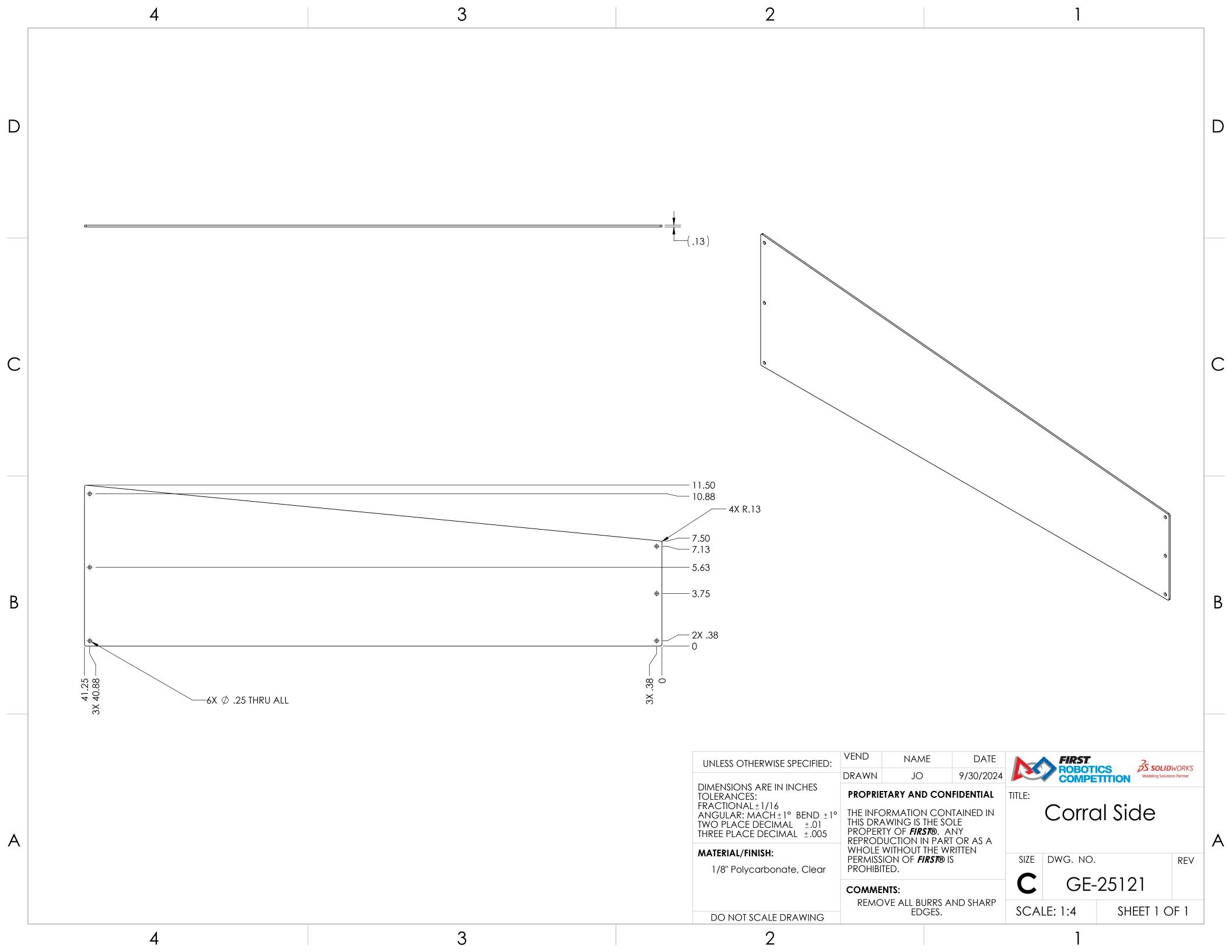
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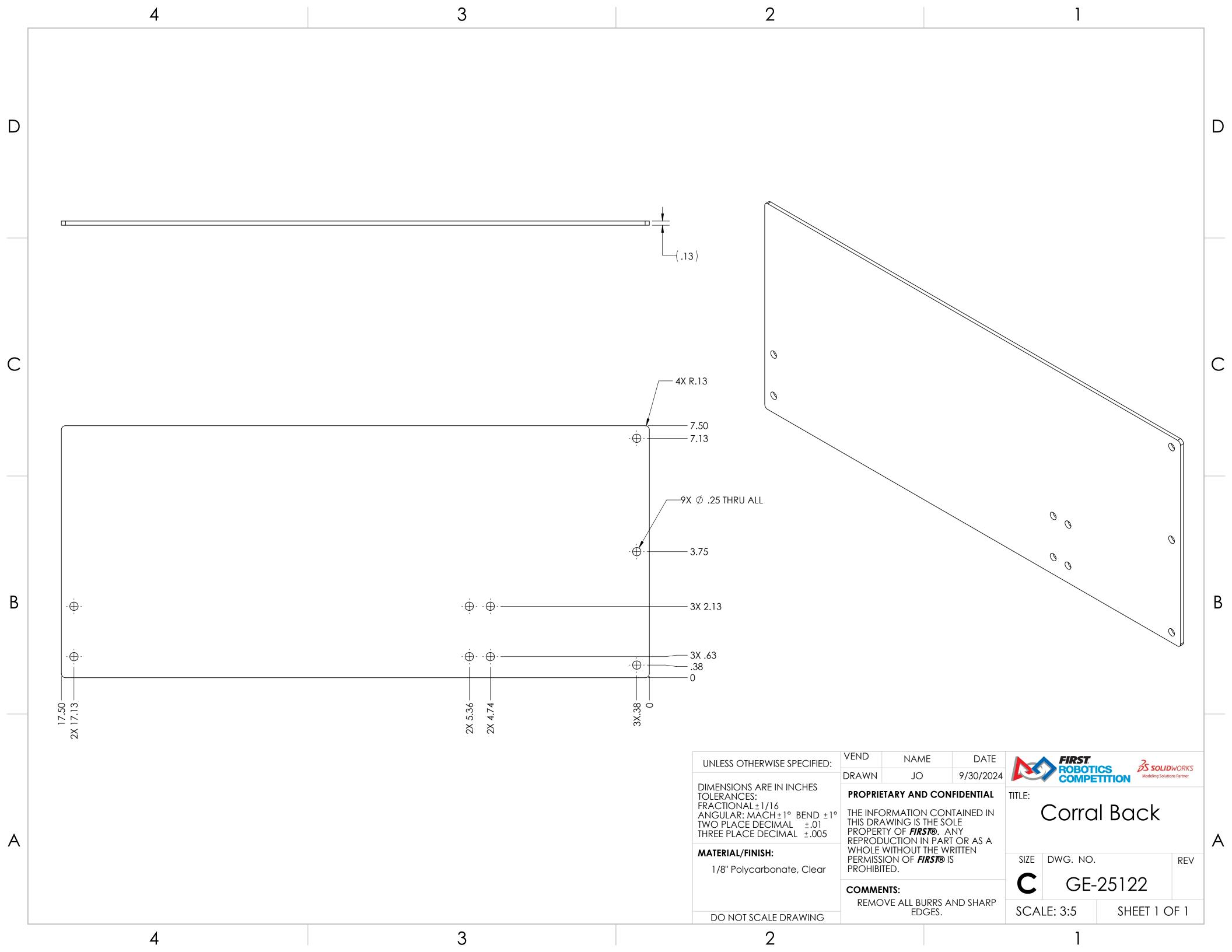
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	ITEM NO.	PART NUM	∕BER		DESCRIPTIO	N	(QTY.	
	1	GE-25120-01			Floor Bean	า		1	
	2	GE-25120-02		Sh	ort Height B	eam		2	
	3	GE-25120-03		Femo	ale Connect	or Tube		1	
	4	GE-25120-04		Pin	Connecter	Tube		2	
	5	GE-25120-05			Crossbar			3	
-	6	GE-25120-06		F	ull Height Be	am		2	
-	7	GE-25120-07		Pin C	onnector Ho	prizontal		1	
UNLESS OTHERWISE SPECIFIED:	WELD	NAME	DATE		FIRST.		SOLIDI		
	DRAWN	JO	10/1/202				eling Solution		
DIMENSIONS ARE IN INCHES OLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 WO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.015	 THE INFC THIS DRA PROPERT 	TARY AND CON DRMATION CON WING IS THE SC IY OF <i>FIRST</i> ®. A	TITLE:	Processor Weldment				A	
MATERIAL/FINISH:	WHOLE PERMISS	REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.			REV	
	COMME			C	GE-	25120			
DO NOT SCALE DRAWING	REMO	VE ALL BURRS A EDGES.	ND SHARF	SCA	SCALE: 1:4 SHEET 1 C			F 3	
									-



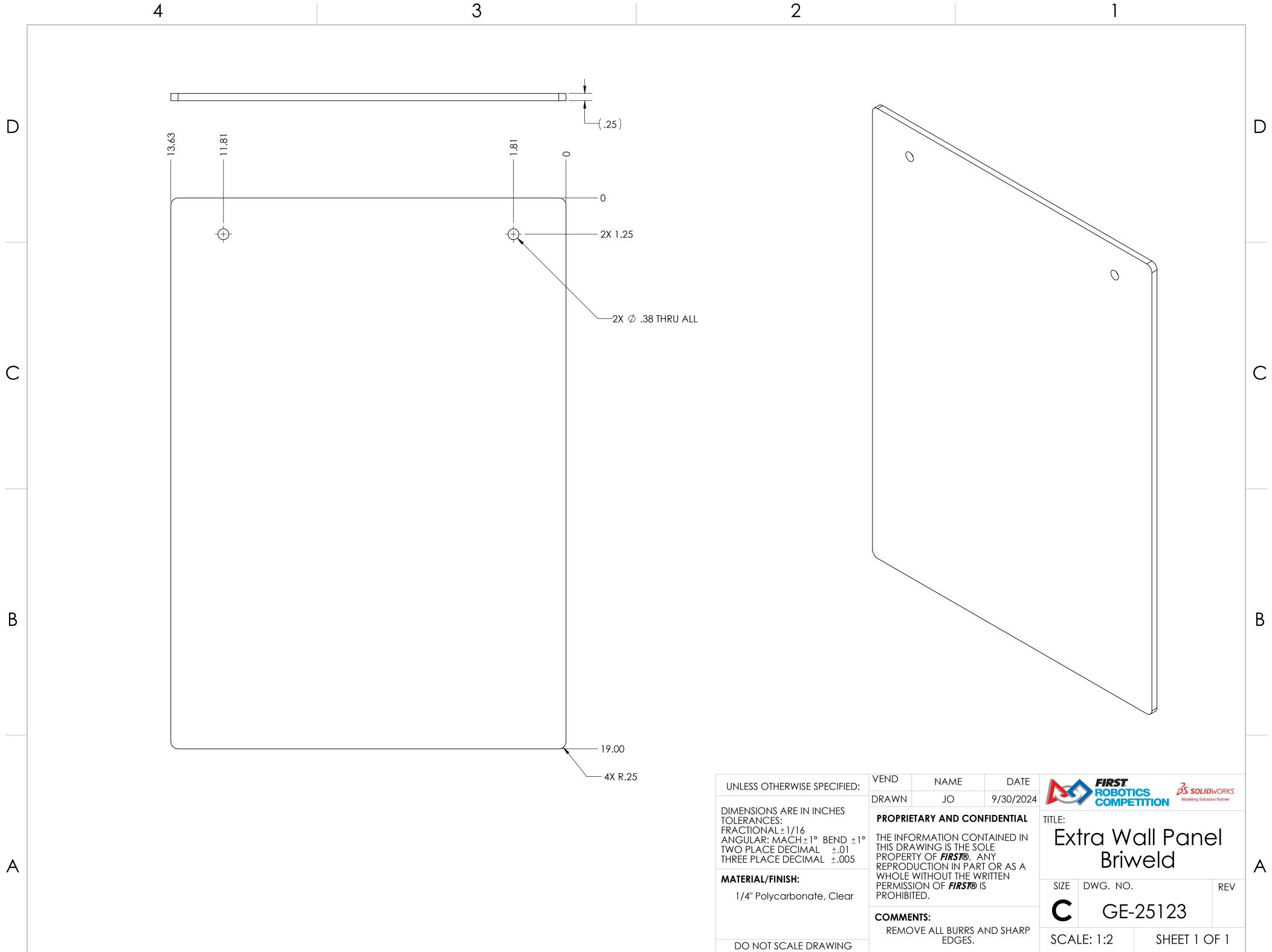






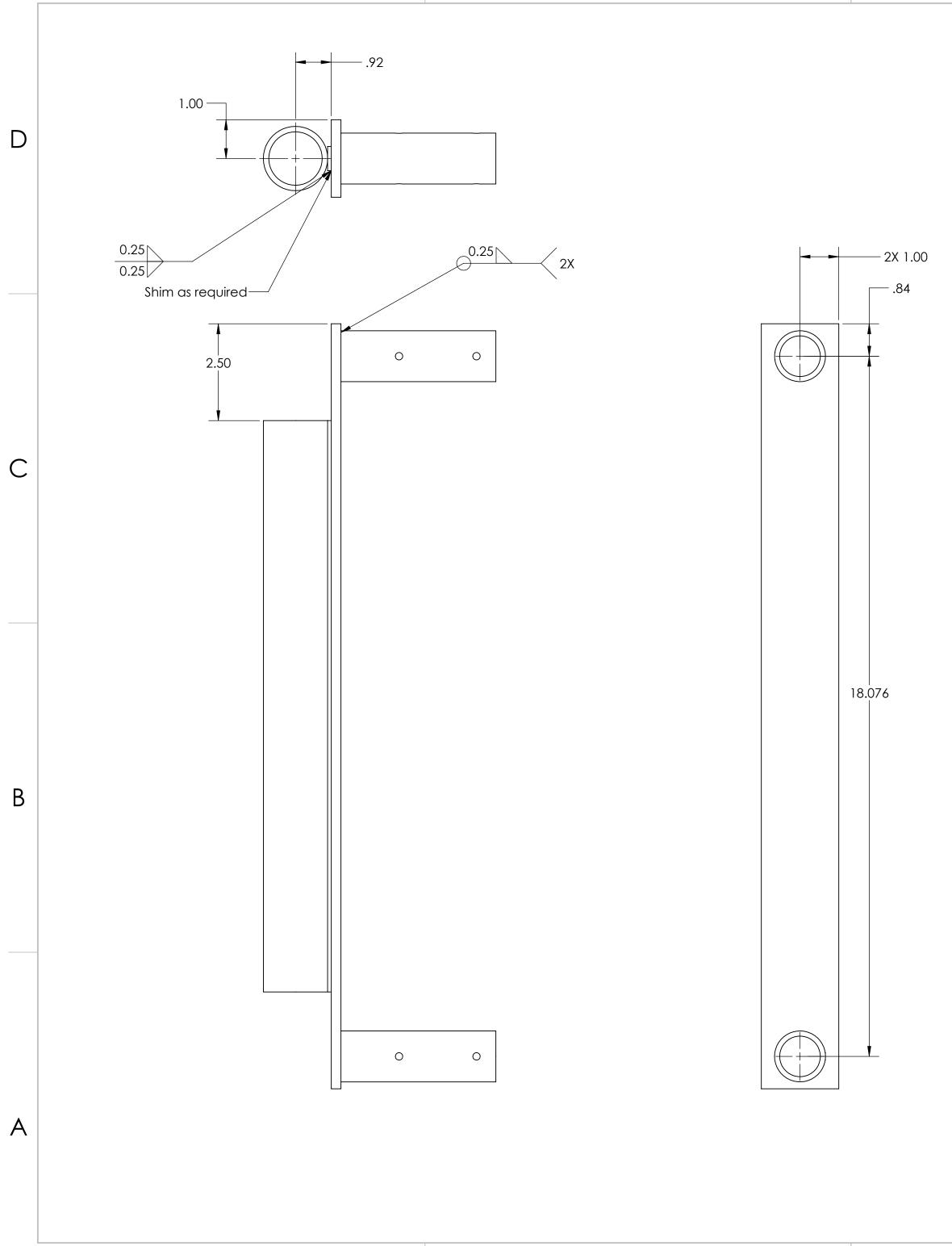




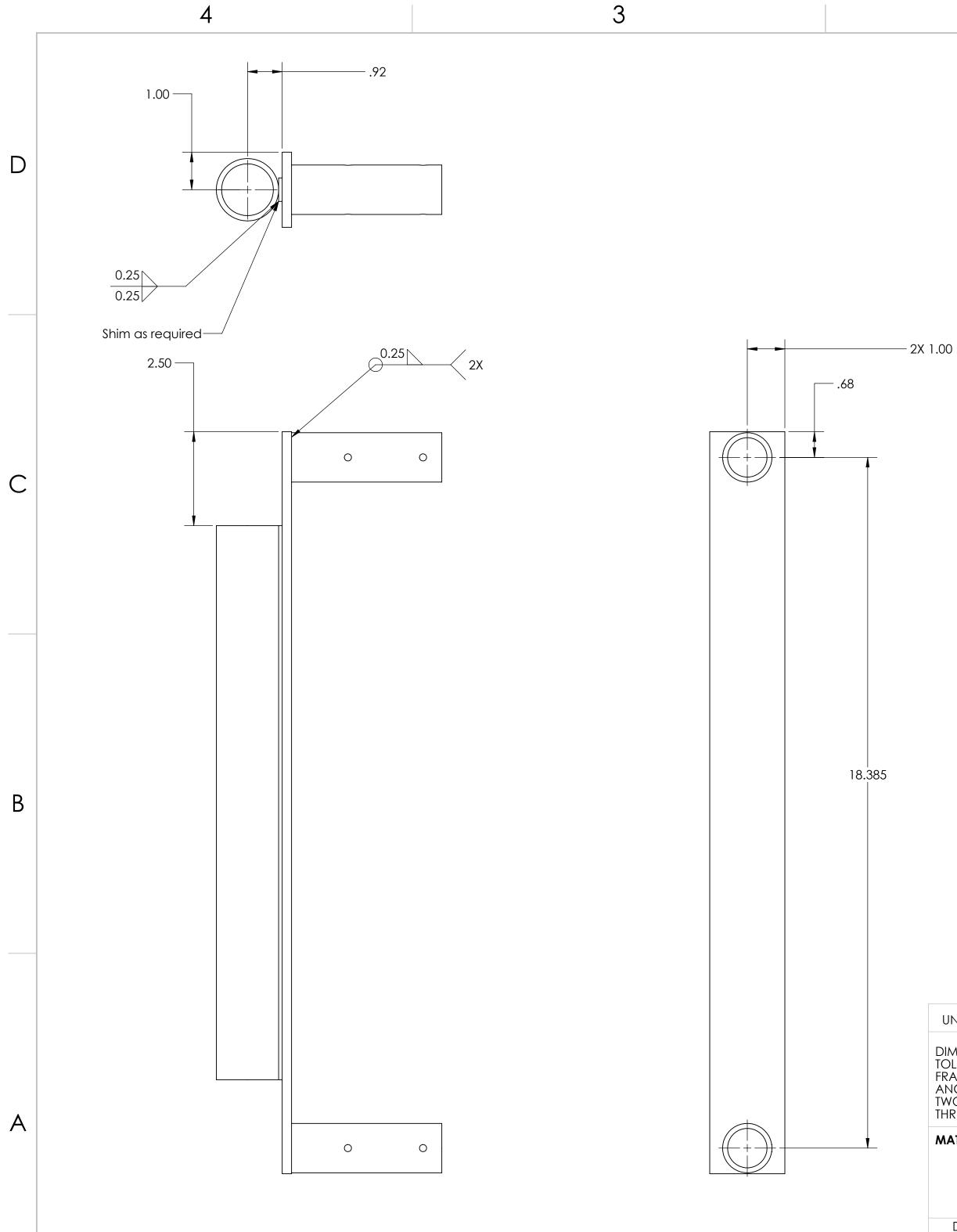


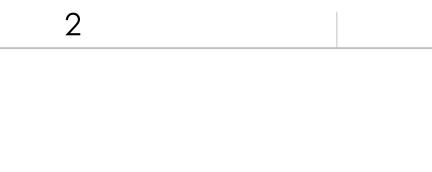


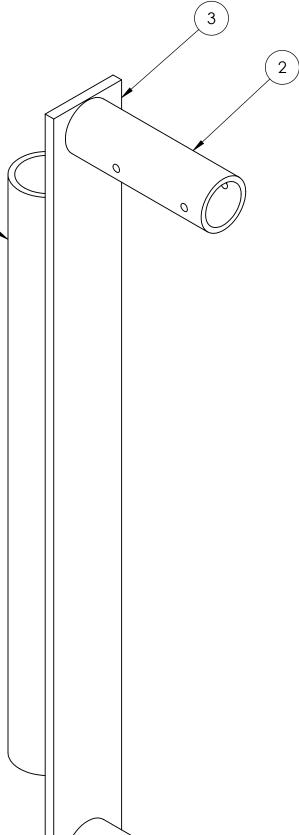




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						REVISIONS				
	ZONE	REV.			DESCRIP	ION		DATE	APPROVED	-
	A2, C1, C2, D1	A		Added mi	ssing BOM to	able and balloons	1	0/7/2024	JO	-
	C2, D1									
						0	0	2) Â		D
			1				3			С
						0	0			В
	ITEM N	О.	PAR	TNUM	BER		DESCRIPTIO		QTY.	
	1	FE	-00018	8-01		A	Schedule 4 Juminum F	Pipe	1	
	2	FE	-00018	8-02		1" Schedul	le 40 6061- Pipe	T6 Aluminu	^{im} 2	
	3		E-2512				er Connec		1	
UNLESS OTHERWISE SPECIFIED:	WELD DRAW		NAMI JO	±	DATI 10/3/20		FIRST. ROBOT	rics 🔰	S SOLIDWORKS	
DIMENSIONS ARE IN INCHES TOLERANCES:				CONF	IDENTIAL		COMP	ETITION		_
FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1°	THE IN	VFORM		CONT	AINED IN		_	essor		
TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.015	THIS E PROF	orawii Yerty C	ng is t Df firs	he sol 7 ®. An	.E IY					•
MATERIAL/FINISH:	REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN Briweid Field								A	
		HBITED.		131 ® 15		SIZE	DWG. NC		REV	
		MENTS				C	GE	-2512	4 A	
	RE <i>l</i>	MOVE	ALL BU EDC		ID SHARI	SCAL	E: 1:2	SHE	et 1 of 1	-
DO NOT SCALE DRAWING							1			







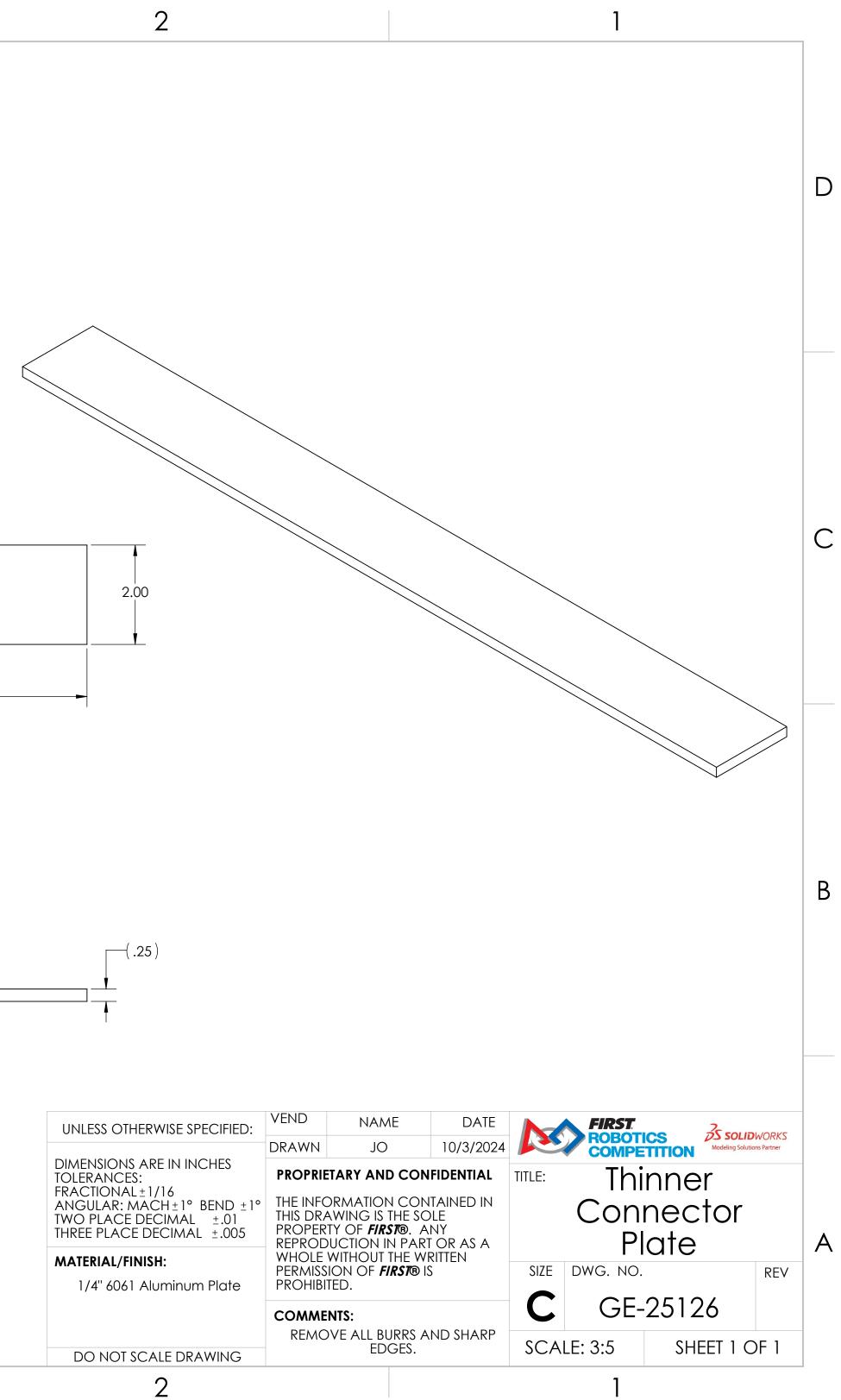
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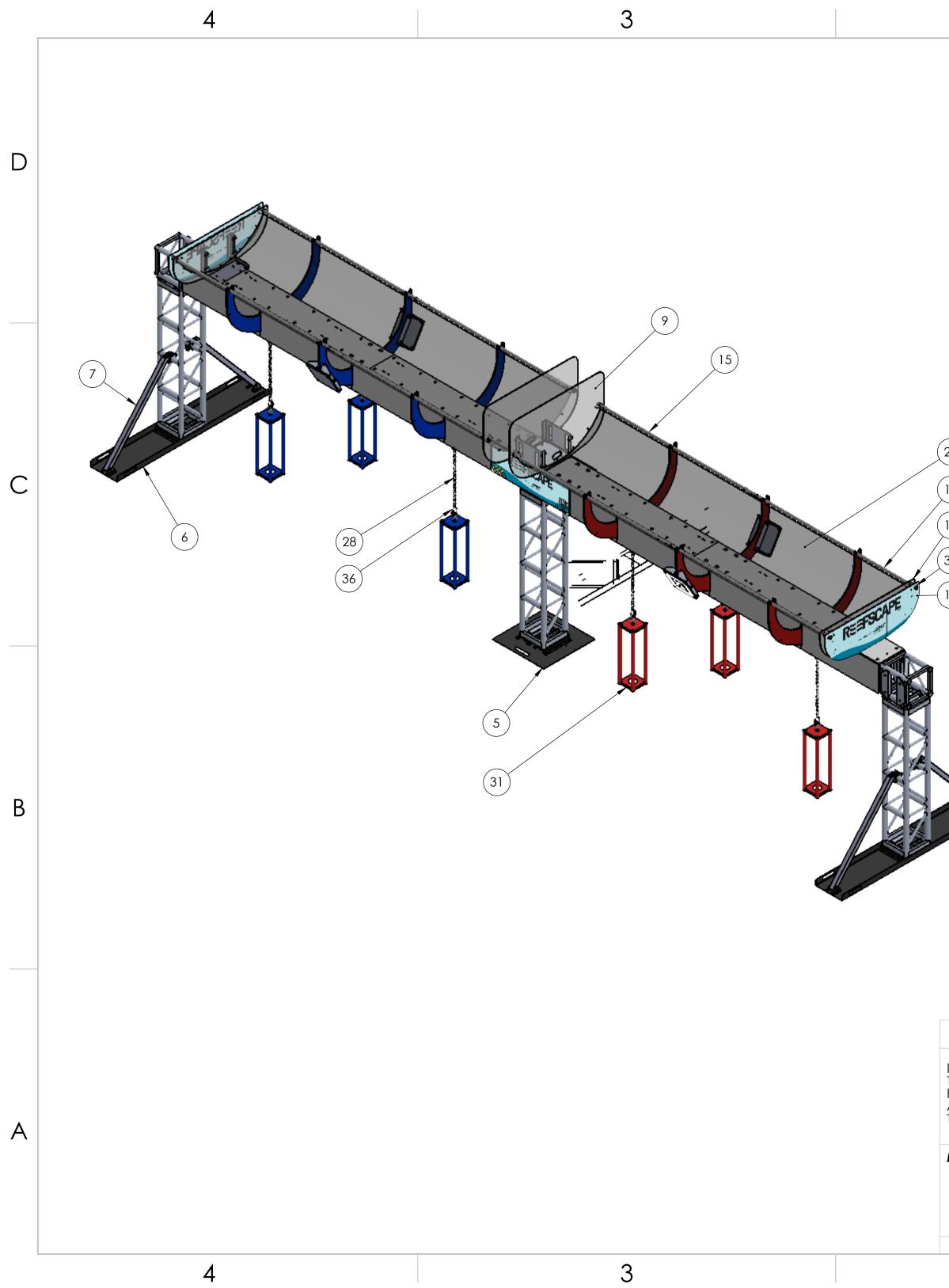
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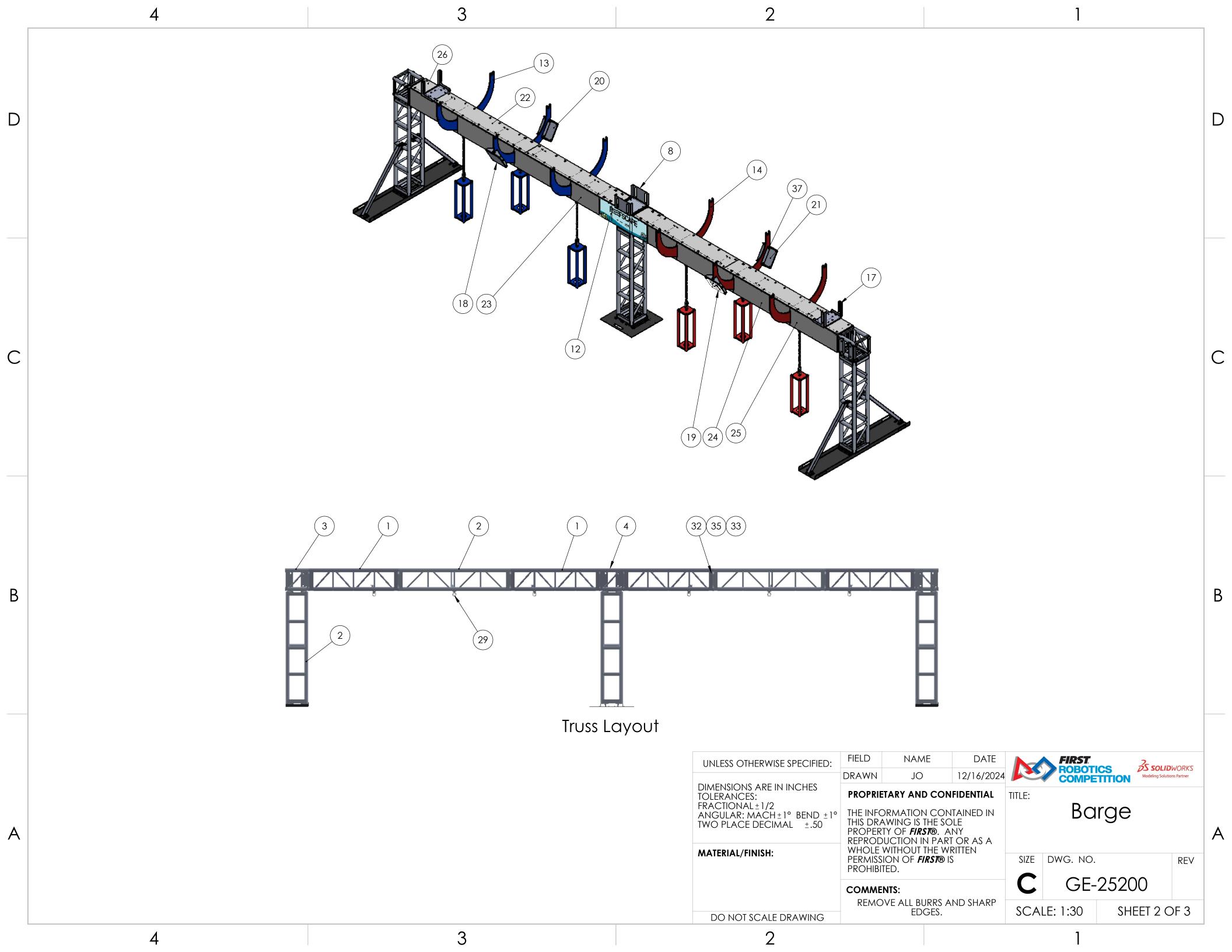
r							-	4
	ITEM NO.	PART NUN	ABER		DESCRIPTIO	N	QTY.	
	1	FE-00018-01		1 1/4" Schedule 40 6061-T6 Aluminum Pipe			1]
	2	FE-00018-02		1" Schedu	vle 40 6061-To Pipe	6 Aluminum	2	
	3	GE-25126	GE-25126		Thinner Connector Plate			
UNLESS OTHERWISE SPECIFIED:	WELD	NAME	DATE		FIRST			
	DRAWN	JO	10/3/202	24	ROBOTI COMPE	Madel.	SOLIDWORKS ing Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1 TWO PLACE DECIMAL±.02 THREE PLACE DECIMAL±.015	 THE INFC THIS DRA PROPER REPROD 	TARY AND CON DRMATION CON WING IS THE SO TY OF FIRST® . A UCTION IN PART	TAINED IN DLE NY [°] OR AS A		Proce Conr Indy/M	necto	r -	A
MATERIAL/FINISH:		WITHOUT THE WF ION OF FIRST® IS TED.		SIZE	DWG. NO.		REV	
	COMME	NTS:		C	GE-	25125		
DO NOT SCALE DRAWING	REMO	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:2 SHEET		1 OF 1	
2					1			-

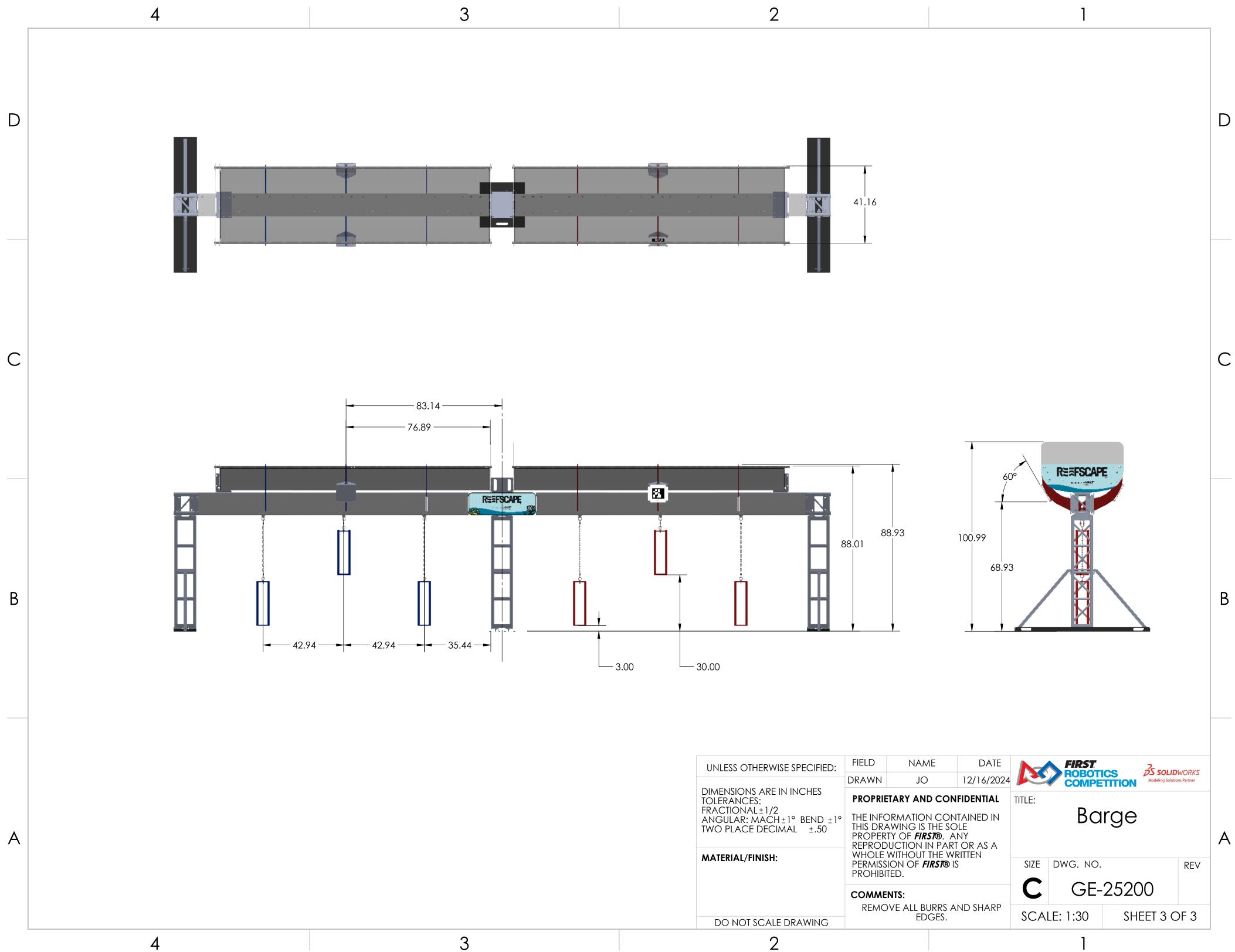
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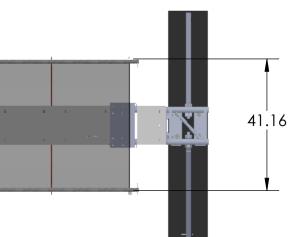


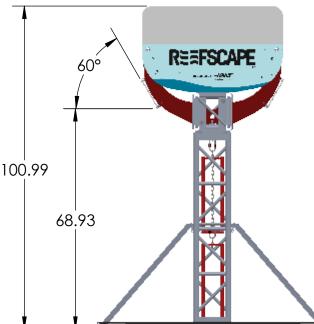


[ITEM NO.	PART NUMBE	R	DI	SCRIPTION		QTY.		
-	1	FE-01002		4' x 1' :	k 1' Square Tr	USS	4		
	2	FE-01003		5' x 1' :	k 1' Square Tr	USS	5		
	3	FE-01012		3 Wa	y Corner Bloc	ck	2		
	4	FE-01013	TS	1212LD-C4 ight Duty	P, 4 Way Cor Truss, Total Str	rner Block ructures	1		
-	5	FE-01021					1		
-	6	GE-25203		Truss Base,	Long - Shee ⁻ Assembly	t Metal	2		
	7	GE-25205		Truss E	brace Assemb	oly	4		
	8	GE-25206		Bac	kboard Brace	e	1		
	9	GE-25207		В	ackboard		2		
-	10	GE-25208			nner Front		2		
-	11	GE-25209		Oute	r Front w/Vin	yl	2		
_	12	GE-25211		Side	Panel w/Viny	yl	2		
27)	13	GE-25213			Rib, Blue		3		
	14	GE-25214			Rib, Red		3		
16)	15	GE-25215		Net T	ube Assemb	ly	4	C	
10	16	GE-25216		Net	Tube, Outer		4		
10	17	GE-25218			e, Barge Enc		2		
34)	18	GE-25220-ID14		April Tag A	ssembly, Trus	s (ID14)	1		
\sim	19	GE-25220-ID15			ssembly, Trus		1		
11)	20	GE-25220-ID4		April Tag A	Assembly, Tru:	ss (ID4)	1		
-	21	GE-25220-ID5			Assembly, Tru:		1		
-	22	GE-25221			op Diffuser		4		
-	23	GE-25222		Sic	le Diffuser 1		4		
-	24	GE-25223			le Diffuser 2		8		
-	25	GE-25224			le Diffuser 3		4		
	26	GE-25227 GE-25228 GE-25229 GE-25230		Diffuser Top, Small Net Cage Chain Eye Nut Assembly			2	B	
	27						2		
	28						4		
	29						6		
	30	GE-25231-Blue		Cage	Assembly, Bl	ue	3	D	
	31	GE-25231-Red		Cage Assembly, Red Hex Head Bolt, 5/8"-11 Thread, 2" length 5/8"-11 hex nut			3		
-	32	hex625_11_2.00) H				56		
	33	hexnut625_11					52		
	34	pin_quick_ring25_2.3 125		Pin, Ring-Grip Quick-Release with SS Ring, 1/4" Diameter, 2.3125" Usable Length			24		
-	35	washer_flat625		Flat was	her for 5/8" so	crew	108		
-	36	3216T41_Carabin			ocking Steel,				
-	37	Configurable Bol	t	1" Long 1/	4-20 Hex Hec	ad Bolt	8		
UNLESS OTHERWISE SPECIFI	ED: FIELD	NAME	DATE		FIRST.		2		
	DRAW	1 JO	12/16/202	24 🏴	ROBOTI COMPE	CS Z	S SOLIDWORKS Modeling Solutions Partner		
DIMENSIONS ARE IN INCHES TOLERANCES:	PROP		FIDENTIAL	TITLE:				_	
FRACTIONAL±1/2 ANGULAR: MACH±1° BEND TWO PLACE DECIMAL ±.50	n ⁼ This D	FORMATION CON RAWING IS THE SC	DLE						
MATERIAL/FINISH· WHOLE WITHOU		DUCTION IN PAR E WITHOUT THE WI	i or as a Ritten					A	
	PERMI PROHI	ssion of first ® I: Bited.	J	SIZE	SIZE DWG. NO.		REV		
	COM	MENTS:		- C	GE-	25200) (
		OVE ALL BURRS A	ND SHARP	IARP				_	
DO NOT SCALE DRAWING	G	EDGES.		SCA	LE: 1:25	SHE	et 1 of 3		
2					1				





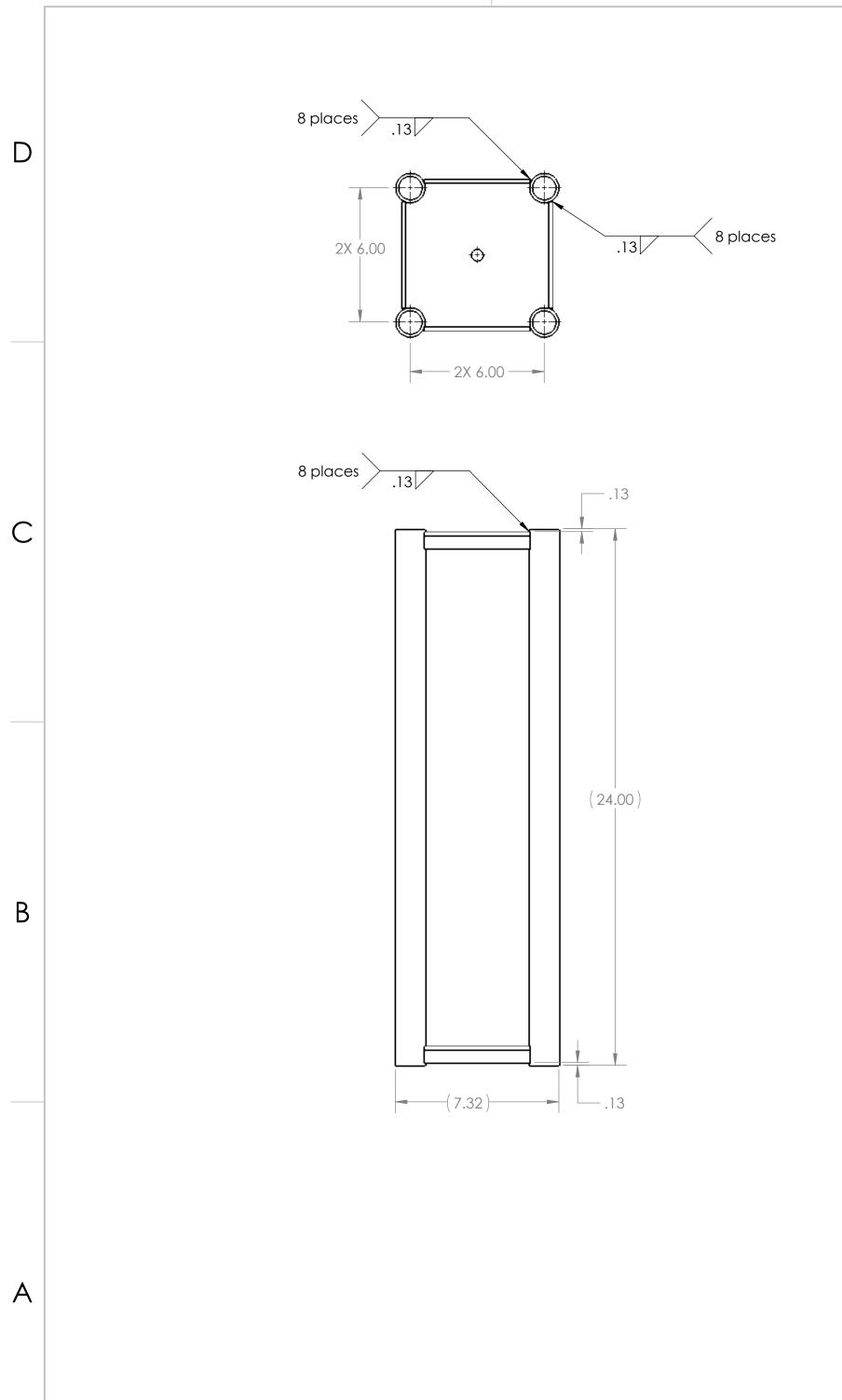


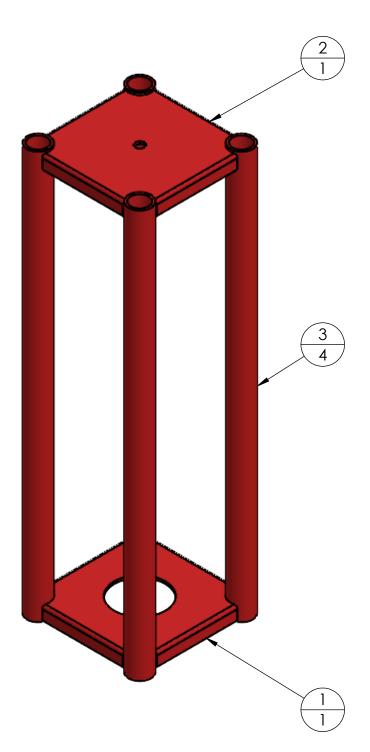


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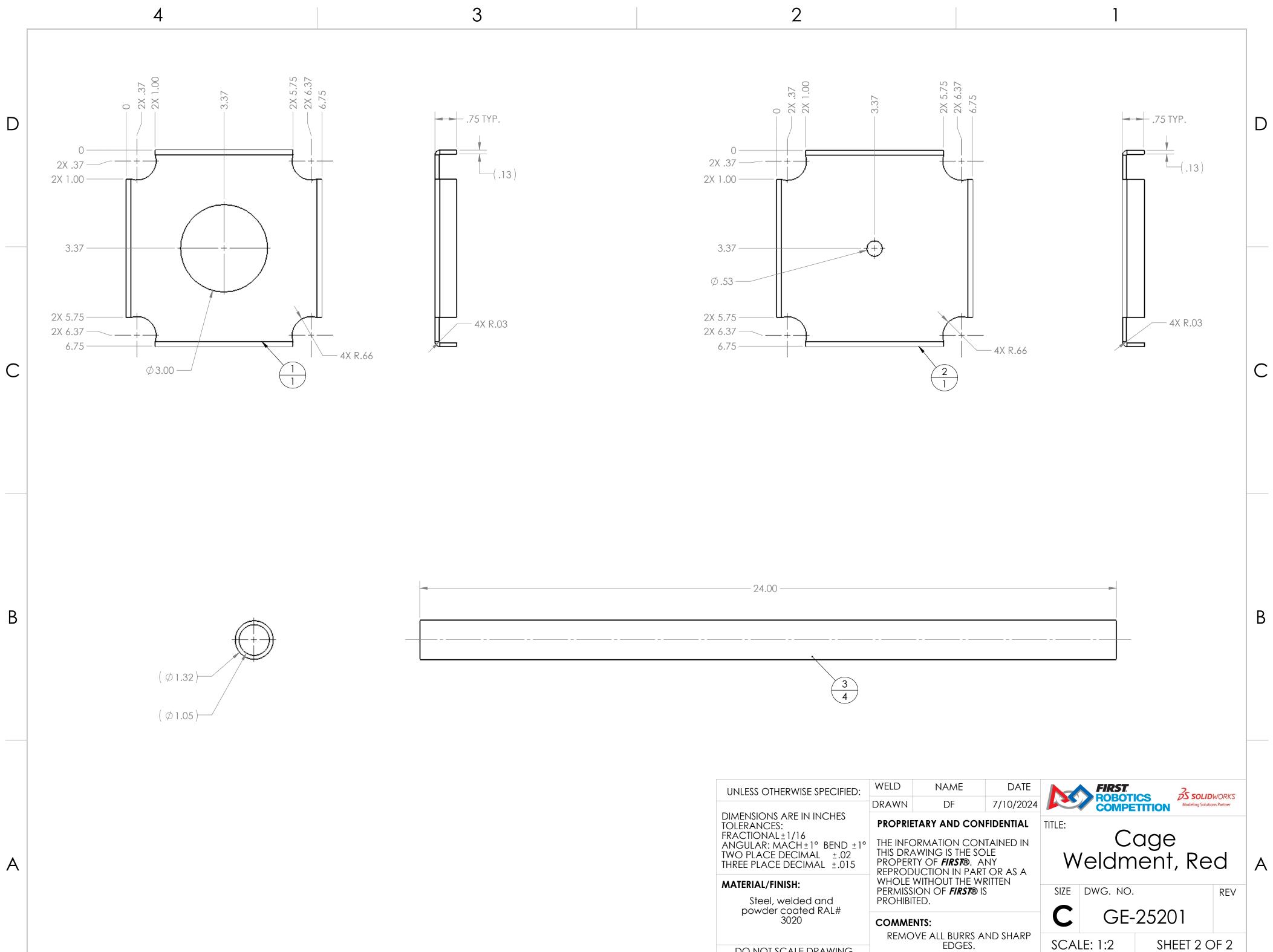
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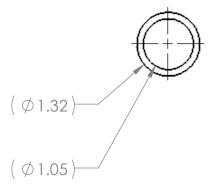
-		-						
ITEM NO		PART NUMBER		DESCRIPTION		QT	·	
	1	GE-25201-01		10 ga. A36/1008 Mild Steel Sheet			et 1	
-	2	GE-25201-02	GE-25201-02		10 ga. A36/1008 Mild Steel Sheet			
	3 GE-252		25201-03		1" Schedule 40 Pipe, A500 Steel			
UNLESS OTHERWISE SPECIFIED:	WELD	NAME	DATE			25		
	DRAWN	DF	7/10/20				SOLIDWOR Modeling Solutions Part	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.015 MATERIAL/FINISH: Steel, welded and	 THE INFO THIS DRA PROPER REPROD WHOLE 	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS			TITLE: Cage Weldment, Red SIZE DWG. NO. REV			
powder coated RAL# 3020		COMMENTS: REMOVE ALL BURRS AND SHAR		C GE-25201 SCALE: 1:4 SHEET		-	2	
DO NOT SCALE DRAWING	WING EDGES.			SCA	LE. 1.4	SHE	et 1 of	۷
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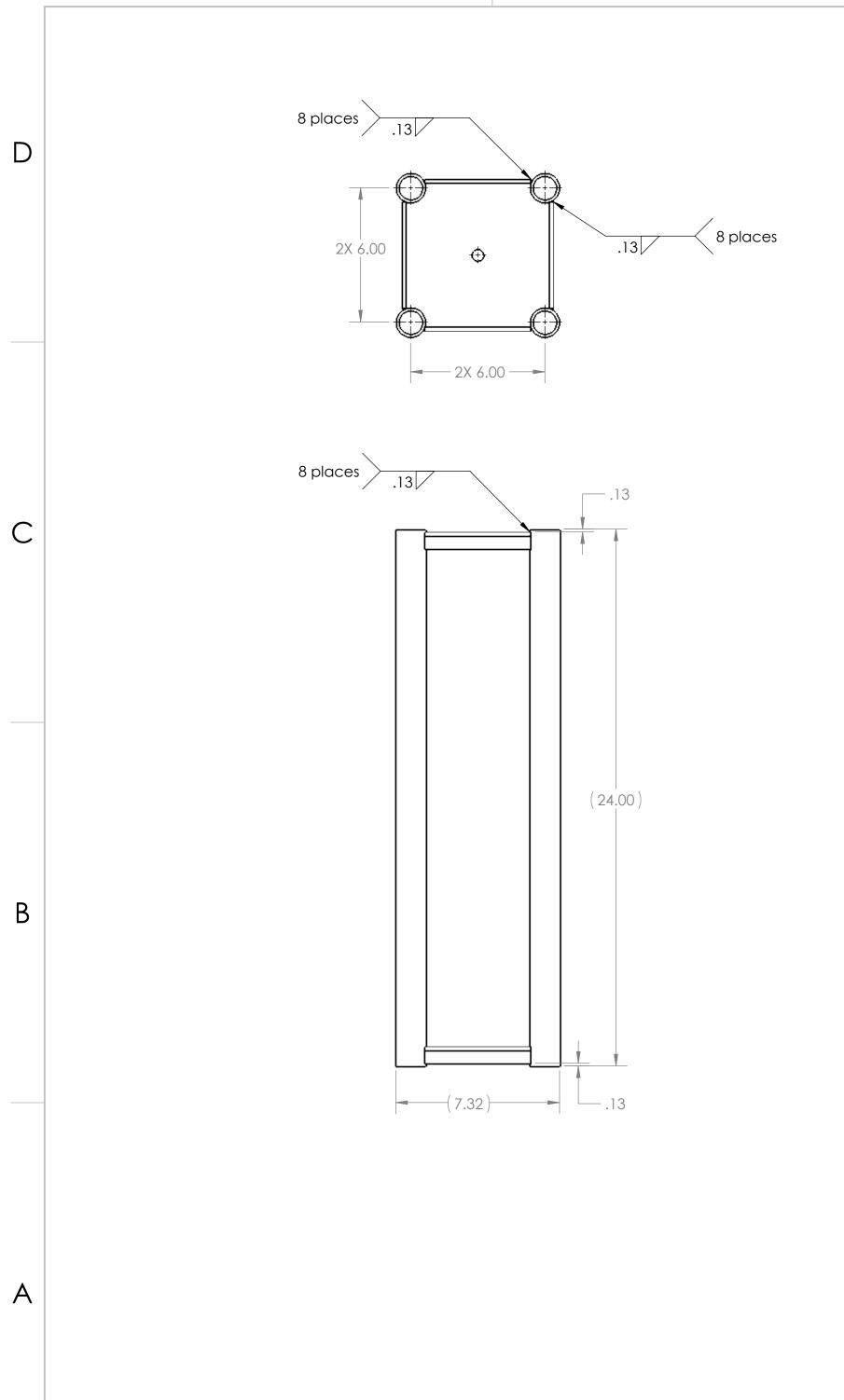
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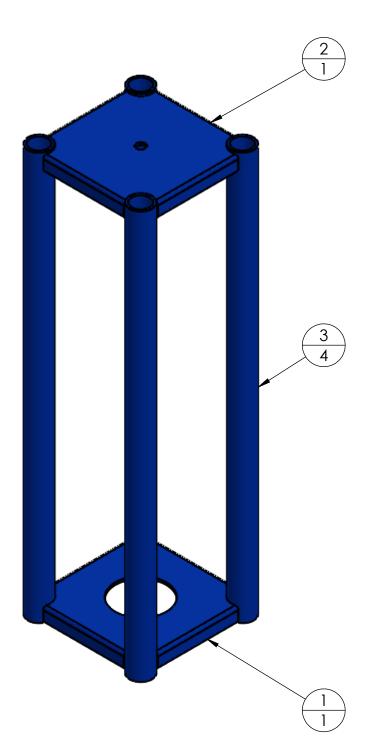
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DO NOT SCALE DRAWING



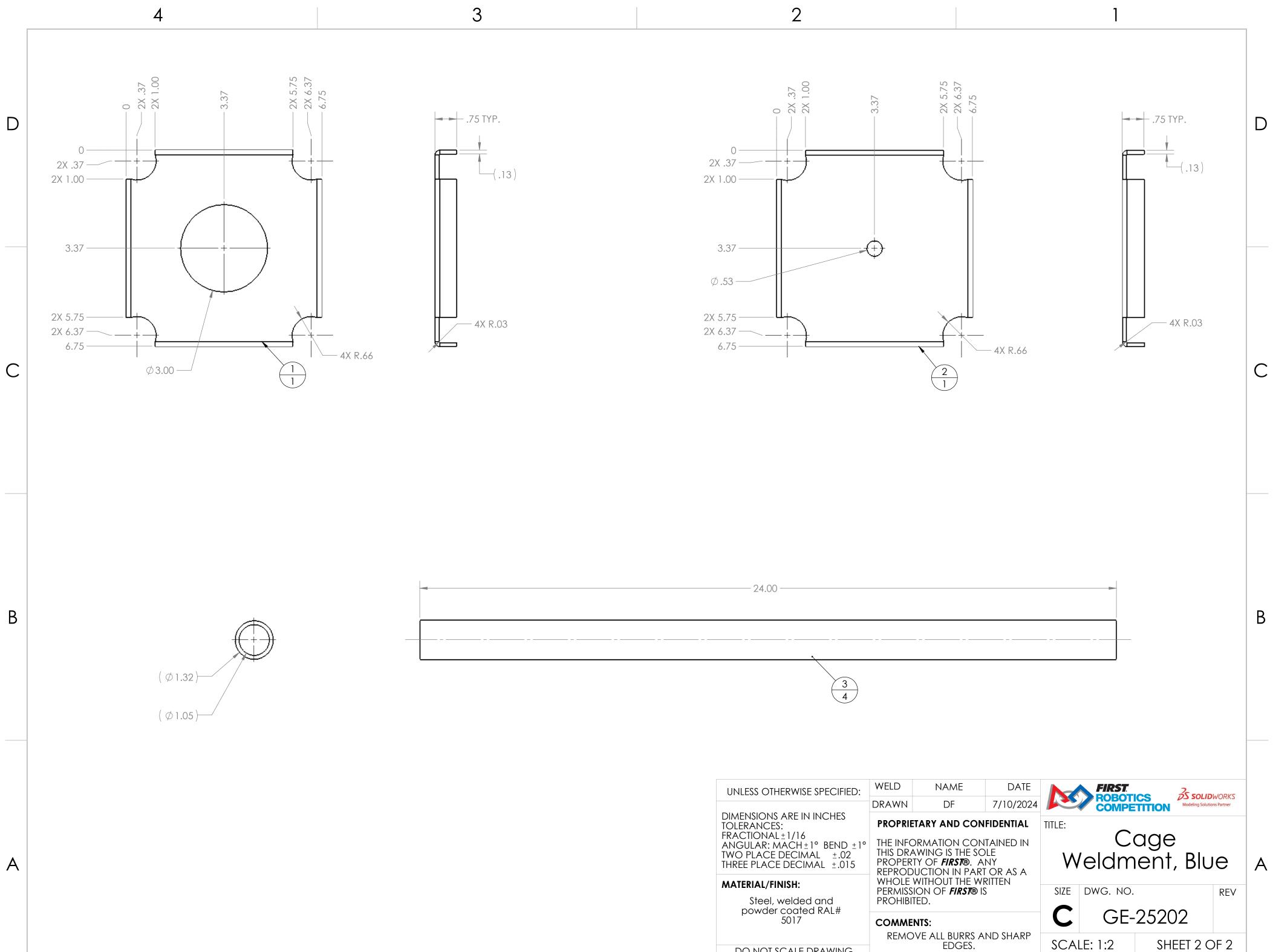


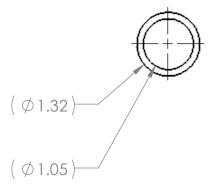
-								
ITEM NO. PAR		PART NU	ART NUMBER		DESCRIPTION		QTY.	
-	1	GE-25202-01		10 ga. A36/1008 Mild Steel Sheet			1	1
2 0		GE-25202-02	-25202-02		10 ga. A36/1008 Mild Steel Sheet			
	3	GE-25202-03	202-03		1" Schedule 40 Pipe, A500 Steel		4	
UNLESS OTHERWISE SPECIFIED:			DAT	E	FIRST.			
	DRAWN	DF					SOLIDWORKS leling Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.015 MATERIAL/FINISH: Steel, welded and	 THE INFC THIS DRA PROPER REPROD WHOLE 	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS			TITLE: Cage Weldment, Blue			A
powder coated RAL# 5017	COMME	IENTS: OVE ALL BURRS AND SHAR		P S	C GE-25202			-
DO NOT SCALE DRAWING		EDGES.			CALE: 1:4	2HEEL	1 OF 2	
2				1				

В

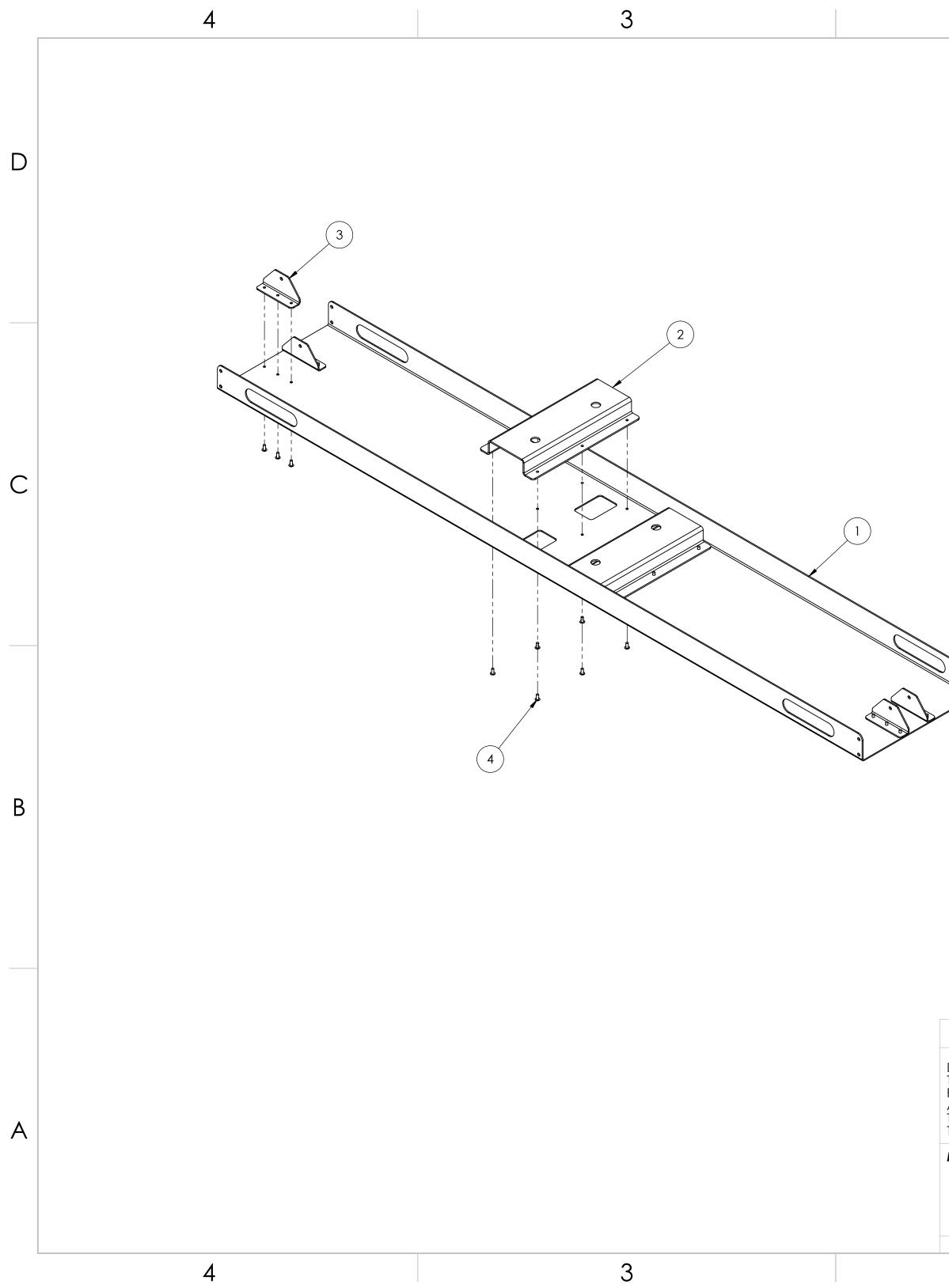
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DO NOT SCALE DRAWING



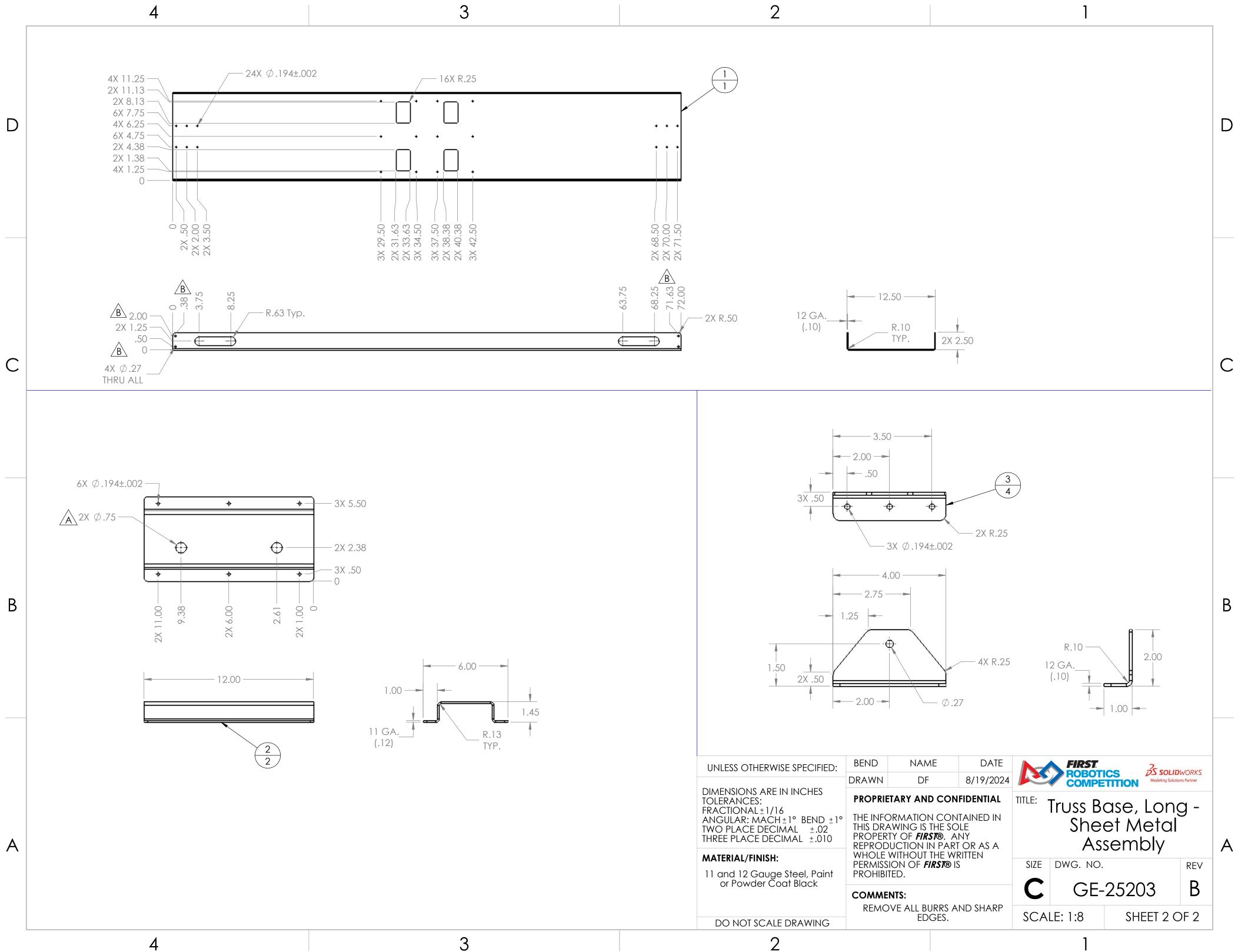
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
2-B4	А	2X Ø.75 was 2X Ø.88	8/28/2024	DAF
2-C2, 2-C4	В	Added 4X Ø.27 THRU ALL holes.	9/10/2024	DAF

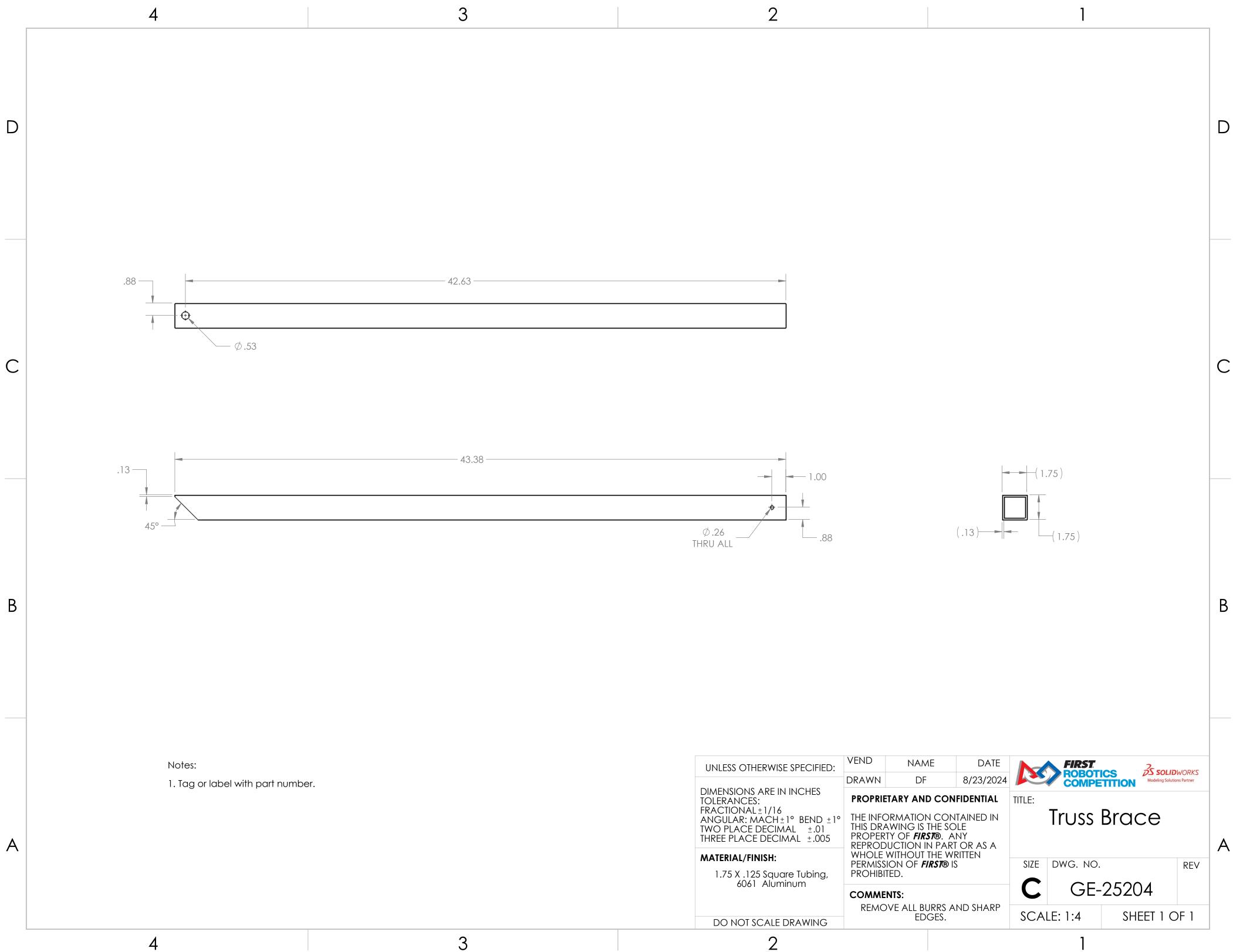
В

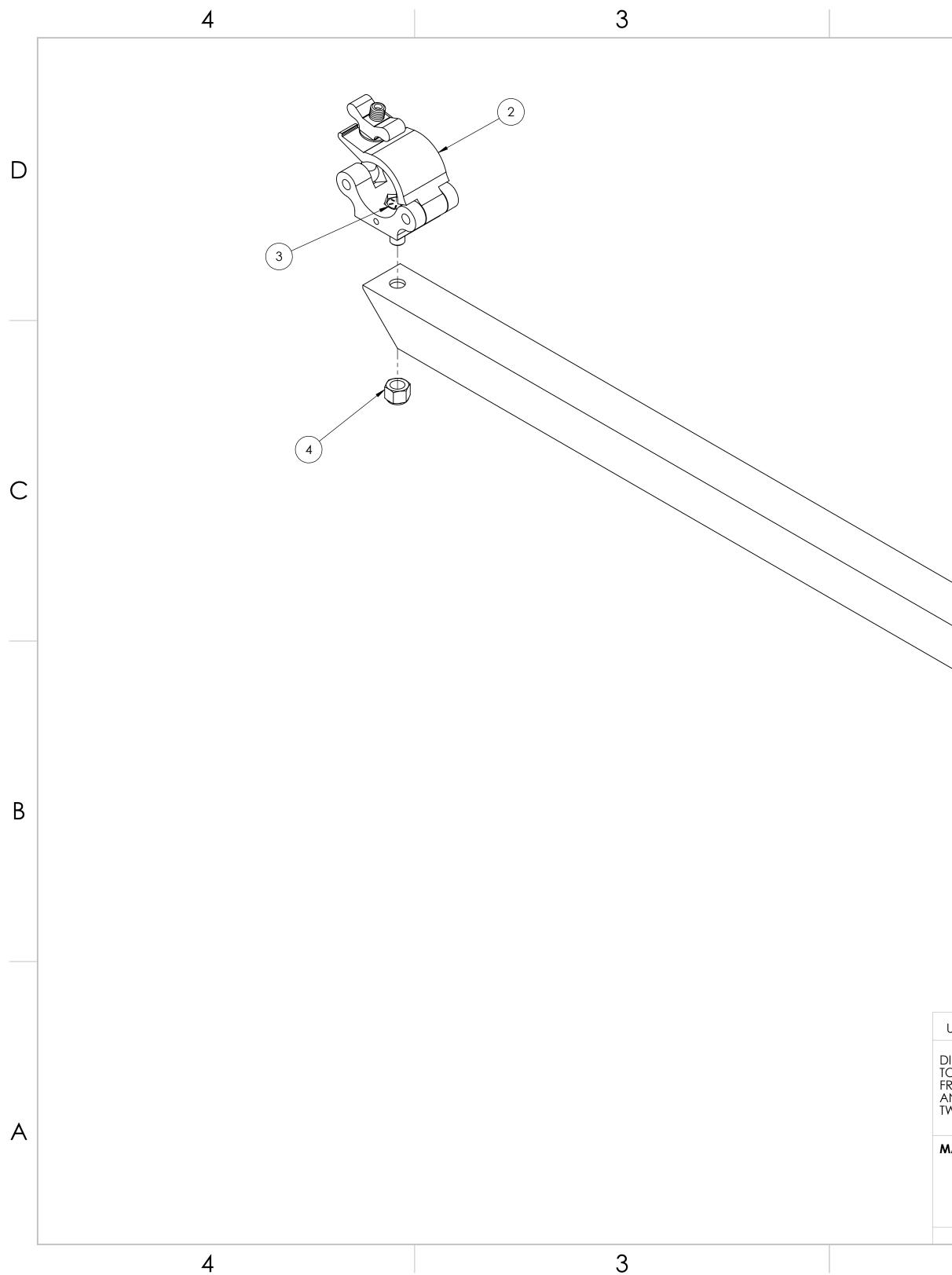
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	ITEM NO.	PART NUM	PART NUMBER		DESCRIPTION			QTY.	
1		GE-25203-01		Truss Base - Sheet Metal Assembly, Base Plate			nbly,	1	
_	2	GE-25203-02		Truss Base - Sheet Metal Assembly, Truss Feet		nbly,	2		
	3	GE-25203-03	GE-25205-05		e - Sheet Met Angle	al Assem	4		
	4	rivet187512			/et, .12625 (Grip Ran	ge	24	
UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DAT		FIRST.	00		WORKS	
	DRAWN	DF	8/19/20	24			Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS			Truss Base, Long -				J -	A
MATERIAL/FINISH:				SIZE	DWG. NO.		/	REV	_
11 and 12 Gauge Steel, Paint	PROHIBIT								
or Powder Čoat Black COMMENTS:					GE-	2520)3	В	
DO NOT SCALE DRAWING	REMO	REMOVE ALL BURRS AND SHARP EDGES.			LE: 1:6	SH	EET 1 C	OF 2	
2									







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SHEET 1 OF 1

QTY. ITEM NO. PART NUMBER DESCRIPTION GE-25204 Truss Brace 1 2 FE-01016 Cheeseborough for Truss _ Single 1 Steel Hex Head Screw, 1/2"-13 x 1.25" long, fully threaded hex_.5_13_1.25 3 1 nylock_.5_13 steel nylon-insert locknut, 1/2" - 13 4 1 FIELD FIRST. ROBOTICS COMPETITION NAME DATE UNLESS OTHERWISE SPECIFIED: 35 SOLIDWORKS JO 12/16/2024 DRAWN Modeling Solutions Partner DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.50 PROPRIETARY AND CONFIDENTIAL TITLE: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST®**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST®** IS PROHIBITED. Truss Brace Assembly MATERIAL/FINISH: SIZE DWG. NO. REV С GE-25205

SCALE: 1:2.5

1

COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.

DO NOT SCALE DRAWING

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4X 10.50 -10.88 -4X 11.00 -

9.00 -10.50 -11.50 -12.00 -

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-(.13)

- 4X R.10

- 2X R.13

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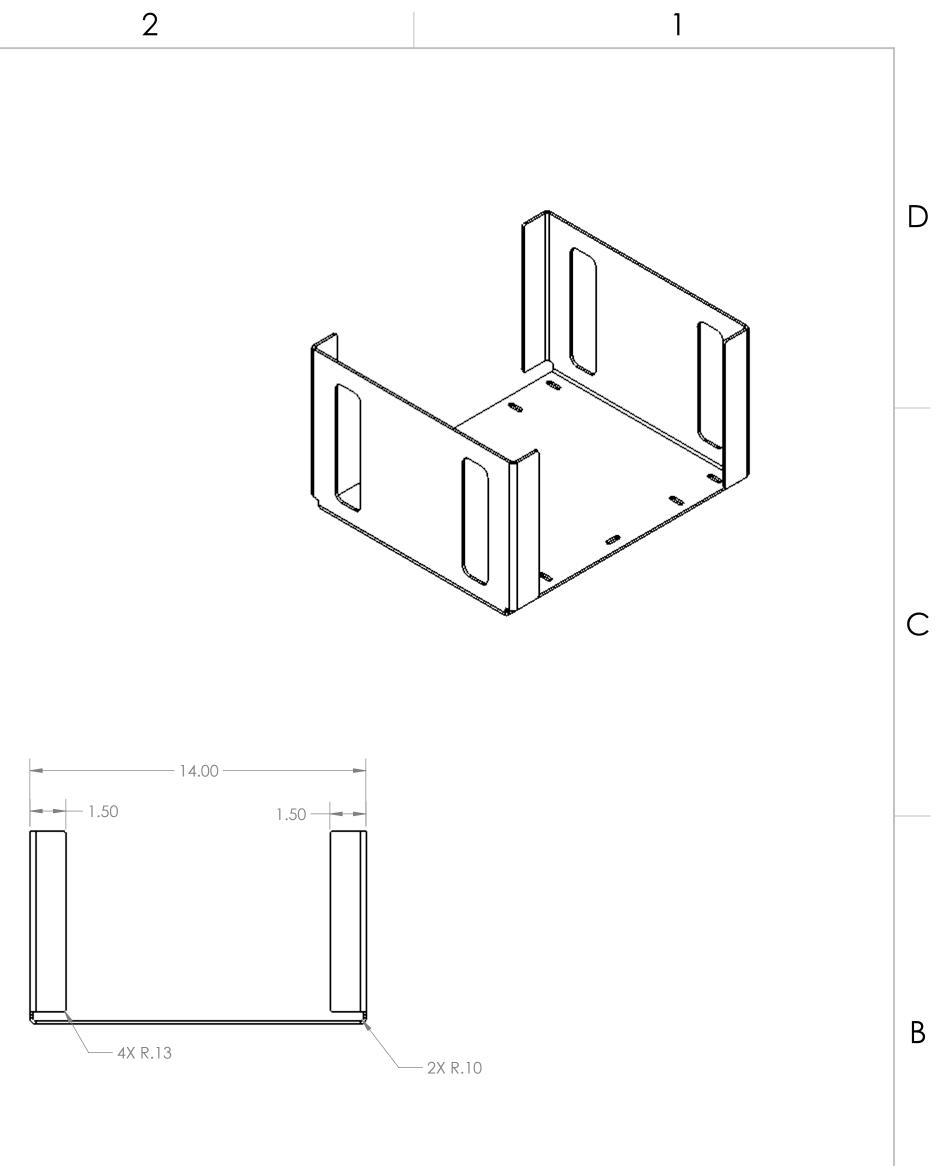
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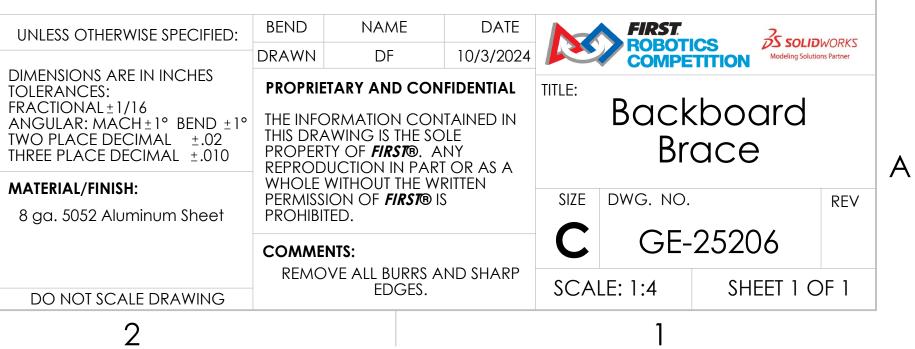
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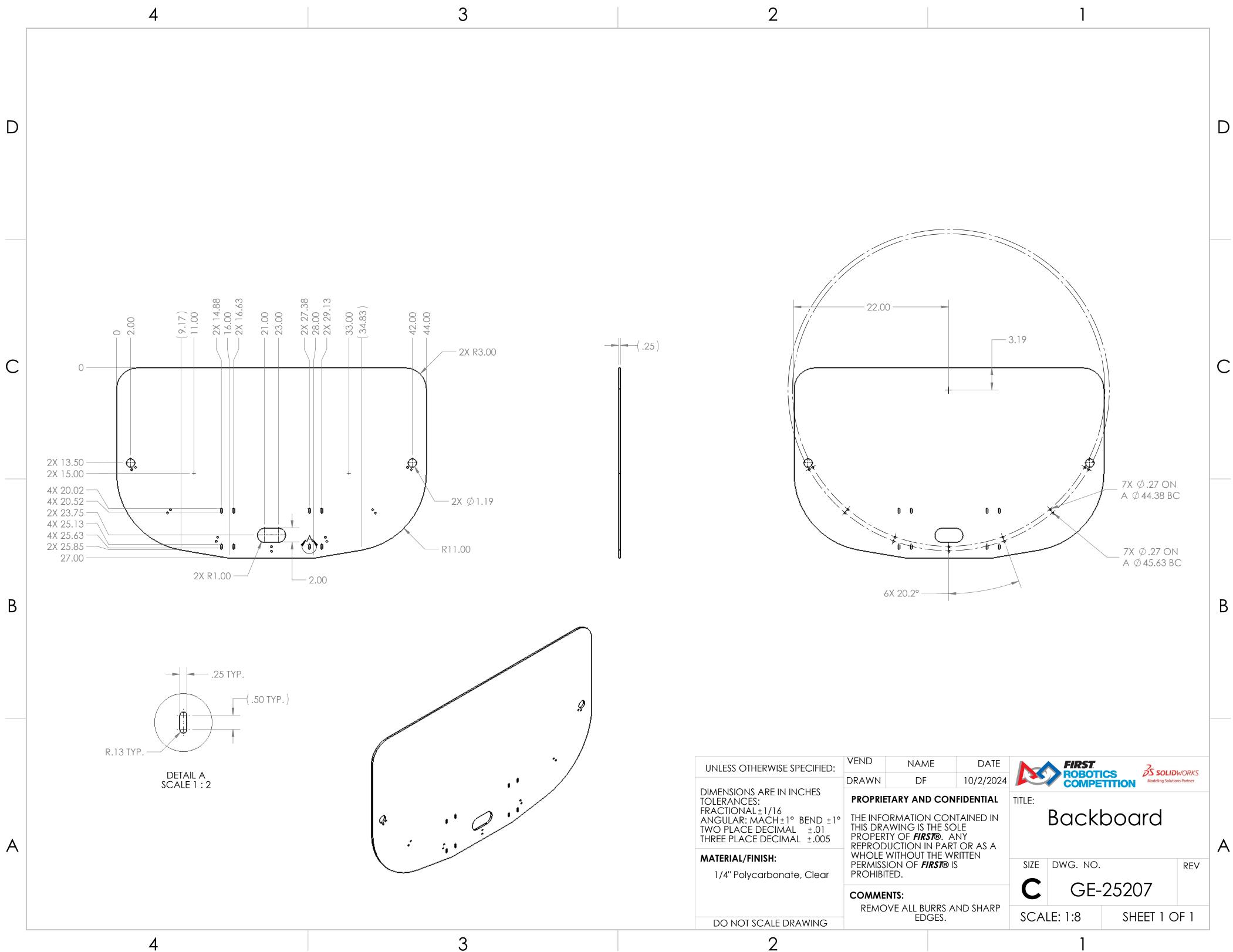
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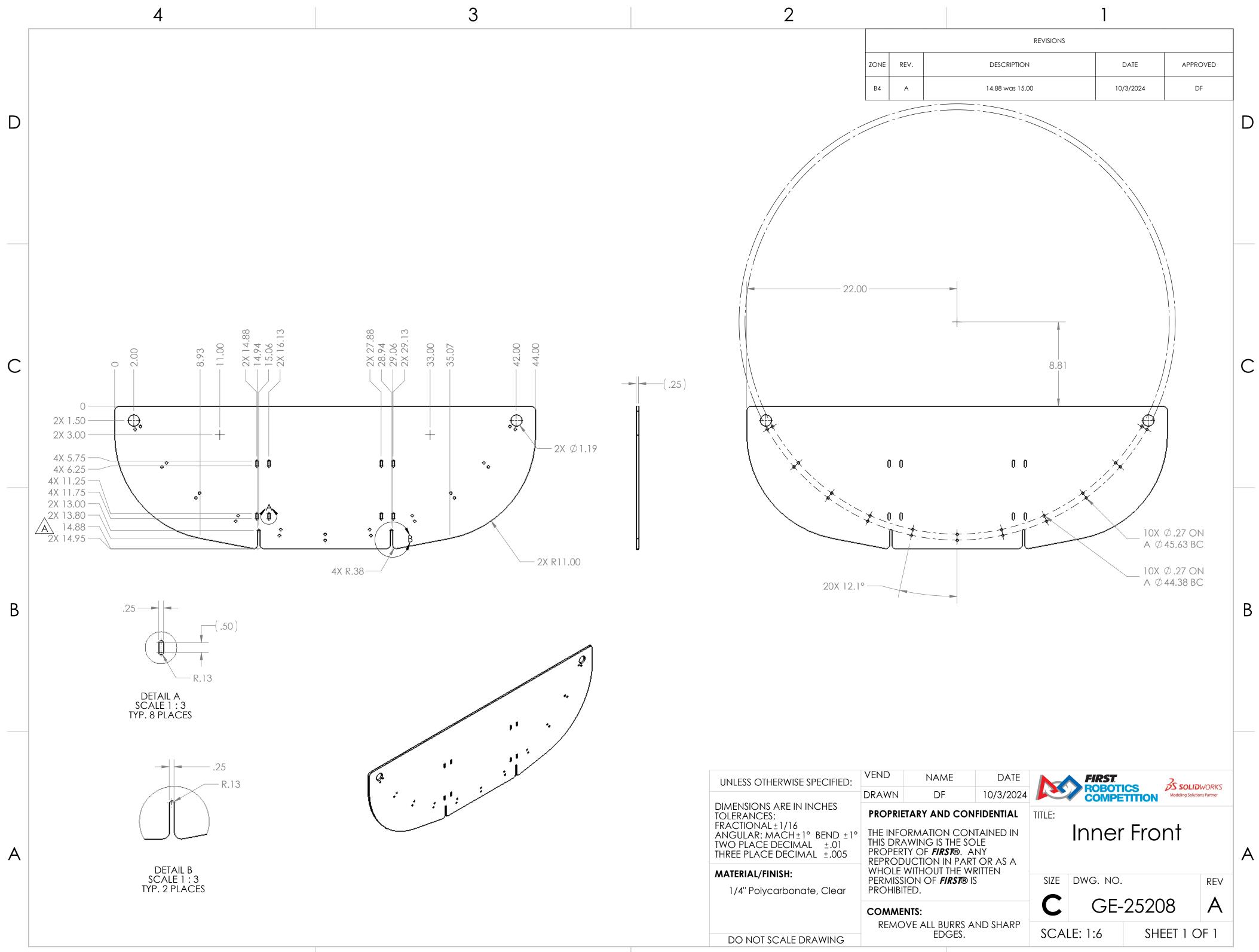
2X 13.13-⊕ 2X 10.88 ⊜ 2X 7.25 -2X 6.75-2X 3.13 -⊕ 2X .88 ÷ 0 - \bigcirc 4X 4X - 8X R.38 8.00 -2X 7.00 -2X 1.00 -2X .50 0 -0 .50 1.50 3.00 ---(.50) — R.13 \oplus .25 —

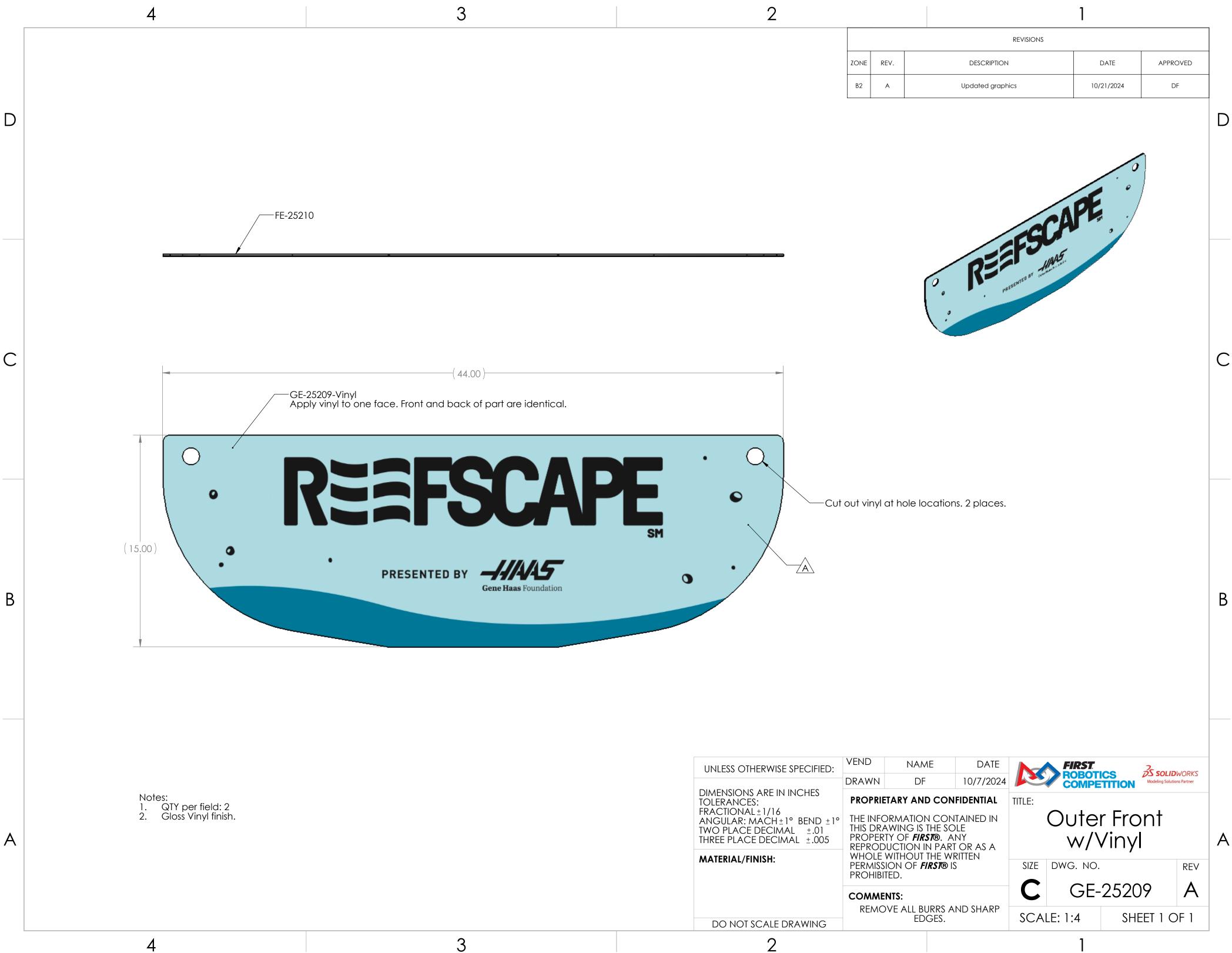
> DETAIL A SCALE 1 : 2 TYP. 10 PLACES





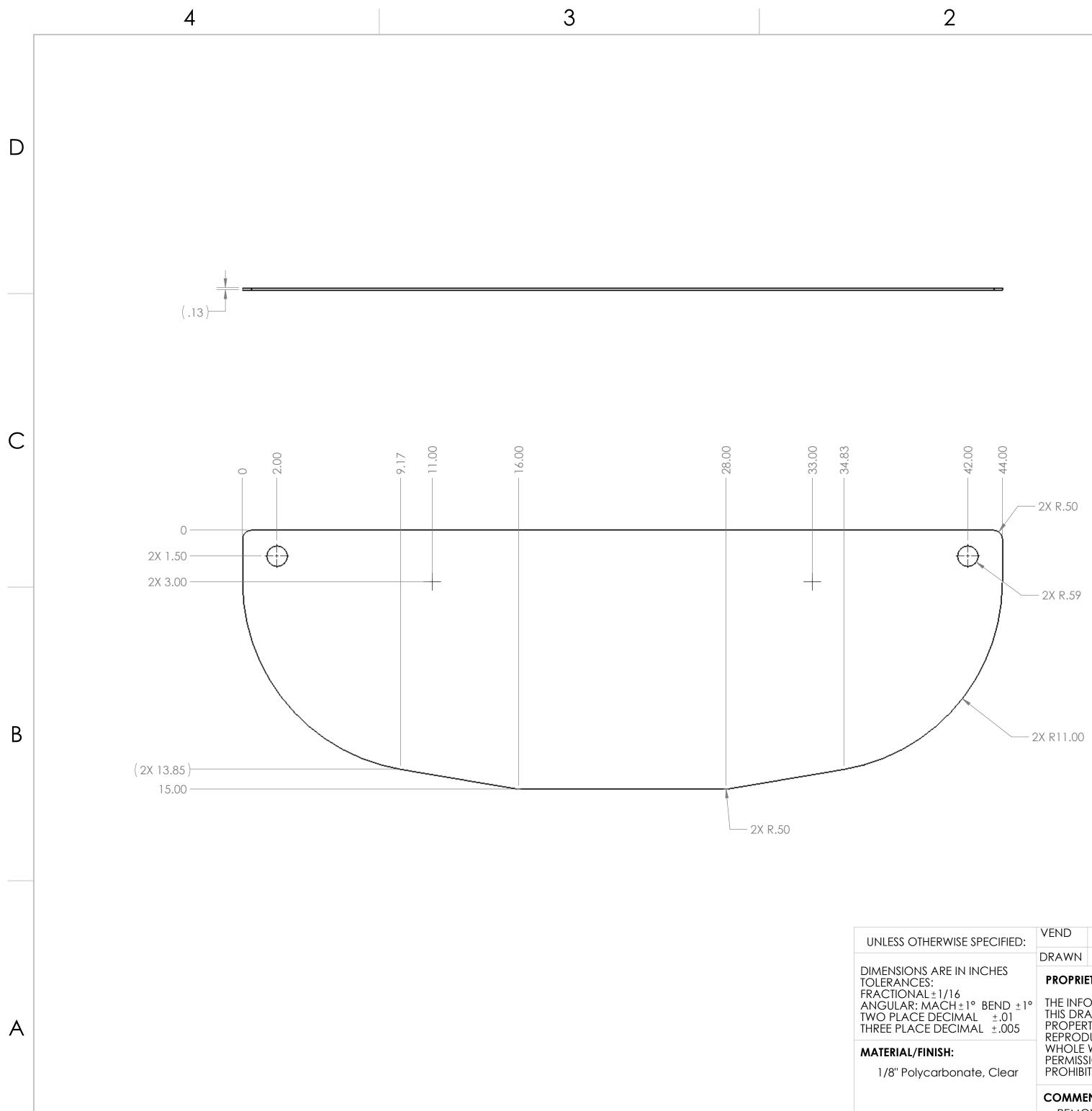






			I	
		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	А	Updated graphics	10/21/2024	DF





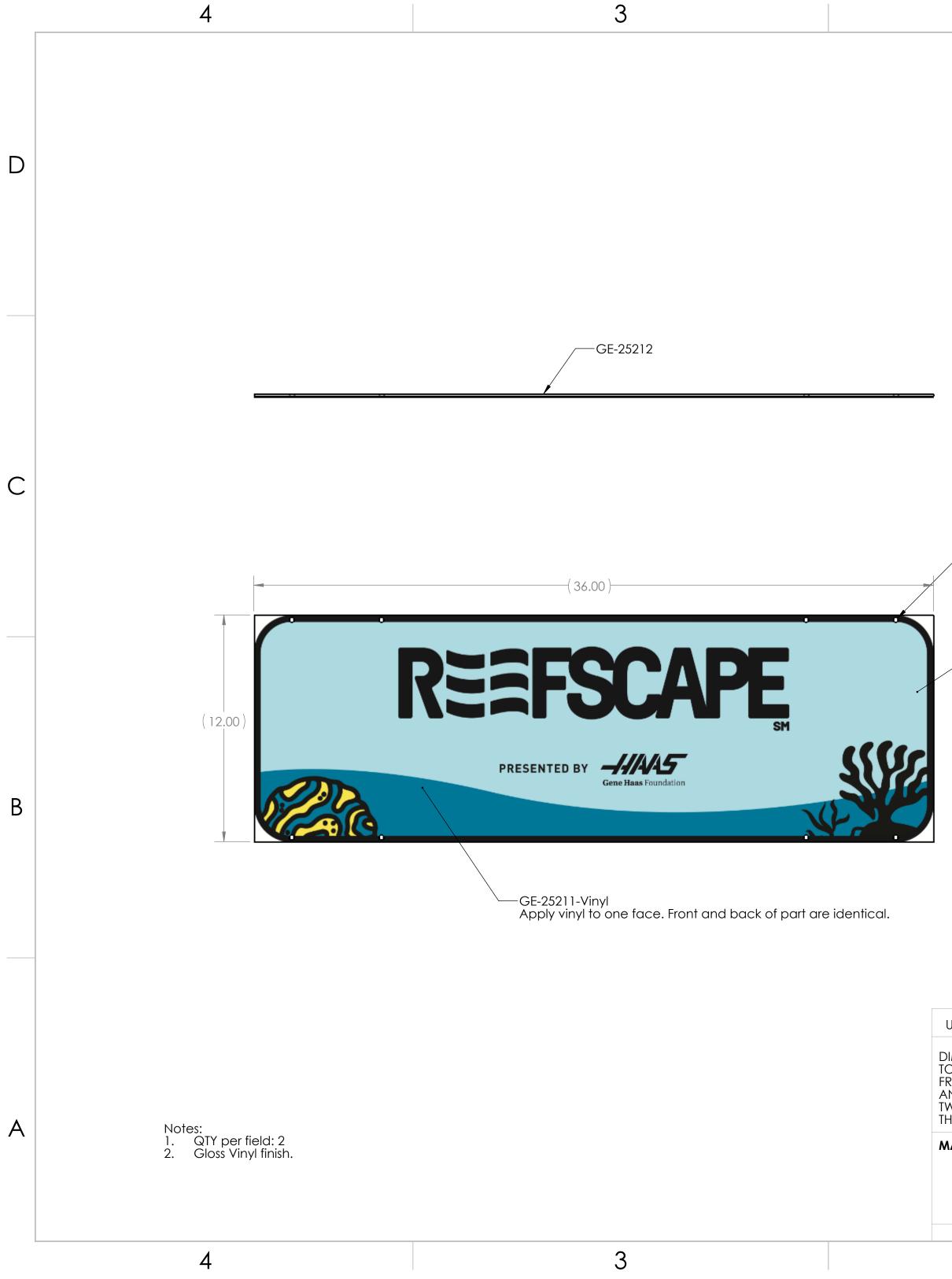
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UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST	100	25 SOLID	WORKS	
	DRAWN	DF	10/1/2024		ROBOT	ETITION			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN DE NY	Outer Front					A
MATERIAL/FINISH:	WHOLE	WITHOUT THE WE ION OF FIRST® IS	RITTEN	SIZE	DWG. NO				
1/8" Polycarbonate, Clear	PROHIBI)	SIZE				REV	
	COMME	NTS:		C	GE-	-252	10		
	REMC	VE ALL BURRS A EDGES.	ND SHARP		E: 1:4	SH	IEET 1 C)F 1	
DO NOT SCALE DRAWING		LDOLJ.		5074		511		'I I	
2					1				

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		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	A	Updatedg graphics	10/21/2024	DF

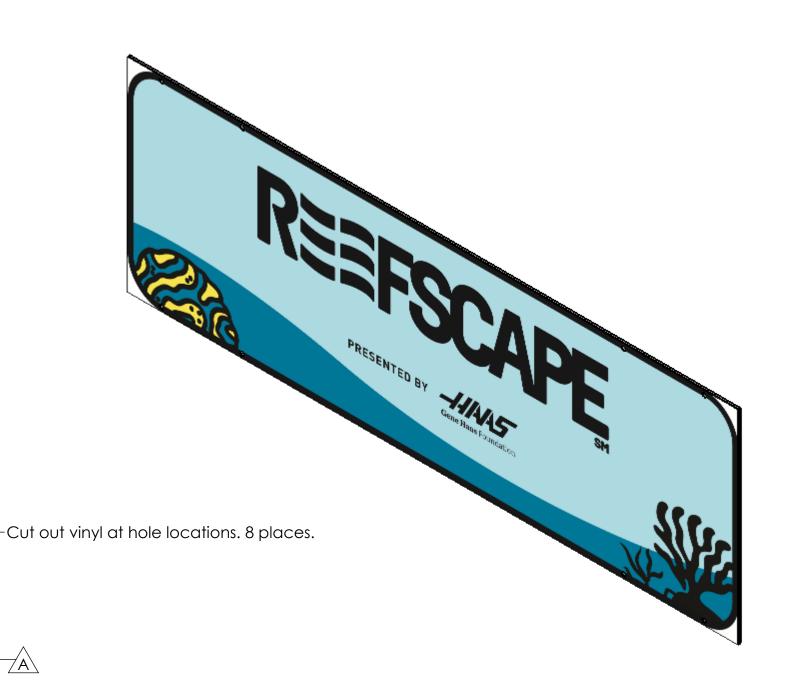
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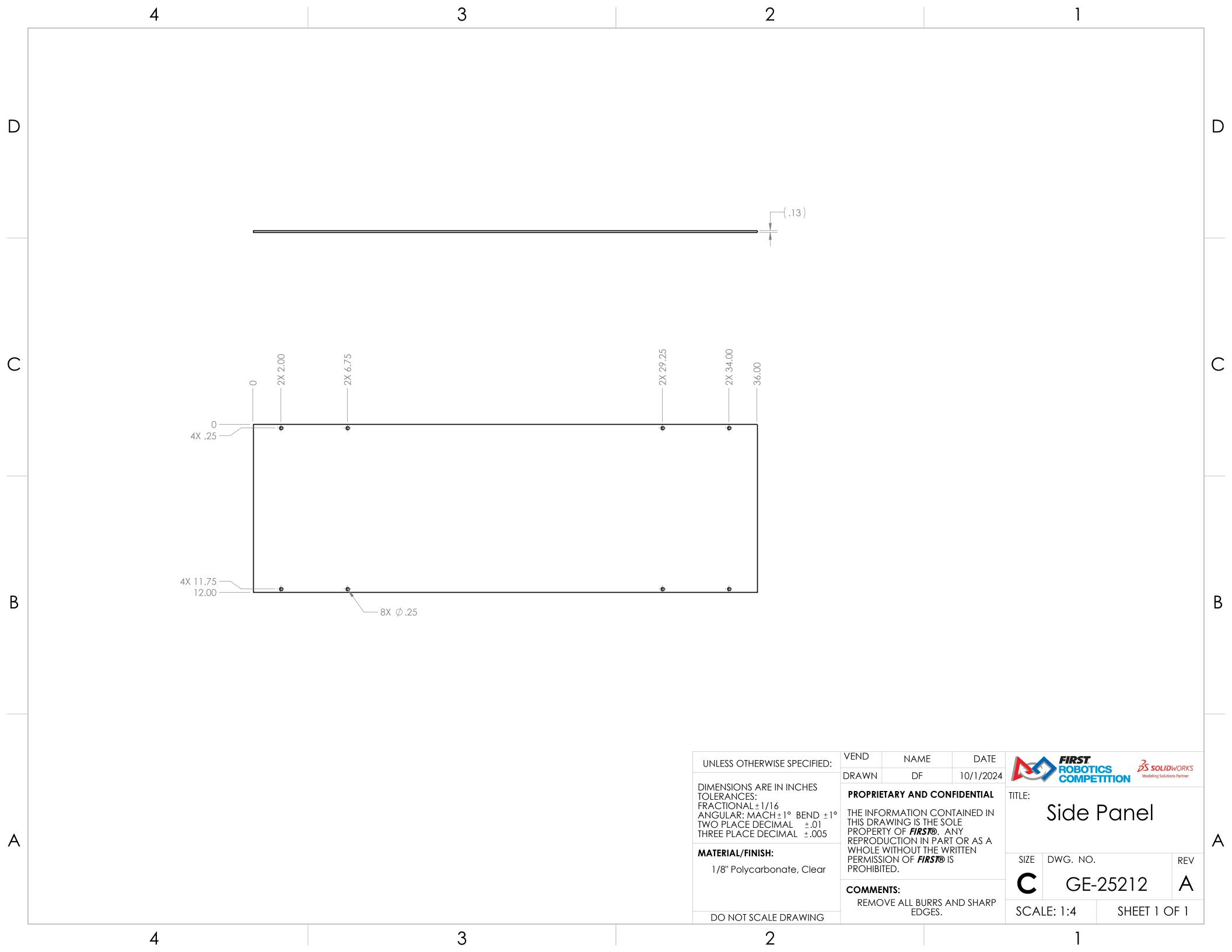
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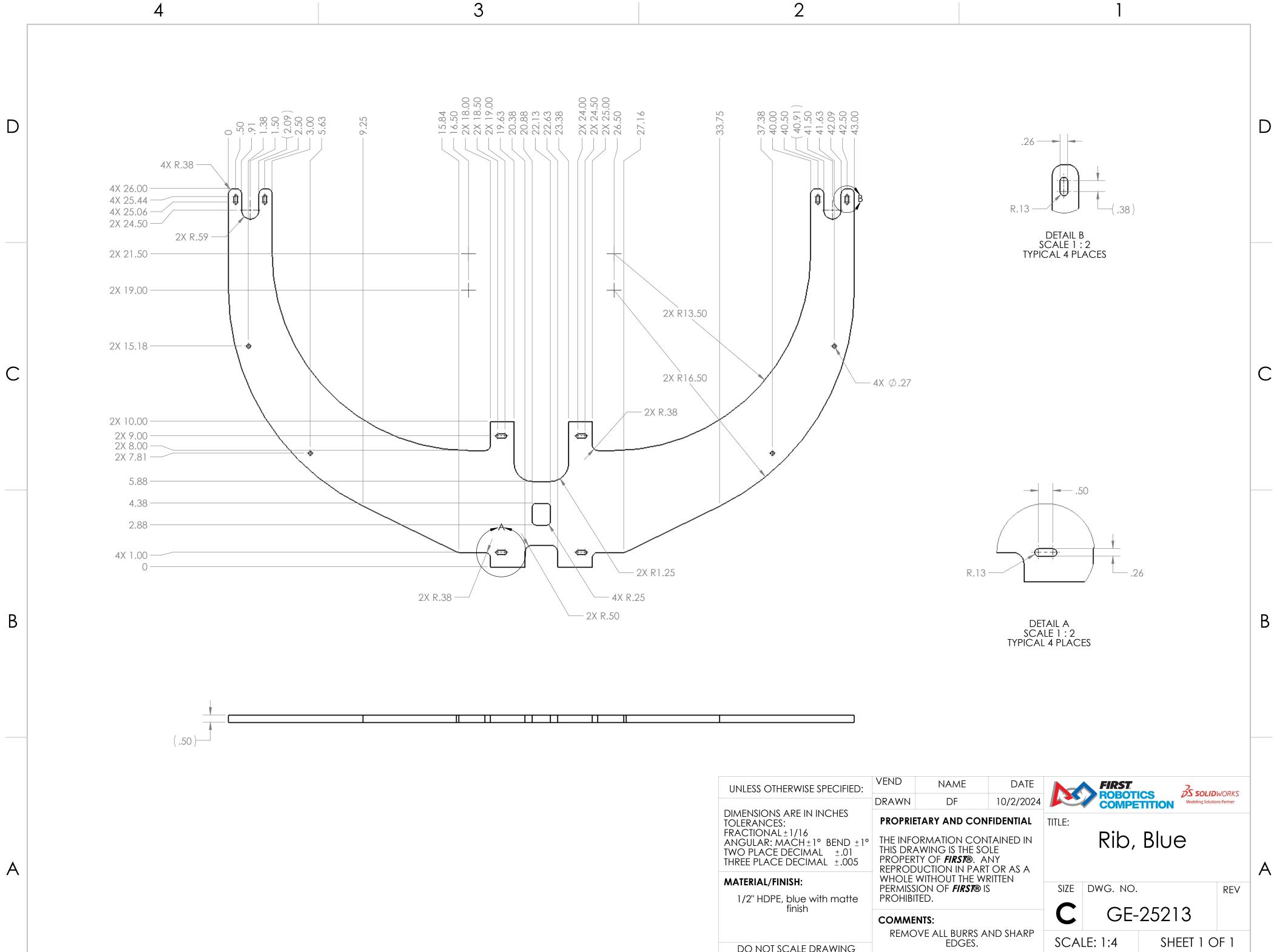
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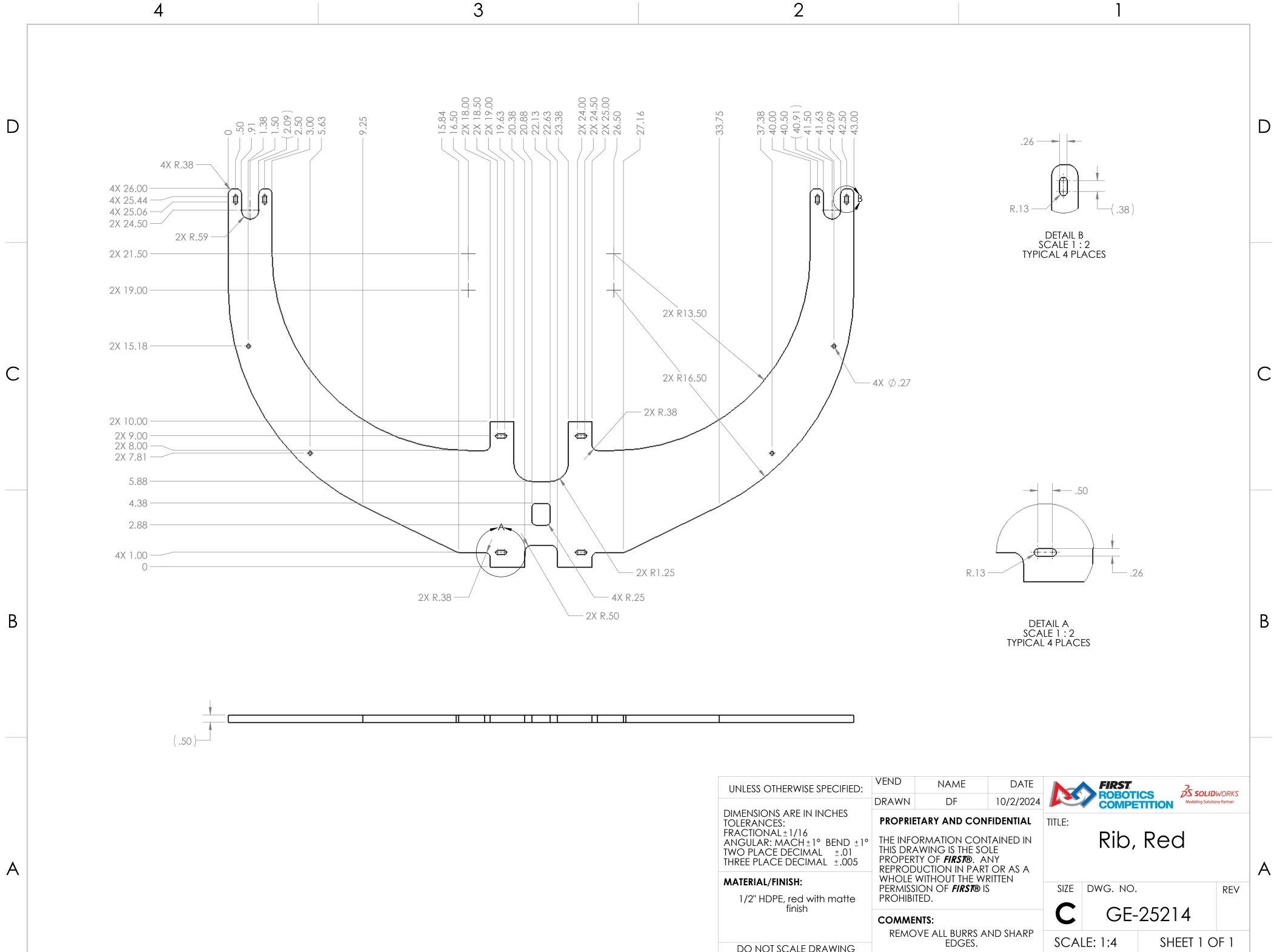


UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST. ROBOT		S SOLIDWORKS	
	DRAWN	DF	10/8/2024			TITION	Modeling Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF FIRST® . A DUCTION IN PART	TAINED IN LE NY OR AS A	Side Panel w/Vinyl				A
MATERIAL/FINISH:	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.		REV	
	COMME	NTS:		C	GE-	-25211	I A	
do not scale drawing	REMC	VE ALL BURRS A EDGES.	ND SHARP	SCAL	E: 1:4	SHEE	et 1 of 1	
2					1			

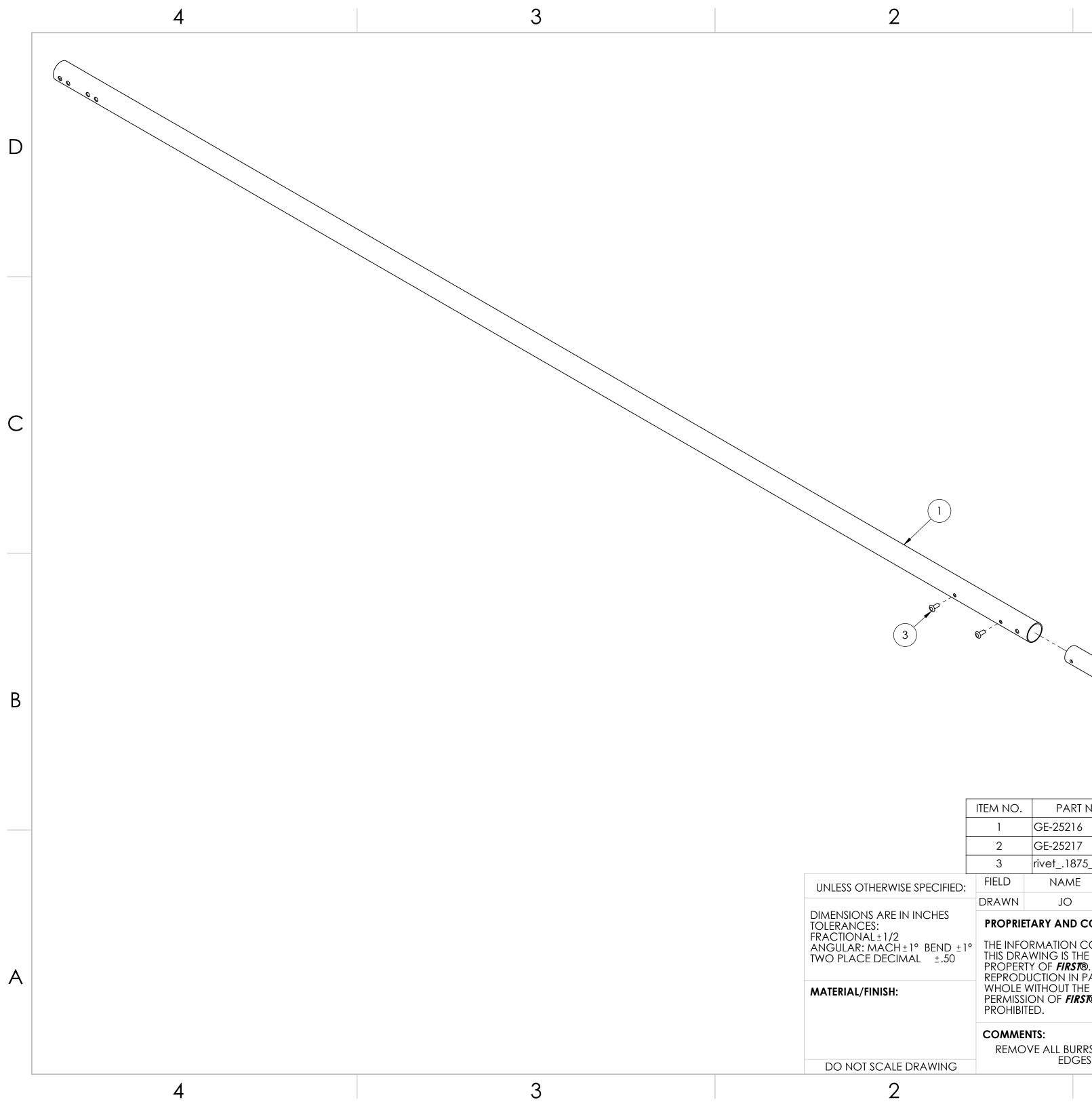




DO NOT SCALE DRAWING



DO NOT SCALE DRAWING



	ITEM NO.	PART NU	MBER		DESCRIPTIO	N	QTY.]
	1	GE-25216		1	Vet Tube, Ou	uter	1]
	2	GE-25217			Net Tube, Ini	ner	1	1
	3	rivet18751	2625	3/16" Riv	et, .12625 (Grip Range	2	1
UNLESS OTHERWISE SPECIFIED:	FIELD	NAME	DATE		FIRST			1
	DRAWN	JO	12/16/20	24			OLIDWORKS ing Solutions Partner	
FRACTIONAL±1/2 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.50 MATERIAL /FINISH: THE INFORM THIS DRAW PROPERTY REPRODUC		RMATION CON WING IS THE SC Y OF FIRST® . A UCTION IN PAR WITHOUT THE W ON OF FIRST® I	ARY AND CONFIDENTIAL RMATION CONTAINED IN WING IS THE SOLE Y OF <i>FIRST</i> ®. ANY ICTION IN PART OR AS A VITHOUT THE WRITTEN ON OF <i>FIRST</i> ® IS ED.		Asse	Tube embly	REV	A
	COMMEN REMO	NTS: VE ALL BURRS A	ND SHARF			25215		_
DO NOT SCALE DRAWING		EDGES.		SCA	LE: 1:3.5	SHEET	1 OF 1	
2				1			-	

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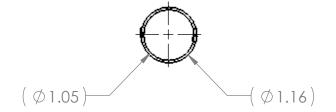
С

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3 4 D С -2X ∅.194±.002 -5X Ø.27 —--• -⊕-Ð-Ð .50 — 1.13-- 2.63 ------ 3.25 -В - 68.56 -- 72.06 -- 73.31 -- 74.06 -А

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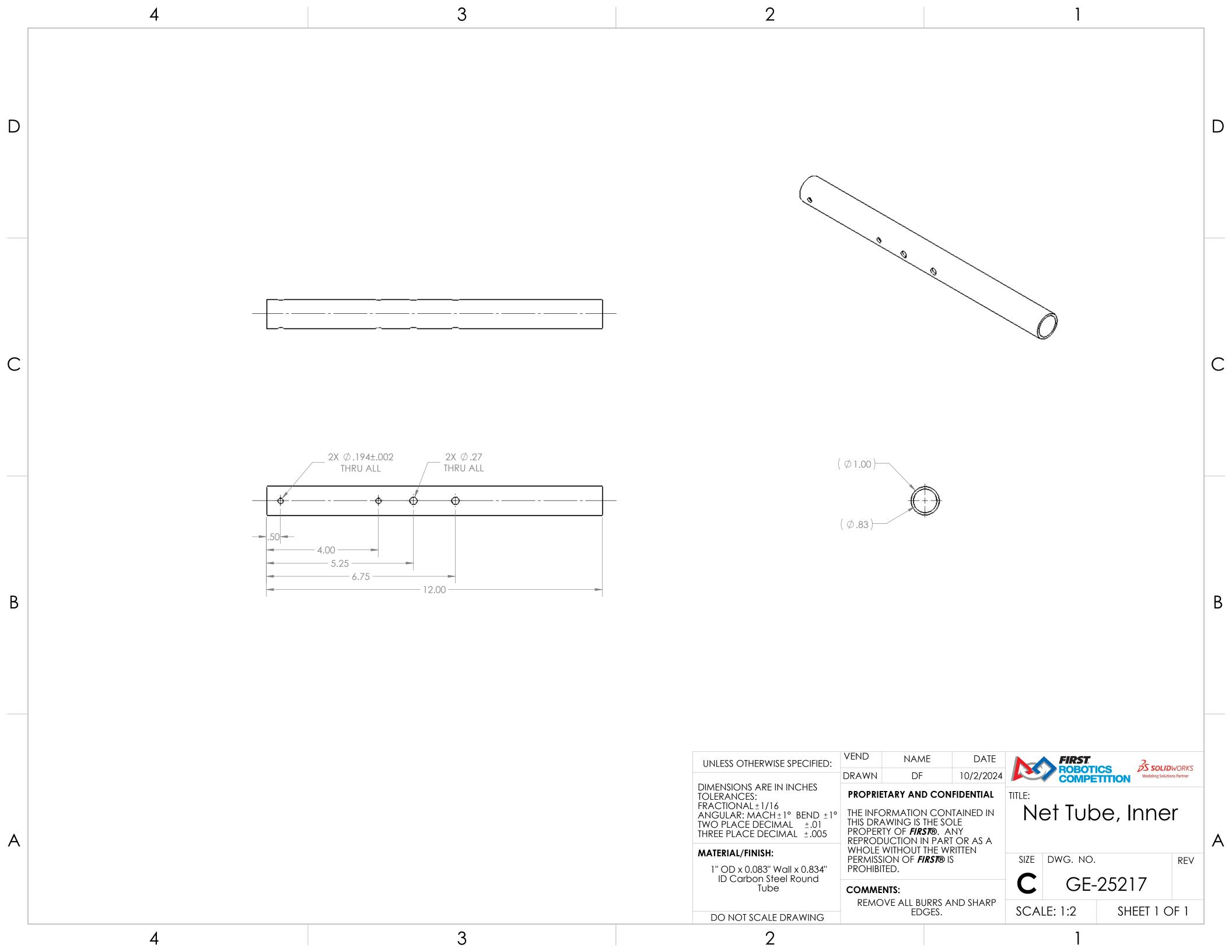


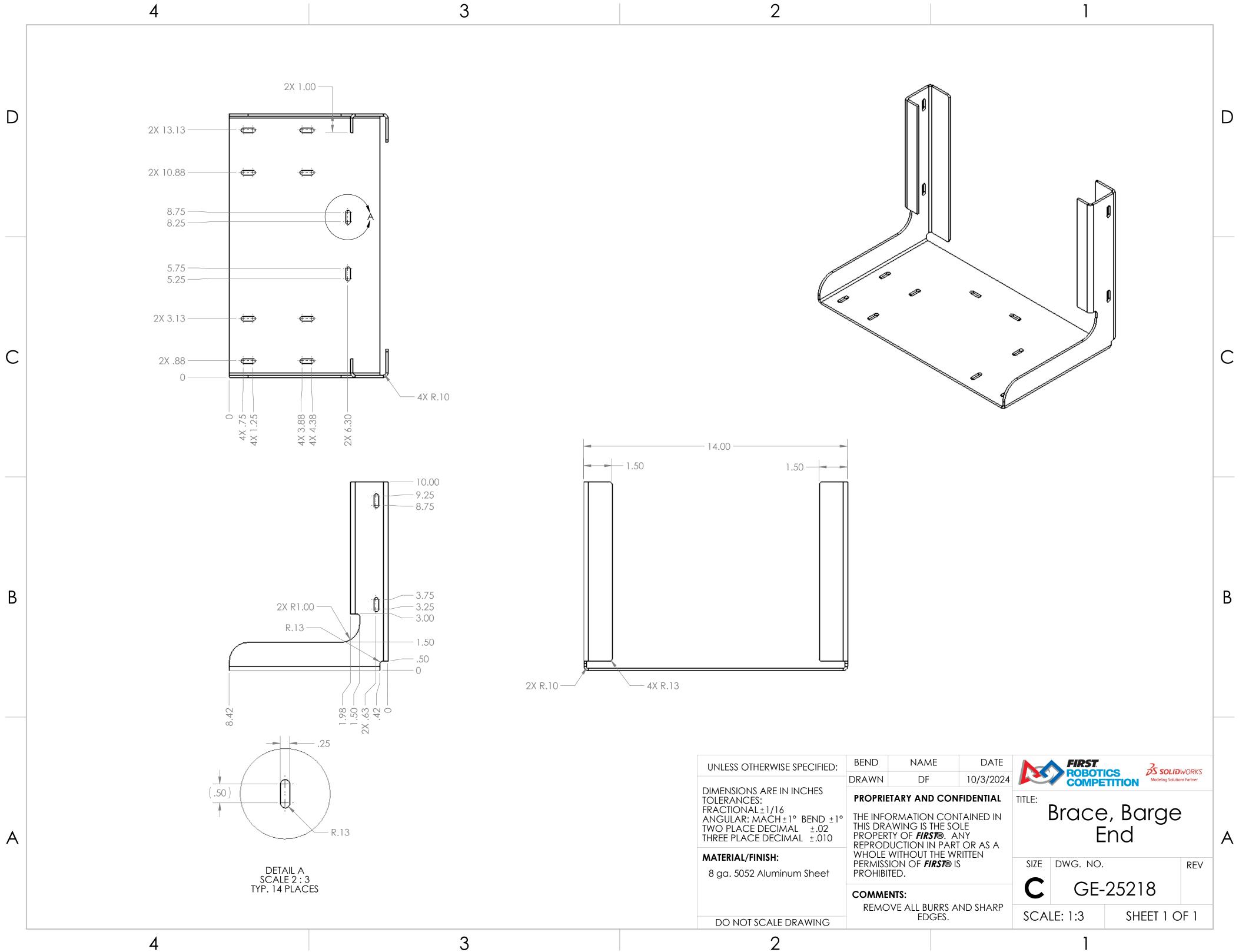
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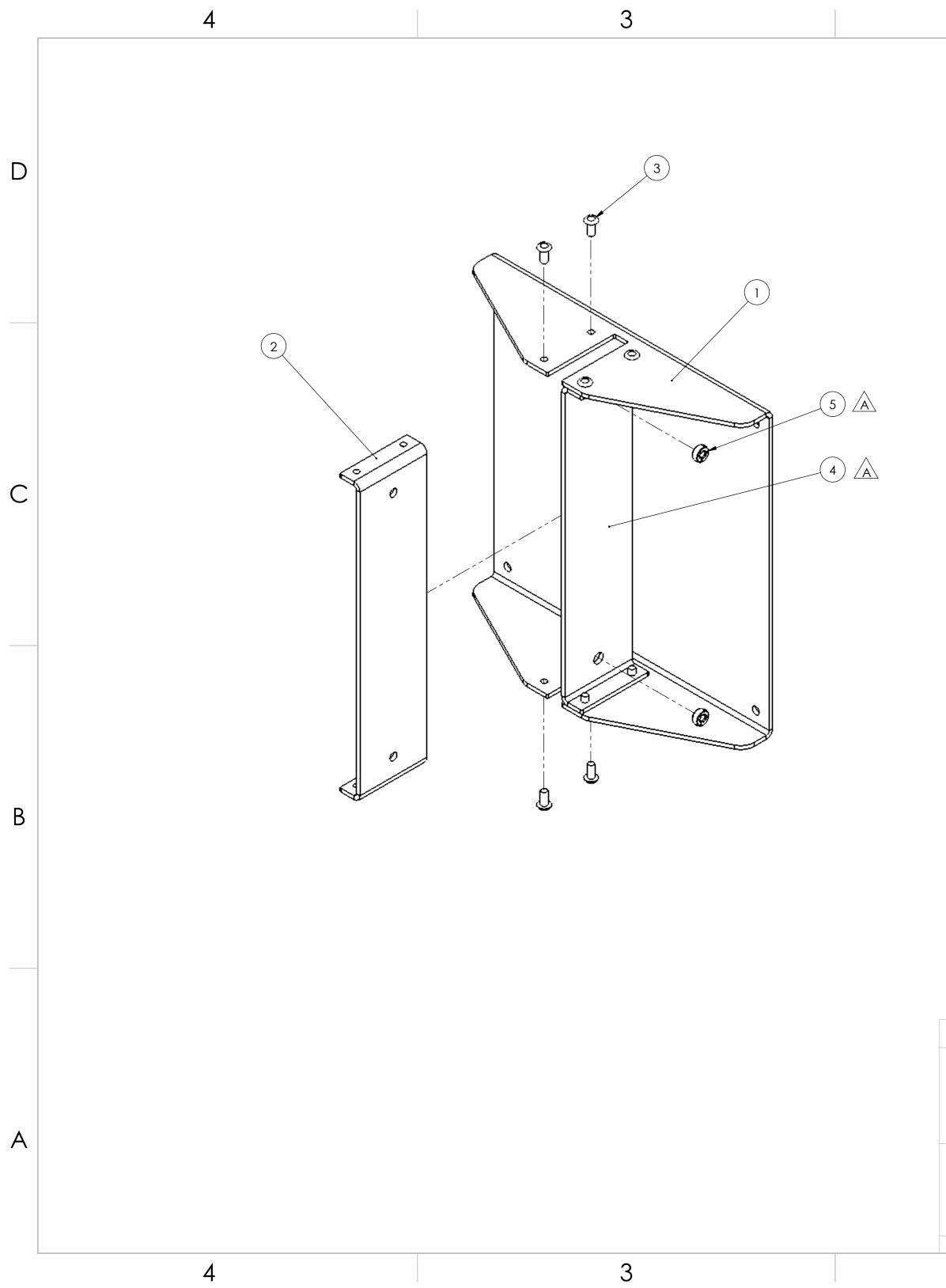
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UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST.		S SOLIDI		
	DRAWN	DF	10/2/2024		ROBOT	TITION	Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TITLE: HE INFORMATION CONTAINED IN HIS DRAWING IS THE SOLE ROPERTY OF <i>FIRST®</i> . ANY EPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN							A
MATERIAL/FINISH:	PERMISS	ION OF FIRST® IS		SIZE	DWG. NO.			REV	
1" EMT Conduit, Galvanized	PROHIBI	IED.				0501	,		
	COMME	NTS:			GE-	2521	6		
	REMC	VE ALL BURRS A EDGES.	ND SHARP		E: 1:2	SНЕ	et 1 o)F 1	-
DO NOT SCALE DRAWING		LDOLJ.		3074		5112		· ·	
2					1				





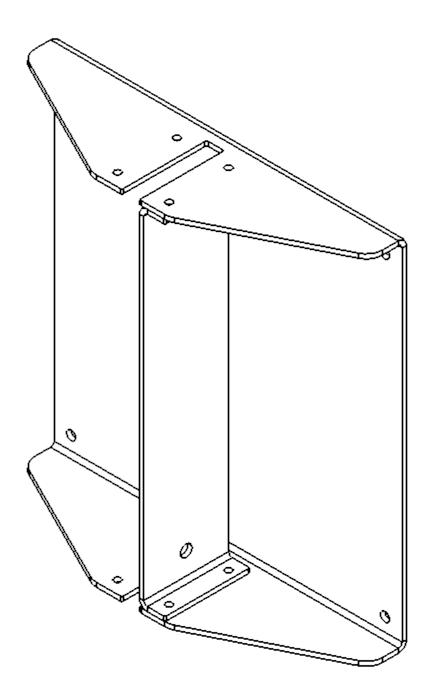


		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
C2, 4- B3	A	Added Items 4 and 5. Added detail views of Item 4 to Sheet 4.	10/10/2024	DAF

D

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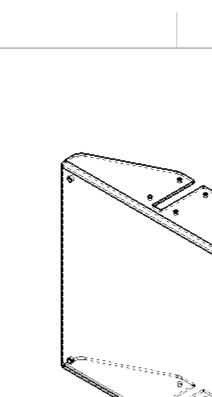


	ITEM N	10.		PART NUMBE	R			DESCRIPTIO	N		QTY.	
	1		GE-25219-01					Mount Fac	е		1	
	2		GE-2	25219-02				Bracket			1	
	3		rivet	187512625			3/16" Rive	et, .12625 (Grip Rang	ge	8	
	4		GE-2	25219-03			Brac	ket with PE	∧ nuts		1	
	5		pen	n_clinchnut25_	_20054	1/-	4-20 self-	clinching nu	ut, .054 sł	nank	2	
UNLESS OTHERWISE SPEC	CIFIED:	BEI	١D	NAME	DAT	E		FIRST. ROBOT		S SOLID	WORKS	
		DRA	WN	DF	10/3/20	24			TITION	Modeling Solutio		
DIMENSIONS ARE IN INCH TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BE TWO PLACE DECIMAL THREE PLACE DECIMAL	END ±1° ±.02	THE THIS PRC	ROPRIETARY AND CONFIDENTIAL HE INFORMATION CONTAINED IN HIS DRAWING IS THE SOLE ROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A			1	TITLE: HC	older,	Ap	ril Tc	g	Α
MATERIAL/FINISH:		WH	IOLE	WITHOUT THE WE SION OF FIRST® IS	RITTEN		SIZE	DWG. NO.			REV	, ,
8 ga. 5052 Aluminum Sl	heet		CHIBI								KL V	
			MME				C	GE-	2521	9	A	
do not scale draw	/ING	F	REMC	DVE ALL BURRS A EDGES.	nd shar	P	SCAL	E: 1:2	SH	eet 1 C)F 4	
2								1				-

3 4 - 4.00 - 2X 4.37 - 4.87 - 5.39 - 2X 5.89 - 6.25 \bigcirc D - 4X ∅.194±.002 THRU ALL 3.00 -2X 2.63 --ф-\$ – 4X R.50 2X 1.00 — 2X .88 — .50 — 0 ф-\$ – 4X R.05 С ÷ Ð — 4X ∅.27 THRU 2X 9.88 1 В _____ 2X .63 ÷ ·⊕· **-** 2X .50 – 2X 9.75 — — 10.25 — А

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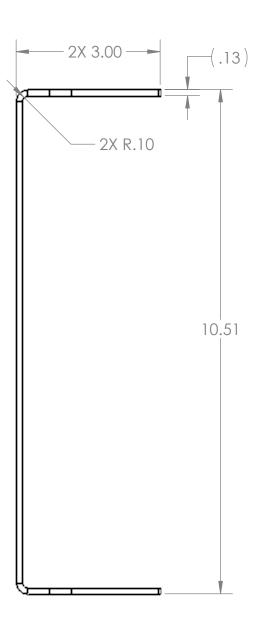


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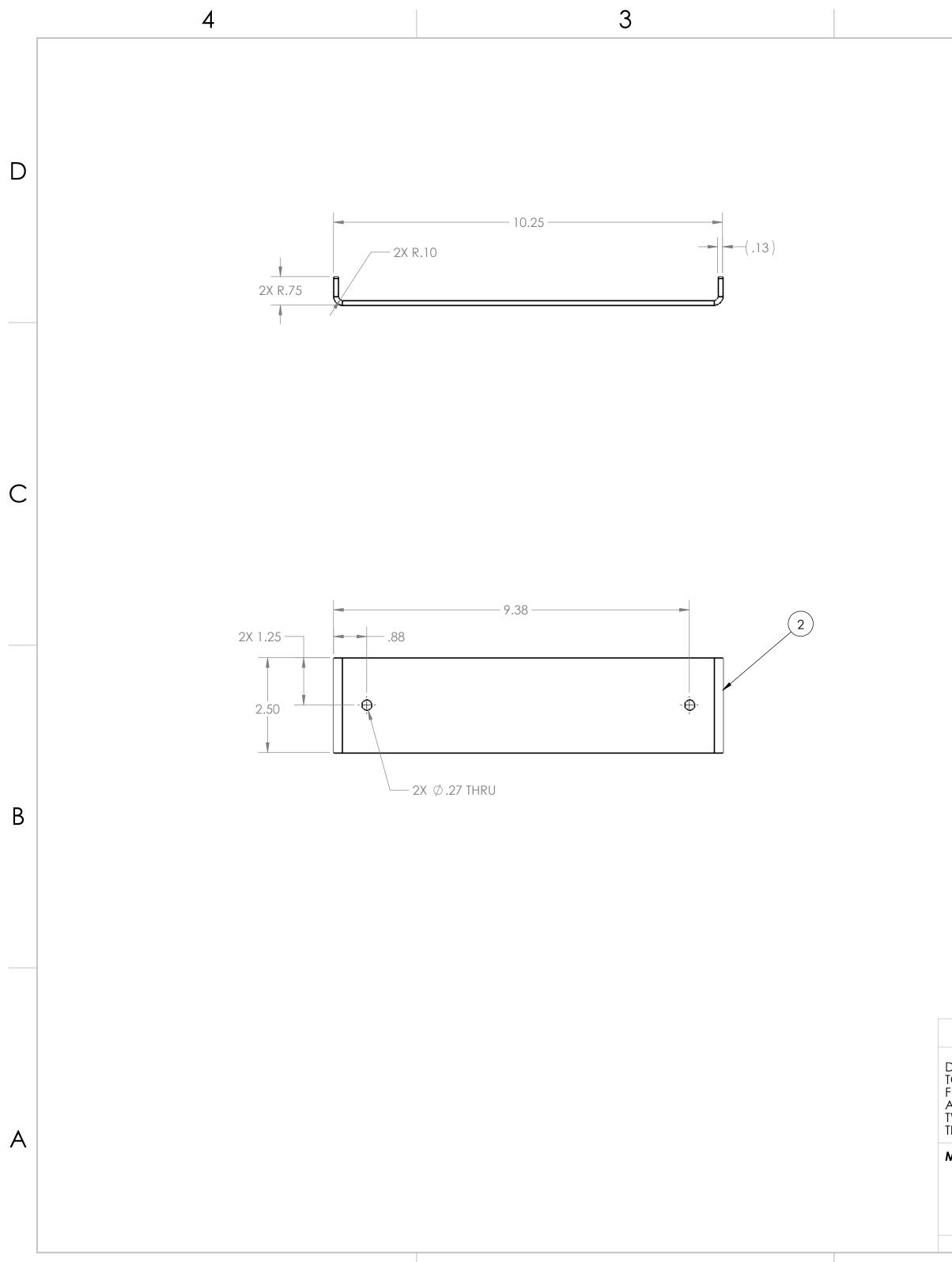
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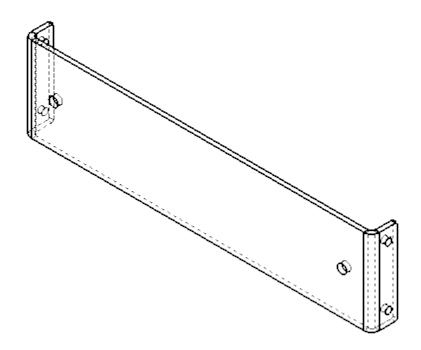
2



UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE					
	DRAWN	DF	10/3/2024					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	THE INFO THIS DR/ PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN LE NY OR AS A	Mount Face				
MATERIAL/FINISH:		WITHOUT THE WE ION OF FIRST® IS		SIZE	DWG. NO.		REV	-
8 ga. 5052 Aluminum Sheet	PROHIBI				~ ~ ~			
	COMME	NTS:		C	GE-2	5219-01	A	
	REMC	VE ALL BURRS A EDGES.	ND SHARP	SCA	LE: 1:2	SHEET 2 C)F 4	1
DO NOT SCALE DRAWING				00/1				
2					1			



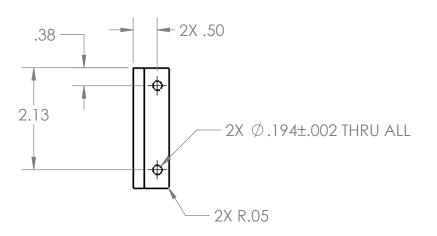
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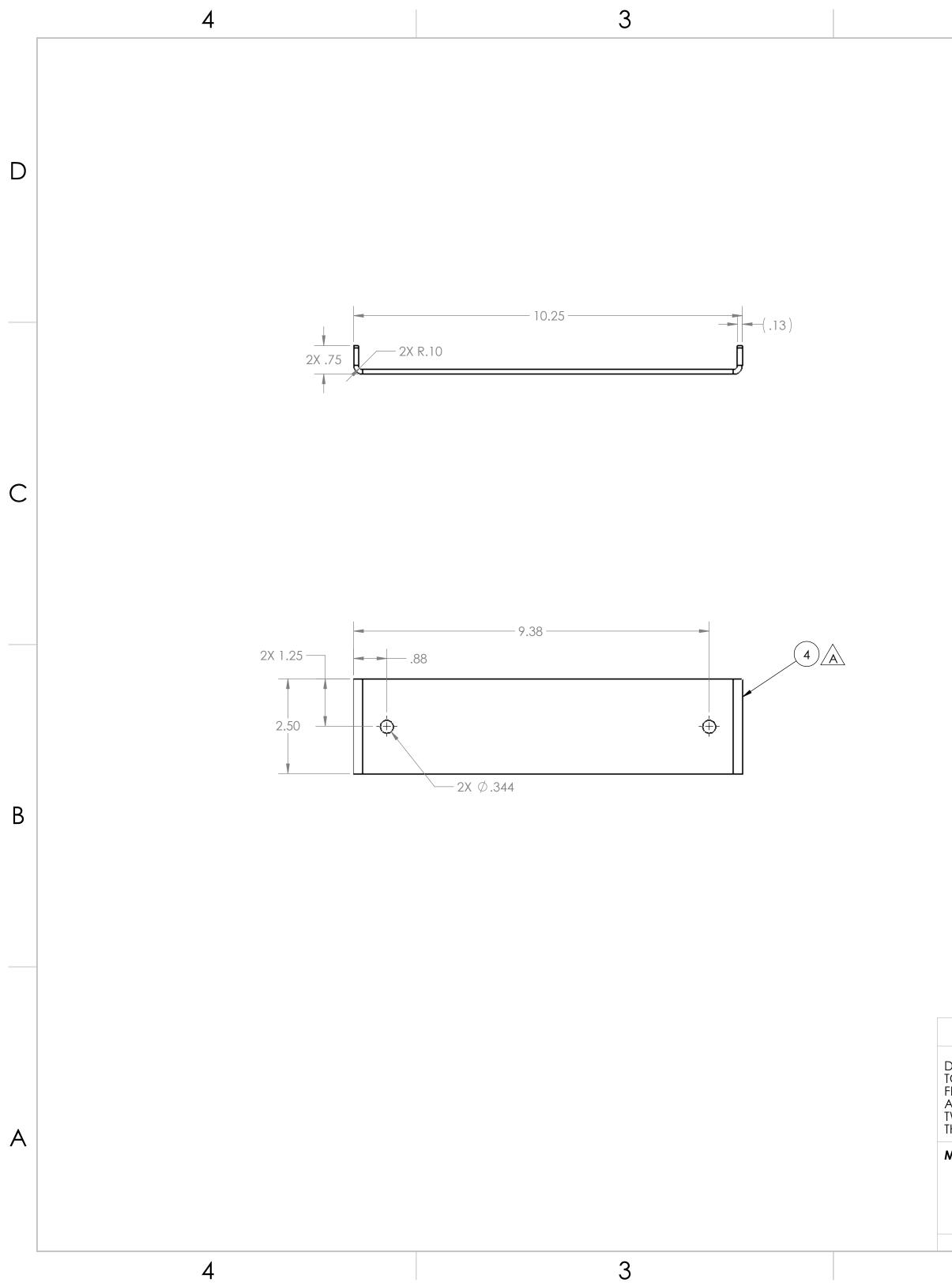
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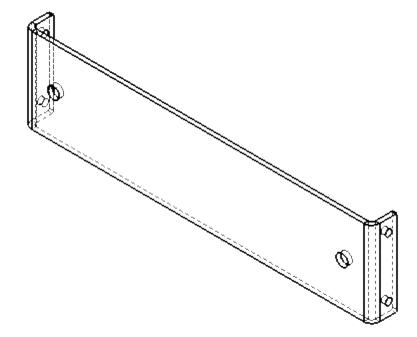
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UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE					
	DRAWN	DF	10/3/2024					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	THE INFO THIS DRA PROPER	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN ILE NY	Bracket				
MATERIAL/FINISH: 8 ga. 5052 Aluminum Sheet	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.		REV	
	COMME	NTS:		C	GE-2	5219-02	A	
DO NOT SCALE DRAWING	REMC	VE ALL BURRS A EDGES.	ND SHARP	SCA	LE: 1:1	SHEET 3 C	DF 4	
2					1			

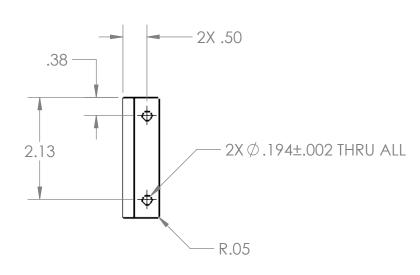




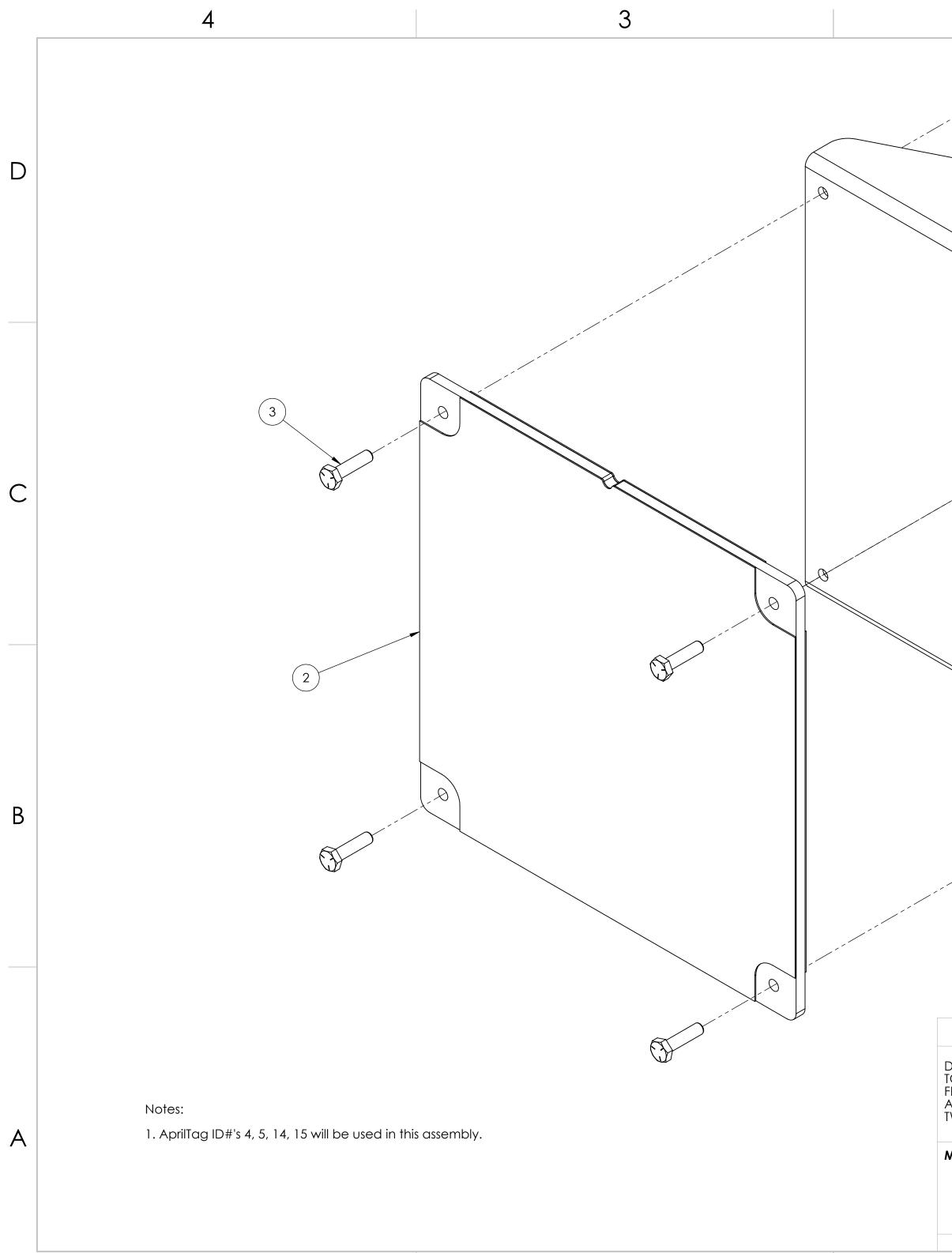
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UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE					
	DRAWN	DF	10/3/2024					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.02 THREE PLACE DECIMAL±.010	THE INFO THIS DRA PROPER	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN ILE NY	Bracket with PEM nuts				
MATERIAL/FINISH:	-	WITHOUT THE WE ION OF FIRST ® IS		SIZE	DWG. NO.		REV	<i>,</i> , ,
8 ga. 5052 Aluminum Sheet	PROHIBI)	SIZE			KE V	
	COMME	NTS:		C	GE-2	5219-03	A	
	REMC	VE ALL BURRS A	ND SHARP	500	E: 1:1	SHEET 4 C		
DO NOT SCALE DRAWING		EDGES.		JCA		JILLI 4 C	Л 4	
2					1			



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	1		4		D
		(D)			
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		, D			
	0				В
ITEM NO.	PART NUMBER	DE	SCRIPTION	QTY.	
	GE-25219 FE-00083		ler, April Tag	1	
	Configurable Bolt		AprilTag 4-20 Hex Head Bolt	4	
	nylock25_20		nsert Locknut, 1/4"-20	4	
UNLESS OTHERWISE SPECIFIED:	FIELD NAM		FIRST	2	
	DRAWN JO	12/16/2024		S SOLIDWORKS Modeling Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.50 MATERIAL/FINISH:	REPRODUCTION II WHOLE WITHOUT	N CONTAINED IN THE SOLE ST® . ANY N PART OR AS A THE WRITTEN	April Assemb	Tag ly, Truss	А
· - ·	PERMISSION OF FI PROHIBITED.	iksi ® IS	SIZE DWG. NO.	REV	

PERMISSION OF **FIRST®** IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE DRAWING

2

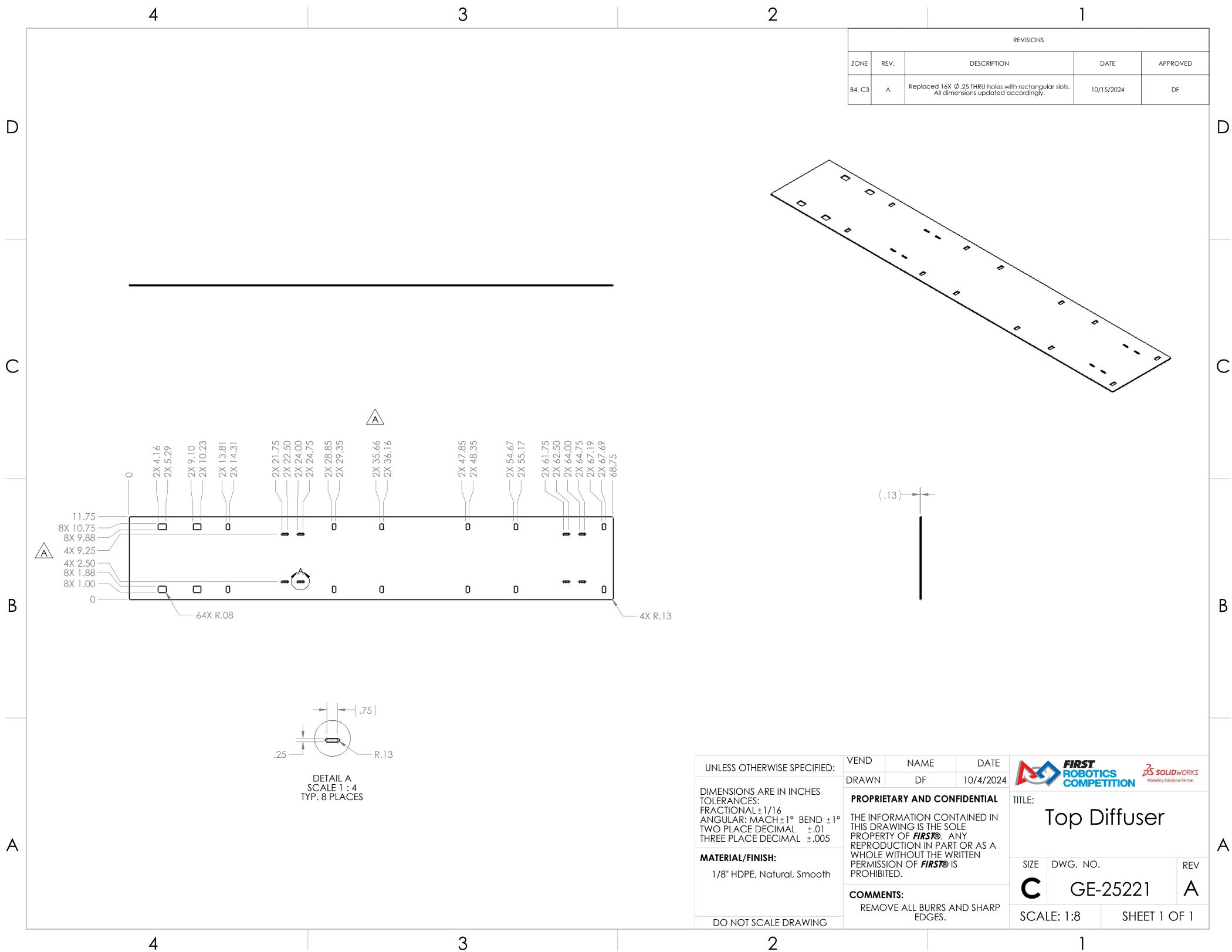
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SCALE: 2:3

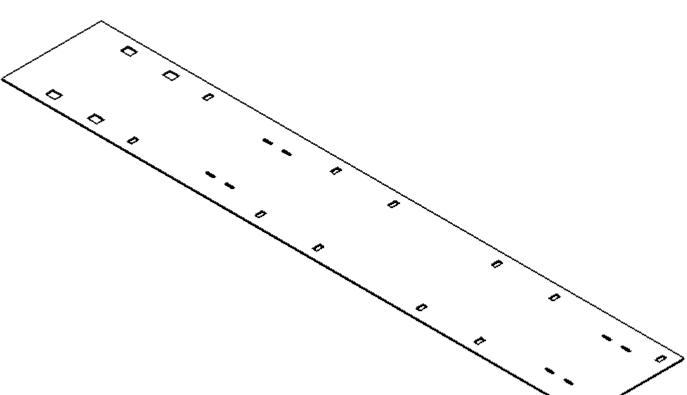
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GE-25220

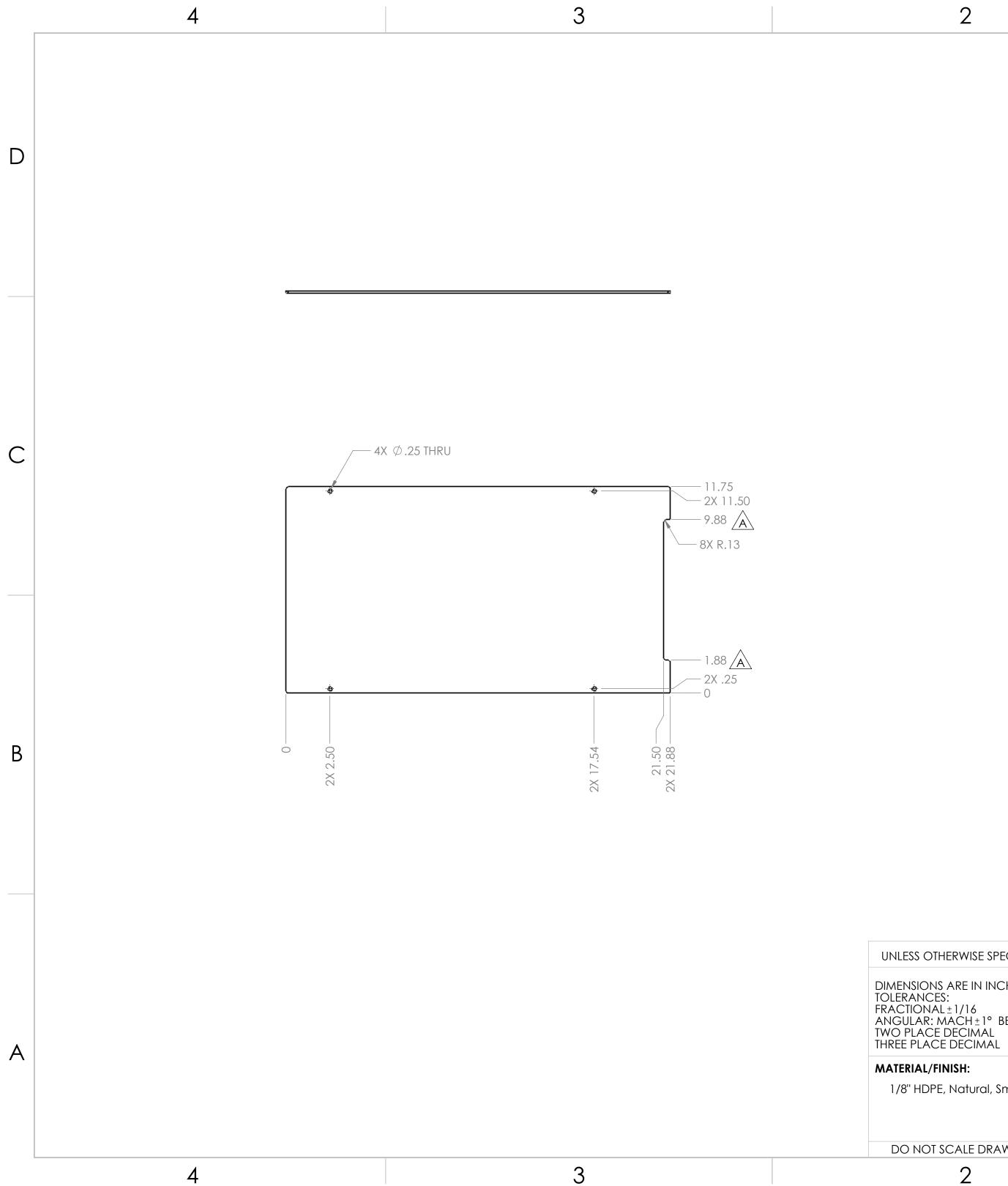
Sheet 1 of 1



		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4, C3	A	Replaced 16X $Ø.25$ THRU holes with rectangular slots. All dimensions updated accordingly.	10/15/2024	DF



(.1	3)—		-	



						1				
					REVISIONS					
	ZONE	REV.		DESCRIPTION			DATE	APPRO	OVED	
	B3, C3	A	9.8	38 was 9.25, 1.88 w	vas 2.5		10/15/2024	DA	۶F	
										D
										С
		-(.13)								В
PECIFIED: ICHES BEND ±1° ±.01 L ±.005	THE IN THIS D PROP REPRO WHOI	N RIETARY IFORMA DRAWINC ERTY OF DDUCTIC LE WITHC	JAME DF AND CON TION CON G IS THE SO FIRST®. AN DN IN PART DUT THE WR	TAINED IN LE NY OR AS A RITTEN		de	Diffus	Bission Solution Modeling Solution	is Partner	A
Smooth	PROH	ission c Ibited.)F first ® IS		SIZE	DWG. I	NU.		REV	

SCALE: 1:4

GE-25222

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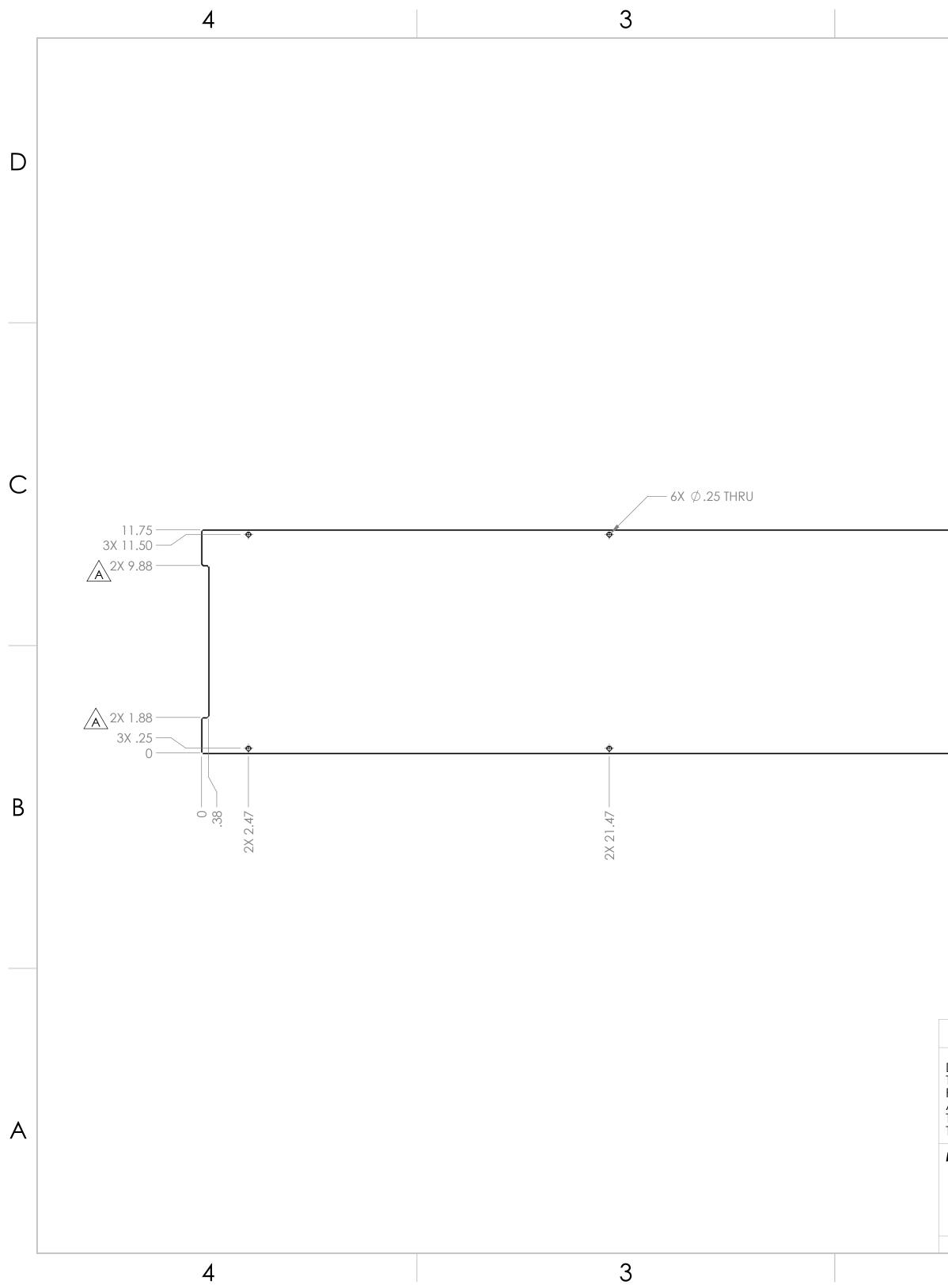
SHEET 1 OF 1

MATERIAL/FINISH: 1/8" HDPE, Natural, Smooth

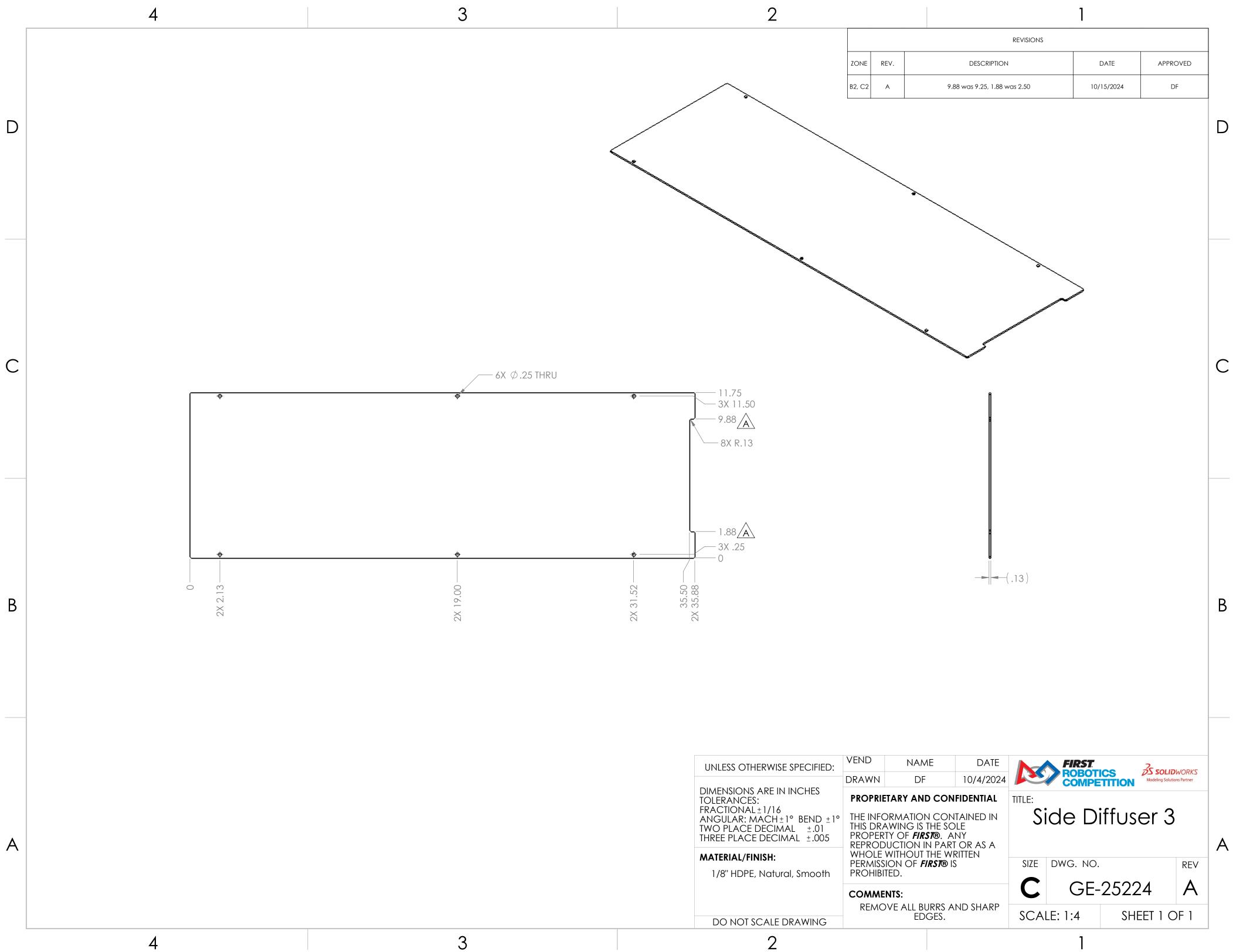
> COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.

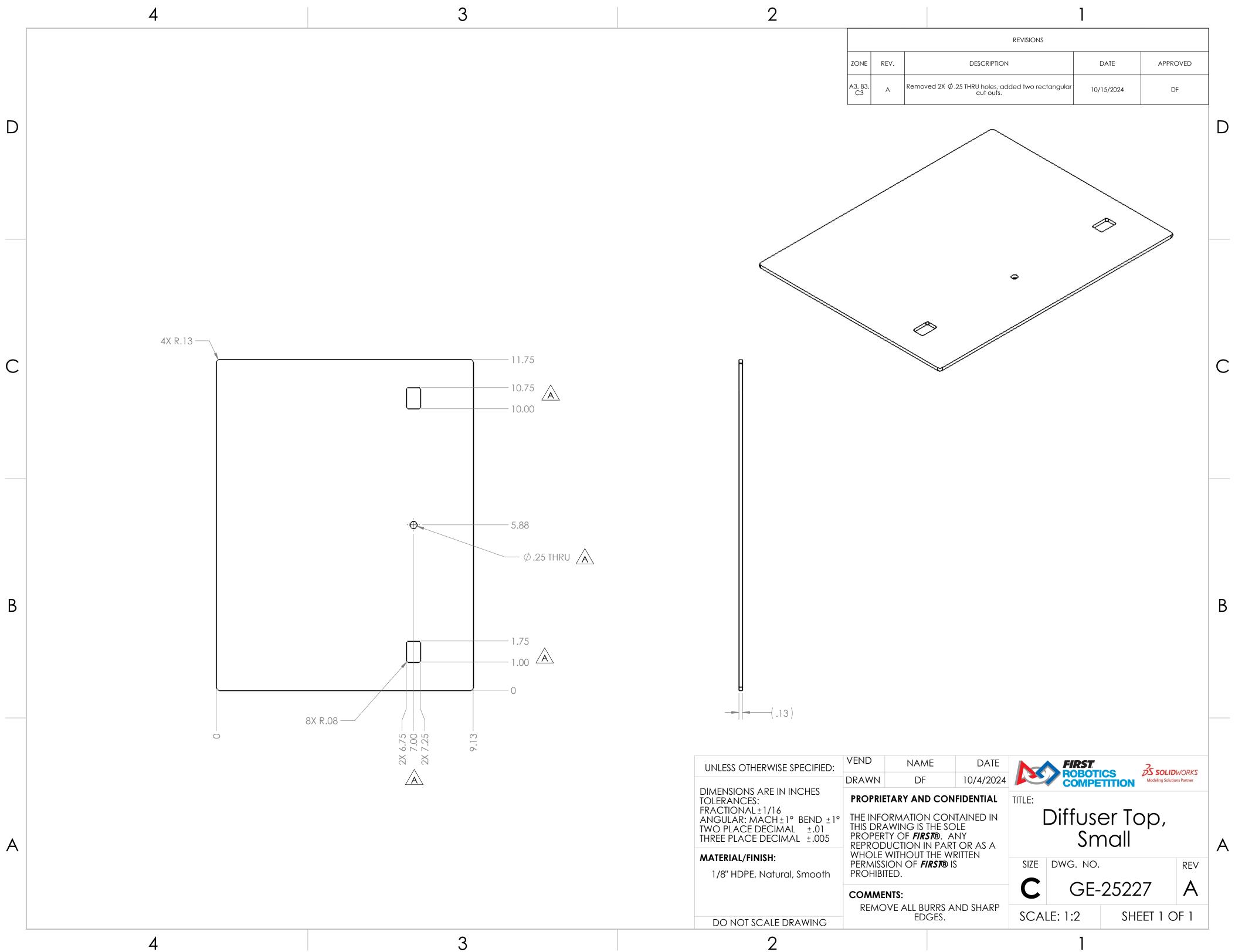
DO NOT SCALE DRAWING

2

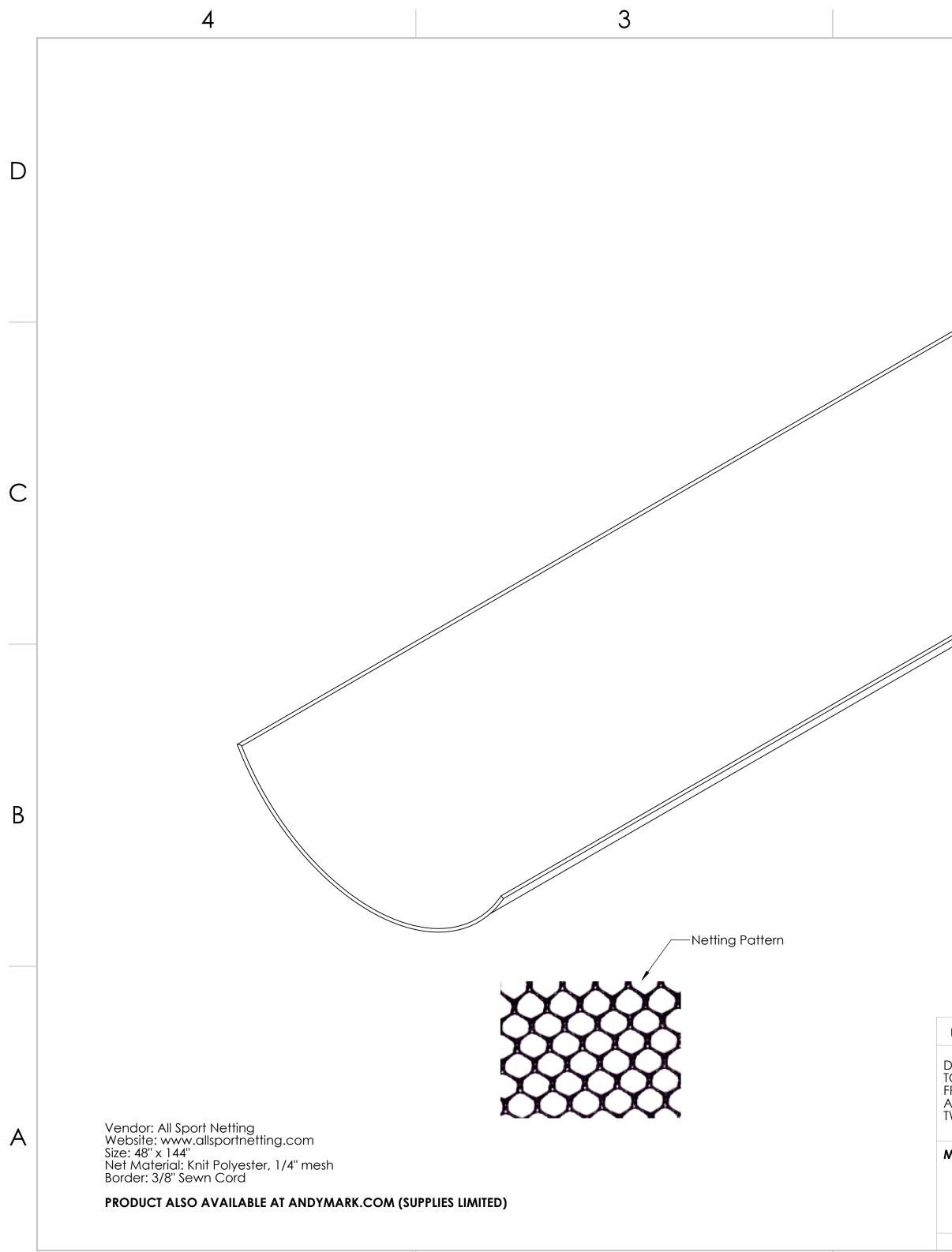


2					1		
				REVISIONS]
	ZONE REV.		DESCRIPTION		DATE	APPROVED	
	B4, C4 A		9.88 was 9.25, 1.88 w	vas 2.5	10/15/2024	DF	
				>			D
◆ 12X R.13				-(.13)			С
2X 40.47 +							В
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005 MATERIAL/FINISH:	THE INFOR THIS DRAW PROPERTY	MATION C /ING IS THE OF FIRST® . CTION IN P, THOUT THE	. ANY ART OR AS A WRITTEN		DWG. NO.		A
1/8" HDPE, Natural, Smooth DO NOT SCALE DRAWING). 'S:	s and sharp	SCAL	GE-2522	23 A EET 1 OF 1	-
2					1		

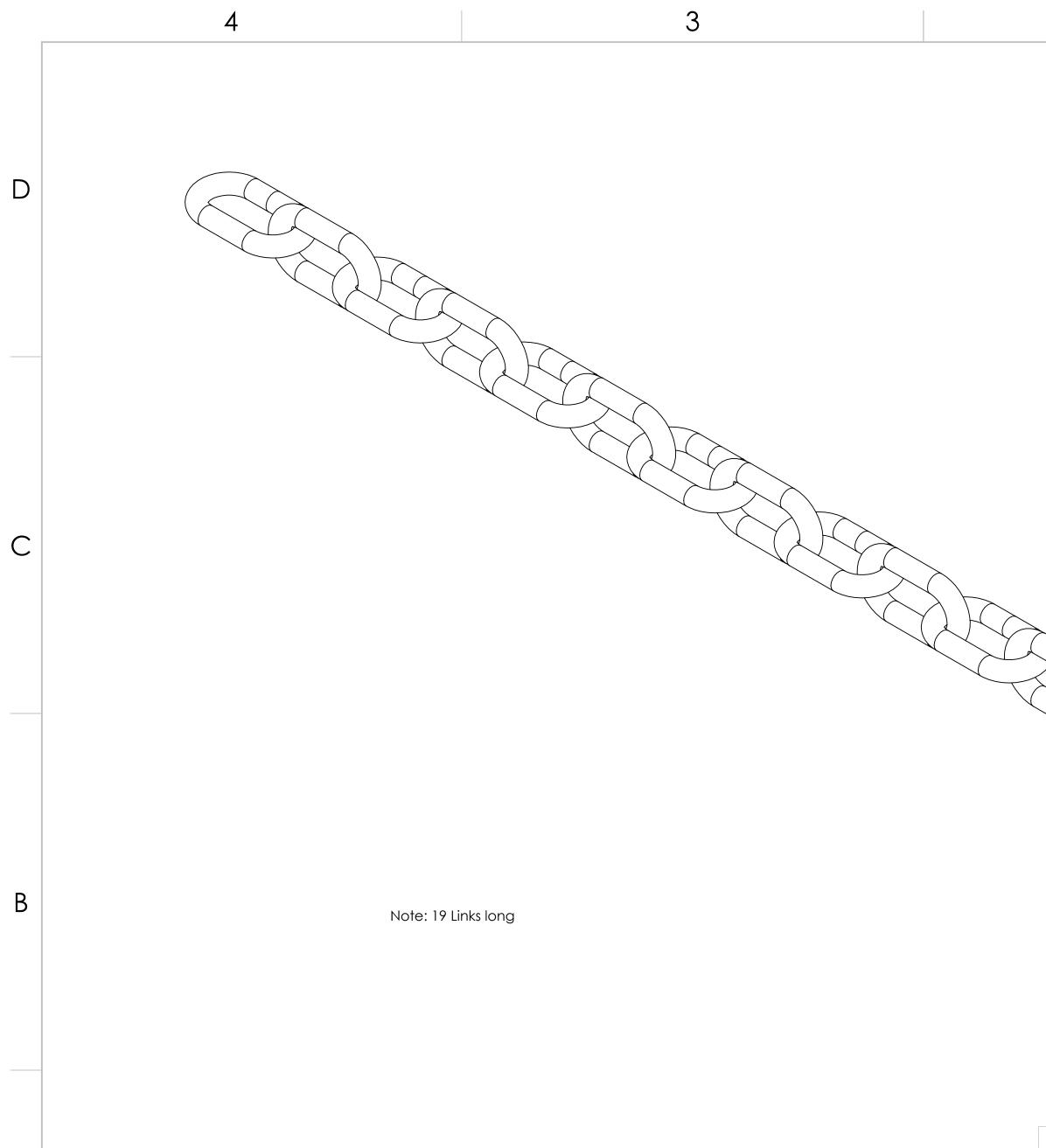




MATERIAL/FINISH:



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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.50	DRAWN PROPRIETARY THE INFORMAT THIS DRAWING PROPERTY OF REPRODUCTIO	TON CONT G IS THE SO FIRST® . At IN IN PART	ained in Le Ny Or as a	TITLE:	FIRST ROBOT COMPE		Solid WORKS Modeling Solutions Partner	A
MATERIAL/FINISH: DO NOT SCALE DRAWING 2	WHOLE WITHC PERMISSION O PROHIBITED. COMMENTS: REMOVE AL	dut the Wr F First ® IS		SIZE C SCA	dwg. no. GE- LE: 1:8 1	2522	REV 8 ET 1 OF 1	_



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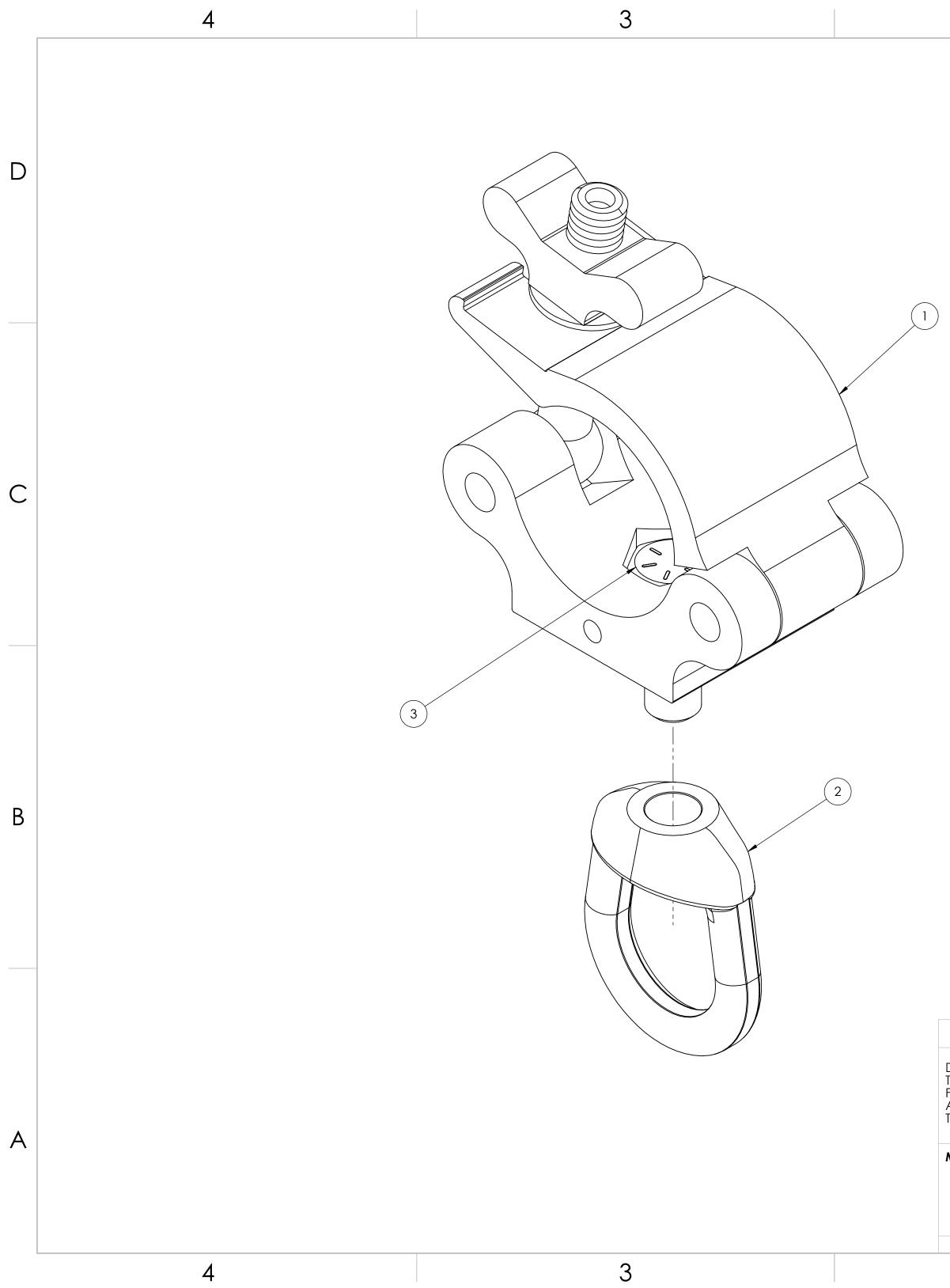
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UNLESS OTHERWISE SPECIFIED:	FIELD	NAME	DATE		FIRST.		S SOLID	LODKS	1
	DRAWN	JO	12/16/2024		ROBOT	TITION	Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.50	THE INFO THIS DRA PROPER				TITLE: Cage Chain				A
MATERIAL/FINISH: Grade 43 Zinc Plated Chain, 1/4'' Trade Size	PERMISS	REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.						REV	, ,
1, 1 11000 0120	COMMENTS:				GE-25229				
DO NOT SCALE DRAWING	REMOVE ALL BURRS AND SHARP EDGES.			SCA	LE: 1:1 SHEET 1 OF 1		DF 1		
2					1				

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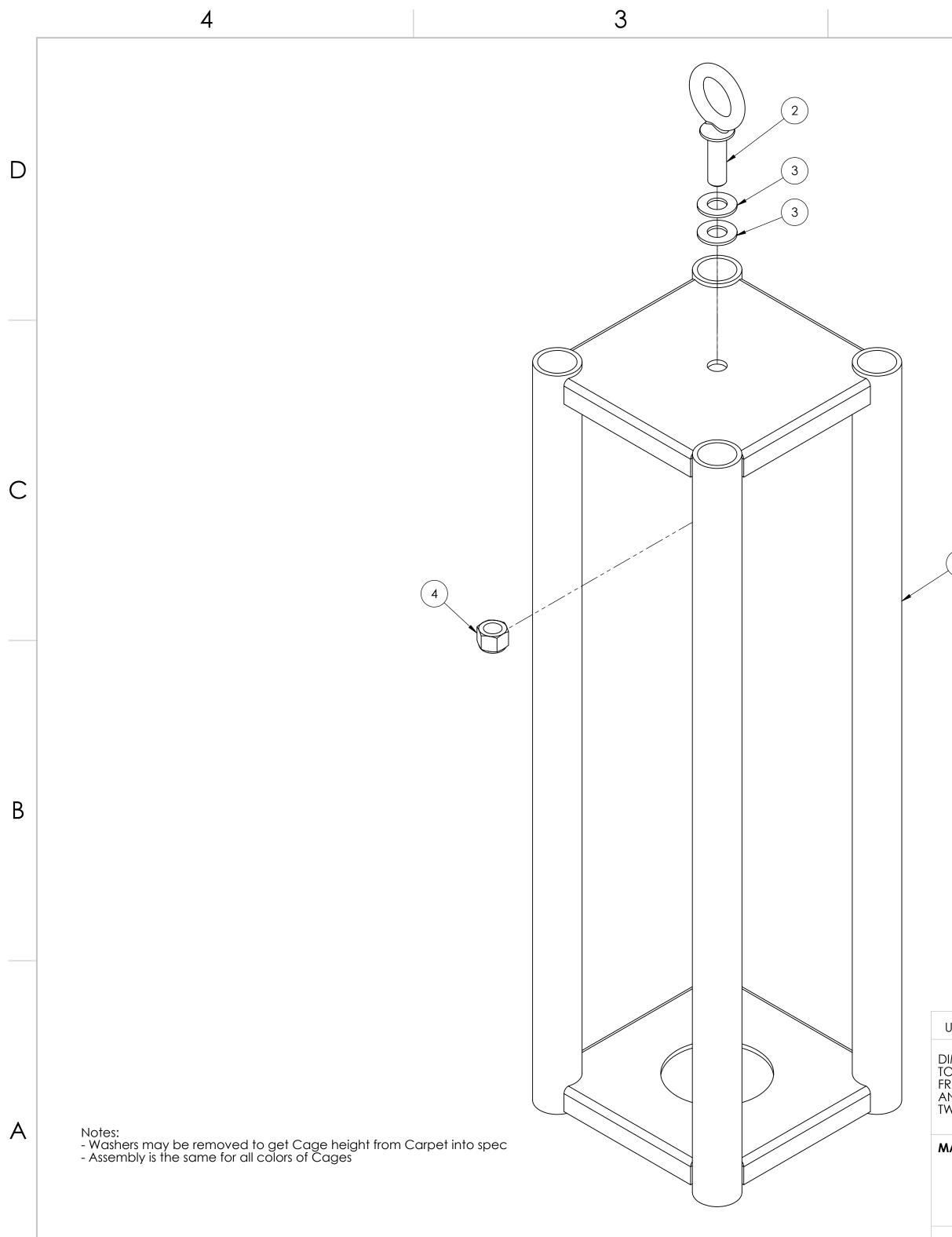
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	ITEM NO.	PART NUM	1BER		DESCRIPTION			
	1	FE-01016		Cheeseb	orough for T	russ _ Single	1	1
	2	3019T18		1/2-13 Go	Ilvanized Ste for Lifting	el Eye Nut -	1	
	3	hex5_13_1.2	5		(Head Screy long, fully th		1	
UNLESS OTHERWISE SPECIFIED	FIELD	NAME	DATE		FIRST.	255	OLID WORKS	
	DRAWN	JO	12/16/20	24 🏴			ng Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES:	PROPRIE	TARY AND CON	FIDENTIAL	TITLE:				
FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.50	THIS DRA PROPERT REPROD	DRMATION CON WING IS THE SC TY OF FIRST® . A UCTION IN PART	LE NY OR AS A		Eye Asse	e Nut embly		A
ANGULAR: MACH ± 1° BEND ±	THIS DRA PROPER REPROD WHOLE	WING IS THE SC TY OF FIRST® . A UCTION IN PART WITHOUT THE WI ION OF FIRST® IS TED.	NY OR AS A RITTEN	size	DWG. NO.	-	REV	A
ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.50	THIS DRA PROPERT REPROD WHOLE PERMISSI PROHIBIT	WING IS THE SC TY OF FIRST® . A UCTION IN PART WITHOUT THE WI ION OF FIRST® IS TED.	ile Ny Or As A Ritten	size	DWG. NO.			A

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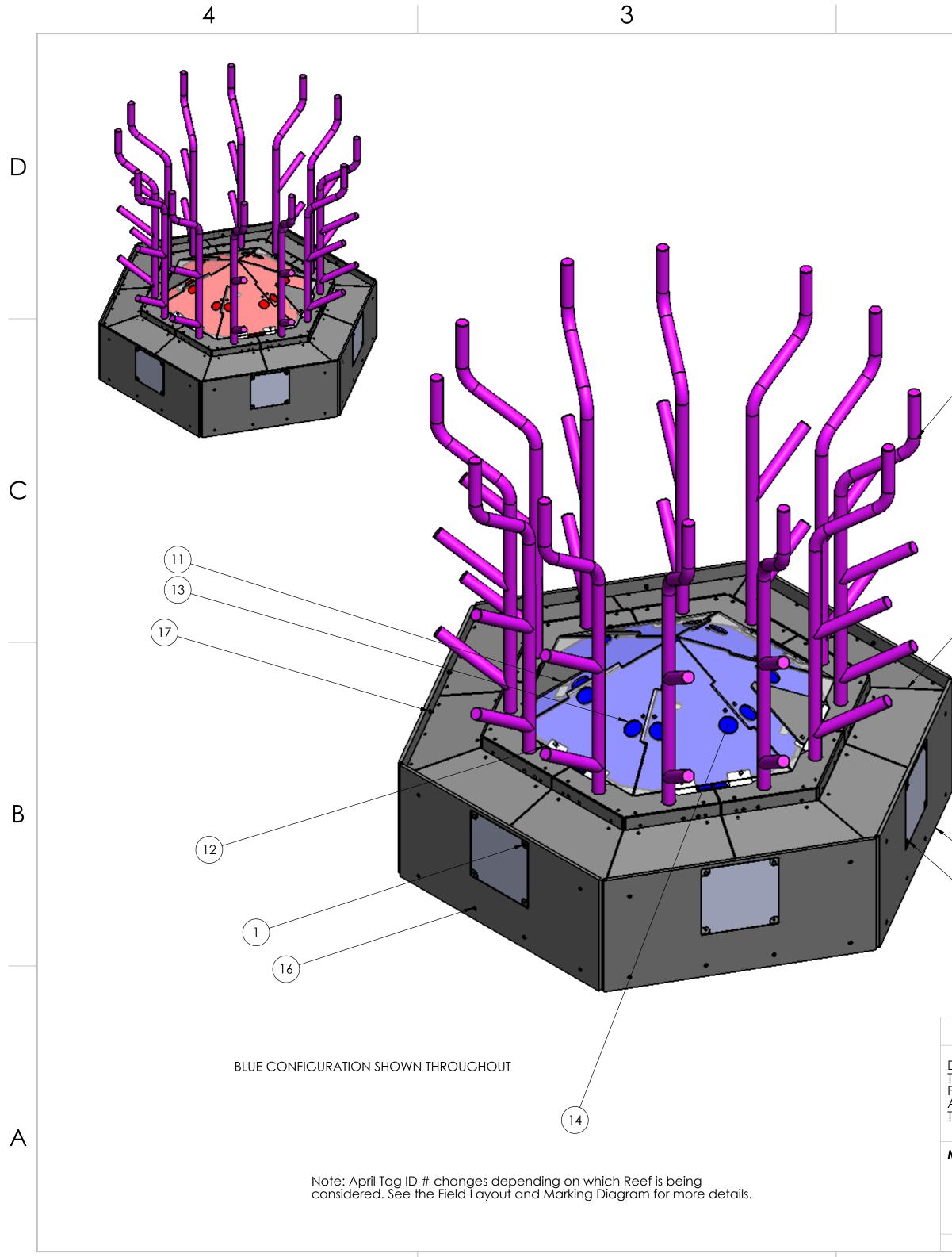
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	ITEM NO.	PA	ART NUMBER		DES	CRIPTION		QTY.	1
	1	GE-252	202		Cage Weldment, Blue			1	
	2	3014T4	3014T491		Steel Eyebolt with Shoulder, 1/2"-13 x 1.5" long, fully threaded Flat Washer for 1/2" Screw				
	3	washer_flat5		FI					1
	4	nylock5_13		steel	nylon-ins	ert locknut,	1/2" - 13	1	
UNLESS OTHERWISE S	PECIFIED:	FIELD	NAME	DATE		FIRST.	255	OLID WORKS	
DIMENSIONS ARE IN IN TOLERANCES: FRACTIONAL ± 1/2 ANGULAR: MACH ± 1° TWO PLACE DECIMAL	NCHES BEND ±1°	THE INFO THIS DR/ PROPER REPROD	DRAWNJO12/16/2024PROPRIETARY AND CONFIDENTIALTHE INFORMATION CONTAINED INTHIS DRAWING IS THE SOLEPROPERTY OF FIRST®. ANYREPRODUCTION IN PART OR AS AWHOLE WITHOUT THE WRITTENPERMISSION OF FIRST® ISPROHIBITED.		DENTIAL TITLE: Y COMPETITION Modeling Sc COMPETITION Modeling Sc COMPETITION Modeling Sc COMPETITION Modeling Sc COMPETITION Modeling Sc COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING COMPETITION MODELING SC COMPETITION MODELING SC COMPETITION MODELING SC COMPETITION MODELING COMPETITION MODELING COMPANY COMPA			ng Solutions Partner	A
					SIZE	DWG. NO.	05001	REV	
					L	GE-	25231		
DO NOT SCALE DRAWING REMOVE ALL BURRS A EDGES.				ND SHAKP	SCA	LE: 1:2	SHEET	1 OF 1	
2						1			

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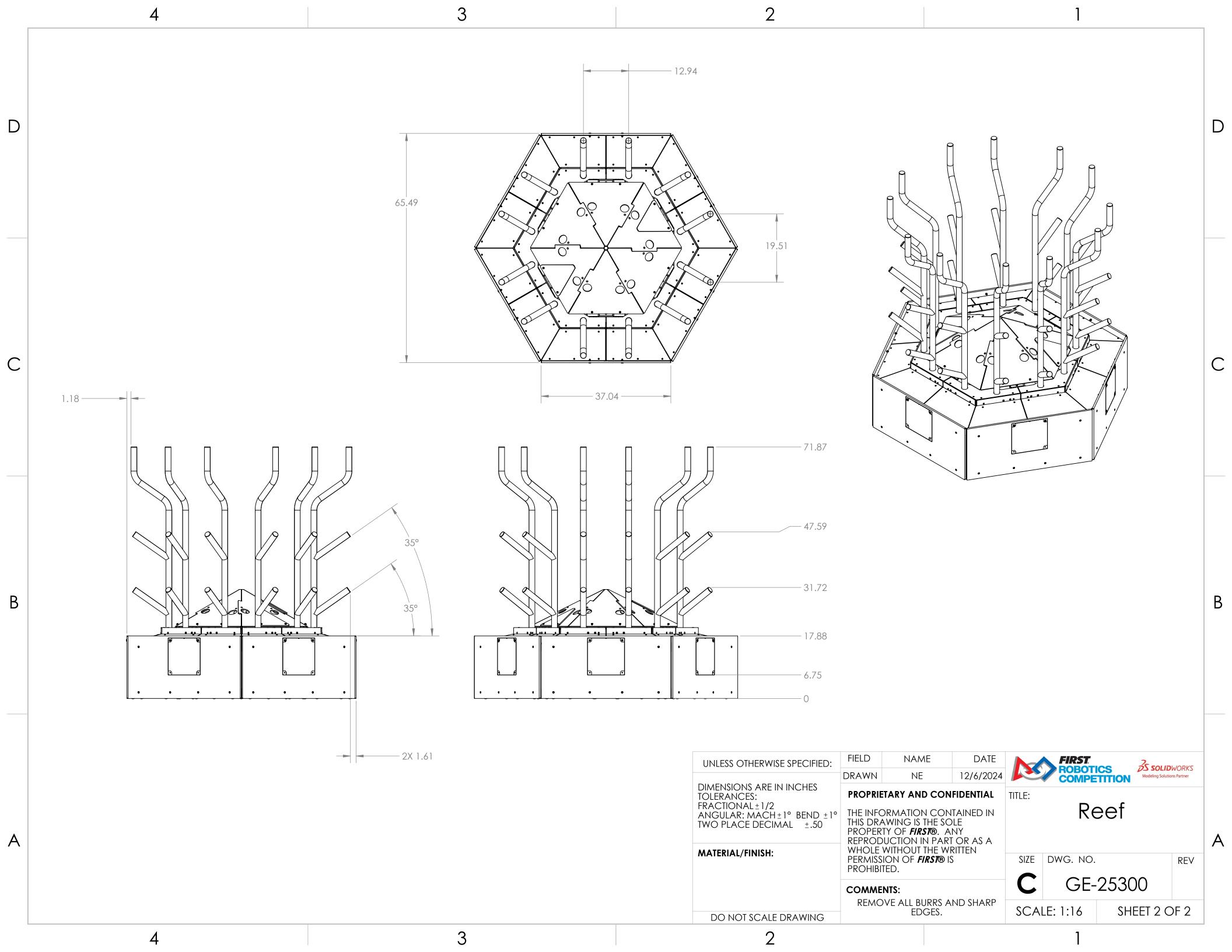
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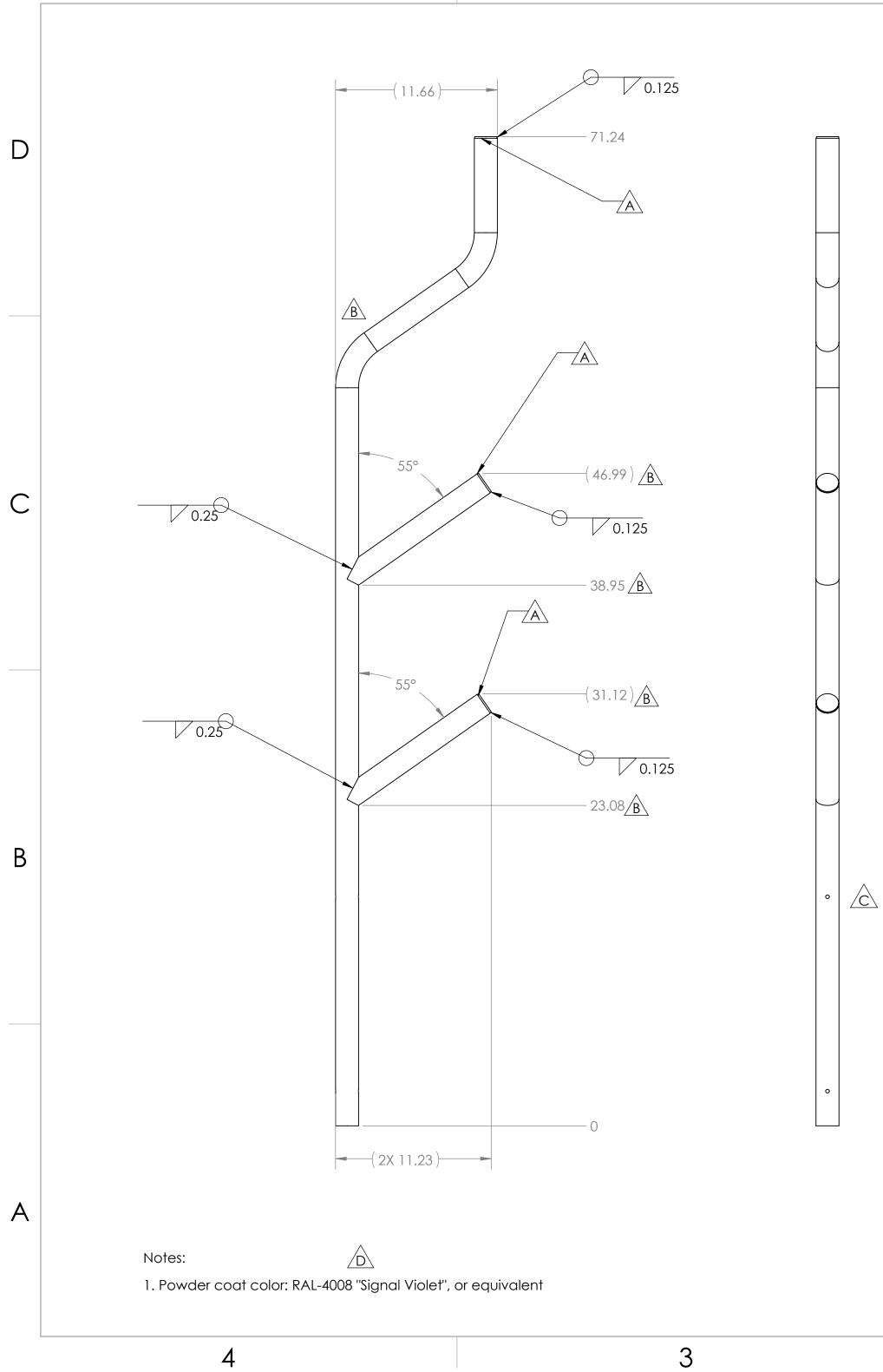
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15	ITEM NO. 1	PART NUM Configurable E		1" Long	DESCRIPTION 1/4-20 Hex H		QTY. 66	-
	2 3 4	FE-00083 FE-00083 FE-00083		AprilTag AprilTag			1	
	4 5 6	FE-00083 FE-00083			AprilTag AprilTag AprilTag			-
	7	FE-00083 GE-25301			AprilTag Scoring Pipe		1	
	9 10	GE-25302 GE-25303		He	6	-		
	11	11 GE-25304		Scorekeeper Triangle Coral Catcher Bracket W PEMs			2	B
(9)	13 14			Coral Catcher Side Hexagon Cover - Blue			6 1	-
2	15 16	GE-25310 flat_phil25_2075		Goal Slice Assembly Steel Phillips Flat Head Screw, 1-4"- 20 x 3/4" long, fully threaded			6 36	
	17	nylock25_20		Steel Nylon-Insert Locknut, 1/4"-20			12	
	18	pin_quick_ring	25_2.5	Pin, Ring-G Ring, 1/4	rip Quick-Rel " Diameter, 2 Length	lease with SS 2.5" Usable	24	
UNLESS OTHERWISE SPECIFIED	: FIELD DRAWN	NAME NE	DATI 12/6/20		FIRST ROBOTIC COMPE		LIDWORKS Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/2 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.50	1° THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON WING IS THE SC TY OF <i>FIRST</i> ®. A UCTION IN PART	TAINED IN DLE NY T OR AS A	Reef				A
MATERIAL/FINISH:	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO. REV			
do not scale drawing		VE ALL BURRS A EDGES.	ND SHARI	SCAI	SCALE: 1:10 SHEET 1 OF 2			
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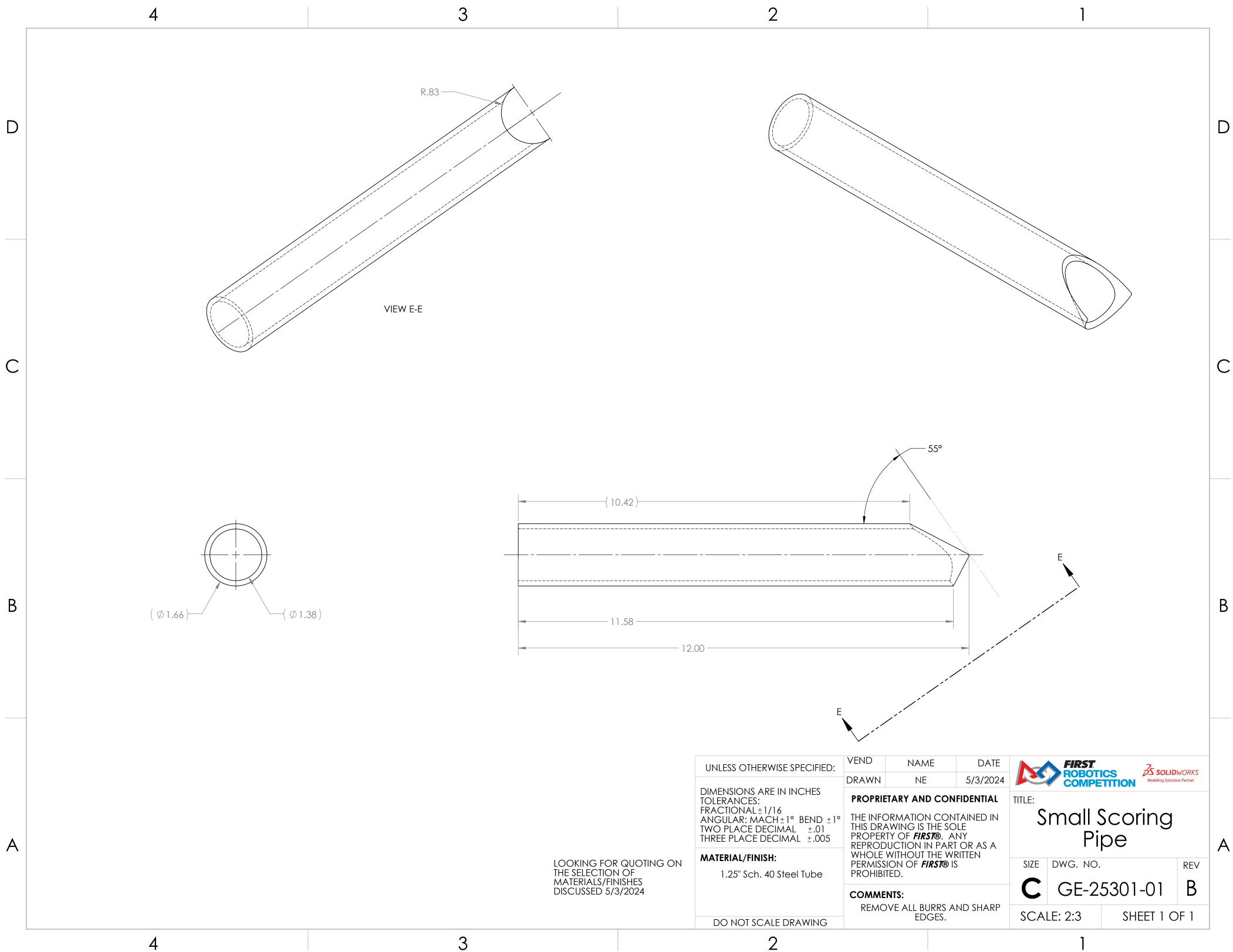


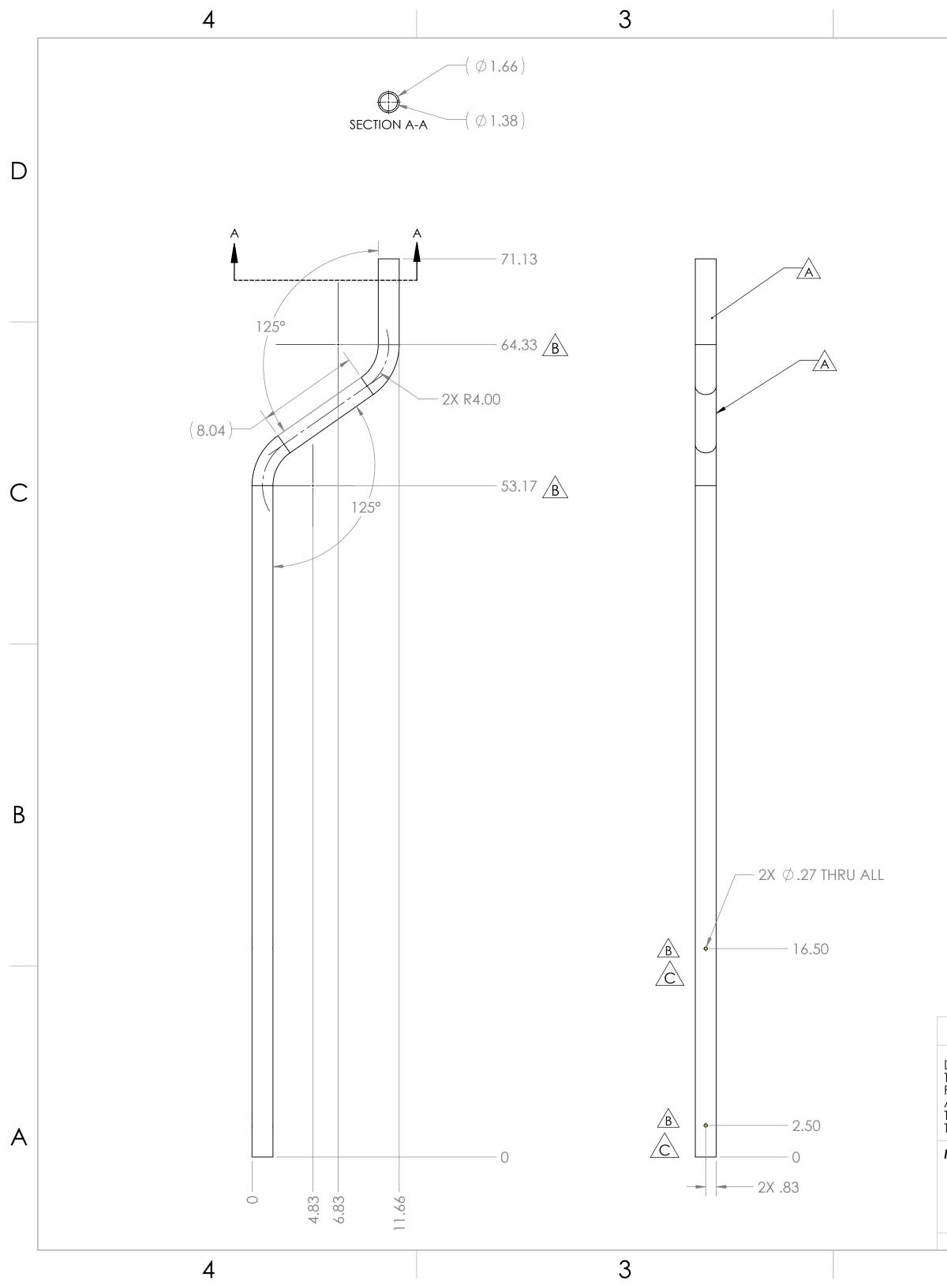






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		RI				REVISIONS					
	ZONE	REV.			DESCRIPTIO	N		DATE	A	PPROVED	
	A2, C3, D2, D3	A	ADDED	GE-25301-	03 TO ASSEMB WELD CALLOI	LY AND ASSO	OCIATED	8/1/2024	NE		
	ВЗ, СЗ, D4	В	GE-2	25301-02 GF LOC/	EOMETRIC CHA	anges and Altered	NGES AND WELD 8/15/2024			NE	
	A2, B2, B3	С	REFLECT	ING GEOM	IETRY CHANGI IE ASSEMBLY L	es to ge-253 evel	301-02 AT	9/19/2024		NE	D
Â	A4	D	RAL 400)8 "Signal Vi	iolet'' was RAL	4003 "Heath	er Violet"	2/18/2025		DF	
		3									
											С
	ITEM N		PAR1 E-25301	T NUMB	ER		DESCR	IPTION ring Pipe		QTY. 2	В
	2		E-2530 E-25301					ring Pipe		2	
	3		E-25301			E	GoalPip			3	
UNLESS OTHERWISE SPECIFIED:	WELD)	NAME	=	DATE		▲ FIR	ST.	2-		1
	DRAW	/N	NE		5/6/2024			BOTICS MPETITION	-	DLID WORKS g Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.015 MATERIAL/FINISH: 1.25" Sch. 40 Steel Tube, Powder Cogted	PROPRIETARY AND CONFIDENTIAL TITLE:							A			
Powder Coated		MENTS: Move A) sharp	C SCA	LE: 1:6	GE-253		D I OF 1	
DO NOT SCALE DRAWING		0									



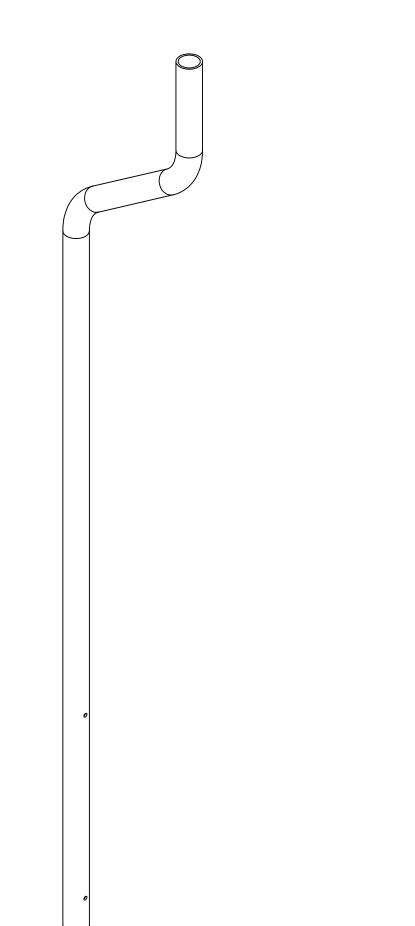


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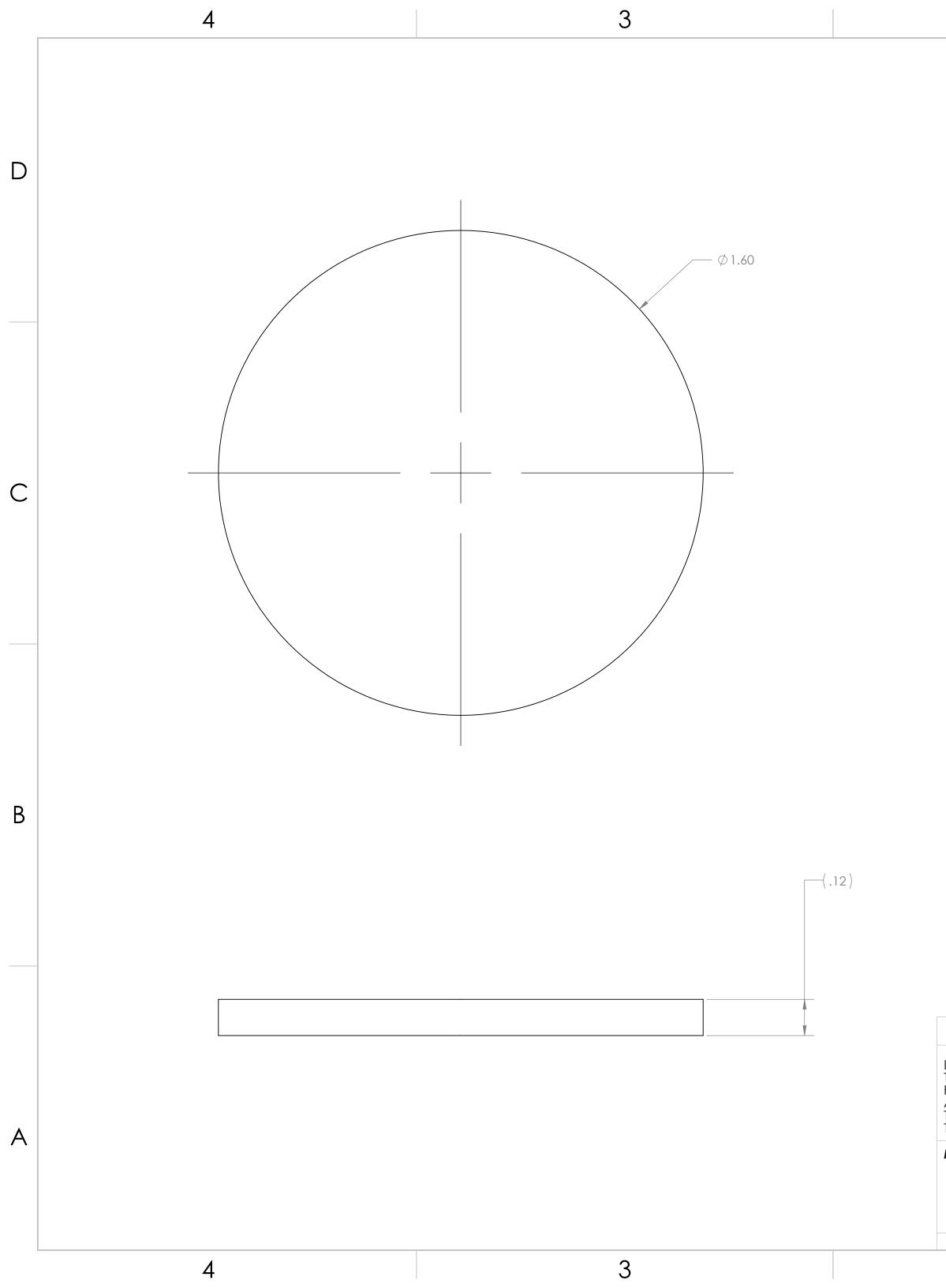
REVISIONS								
ZONE	REV.	DESCRIPTION	DATE	APPROVED				
C3, D3	А	REMOVED SEVERAL HOLES AND RELOCATED REMAINING THRU HOLES	8/1/2024	NE				
A3, B3, C3	В	ALTERED BEND LOCATIONS AND CHANGED HOLES TO SLOTS	8/15/2024	NE	D			
A3	С	REVERTED SLOTS BACK TO HOLES AND REMOVED DETAIL VIEW	9/19/2024	NE				

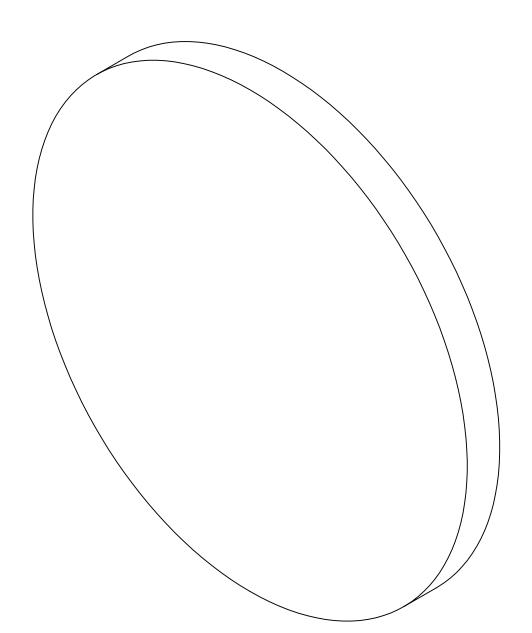
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			A						
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST.		3S SOLID WORKS		
	DRAWN NE 5/3/2024 ROBOTICS DV Modeling Solutions P								
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PART WITHOUT THE WI	Bent Scoring Pipe					A	
MATERIAL/FINISH:	PERMISS	PERMISSION OF FIRST® IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP			DWG. NO	•			
1.25" Sch. 40 Steel Tube					C GE-253			С	
	REMC				E. 1.4	Sheet 1 of 1			
DO NOT SCALE DRAWING		EDGES.		SCALE: 1:6		51	SHEEL LOF L		
2					1				





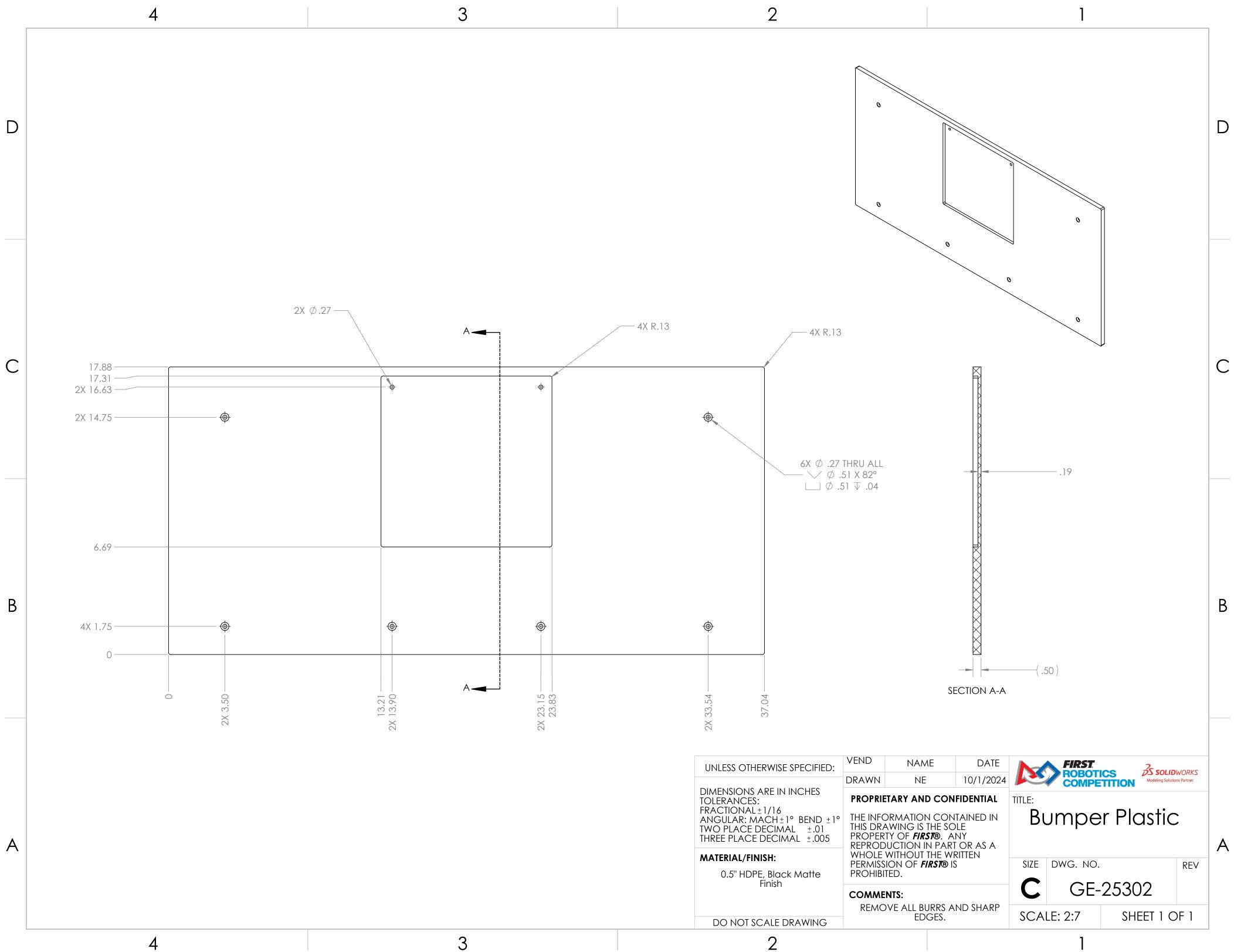
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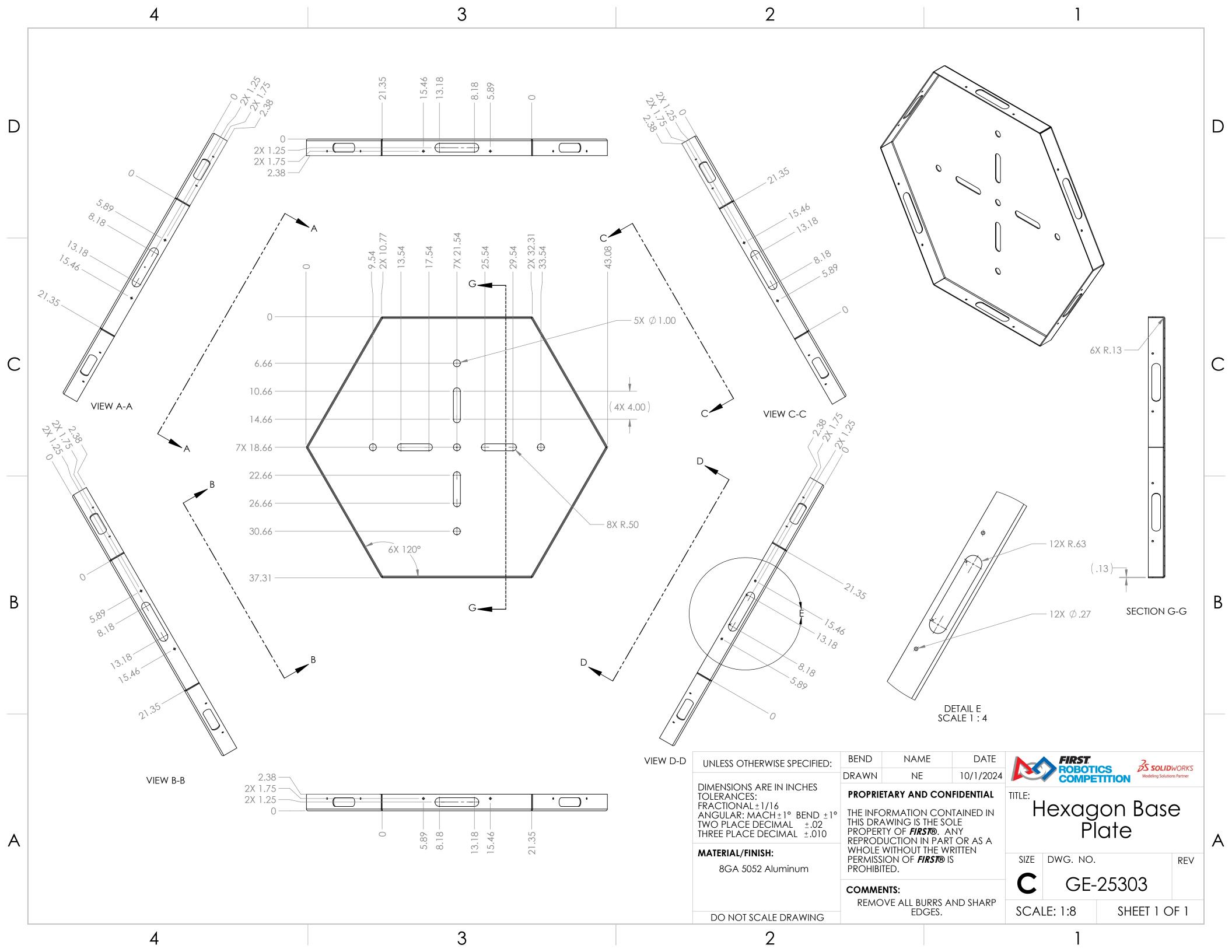
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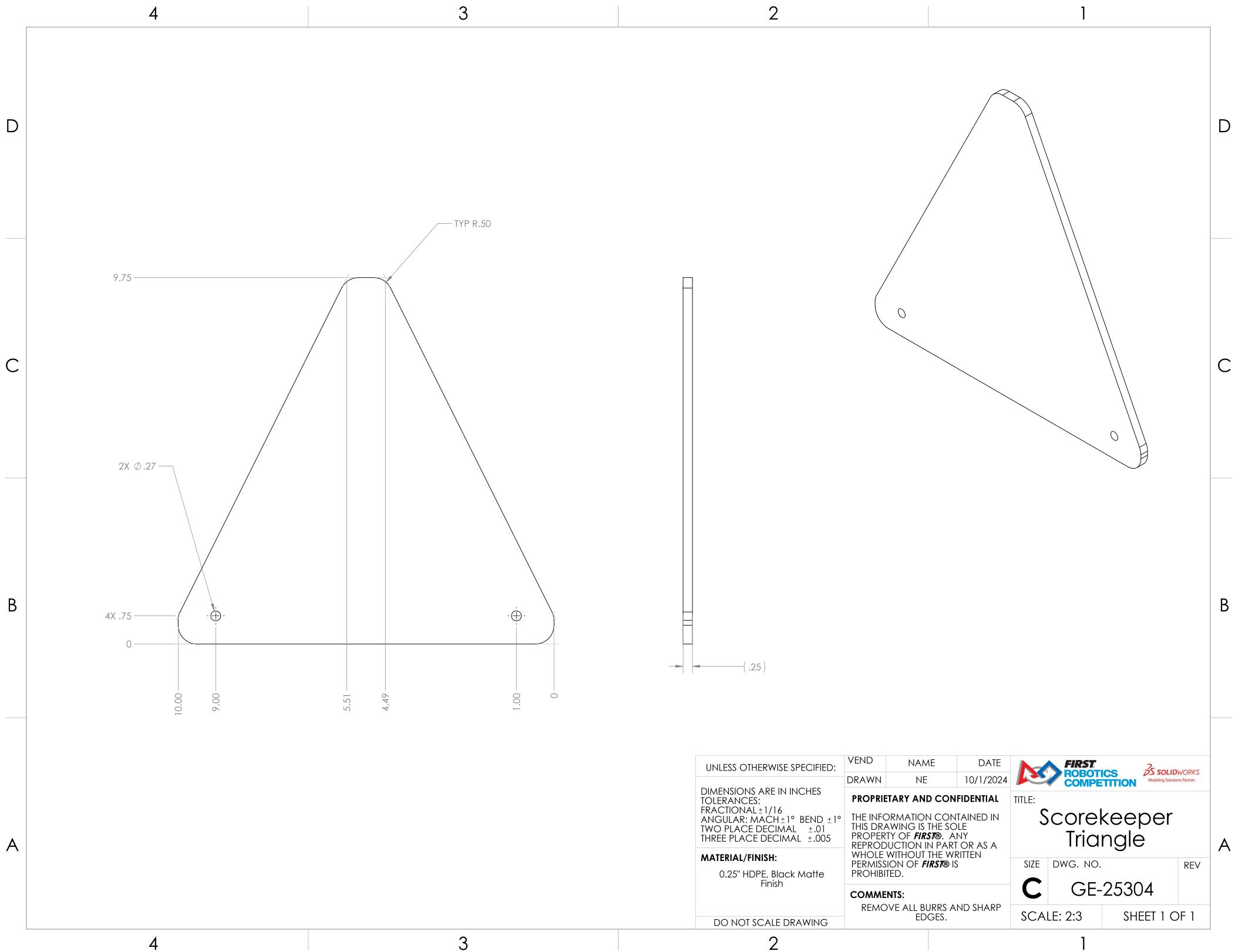
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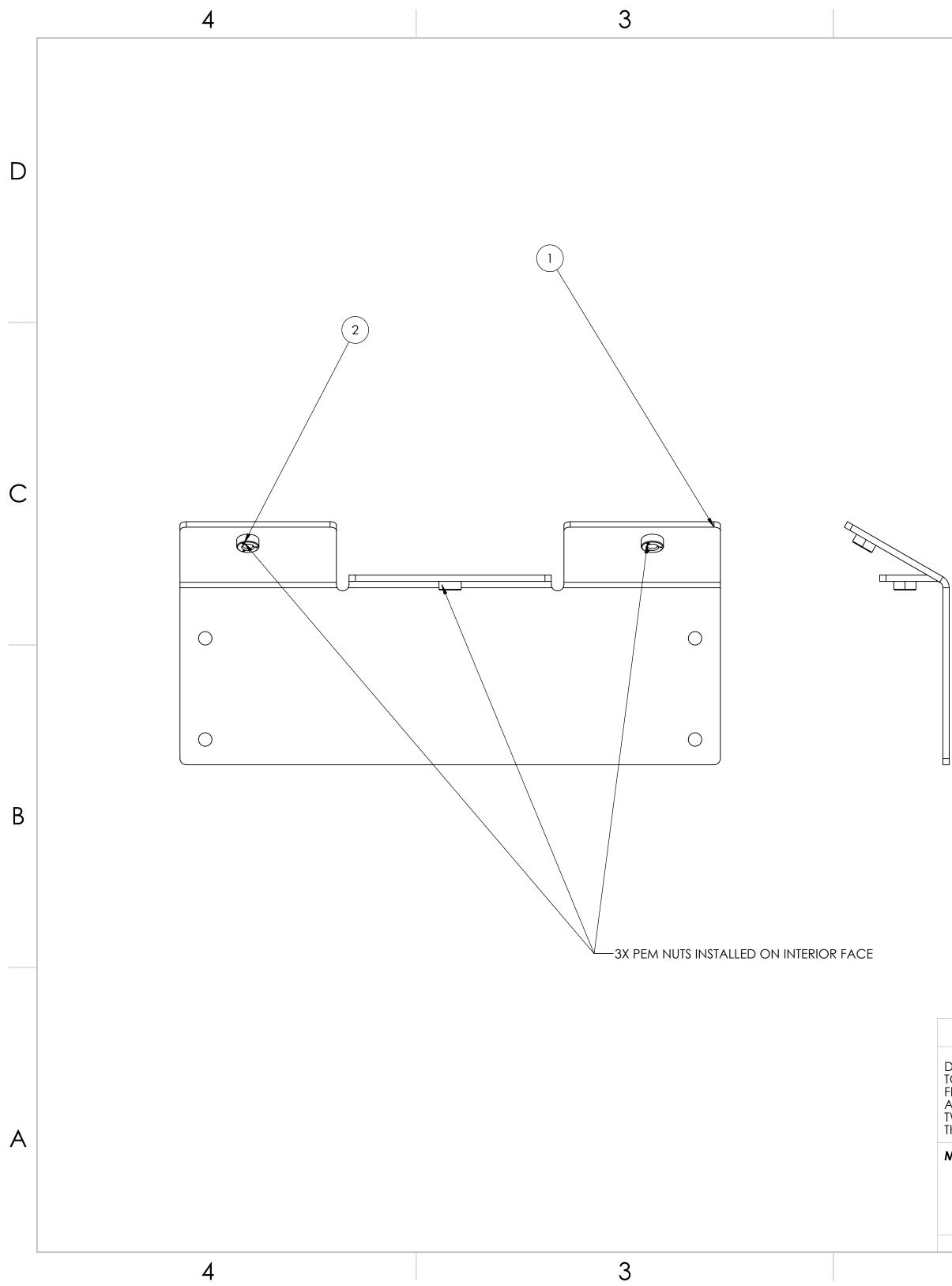
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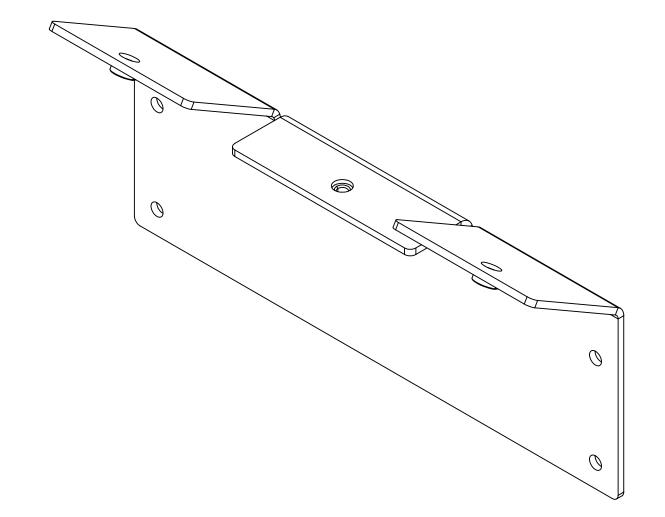
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST.		2 25 solid		
	DRAWN								
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFO THIS DRA PROPER REPROD	TARY AND CON DRMATION CON AWING IS THE SC TY OF FIRST® . A DUCTION IN PART	TAINED IN DLE NY OR AS A	GoalPipeCap					A
MATERIAL/FINISH:		WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS			DWG. NO.			REV	
11 GA STEEL	PROHIBI		SIZE						
	COMMENTS:			C GE-2		5301-03		A	
	REMC	REMOVE ALL BURRS AND SHARP			E• 1·1	Sheet 1 of 1		v⊑ 1	
DO NOT SCALE DRAWING	EDGES.			SCALE: 4:1		SHEELLOFT		'I I	
2					1				







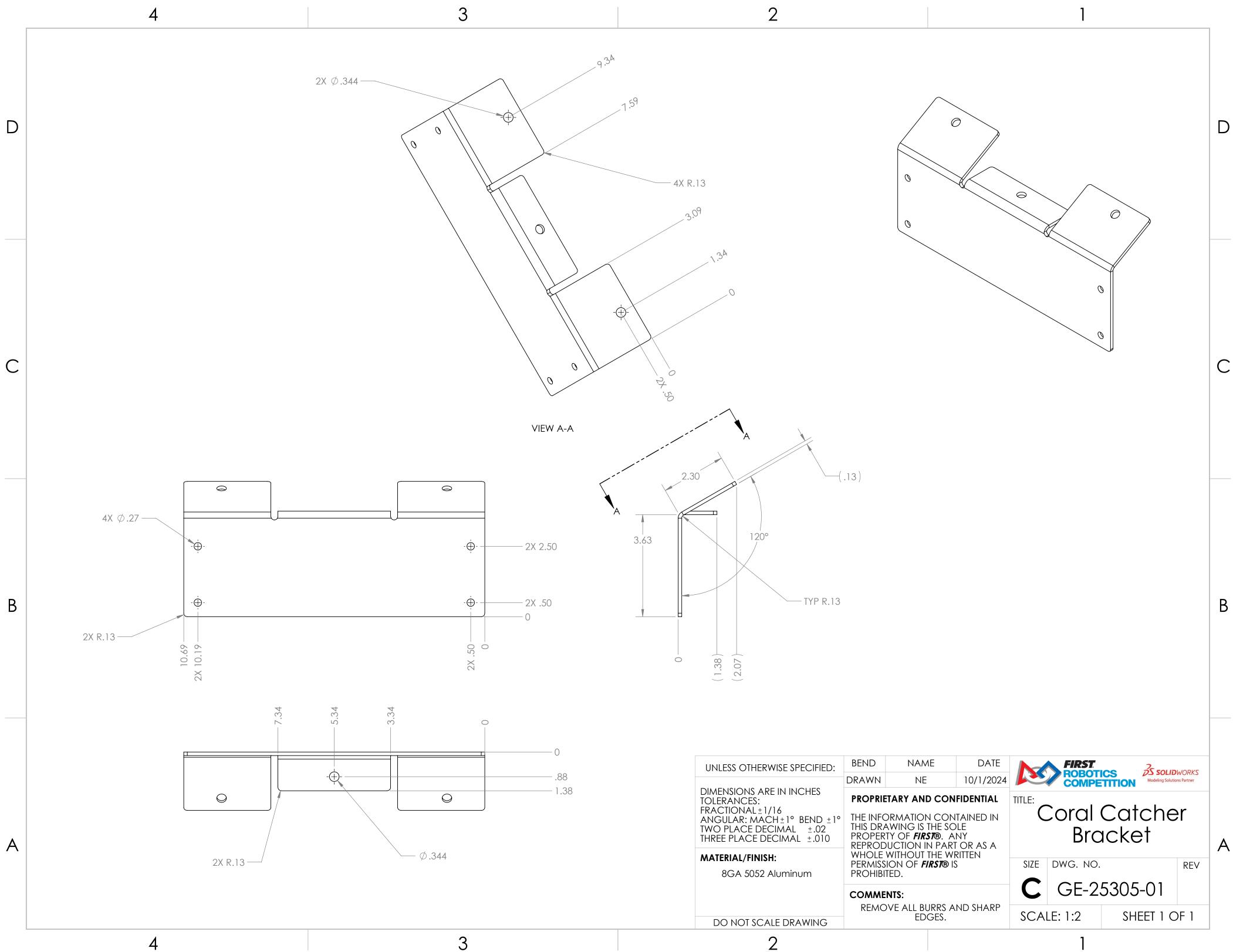


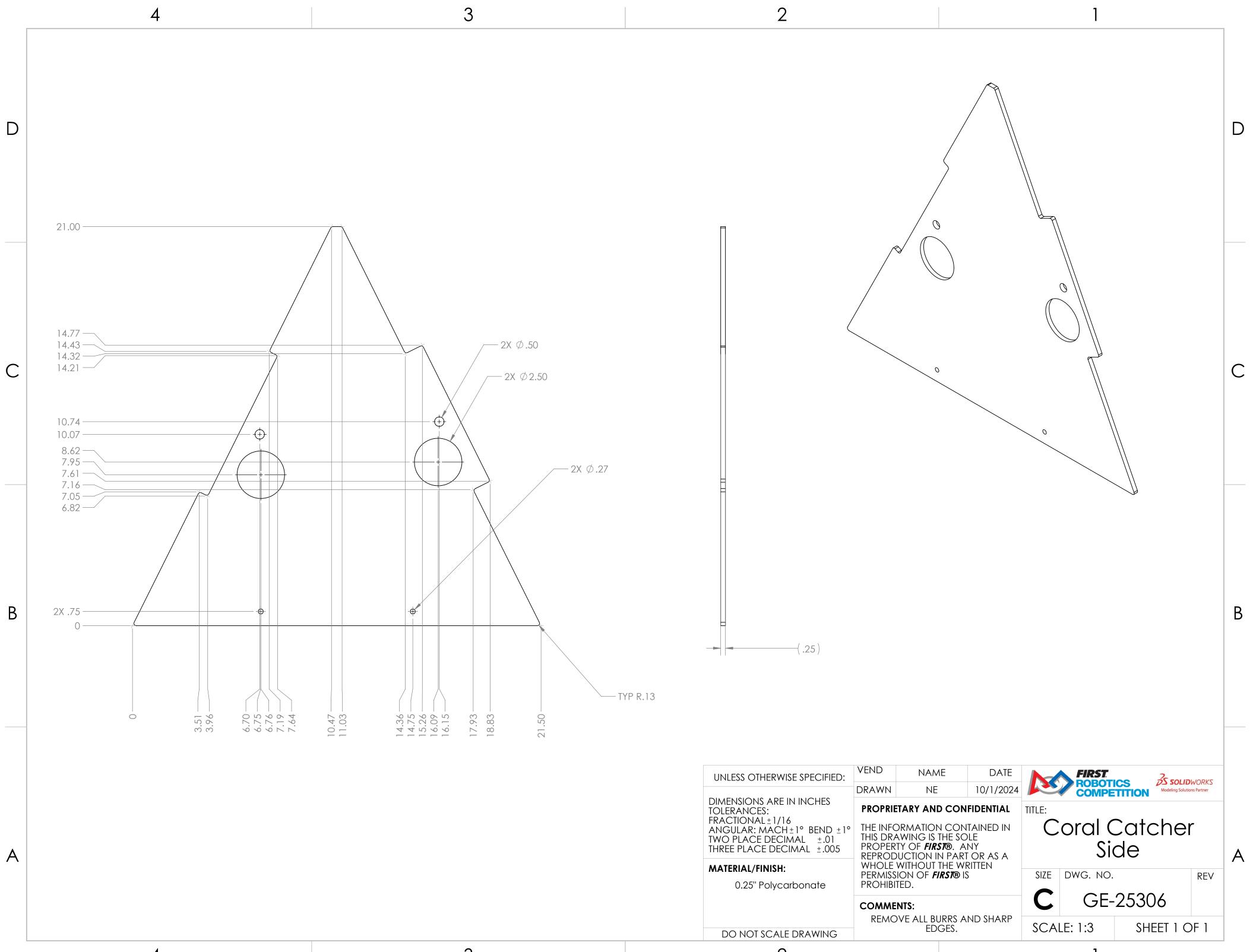


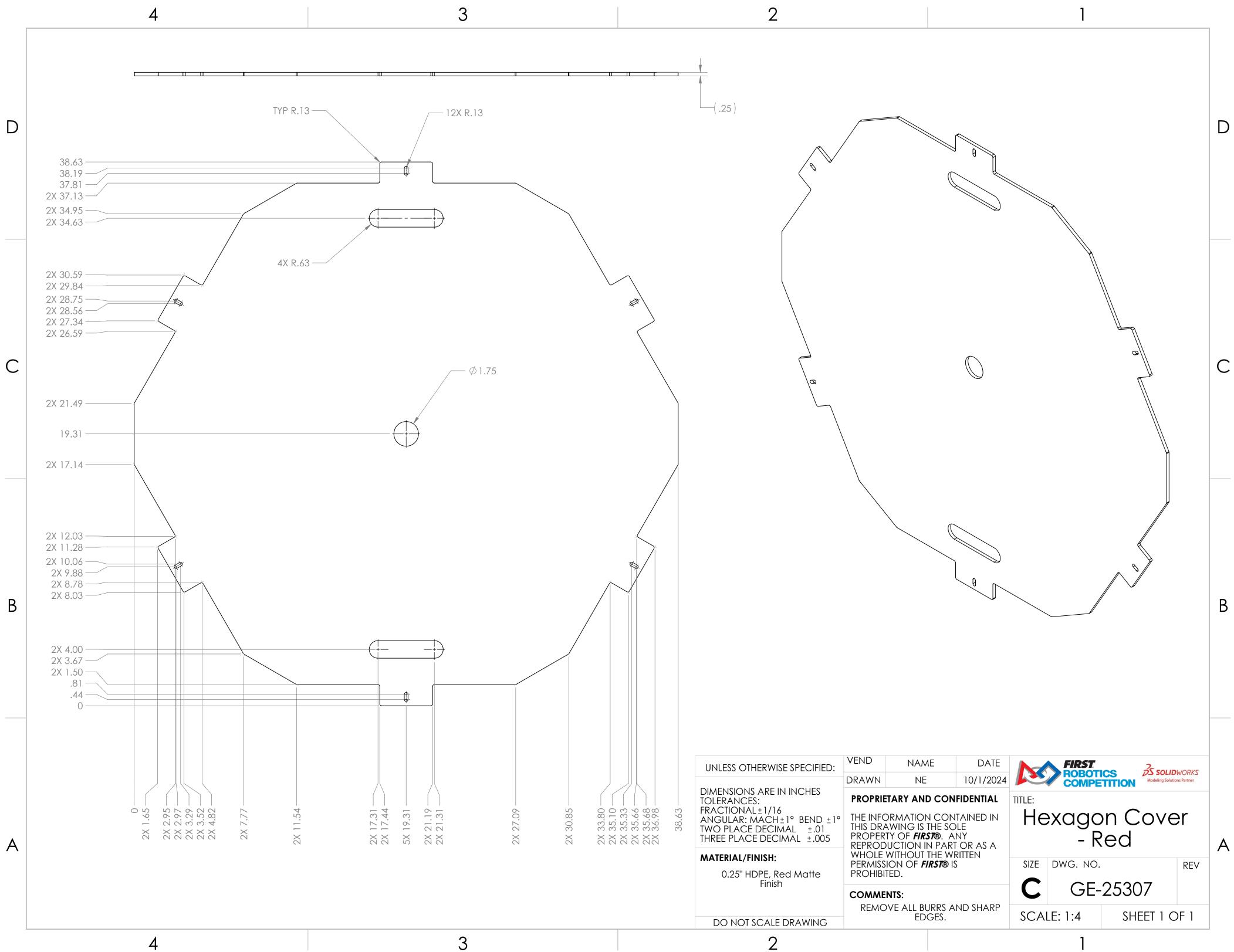
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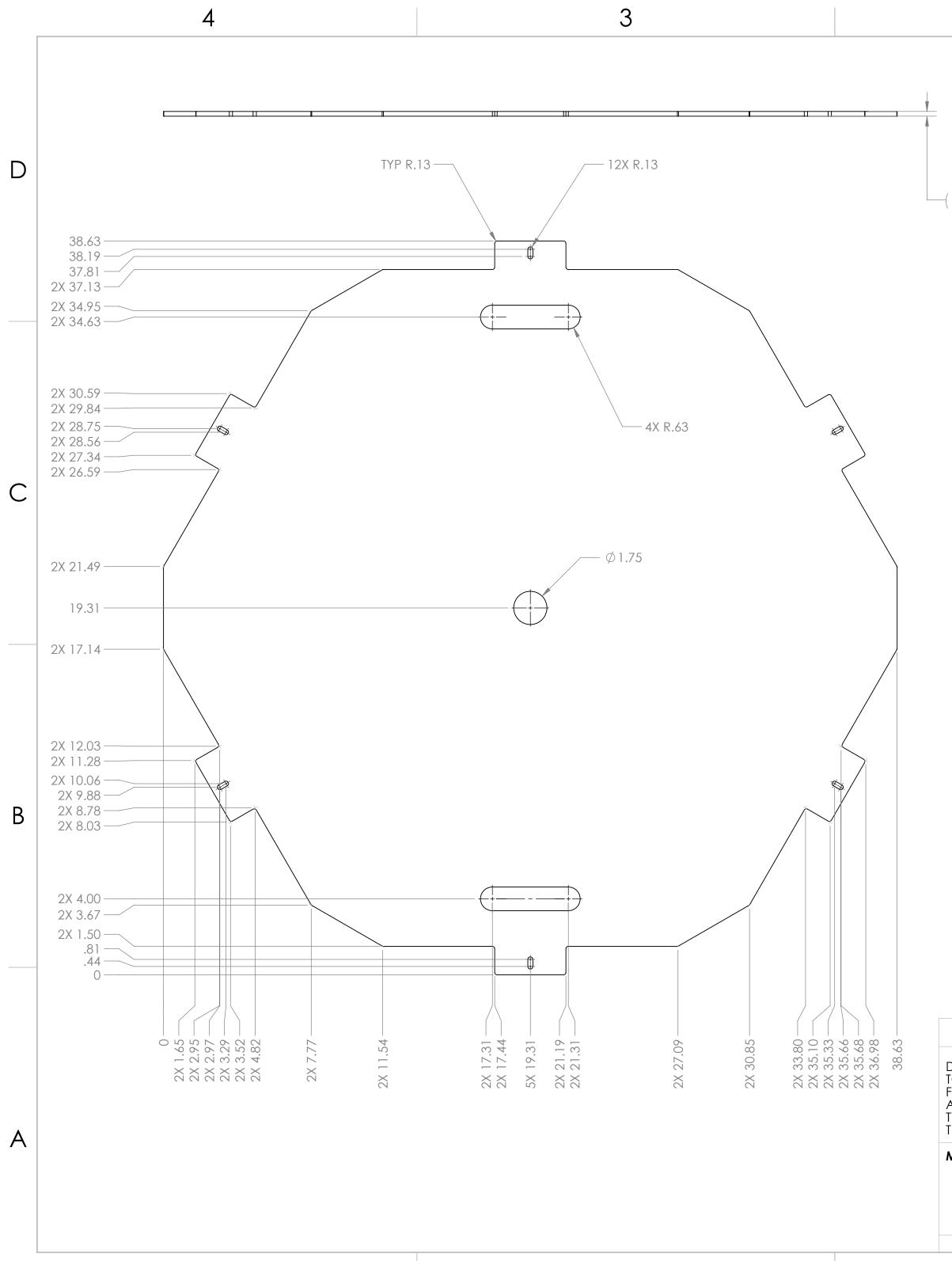
В

	ITEM NO.	ITEM NO. PAR		MBER DESCRIPTION			QTY.				
	1	GE-25305	GE-25305-01		Coral Catcher Bracket				1		
	2	pem_clin 054	pem_clinchnut25_20 1/ 054		1/4	4-20 self-clinching nut, .054 shank			nk	3	
UNLESS OTHERWISE SPECIFIED	: VEND	NAM	E	DAT	E		FIRST. ROBOTI		S SOLID	WORKS	
	DRAWN	NE		10/1/20)24		COMPE		Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	1° THE INFO THIS DRA PROPER REPROD WHOLE	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS			١	TITLE: Coral Catcher Bracket W PEMs SIZE DWG. NO.				Å	
COMMENTS: REMOVE ALL			SURRS AND SHARP		P	C	GE-25305)F 1	_
DO NOT SCALE DRAWING	DRAWING							0			
2							1				

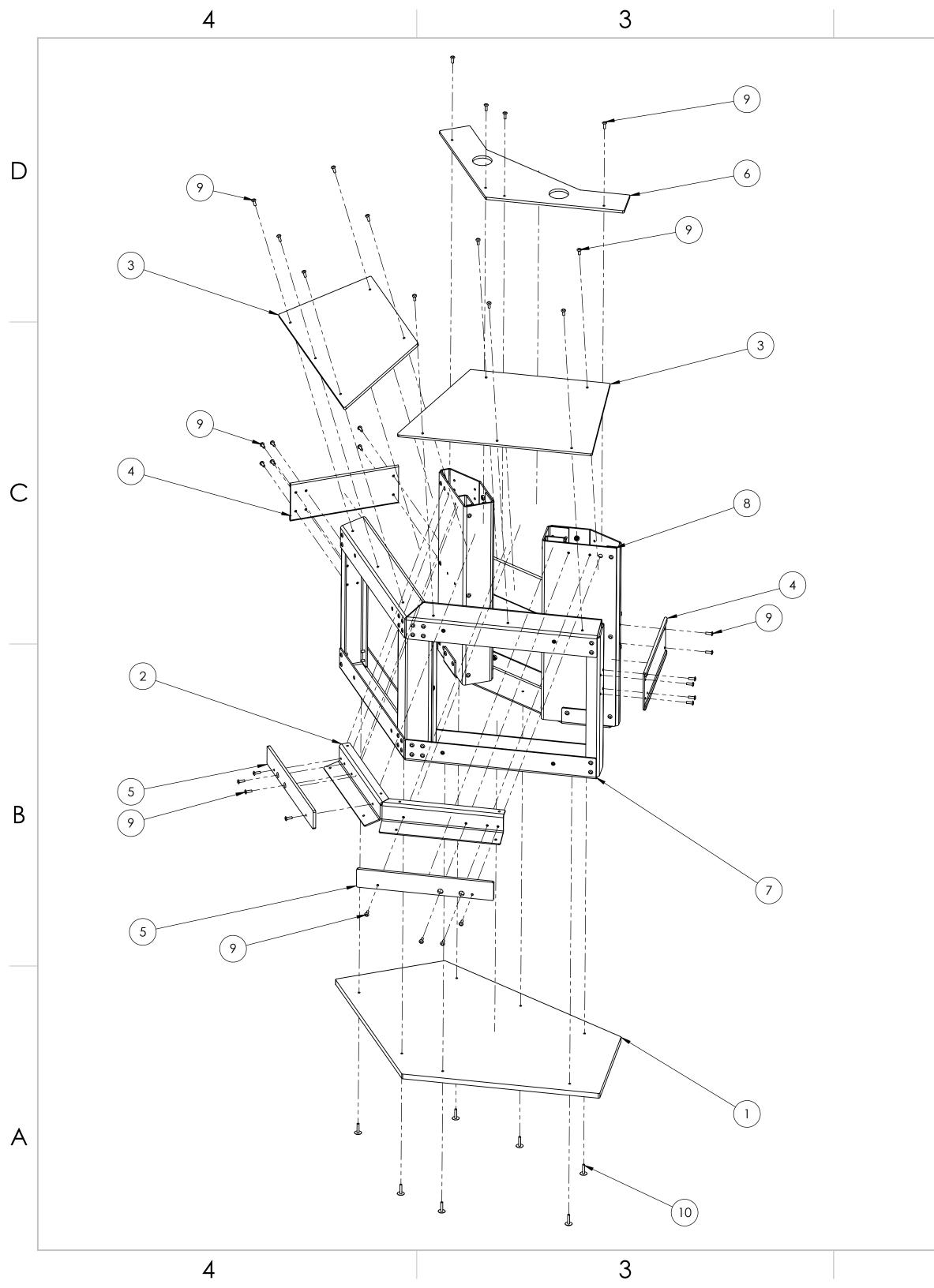


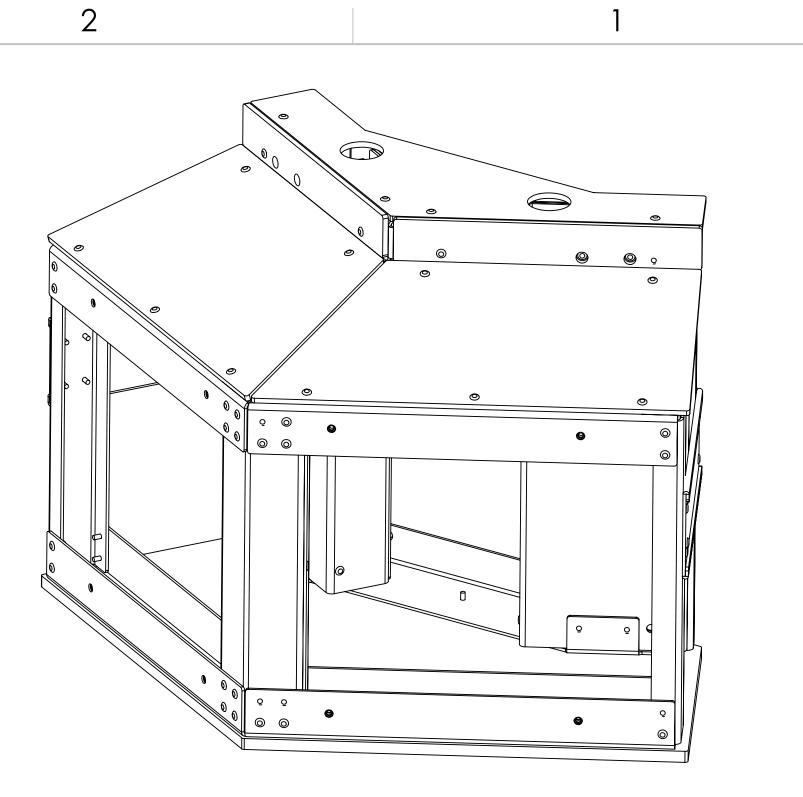






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-(.25)				D
				С
				B
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.01	VEND NAM DRAWN NE PROPRIETARY AND THE INFORMATION THIS DRAWING IS PROPERTY OF FIRS	10/1/2024 D CONFIDENTIAL N CONTAINED IN THE SOLE	TITLE: Hexagon Cover - Blue	
THREE PLACE DECIMAL ±.005 MATERIAL/FINISH: 0.25" HDPE, Blue Matte Finish	REPRODUCTION II WHOLE WITHOUT PERMISSION OF FI PROHIBITED. COMMENTS: REMOVE ALL BU	n part or as a The written	- BIUE SIZE DWG. NO. REV C GE-25308 SCALE: 1:4 SHEET 1 OF 1	A
DO NOT SCALE DRAWING			1	
<u>ــــــــــــــــــــــــــــــــــــ</u>		I	I	

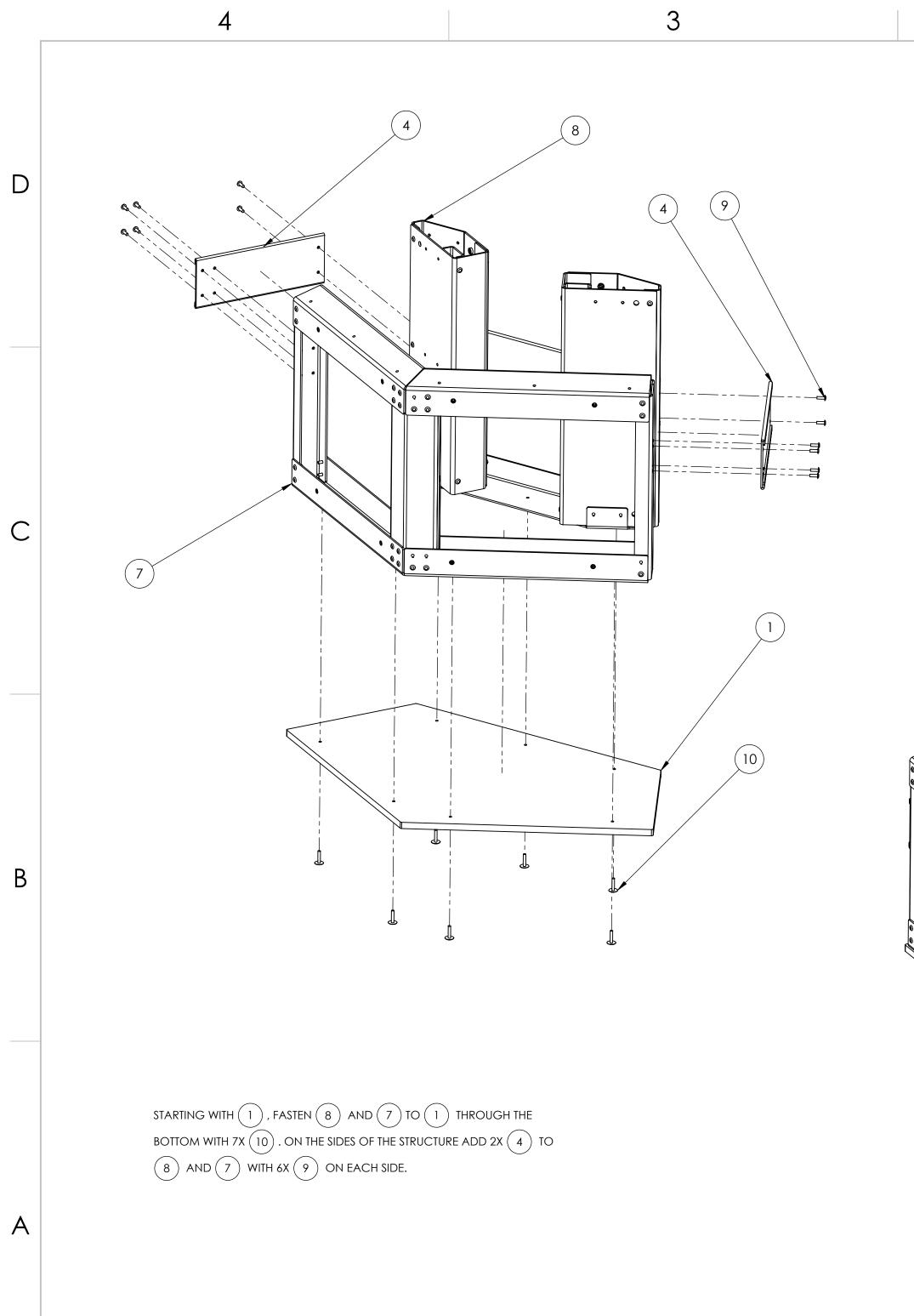


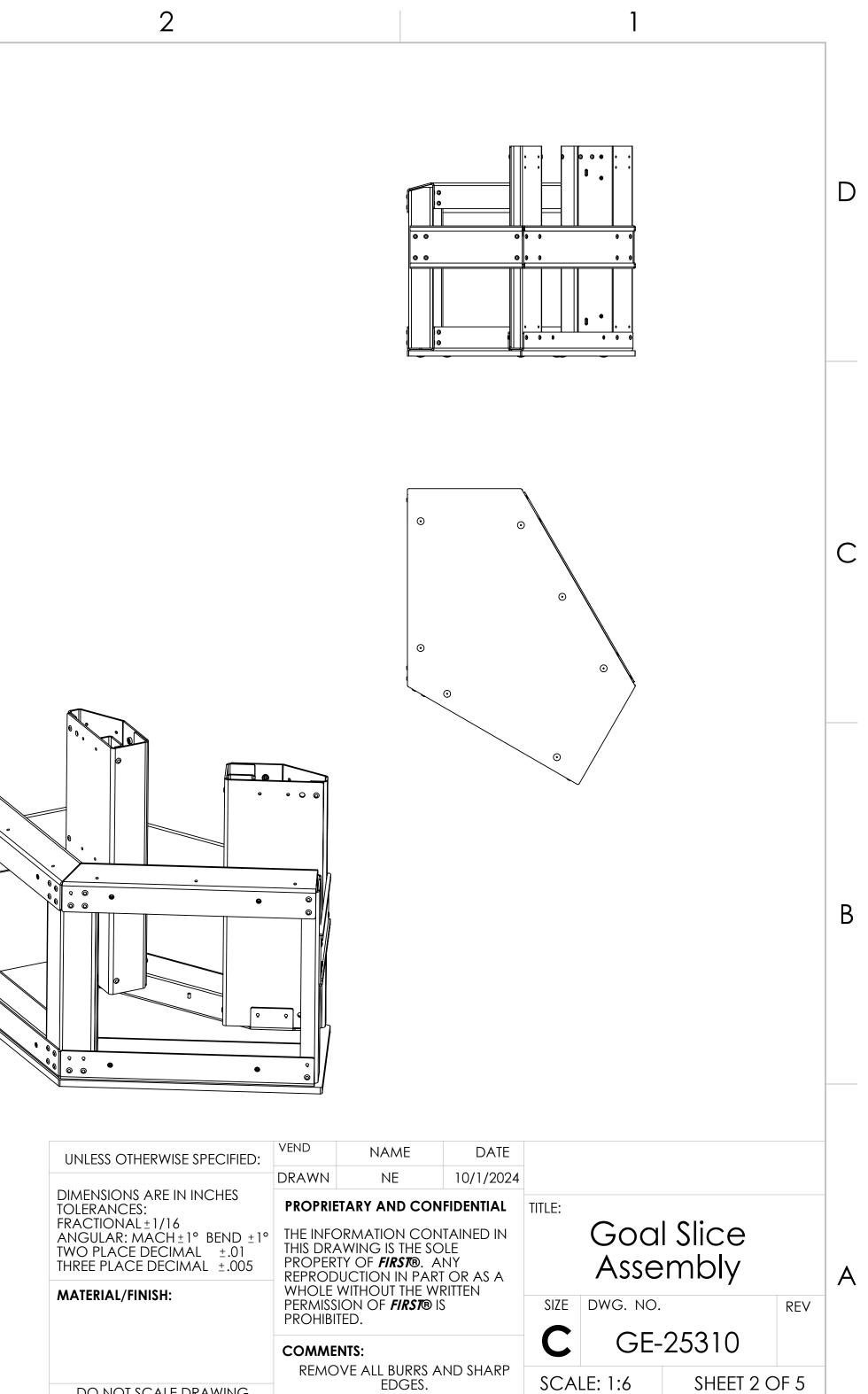


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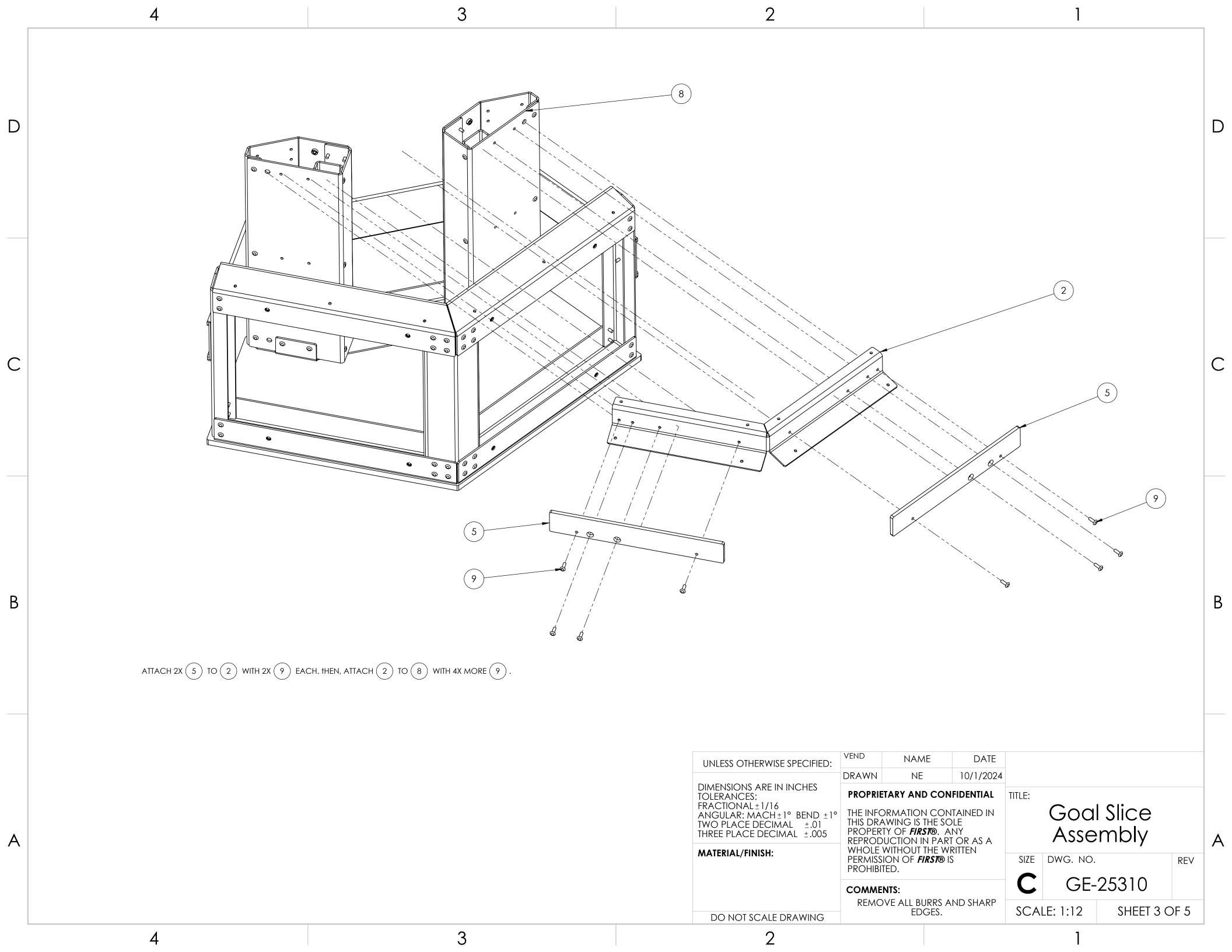
NOTES: 1. ASSEMBLE COMPONENTS IN DISPLAYED ORIENTATION

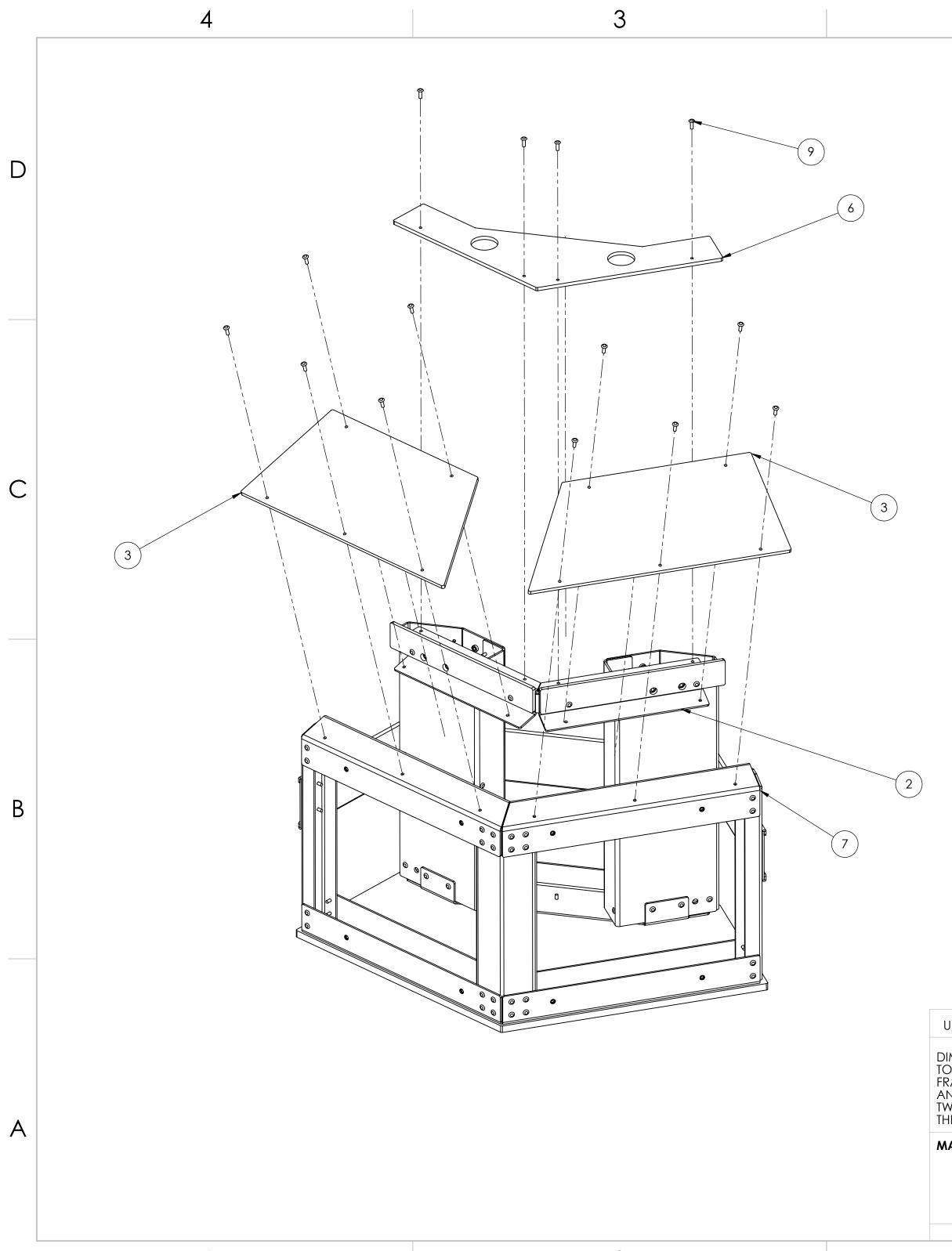
Г									4
	ITEM NO.	PA	rt num	ABER		DESCRIPTIC	N .	QTY.	
	1	GE-253	11			Slice Base	•	1	
	2	GE-253	12		Tro	Trough Floor Bracket			B
	3	GE-253	13		Trough Floor		2	1	
	4	GE-253	14		Slice O	utside Dept	h Support	2	1
	5 GE-253		15			Trough Bac	:k	2	1
	6	GE-253	16		S	Slice Top Co	ver	1	-
_	7	GE-253	20		Ou	ter Slice Asse	embly	1	
_	8	8 GE-2533			Inn	er Slice Asse	embly	1	1
	9	rivet18	875251375 3/16" Aluminum Rivet, .251375 Grip Range		34				
	10	.0.75_largeHead			rivet187	75625-0.75 <u></u>	_largeHead	7	
UNLESS OTHERWISE SPECIFIED:	VEND	NAN	۱E	DATE	_				
	DRAWN	NE		10/1/20	24				
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16		PROPRIETARY AND CONFIDENTIA THE INFORMATION CONTAINED I THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A							-
ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THIS DRA PROPER					Goal Slice Assembly			A
MATERIAL/FINISH:		WITHOUT ION OF FI TED.			SIZE	DWG. NO.		REV	
	COMME				C	GE-	25310		
DO NOT SCALE DRAWING	REMO		ges.	ND SHARF	SCA	SCALE: 1:6 SHEET 1 OF			
2						1			





DO NOT SCALE DRAWING





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				С
	TEN 2X (3) TO (2) AND (7) WITH 5X (9) H. FINALLY, ATTACH (6) TO (2) WITH 4X (_		В
JNLESS OTHERWISE SPECIFIED: MENSIONS ARE IN INCHES DLERANCES: ACTIONAL±1/16 NGULAR: MACH±1° BEND ±1° VO PLACE DECIMAL ±.01 IREE PLACE DECIMAL ±.005 ATERIAL/FINISH:	VENDNAMEDATEDRAWNNE10/1/2024PROPRIETARY AND CONFIDENTIALTHE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS	TITLE: Goal Slice Assembly SIZE DWG. NO.	REV	A

COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.

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SCALE: 1:12

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GE-25310

SHEET 4 OF 5

DO NOT SCALE DRAWING

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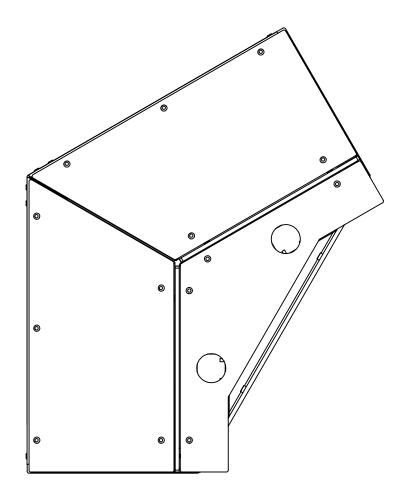
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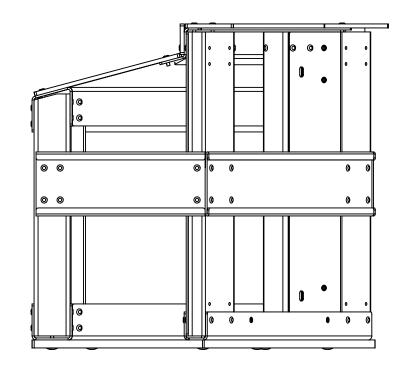
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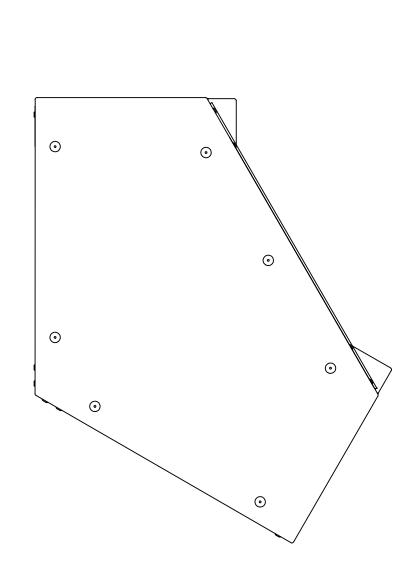
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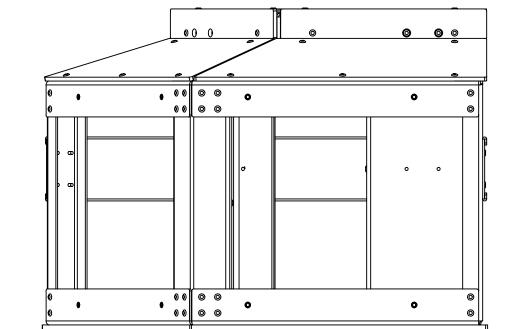
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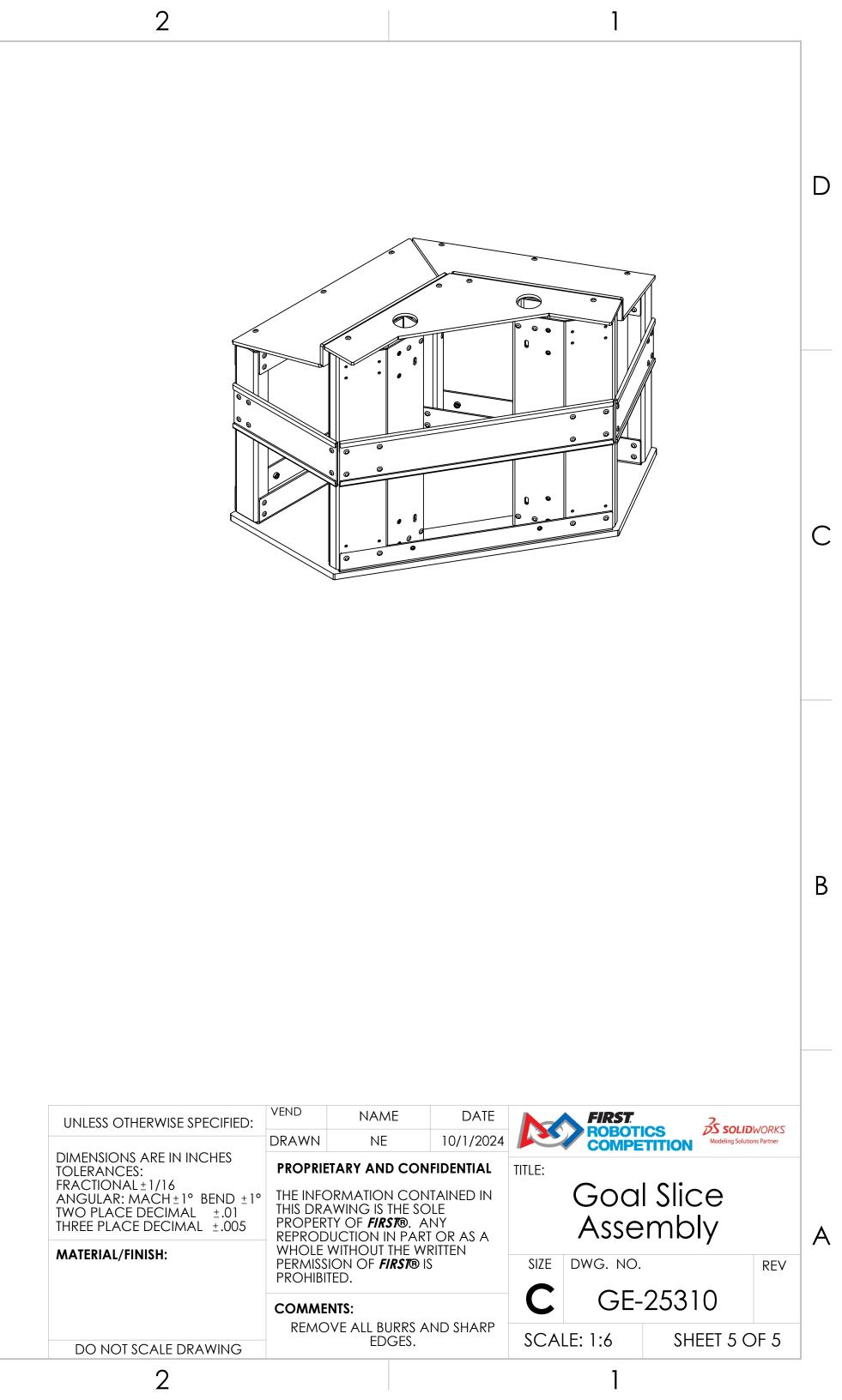
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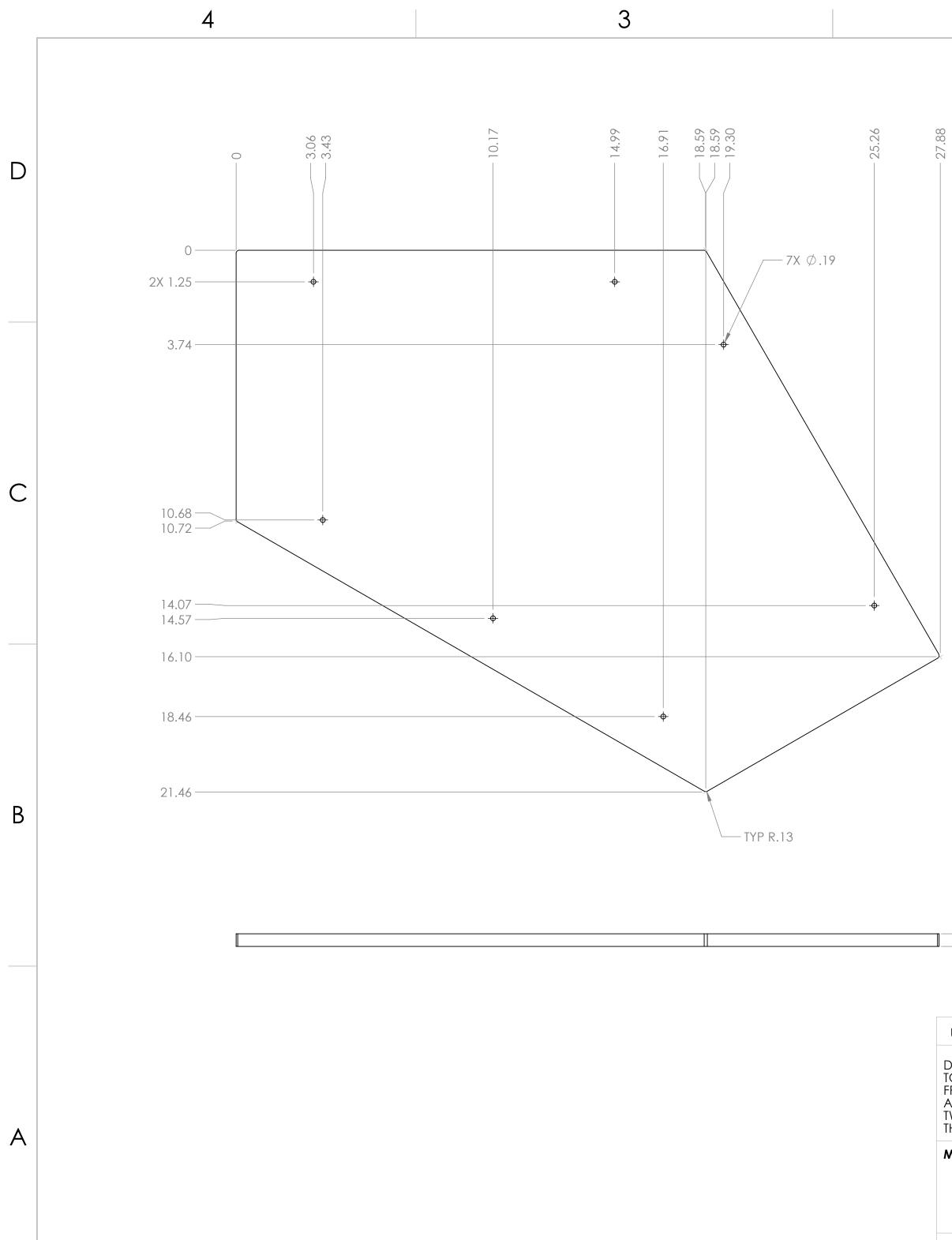








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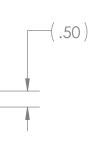


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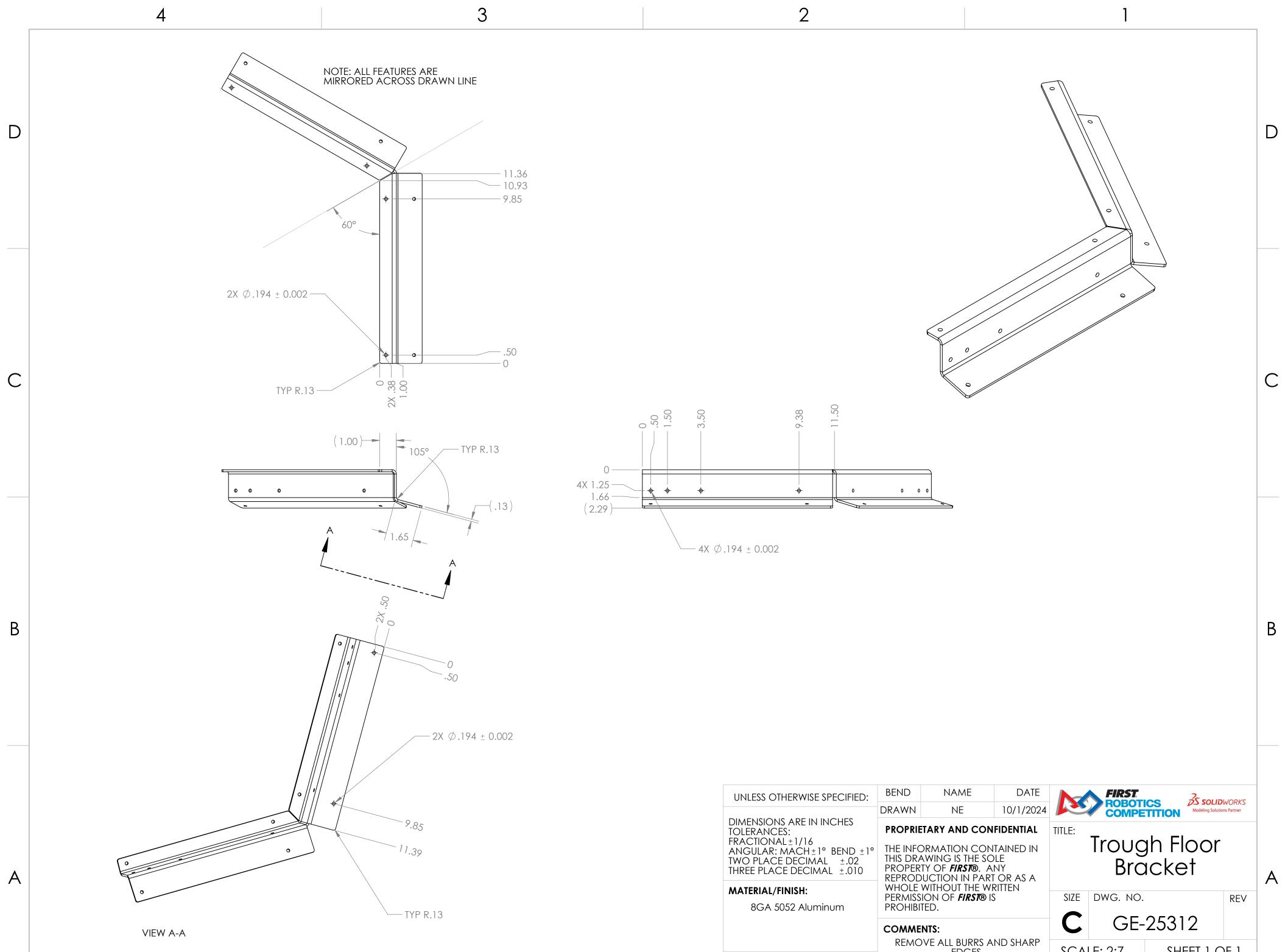
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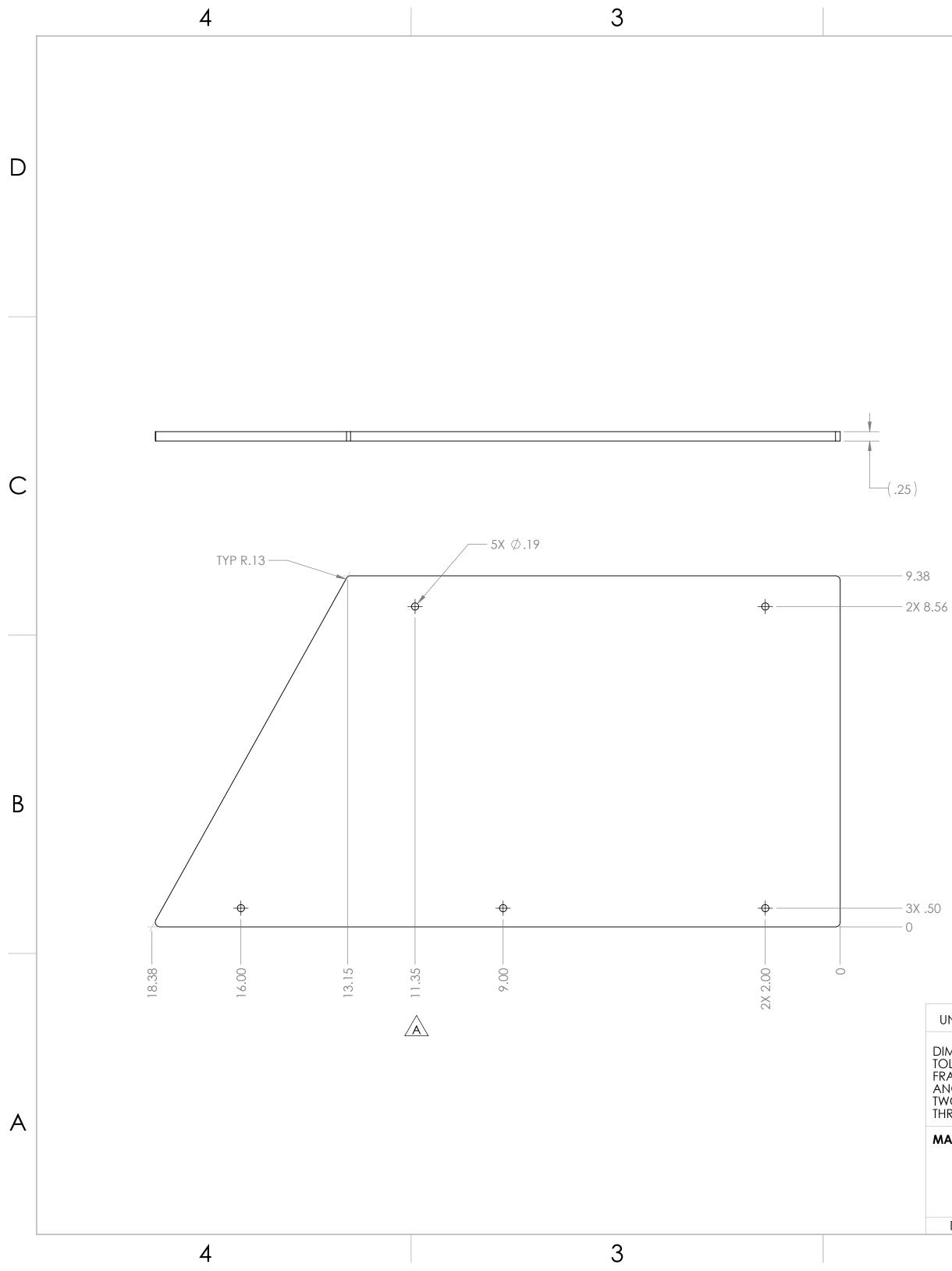
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UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST.	25 50	LIDWORKS	
	DRAWN	NE	10/1/2024		ROBOT		olutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A			Slice Base				A
MATERIAL/FINISH: 0.5" HDPE, Black Matte Finish	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.					REV	-
1 11 1151 1	COMMENTS:			C	GE-	GE-25311		
do not scale drawing	REMOVE ALL BURRS AND SHARP EDGES.		SCAL	E: 1:3	SHEET 1	OF 1		
2					1			-



UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE		FIRST. ROBOT		S SOLID	MORKS	
	DRAWN	NE	10/1/2024			ETITION	Modeling Solutio		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.02 THREE PLACE DECIMAL ±.010	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A			Trough Floor Bracket					A
MATERIAL/FINISH:	PERMISS	whole without the written permission of first ® is			DWG. NO	•		REV	-
8GA 5052 Aluminum	PROHIBI	IED.							
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			GE	-2531	12		
	REMC			SCA	SCALE: 2:7 SHEET 1 OF)F 1		
do not scale drawing		20020.		00/1				· I I	
2					1				

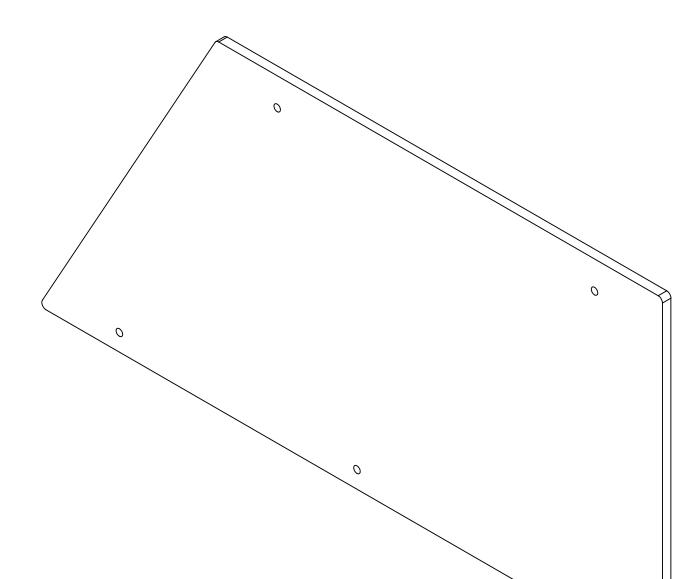


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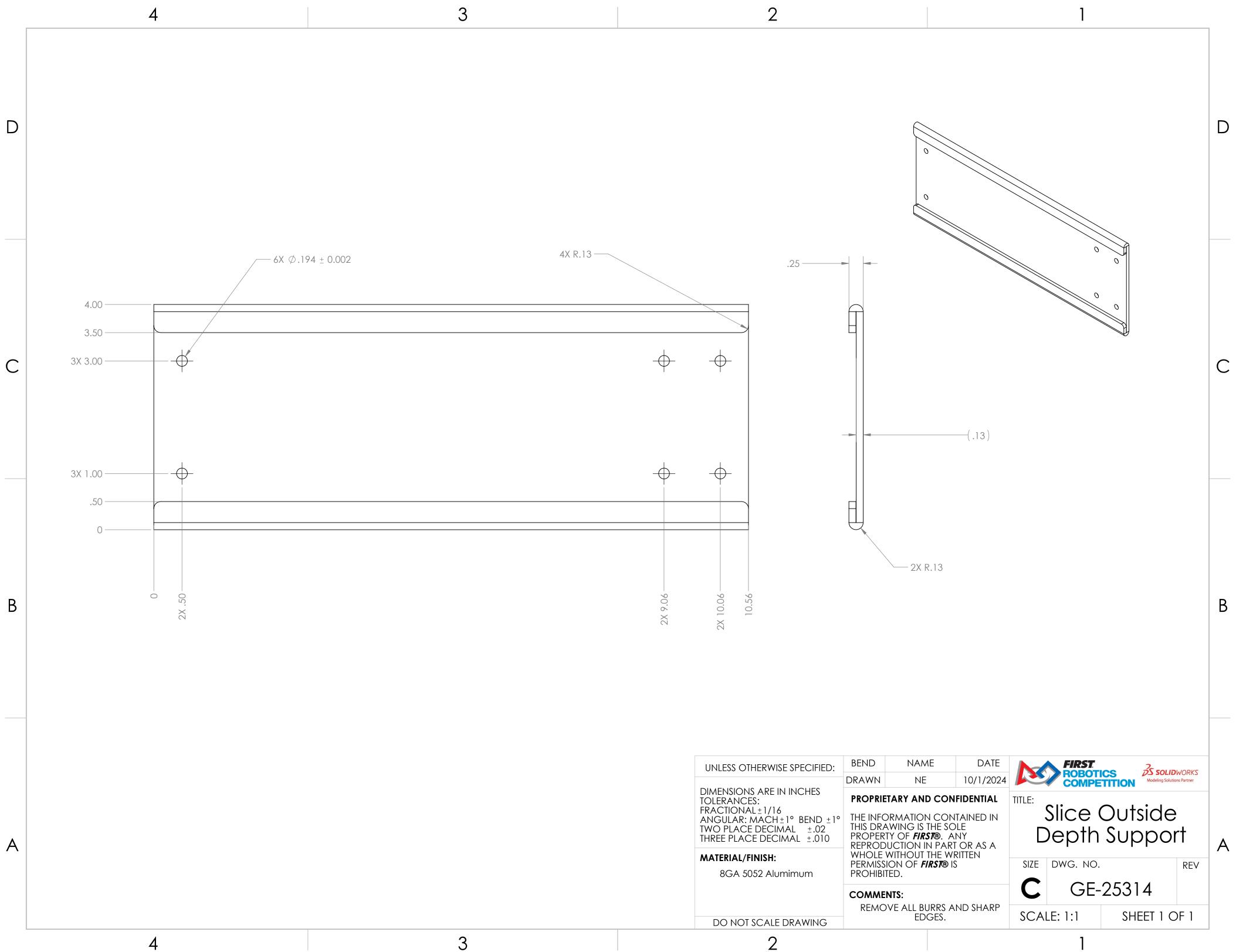
REVISIONS							
	ZONE	REV.	DESCRIPTION	DATE	APPROVED		
	A3	A	GEOMETRY CHANGE FOR HOLE LOCATION	11/8/2024	NWE		

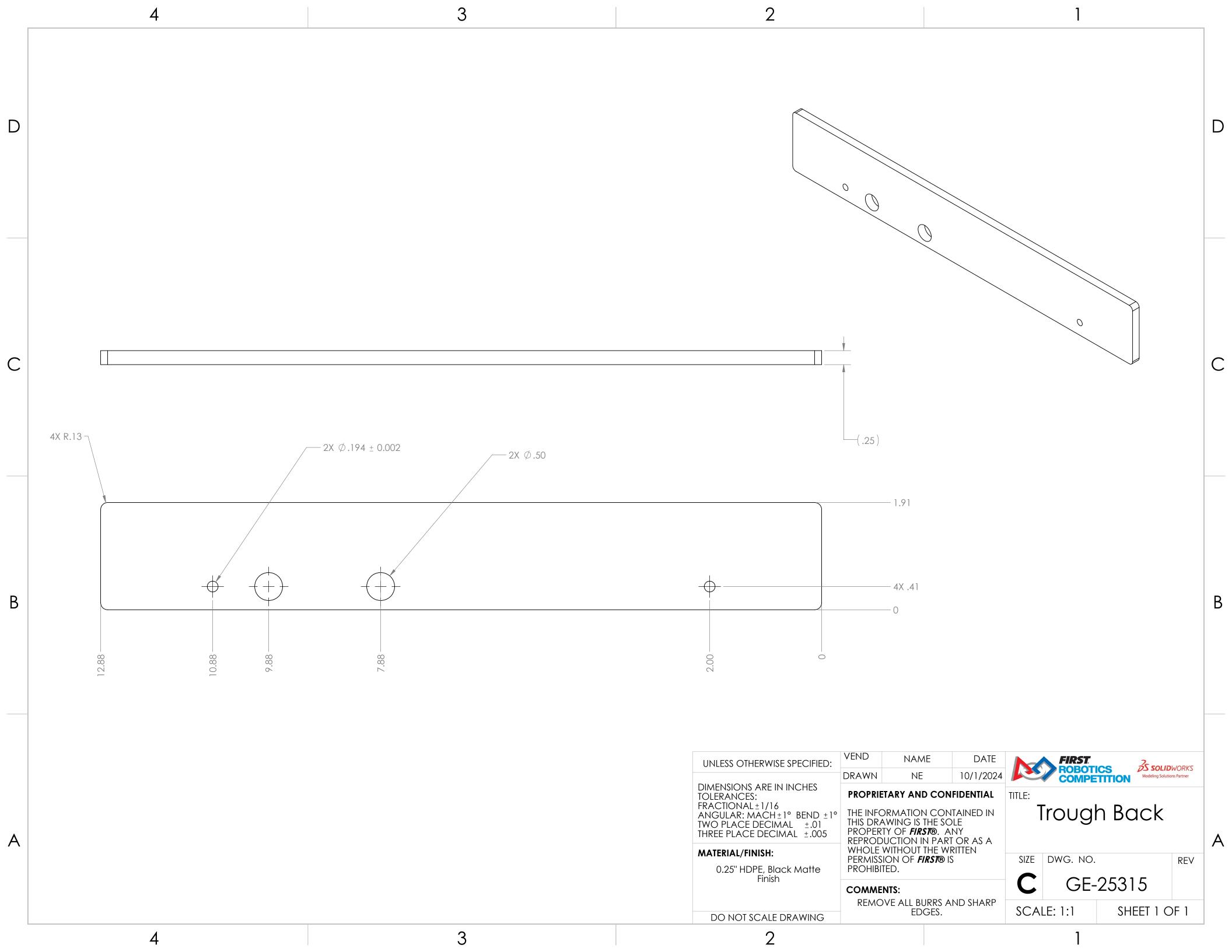
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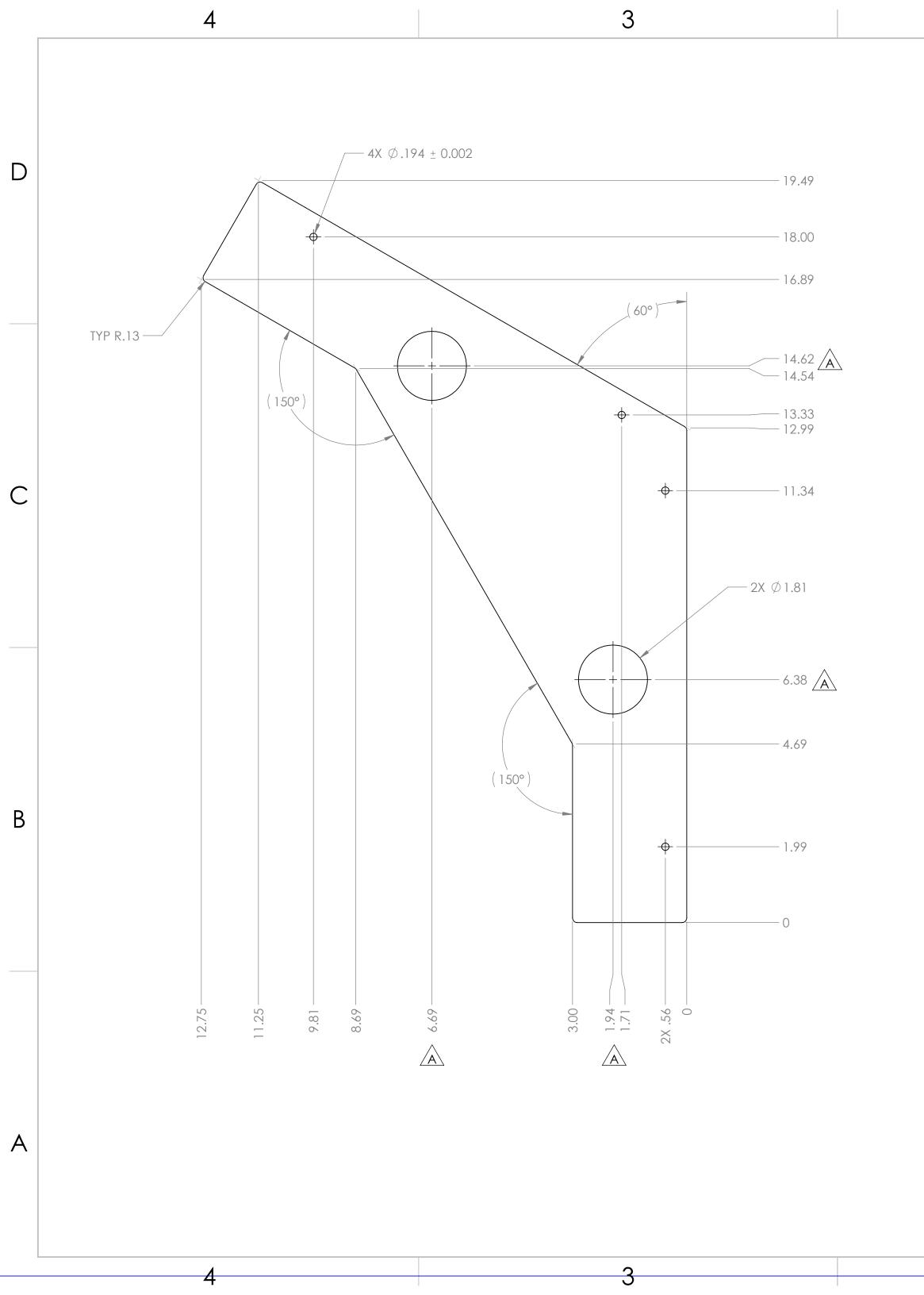
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UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST. ROBOT	CS 35 SOL	D WORKS	-
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005	THE INFO THIS DRA PROPER REPROD	NE TARY AND CON ORMATION CON WING IS THE SC IY OF <i>FIRST</i> ®. A UCTION IN PAR	ITAINED IN DLE .NY T OR AS A	TITLE: Trough Floor				
MATERIAL/FINISH: 0.25" HDPE, Black Matte Finish	PERMISS	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			DWG. NO.		REV	
FILIST	COMMENTS:			C	GE-	25313	A	
DO NOT SCALE DRAWING	REMO	REMOVE ALL BURRS AND SHARP EDGES.			ALE: 1:2 SHEET 1		OF 1	
2					1			



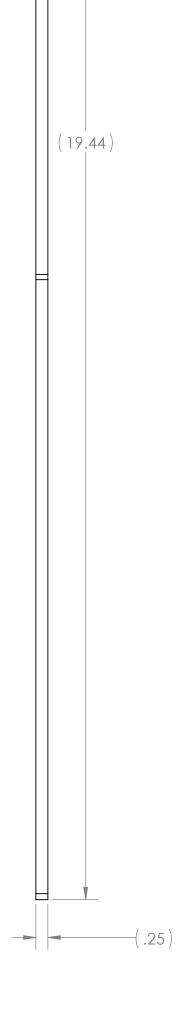




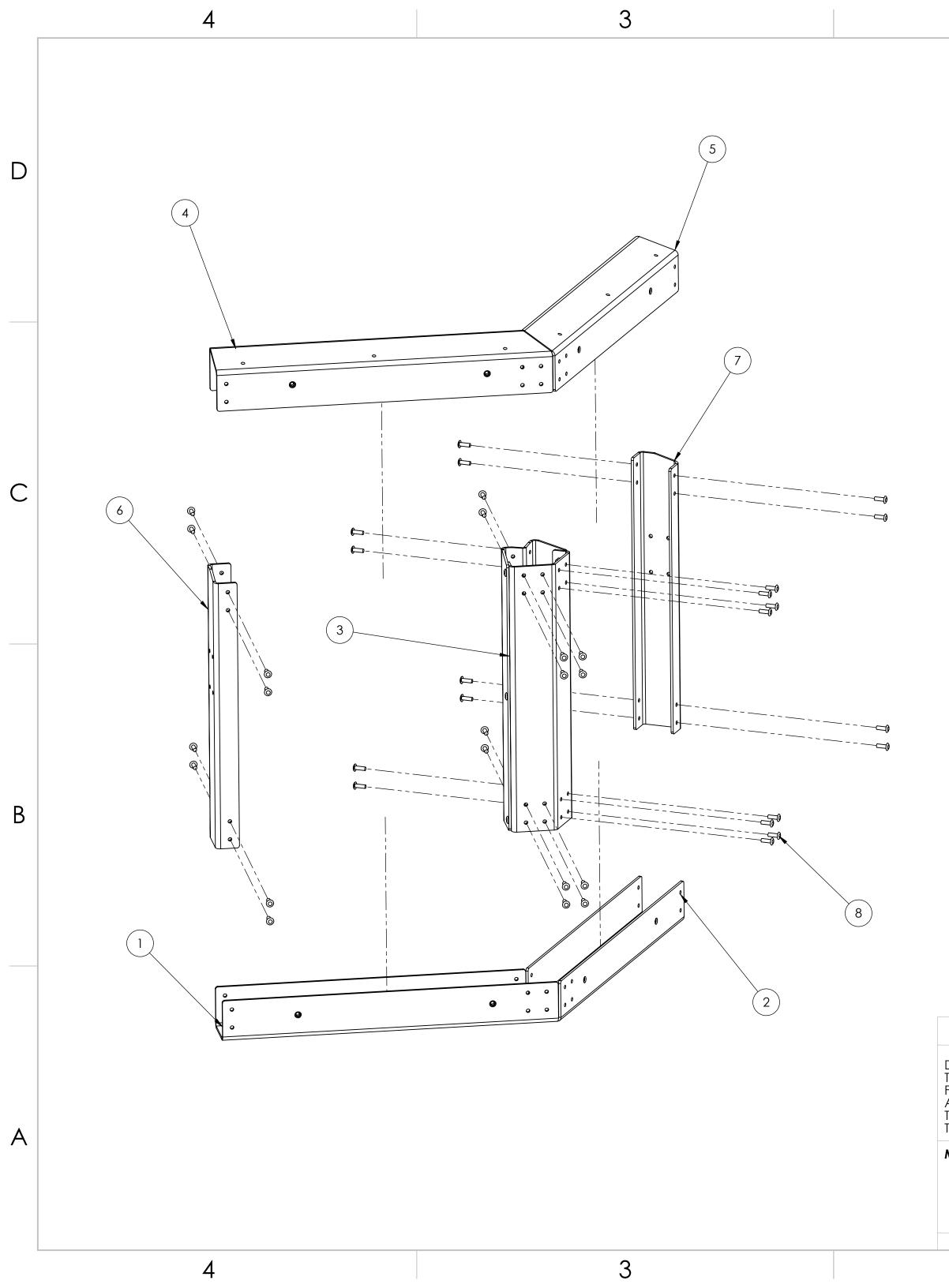
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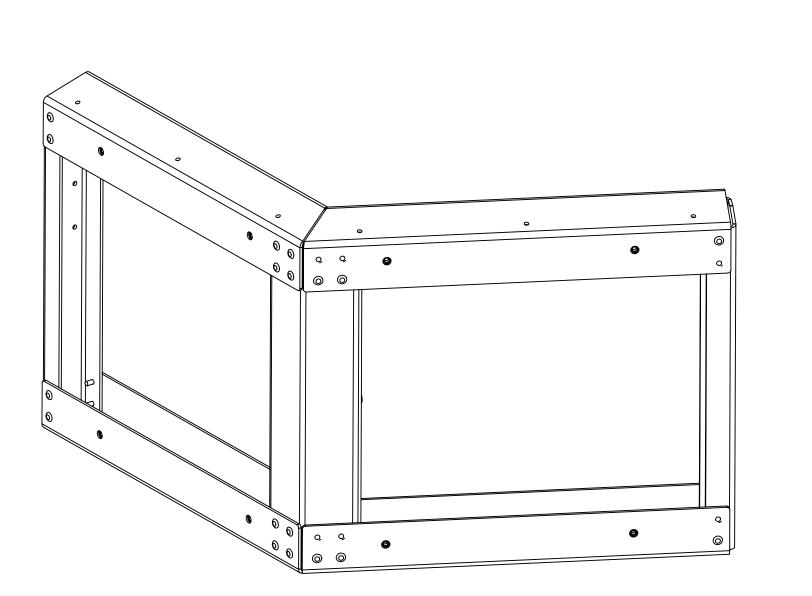
REVISIONS							
ZOI	NE REV.	DESCRIPTION	DATE	APPROVED			
A3, C:		ALTERED CLEARANCE HOLE LOCATION	11/4/2024	NWE			

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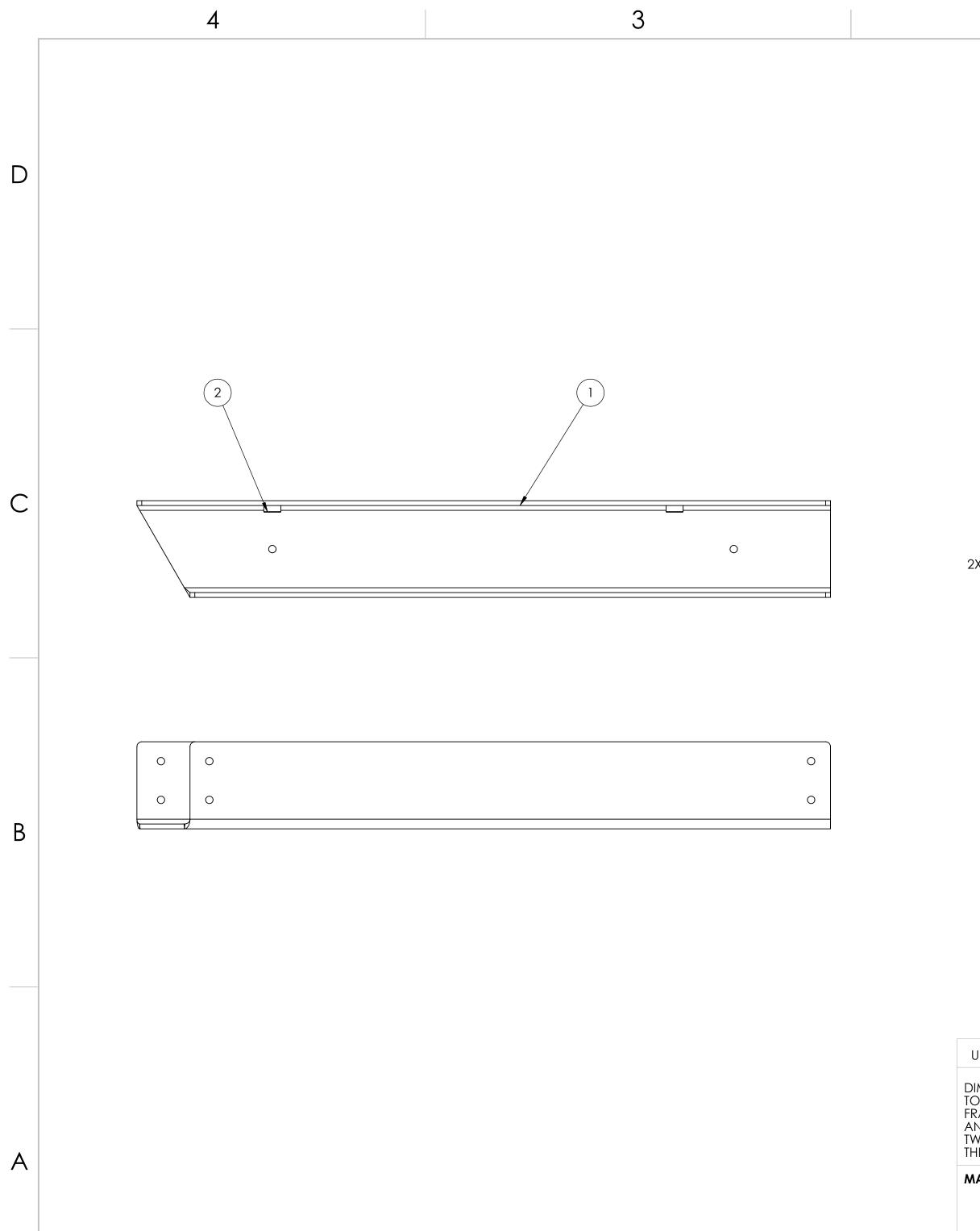
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DATE		FIRST		20		
	DRAWN	DRAWN NE 10/1/2024							
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 REPRODUCTION IN			ITAINED IN DLE .NY	Slice Top Cover				r	A
MATERIAL/FINISH: 0.25" HDPE, Black Matte Finish	WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			SIZE DWG. NO.				REV	, ,
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	GE-	2531	6	A	
do not scale drawing				SCA	LE: 1:2	2 SHEET 1 OF		F 1	
2					1				



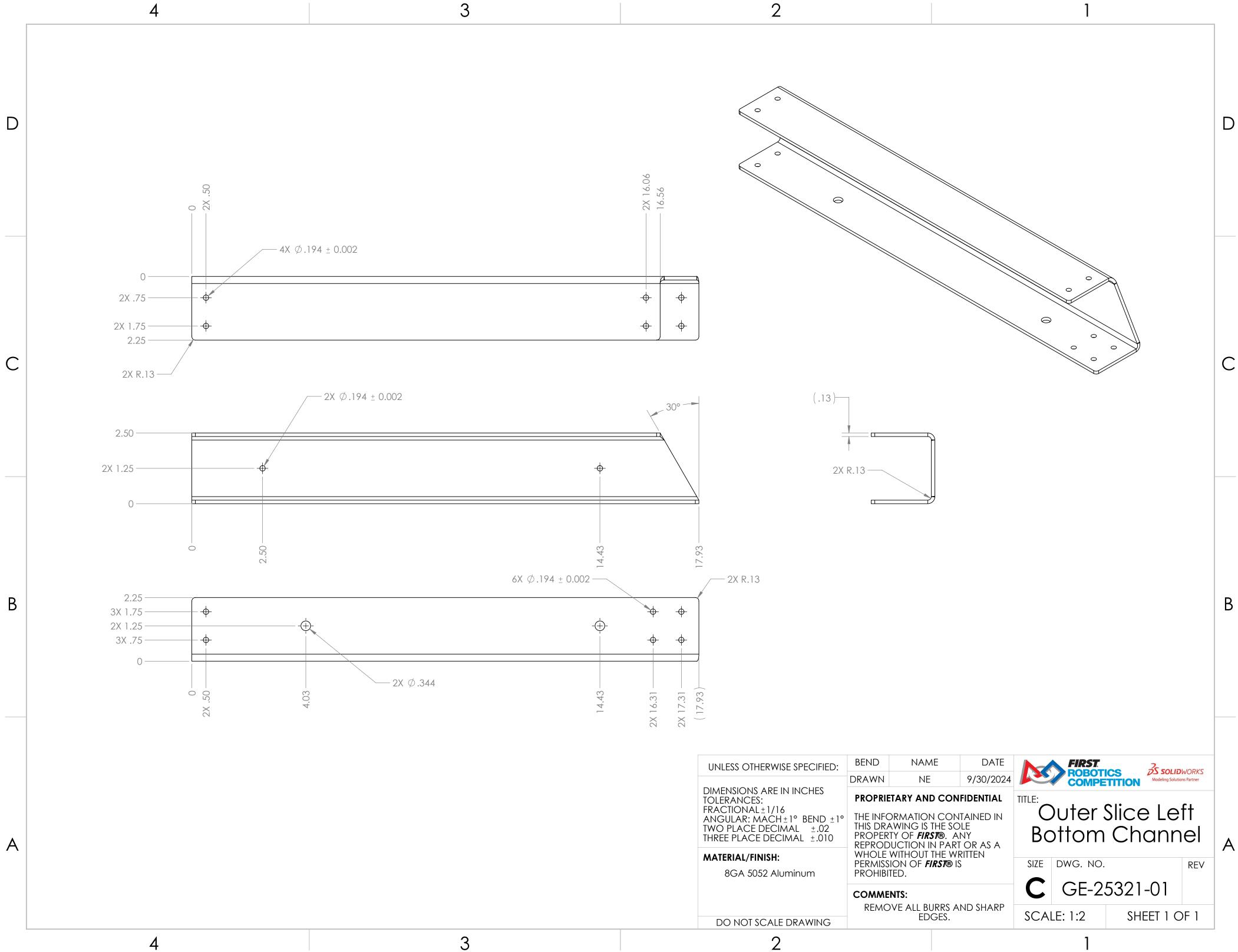


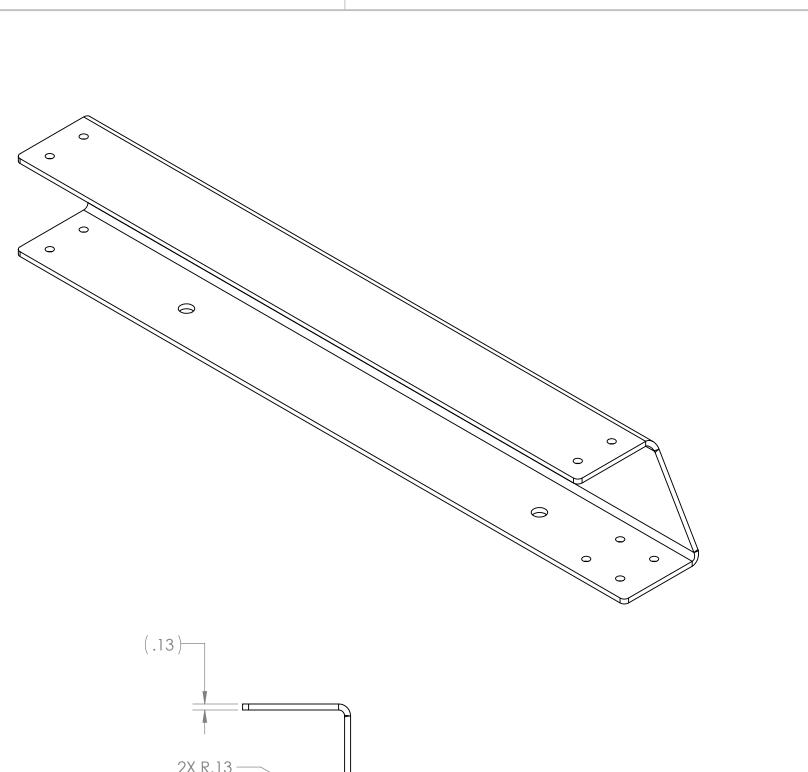
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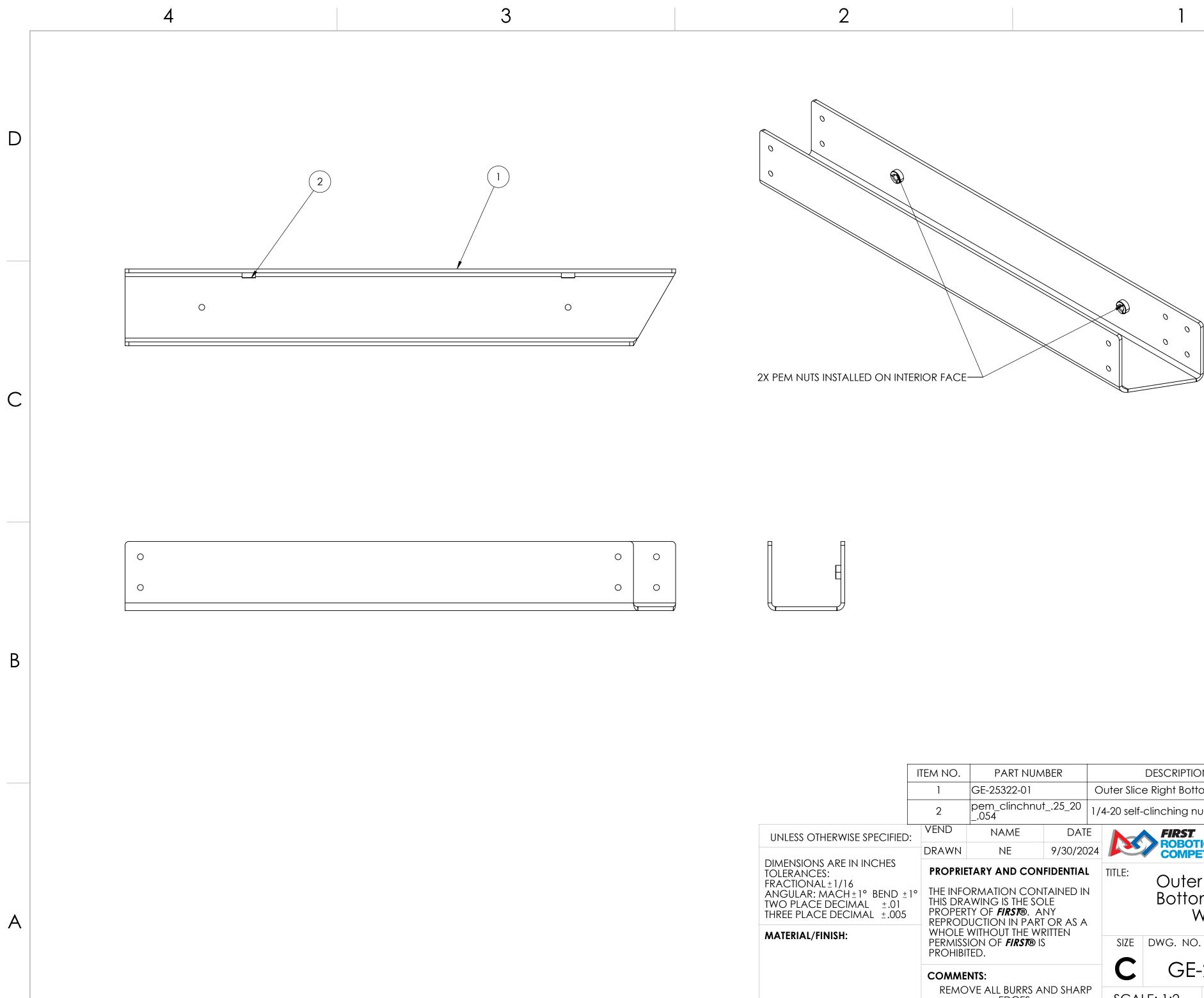
Γ	ITEM NO.	PART NUA	∕BER		DESCRIPTIO	N	QTY.	1
-	1	GE-25321		Outer Slice	e Left Bottom PEMs	Channel W	1	B
	2	GE-25322		Outer Slic	e Right Botto W PEMs	m Channel	1	
	3	GE-25323		Outer	Slice Center	Vertical	1	1
	4	GE-25326		Outer Sli	ce Left Top C PEMs	Channel W	1	
-	5	GE-25327		Outer Slice Right Top Channel W PEMs			1	
-	6	GE-25328		Outer	Outer Slice End Vertical Left			1
	7	7 GE-25329 Outer Slice End Vertical Right				1		
	8	rivet18752	51375	3/16" Alum	inum Rivet, .2 Range	251375 Grip	40	
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT	E	FIRST	25 501	LIDWORKS	
	DRAWN	NE	10/1/20	024	ROBOTIC COMPE		olutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	THE INFC THIS DRA PROPER	TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A UCTION IN PART	ITAINED IN DLE NY	Ν				
MATERIAL/FINISH: W		WITHOUT THE WI ION OF FIRST® IS TED.	RITTEN	SIZE	DWG. NO.	/	REV	A
	COMME			C	GE-2	25320		
do not scale drawing	REMO	VE ALL BURRS A EDGES.	ND SHAR	P SCA	LE: 1:4	SHEET 1	OF 1	
2					1			



2]			
							D
2X PEM NUTS INSTALLED ON INTI	ERIOR FAC	E			0		С
							В
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES OLERANCES: RACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1° WO PLACE DECIMAL ±.01 HREE PLACE DECIMAL ±.005 WATERIAL/FINISH: DO NOT SCALE DRAWING	THE INFC THIS DRA PROPERT REPROD WHOLE V PERMISSI PROHIBIT		DATE 9/30/202 FIDENTIAL TAINED IN LE NY OR AS A RITTEN	24 TITLE: Outer Sli Char SIZE DWG. G	ottom Channel g nut, .054 shank ST SOTICS MPETITION CE Left BC NO. NO. SE-25321	olidworks ag Solutions Partner ottom As REV	A
							l







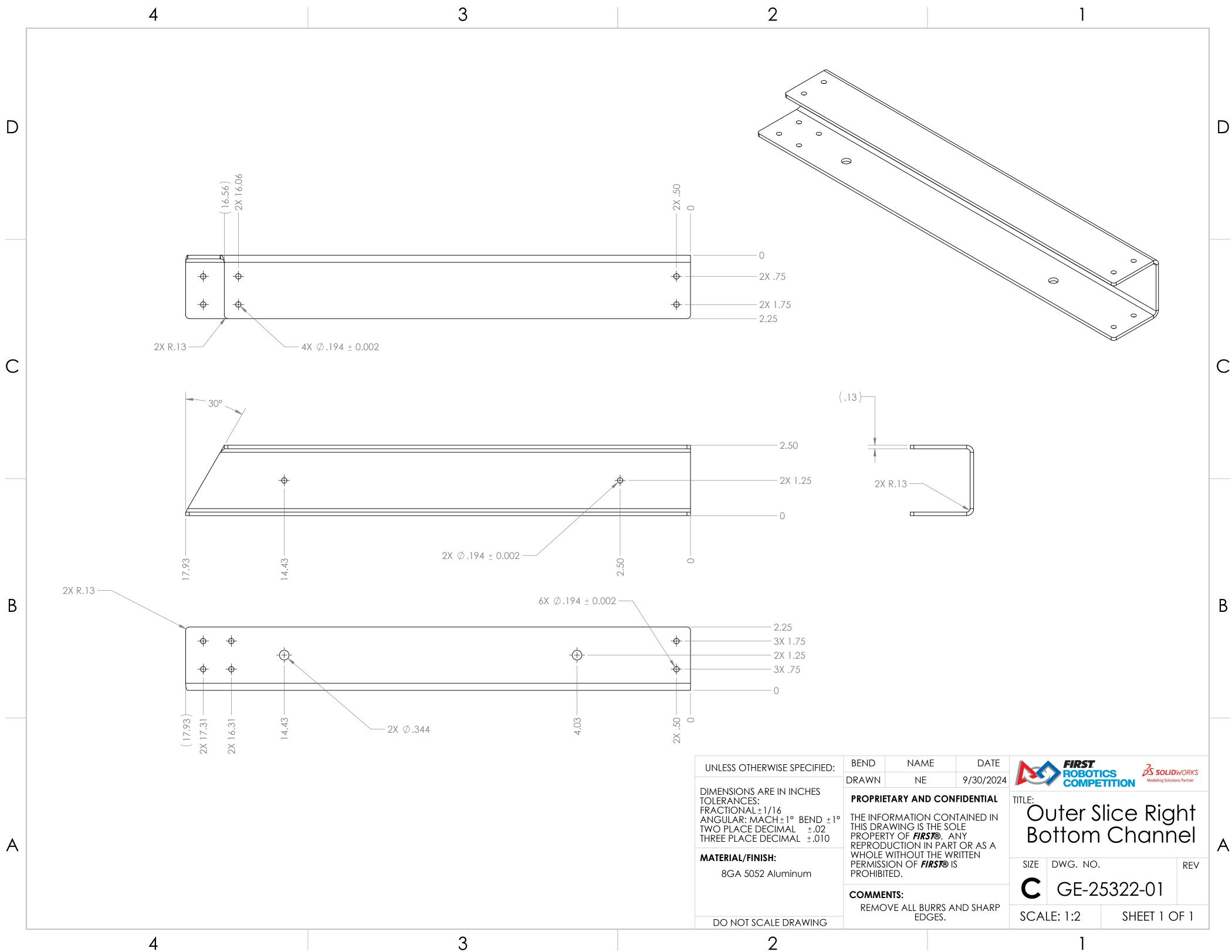
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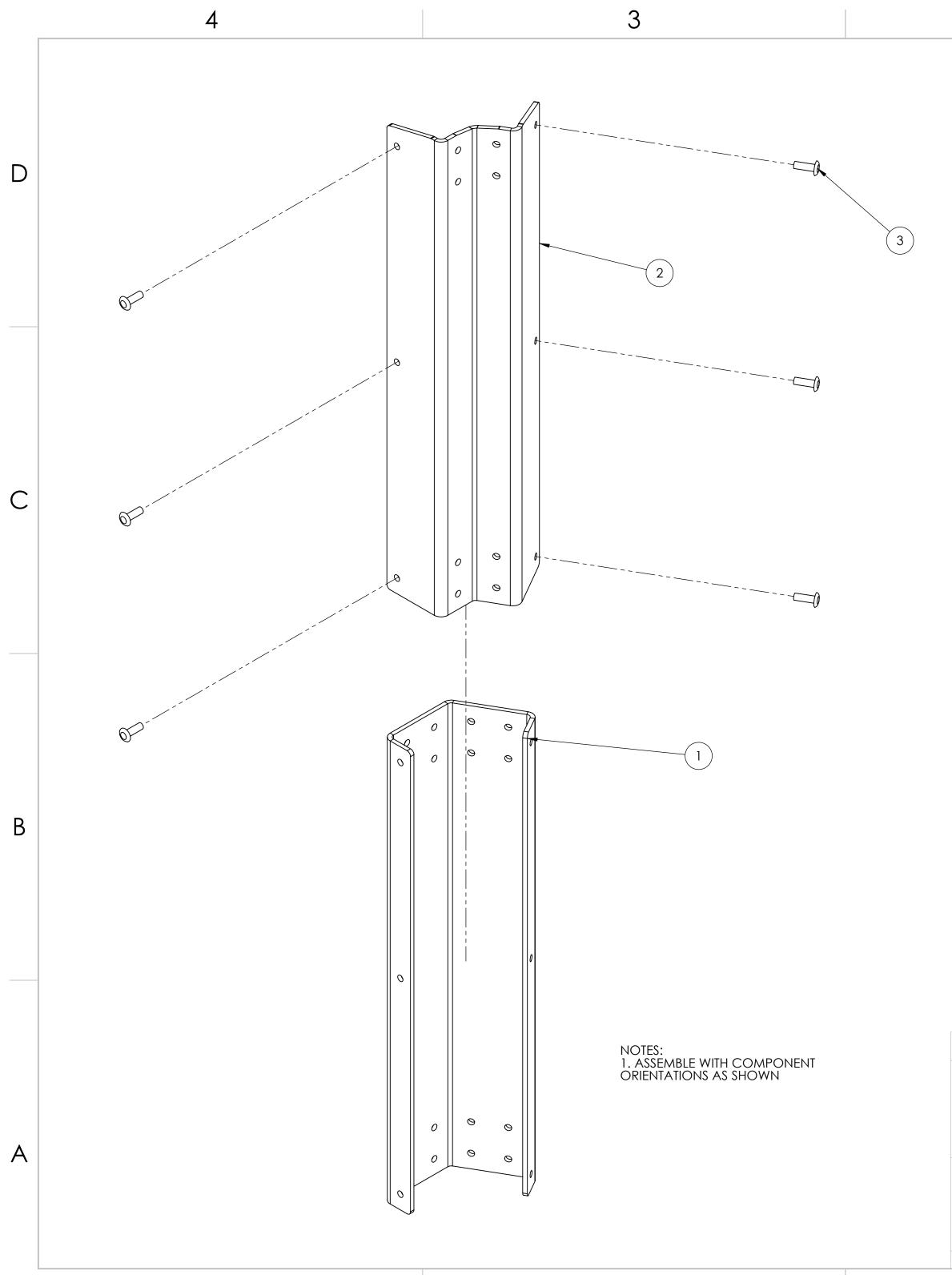
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	ITEM NO.	PART NUM	IBER			DESCRIPTIO	Ν		QTY.	
-	1	GE-25322-01		Οι	Outer Slice Right Bottom Channel			əl	1	
-	2	pem_clinchnut 054	054 1/4-		/4-20 self-clinching nut, .054 shank				2	1
UNLESS OTHERWISE SPECIFIED	VEND	NAME	DAT	E		FIRST.		S COLLE		
	DRAWN	NE	9/30/20)24					SOLIDWORKS eling Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	1° THE INFO THIS DRA PROPER REPROD WHOLE	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST®</i> . A DUCTION IN PART WITHOUT THE WE ION OF <i>FIRST</i> ® IS	TAINED IN DLE NY OR AS A RITTEN	1	TITLE: Outer Slice Rig Bottom Chann W PEMs			nne		A
PROHIBITED.			ALL BURRS AND SHARP		С	GE-	25322	2		
DO NOT SCALE DRAWING	F			1	SCALE: 1:2		SHEE	Sheet 1 Of 1		
2						1	1			-

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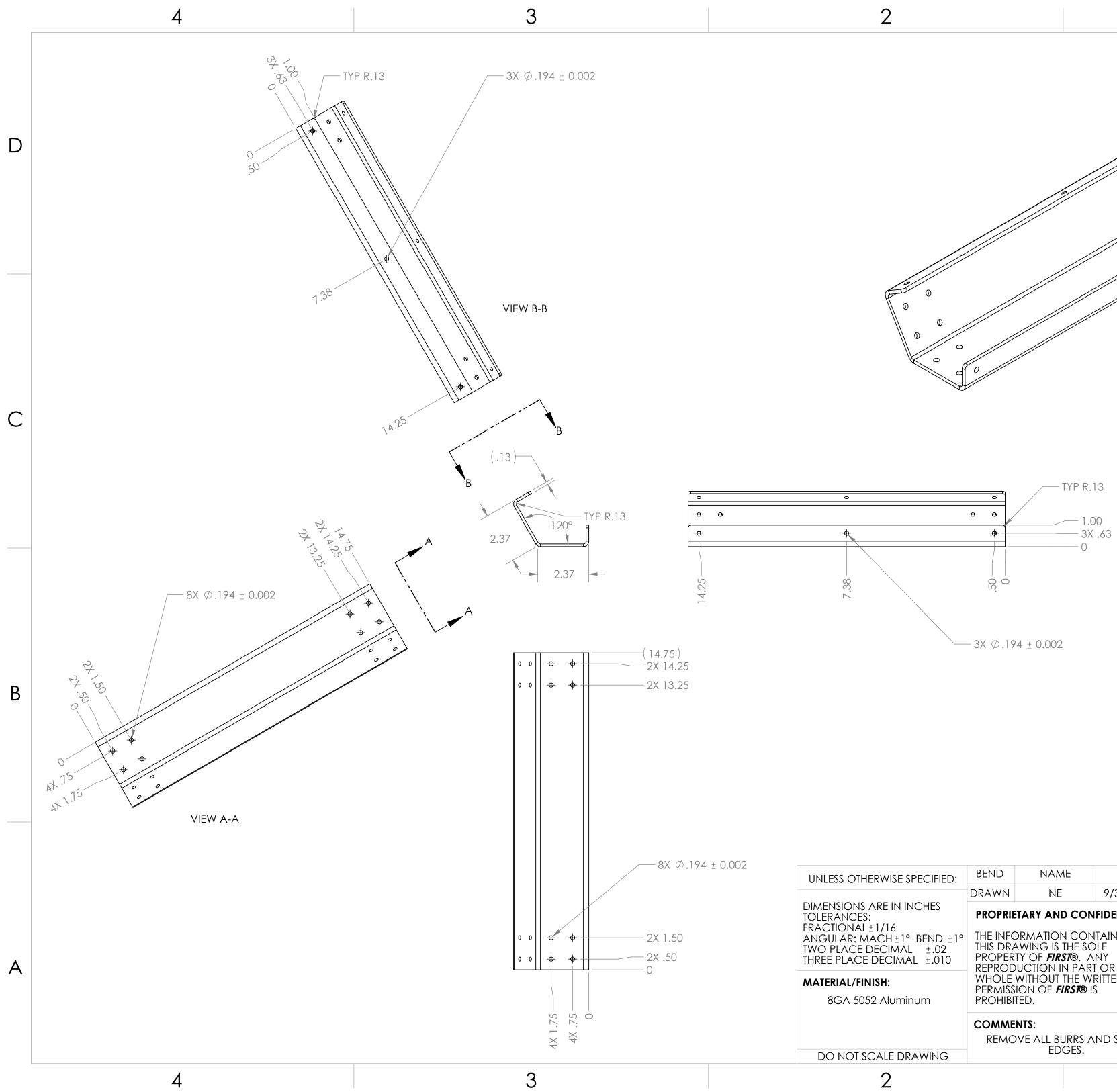


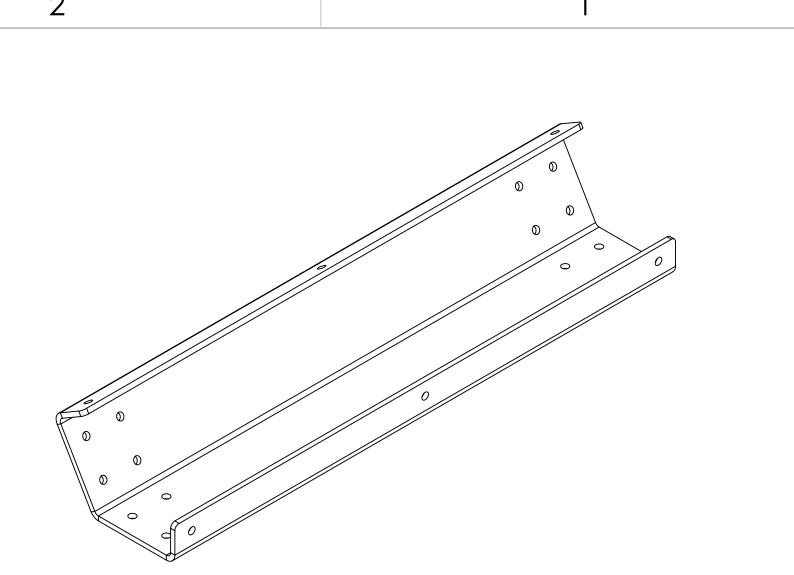


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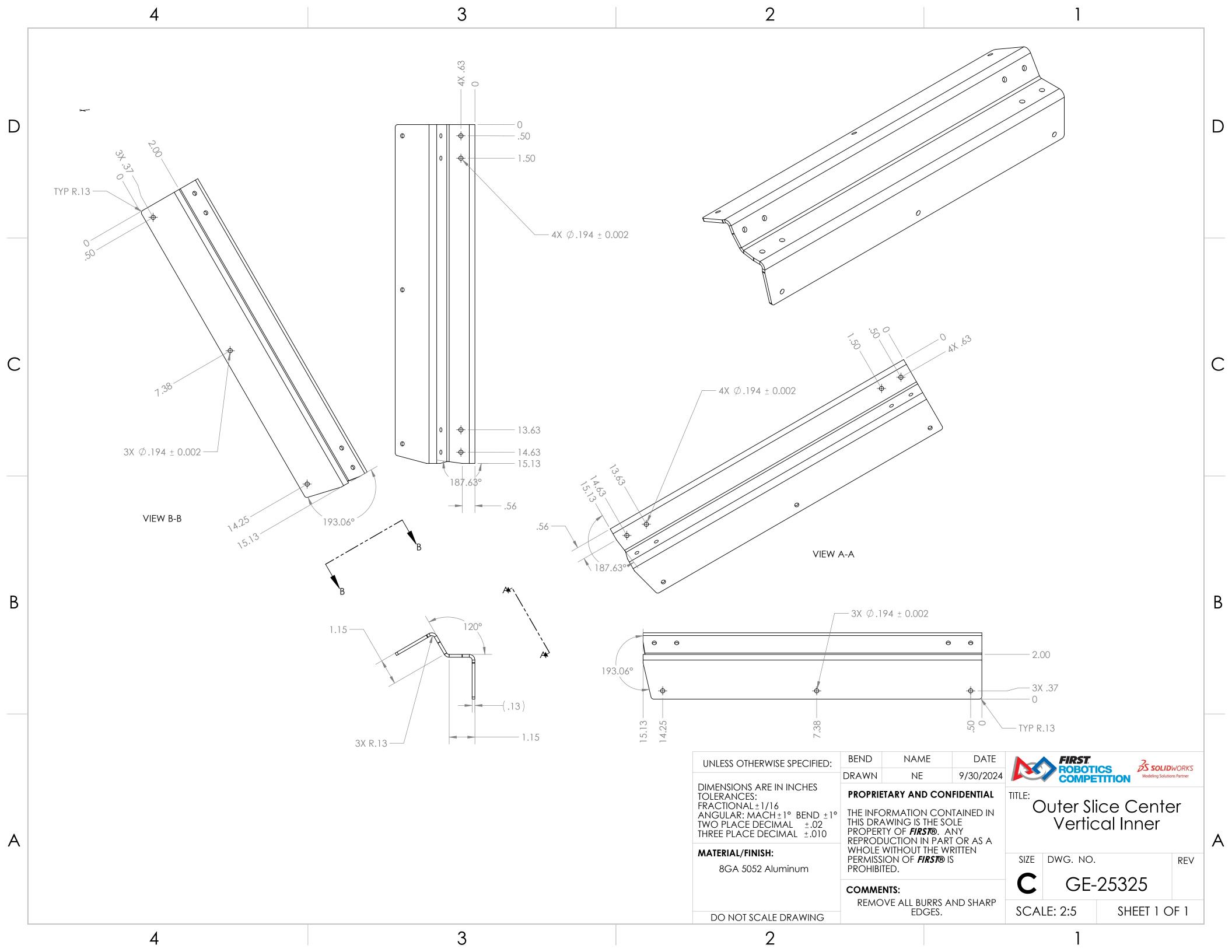
	ITEM NO.	PART NUM	PART NUMBER		DESCRIPTION			1
	1	GE-25324		Outer Sli	ce Center Ve	ertical Outer	1	1
	2	GE-25325		Outer SI	ice Center V	ertical Inner	1	1
	3	rivet18752	51375	3/16" Alur	ninum Rivet, Range	.251375 Grip	6	
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT	E	FIRST. 2			
	DRAWN	NE	9/30/20)24			Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1 TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005 MATERIAL/FINISH:	RMATION CON WING IS THE SC Y OF FIRST® . A JCTION IN PART VITHOUT THE WI	FIRST® . ANY N IN PART OR AS A		Outer Slice Center Vertico				
	PROHIBIT	PERMISSION OF FIRST® IS PROHIBITED.			dwg. no. GE-	25323	REV	
			all burrs and sharp Edges.		LE: 1:2	SHEET 1	OF 1	-
2					1			-

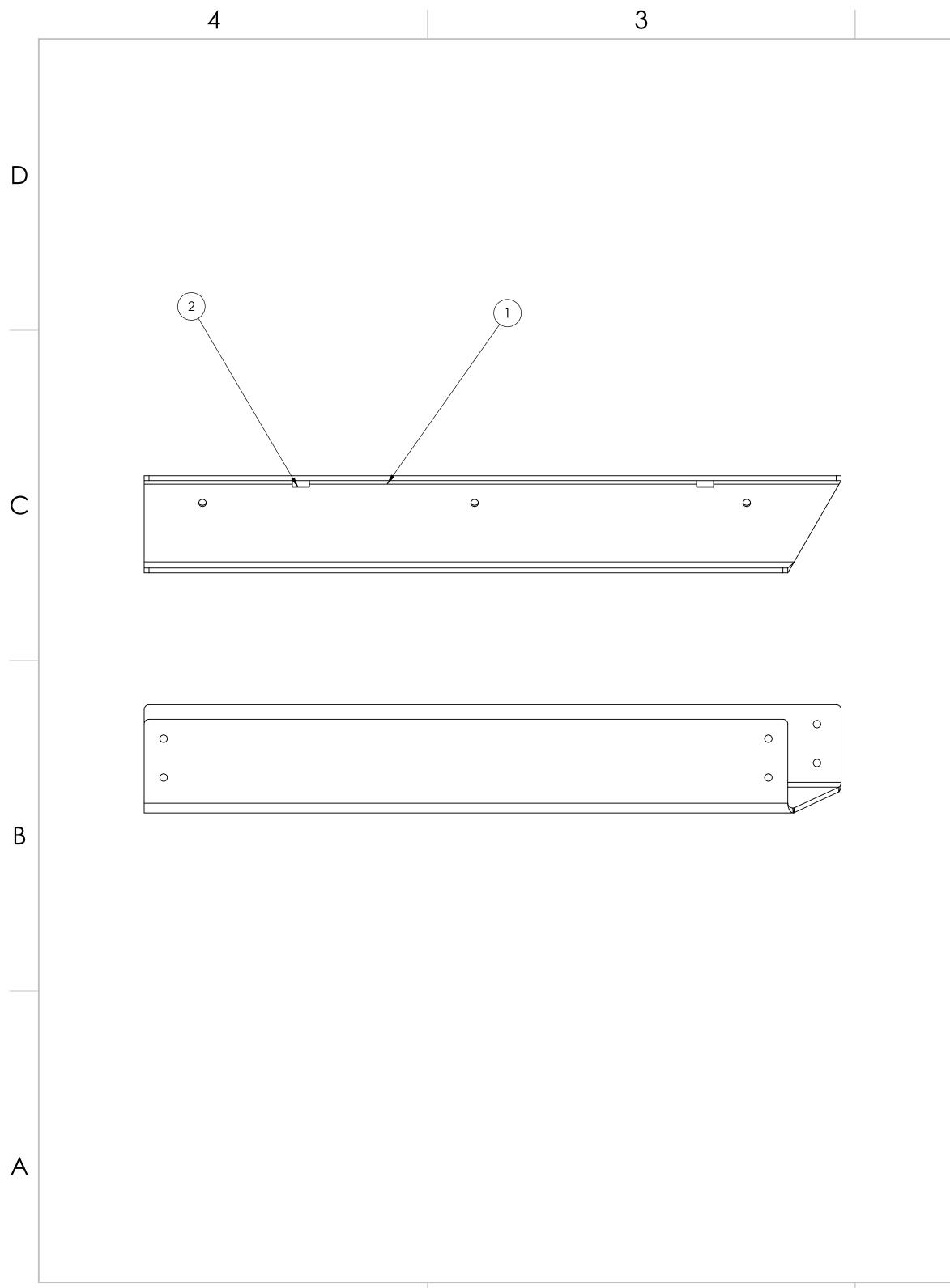


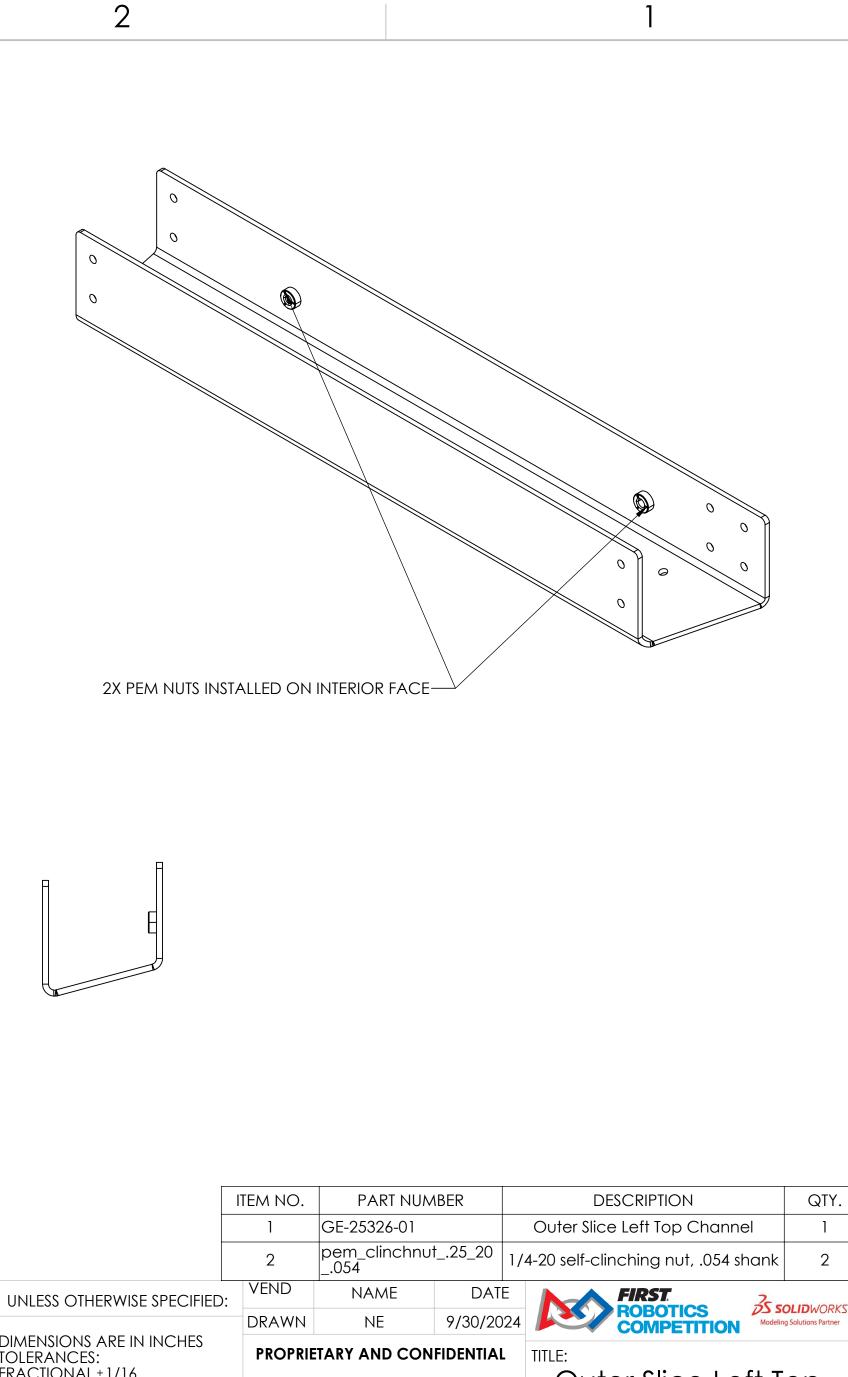


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UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE		FIRST.		25 50115	WORKS	
	DRAWN	NE	9/30/2024				Modeling Solution		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.02 THREE PLACE DECIMAL±.010	THE INFO THIS DRA PROPER	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A DUCTION IN PART	TAINED IN DLE NY		uter Sli Vertico			er	A
MATERIAL/FINISH: 8GA 5052 Aluminum		WITHOUT THE WI ION OF FIRST® IS TED		SIZE	E DWG. NO. RE		REV		
	СОММЕ	- 		С	GE-25324				
do not scale drawing	REMC	OVE ALL BURRS A EDGES.	SCALE: 1:3		SH	HEET 1 OF 1			
2					1				_



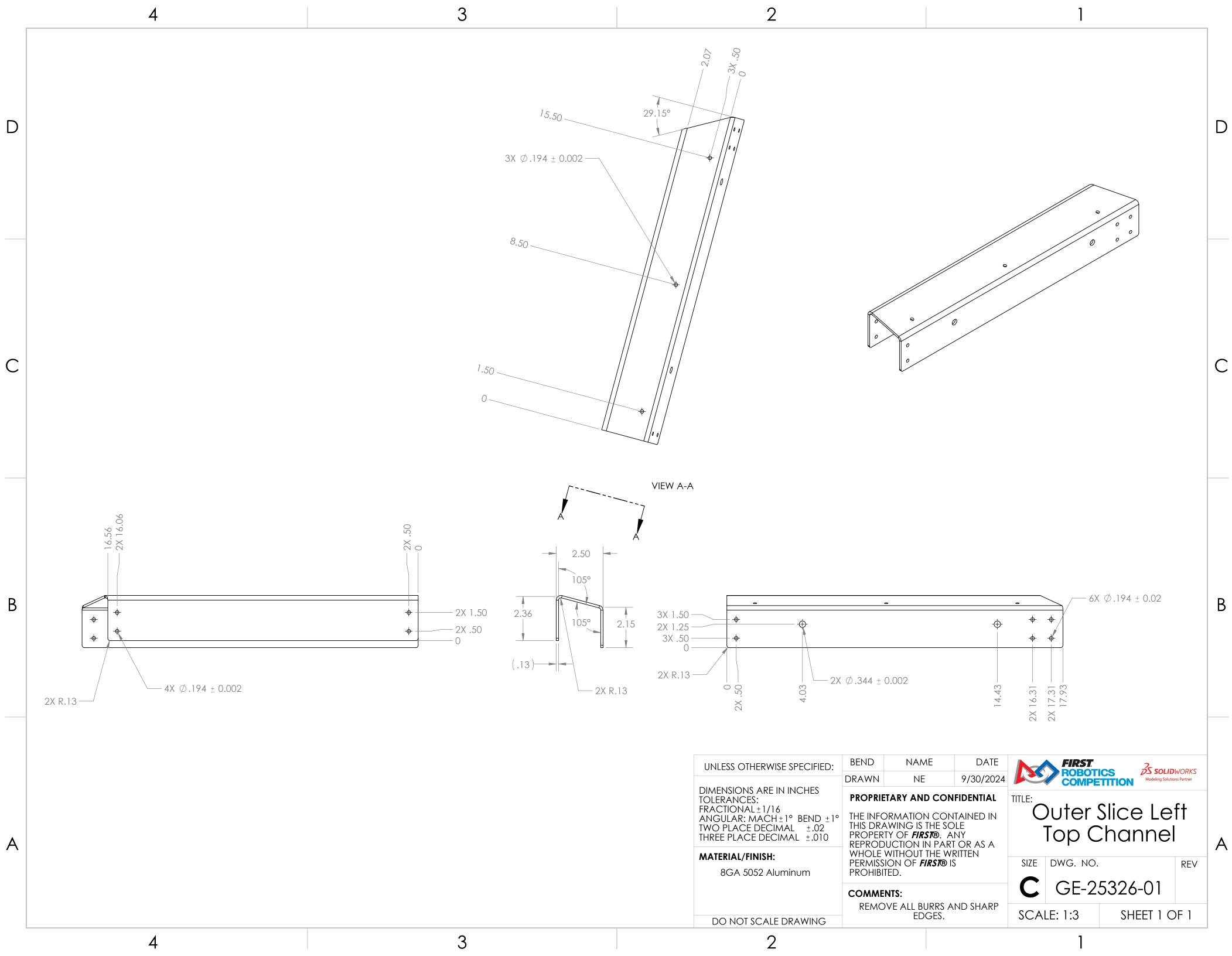


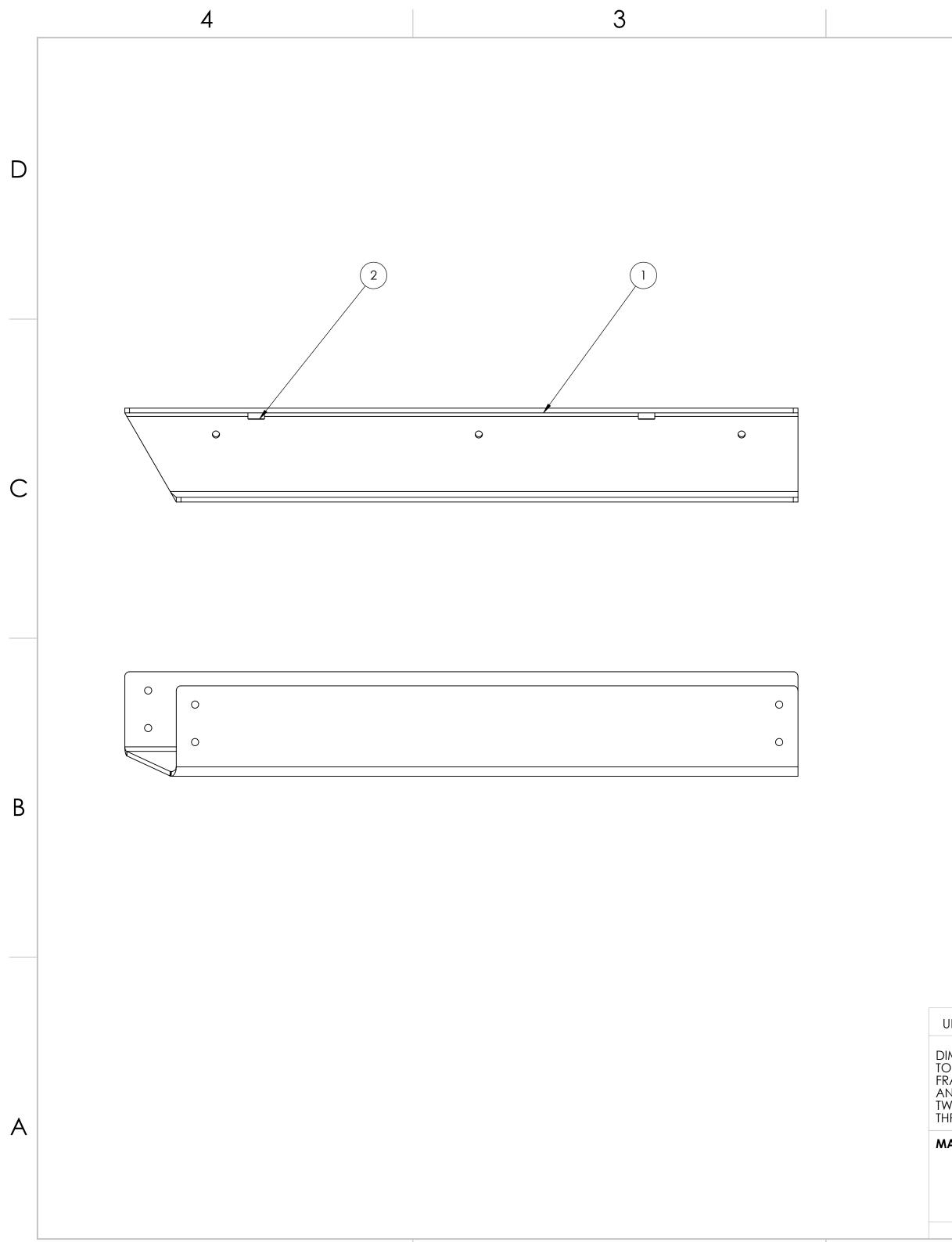


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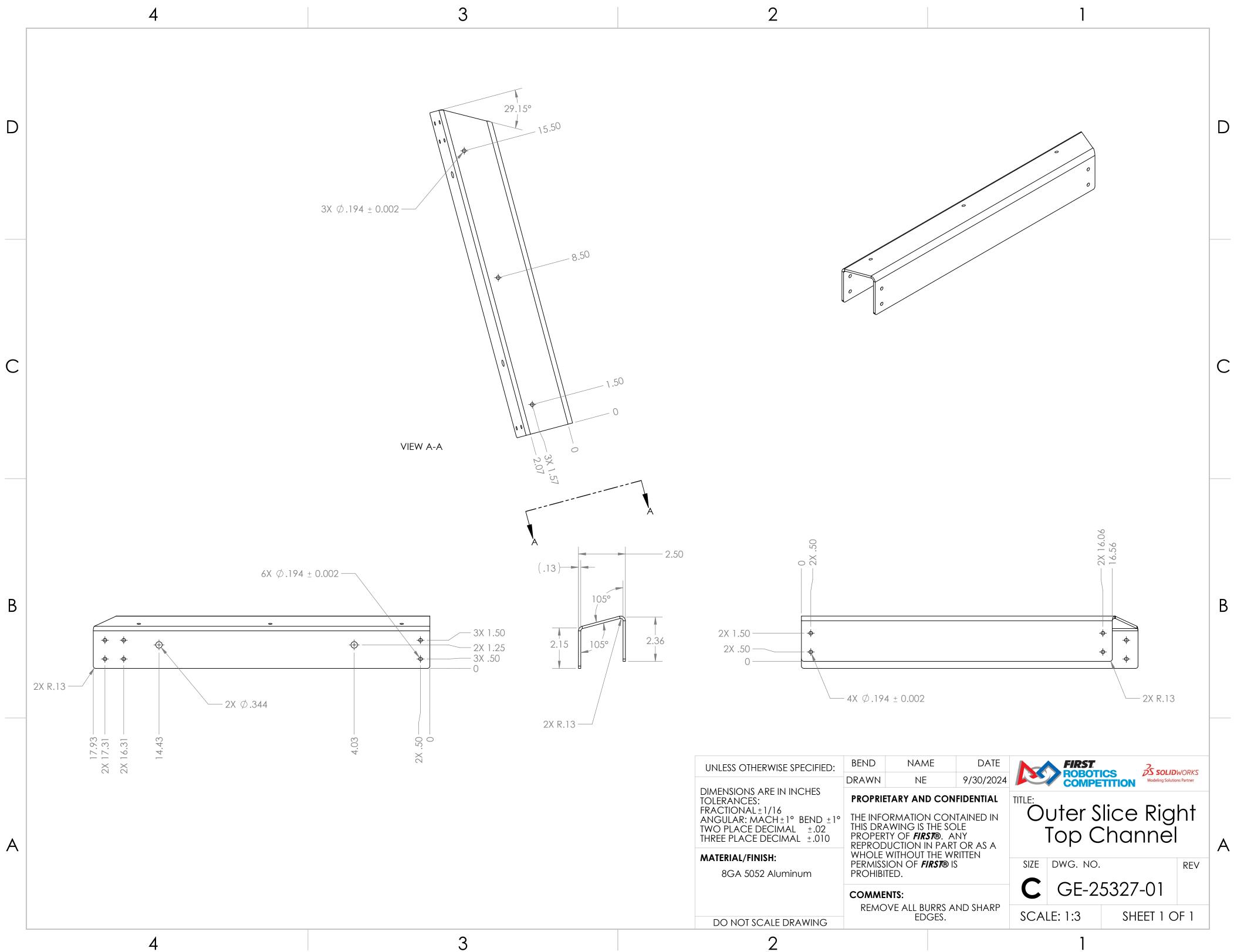
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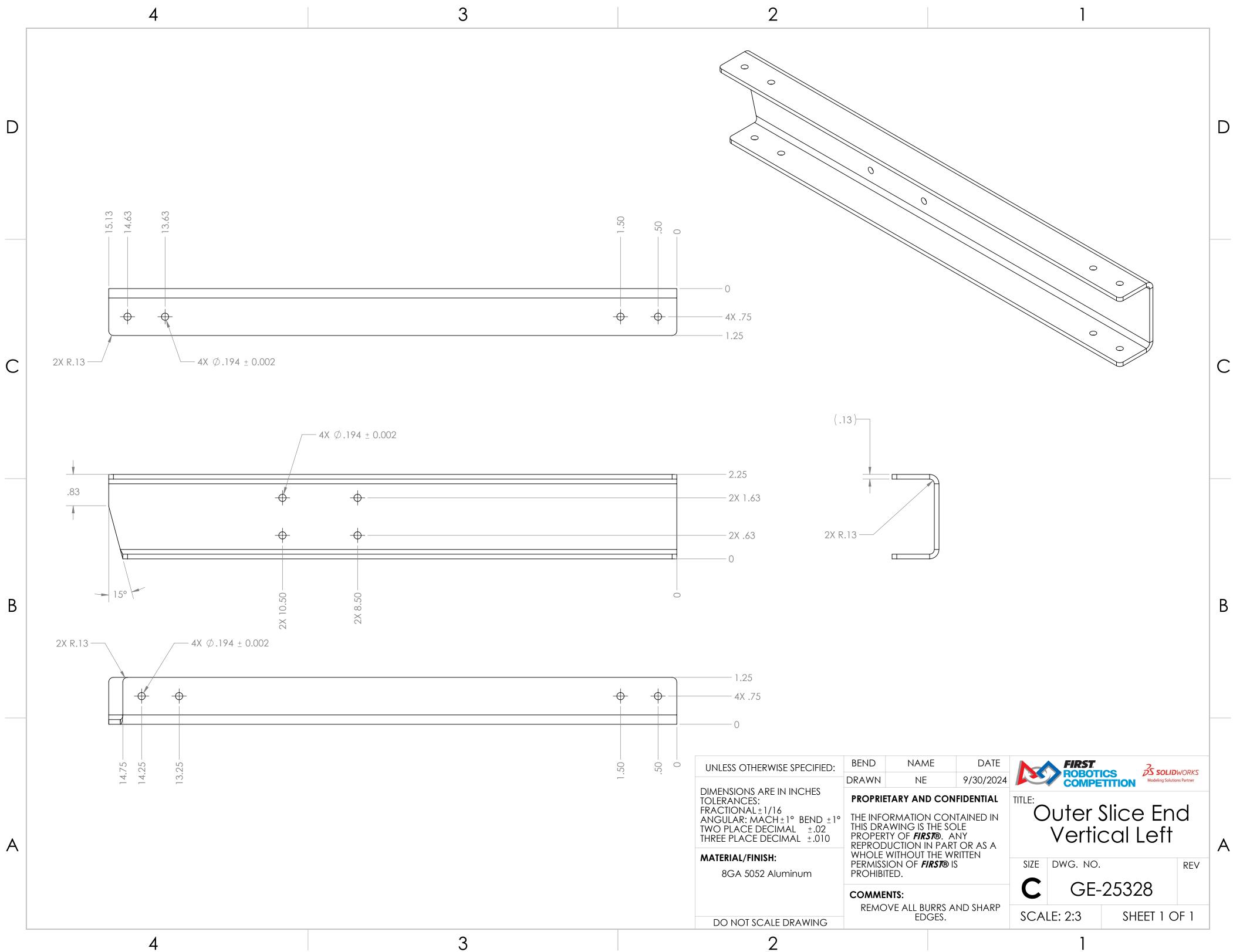
Solid WORKS DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST®**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST®** IS PROHIBITED. Outer Slice Left Top Channel W PEMs Α MATERIAL/FINISH: SIZE DWG. NO. REV С GE-25326 COMMENTS: REMOVE ALL BURRS AND SHARP EDGES. SCALE: 1:2 SHEET 1 OF 1 DO NOT SCALE DRAWING 2

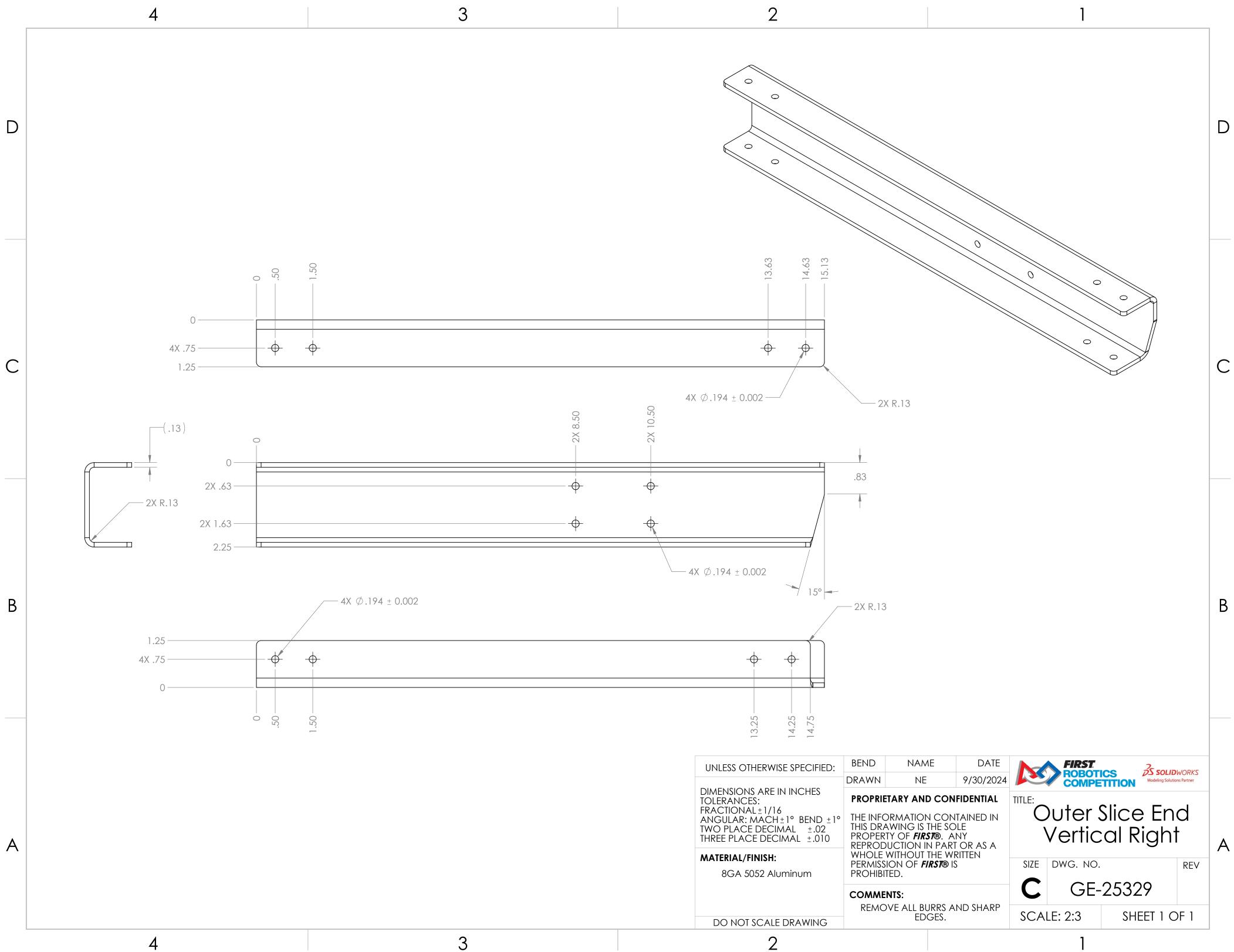


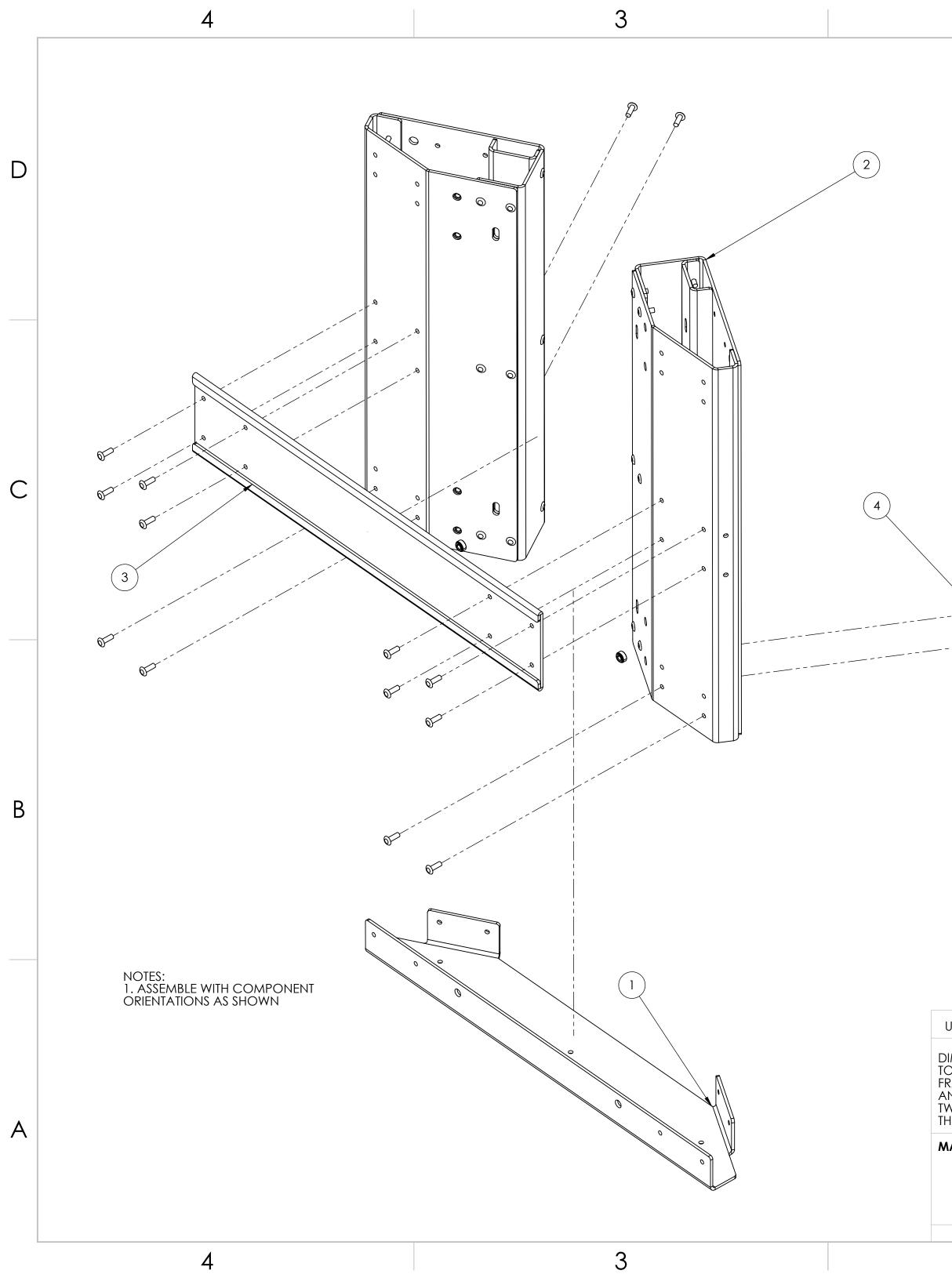


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				<			
2X PEM NUTS INSTALLED O	N INTERIOR F	ACE					С
	ITEM NO.	PART NUM	BER	DESCR	IPTION	QTY.	В
	1	GE-25327-01	DER	Outer Slice Righ		1	
	2	pem_clinchnut 054	25_20	1/4-20 self-clinchir	ng nut, .054 shanl	< 2	
UNLESS OTHERWISE SPECIFIED		NAME	DATI		BOTICS 25	SOLIDWORKS	
DIMENSIONS ARE IN INCHES OLERANCES: RACTIONAL±1/16 ANGULAR: MACH±1° BEND ± WO PLACE DECIMAL ±.01 HREE PLACE DECIMAL ±.005	1° THE INFO THIS DRA PROPER REPROD WHOLE	NE TARY AND CON WING IS THE SO TY OF <i>FIRST</i> ®. AI UCTION IN PART WITHOUT THE WR ION OF <i>FIRST</i> ® IS IED.	TAINED IN LE NY OR AS A RITTEN	TITLE: Outer S Char SIZE DWG.	lice Right Inel W PE <i>l</i> NO.	Top Ms REV	A
do not scale drawing	COMME REMO	NTS: VE ALL BURRS AI EDGES.	ND SHARI		SE-25327	1 OF 1	

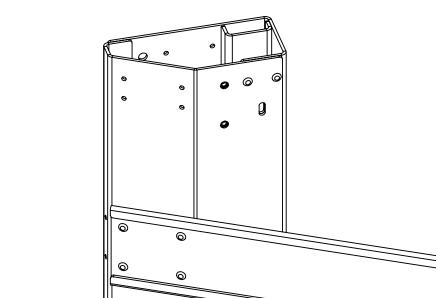








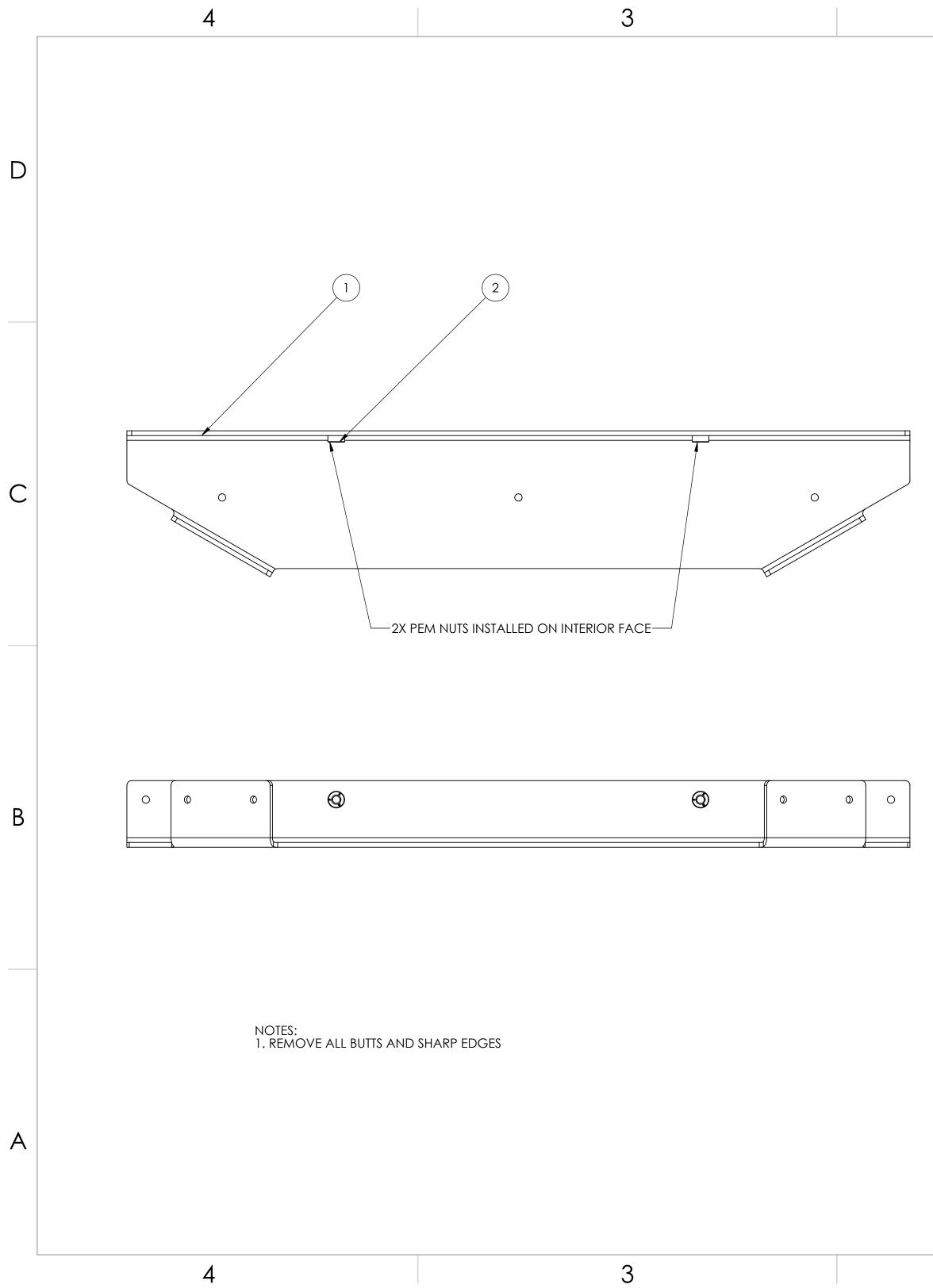
								В	
	ITEM NO.	PART NUN GE-25331	1BER		DESCRIPTIC	nel W PEMs	QTY.		
	2 3 4	3/		Inn	ner Slice Pipe \ er Slice Back S minum Rivet,	2 1 16			
UNLESS OTHERWISE SPECIFIED:	VEND DRAWN	NAME NE	DAT 9/30/20		Range		DLIDWORKS g Solutions Partner		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	MENSIONS ARE IN INCHES LERANCES: ACTIONAL ± 1/16 IGULAR: MACH ± 1° BEND ± 1° O PLACE DECIMAL ±.01					Inner Slice			
MATERIAL/FINISH:		-		SIZE	SIZE DWG. NO. RE				
DO NOT SCALE DRAWING	REMOVE ALL BURRS AND SHARP EDGES. SCALE: 1:3 SHEET 1 OF								

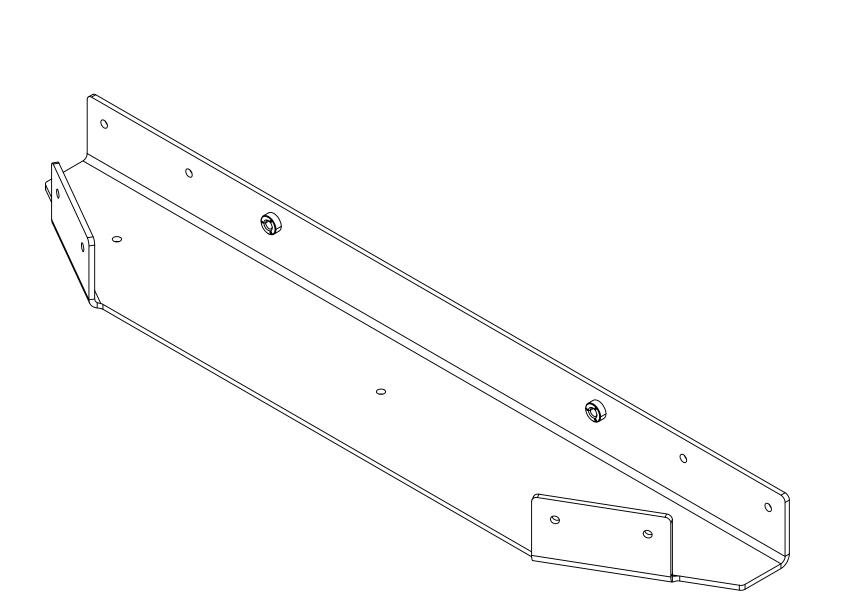


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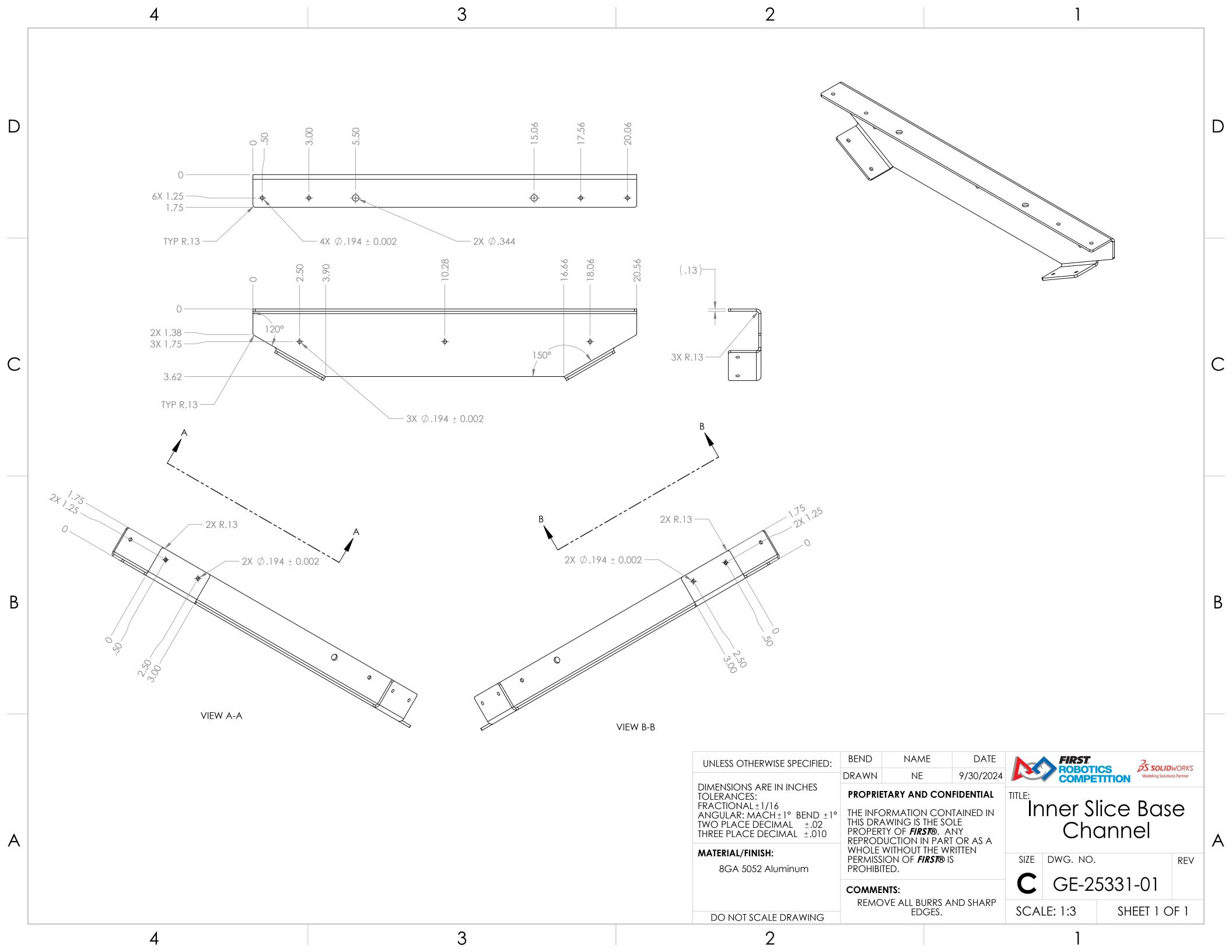


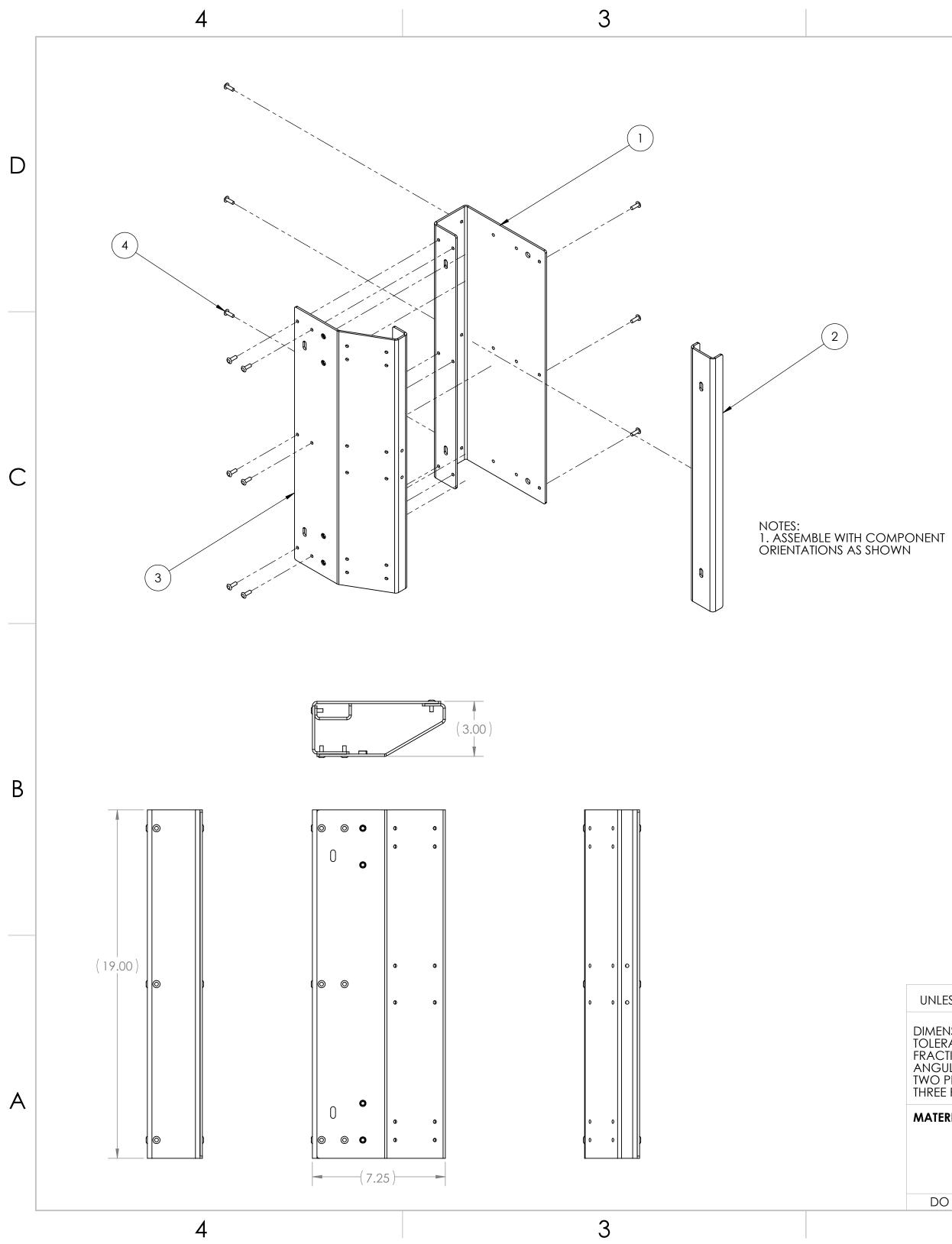
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	ITEM NO.	PART NU	PART NUMBER			DESCRIPTIO	N	QTY.	
	1	GE-25331-01		Ir	ner	Slice Base C	hannel	1	
	2	pem_clinchn 054	ut25_20	1/4-20	self-	clinching nu	t, .054 shank	2	
UNLESS OTHERWISE SPECIFIED	: VEND	NAME	DAT	E		FIRST.	25	OLID WORKS	
	DRAWN	NE	9/30/20)24 📕		ROBOTI		g Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 MATERIAL/FINISH:	1° THE INFO THIS DRA PROPER REPROD WHOLE	TARY AND CO DRMATION CO AWING IS THE S TY OF FIRST® . DUCTION IN PAI WITHOUT THE V ION OF FIRST® TED.	NTAINED II OLE ANY RT OR AS A VRITTEN	N	Ì	DWG. NO.	ce Base I W PEN		A
COMMENTS: REMOVE ALL			SURRS AND SHARP			GE-25331			
DO NOT SCALE DRAWING		EDGES.		20	LAL	E: 1:2	SHEET	IOFI	
2						1			



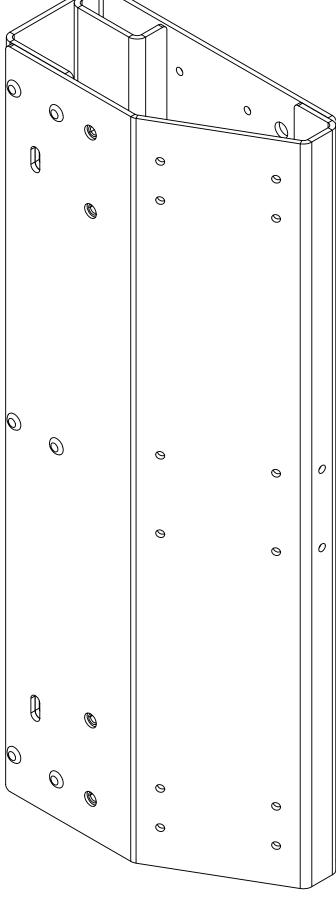




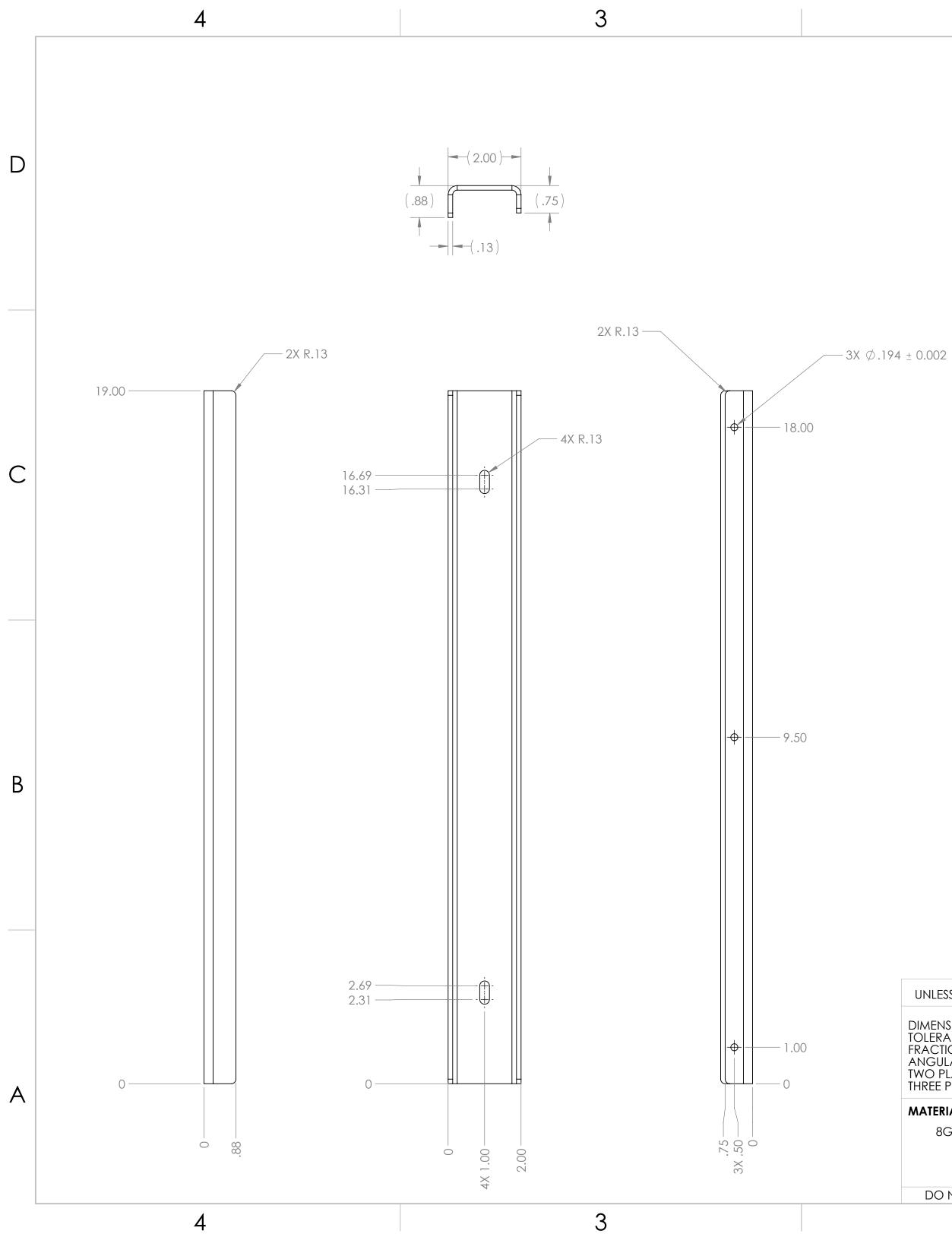
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		-						
	ITEM NO.	PART NUM	ABER		DESCRIPTIO	N	QTY.	
	1	GE-25335		Inner Slice	Pipe Vertico	al Inner Shell	1	
	2	GE-25333		Inne	r Slice Pipe B	acking	1	
	3	GE-25334		Inner Slice	Pipe Vertico W PEMs	al Outer Shell	1	
	4	rivet187525	51375	3/16" Alum	inum Rivet, . Range	251375 Grip	12	
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT	Ë	FIRST.	25.50	DLID WORKS	
	DRAWN	NE	9/27/20)24			Solutions Partner	
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1 TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005 MATERIAL/FINISH:	 THE INFO THIS DRA PROPERT REPRODI WHOLE V 	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST®</i> . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST®</i> IS PROHIBITED.			Inner Slice Pipe Vertical			
	PROHIBIT				DWG. NO.	25332	REV	
	COMMEN					20002		
DO NOT SCALE DRAWING	REMO	ve all burrs a Edges.	ND SHAR	SCA	LE: 1:4	SHEET 1	OF 1	
2					1			

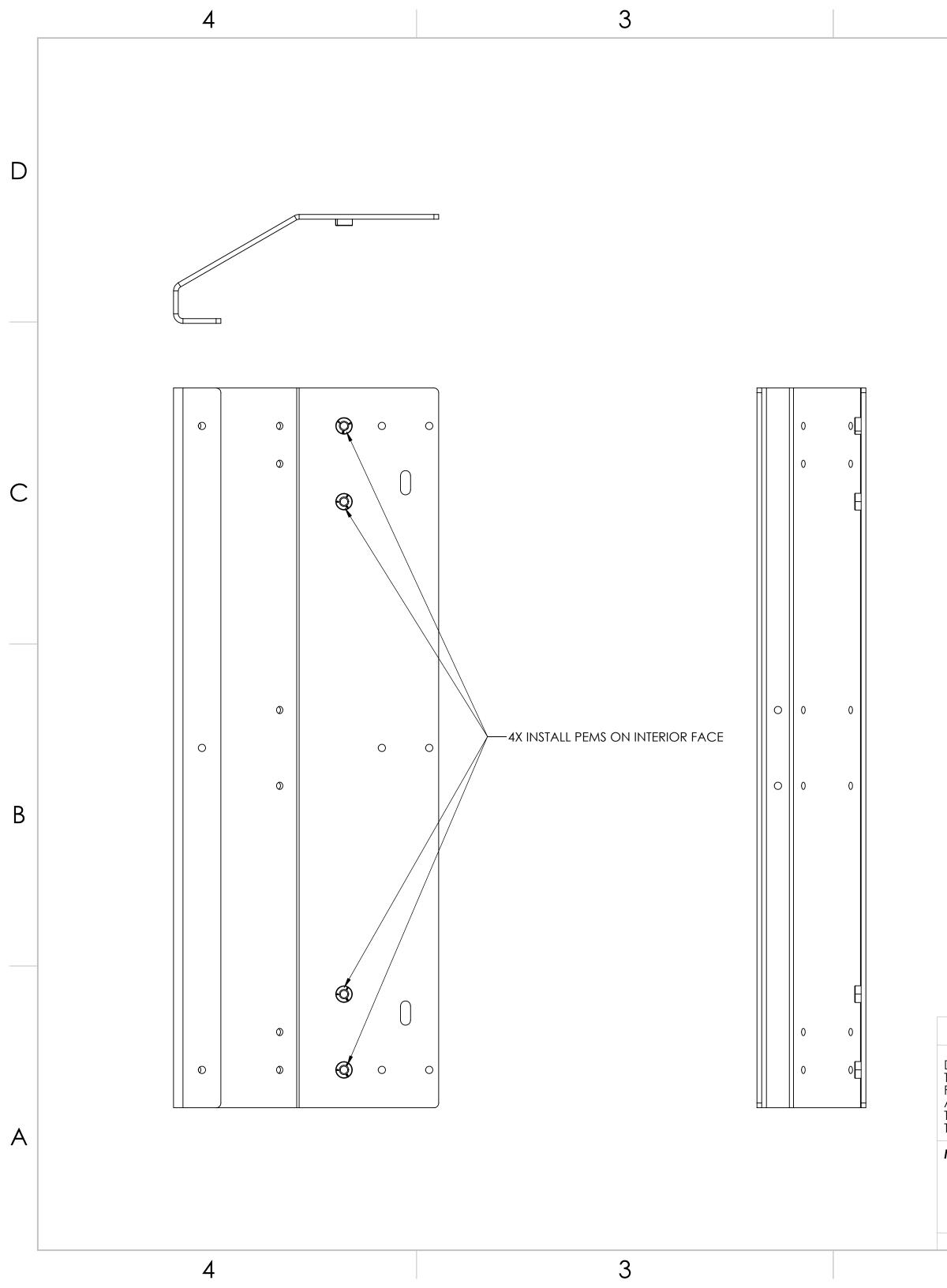


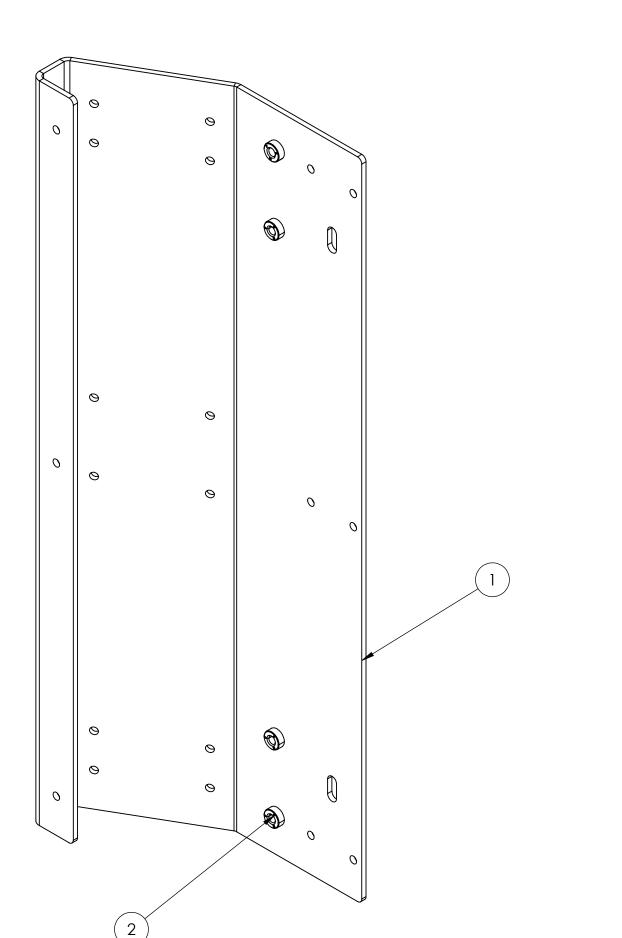
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UNLESS OTHERWISE SPECIFIED:	BEND	NAME	DATE		FIRST.		S SOLIDI	NOPKS	
	DRAWN	NE	9/27/2024	4 ROBOTICS COMPETITION					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.02 THREE PLACE DECIMAL±.010	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A			Inner Slice Pipe Backing					
MATERIAL/FINISH:		WITHOUT THE WE ION OF FIRST ® IS	SIZE DWG. NO.			REV			
8GA 5052 Aluminum	PROHIBI		,						
	COMMENTS:			C GE		-25333			
	REMC	VE ALL BURRS A EDGES.	ND SHARP	SCAL	ALE: 1:2 SHEE		ET 1 OF 1		
do not scale drawing									
2					1				



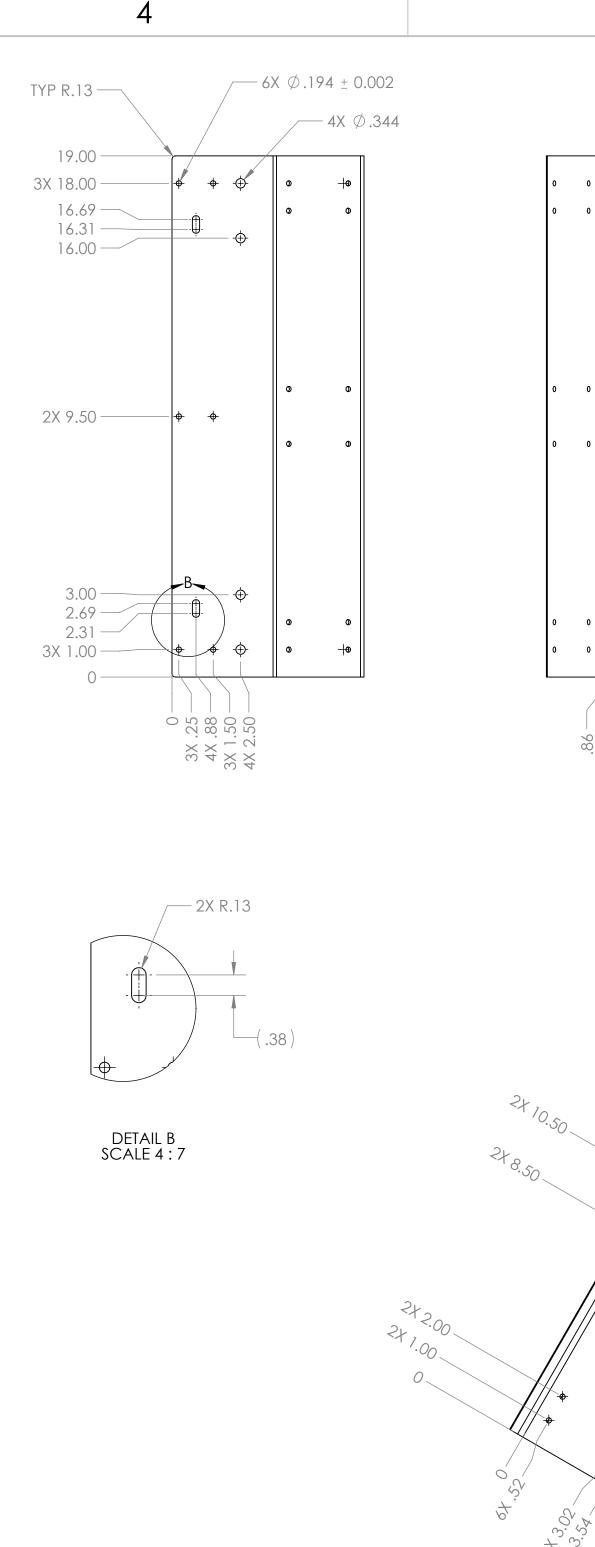


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	ITEM NO.	1 GE-25334-01 Inn		DESCRIPTION Inner Slice Pipe Vertical Outer Shell			QTY	•
-	1						ell 1	
-	2			1/4-20 self-	/4-20 self-clinching nut, .054 shank			
UNLESS OTHERWISE SPECIFIED:	VEND	NAME	DAT		FIRST. 2cm			
	DRAWN	NE	9/27/20	24 🏴			S SOLIDWORN Modeling Solutions Partne	2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND± TWO PLACE DECIMAL±.01 THREE PLACE DECIMAL±.005 MATERIAL/FINISH:	THE INFC THIS DRA PROPER REPROD WHOLE	TARY AND CON DRMATION CON AWING IS THE SO TY OF <i>FIRST</i> ®. A DUCTION IN PART WITHOUT THE W	ITAINED IN DLE .NY T OR AS A RITTEN	Inne C	Inner Slice Pipe Vertical Outer Shell W PEMs			
	PROHIBIT	PERMISSION OF FIRST® IS PROHIBITED.			E DWG. NO. GE-25334		1 RE	V
		Comments: Remove all burrs and sharp Edges.						
DO NOT SCALE DRAWING					SCALE: 1:2 SHEET 1 OF 1			
2					1			



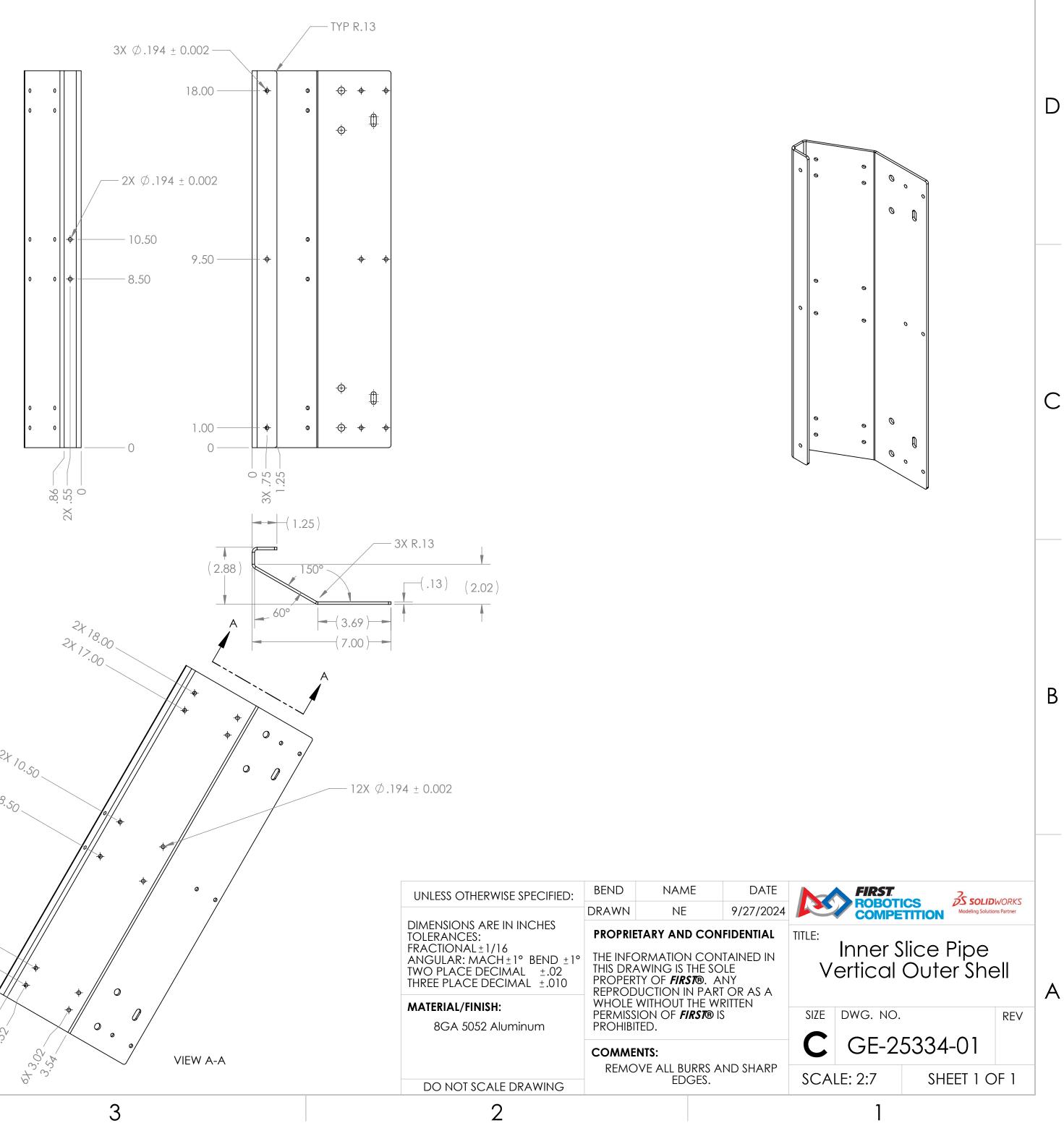
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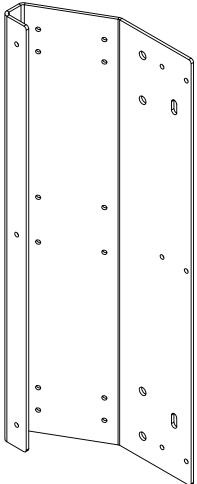
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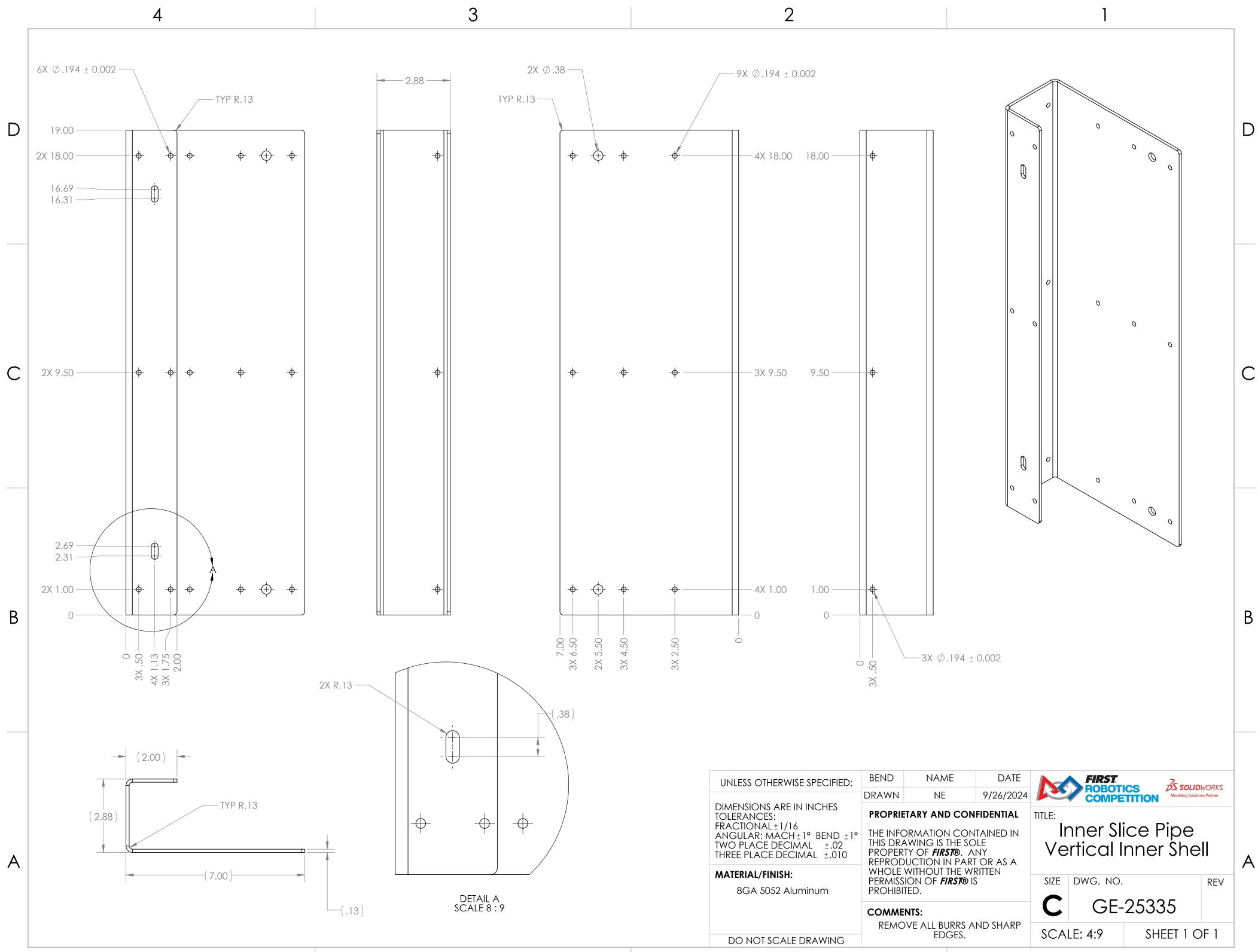
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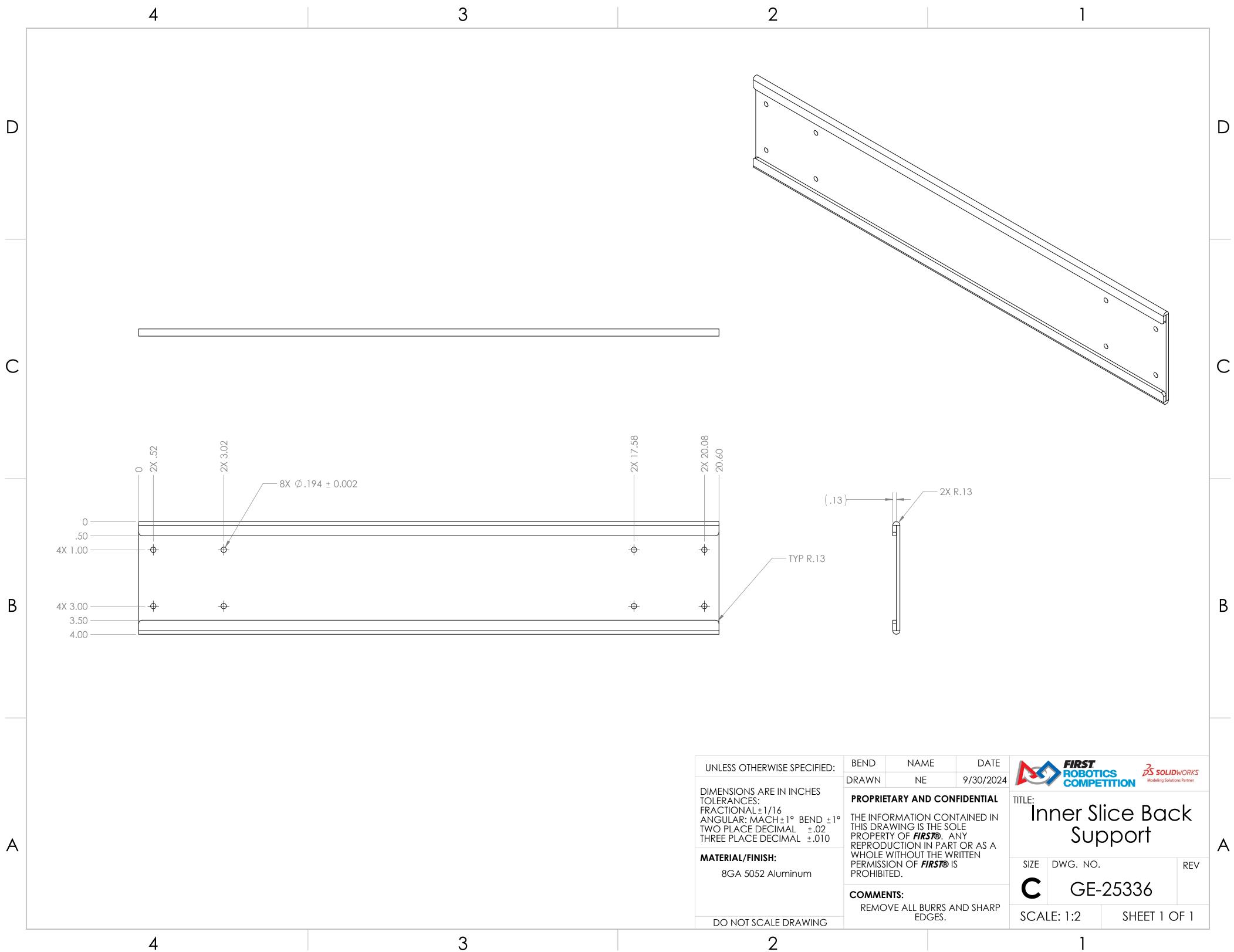
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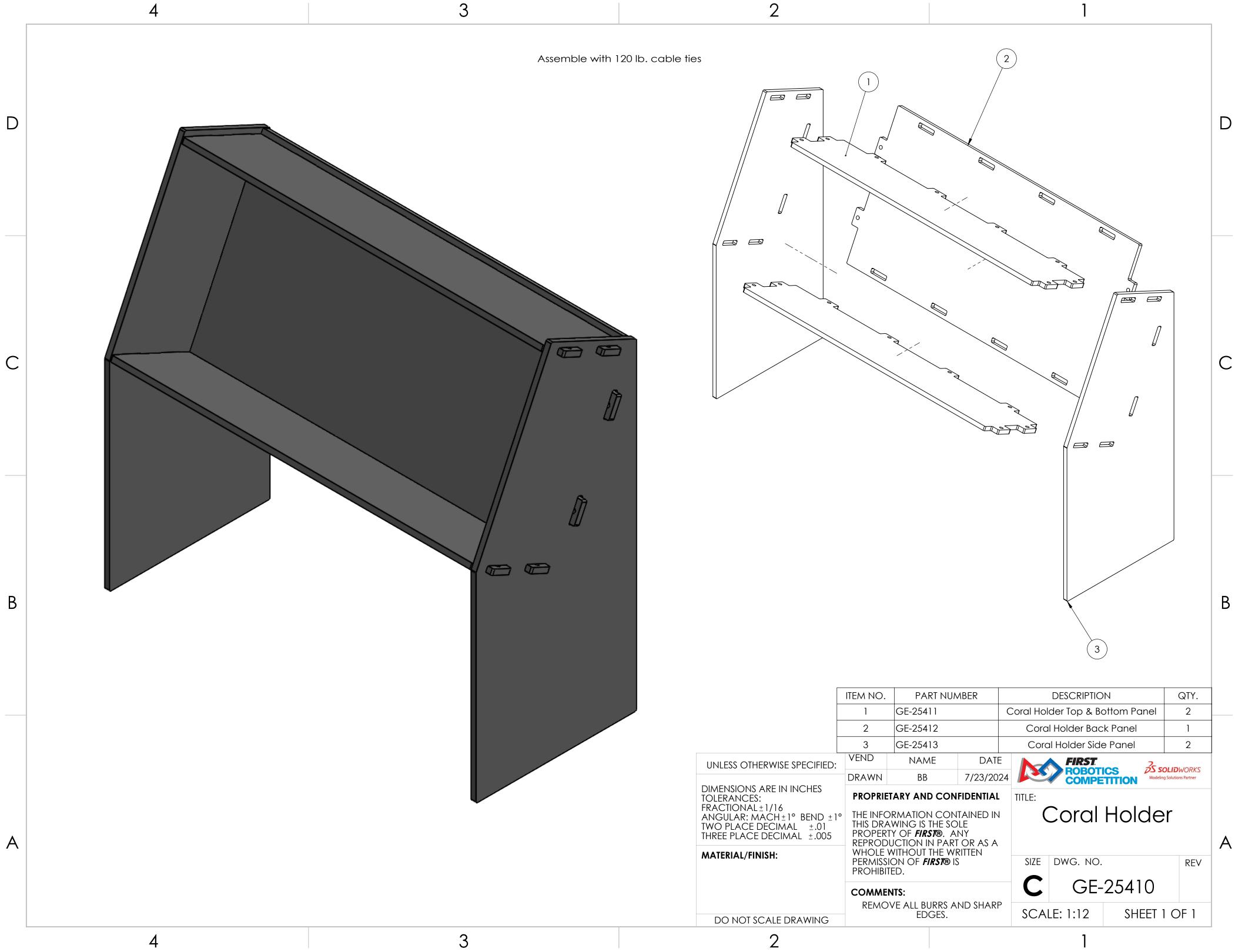
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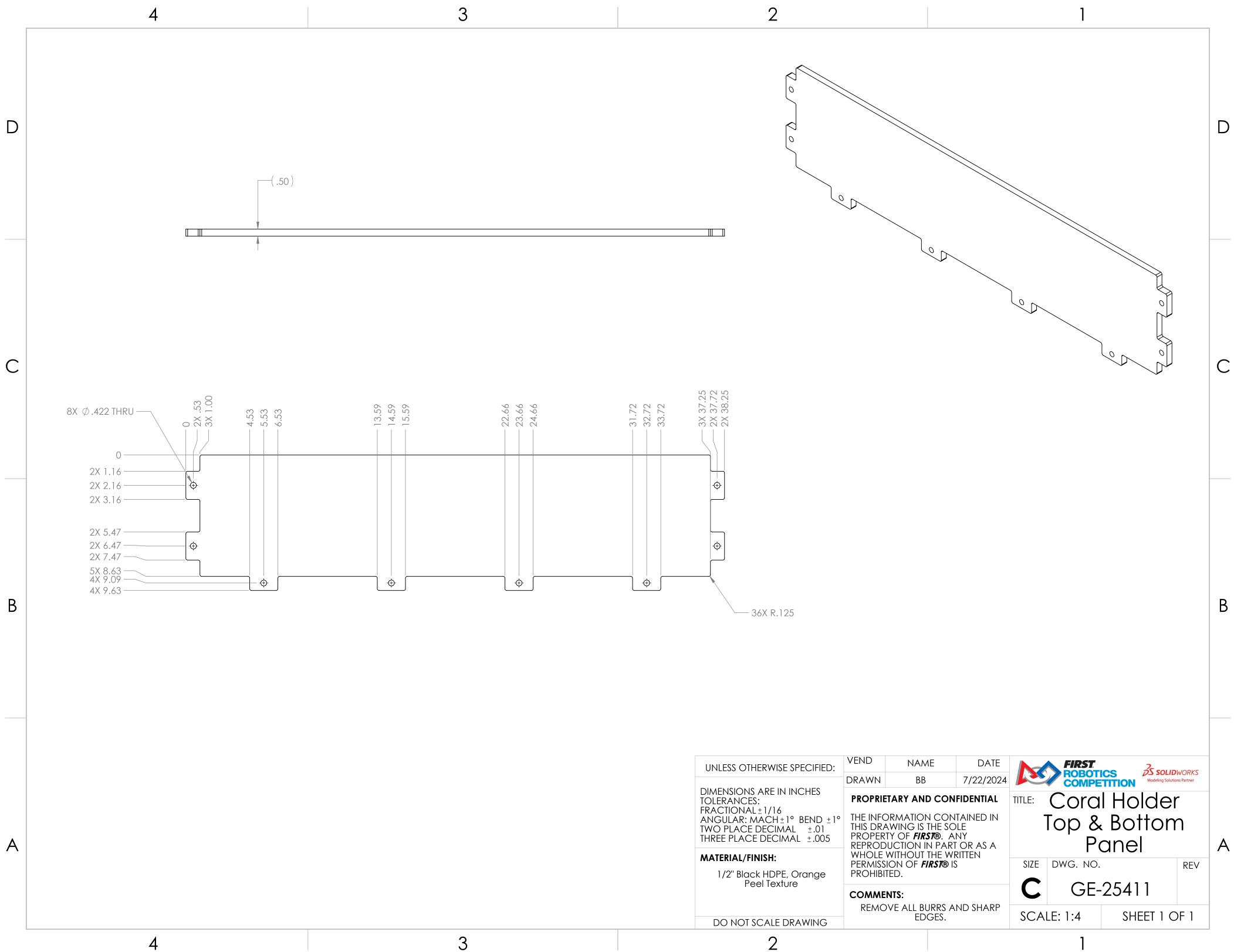


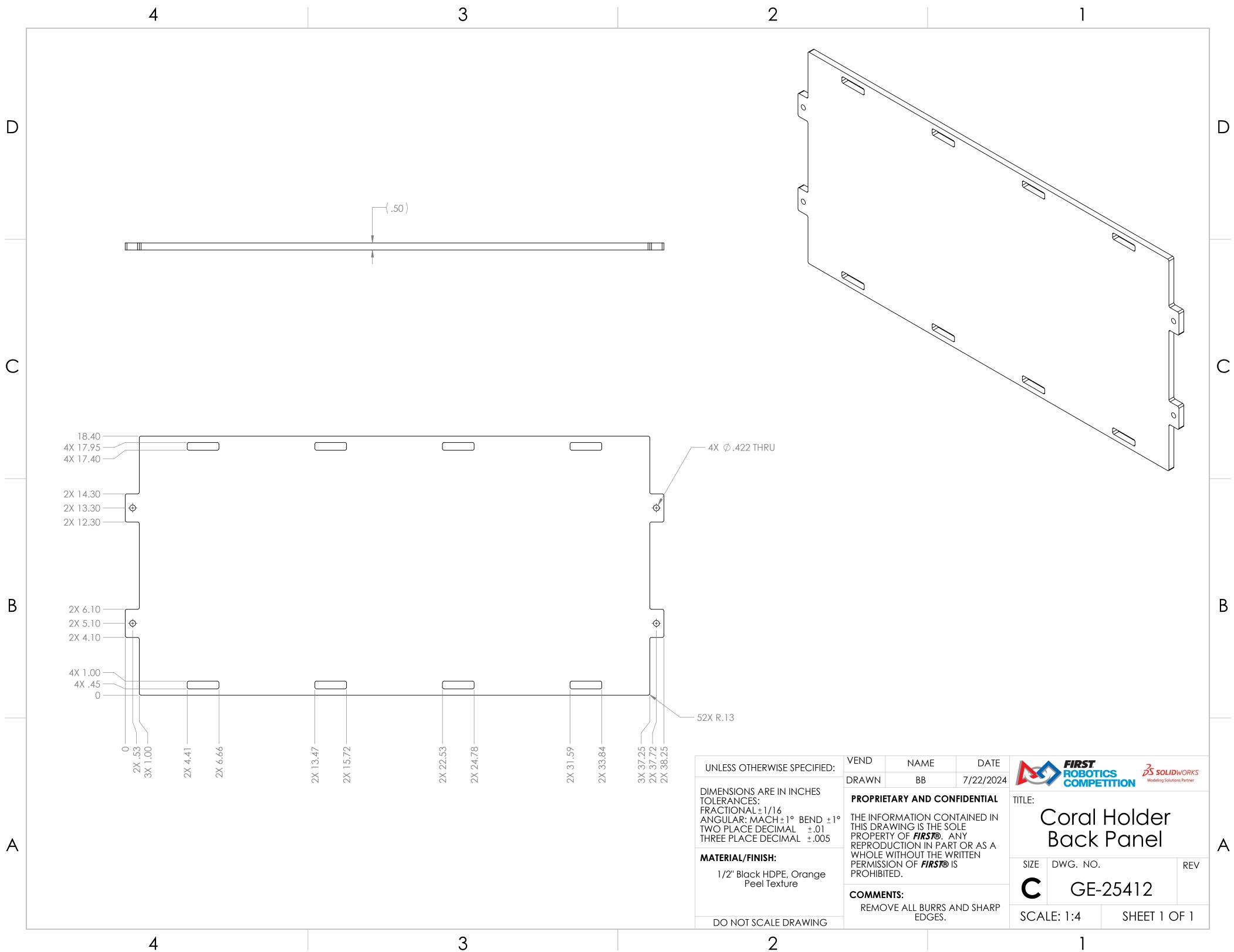


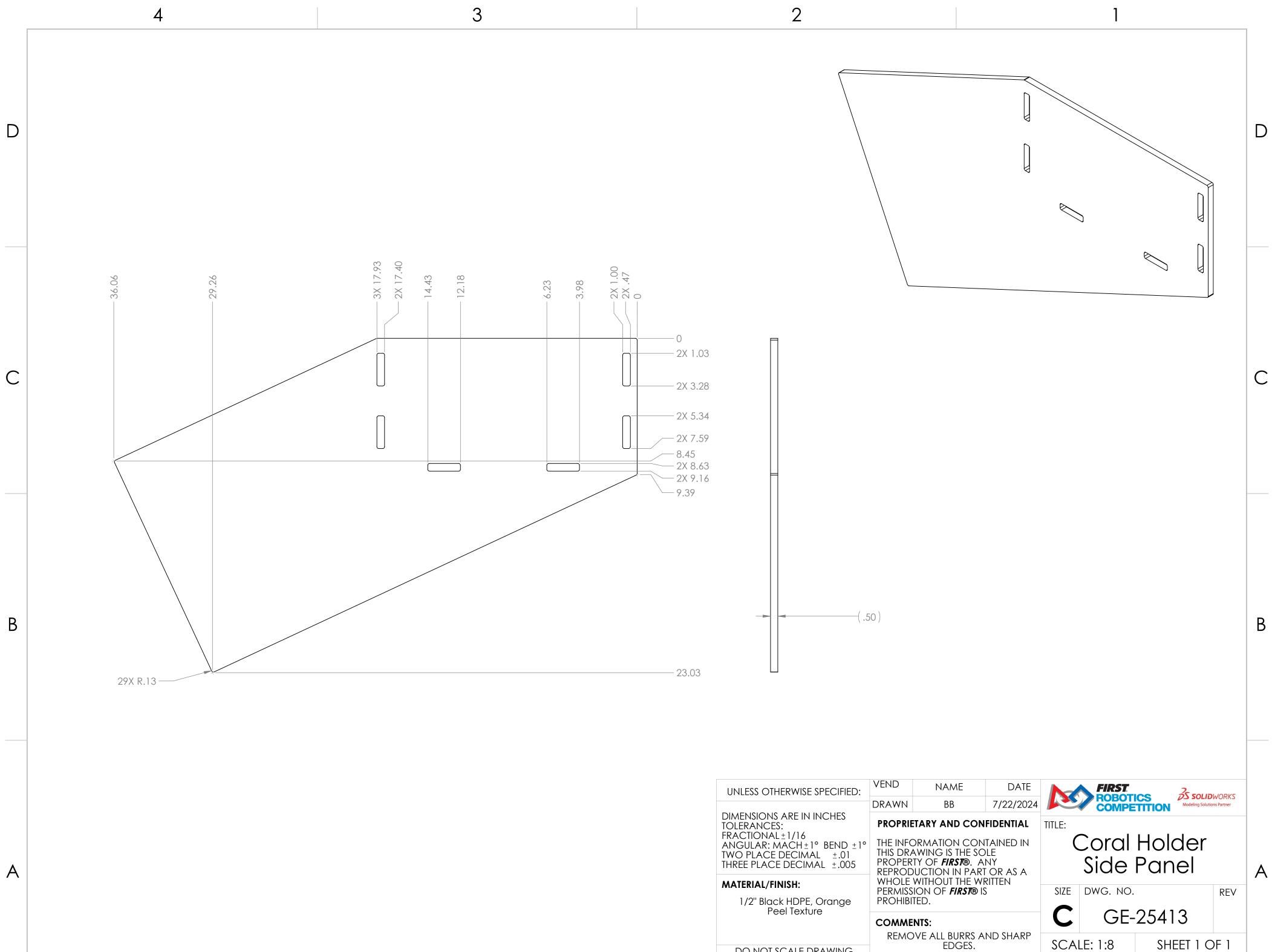




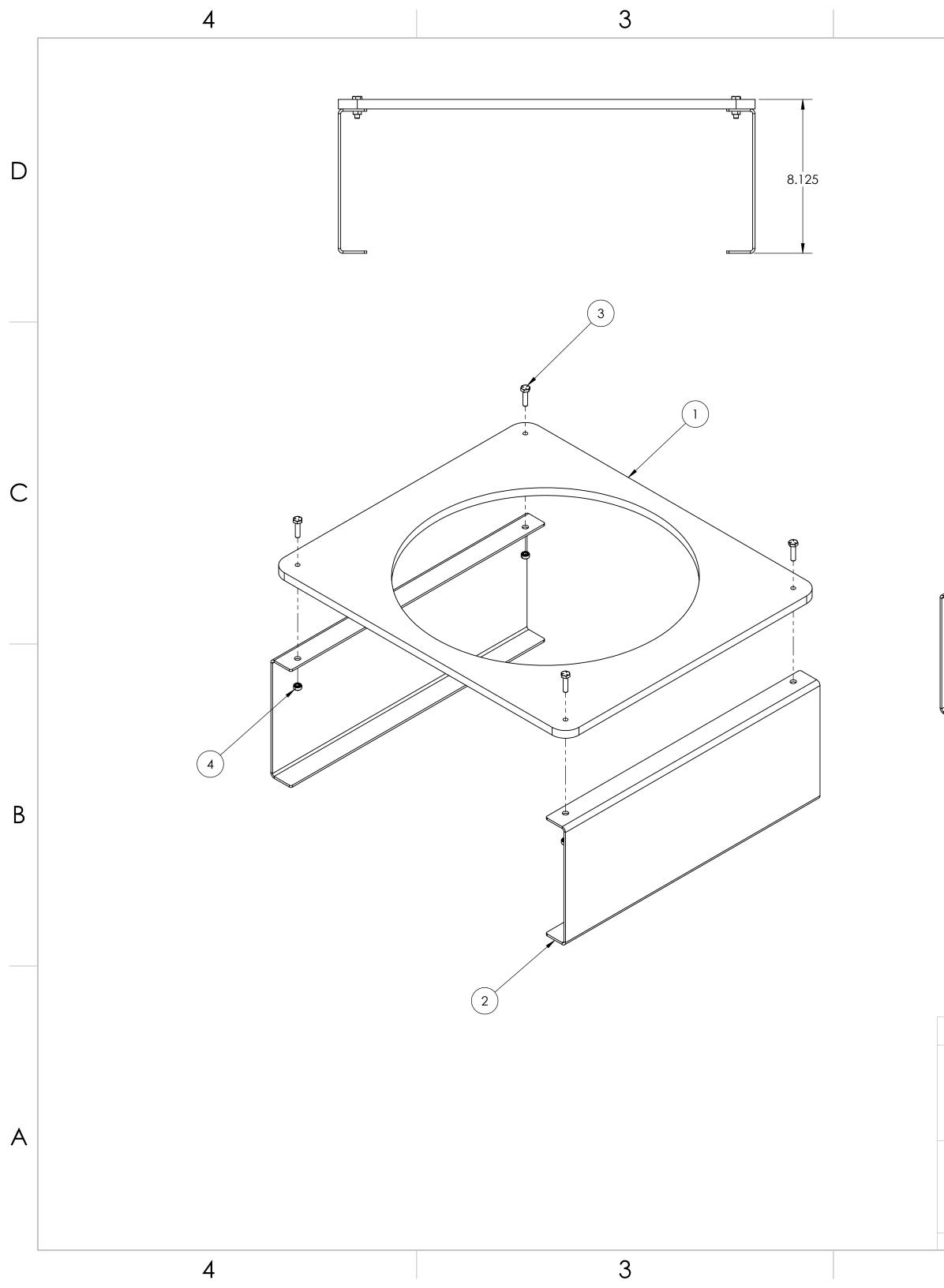




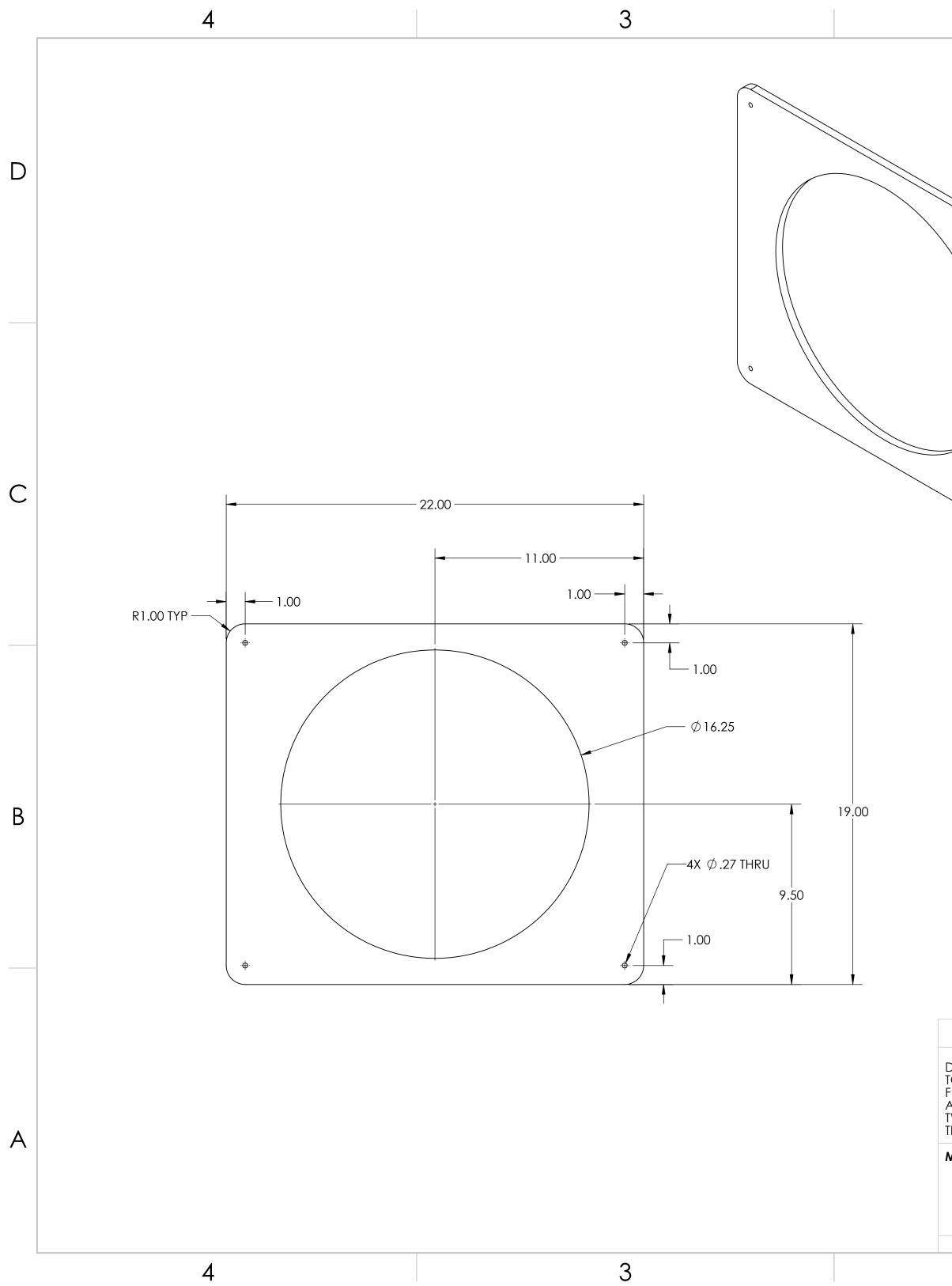




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REMOVE ALL BURRS AND SHARP EDGES.

SCALE: 1:4

SHEET 1 OF 1

DO NOT SCALE DRAWING

