

4

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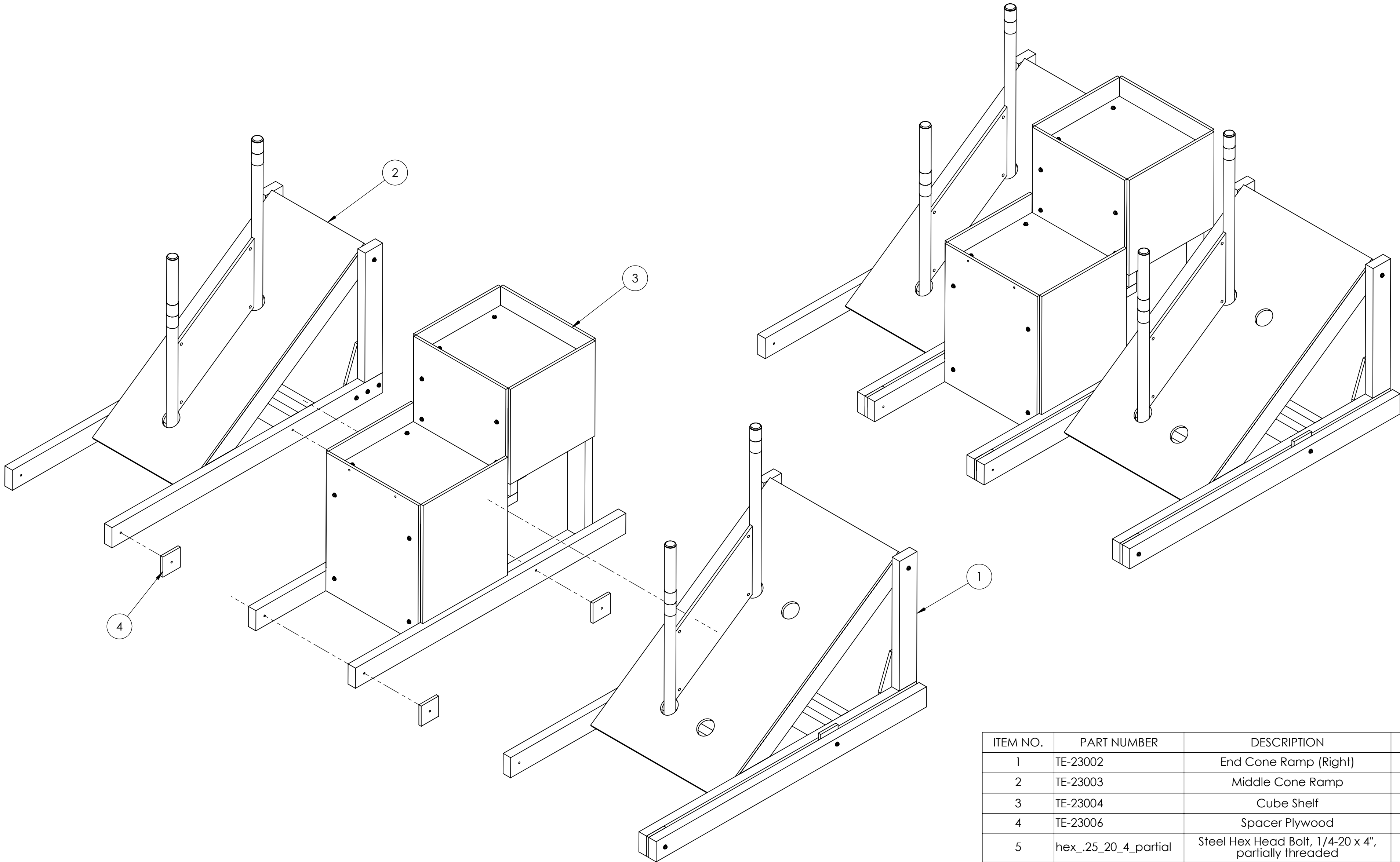
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-23002	End Cone Ramp (Right)	1
2	TE-23003	Middle Cone Ramp	1
3	TE-23004	Cube Shelf	1
4	TE-23006	Spacer Plywood	4
5	hex_.25_20_4_partial	Steel Hex Head Bolt, 1/4-20 x 4", partially threaded	4
6	wing_.25_20	Steel Wing Nut, 1/4"-20, 31/64" Base Diameter	4

Step 1 Build TE-23002, TE-23003 and TE-23004.
Step 2: Bolt together using 1/4-20 x 4" long hex head bolts and wing nuts, using 4 spacers in between each assembly. Washers are optional.

This can be converted to a co-op GRID by swapping out the 1 for another 2.

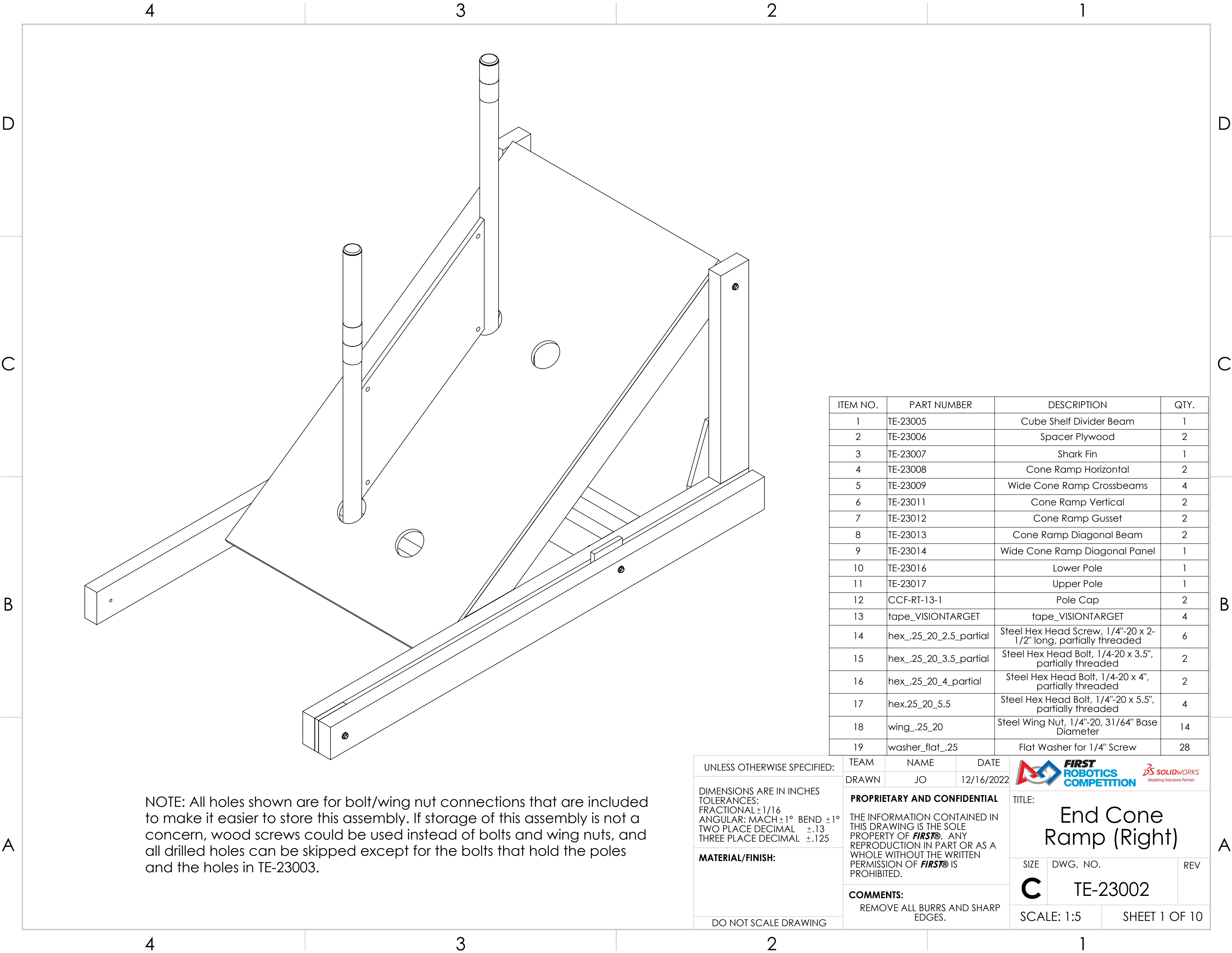
UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		DRAWN	JO	12/21/2022
MATERIAL/FINISH:		PROPRIETARY AND CONFIDENTIAL		
DO NOT SCALE DRAWING		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.		
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
		TITLE: End GRID		
		SIZE	DWG. NO.	REV
		C	TE-23001	
		SCALE: 1:10 SHEET 1 OF 1		

4

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NOTE: All holes shown are for bolt/wing nut connections that are included to make it easier to store this assembly. If storage of this assembly is not a concern, wood screws could be used instead of bolts and wing nuts, and all drilled holes can be skipped except for the bolts that hold the poles and the holes in TE-23003.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-23005	Cube Shelf Divider Beam	1
2	TE-23006	Spacer Plywood	2
3	TE-23007	Shark Fin	1
4	TE-23008	Cone Ramp Horizontal	2
5	TE-23009	Wide Cone Ramp Crossbeams	4
6	TE-23011	Cone Ramp Vertical	2
7	TE-23012	Cone Ramp Gusset	2
8	TE-23013	Cone Ramp Diagonal Beam	2
9	TE-23014	Wide Cone Ramp Diagonal Panel	1
10	TE-23016	Lower Pole	1
11	TE-23017	Upper Pole	1
12	CCF-RT-13-1	Pole Cap	2
13	tape_VISIONTARGET	tape_VISIONTARGET	4
14	hex_.25_20_2.5_partial	Steel Hex Head Screw, 1/4"-20 x 2-1/2" long, partially threaded	6
15	hex_.25_20_3.5_partial	Steel Hex Head Bolt, 1/4-20 x 3.5", partially threaded	2
16	hex_.25_20_4_partial	Steel Hex Head Bolt, 1/4-20 x 4", partially threaded	2
17	hex.25_20_5.5	Steel Hex Head Bolt, 1/4"-20 x 5.5", partially threaded	4
18	wing_.25_20	Steel Wing Nut, 1/4"-20, 31/64" Base Diameter	14
19	washer_flat_.25	Flat Washer for 1/4" Screw	28

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±1/16
ANGULAR: MACH ±1° BEND ±1°
TWO PLACE DECIMAL ±.13
THREE PLACE DECIMAL ±.125

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM

NAME

DATE

DRAWN

JO



12/16/2022

PROPRIETARY AND CONFIDENTIAL

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COMMENTS:

REMOVE ALL BURRS AND SHARP EDGES.



TITLE:

End Cone Ramp (Right)

SIZE

DWG. NO.

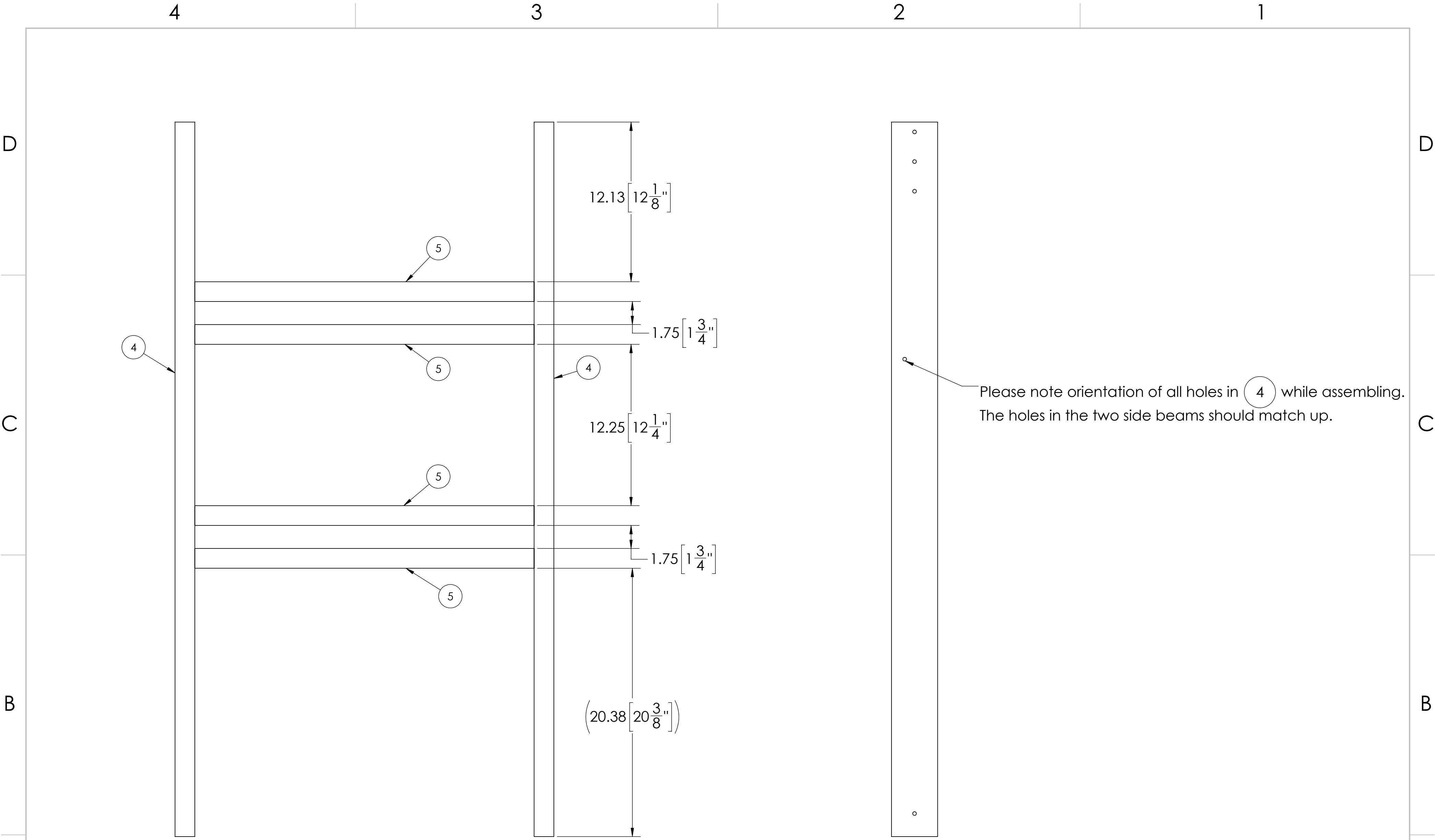
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TE-23002

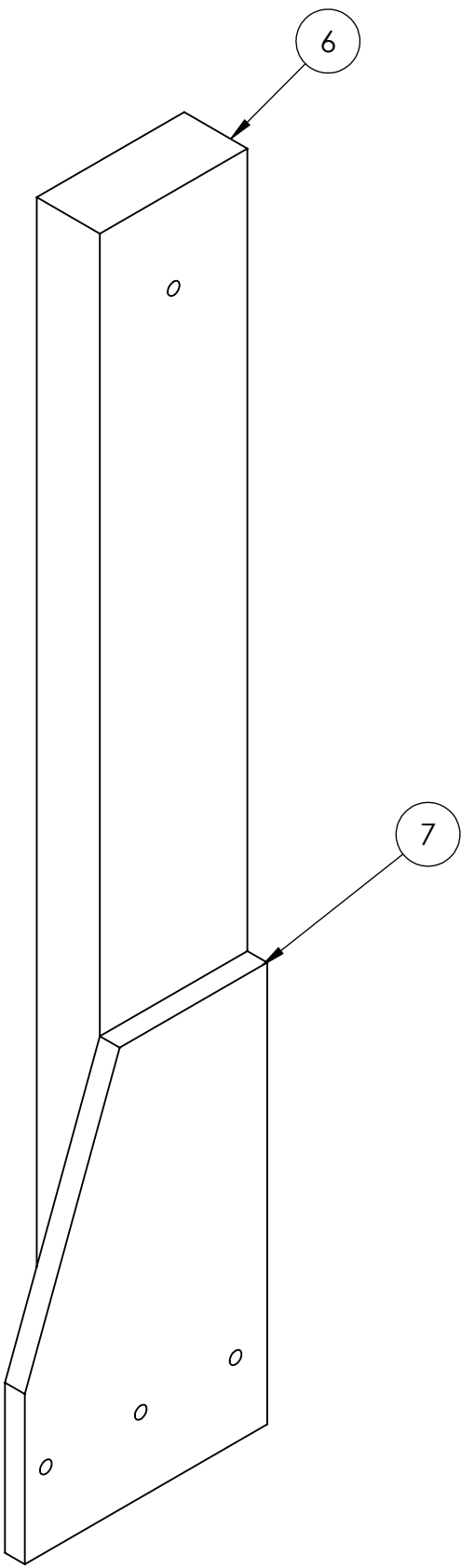
SCALE: 1:5

SHEET 1 OF 10

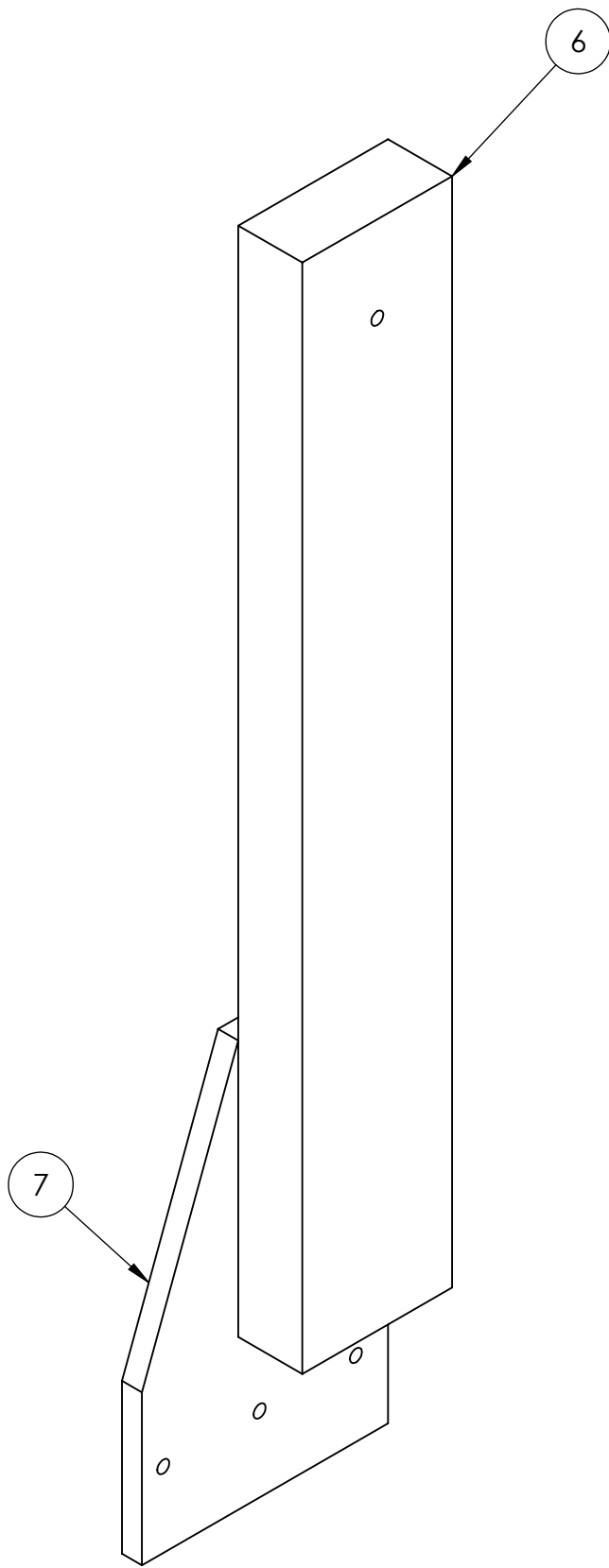


Step 1: Assemble floor frame of Cone Ramp with #8 wood screws as shown.

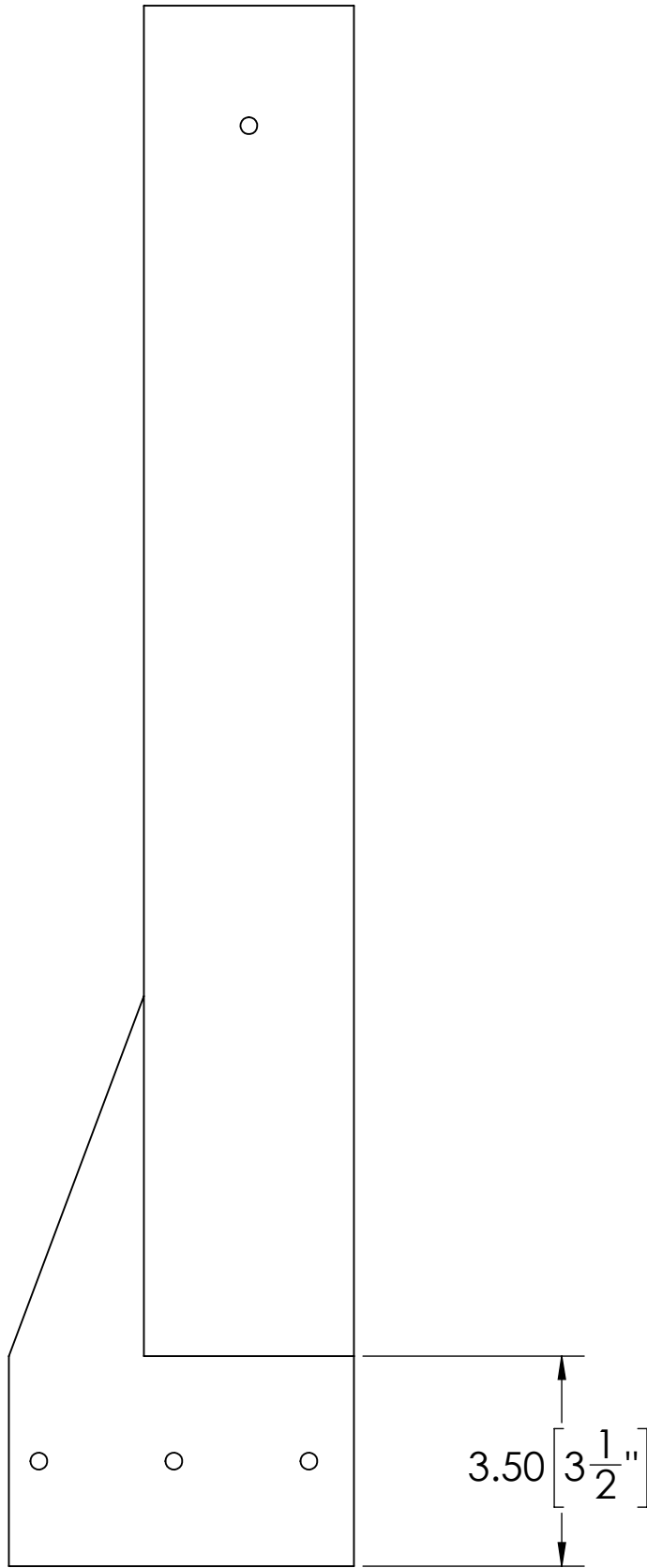
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/16/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.			TITLE: End Cone Ramp (Right)		
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.	REV
				C	TE-23002	
DO NOT SCALE DRAWING				SCALE: 1:5	SHEET 2 OF 10	





Left hand



Right hand



Step 2: Assemble 2x Cone Ramp Vertical assemblies using #8 wood screws as shown. Make a "left hand" and "right hand" version as shown.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$ MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>End Cone Ramp (Right)</h1></div>		
	DRAWN	JO	12/16/2022			
	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 PROHIBITED.			SIZE	DWG. NO.	REV
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23002	
SCALE: 1:3		SHEET 3 OF 10				

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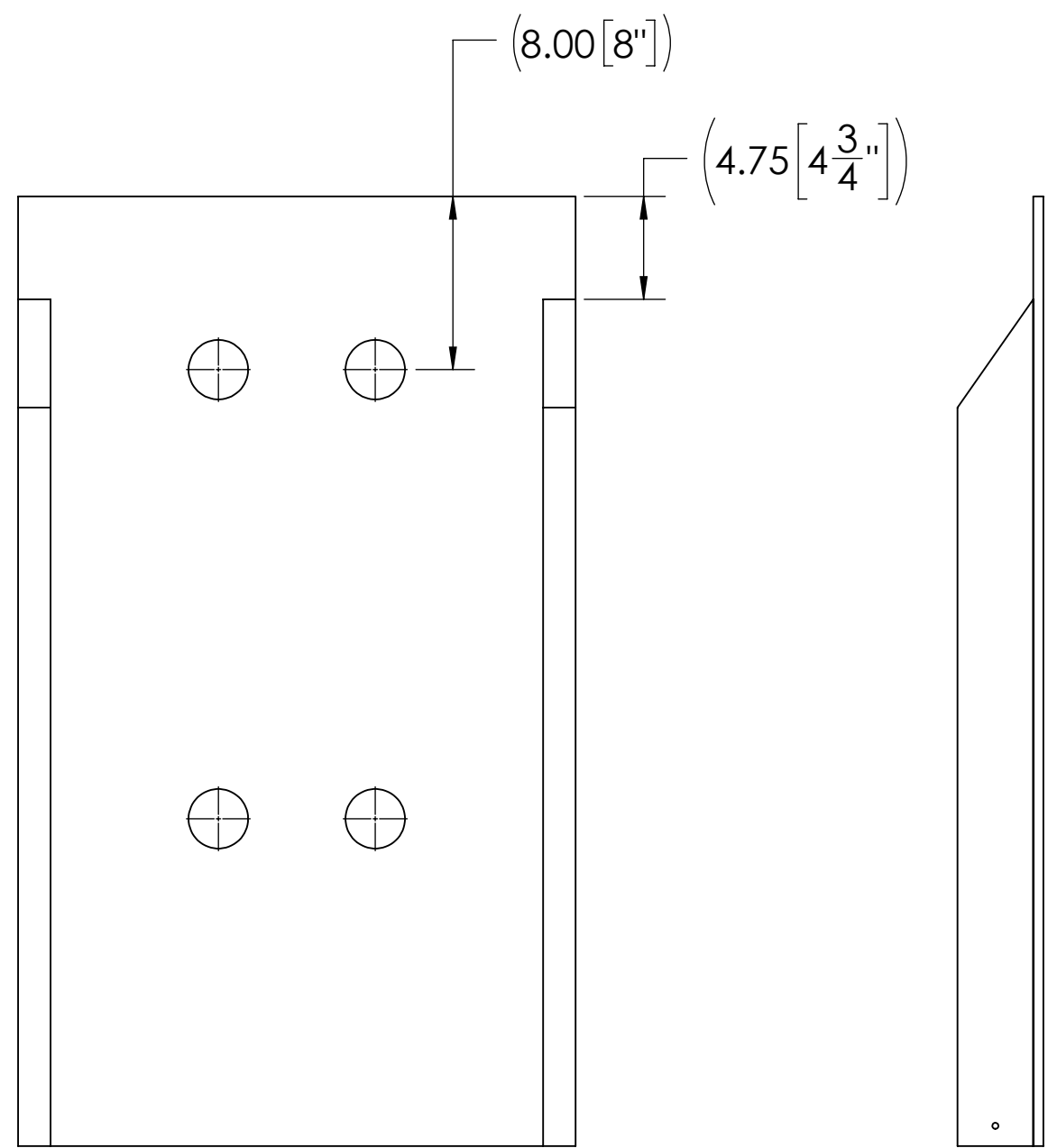
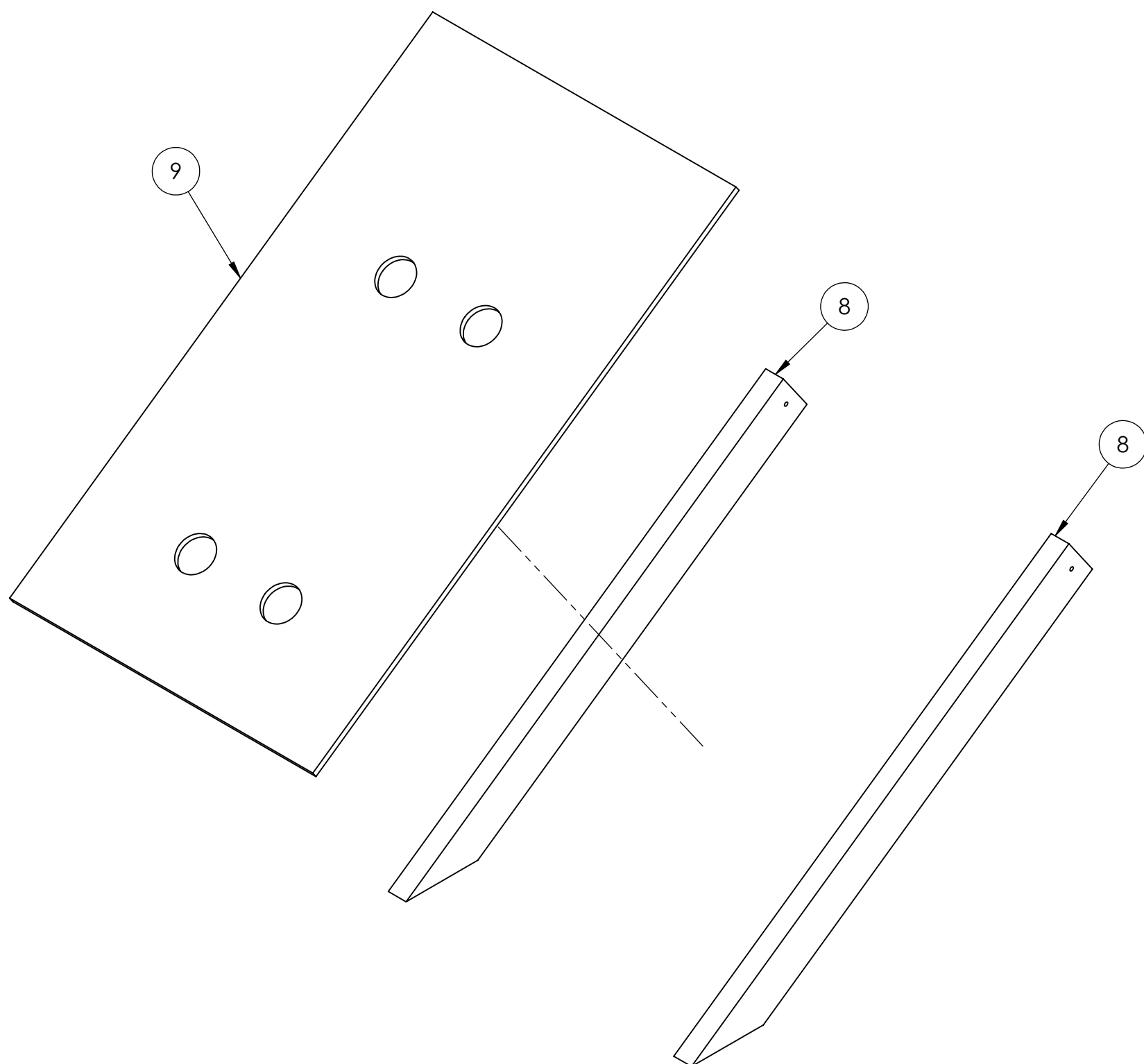
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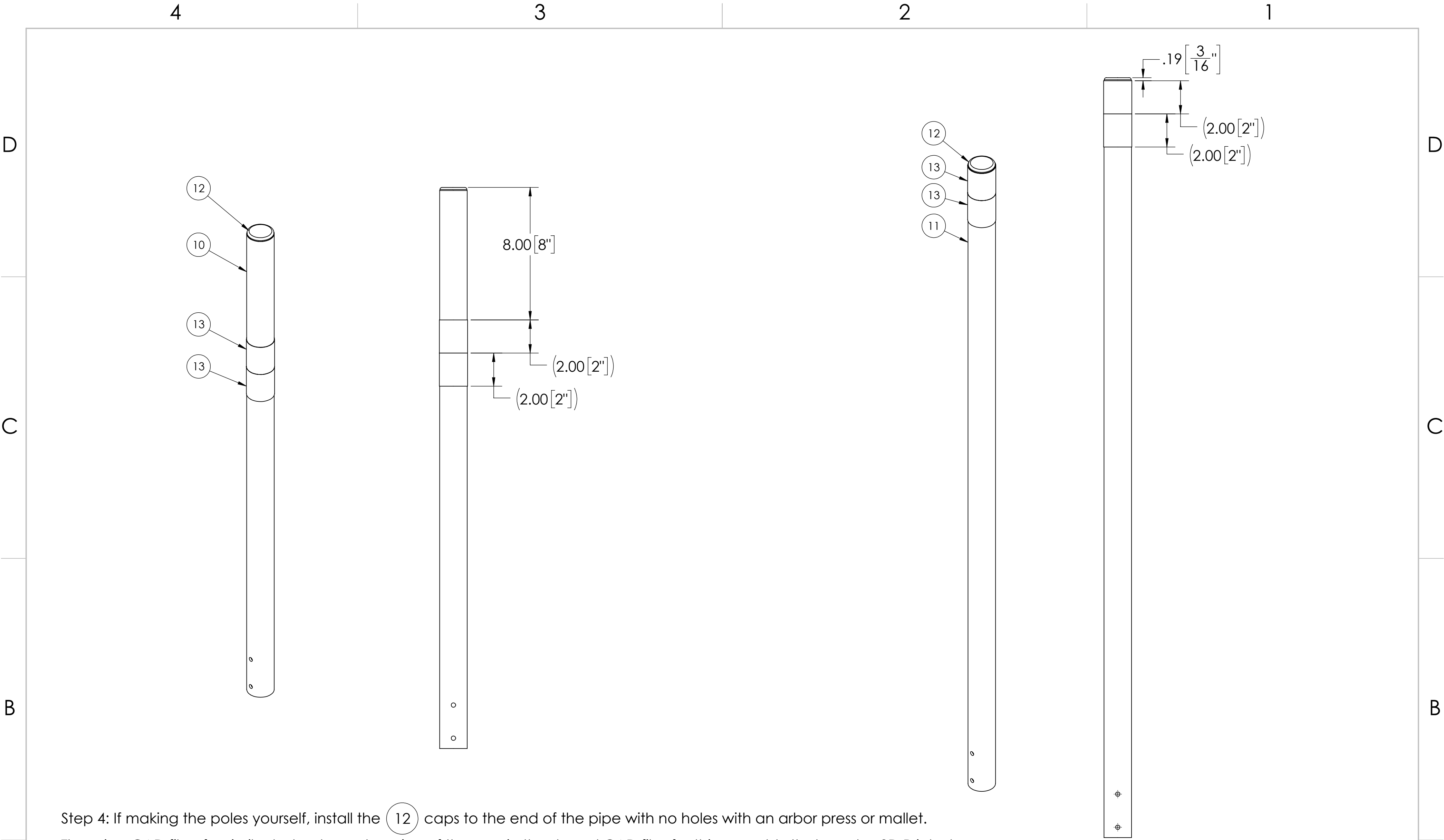
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Step 3: Assemble Cone Ramp Diagonal Assembly with #8 wood screws as shown.
Note orientation of holes while assembling.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$ MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	  TITLE: End Cone Ramp (Right)	
	DRAWN	JO	12/16/2022	SIZE	DWG. NO.
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23002
SCALE: 1:8		SHEET 4 OF 10			

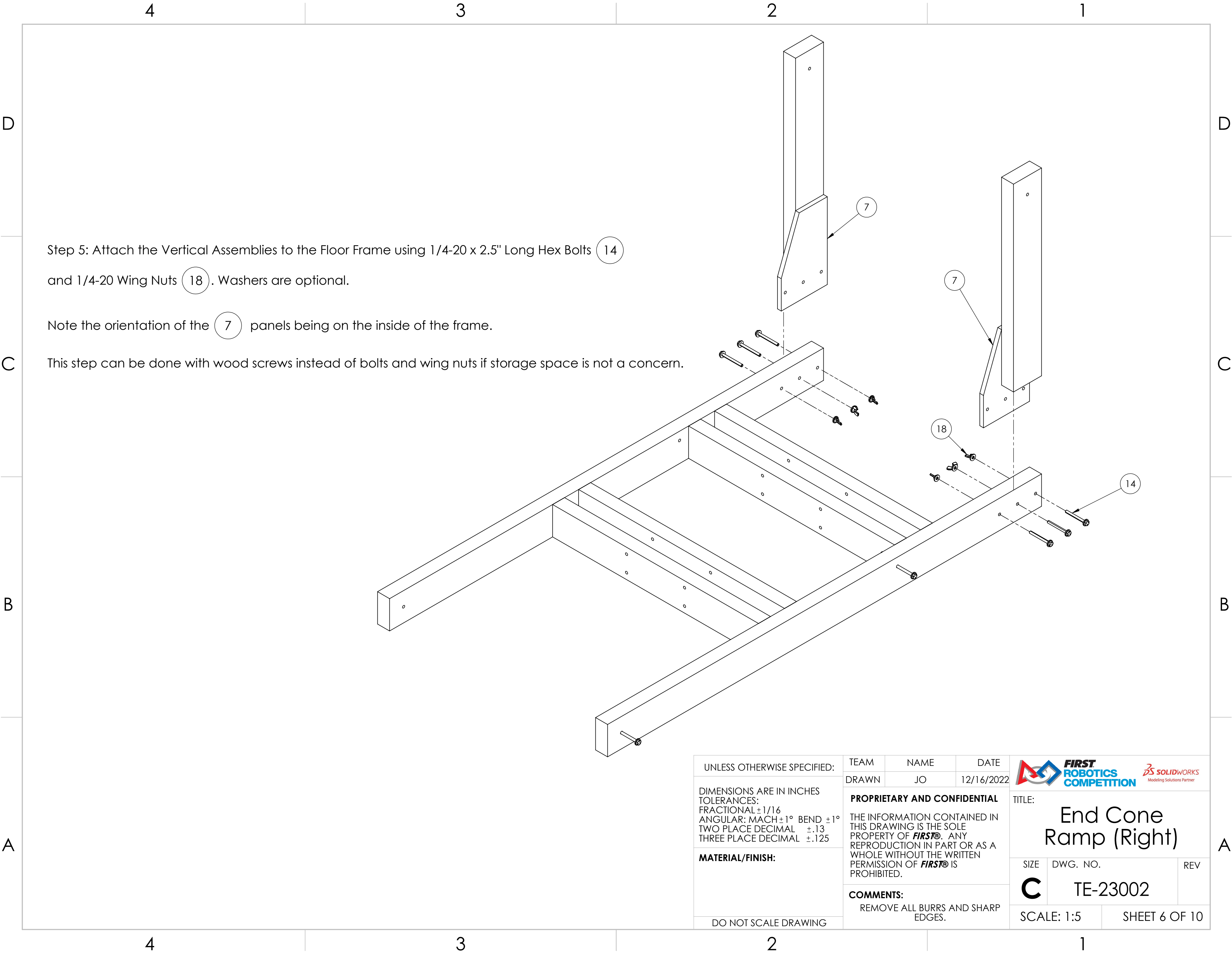


Step 4: If making the poles yourself, install the (12) caps to the end of the pipe with no holes with an arbor press or mallet.
There is a CAD file of a similar but not exact version of the cap in the shared CAD files for this assembly that can be 3D Printed.

Apply 2 pieces of (13) vision tape per pole as shown.

These poles with caps installed can be purchased from AndyMark.
These do not include the drilled holes or applied vision tape.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	12/16/2022		
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			TITLE: End Cone Ramp (Right)	
SIZE		DWG. NO.		REV	
C		TE-23002			
SCALE: 1:4			SHEET 5 OF 10		

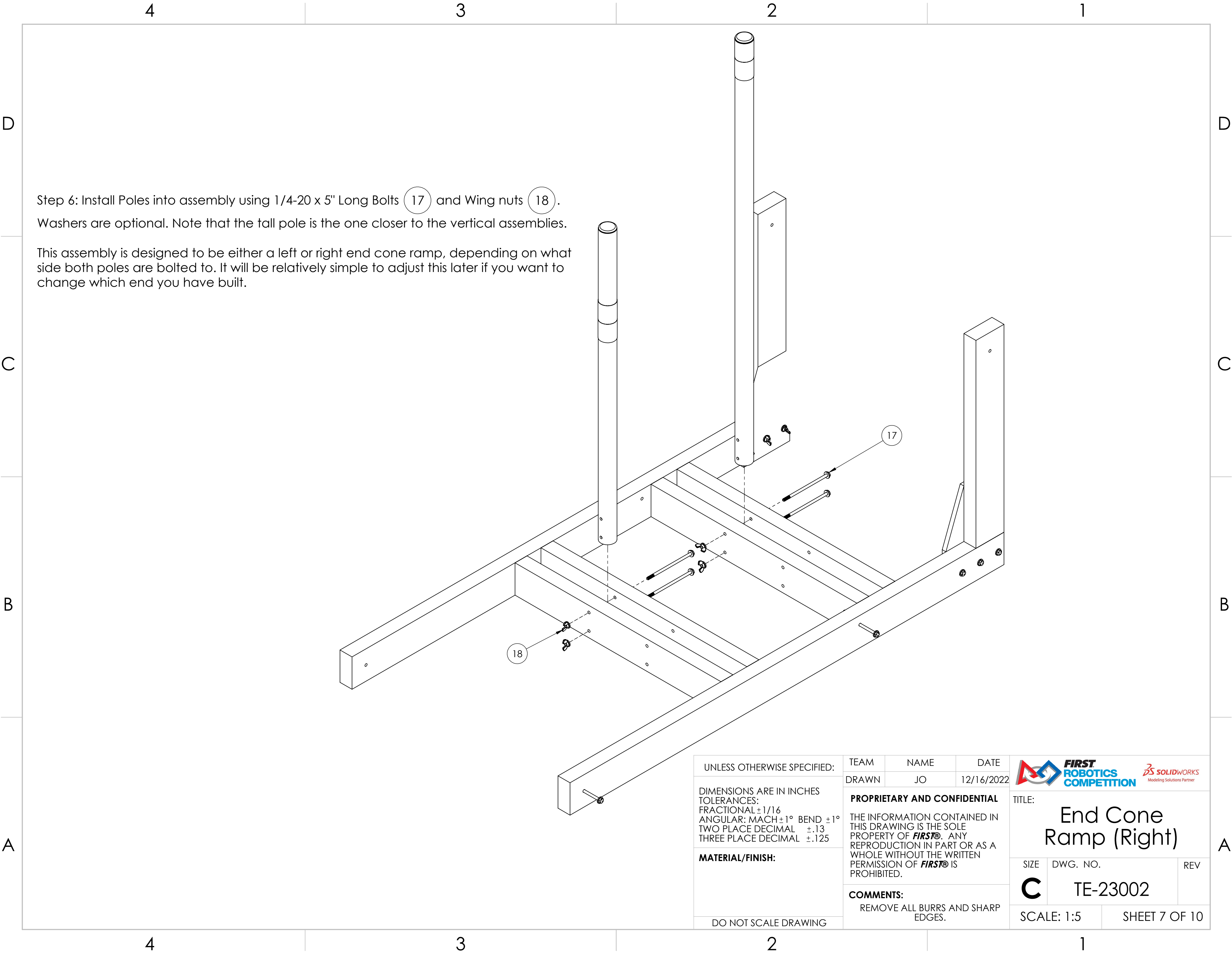


Step 5: Attach the Vertical Assemblies to the Floor Frame using 1/4-20 x 2.5" Long Hex Bolts (14) and 1/4-20 Wing Nuts (18). Washers are optional.

Note the orientation of the (7) panels being on the inside of the frame.

This step can be done with wood screws instead of bolts and wing nuts if storage space is not a concern.

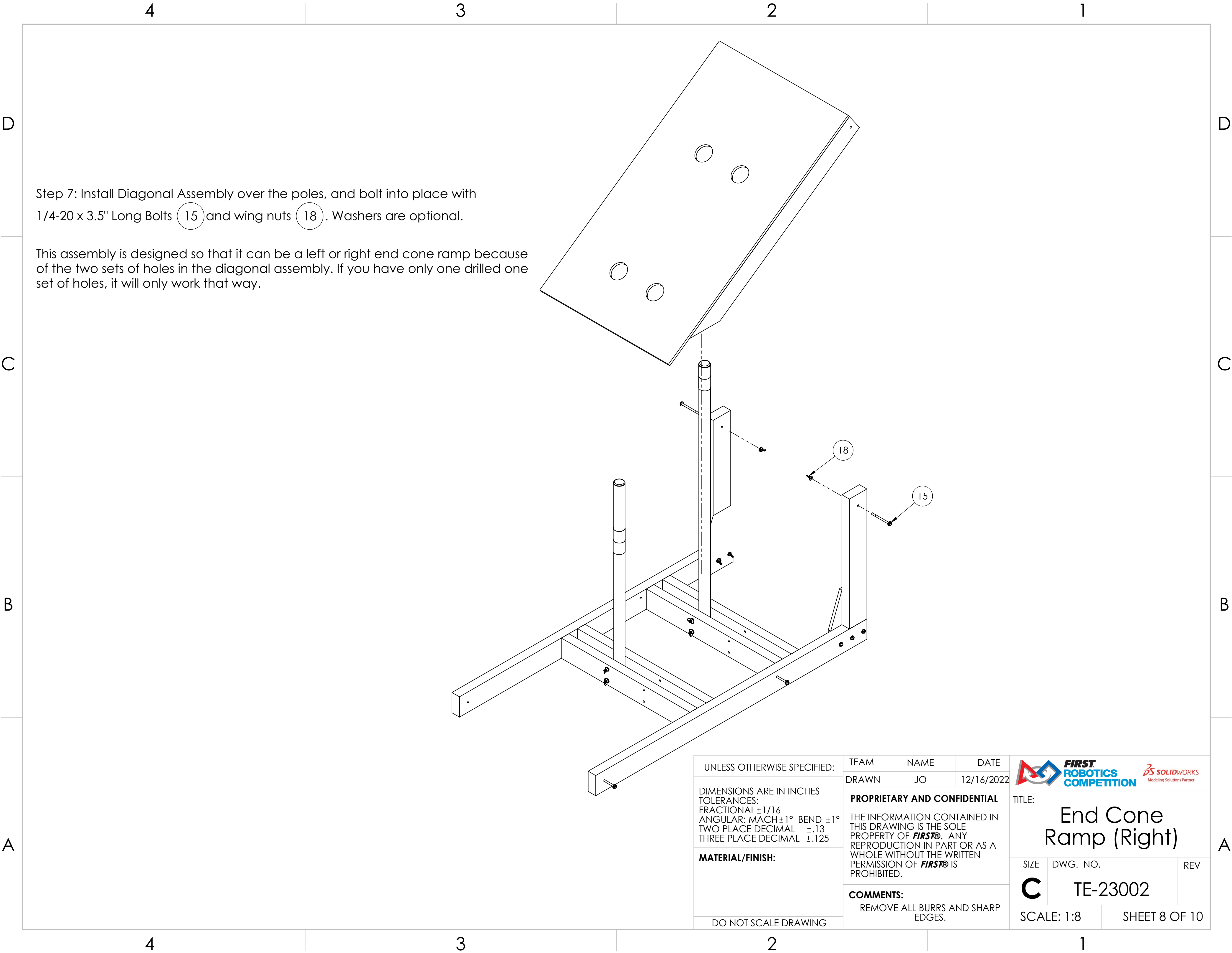
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: End Cone Ramp (Right)</div>		
	DRAWN	JO	12/16/2022			
	PROPRIETARY 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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.				SIZE	DWG. NO.
				C	TE-23002	
				SCALE: 1:5		SHEET 6 OF 10



Step 6: Install Poles into assembly using 1/4-20 x 5" Long Bolts (17) and Wing nuts (18). Washers are optional. Note that the tall pole is the one closer to the vertical assemblies.

This assembly is designed to be either a left or right end cone ramp, depending on what side both poles are bolted to. It will be relatively simple to adjust this later if you want to change which end you have built.

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MATERIAL/FINISH:		PROPRIETARY AND CONFIDENTIAL		
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DO NOT SCALE DRAWING		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
		TITLE: End Cone Ramp (Right)		
		SIZE C	DWG. NO. TE-23002	REV
		SCALE: 1:5 SHEET 7 OF 10		

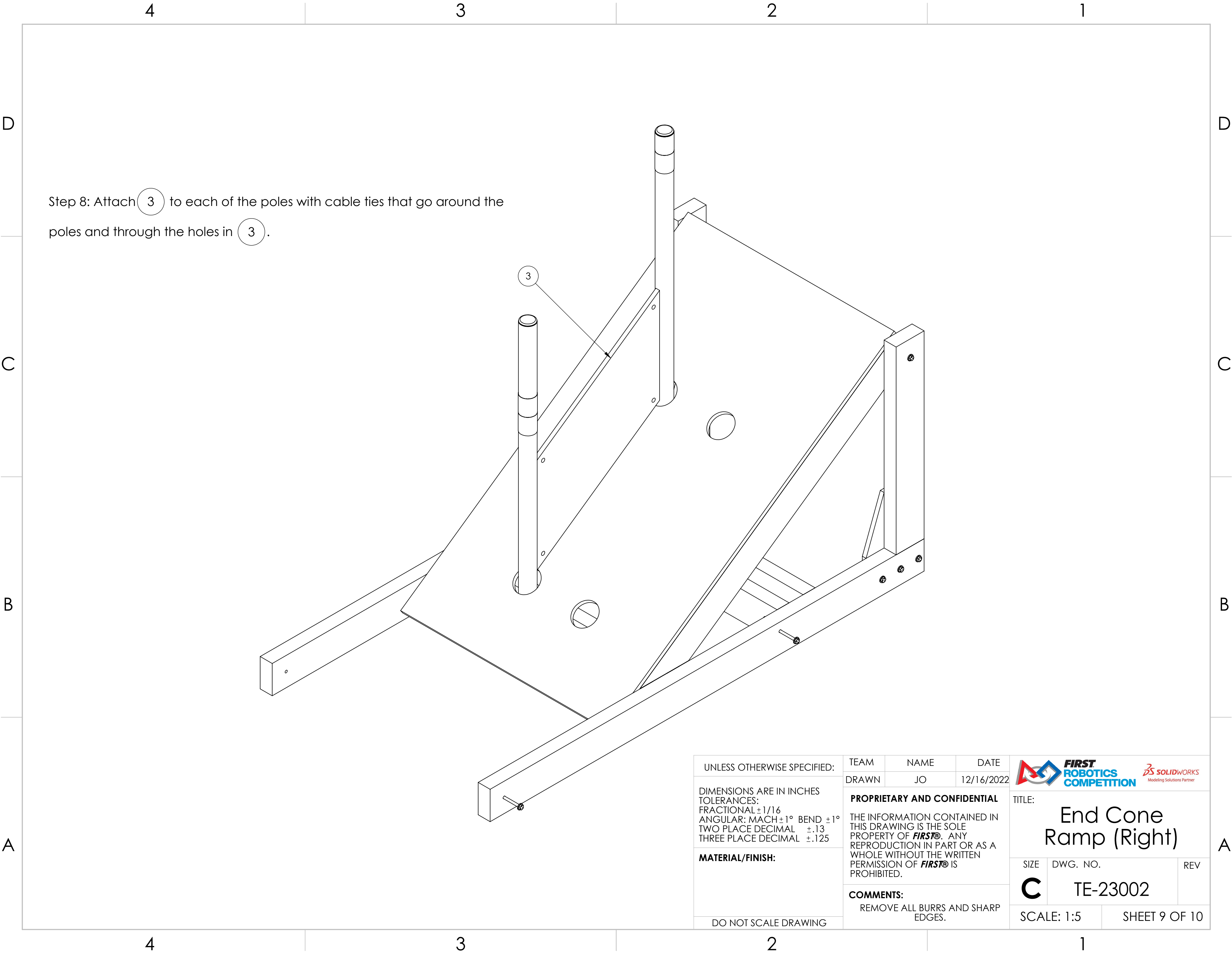


Step 7: Install Diagonal Assembly over the poles, and bolt into place with 1/4-20 x 3.5" Long Bolts (15) and wing nuts (18). Washers are optional.

This assembly is designed so that it can be a left or right end cone ramp because of the two sets of holes in the diagonal assembly. If you have only one drilled one set of holes, it will only work that way.

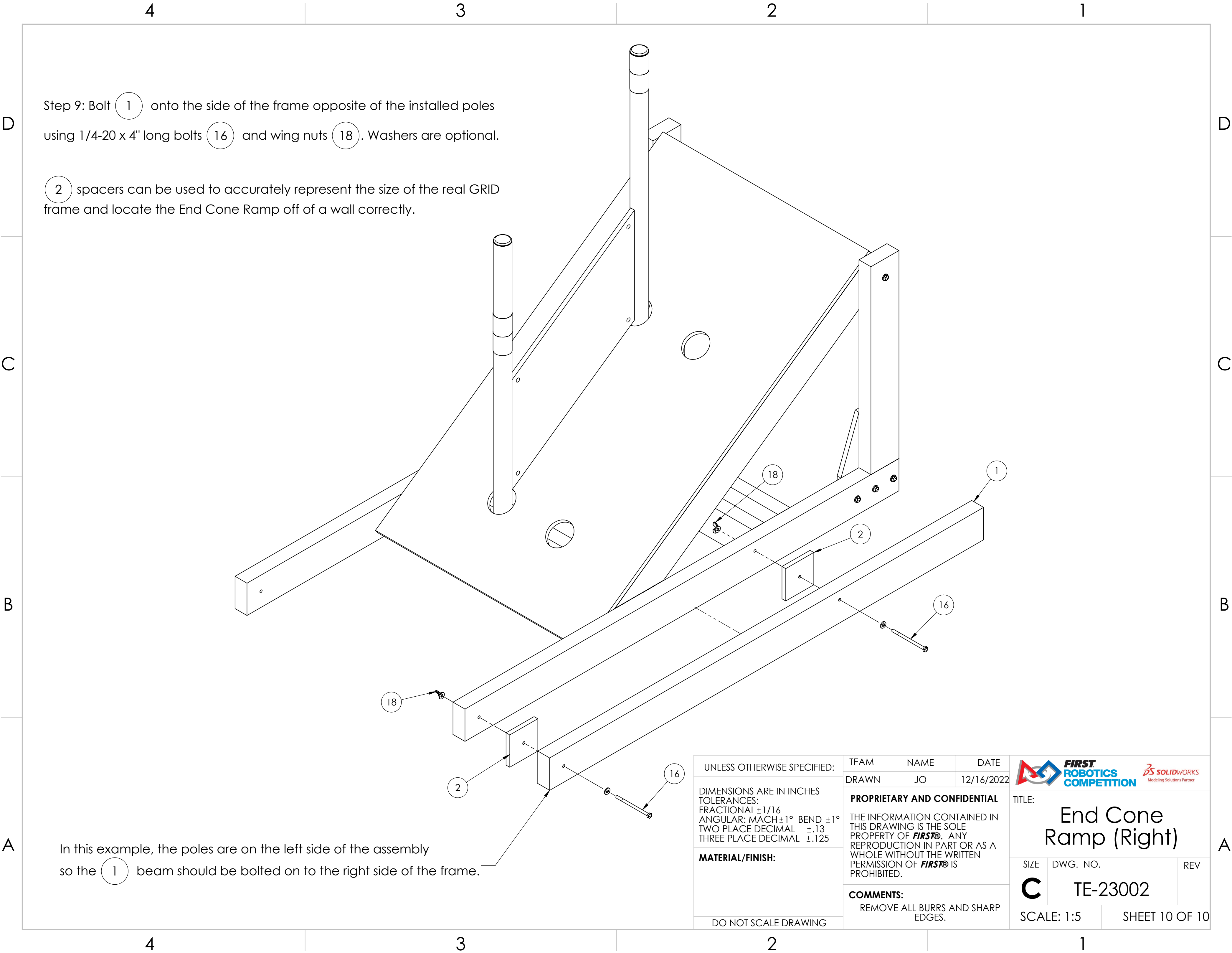
UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
		DRAWN	JO	12/16/2022
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.		
MATERIAL/FINISH:		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING				
		TITLE: End Cone Ramp (Right)		
		SIZE C	DWG. NO. TE-23002	REV
		SCALE: 1:8		SHEET 8 OF 10





Step 8: Attach (3) to each of the poles with cable ties that go around the poles and through the holes in (3).



UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		DRAWN	JO	12/16/2022
MATERIAL/FINISH:		PROPRIETARY AND CONFIDENTIAL		
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		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING				
		TITLE: End Cone Ramp (Right)		
		SIZE C	DWG. NO. TE-23002	REV
		SCALE: 1:5		SHEET 9 OF 10

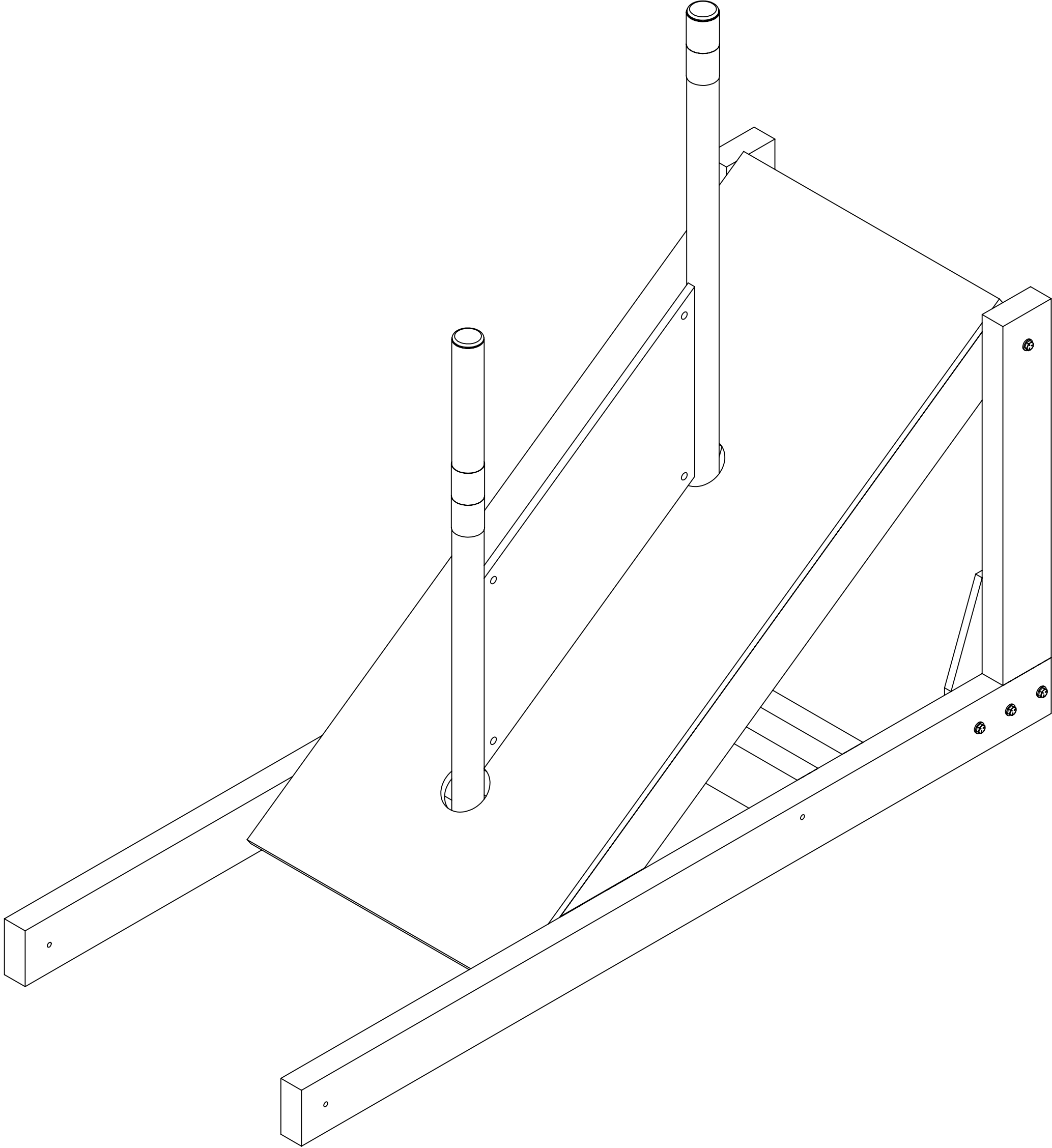


Step 9: Bolt (1) onto the side of the frame opposite of the installed poles using 1/4-20 x 4" long bolts (16) and wing nuts (18). Washers are optional.

(2) spacers can be used to accurately represent the size of the real GRID frame and locate the End Cone Ramp off of a wall correctly.

In this example, the poles are on the left side of the assembly so the (1) beam should be bolted on to the right side of the frame.

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div>FIRST ROBOTICS COMPETITION</div><div><div>SOLIDWORKS Modeling Solutions Partner</div></div></div>			
	DRAWN	JO	12/16/2022				
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			TITLE: End Cone Ramp (Right)			
	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.						
	COMMENTS:			SIZE		DWG. NO.	REV
MATERIAL/FINISH:				C	TE-23002		
DO NOT SCALE DRAWING	REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:5		SHEET 10 OF 10	



NOTE: All holes shown are for bolt/wing nut connections that are included to make it easier to store this assembly. If storage of this assembly is not a concern, wood screws could be used instead of bolts and wing nuts, and all drilled holes can be skipped except for the bolts that hold the poles and the holes in TE-23003.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-23007	Shark Fin	1
2	TE-23008	Cone Ramp Horizontal	2
3	TE-23010	Cone Ramp Crossbeams	4
4	TE-23011	Cone Ramp Vertical	2
5	TE-23012	Cone Ramp Gusset	2
6	TE-23013	Cone Ramp Diagonal Beam	2
7	TE-23015	Cone Ramp Diagonal Panel	1
8	TE-23016	Lower Pole	1
9	TE-23017	Upper Pole	1
10	CCF-RT-13-1	Pole Cap	2
11	tape_VISIONTARGET	tape_VISIONTARGET	4
12	hex_.25_20_2.5_partial	Steel Hex Head Screw, 1/4"-20 x 2-1/2" long, partially threaded	6
13	hex_.25_20_3.5_partial	Steel Hex Head Bolt, 1/4"-20 x 3.5", partially threaded	2
14	hex.25_20_5.5	Steel Hex Head Bolt, 1/4"-20 x 5.5", partially threaded	4
15	wing_.25_20	Steel Wing Nut, 1/4"-20, 31/64" Base Diameter	12
16	washer_flat_.25	Flat Washer for 1/4" Screw	24

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .13$
THREE PLACE DECIMAL $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM

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NAME

JO

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COMMENTS:

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TITLE:

Middle Cone Ramp

SIZE

C

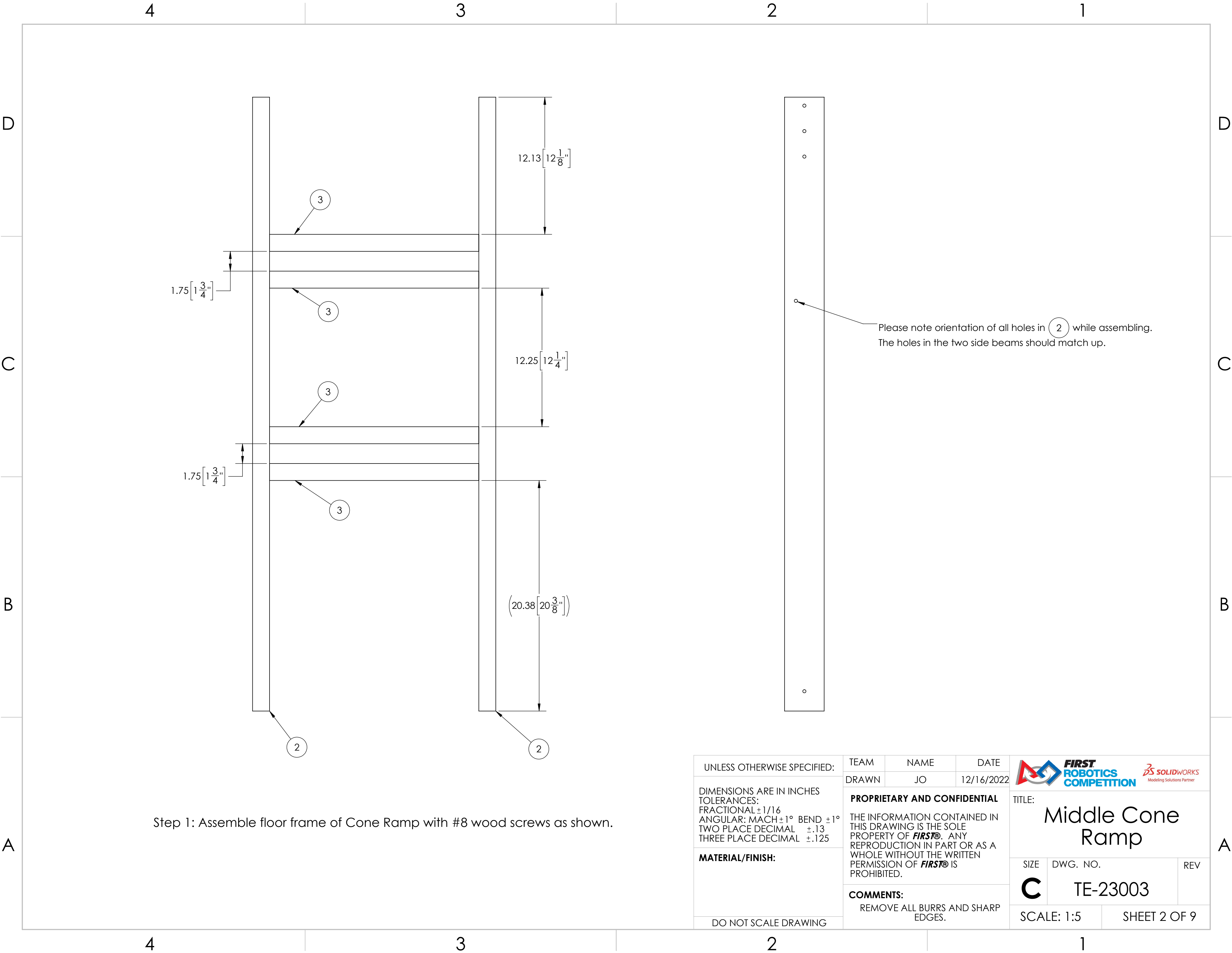
DWG. NO.

TE-23003

REV

SCALE: 1:5



SHEET 1 OF 9



Step 1: Assemble floor frame of Cone Ramp with #8 wood screws as shown.



Please note orientation of all holes in (2) while assembling.
The holes in the two side beams should match up.

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	DRAWN	JO	12/16/2022			
	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 PROHIBITED.			SIZE	DWG. NO.	REV
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23003	
		SCALE: 1:5		SHEET 2 OF 9		

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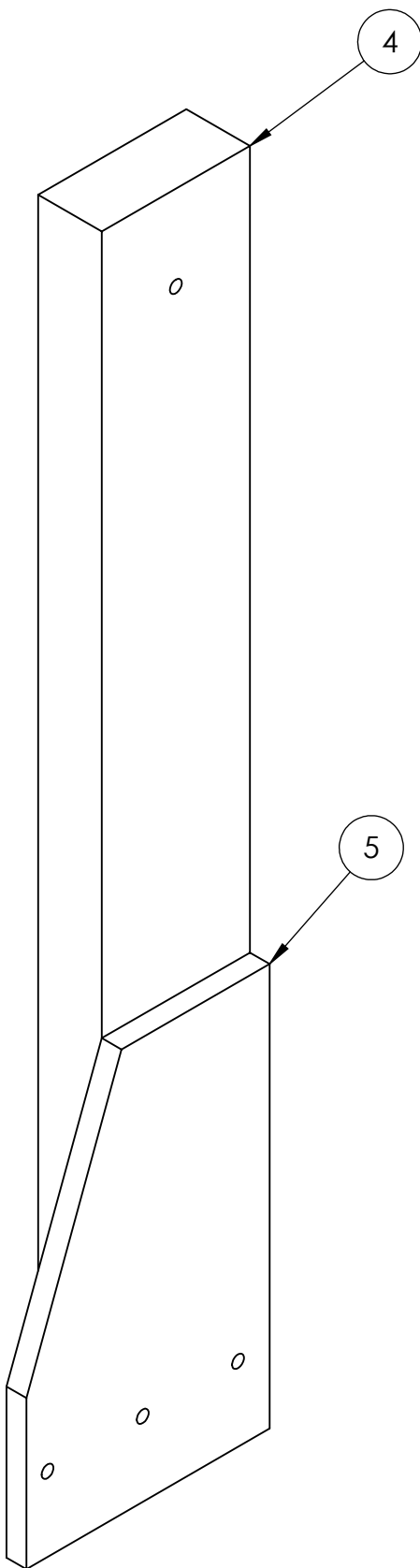
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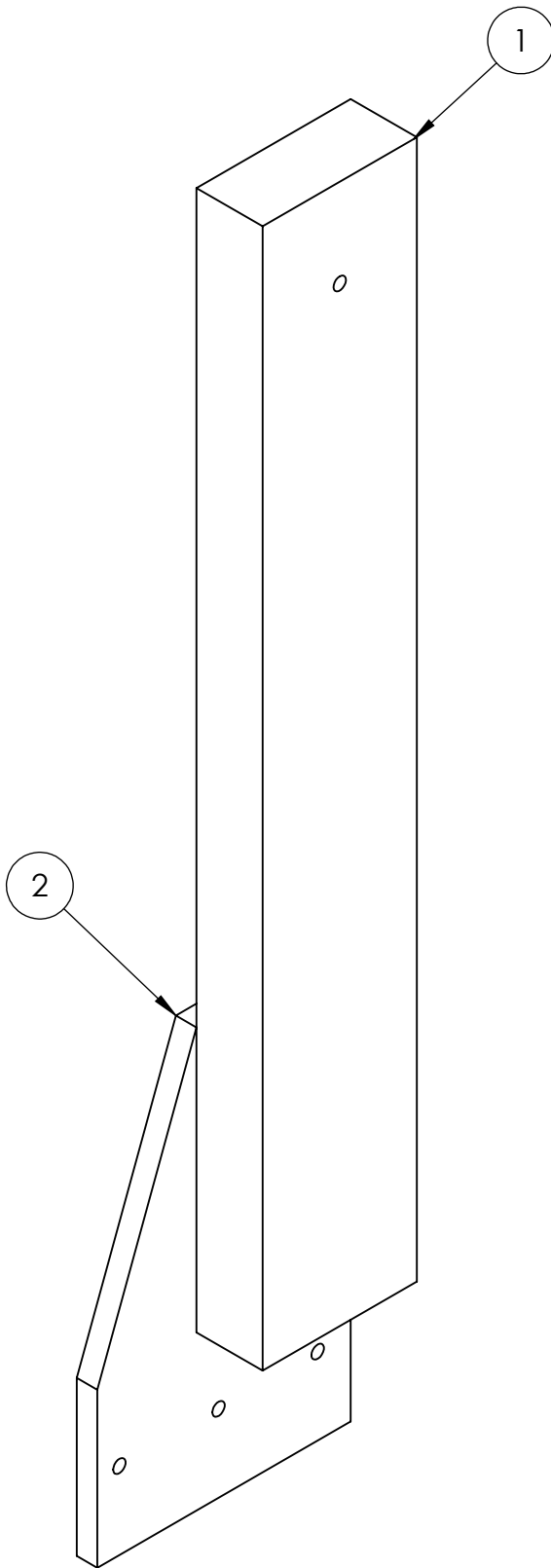
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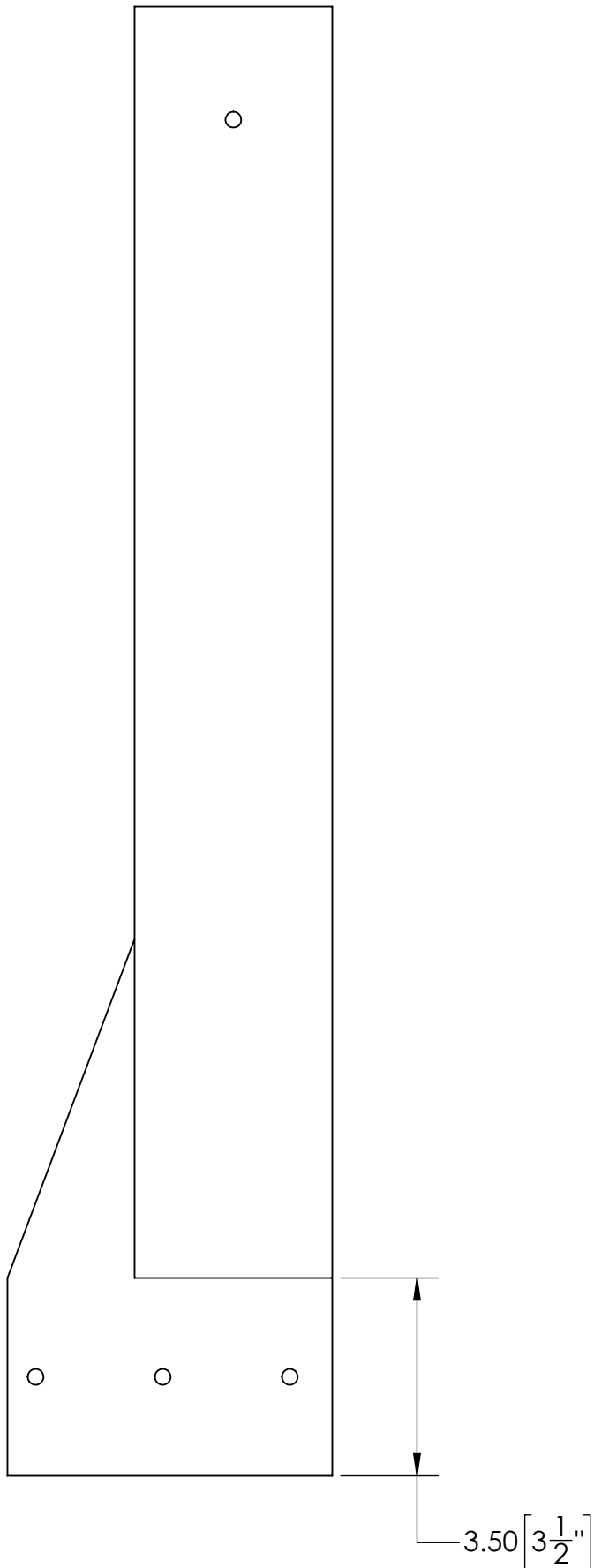
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Left hand

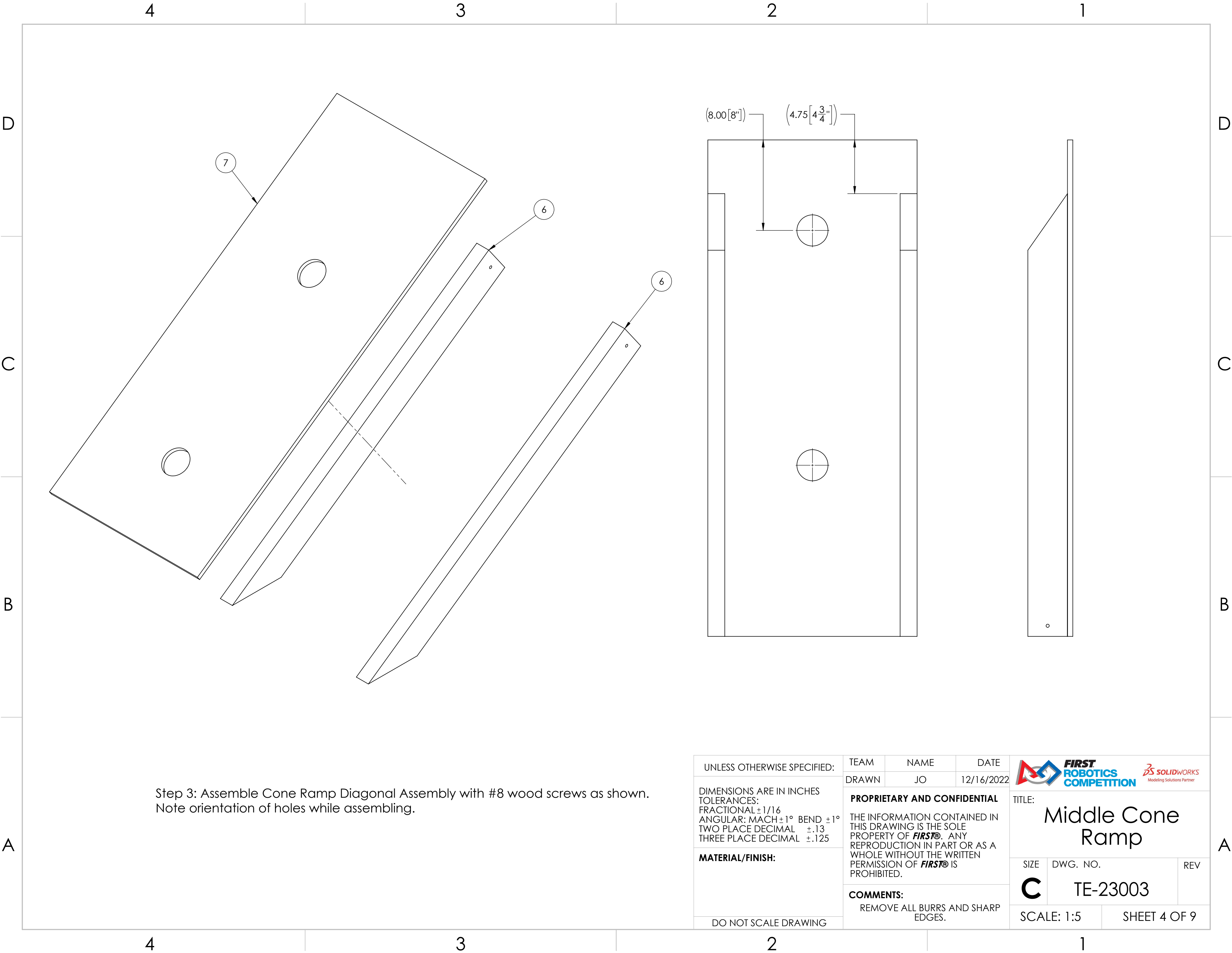


Right hand





Step 2: Assemble 2x Cone Ramp Vertical assemblies using #8 wood screws as shown. Make a "left hand" and "right hand" version as shown.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>	
	DRAWN	JO	12/16/2022		
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SIZE		DWG. NO.		REV	
C		TE-23003			
SCALE: 1:3			SHEET 3 OF 9		



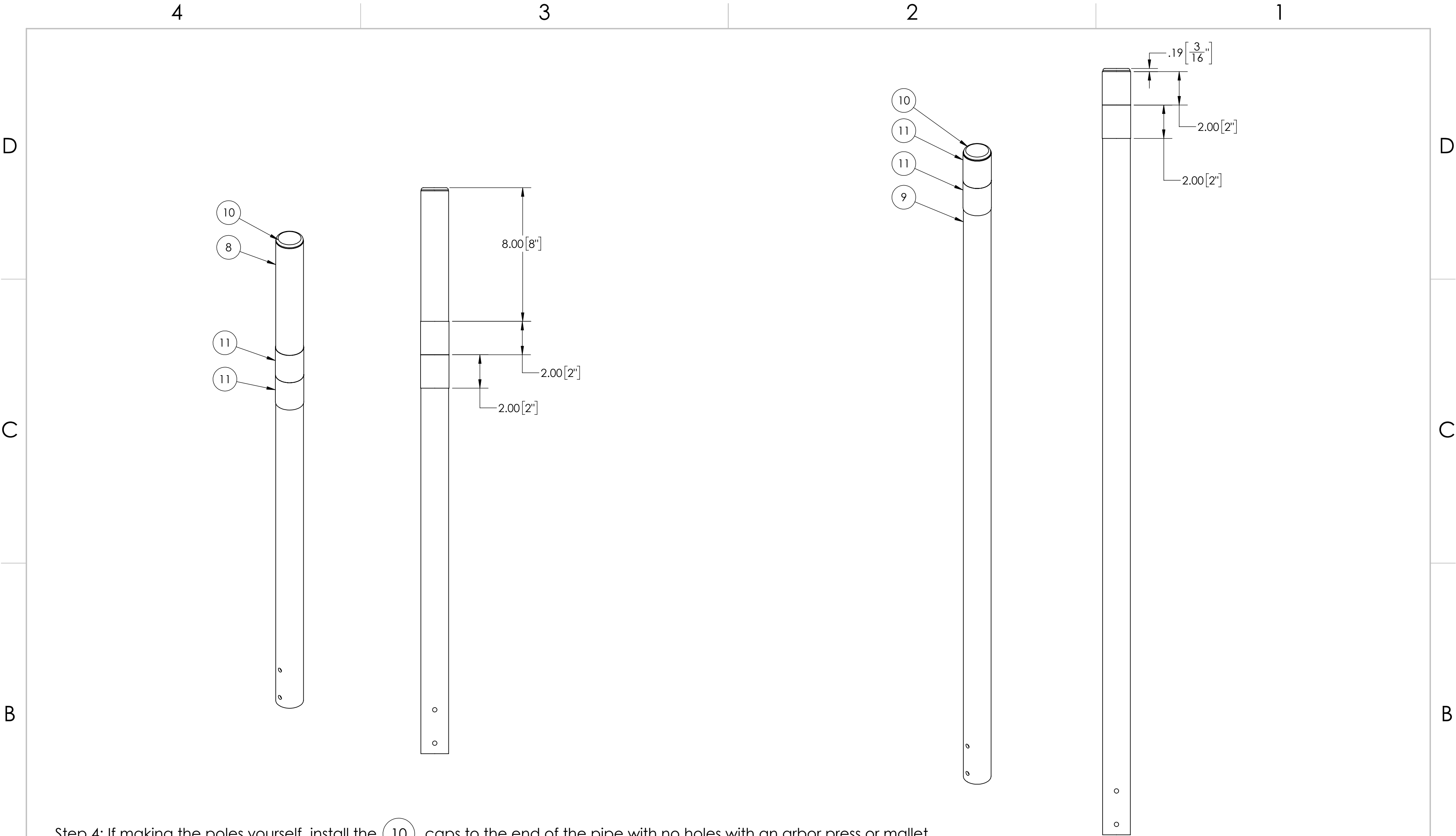
Step 3: Assemble Cone Ramp Diagonal Assembly with #8 wood screws as shown.
Note orientation of holes while assembling.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$ MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	12/16/2022		
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	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.				SIZE
SCALE: 1:5		SHEET 4 OF 9		REV	

Middle Cone Ramp

DWG. NO.



TE-23003

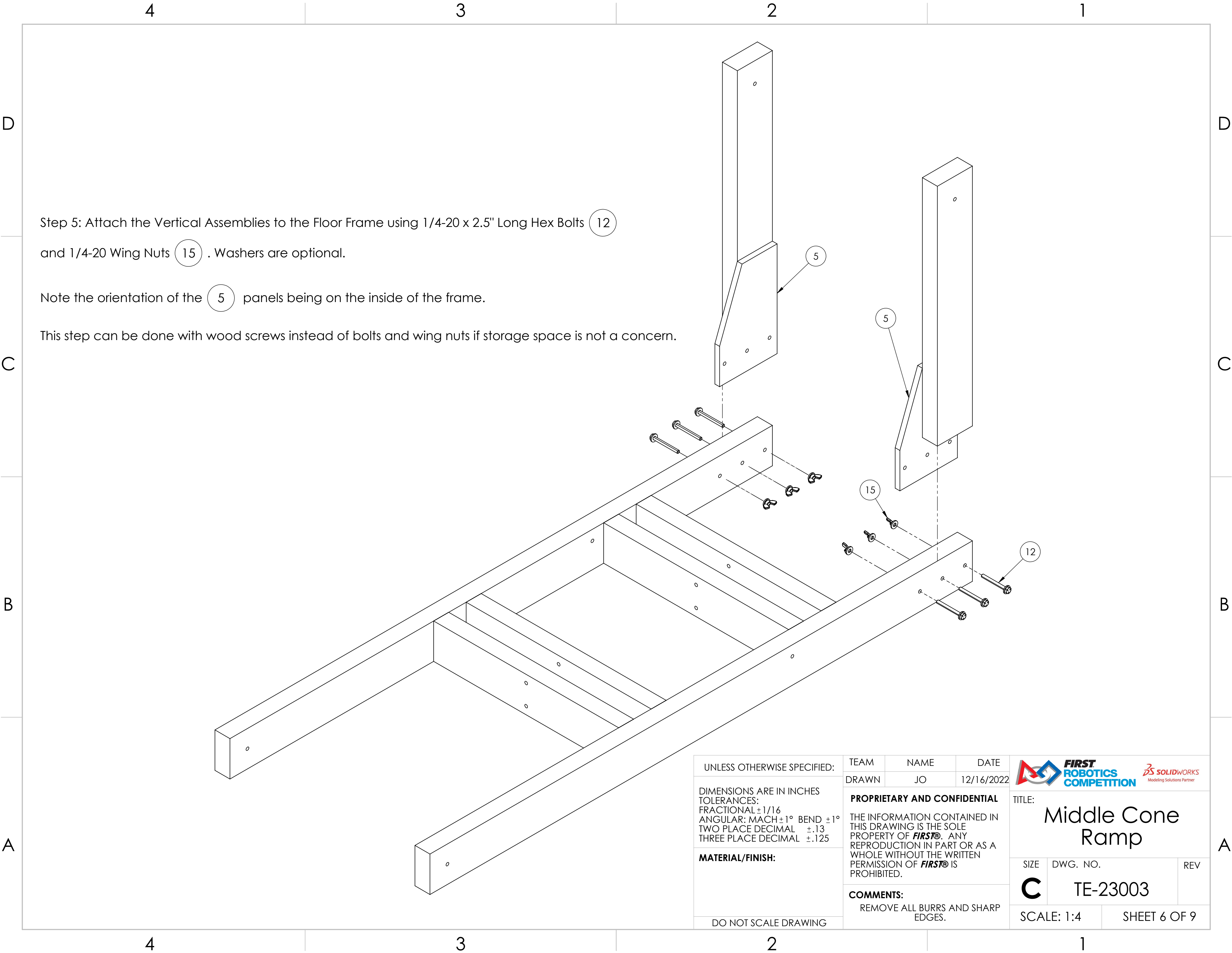


Step 4: If making the poles yourself, install the (10) caps to the end of the pipe with no holes with an arbor press or mallet.
There is a CAD file of a similar but not exact version of the cap in the shared CAD files for this assembly that can be 3D Printed.

Apply 2 pieces of (11) vision tape per pole as shown.

These poles with caps installed can be purchased from AndyMark.
These do not include the drilled holes or applied vision tape.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	12/16/2022		
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			TITLE: Middle Cone Ramp	
			SIZE	DWG. NO.	REV
			C	TE-23003	
			SCALE: 1:4		SHEET 5 OF 9

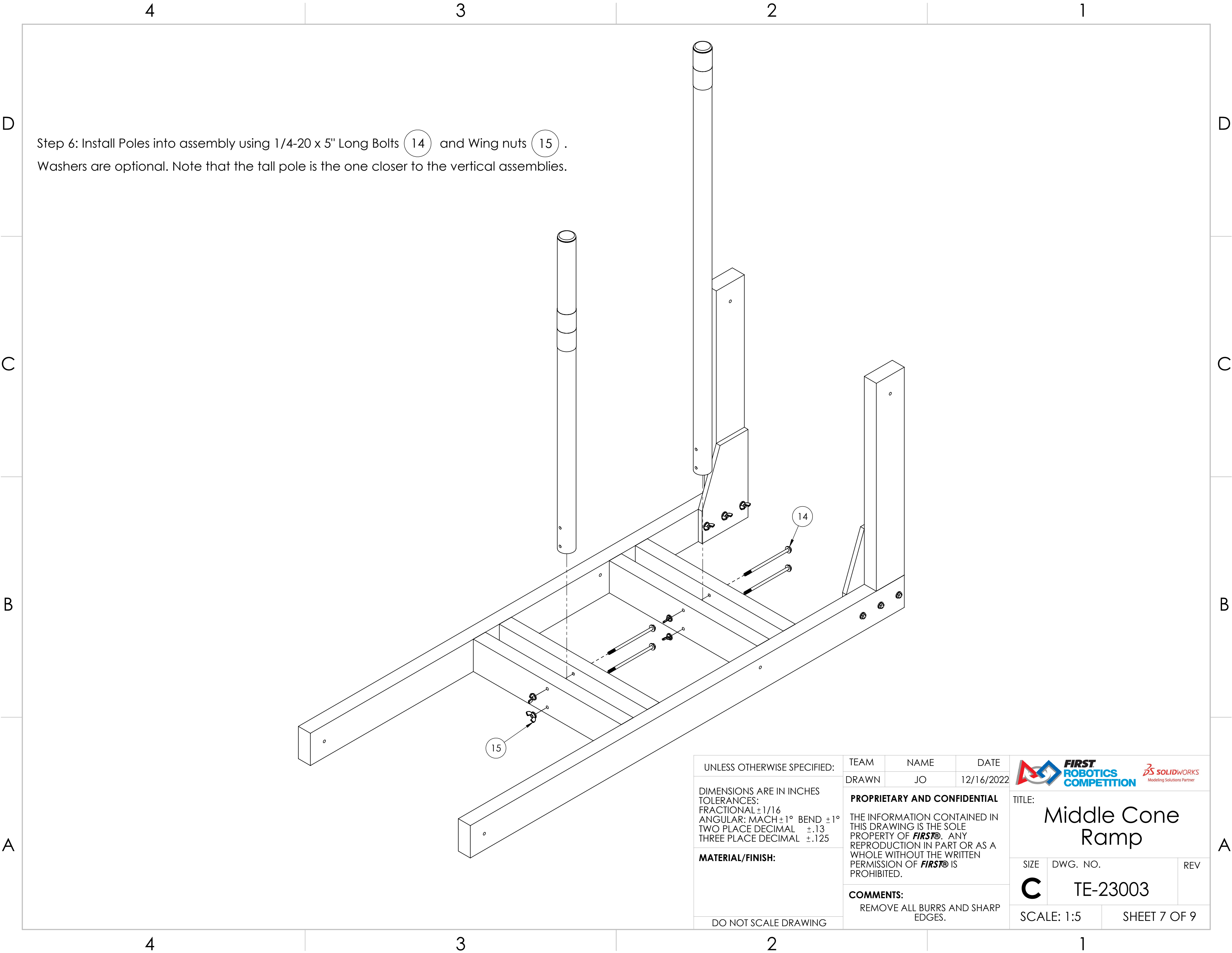


Step 5: Attach the Vertical Assemblies to the Floor Frame using 1/4-20 x 2.5" Long Hex Bolts (12) and 1/4-20 Wing Nuts (15) . Washers are optional.

Note the orientation of the (5) panels being on the inside of the frame.

This step can be done with wood screws instead of bolts and wing nuts if storage space is not a concern.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>	
	DRAWN	JO	12/16/2022		
	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.			Middle Cone Ramp	
COMMENTS:		REMOVE ALL BURRS AND SHARP EDGES.		SIZE	DWG. NO.
				C	TE-23003
				REV	
				SCALE: 1:4	
				SHEET 6 OF 9	



Step 6: Install Poles into assembly using 1/4-20 x 5" Long Bolts (14) and Wing nuts (15). Washers are optional. Note that the tall pole is the one closer to the vertical assemblies.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .13$
THREE PLACE DECIMAL $\pm .125$

MATERIAL/FINISH:

DO NOT SCALE DRAWING

TEAM	NAME	DATE
DRAWN	JO	12/16/2022

PROPRIETARY AND CONFIDENTIAL

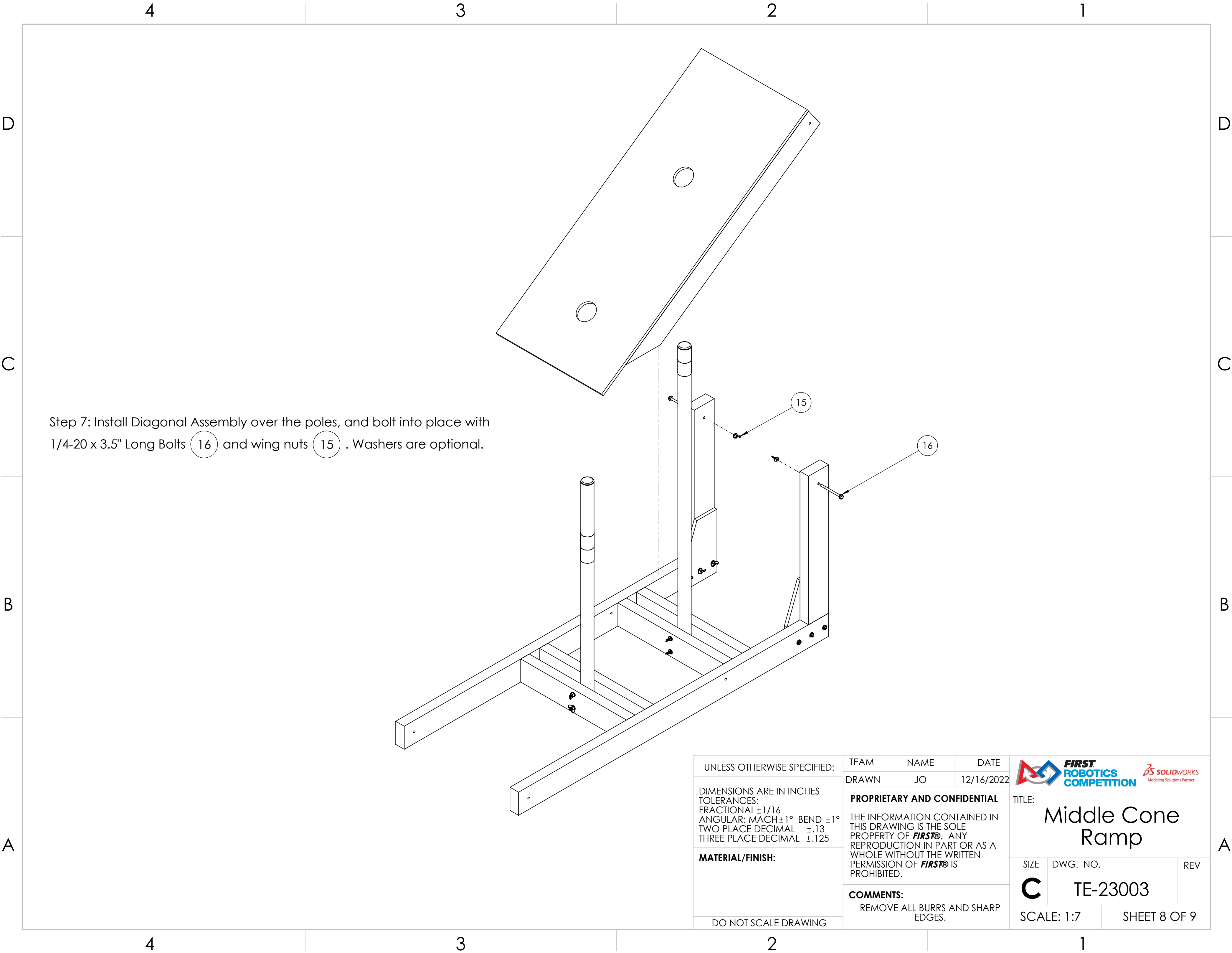
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **FIRST**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **FIRST** IS PROHIBITED.

COMMENTS:
REMOVE ALL BURRS AND SHARP EDGES.





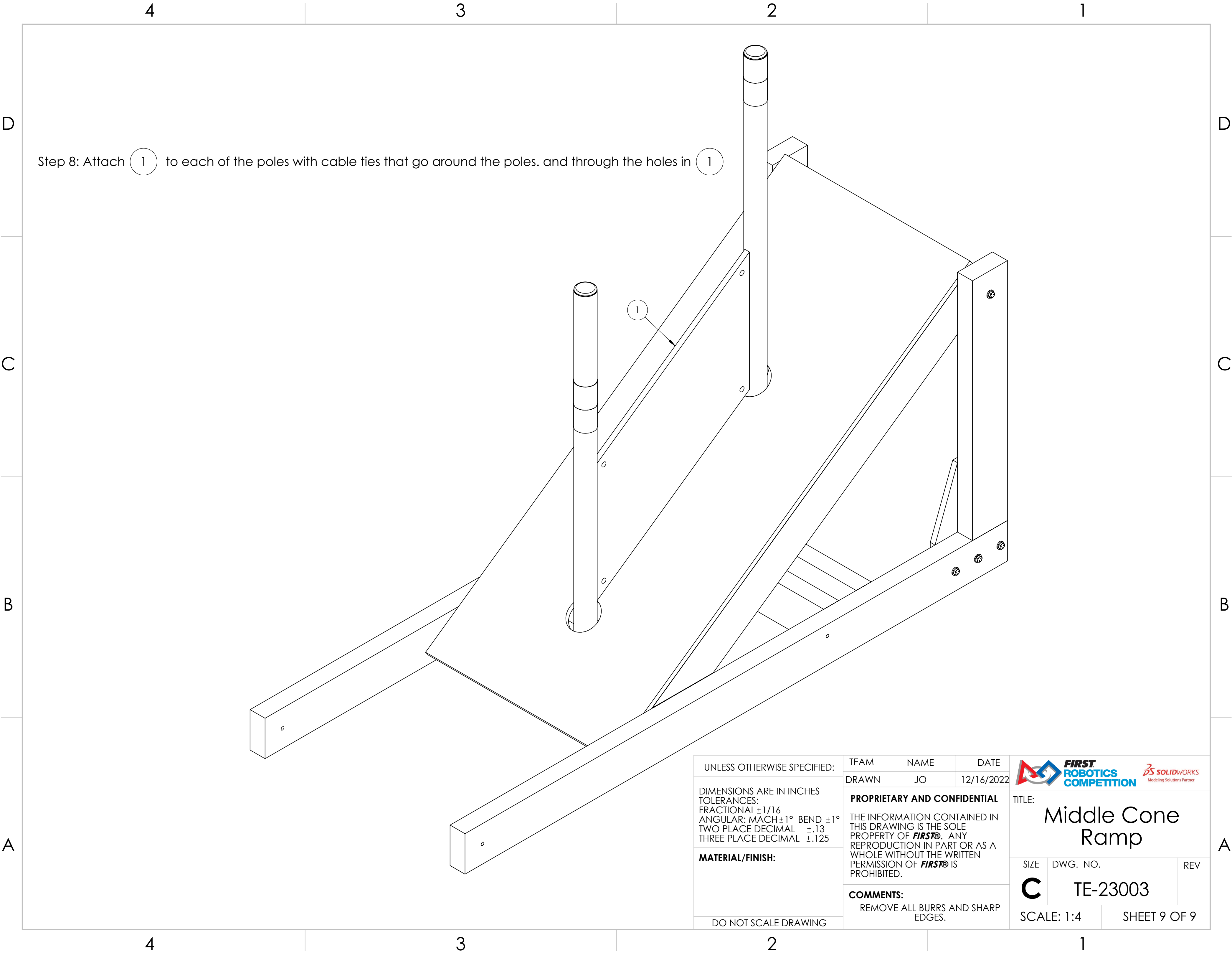
TITLE:
Middle Cone Ramp

SIZE	DWG. NO.	REV
C	TE-23003	





Step 7: Install Diagonal Assembly over the poles, and bolt into place with 1/4-20 x 3.5" Long Bolts (16) and wing nuts (15) . Washers are optional.

UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
		DRAWN	JO	12/16/2022
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		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 PROHIBITED.		
MATERIAL/FINISH:		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING				
		<div><div></div><div>TITLE: Middle Cone Ramp</div></div>		
		SIZE	DWG. NO.	REV
		C	TE-23003	
		SCALE: 1:7		SHEET 8 OF 9

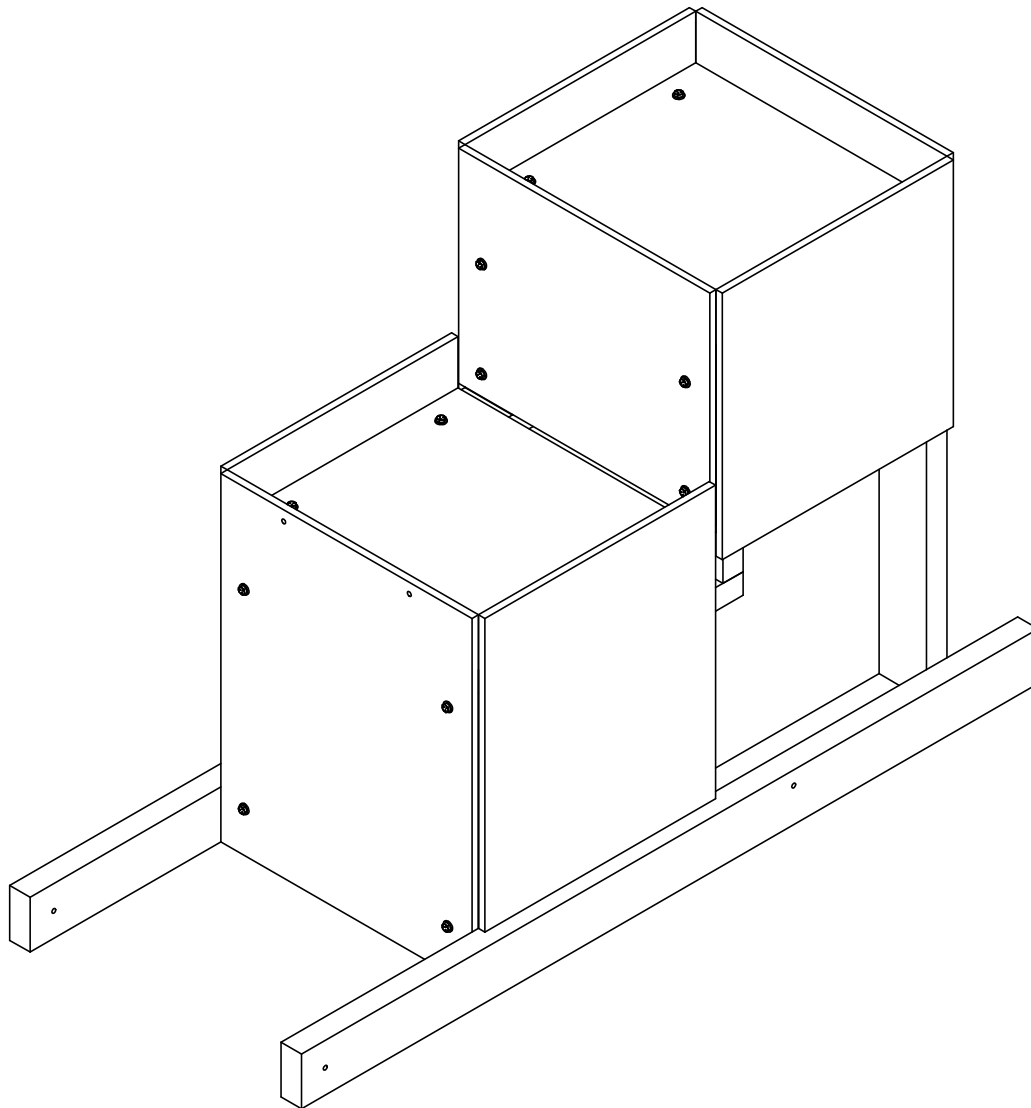


Step 8: Attach 1 to each of the poles with cable ties that go around the poles. and through the holes in 1

UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		DRAWN	JO	12/16/2022
MATERIAL/FINISH:		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 PROHIBITED.		
DO NOT SCALE DRAWING		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		





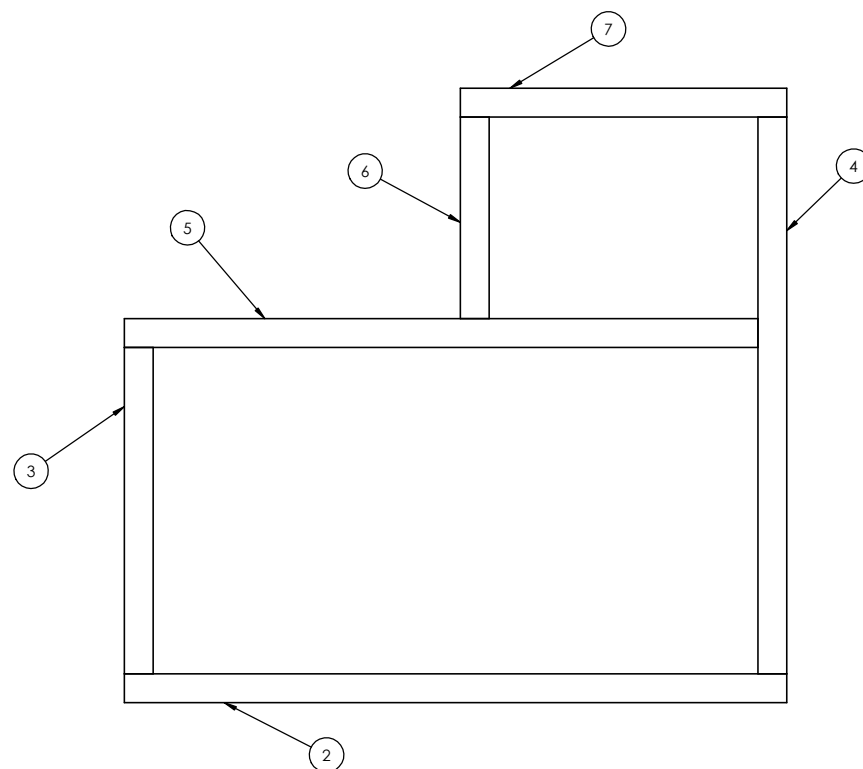
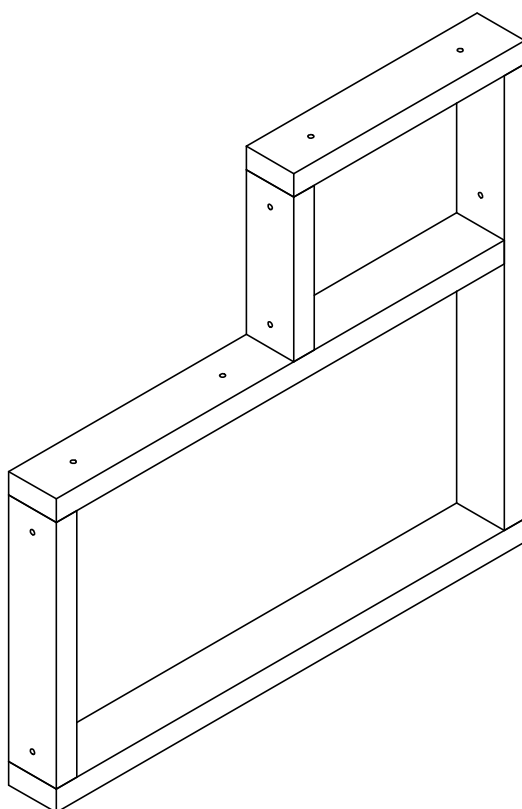
TITLE: Middle Cone Ramp		
SIZE C	DWG. NO. TE-23003	REV
SCALE: 1:4		SHEET 9 OF 9






NOTE: All holes shown are for bolt/t-nut connections that are included to make it easier to store this assembly. If storage of this assembly is not a concern, wood screws could be used instead of bolts and t-nuts and all drilled holes can be skipped.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-23005	Cube Shelf Divider Beam	2
2	TE-23018	Cube Shelf Bottom Horizontal	2
3	TE-23019	Cube Shelf Front Vertical	2
4	TE-23020	Cube Shelf Rear Vertical	2
5	TE-23021	Cube Shelf Middle Horizontal	2
6	TE-23022	Cube Shelf Front Short Vertical	2
7	TE-23023	Cube Shelf Top Horizontal	2
8	TE-23024	Cube Shelf Lower Side Panel	2
9	TE-23025	Cube Shelf Upper Side Panel	2
10	TE-23026	Cube Shelf Front Panel	1
11	TE-23027	Cube Shelf Scoring Platform	2
12	TE-23028	Cube Shelf Upper Panel	2
13	hex_.25_20_2	Steel Hex Head Bolt 1/4"-20 x 2" long, fully threaded	20
14	TeeNut_.25_20	Soft wood fiber tee nut	20
15	washer_flat_.25	Flat Washer for 1/4" Screw	20

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	 	
	DRAWN	JO	12/16/2022		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	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.			Cube Shelf	
MATERIAL/FINISH:	COMMENTS:			SIZE	DWG. NO.
	REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23004
DO NOT SCALE DRAWING				SCALE: 1:5	
				SHEET 1 OF 5	



Step 1: Assemble 2x Cube Shelf Side Frames using #8 wood screws. Match orientation of t-nut holes as shown above if you are using them.

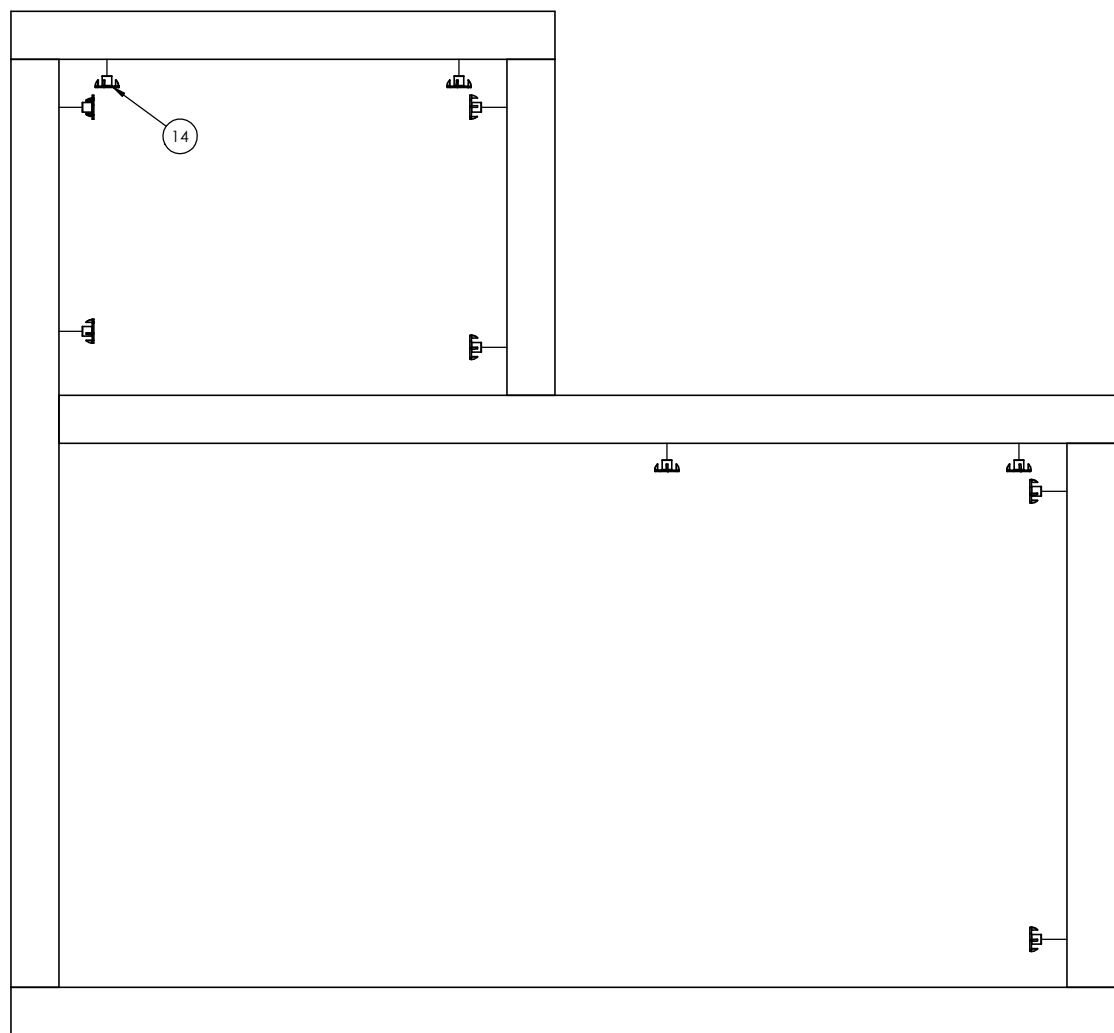
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	  	
	DRAWN	JO	12/16/2022		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf	
	THE INFORMATION 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.				
MATERIAL/FINISH:	COMMENTS:			SIZE C	
	REMOVE ALL BURRS AND SHARP EDGES.				
DO NOT SCALE DRAWING	SIZE		DWG. NO.		REV
			TE-23004		
SCALE: 1:5			SHEET 2 OF 5		

4



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1



Step 2: Install (14) t-nuts as shown if you are using them for storage.

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	 		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	DRAWN	JO	12/16/2022	TITLE: Cube Shelf		
MATERIAL/FINISH:	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 PROHIBITED.			SIZE	DWG. NO.	REV
DO NOT SCALE DRAWING	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23004	
				SCALE: 1:3		SHEET 3 OF 5

4

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2

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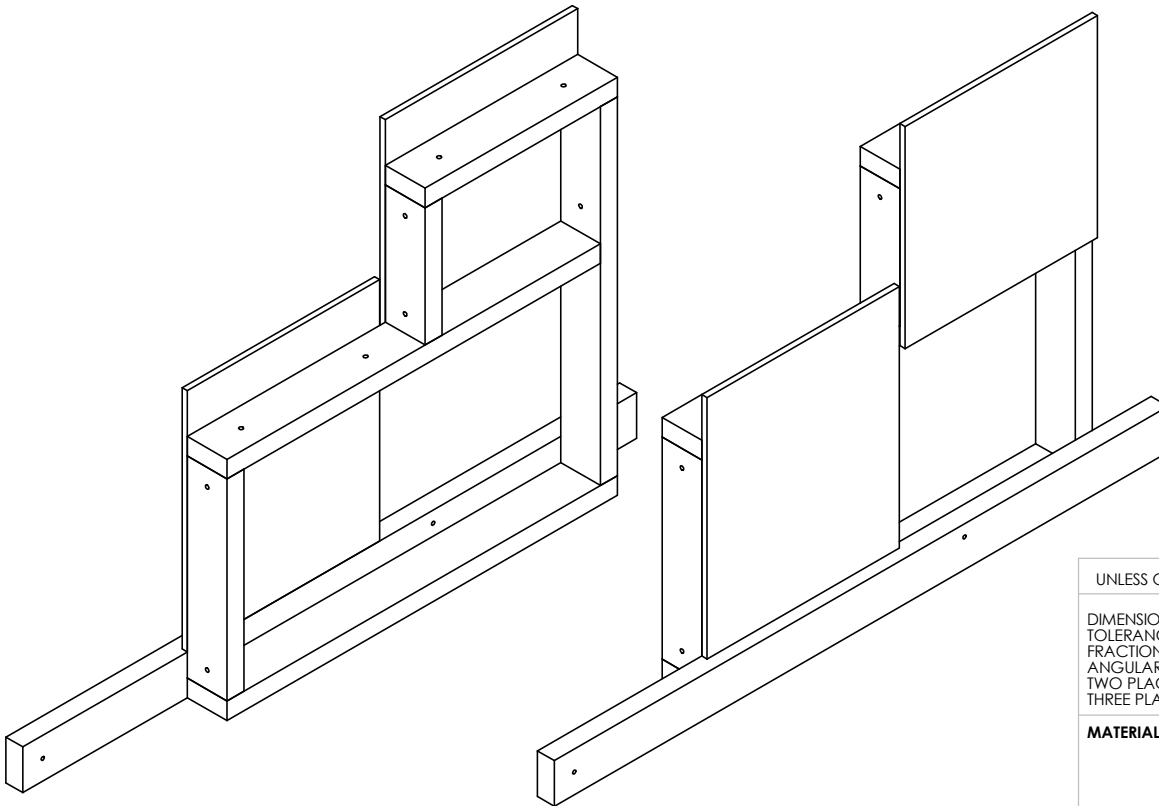
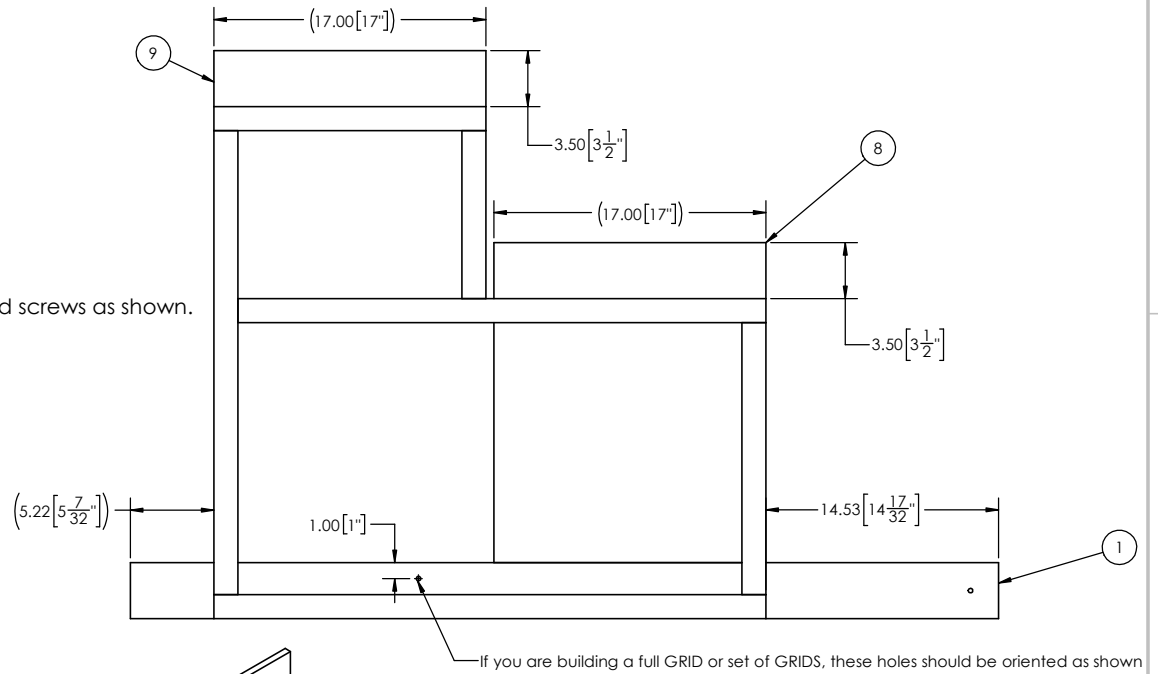
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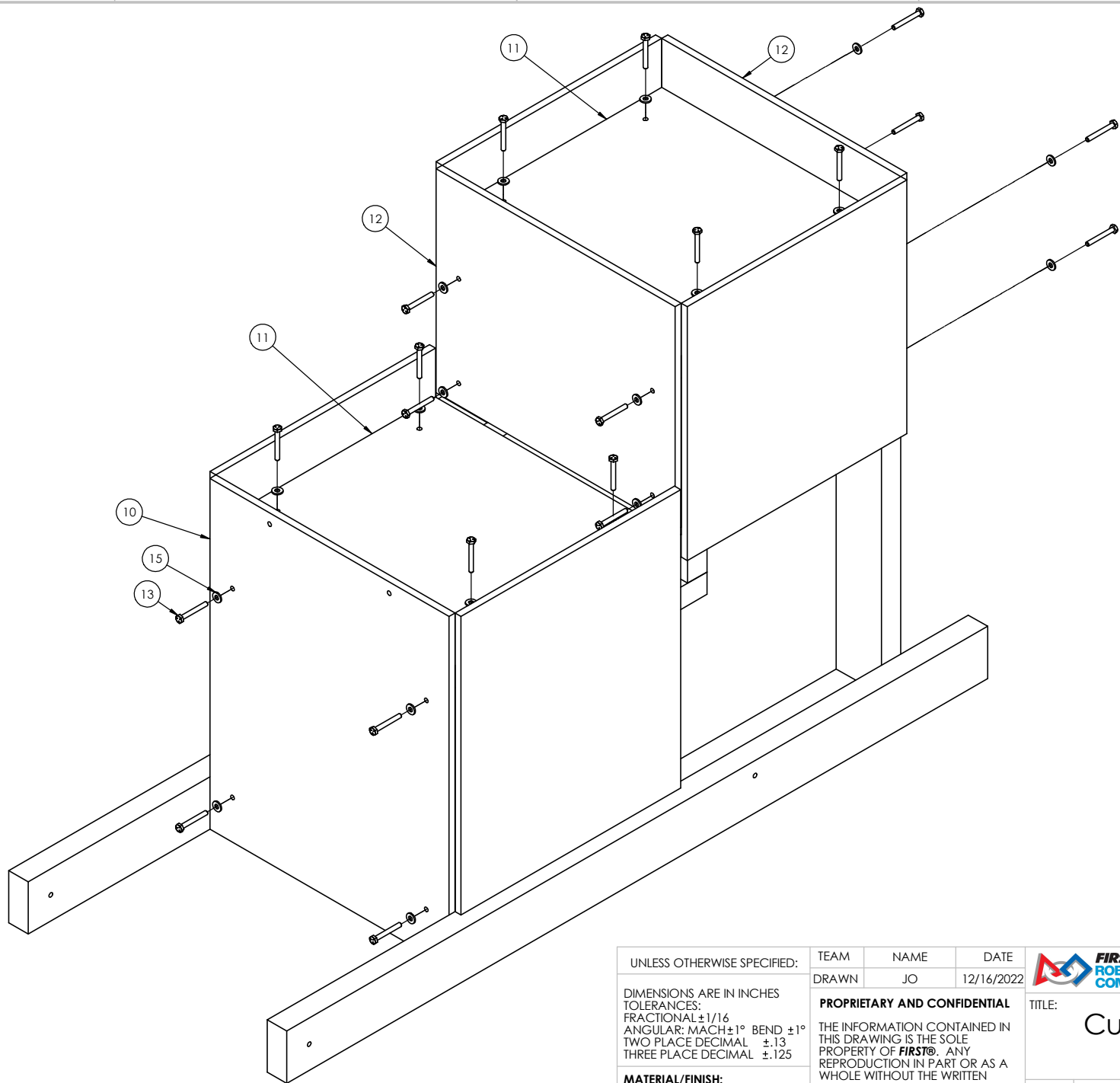
B

A



Step 3: Attach ①, ⑧ and ⑨ to the Cube Shelf Side Frames with #8 wood screws as shown.
Create a left and right version, as shown below.



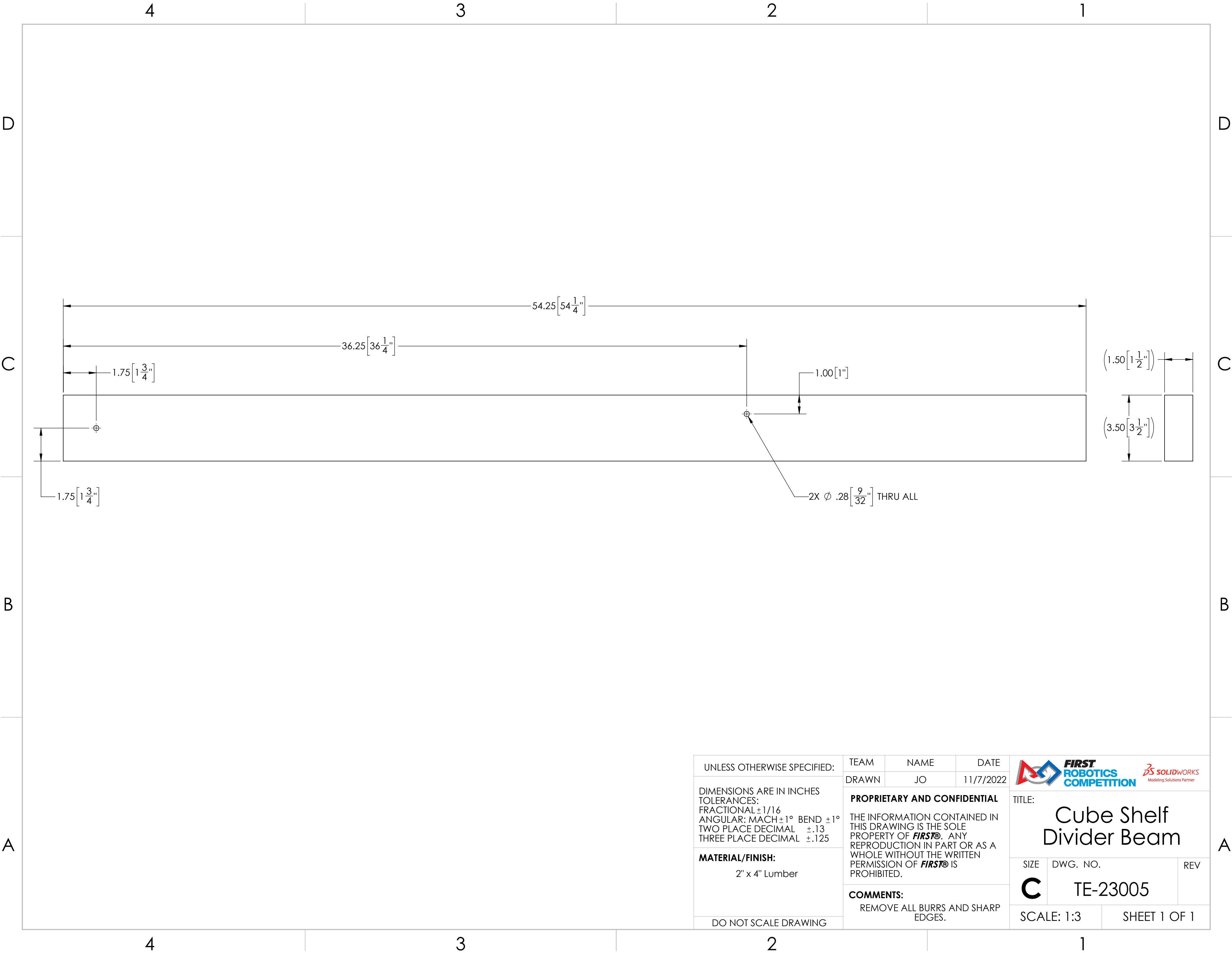
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	DRAWN	JO	12/16/2022			
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
TITLE:				Cube Shelf		
SIZE				DWG. NO.		REV
C				TE-23004		
SCALE: 1:6				SHEET 4 OF 5		

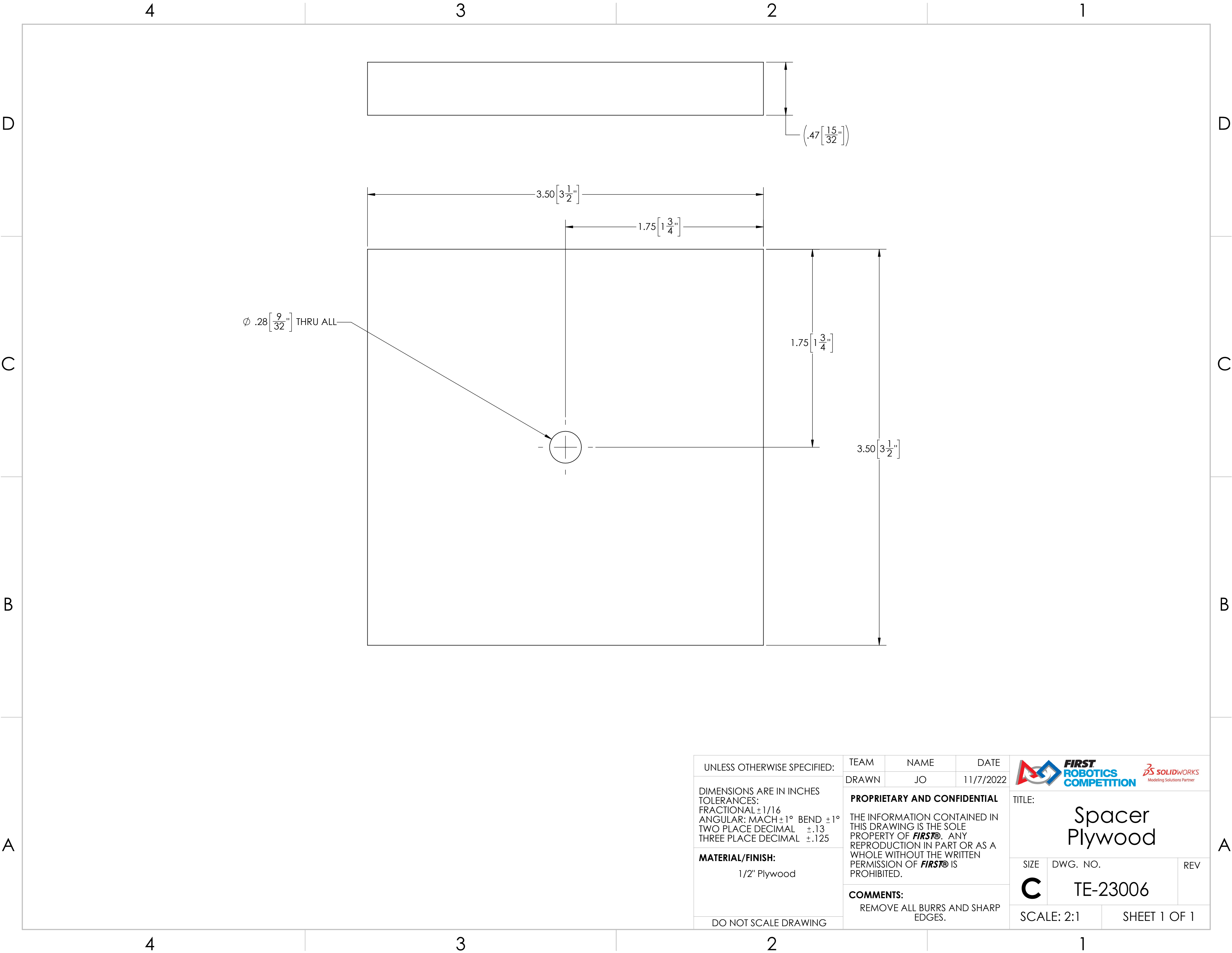




Step 4: Attach (10), (11) and (12) panels to the frames with 1/4-20 x 2" Long Hex Head Bolts (13) into t-nuts as shown (or #8 wood screws), washers (15) are optional. Panels should end up flush with each other at the top edges.

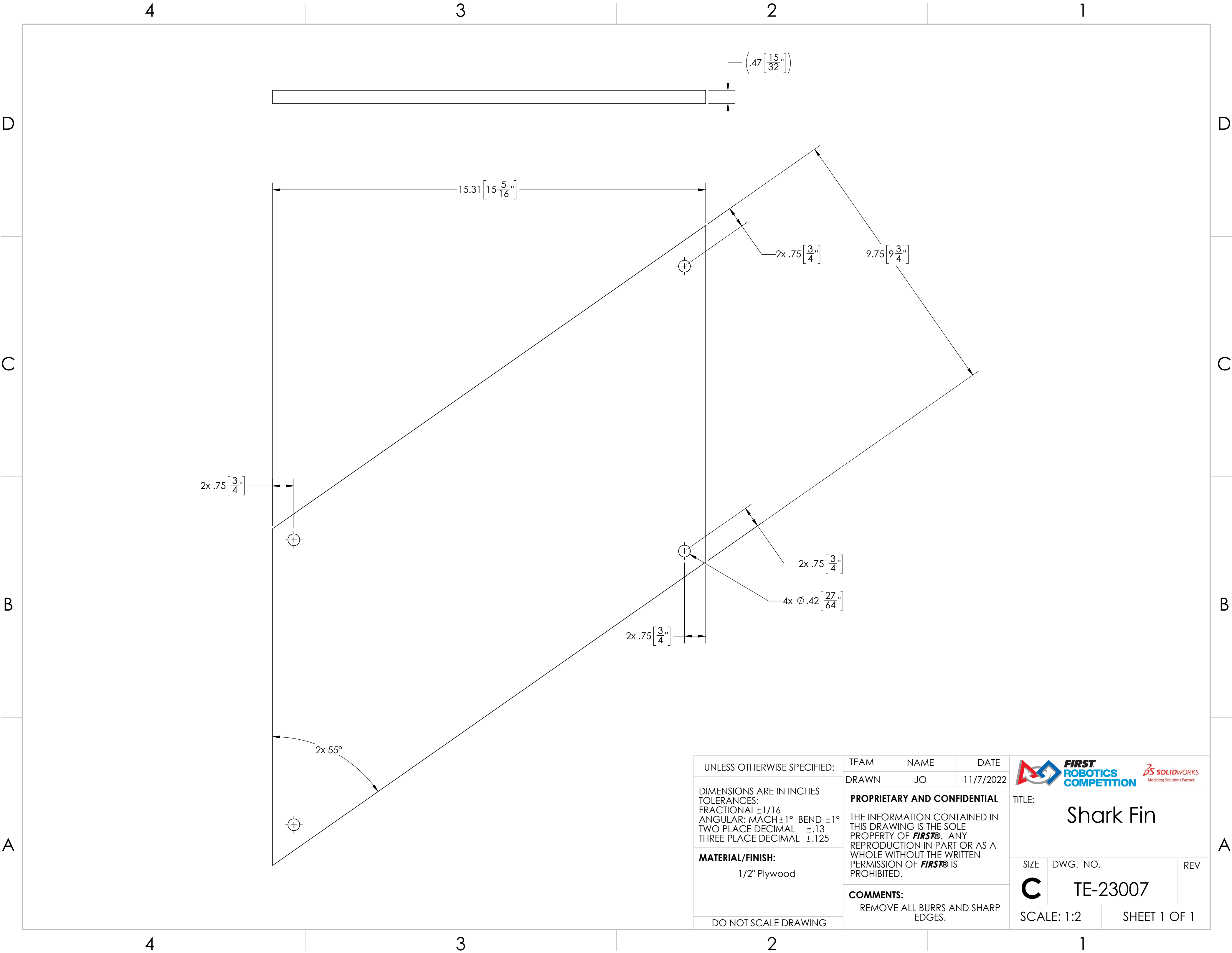
UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	 		
	DRAWN	JO	12/16/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf		
	THE INFORMATION 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.					
MATERIAL/FINISH:	COMMENTS:			SIZE	DWG. NO.	REV
	REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23004	
DO NOT SCALE DRAWING				SCALE: 1:4		SHEET 5 OF 5









UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: 1/2" Plywood DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div><div></div><div>TITLE: Spacer Plywood</div></div>	
	DRAWN	JO	11/7/2022		
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.
SCALE: 2:1		SHEET 1 OF 1			



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div> <div>TITLE: Shark Fin</div>		
	DRAWN	JO	11/7/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	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 PROHIBITED.			SIZE	DWG. NO.	REV
				C	TE-23007	
MATERIAL/FINISH: 1/2" Plywood	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:2		SHEET 1 OF 1
DO NOT SCALE DRAWING						

4

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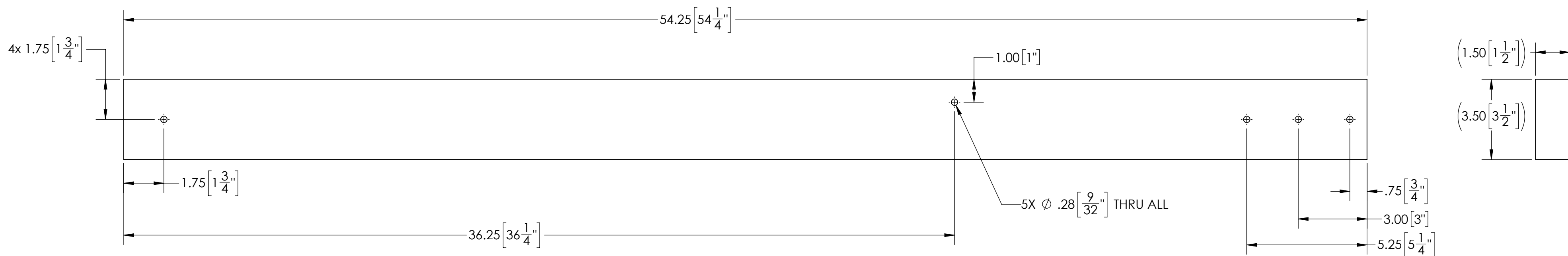
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UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE	<div></div>		
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<p>DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$</p> <p>MATERIAL/FINISH:</p> <p>2" x 4" Lumber</p>		<p>PROPRIETARY AND CONFIDENTIAL</p> <p>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.</p>			<p>TITLE:</p> <p>Cone Ramp Horizontal</p>		
		<p>COMMENTS:</p> <p>REMOVE ALL BURRS AND SHARP EDGES.</p>					
		DO NOT SCALE DRAWING					SIZE
					C	TE-23008	
					SCALE: 3:10		SHEET 1 OF 1

4

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2

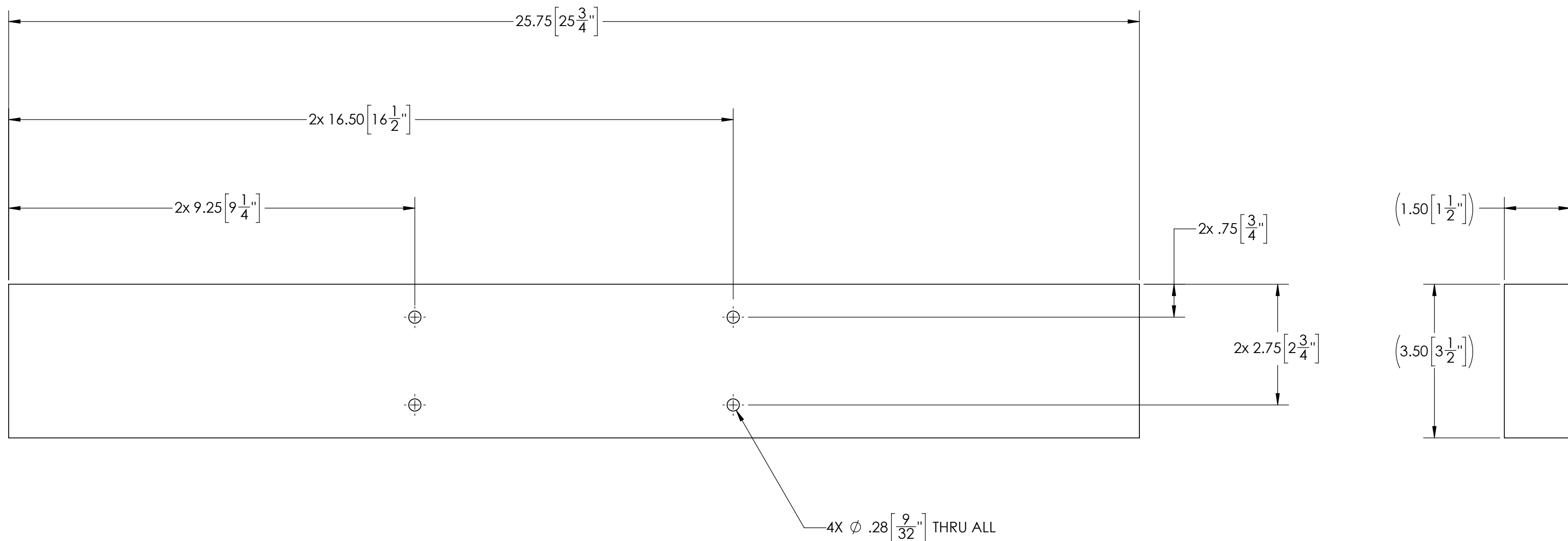
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D

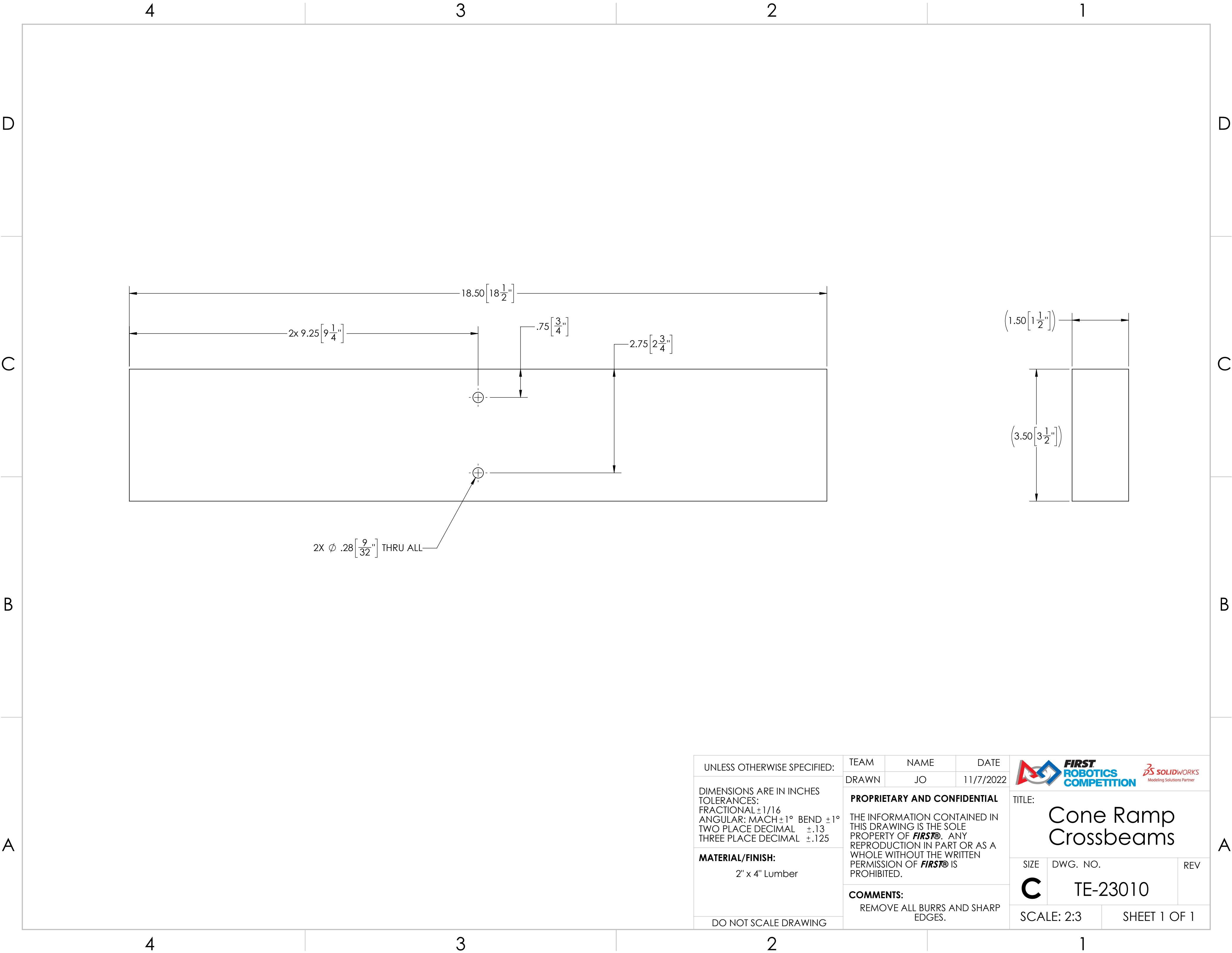
C



B

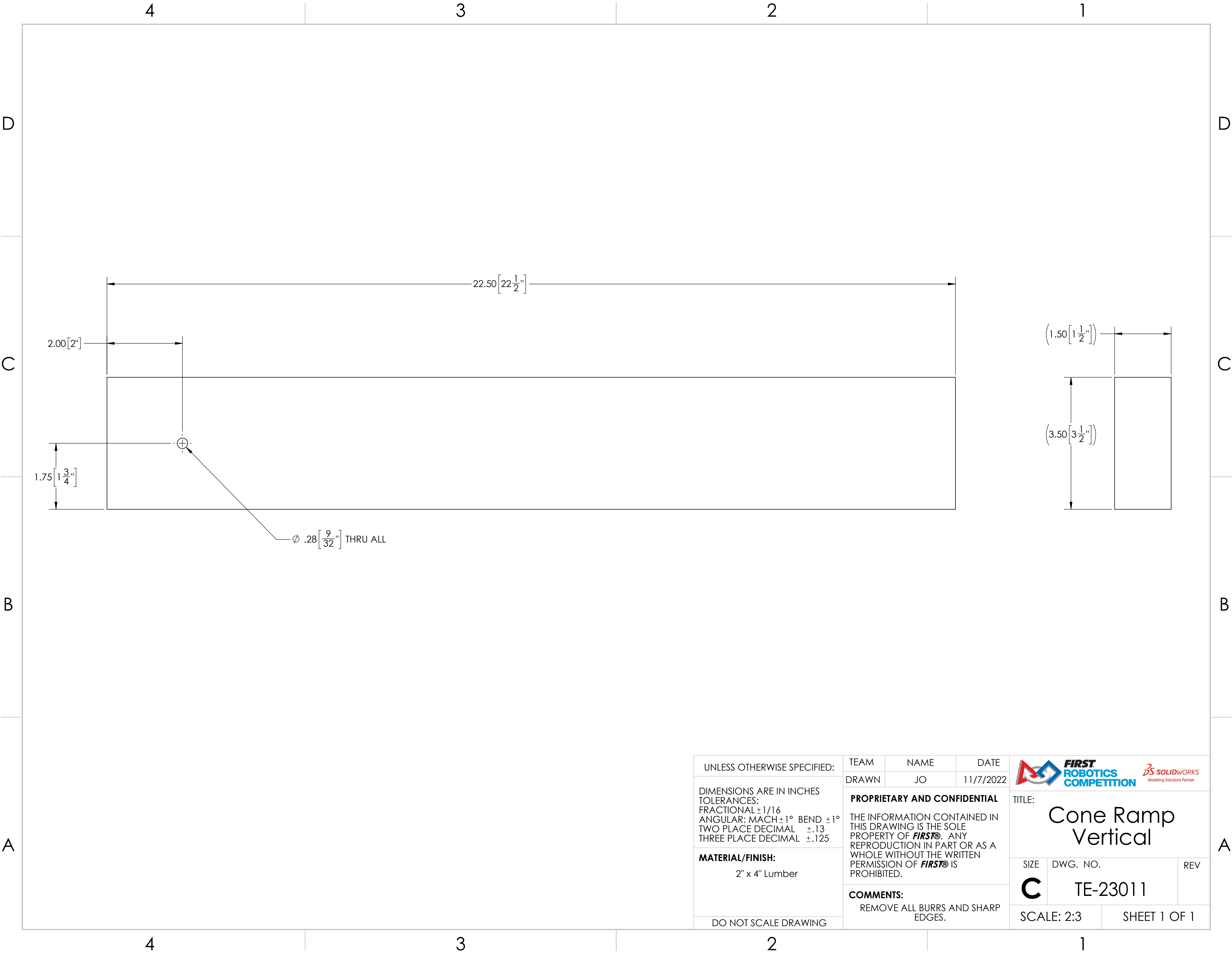
A





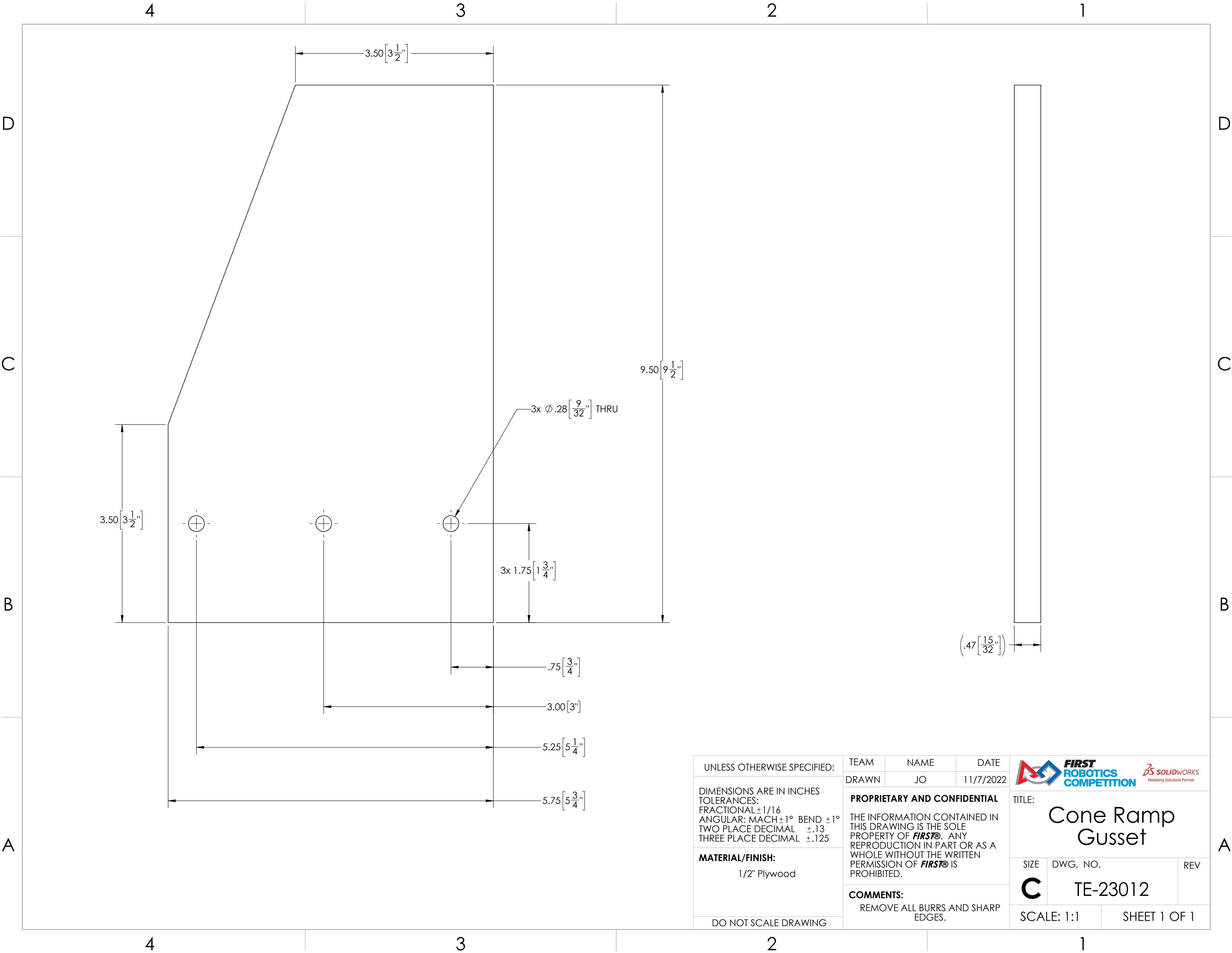
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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$ MATERIAL/FINISH: 2" x 4" Lumber		DRAWN		JO		11/7/2022	
		PROPRIETARY AND CONFIDENTIAL 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 PROHIBITED.					
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
DO NOT SCALE DRAWING		<div><div></div><div>TITLE: Wide Cone Ramp Crossbeams</div><div><div><div>SIZE</div><div>C</div></div><div><div>DWG. NO.</div><div>TE-23009</div></div><div><div>REV</div><div></div></div></div><div><div>SCALE: 1:2</div><div>SHEET 1 OF 1</div></div></div>					





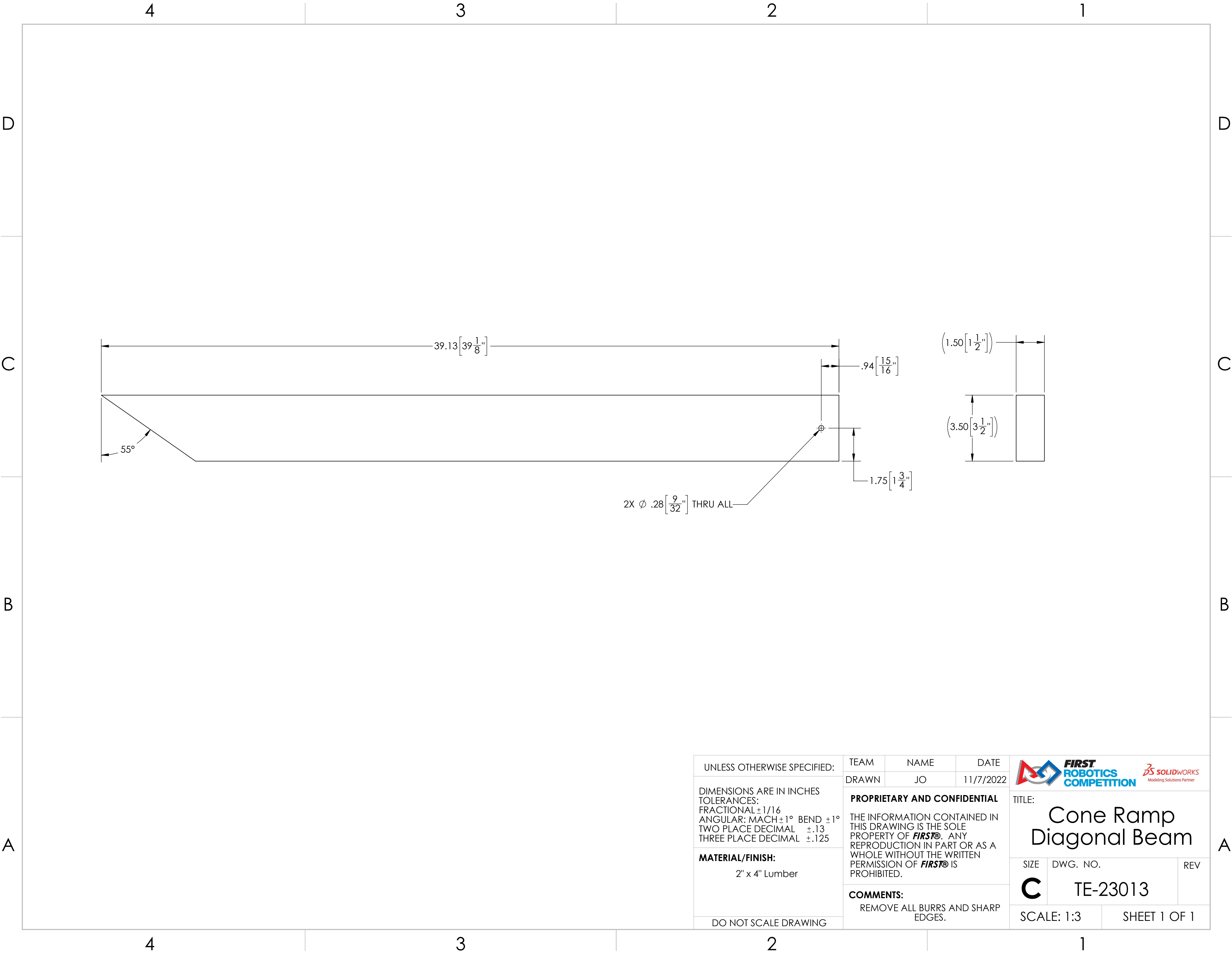
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	DRAWN	JO	11/7/2022			
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
TITLE:			Cone Ramp Crossbeams			
SIZE	DWG. NO.		REV			
C	TE-23010					
SCALE: 2:3		SHEET 1 OF 1				





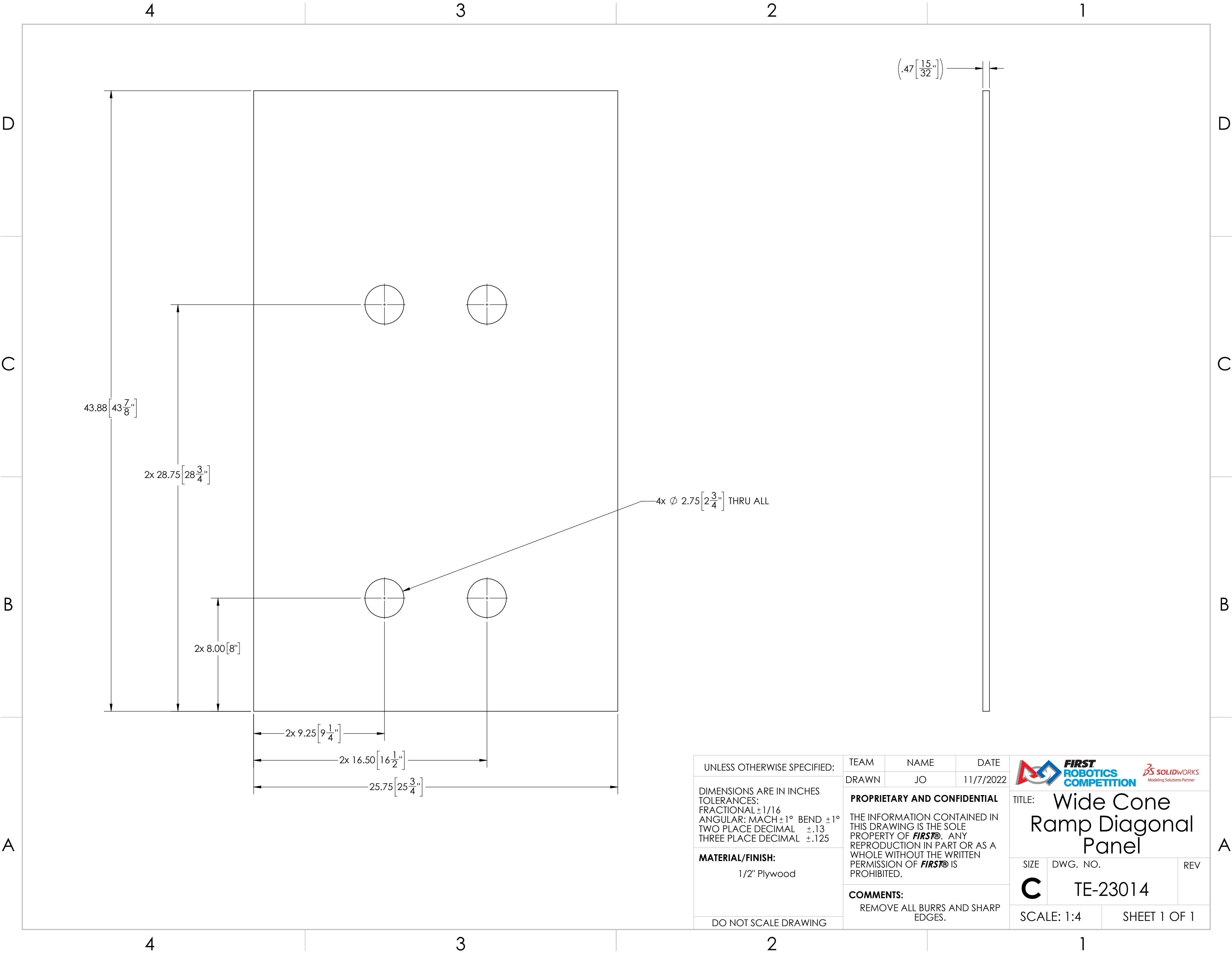
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	DRAWN	JO	11/7/2022	
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			





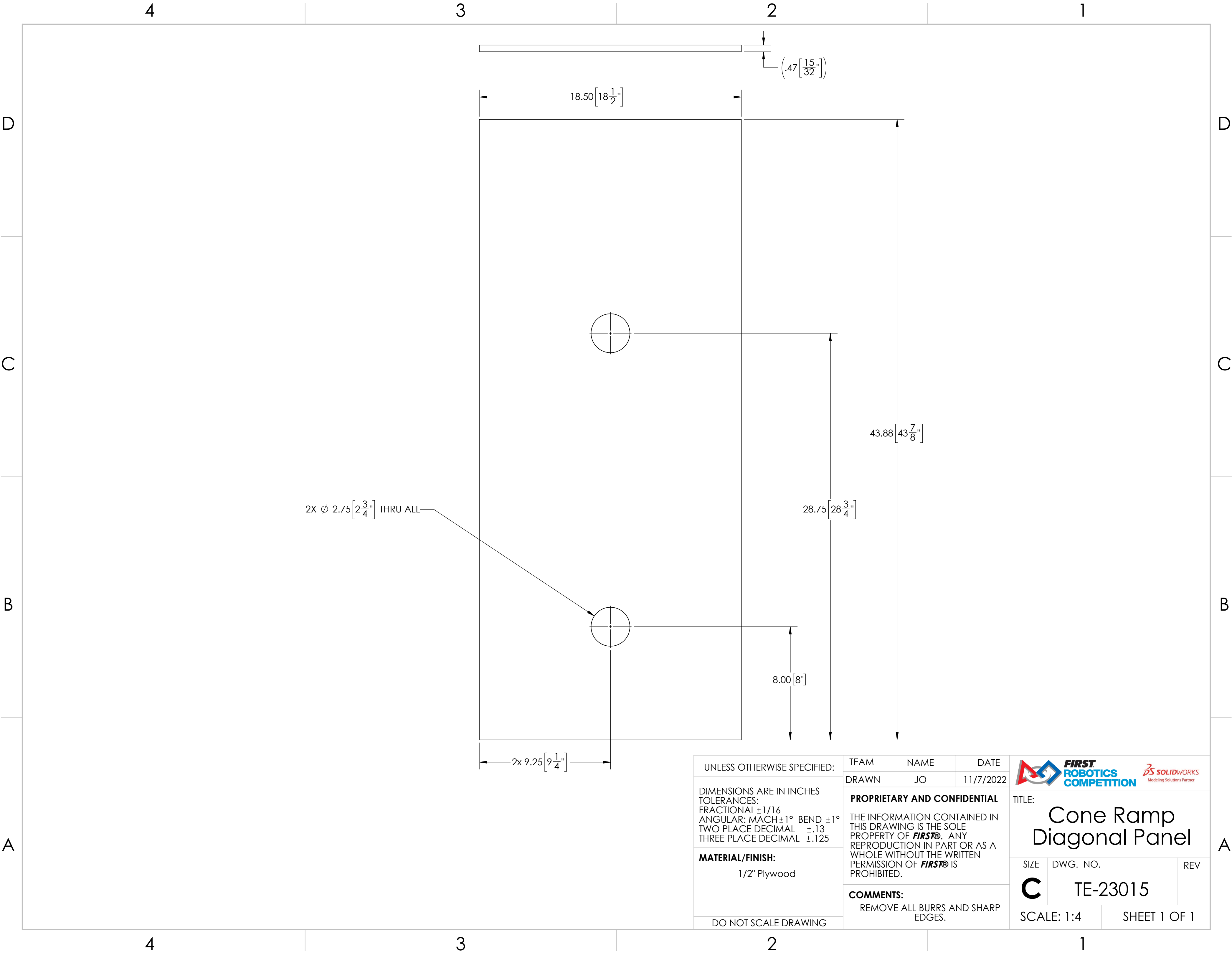
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: 1/2" Plywood DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div>	
	DRAWN	JO	11/7/2022		
	<div>PROPRIETARY AND CONFIDENTIAL THE INFORMATION 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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.</div>				
TITLE:				Cone Ramp Gusset	
SIZE		DWG. NO.		REV	
C		TE-23012			
SCALE: 1:1			SHEET 1 OF 1		





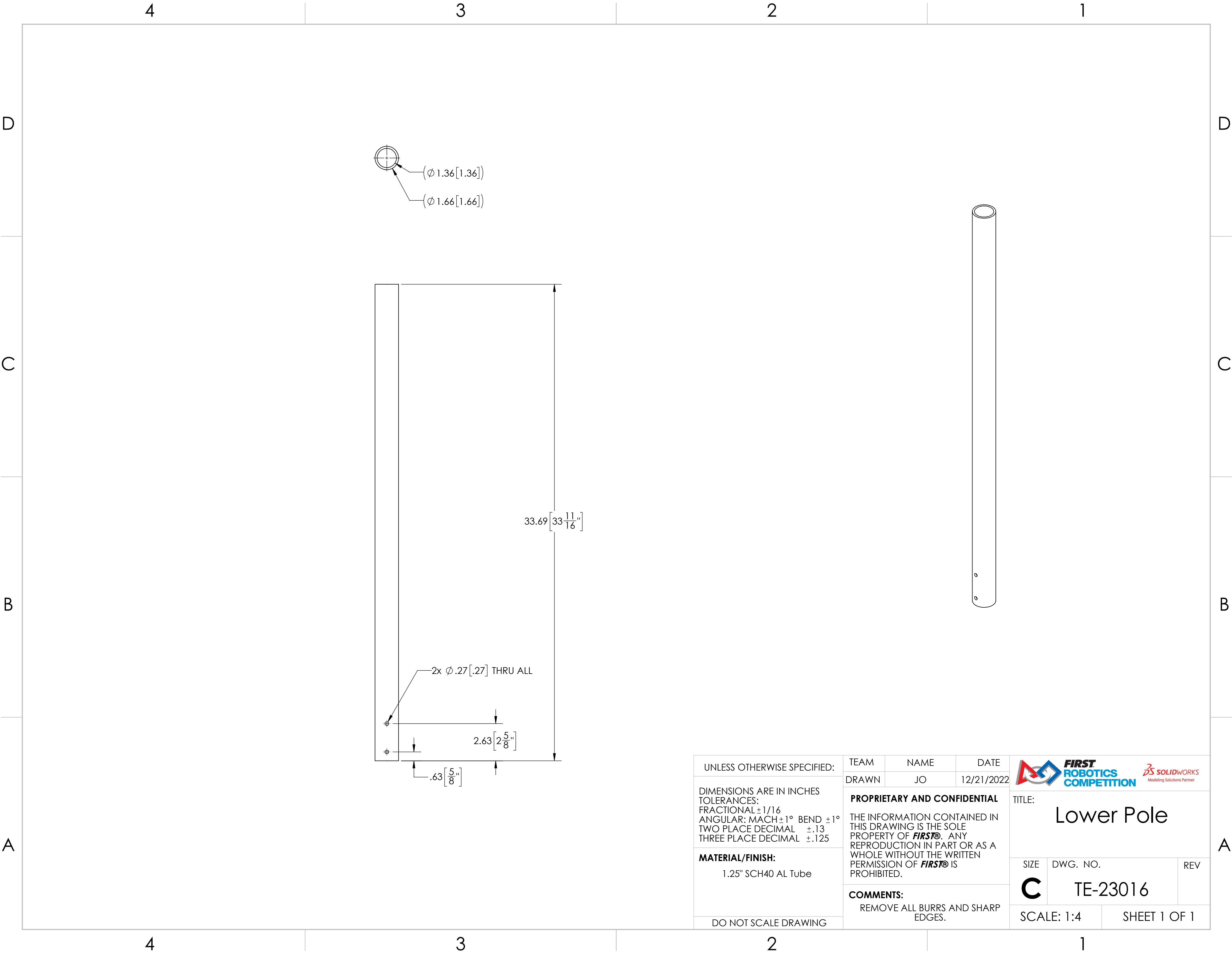
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	DRAWN	JO	11/7/2022			
	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					





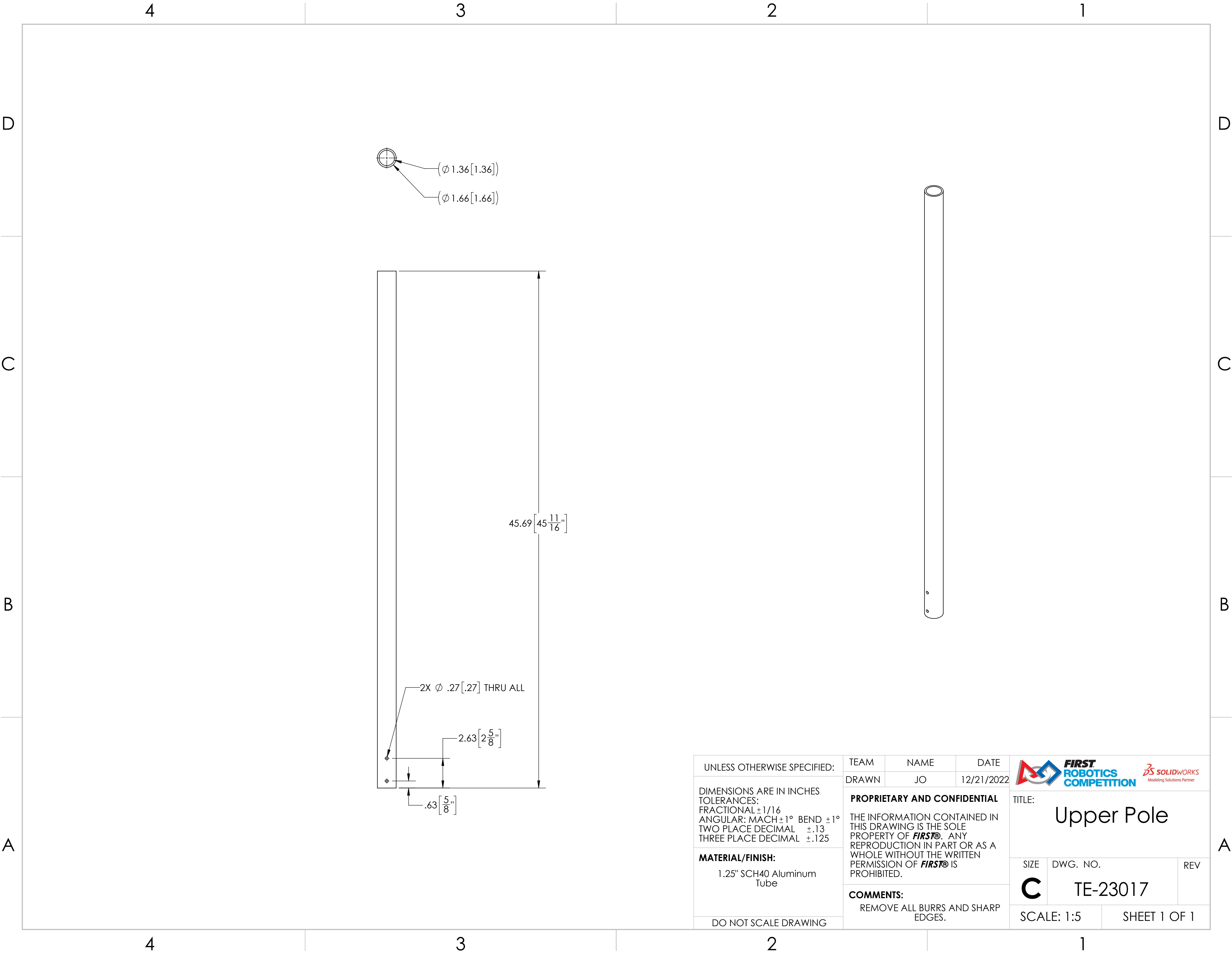
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	DRAWN	JO	11/7/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			TITLE: Wide Cone Ramp Diagonal Panel		
	THE INFORMATION CONTAINED 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.					
	COMMENTS:					
	REMOVE ALL BURRS AND SHARP EDGES.					
MATERIAL/FINISH: 1/2" Plywood				SIZE	DWG. NO.	REV
				C	TE-23014	
DO NOT SCALE DRAWING				SCALE: 1:4		SHEET 1 OF 1





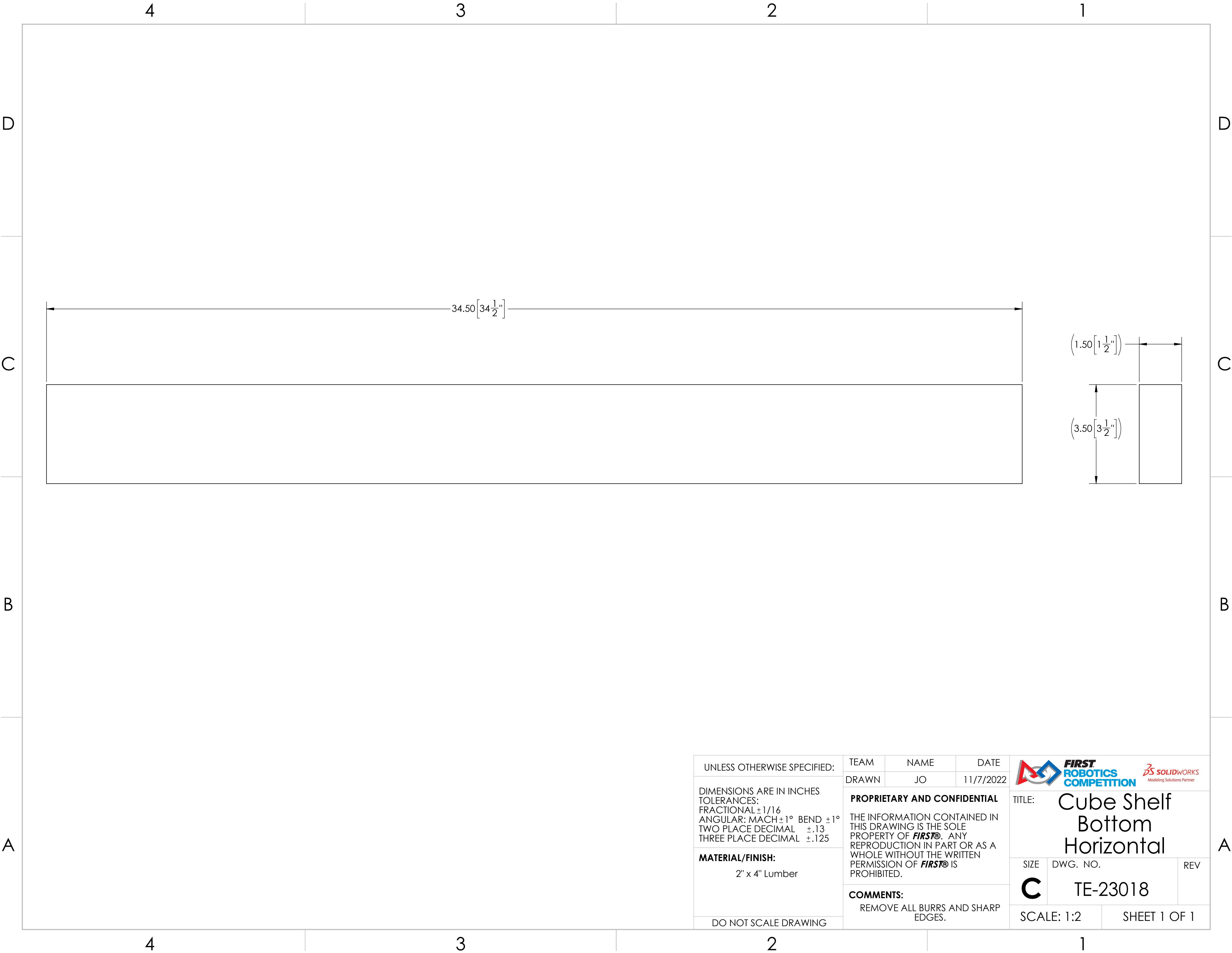
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	DRAWN	JO	11/7/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			TITLE: Cone Ramp Diagonal Panel		
	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST® . ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.					
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
MATERIAL/FINISH: 1/2" Plywood				SIZE C	DWG. NO. TE-23015	REV
DO NOT SCALE DRAWING				SCALE: 1:4		SHEET 1 OF 1





UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: 1.25" SCH40 AL Tube DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div></div> <div>TITLE: <h1>Lower Pole</h1></div>		
	DRAWN	JO	12/21/2022			
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.	REV
C				TE-23016		
SCALE: 1:4				SHEET 1 OF 1		



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div></div>		
	DRAWN	JO	12/21/2022			
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	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 PROHIBITED.			TITLE: Upper Pole		
	MATERIAL/FINISH: 1.25" SCH40 Aluminum Tube	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SIZE	DWG. NO.
C					TE-23017	
DO NOT SCALE DRAWING				SCALE: 1:5		SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div></div><div>TITLE: Cube Shelf Bottom Horizontal</div></div>	
	DRAWN	JO	11/7/2022		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			SIZE DWG. NO. REV	
	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.				
	COMMENTS:			C TE-23018	
REMOVE ALL BURRS AND SHARP EDGES.					
MATERIAL/FINISH:	DO NOT SCALE DRAWING			SCALE: 1:2	
2" x 4" Lumber				SHEET 1 OF 1	

D

C

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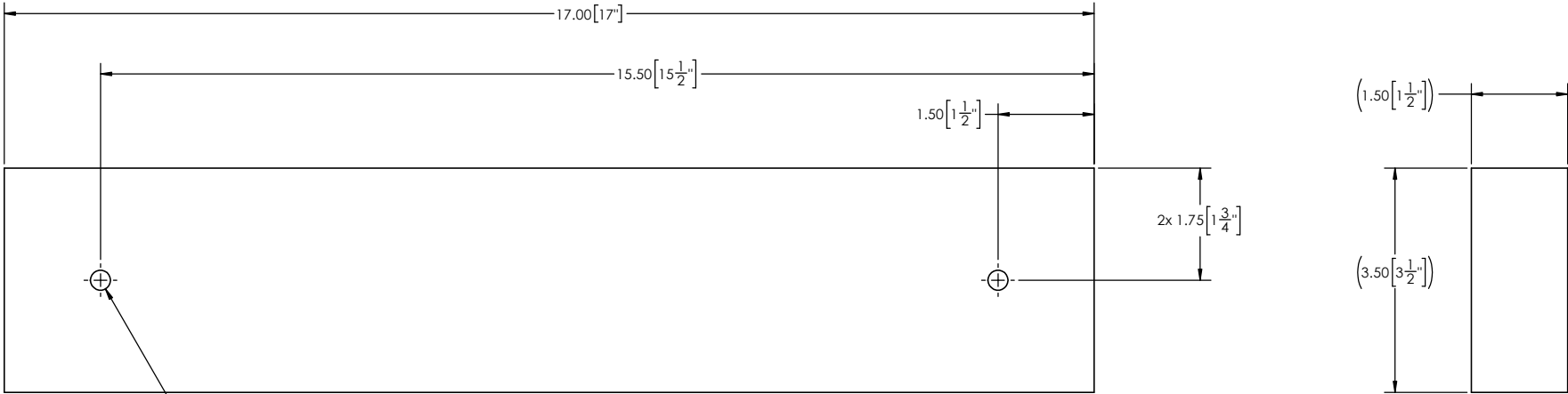
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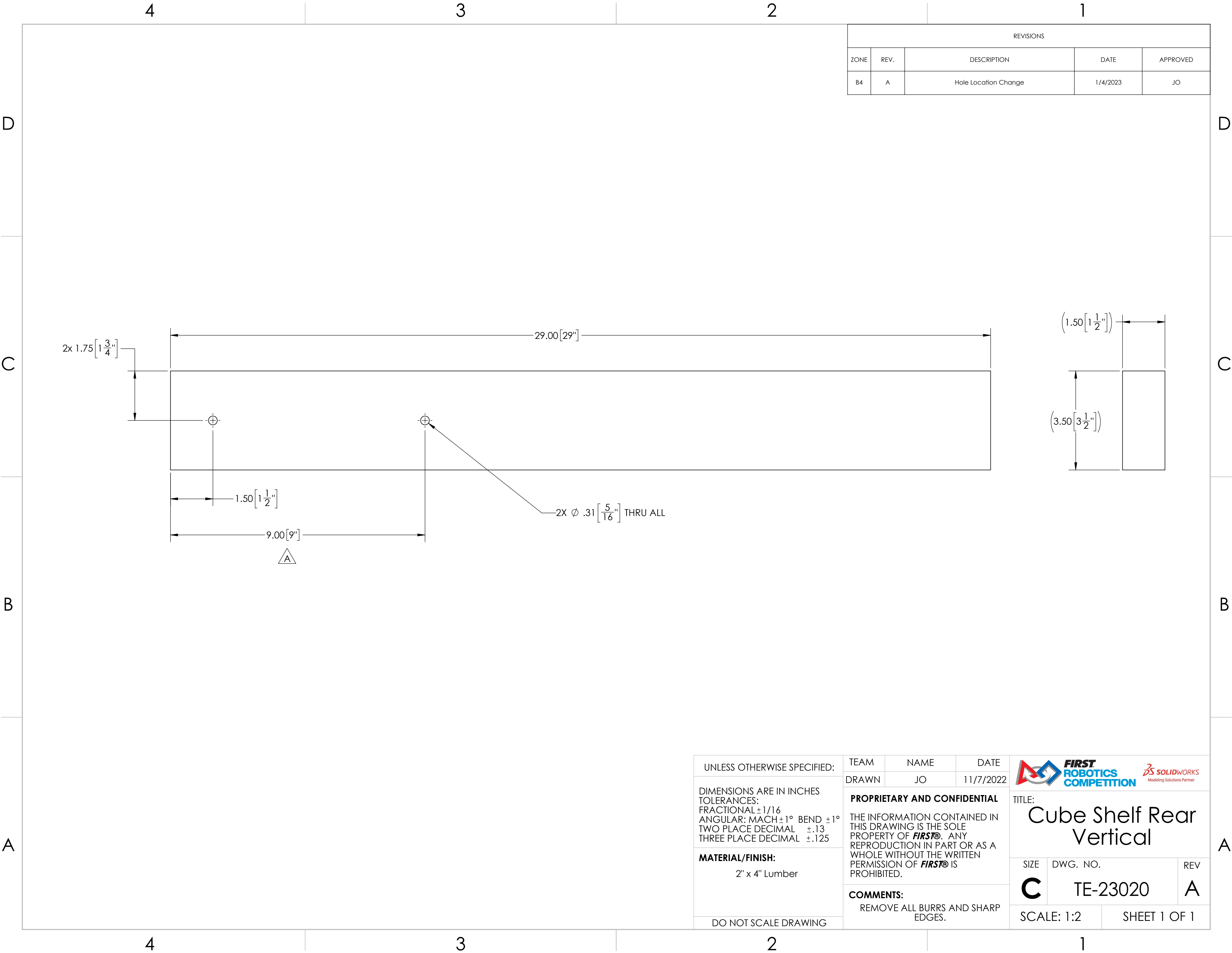
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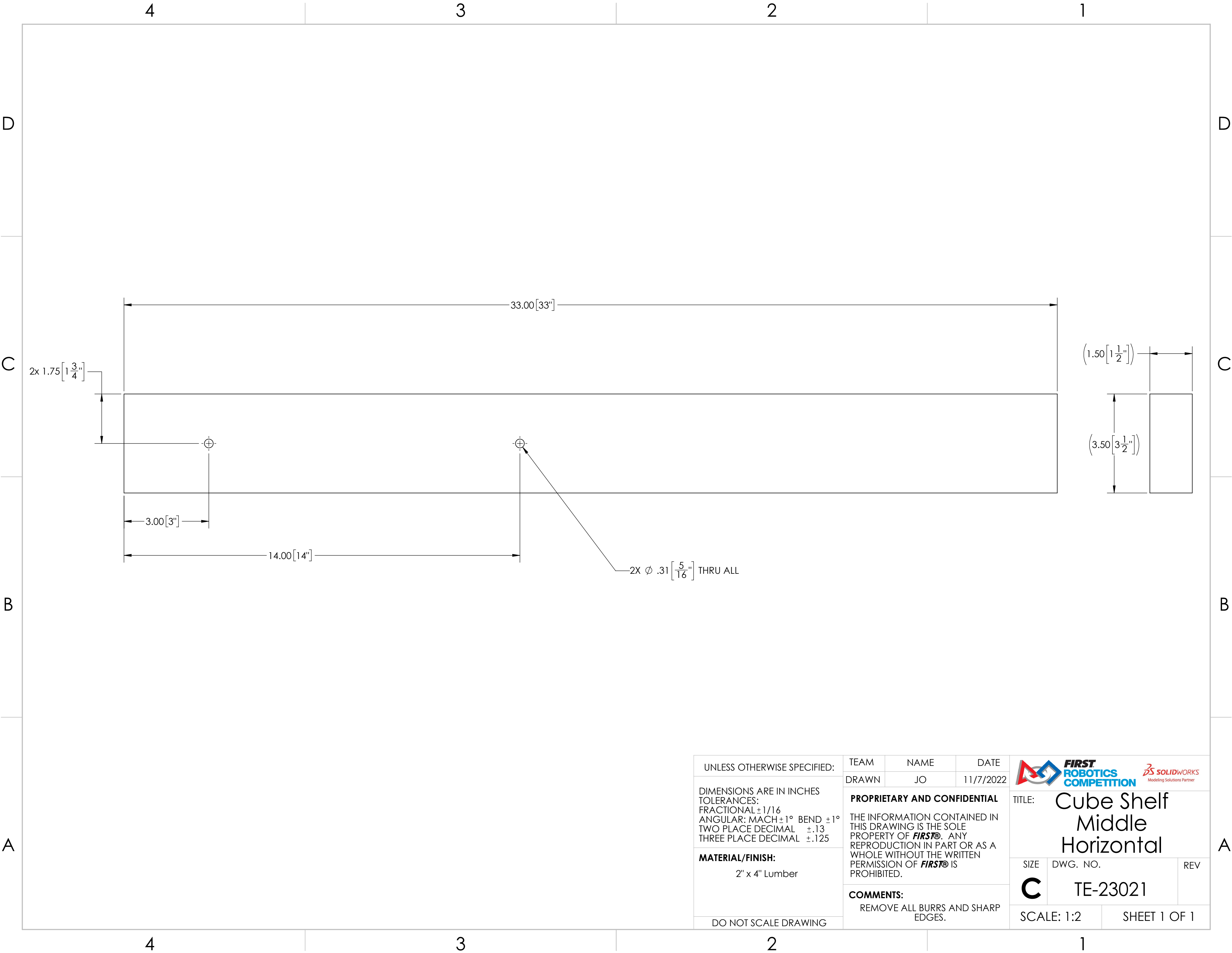
2X Ø .31 [5/16] THRU ALL

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: 2" x 4" Lumber DO NOT SCALE DRAWING	TEAM	NAME	DATE	 		
	DRAWN	JO	11/7/2022			
	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf Front Vertical		
	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.					
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.				SIZE	DWG. NO.	REV
				C	TE-23019	
				SCALE: 3:4		SHEET 1 OF 1



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B4	A	Hole Location Change	1/4/2023	JO

UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	<div><div></div><div>TITLE: Cube Shelf Rear Vertical</div></div>	
	DRAWN	JO	11/7/2022		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	PROPRIETARY AND CONFIDENTIAL			SIZE C	
	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.				
MATERIAL/FINISH: 2" x 4" Lumber	COMMENTS:			DWG. NO.	
	REMOVE ALL BURRS AND SHARP EDGES.			TE-23020	
DO NOT SCALE DRAWING				REV	A
			SCALE: 1:2		SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
		DRAWN	JO	11/7/2022
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$		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 PROHIBITED.		
		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING				
		TITLE: Cube Shelf Middle Horizontal		
		SIZE	DWG. NO.	REV
		C	TE-23021	
		SCALE: 1:2		SHEET 1 OF 1



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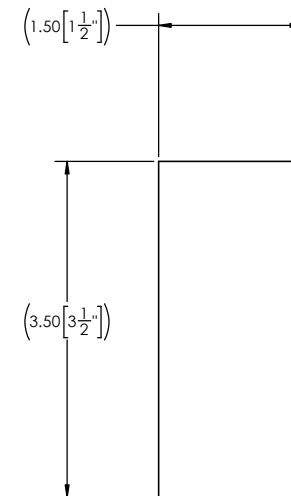
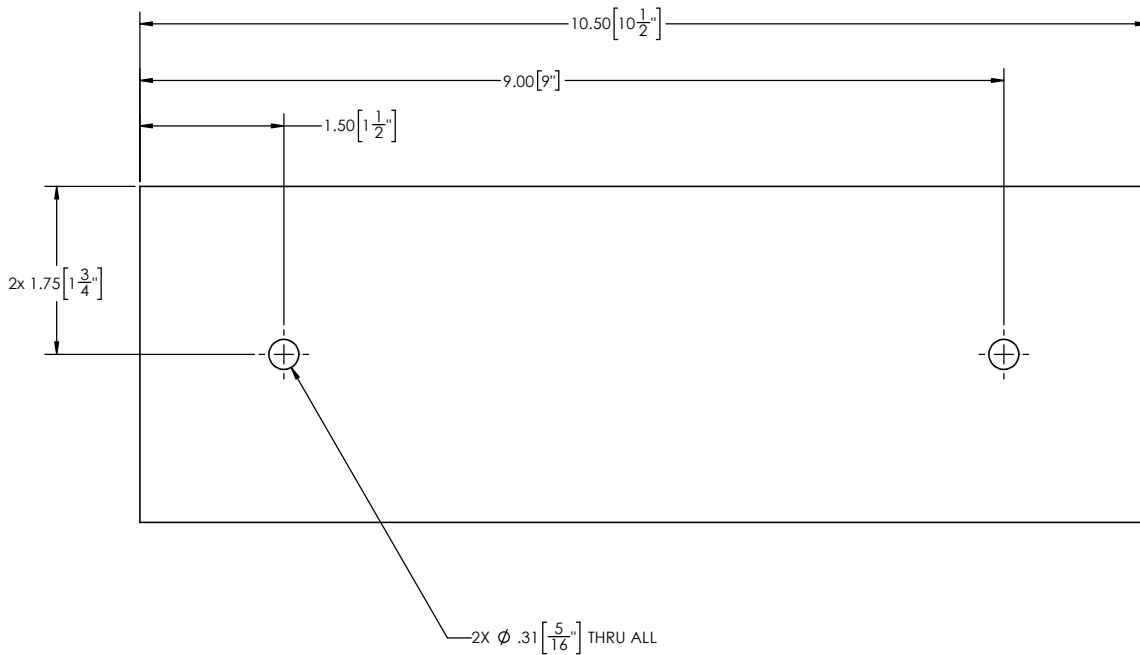
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE	 	
	DRAWN	JO	11/7/2022		
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf Front Short Vertical	
	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.			SIZE	DWG. NO.
	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			C	TE-23022
MATERIAL/FINISH: 2" x 4" Lumber				SCALE: 1:1	REV
DO NOT SCALE DRAWING				SHEET 1 OF 1	

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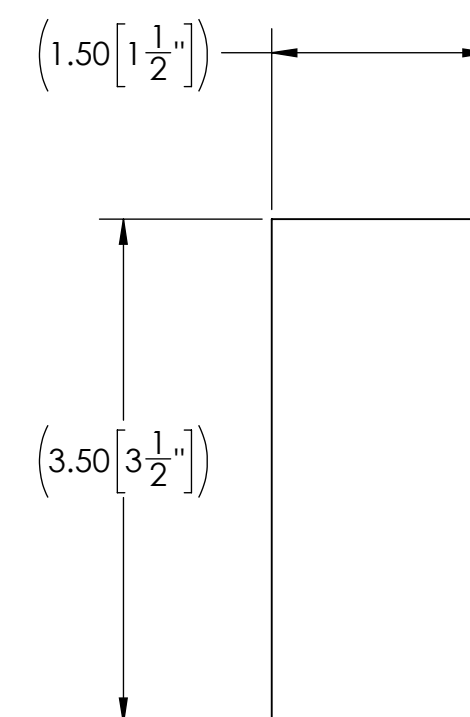
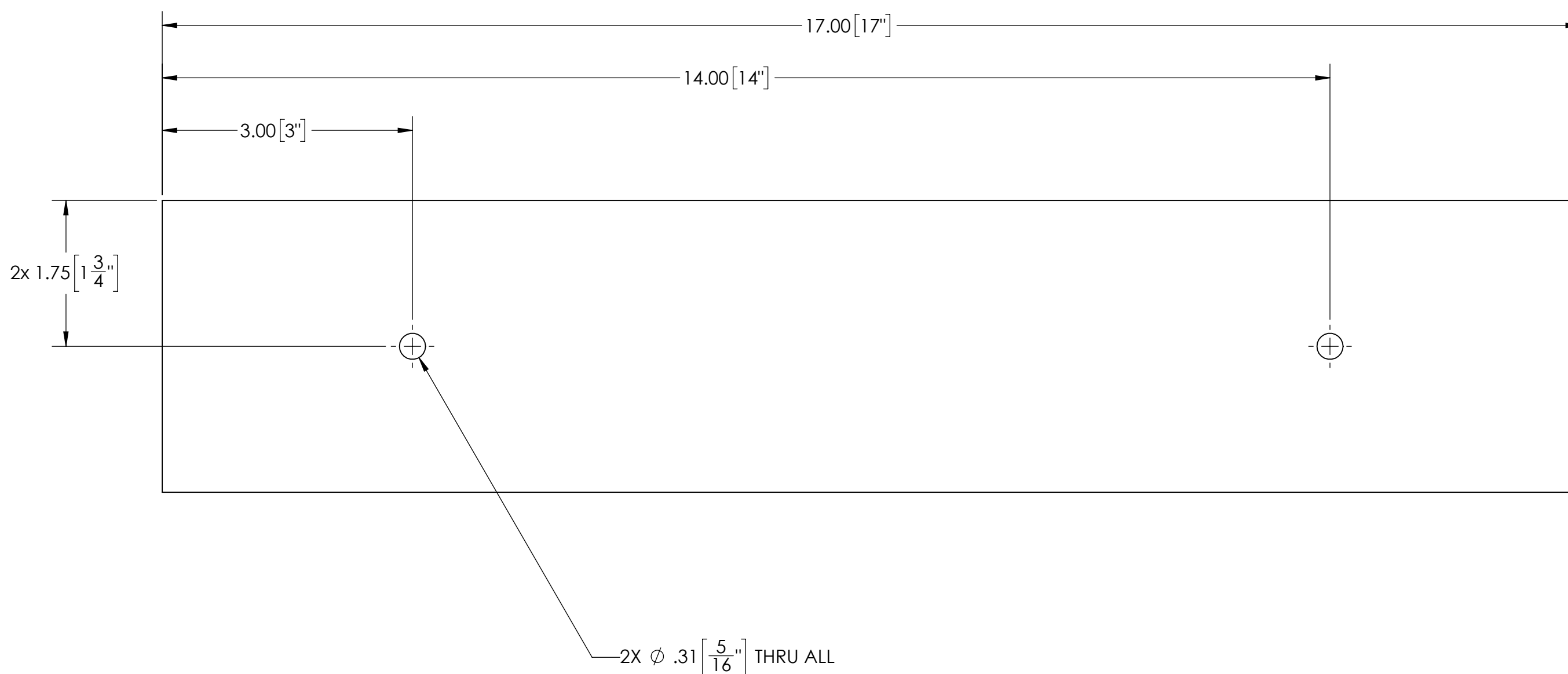
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UNLESS OTHERWISE SPECIFIED:		TEAM	NAME	DATE
<div>DIMENSIONS ARE IN INCHES</div> <div>TOLERANCES:</div> <div>FRACTIONAL $\pm 1/16$</div> <div>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$</div> <div>TWO PLACE DECIMAL $\pm .13$</div> <div>THREE PLACE DECIMAL $\pm .125$</div> <div>MATERIAL/FINISH:</div> <div>2" x 4" Lumber</div> <div>DO NOT SCALE DRAWING</div>		DRAWN	JO	11/7/2022
		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 PROHIBITED.		
		COMMENTS:		
		REMOVE ALL BURRS AND SHARP EDGES.		

<div></div>		
TITLE:		
Cube Shelf Top Horizontal		
SIZE	DWG. NO.	REV
C	TE-23023	
SCALE: 3:4		SHEET 1 OF 1

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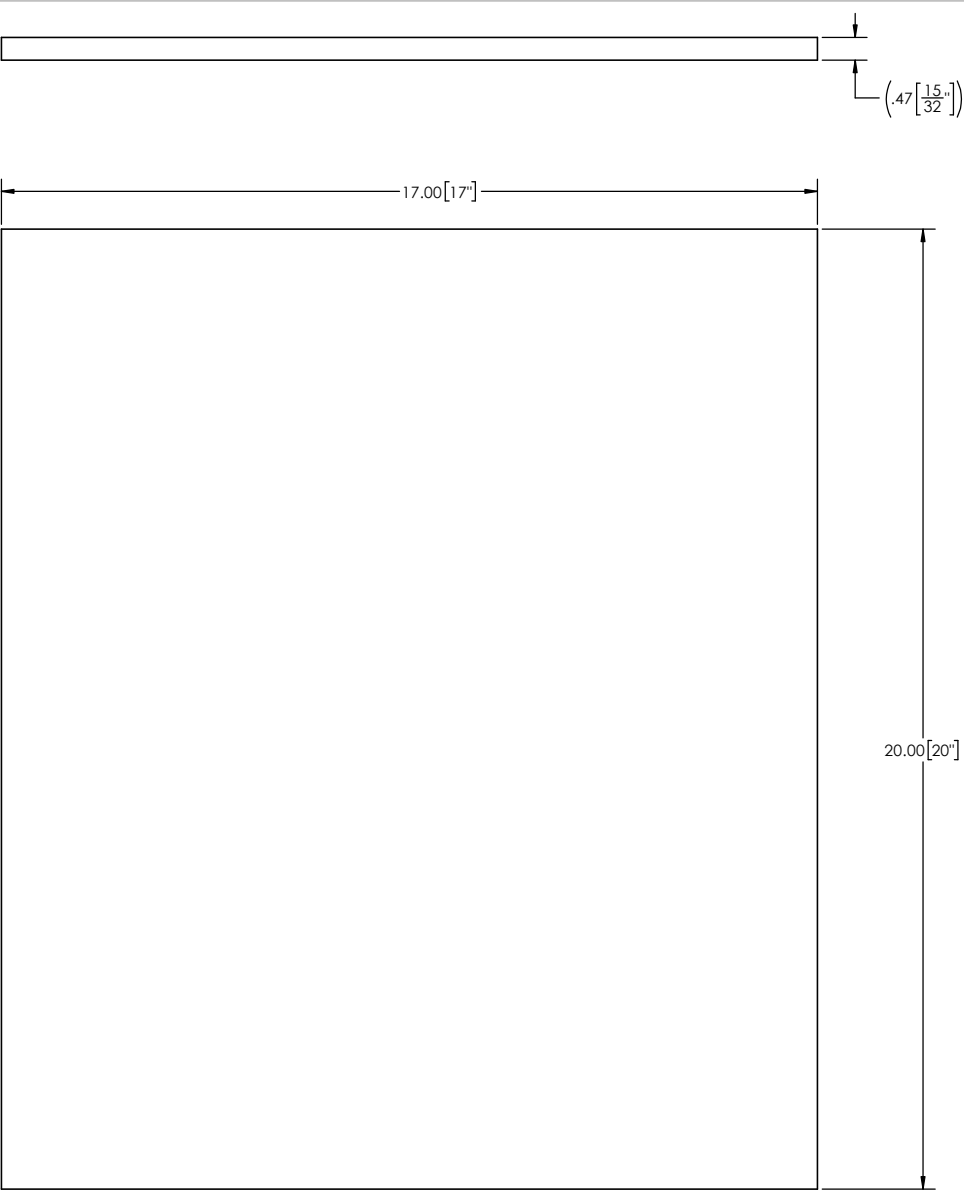
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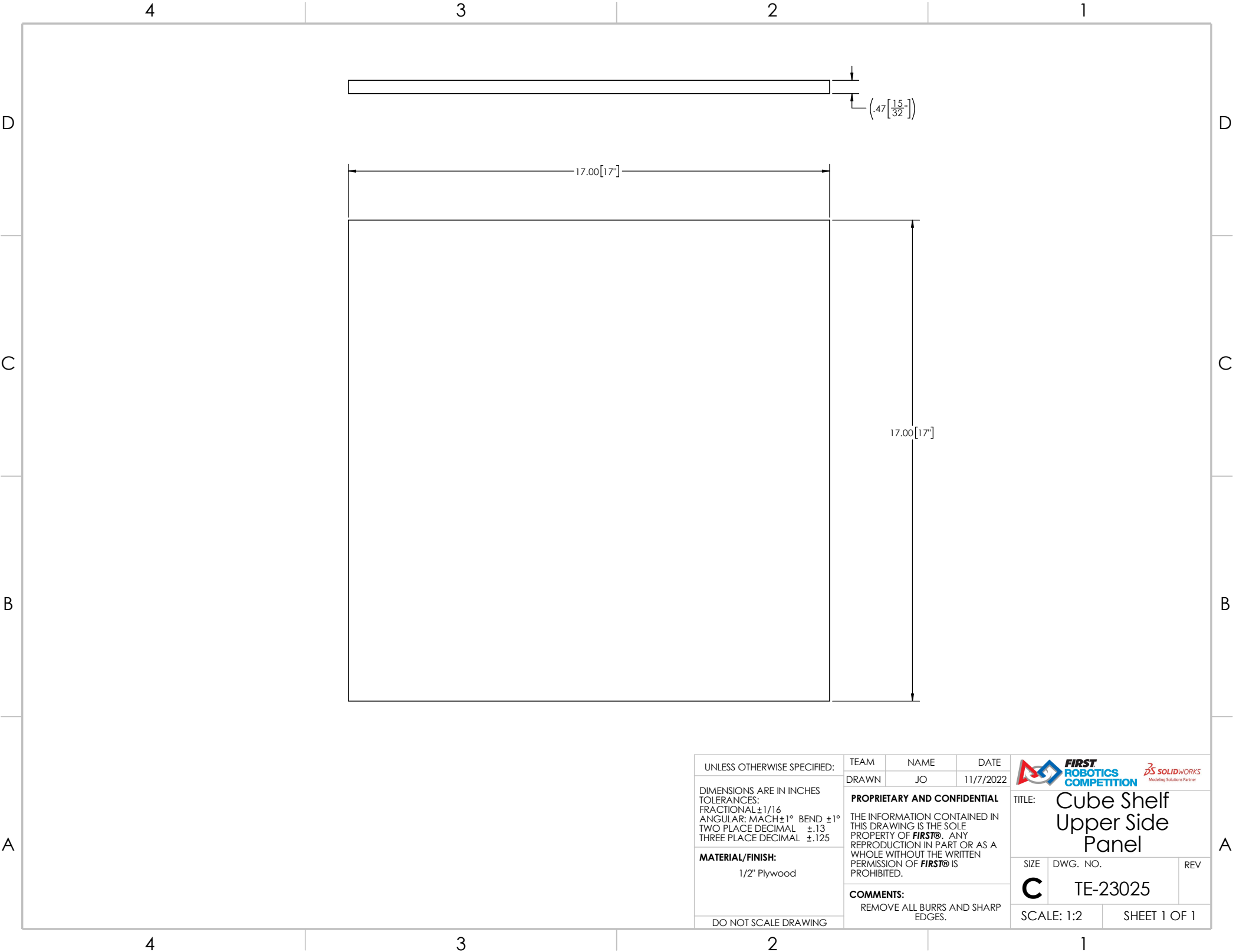
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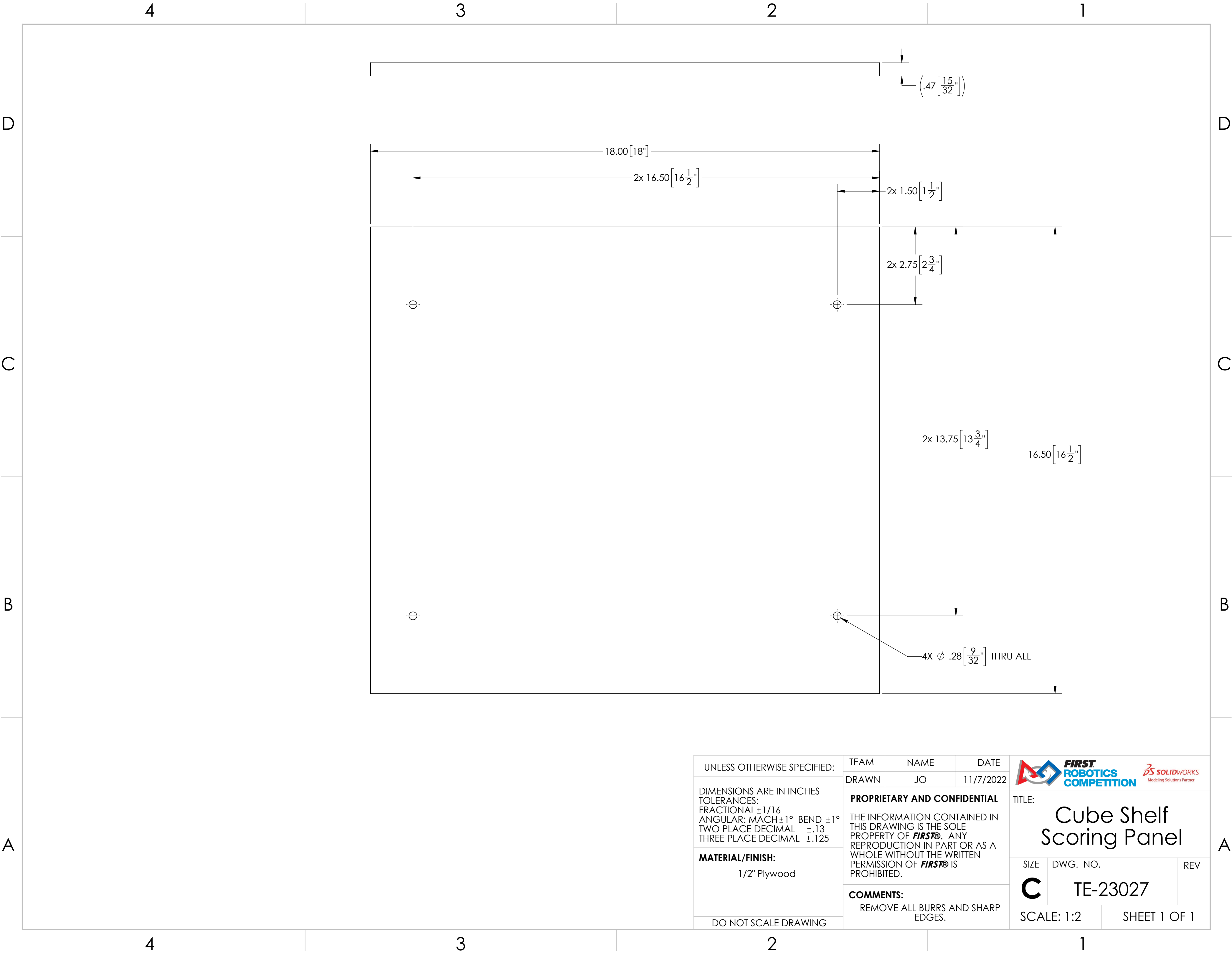
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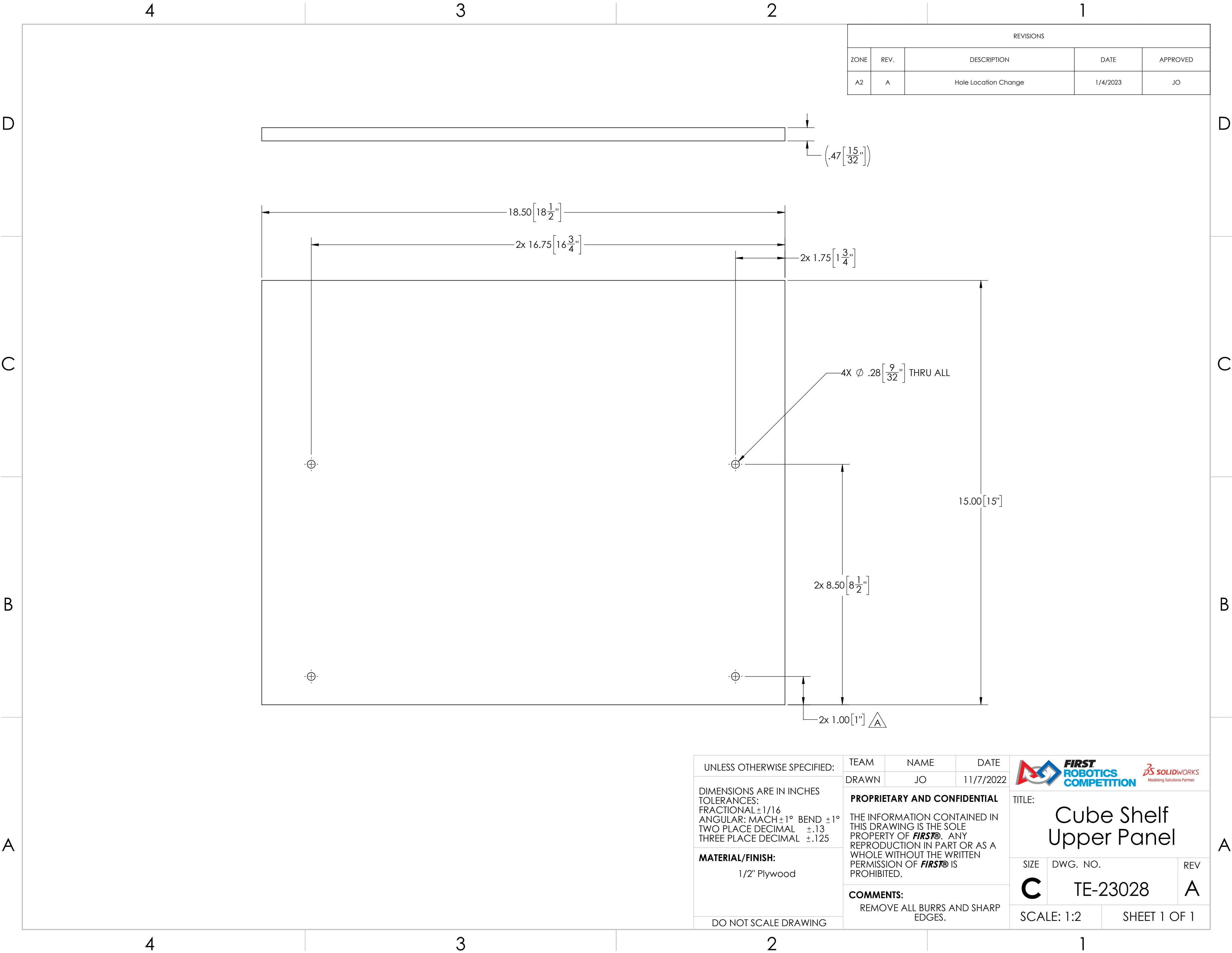
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: 1/2" Plywood COMMENTS: REMOVE ALL BURRS AND SHARP EDGES. DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	11/7/2022		
	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf Lower Side Panel	
	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.			SIZE	DWG. NO.
C TE-23024					
SCALE: 1:2				SHEET 1 OF 1	

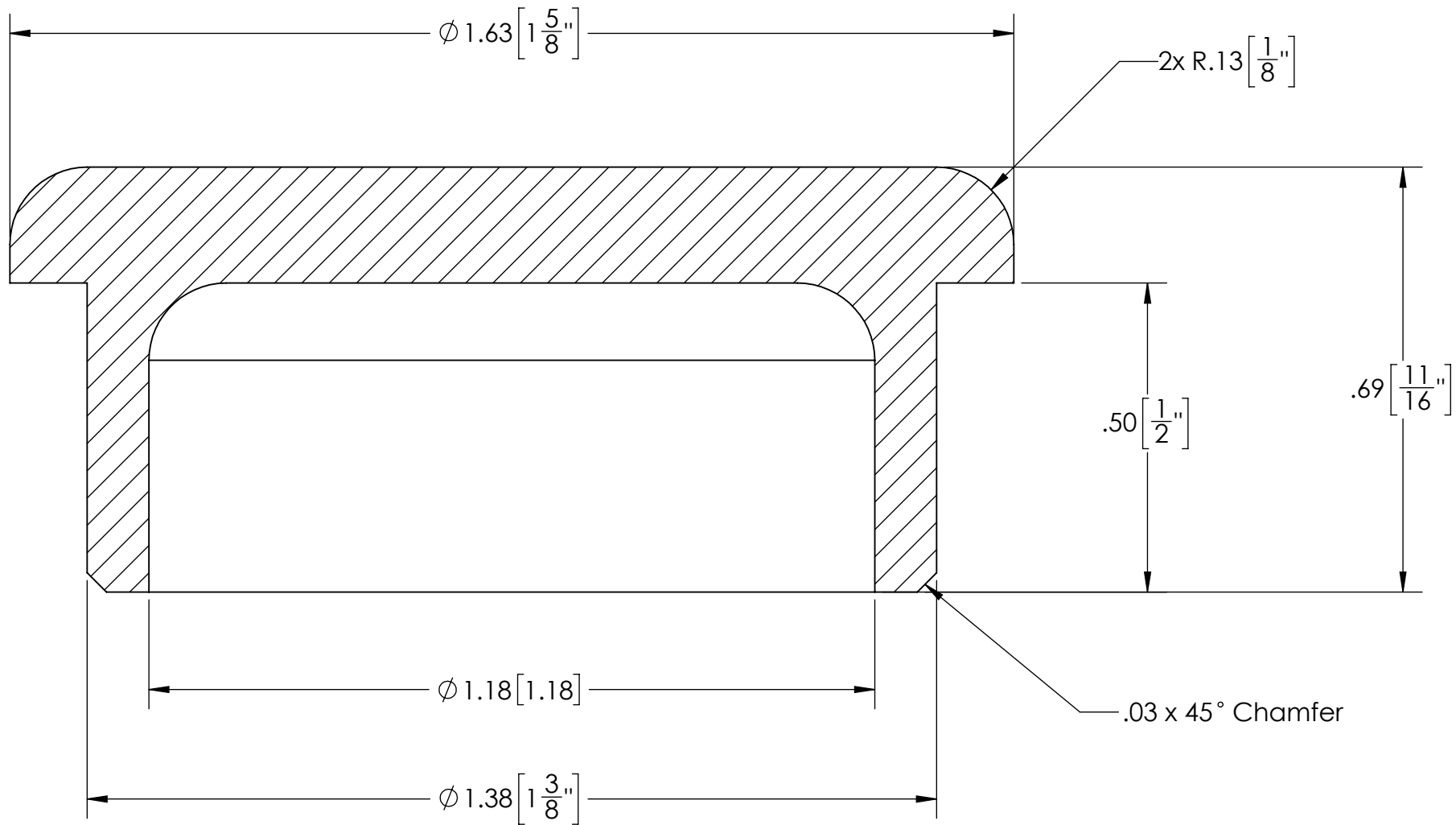
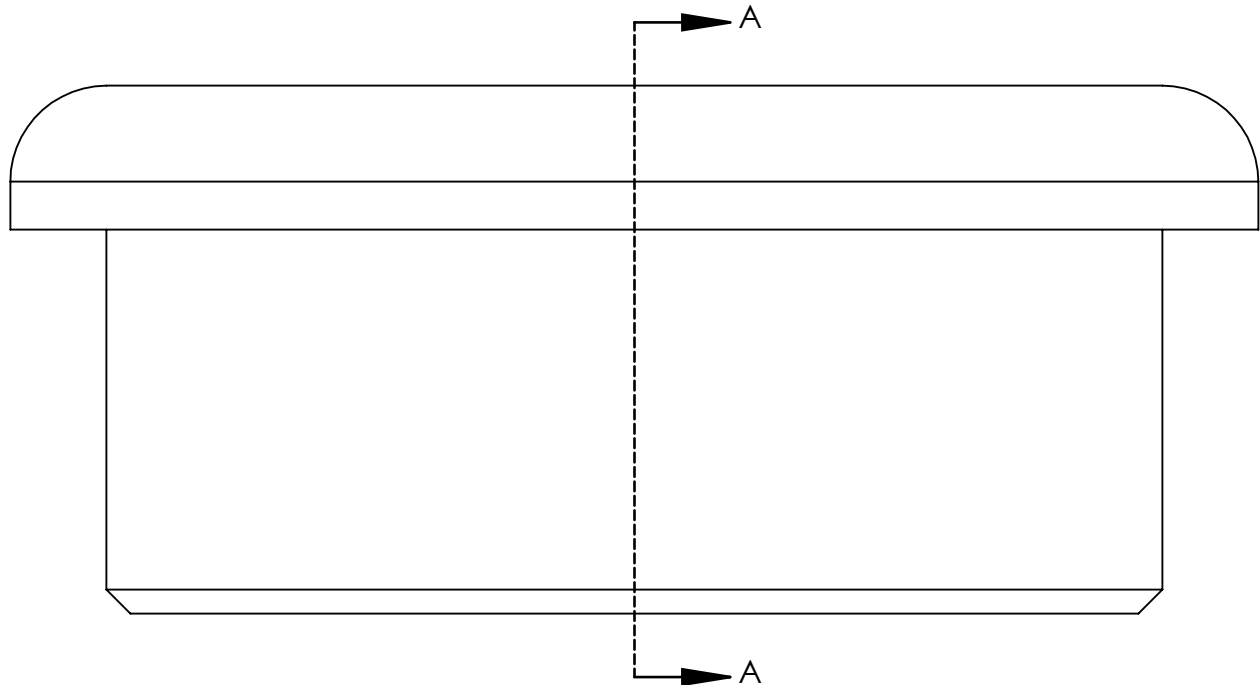




UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$ MATERIAL/FINISH: 1/2" Plywood DO NOT SCALE DRAWING	TEAM	NAME	DATE	 	
	DRAWN	JO	11/7/2022		
	PROPRIETARY AND 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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			TITLE: Cube Shelf Upper Side Panel	
SIZE		DWG. NO.		REV	
C		TE-23025			
SCALE: 1:2			SHEET 1 OF 1		



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125	TEAM	NAME	DATE	<div></div>	
	DRAWN	JO	11/7/2022		
	MATERIAL/FINISH: 1/2" Plywood	PROPRIETARY AND CONFIDENTIAL			TITLE: Cube Shelf Scoring Panel
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.					
DO NOT SCALE DRAWING		COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			SIZE C
			SCALE: 1:2		SHEET 1 OF 1





UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/16 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: DO NOT SCALE DRAWING	TEAM	NAME	DATE	<div><div></div><div>TITLE: <h1>Alternate Pole Cap</h1></div></div>		
	DRAWN	JO	12/21/2022			
	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 PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.				SIZE	DWG. NO.
				C	TE-23029	
				SCALE: 4:1		SHEET 1 OF 1