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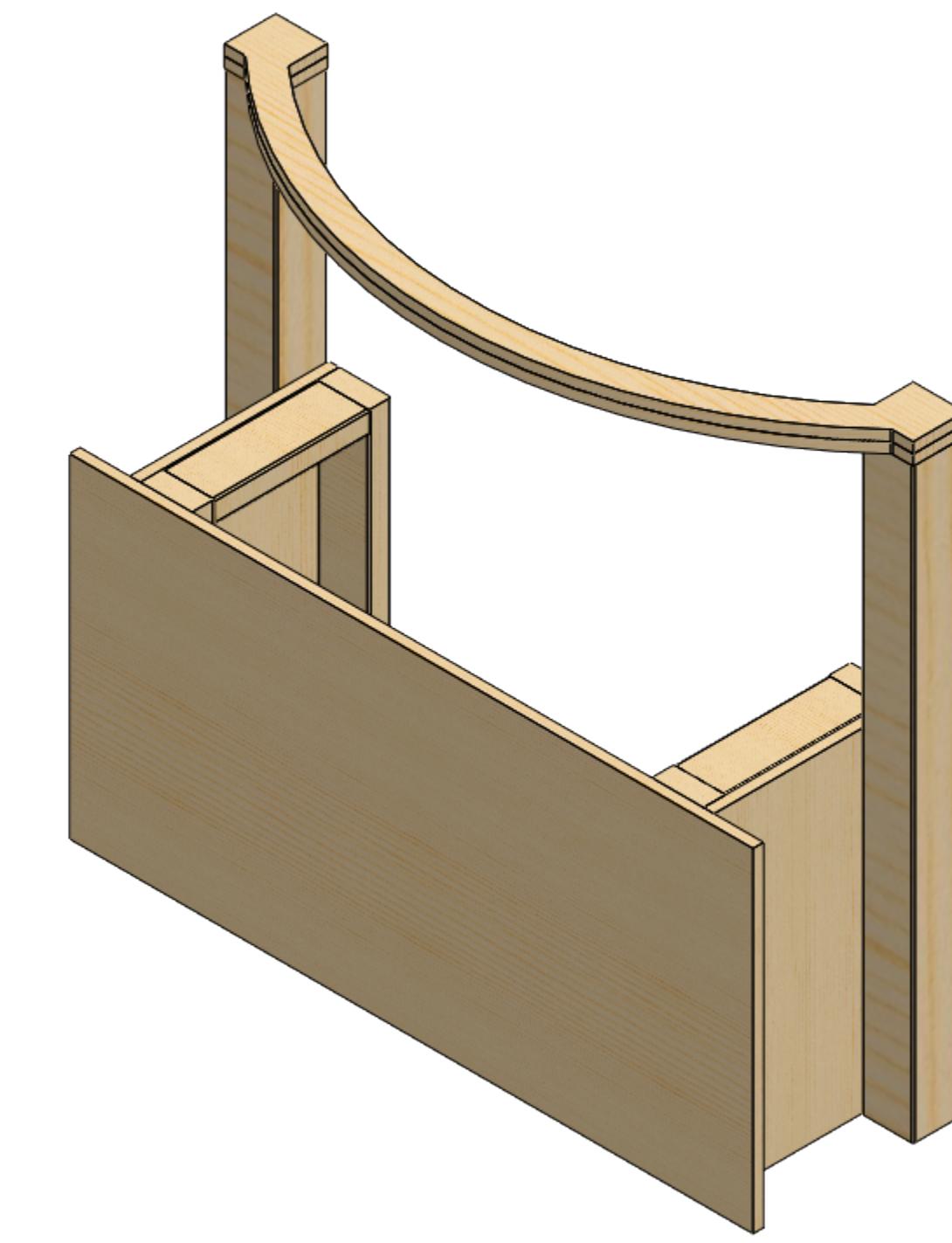
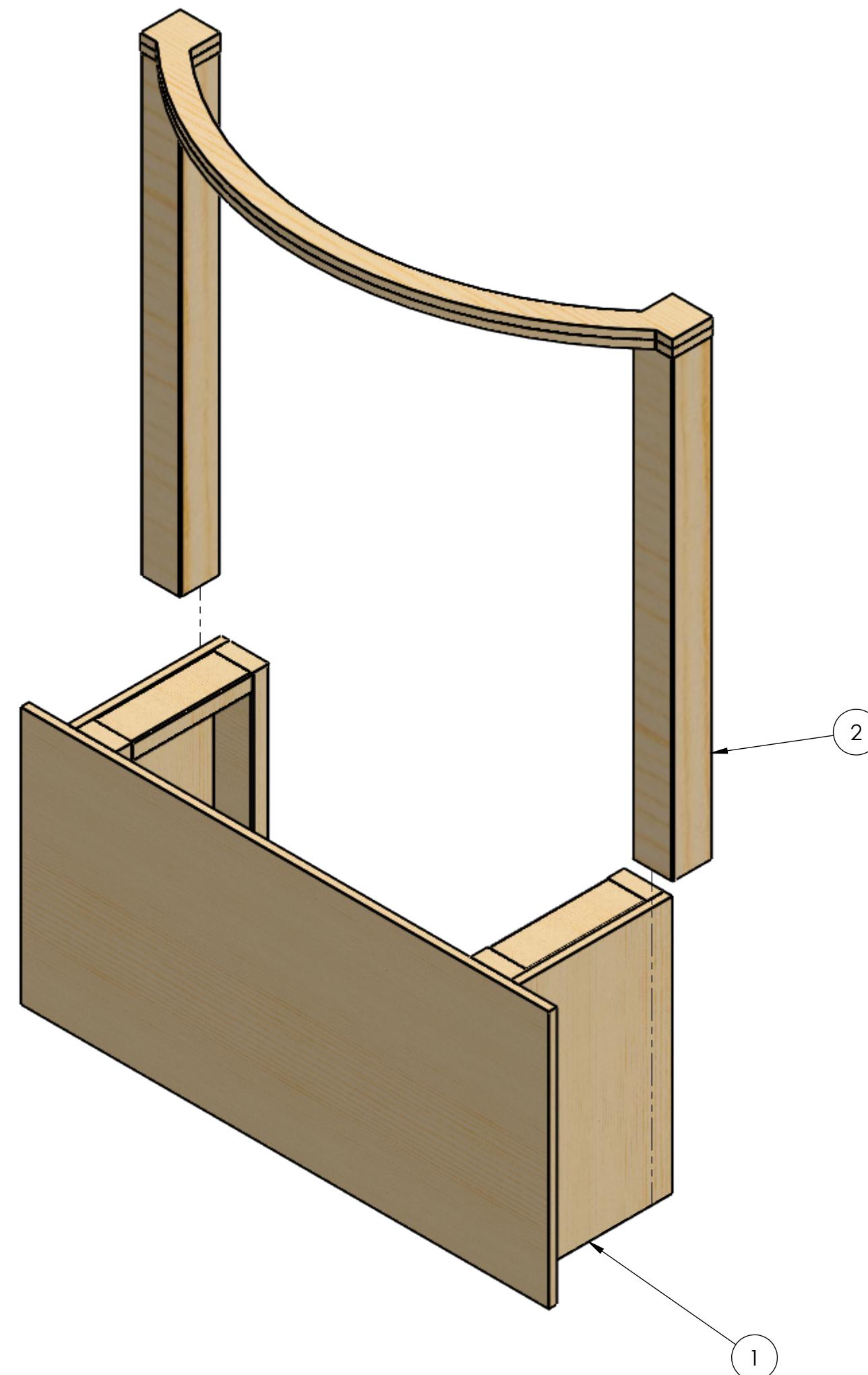
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Hardware Needed:
#8 x 2" Long Screw - Qty 10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-22010	Hub - Simple Build - Fender Assembly	1
2	TE-22020-Single	Hub - Simple Build - Lower Hub Assembly - Single	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:

TEAM	NAME	DATE	 FIRST ROBOTICS COMPETITION	
DRAWN	KAMC	1/3/2022		
PROPRIETARY AND CONFIDENTIAL				
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SIZE	DWG. NO.	REV	C TE-22001-Single	
SCALE: 1:8	SHEET 1 OF 3			

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Note: If you are planning to disassemble frequently, you may want to consider using bolted connections instead of screws. It is helpful to consider ability to move assembly through doors before fastening sub-assemblies together.

DO NOT SCALE DRAWING

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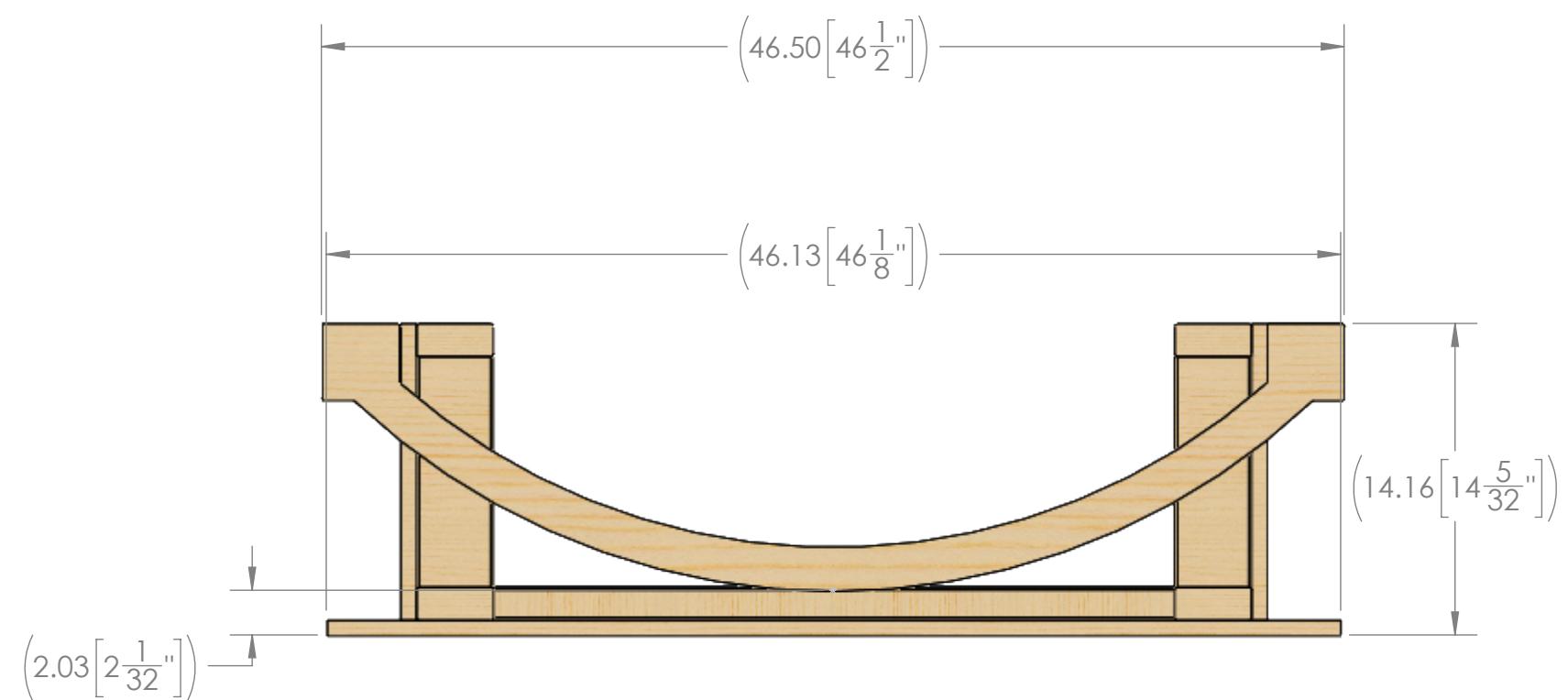
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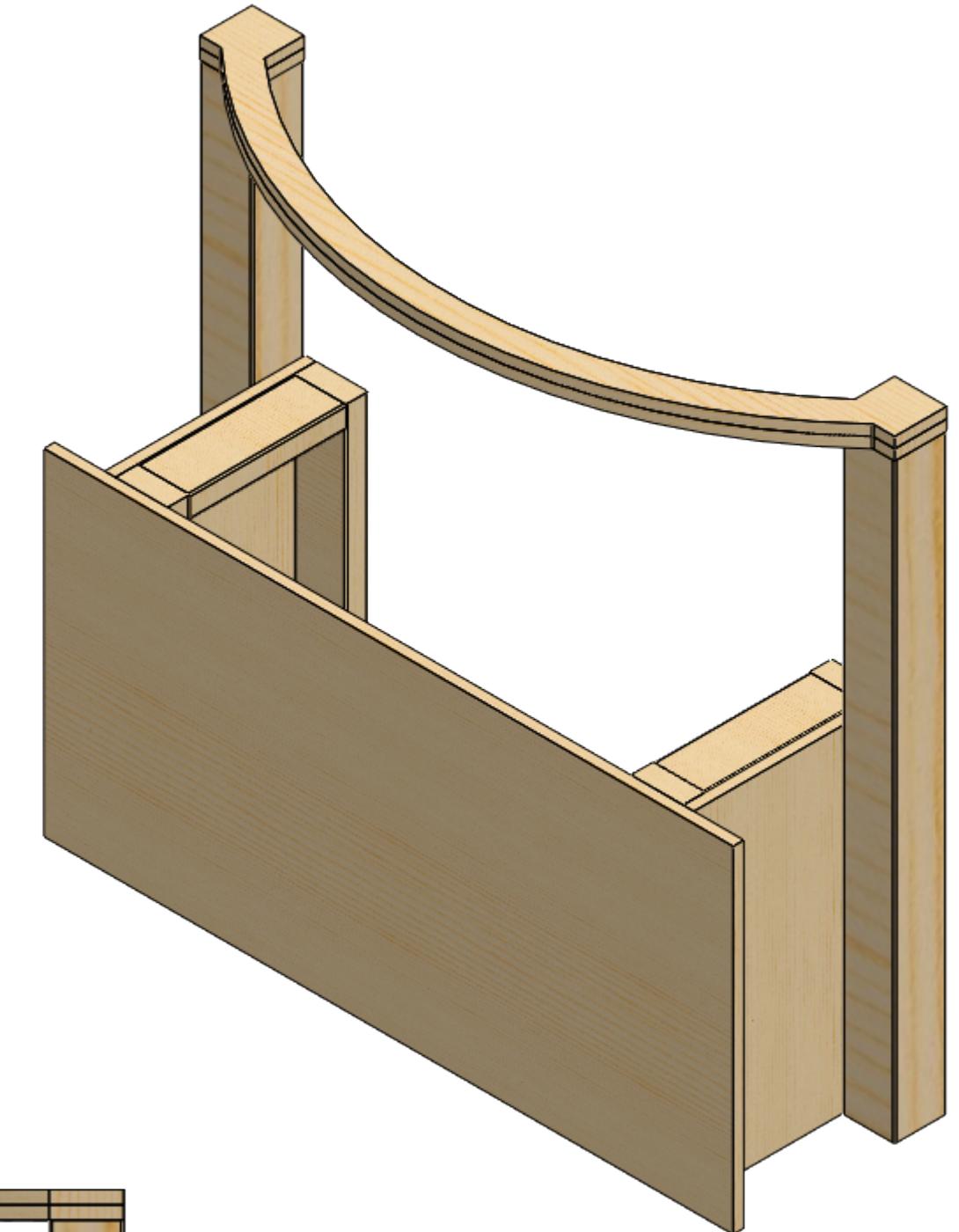
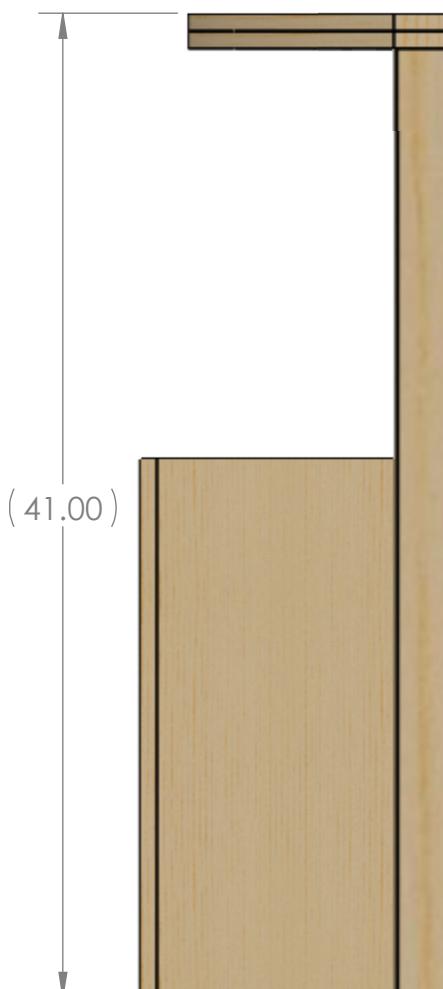
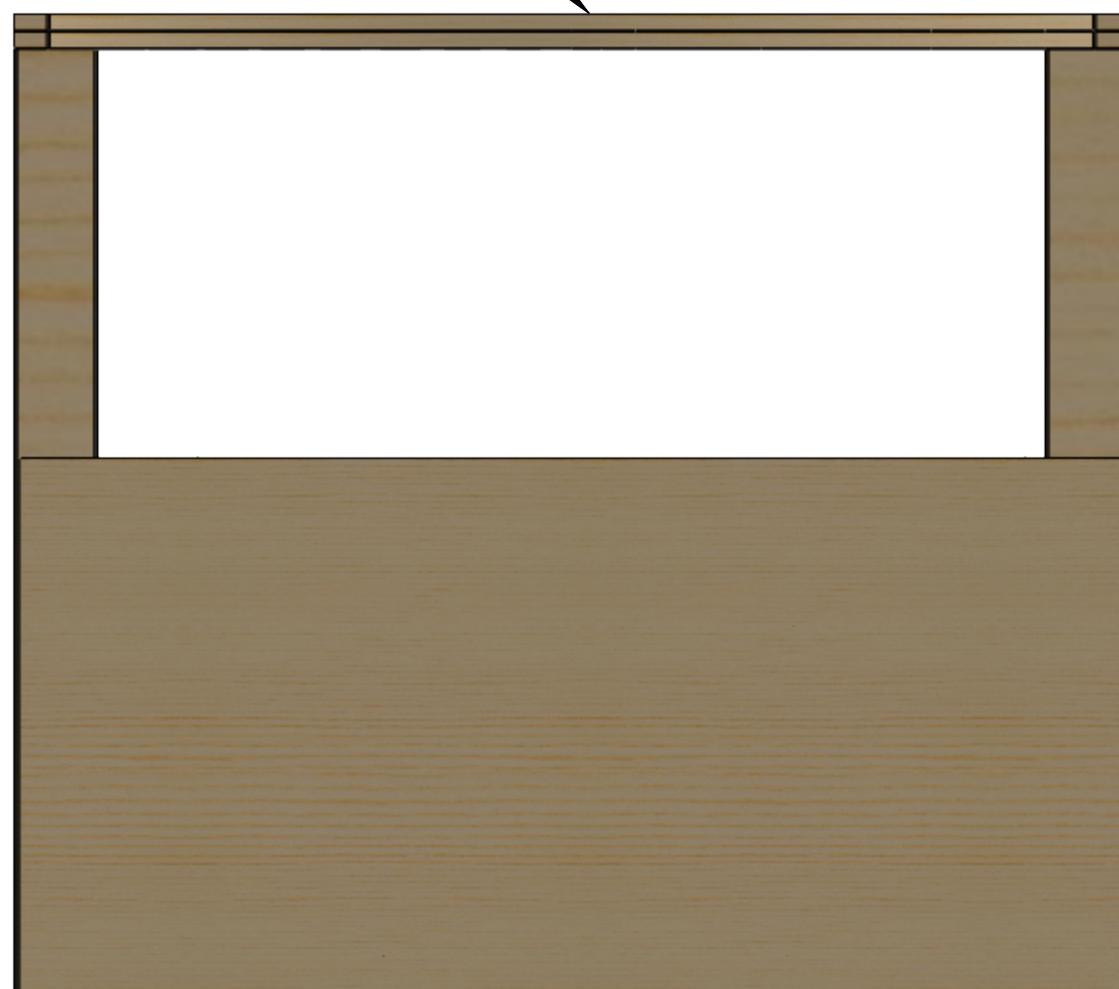
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Note: On Field, there is a protrusion in approximately this location. See GE-22300 for details



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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
	C	TE-22001-Single	
COMMENTS:	REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING	SCALE: 1:8	SHEET 2 OF 3	

FIRST
ROBOTICS
COMPETITION

SOLIDWORKS
Modeling Solutions Partner

TITLE:
Hub - Simple Build - 1/4
Lower Hub + 1/4
Fender Assembly

SIZE DWG. NO. REV
C TE-22001-Single

SCALE: 1:8 SHEET 2 OF 3

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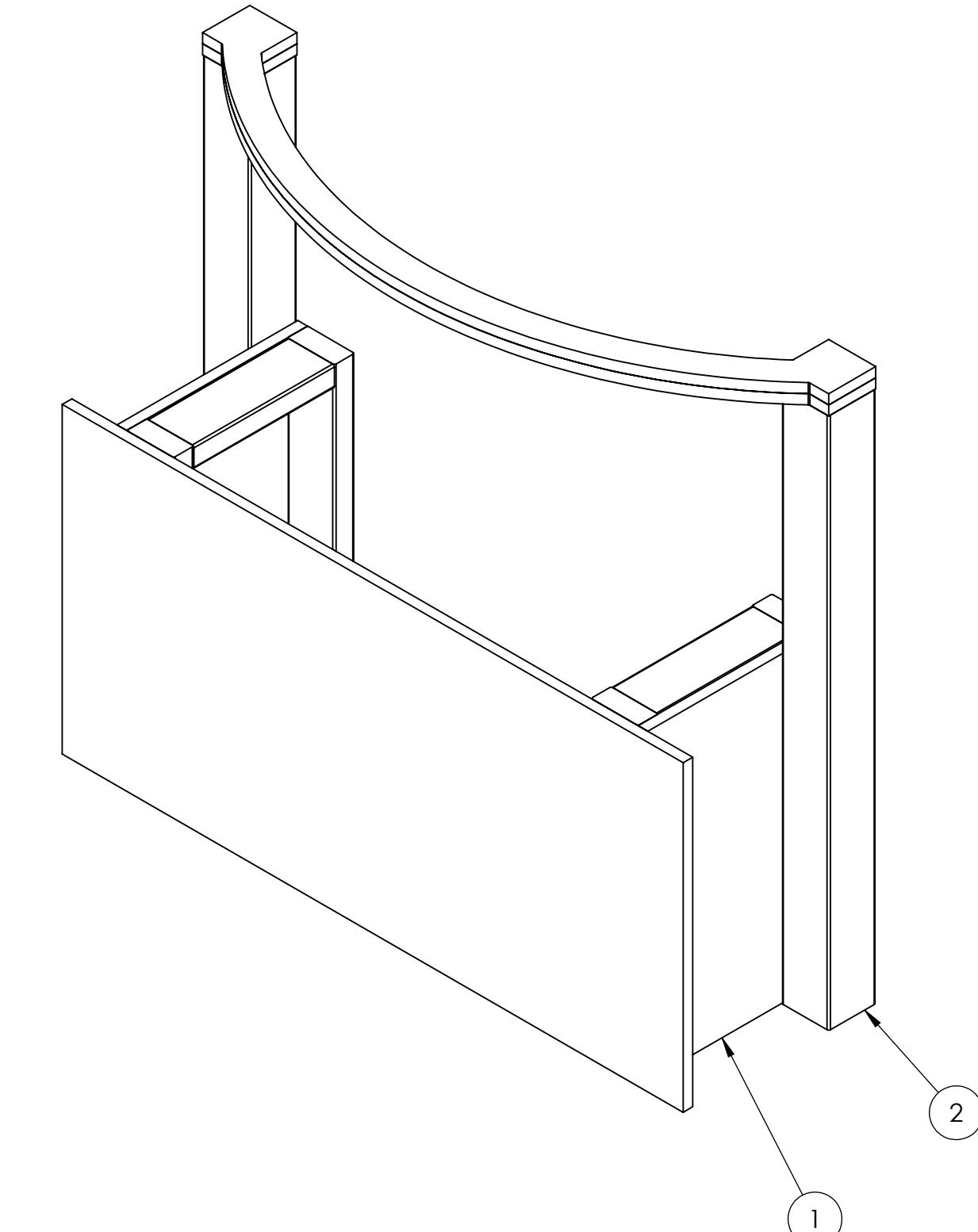
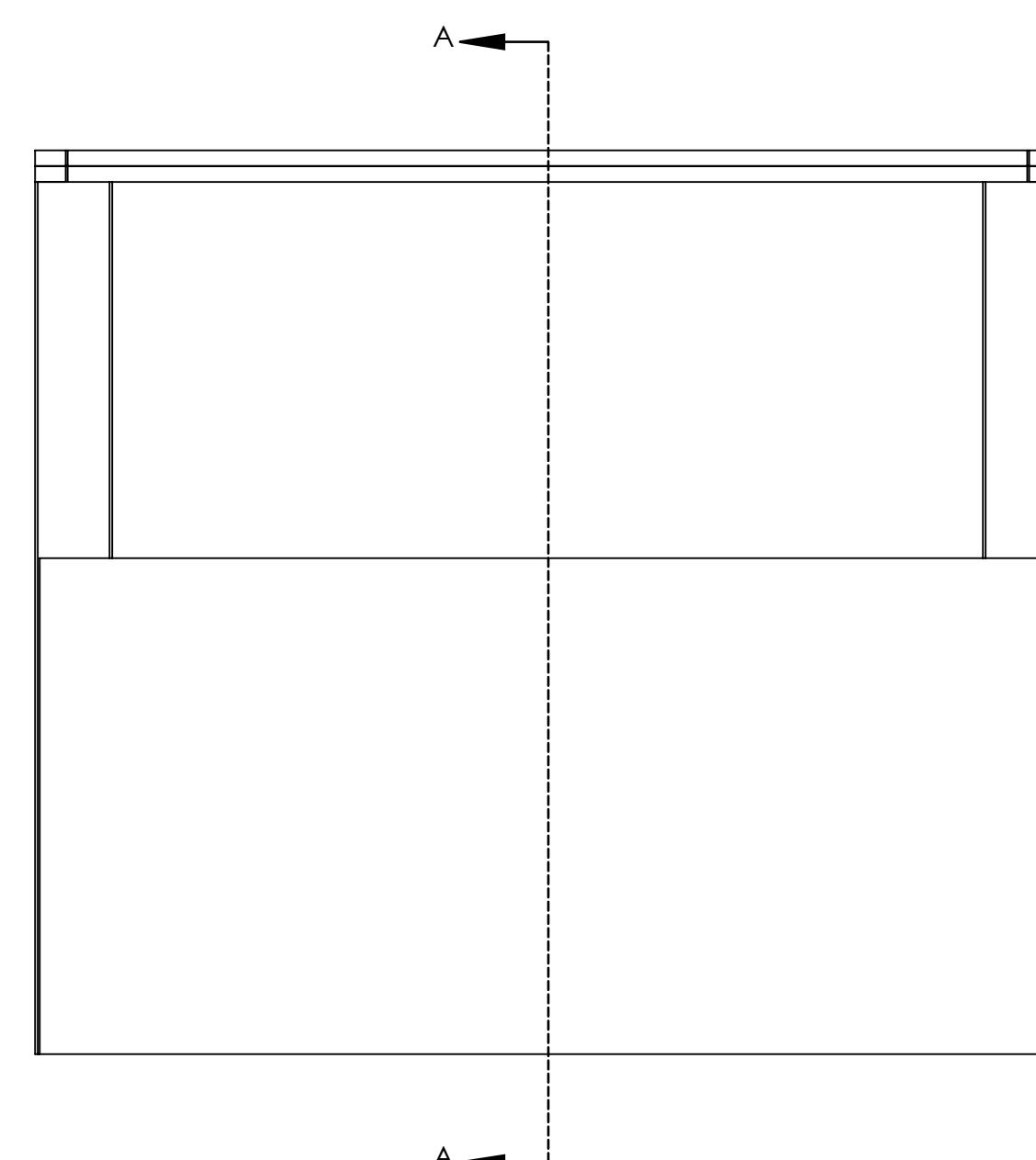
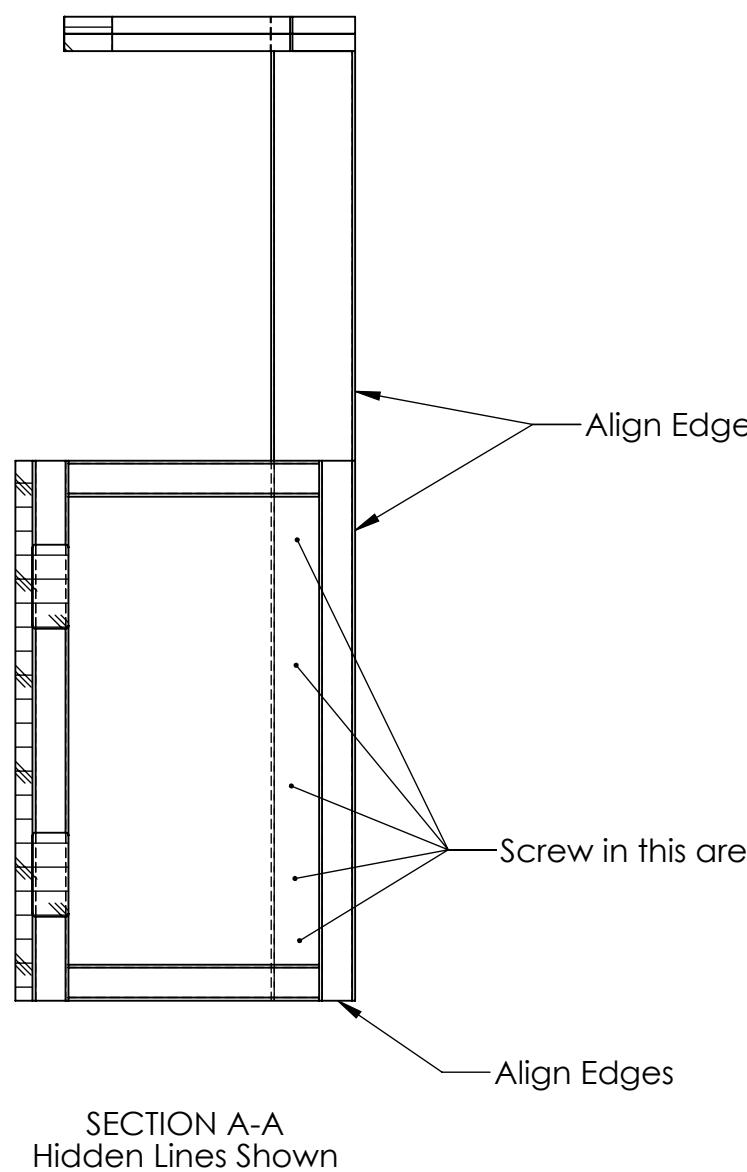
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Step 1:



1. Align (2) to (1), as shown.
2. Connect using 2" Long Screws. It is recommended to 10x screws, 5x screws into each 4" x 4" Lumber on (2), as shown in Section A-A.

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DRAWN	KAMC	1/3/2022	
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
	C	TE-22001-Single	
COMMENTS:		SCALE: 1:8	
REMOVE ALL BURRS AND SHARP EDGES.		SHEET 3 OF 3	
DO NOT SCALE DRAWING			

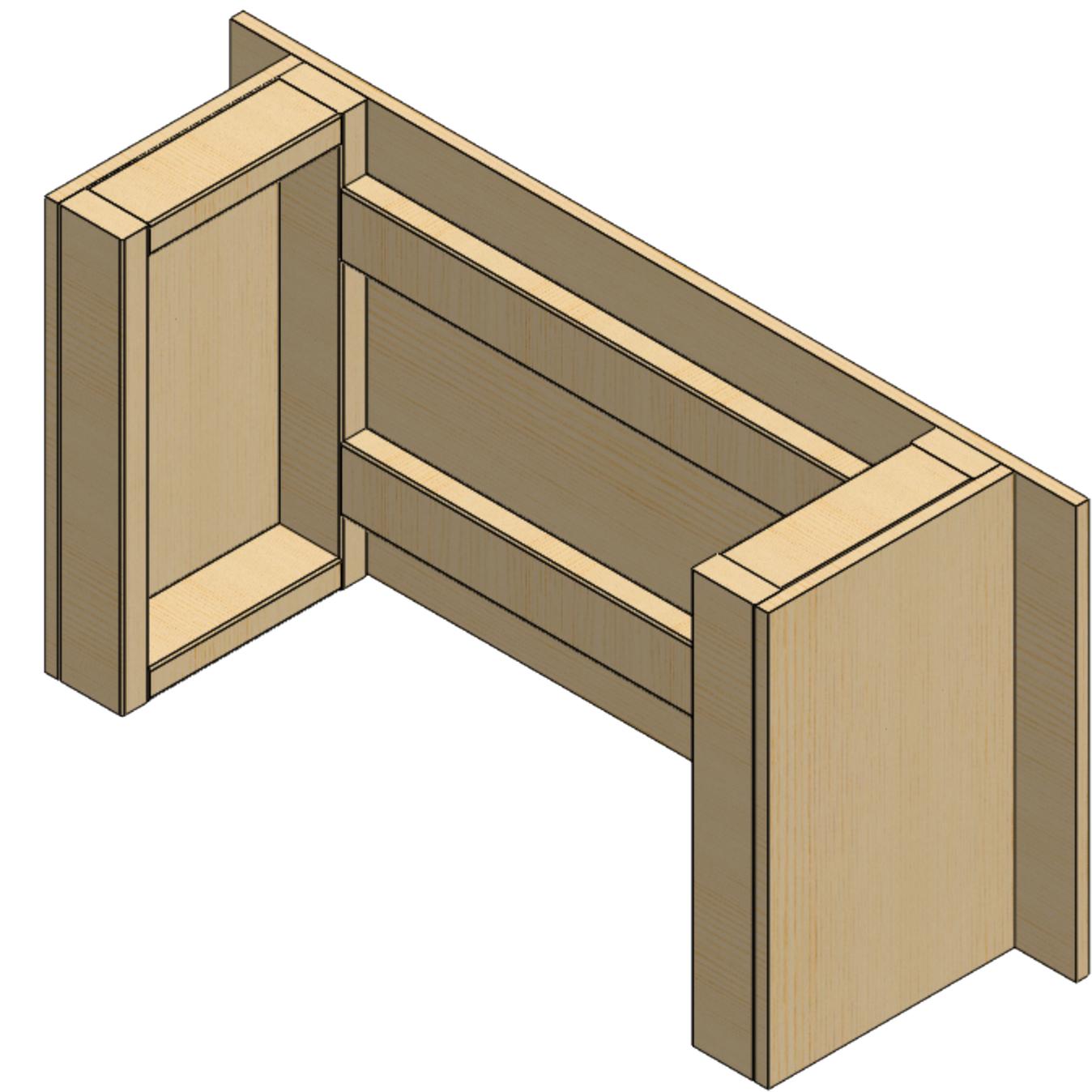
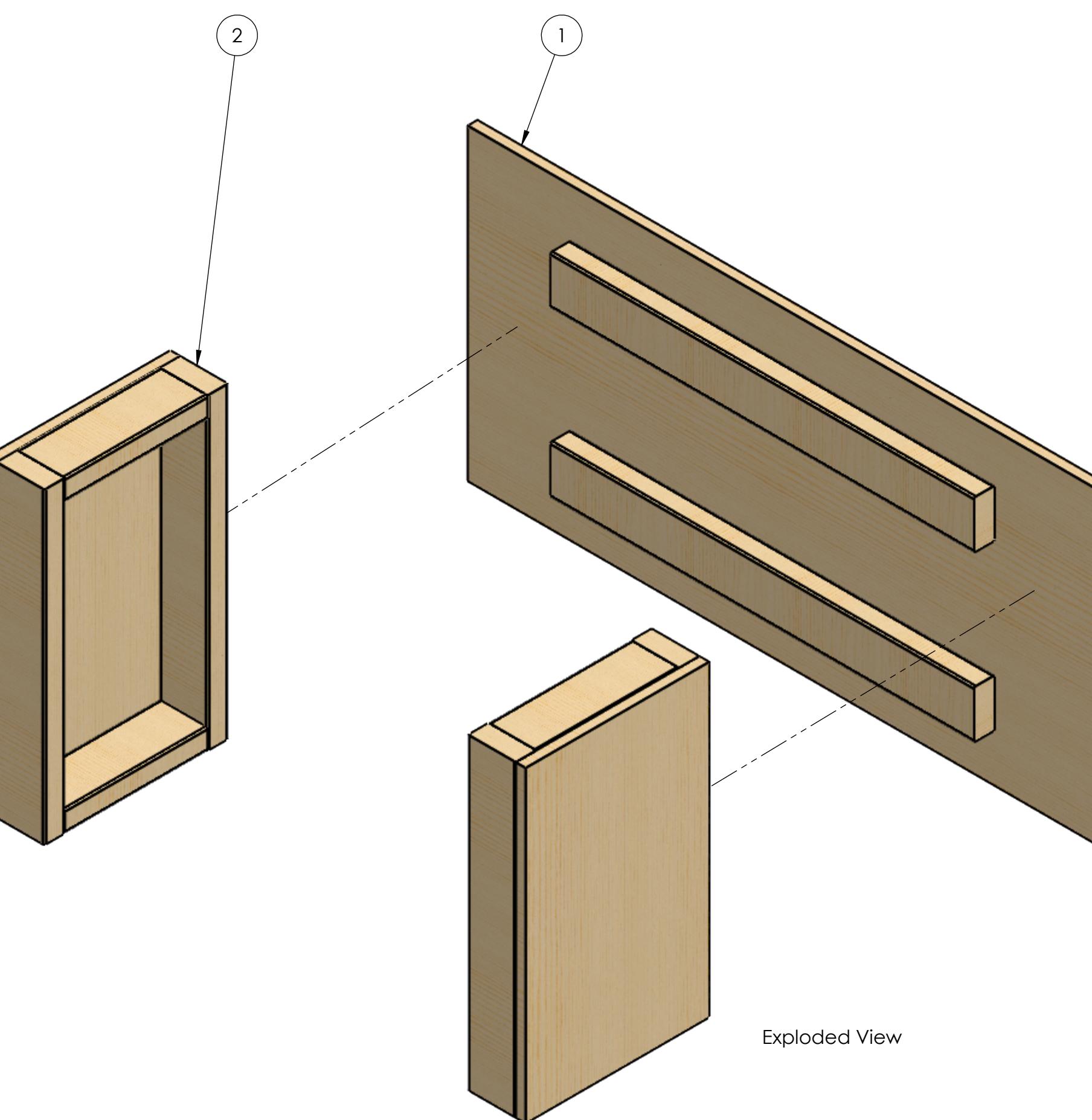
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Hardware Needed:
#8 x 2" Long Screw - Qty 10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-22013	HUB - Basic Build - Fender Front Assembly	1
2	TE-22017	HUB - Basic Build - Fender Side Assembly	2

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:

COMMENTS:
REMOVE ALL BURRS AND SHARP EDGES.

DO NOT SCALE DRAWING

TEAM NAME DATE
DRAWN KAMC 12/30/2021

FIRST ROBOTICS COMPETITION DS SOLIDWORKS Modeling Solutions Partner

TITLE: Hub - Simple Build - Fender Assembly

SIZE DWG. NO. REV
C TE-22010

SCALE: 1:6 SHEET 1 OF 3

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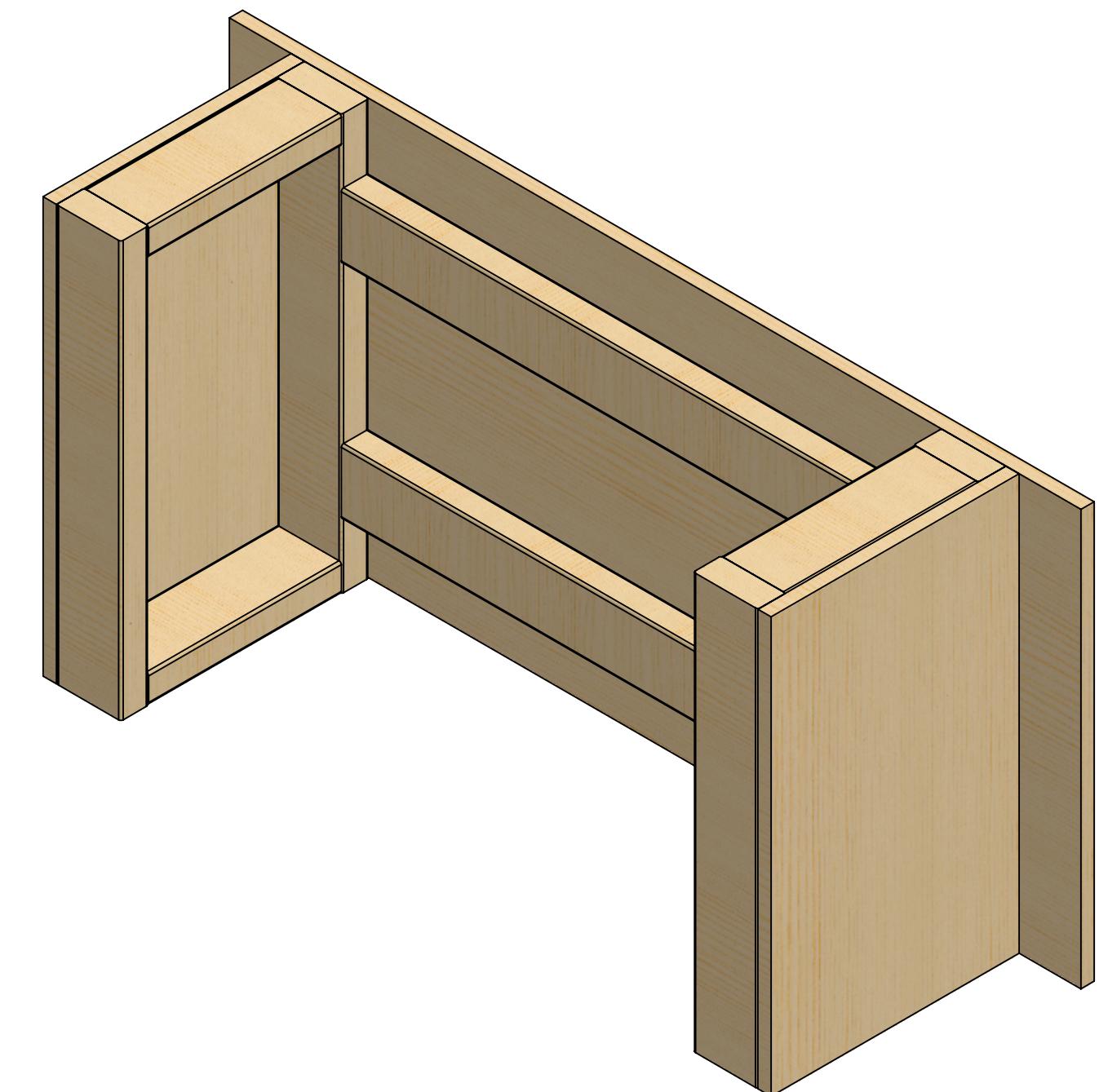
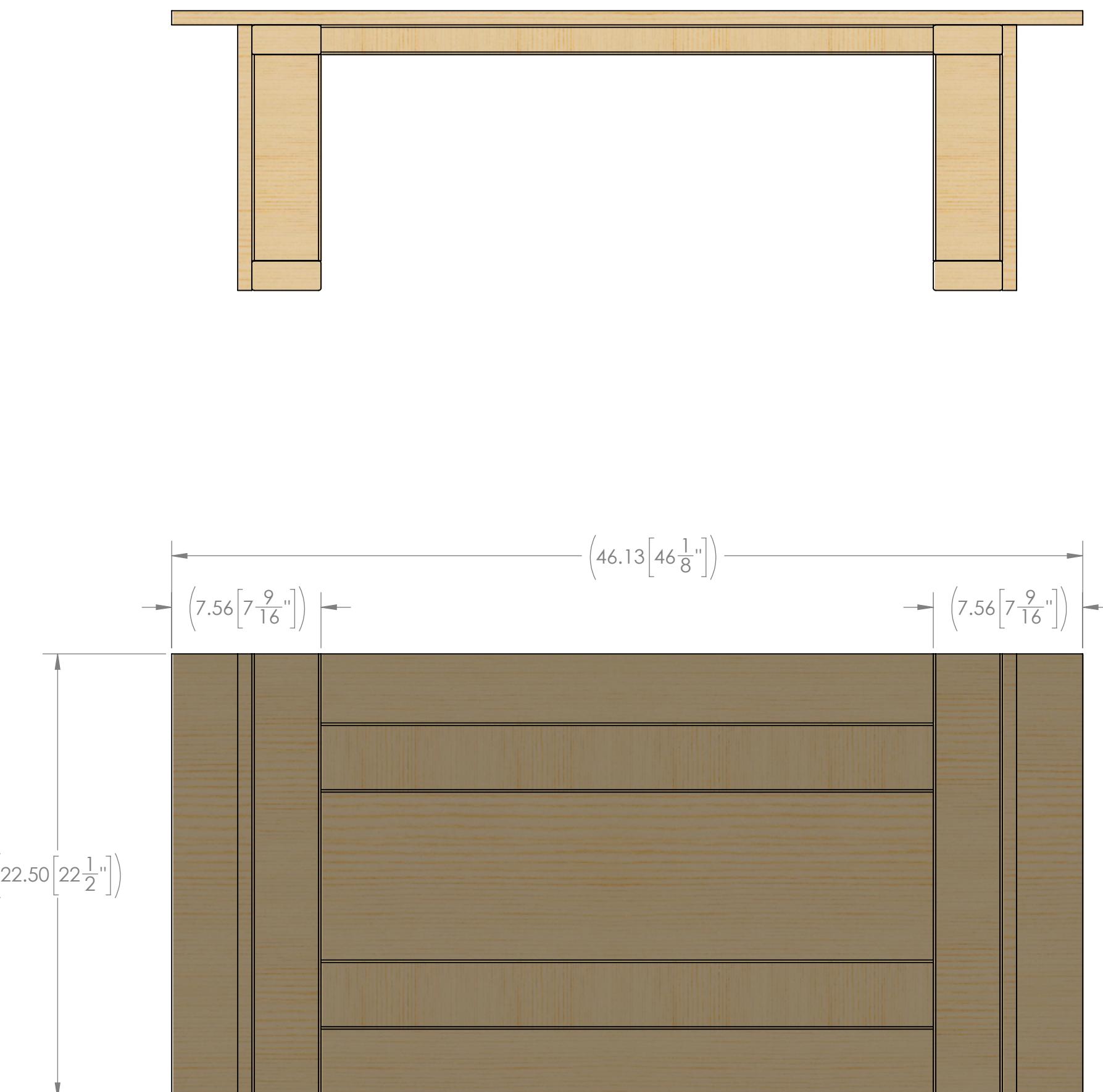
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DRAWN	KAMC	12/30/2021	
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MATERIAL/FINISH:			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			
 FIRST ROBOTICS COMPETITION  SOLIDWORKS Modeling Solutions Partner			
TITLE: Hub - Simple Build - Fender Assembly			
SIZE DWG. NO. REV			
C TE-22010			
SCALE: 1:6 SHEET 2 OF 3			

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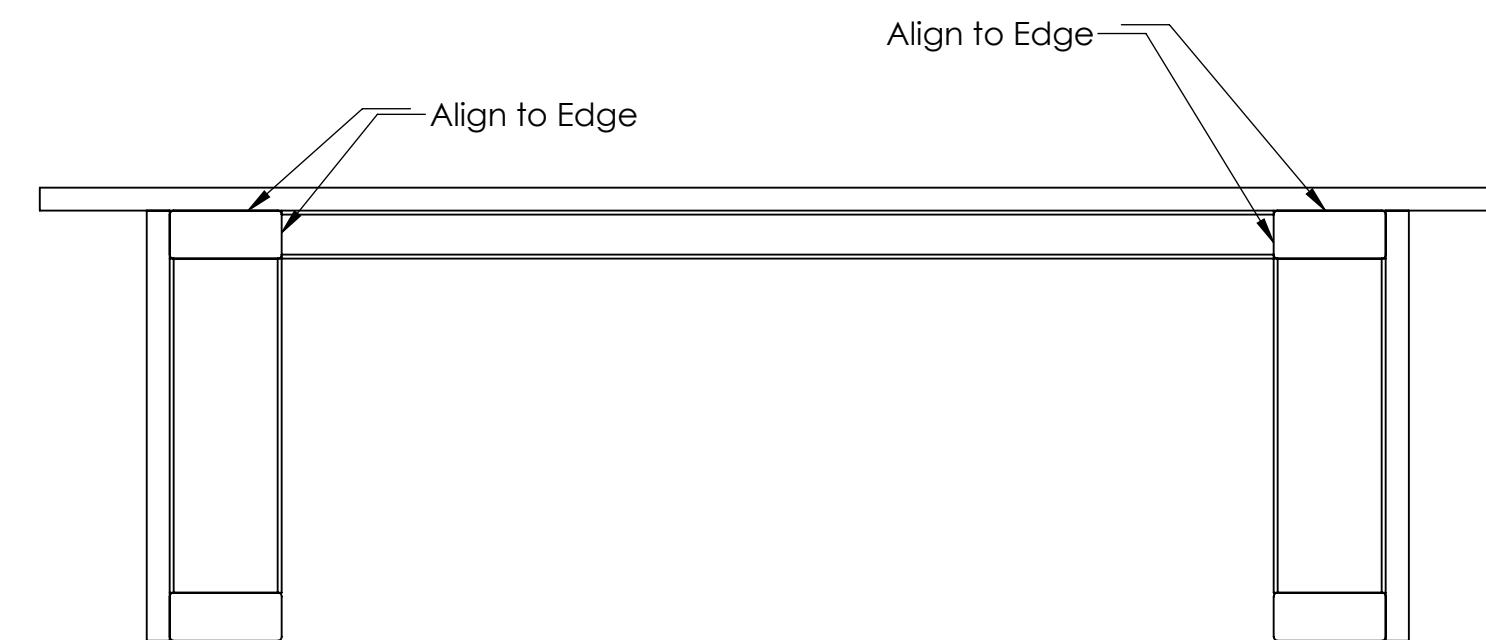
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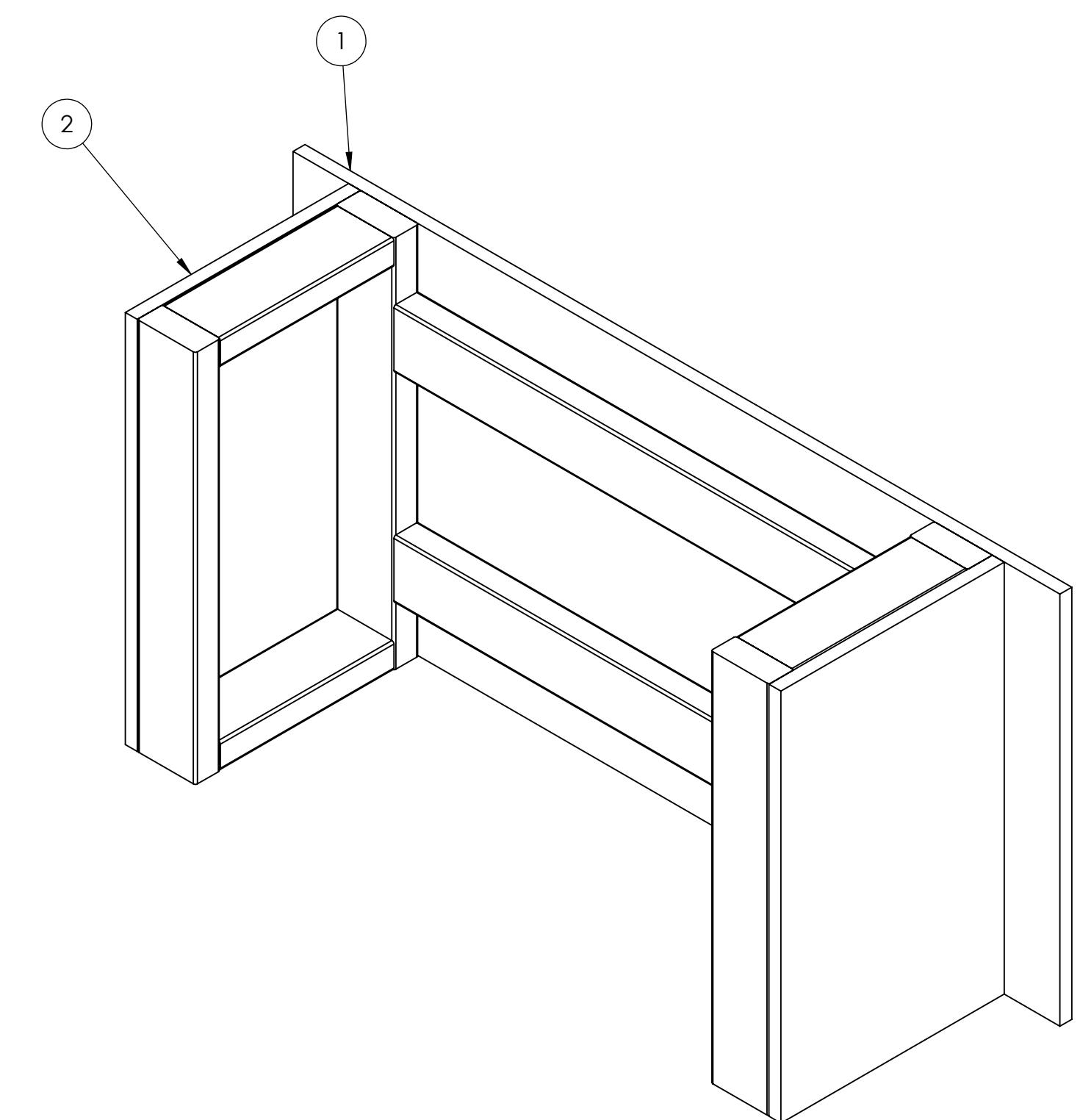
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Step 1



Step 1:

1. Align 2x (2) to (1) as shown.
2. Connect using 2" long screws. It is recommended to use 5x screws into each (2).



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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
	C	TE-22010	
COMMENTS:		SCALE: 1:6	
REMOVE ALL BURRS AND SHARP EDGES.		SHEET 3 OF 3	
DO NOT SCALE DRAWING			

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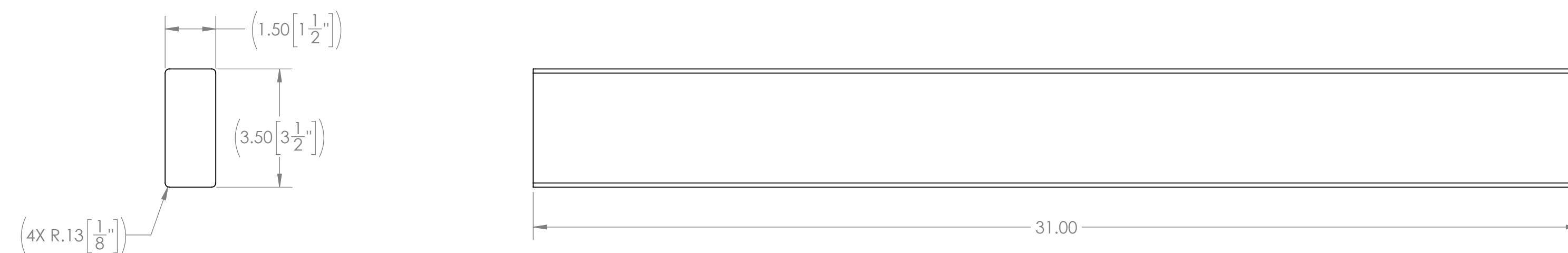
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	KAMC	12/29/2021
PROPRIETARY AND CONFIDENTIAL			
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MATERIAL/FINISH: 2"x4" Lumber	SIZE	DWG. NO.	REV
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.	C	TE-22011	
DO NOT SCALE DRAWING	SCALE: 1:3	SHEET 1 OF 1	

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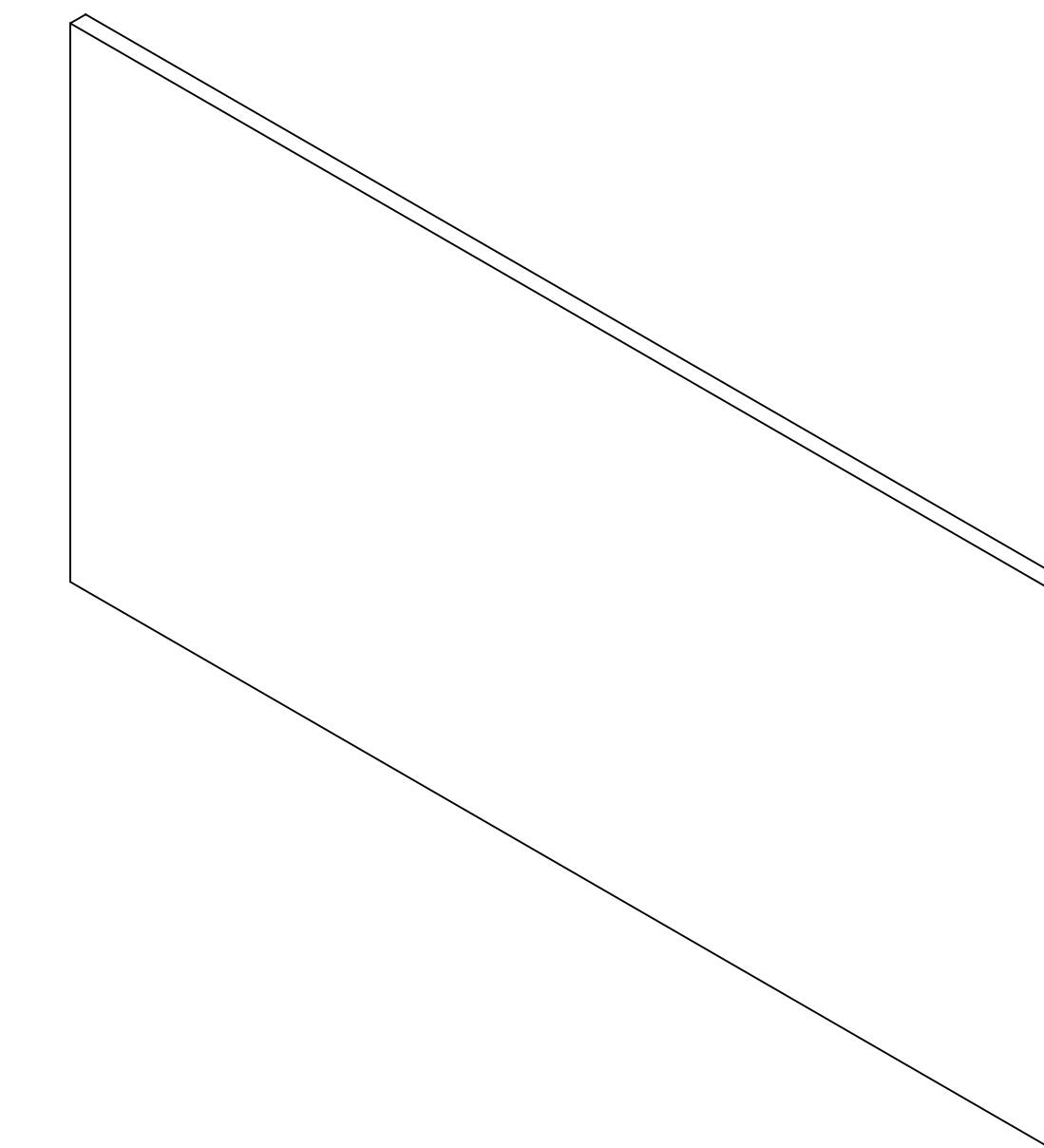
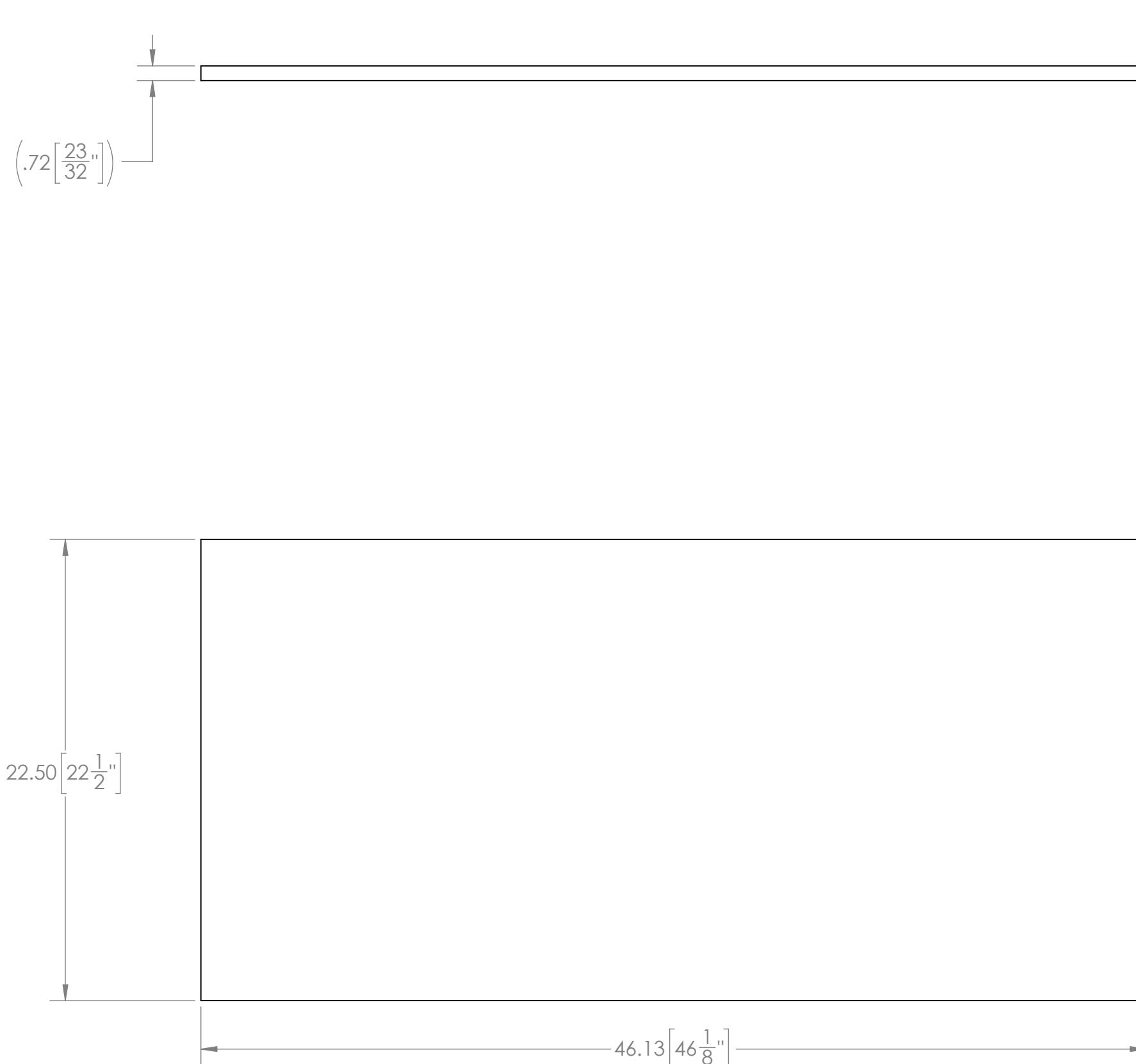
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	KAMC	12/29/2021
PROPRIETARY AND CONFIDENTIAL			
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MATERIAL/FINISH: 3/4" Plywood	SIZE	DWG. NO.	REV
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.	C	TE-22012	
DO NOT SCALE DRAWING	SCALE: 1:6	SHEET 1 OF 1	

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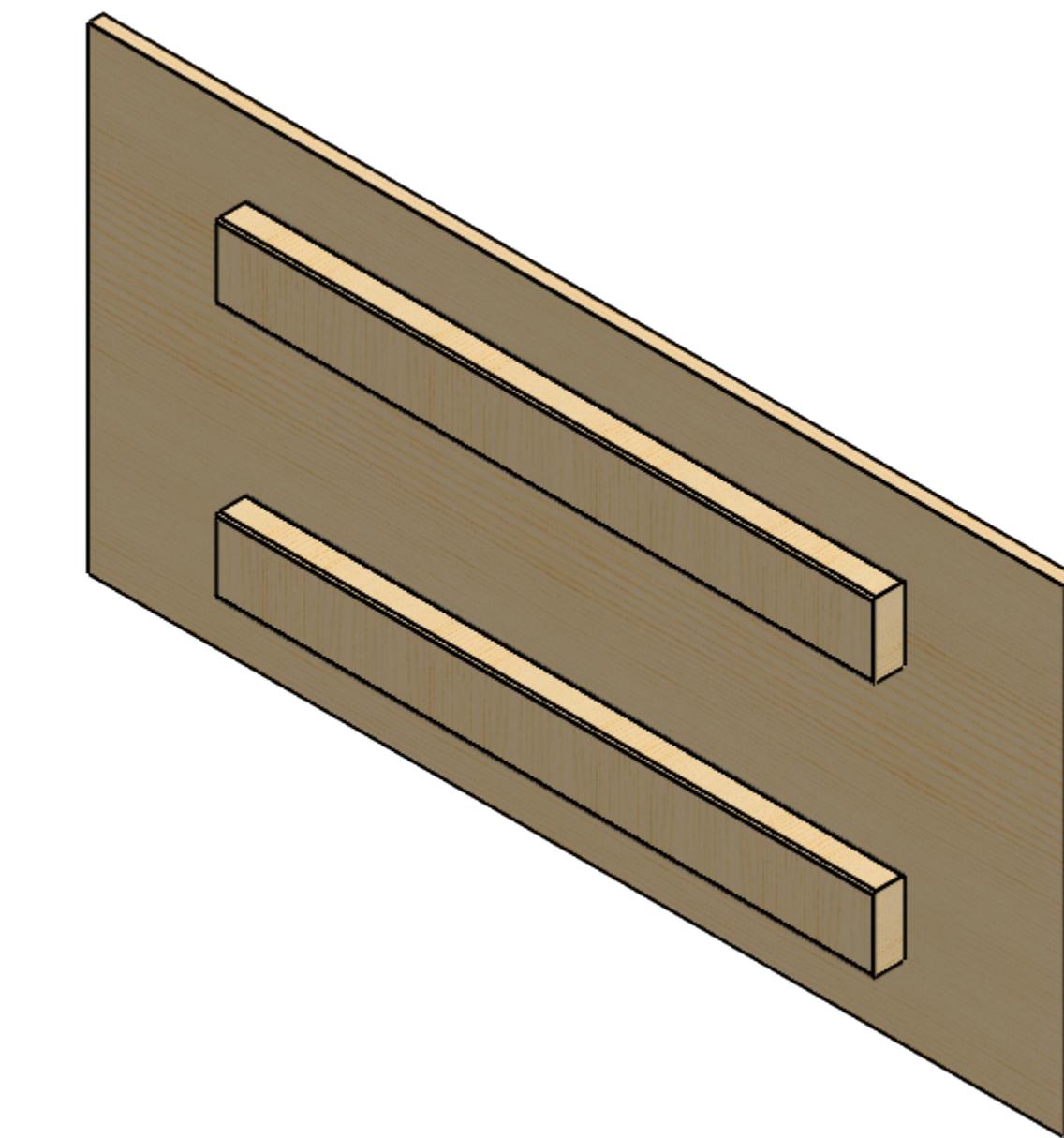
D

A technical diagram illustrating a wooden board assembly. The main board (2) is shown in perspective, featuring a light-colored wood grain and a thin, dark-colored strip running along its top edge. A callout circle labeled '2' points to this strip. A dashed line extends from the top edge of the main board down to a smaller, horizontal board (1) positioned below it. This smaller board also has a similar dark strip along its top edge. Another callout circle labeled '1' points to the top edge of this smaller board. The boards are set against a white background.

Exploded View

Step 1:

1. Align 2x (1) to (2) as shown, using dimensions provided on Sheet 2.
 2. Connect using 2" long screws. It is recommended to use 7x screws into each (1)



Hardware Needed:
#8 x 2" Long Screws - Qty 14

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-22011	HUB - Simple Build - Fender Front Horizontal 2x4	2
2	TE-22012	HUB - Simple Build - Fender Front	1

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGULAR: MACH $\pm 1^\circ$ BEND
TWO PLACE DECIMAL $\pm .1$
THREE PLACE DECIMAL $\pm .01$

MATERIAL/FINISH

DO NOT SCALE DRAWING



COMPETITION

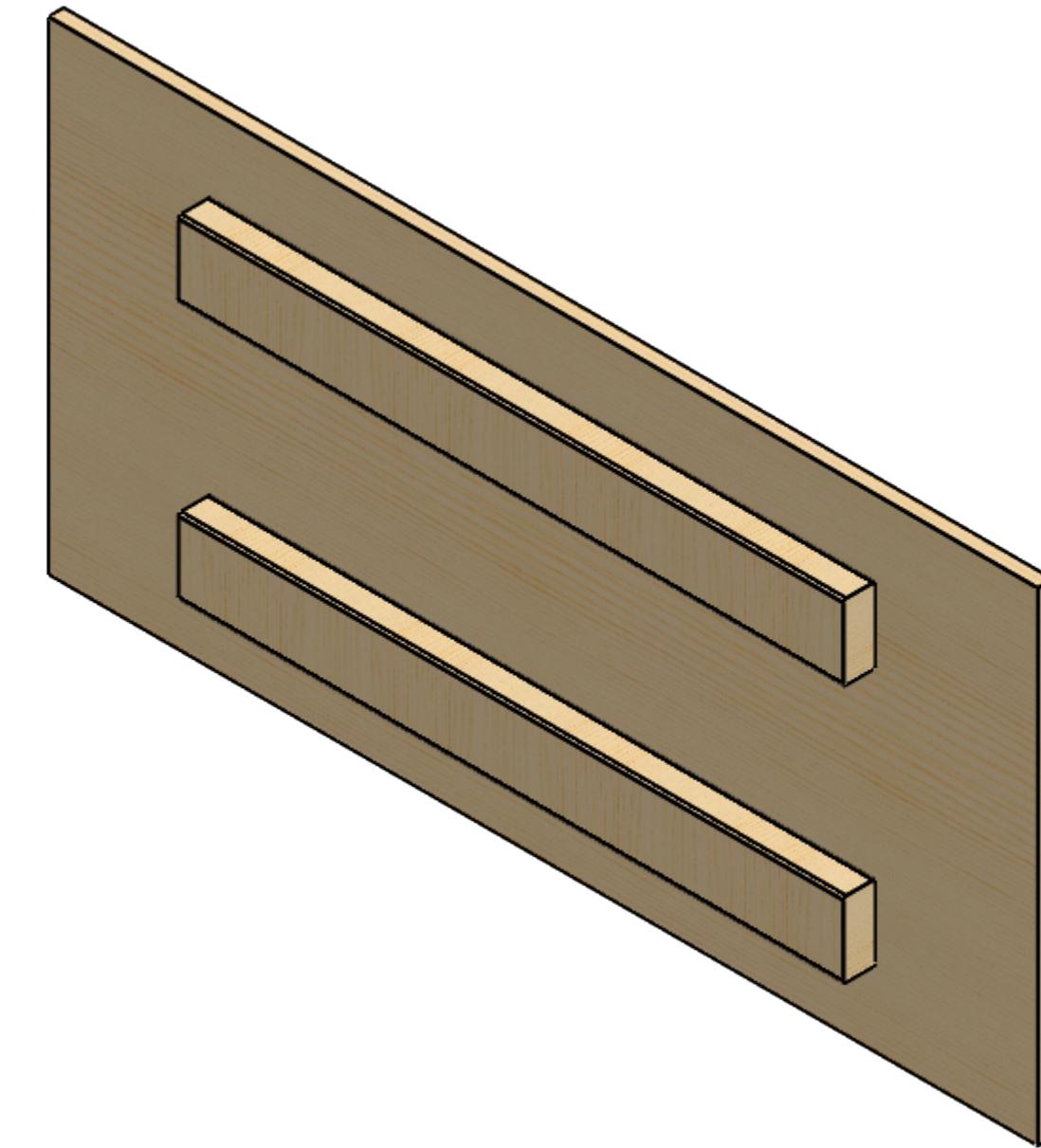
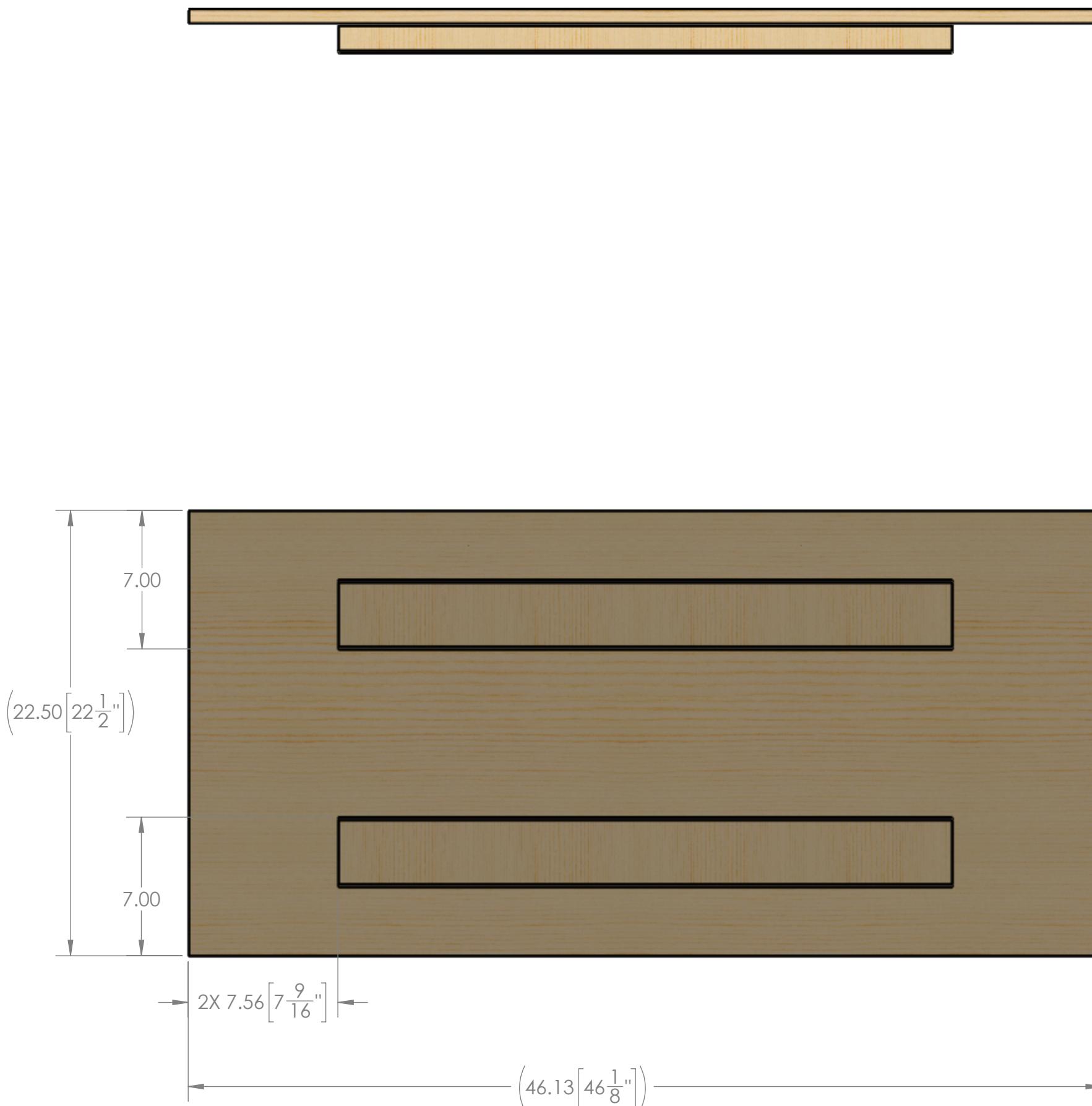
TITLE: HUB - Basic Build - Fender Front Assembly

SITE	DWG NO	REV
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C TE-22013

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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
	C	TE-22013	
COMMENTS:	REMOVE ALL BURRS AND SHARP EDGES.		
DO NOT SCALE DRAWING	SCALE: 1:6	SHEET 2 OF 2	

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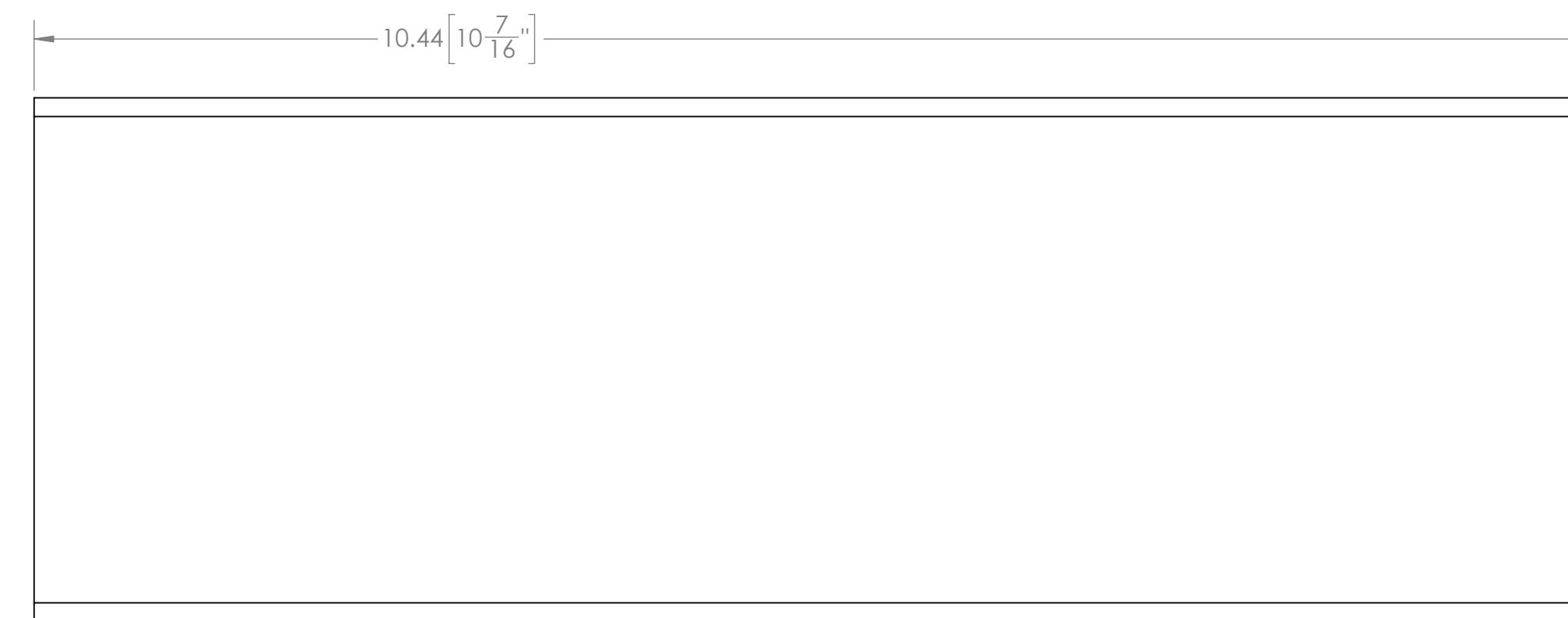
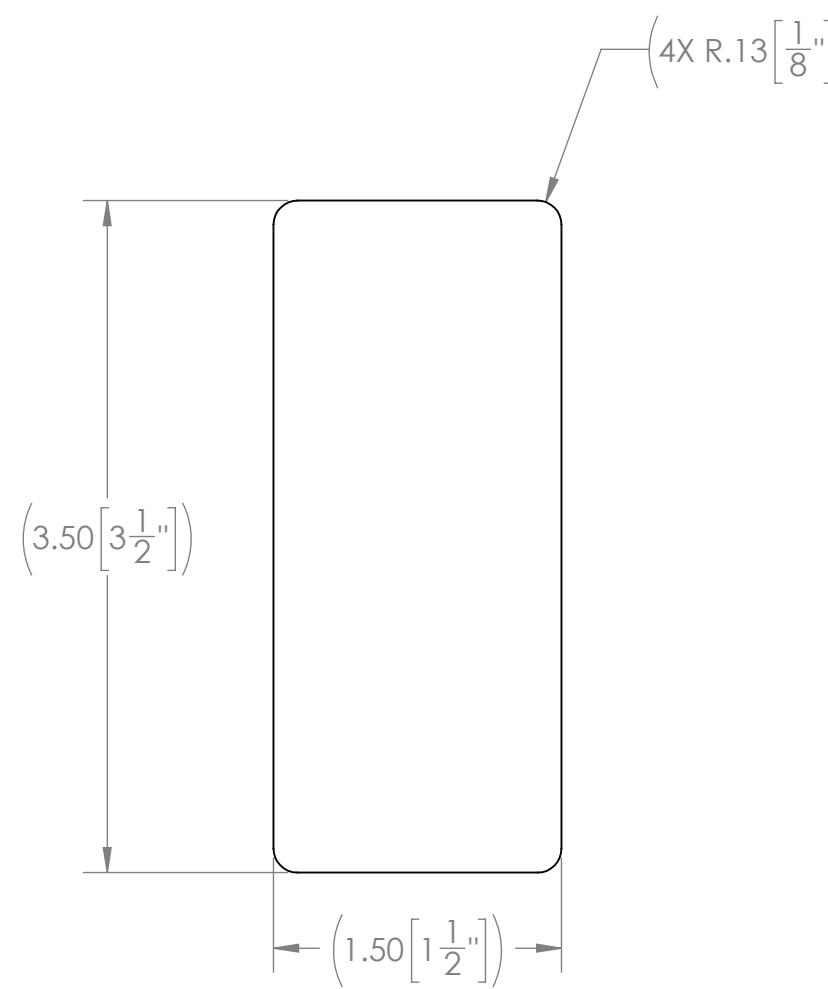
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DRAWN	KAMC	12/29/2021	
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
2"x4" Lumber	C	TE-22014	
COMMENTS:		SCALE: 1:1	
REMOVE ALL BURRS AND SHARP EDGES.		SHEET 1 OF 1	
DO NOT SCALE DRAWING			

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FIRST ROBOTICS COMPETITION
SOLIDWORKS
 Modeling Solutions Partner

 TITLE: HUB - Simple Build -
 Fender Side Horizontal
 2x4

 SIZE DWG. NO. REV
 C TE-22014

SCALE: 1:1 SHEET 1 OF 1

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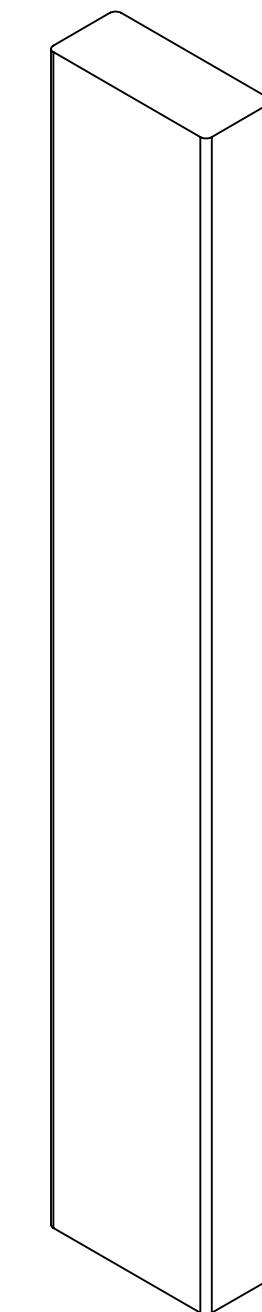
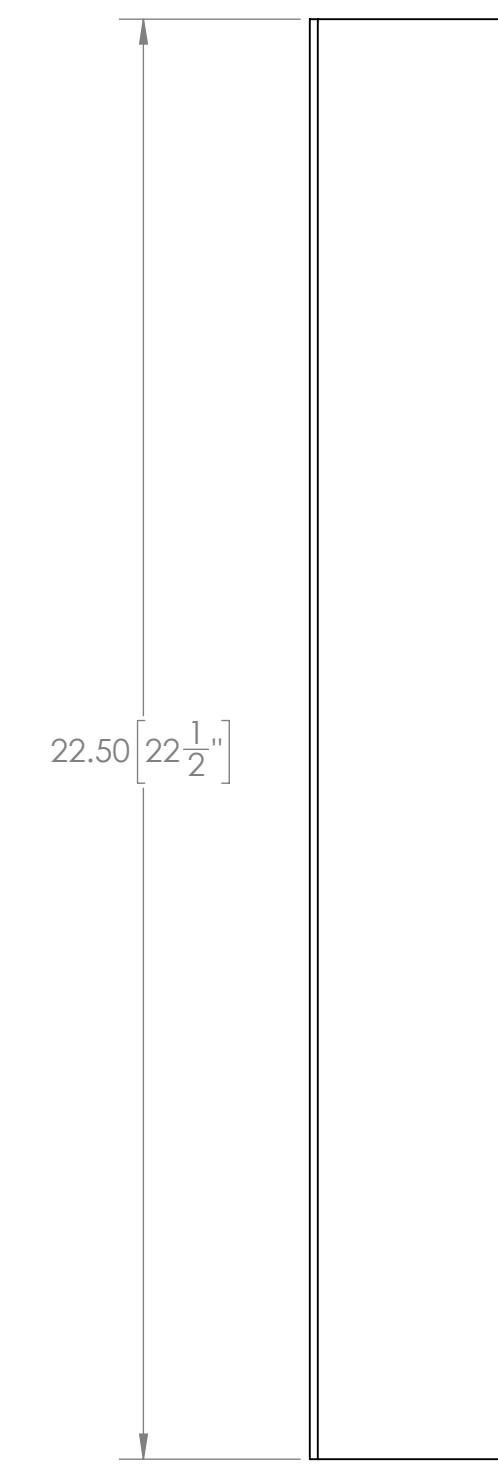
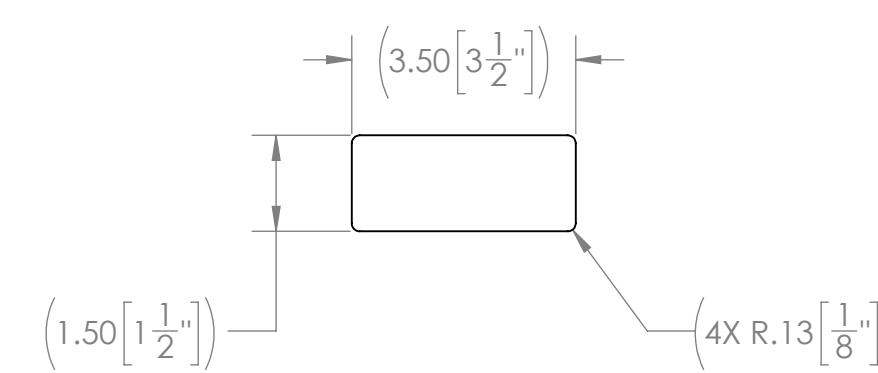
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	KAMC	12/29/2021
PROPRIETARY AND CONFIDENTIAL			
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MATERIAL/FINISH: 2"x4" Lumber	SIZE	DWG. NO.	REV
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.	C	TE-22015	
DO NOT SCALE DRAWING	SCALE: 1:3	SHEET 1 OF 1	

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22.50 $\left[22\frac{1}{2}\right]$

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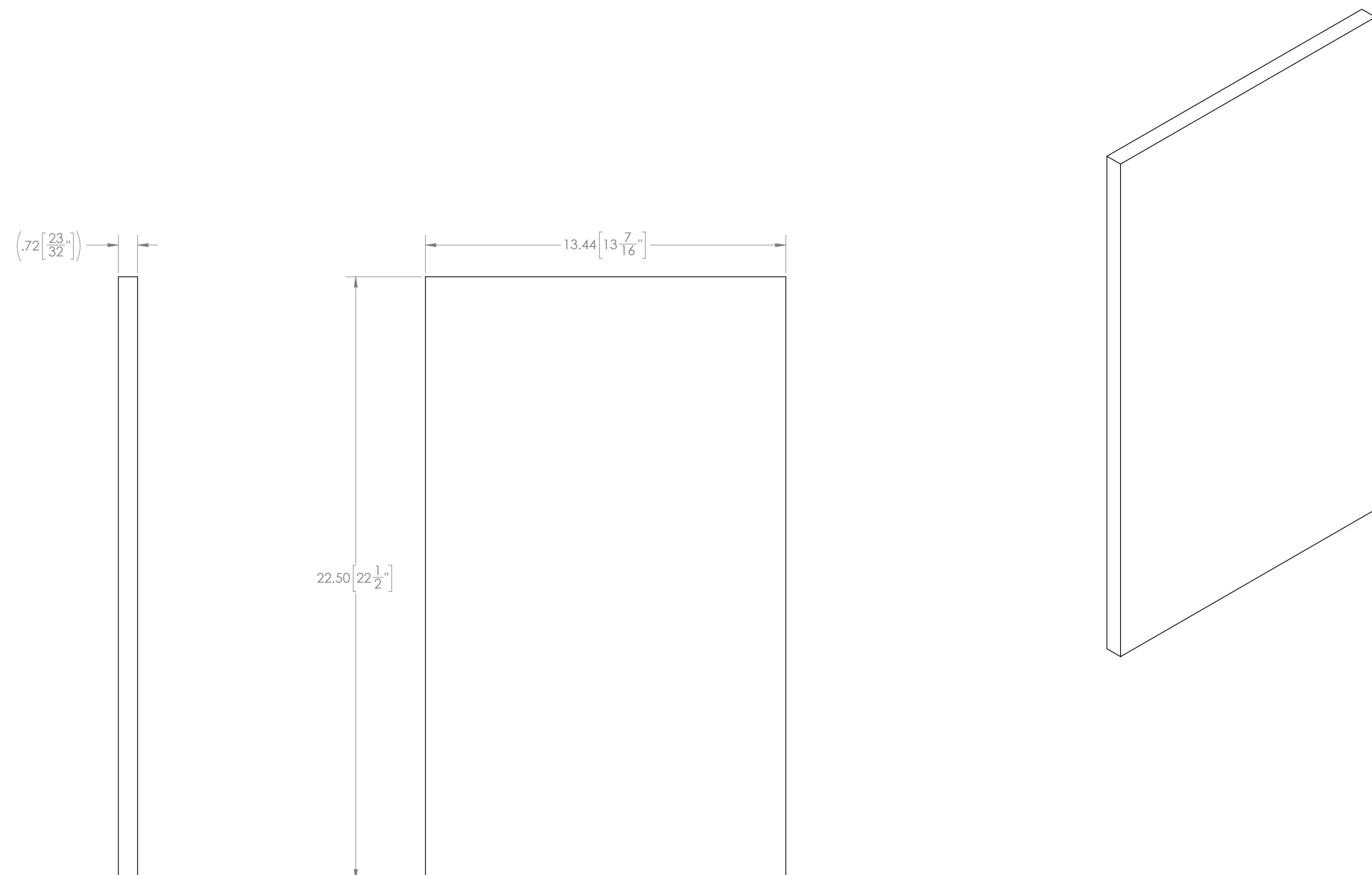
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UNLESS OTHERWISE SPECIFIED:

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:

3/4" Plywood

DO NOT SCALE DRAWING

TEAM NAME DATE

DRAWN KAMC 12/29/2021



TITLE: HUB - Simple Build -
Fender Side

SIZE DWG. NO. REV

C TE-22016

SCALE: 1:3 SHEET 1 OF 1

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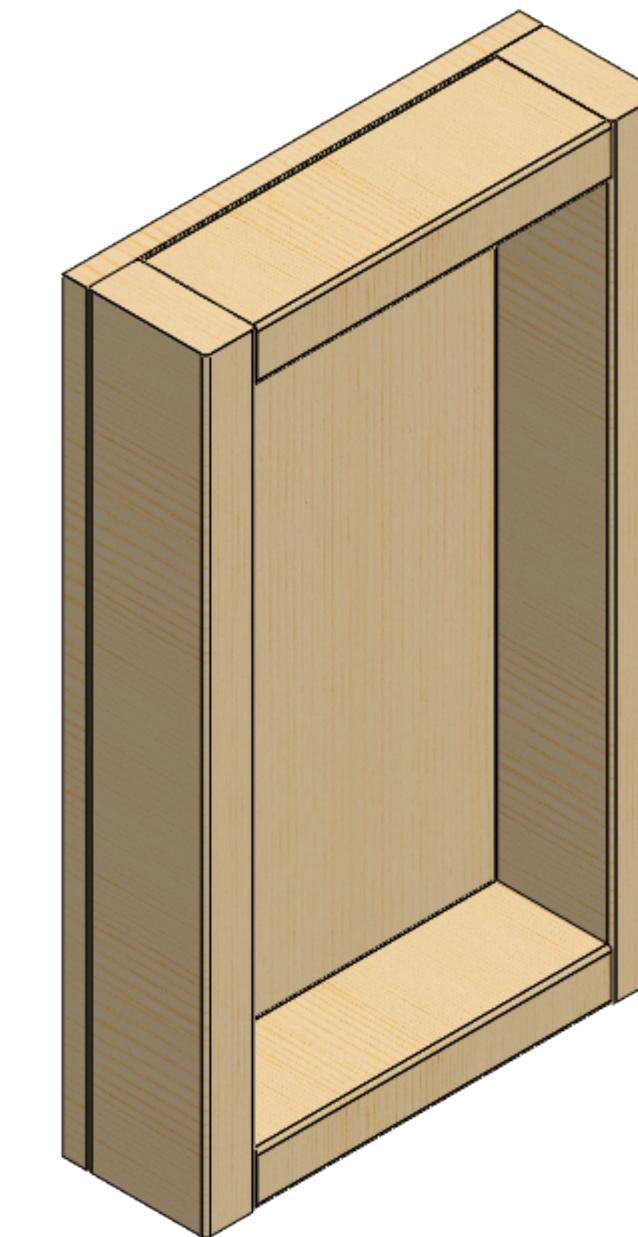
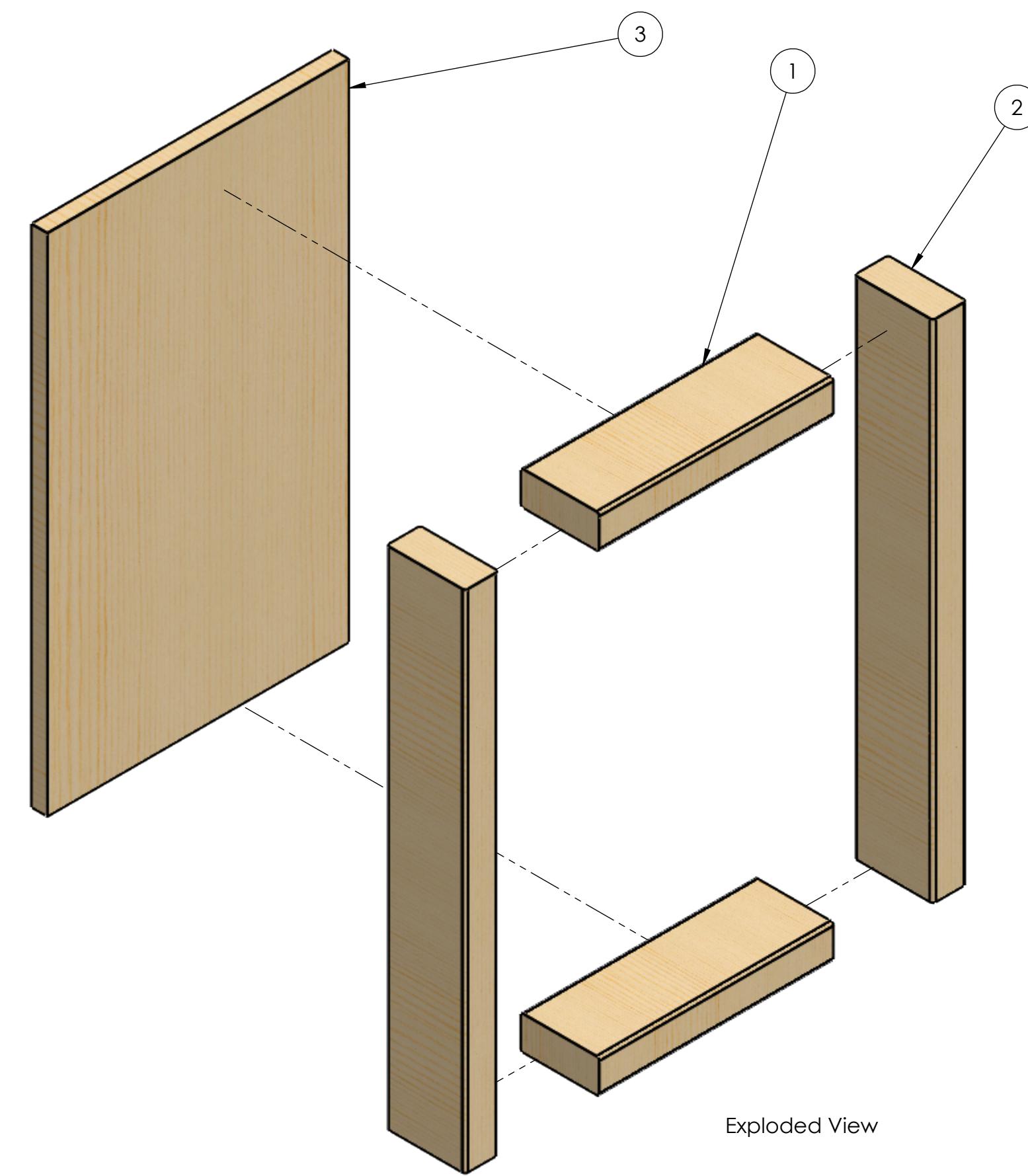
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Hardware:
#8 x 2" Long Screw - Qty 16
#8 x 2.5" Long Screw - Qty 8

ITEM NO.	PART NUMBER	DESCRIPTION	
1	TE-22014	HUB - Simple Build - Fender Side Horizontal 2x4	2
2	TE-22015	HUB - Simple Build - Fender Vertical 2x4	2
3	TE-22016	HUB - Simple Build - Fender Side	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:

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COMMENTS:
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DO NOT SCALE DRAWING



TITLE: HUB - Basic Build - Fender Side Assembly

SIZE DWG. NO. REV
C TE-22017

SCALE: 1:4 SHEET 1 OF 3

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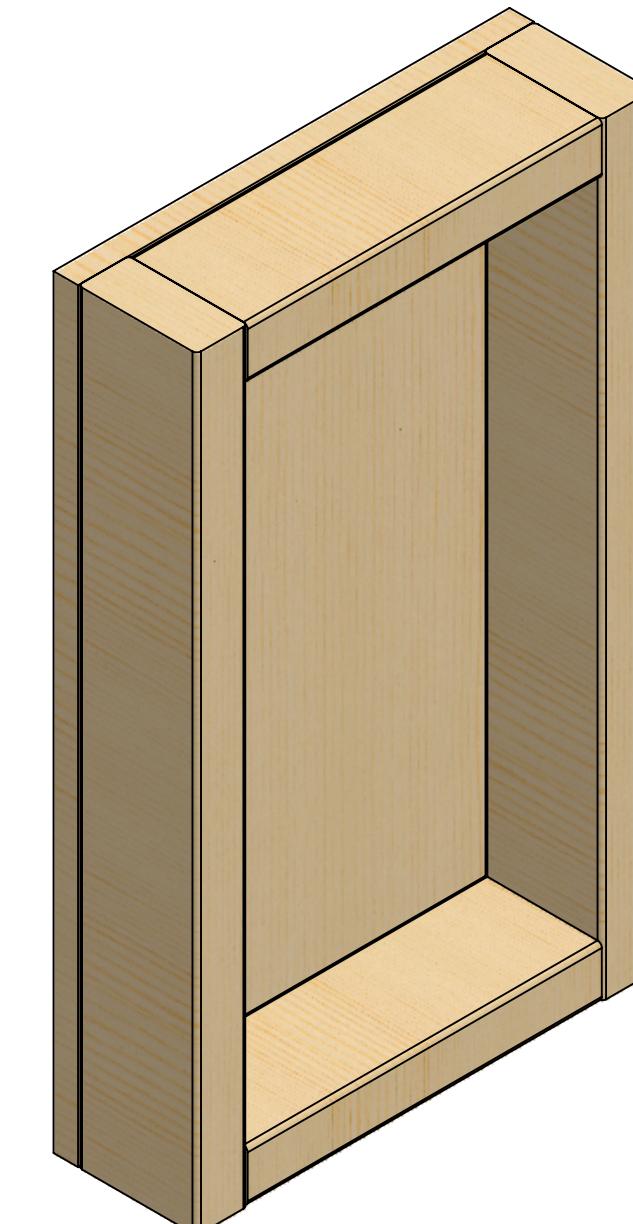
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DRAWN	KAMC	12/30/2021	
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MATERIAL/FINISH:			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

 **FIRST
ROBOTICS
COMPETITION**  SOLIDWORKS
Modeling Solutions Partner

TITLE: **HUB - Basic Build -
Fender Side Assembly**

SIZE DWG. NO. REV

C TE-22017

SCALE: 1:4 SHEET 2 OF 3

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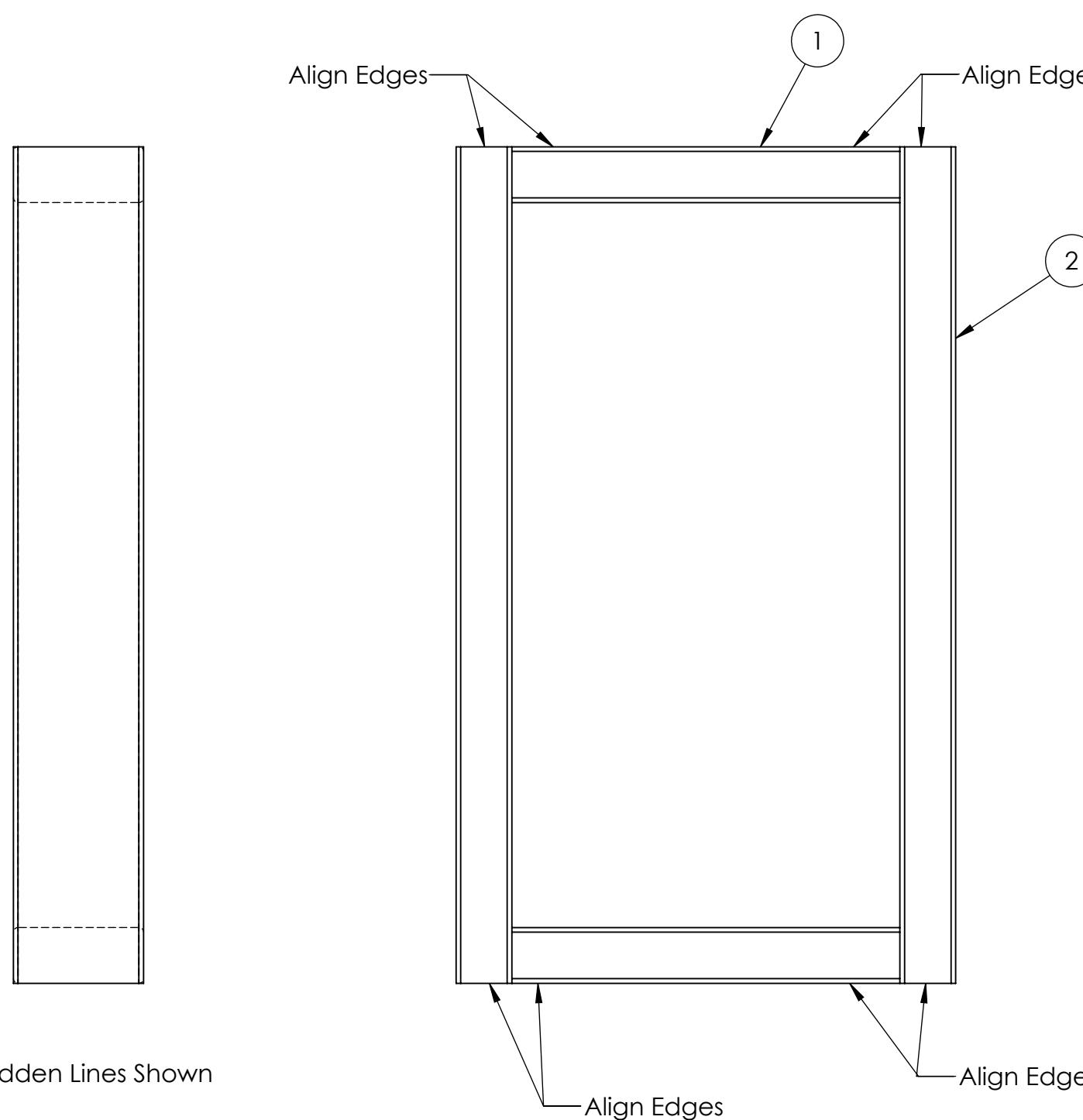
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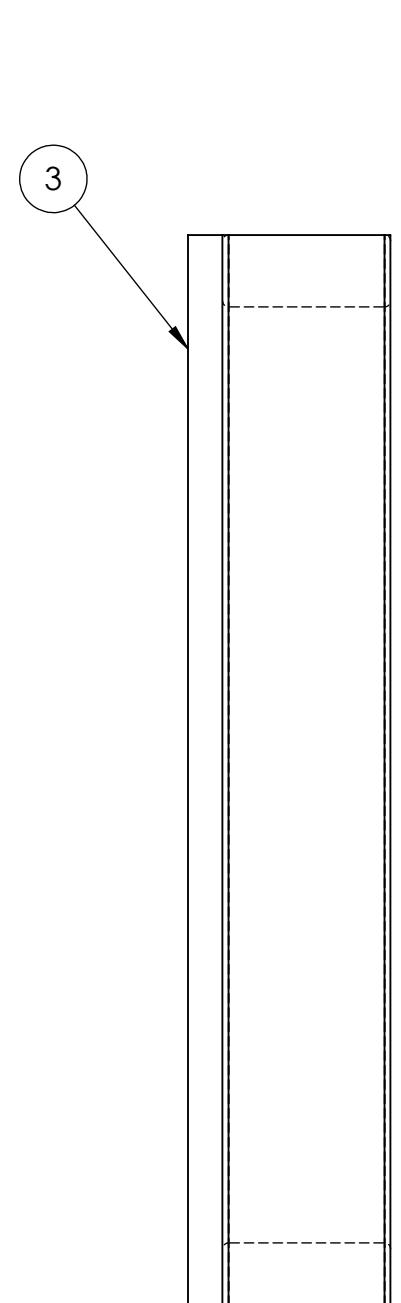
Step 1



Hidden Lines Shown

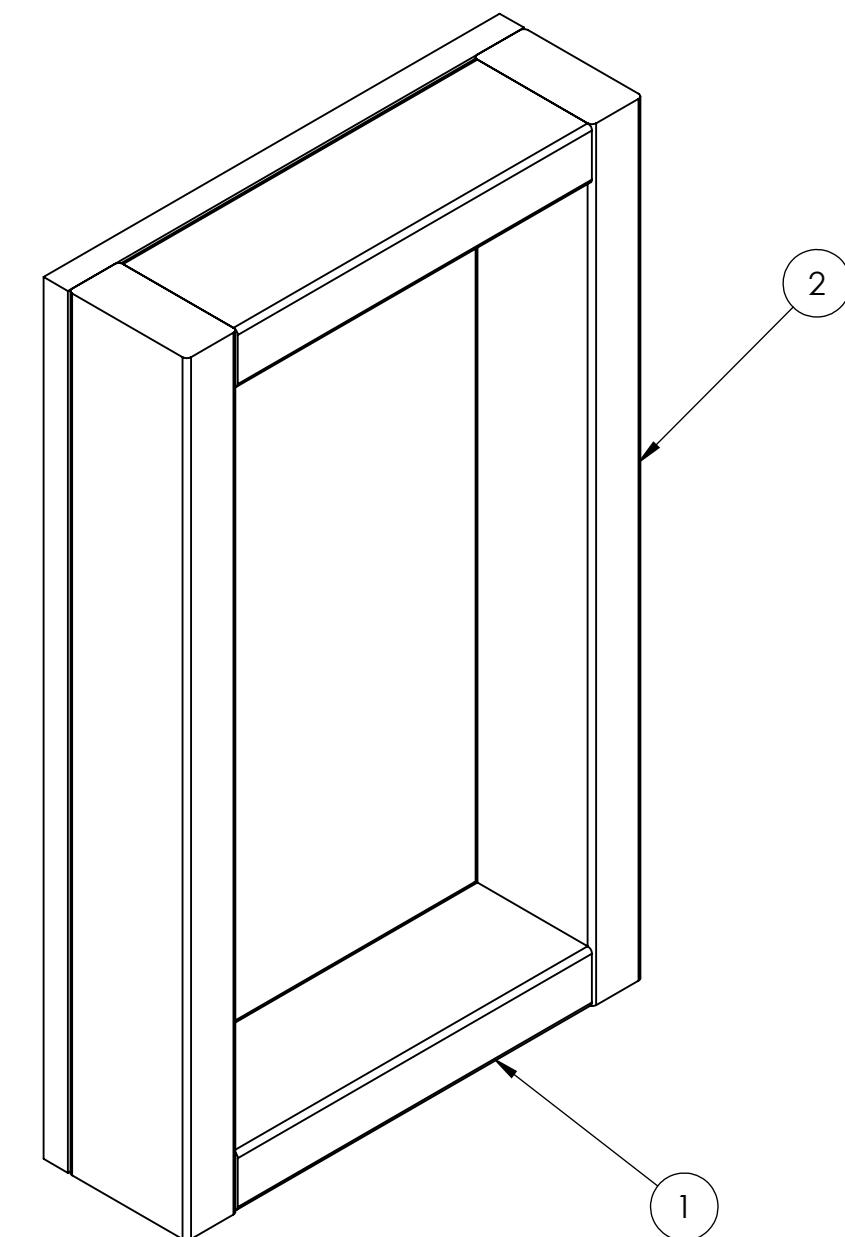
1. Align 2x 1 and 2x 2, as shown.
2. Attach using 2.5" long screws. It is recommended to use 2x screws into each interface between a 2 and 1.

Step 2



Hidden Lines Shown

1. Align 3 to the assembly made in Step 1, as shown.
2. Attach using 2" Long Screws. It is recommended to use 5x screws into each 2 and 3x screws into each 1.



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			DRAWN	KAMC	12/30/2021
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MATERIAL/FINISH:					
COMMENTS:	REMOVE ALL BURRS AND SHARP EDGES.				
DO NOT SCALE DRAWING			SIZE	DWG. NO.	REV
			C	TE-22017	
			SCALE: 1:4	SHEET 3 OF 3	

 **FIRST
ROBOTICS
COMPETITION**  **SOLIDWORKS**
Modeling Solutions Partner

TITLE: **HUB - Basic Build -
Fender Side Assembly**

SIZE DWG. NO. REV
C **TE-22017**

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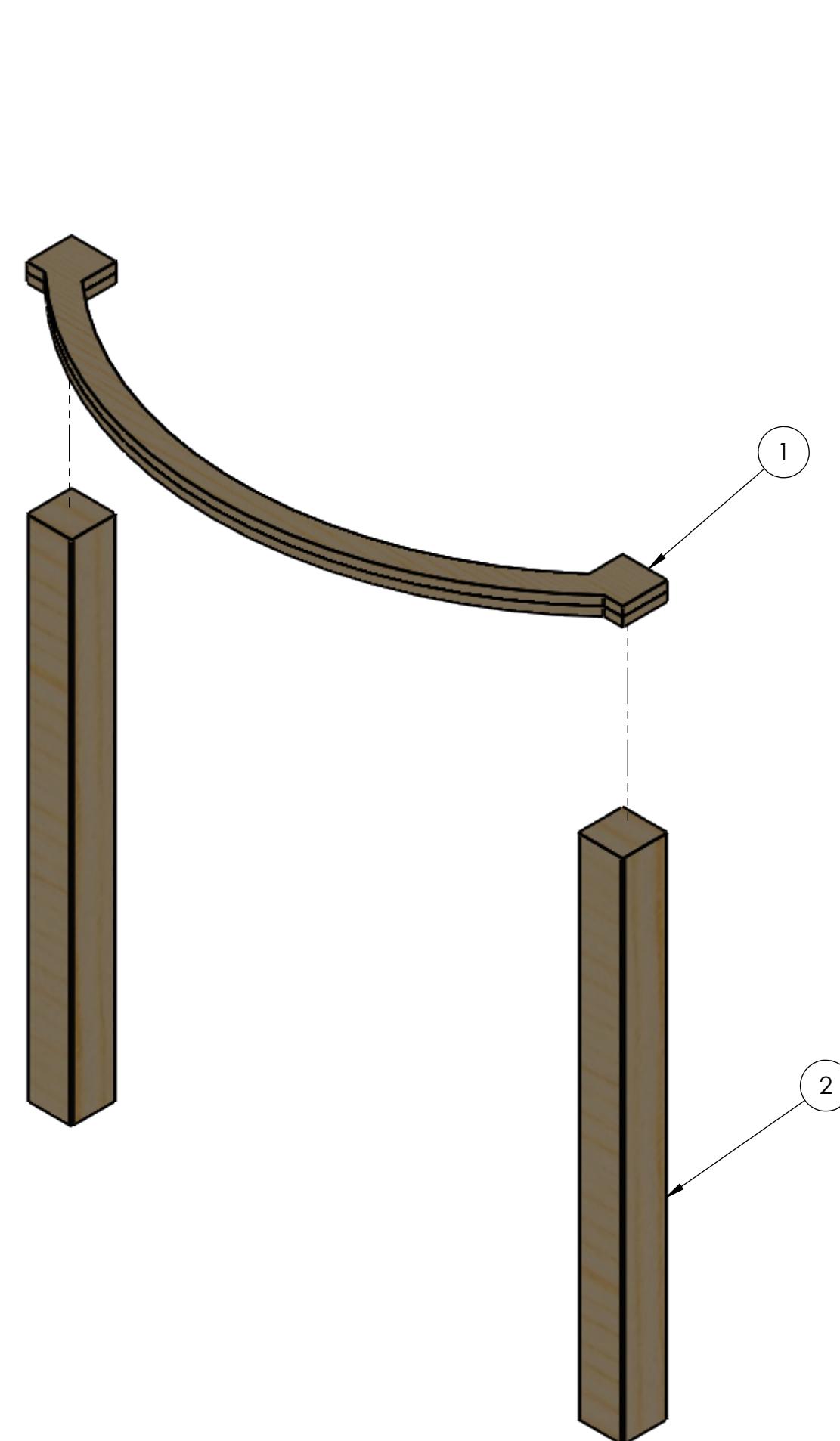
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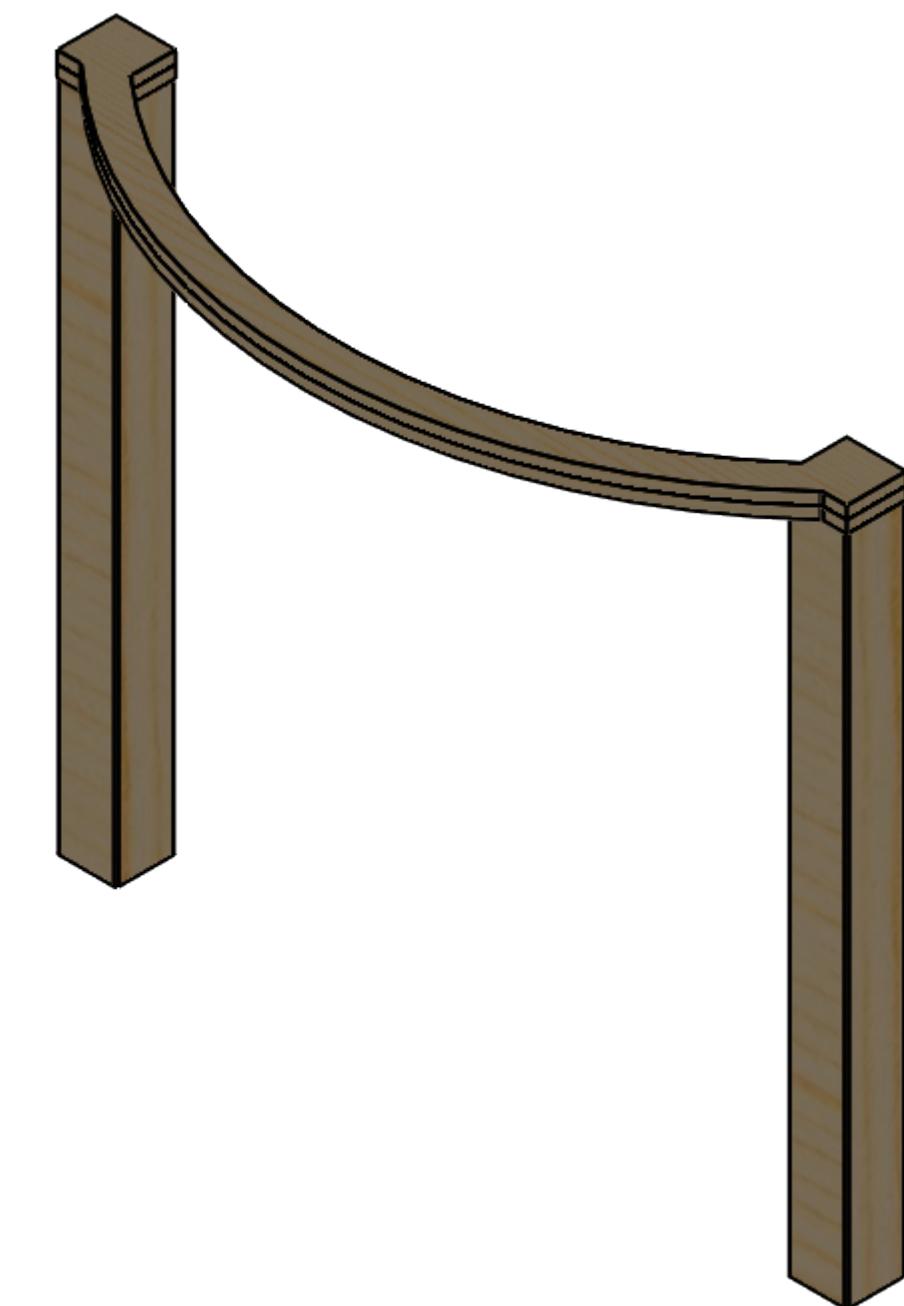
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Step 1:

1. Align (1) to 2x (2), as shown.
2. Connect using 3" long screws. It is recommended to use 4x screws into each (2).

Note: Be careful not to place screws too close to the edges of (2).



Note: Use TE-22020-Multiple if you are forming more than 1/4 ring.

Hardware Needed:
#8 x 3" Long Screws - Qty 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-22023-Single	HUB - Basic Build - Lower Hub Ring Assembly	1
2	TE-22025	HUB - Simple Build - Vertical for Lower Hub Ring 4x4	2

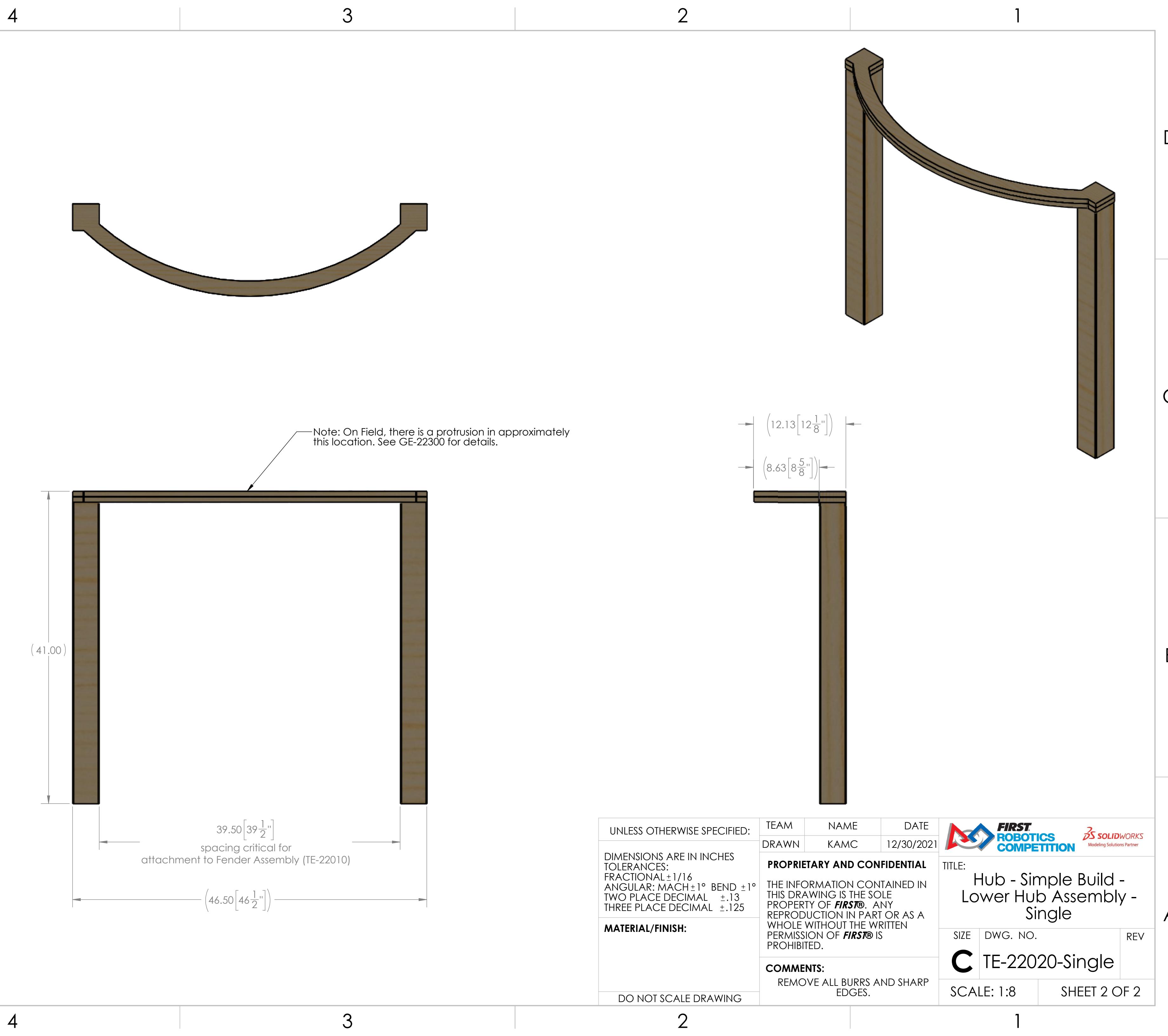
UNLESS OTHERWISE SPECIFIED:			TEAM	NAME	DATE	 FIRST ROBOTICS COMPETITION	 SOLIDWORKS Modeling Solutions Partner
DRAWN	KAMC	12/30/2021					
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$						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.	
						SIZE DWG. NO. REV	
						C TE-22020-Single	
						SCALE: 1:8	SHEET 1 OF 2
DO NOT SCALE DRAWING							

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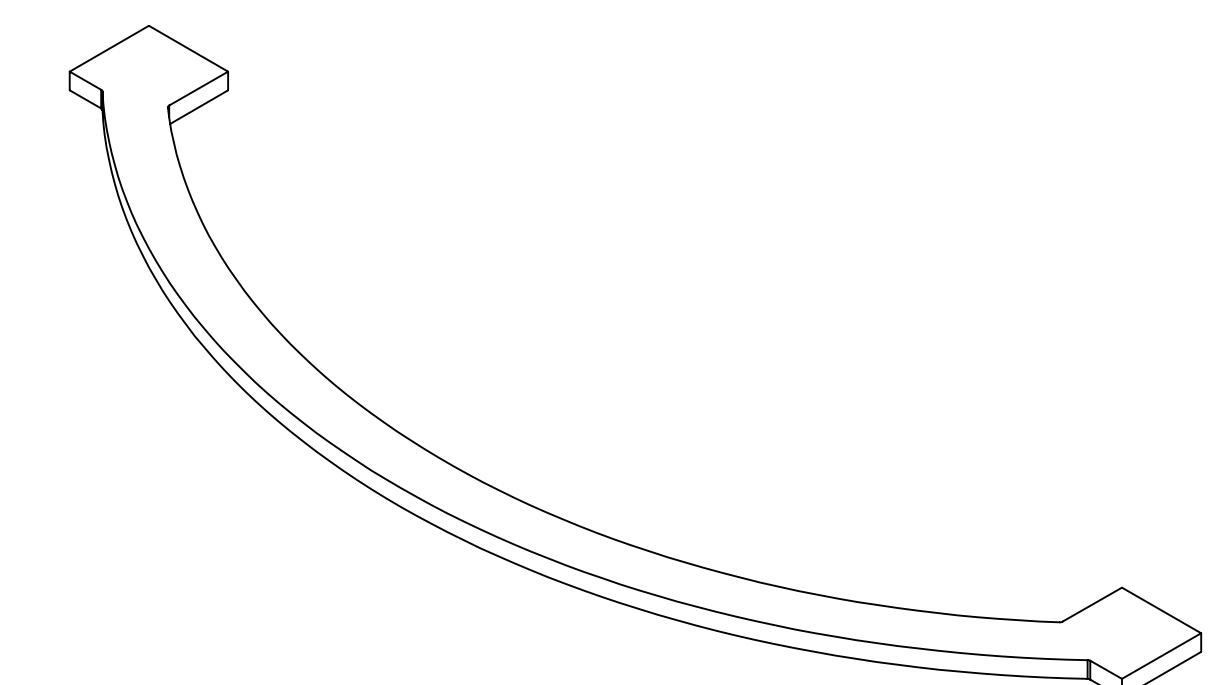
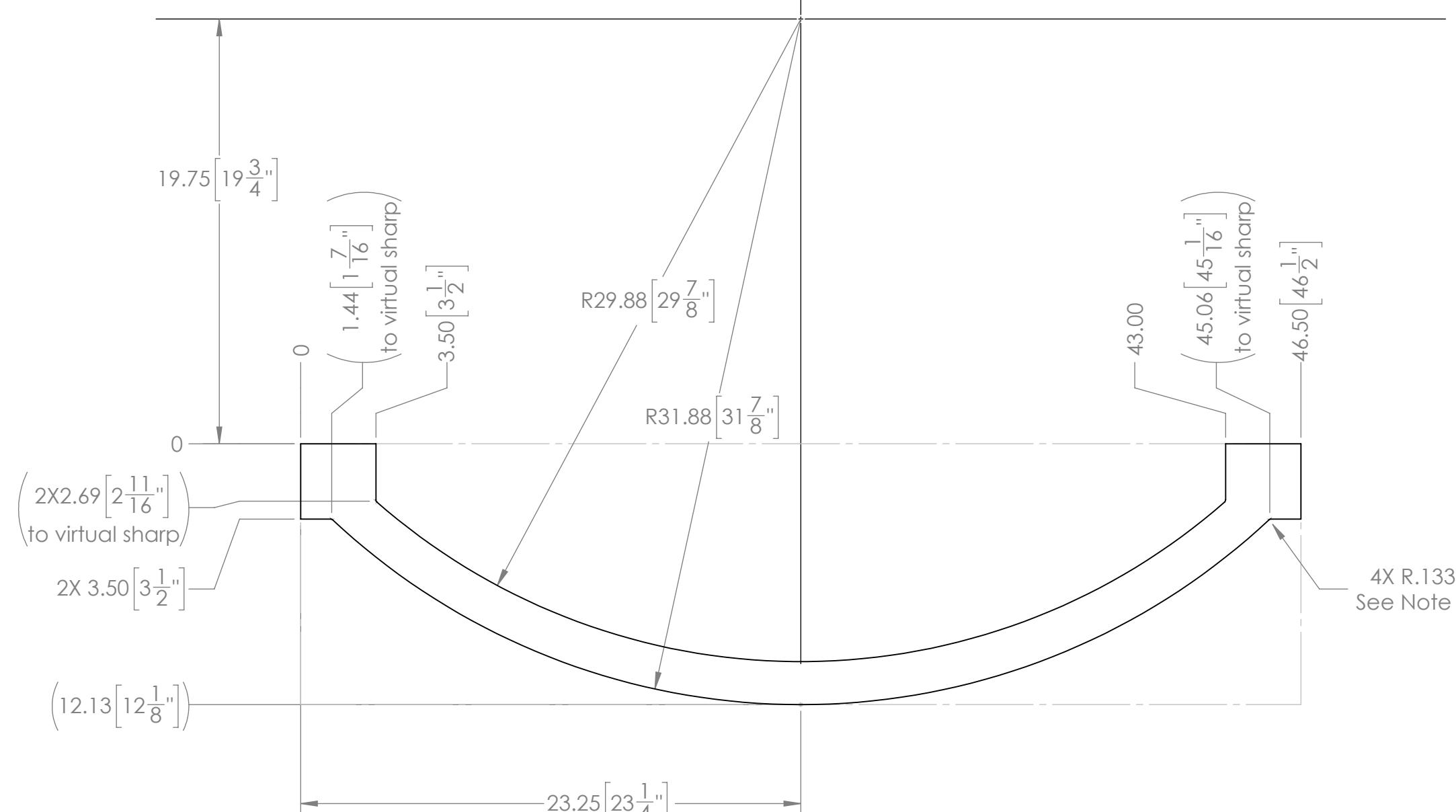
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- Note:
1. Radii located at internal corners are provided predominately for teams making parts with a router. A 90 degree angle is sufficient clearance.
 2. Use TE-22021-Multiple if you are forming more than 1/4 ring.

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DRAWN	KAMC	12/29/2021	 
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MATERIAL/FINISH: 3/4" Plywood			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			
TITLE: Hub - Simple Build - Lower Hub Ring - Single			
SIZE DWG. NO. REV			
C TE-22021-Single			
SCALE: 1:6 SHEET 1 OF 1			

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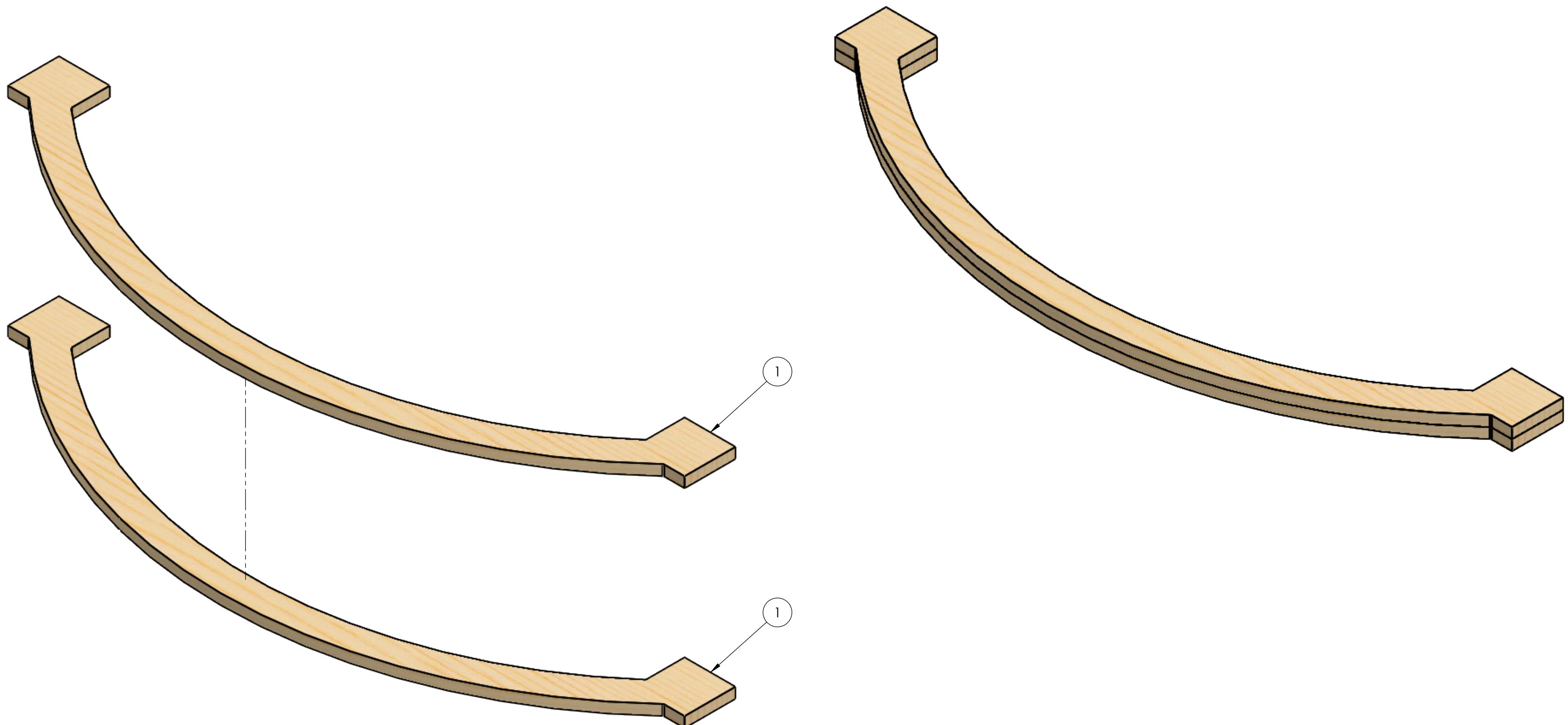
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Step 1:

1. Align 2x 1, as shown.
2. Connect using 1.25" long screws. It is recommended to use 8x screws. Screws should ONLY be placed around the arc. Avoid placing screws on the rectangular ends.

Note: Use TE-22023-Multiple if you are forming more than 1/4 ring.

Hardware Needed:
#8 x 1.25" Long Screws - Qty 8

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	TE-22021-Single	Hub - Simple Build - Lower Hub Ring - Single	2

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			DRAWN	KAMC	12/30/2021
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MATERIAL/FINISH:					
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.					
DO NOT SCALE DRAWING					

FIRST ROBOTICS COMPETITION Modeling Solutions Partner

TITLE: HUB - Basic Build - Lower Hub Ring Assembly

SIZE DWG. NO. REV

C TE-22023-Single

SCALE: 1:4 SHEET 1 OF 2

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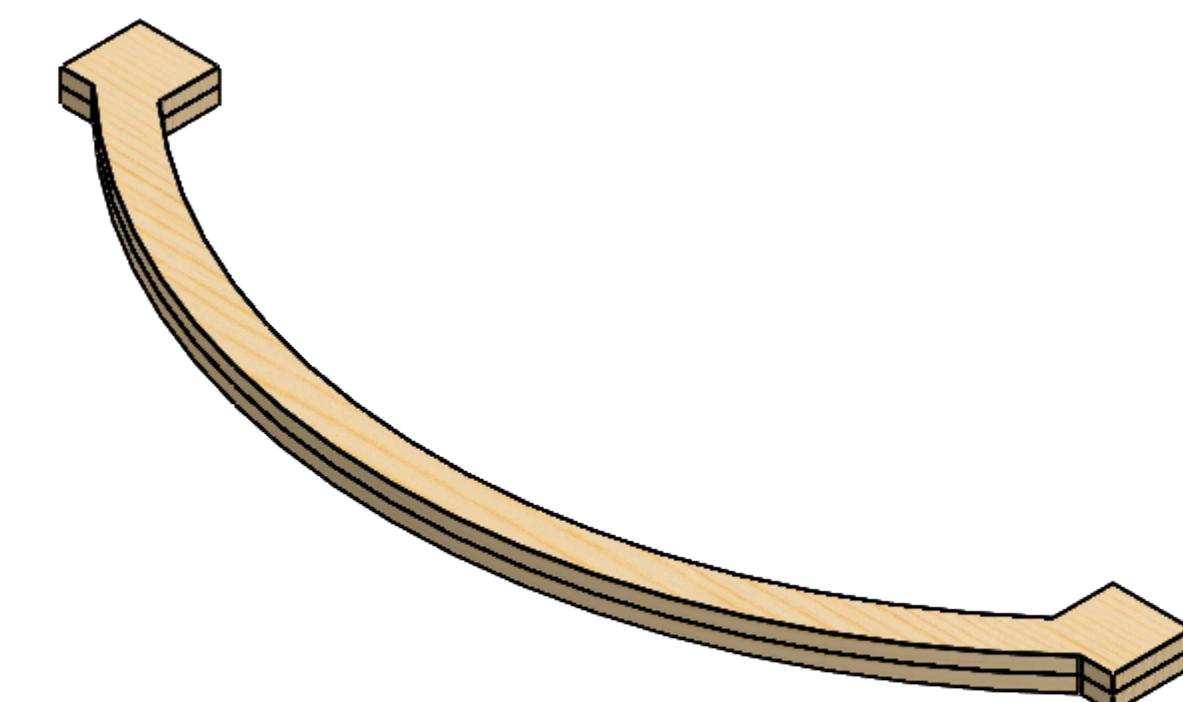
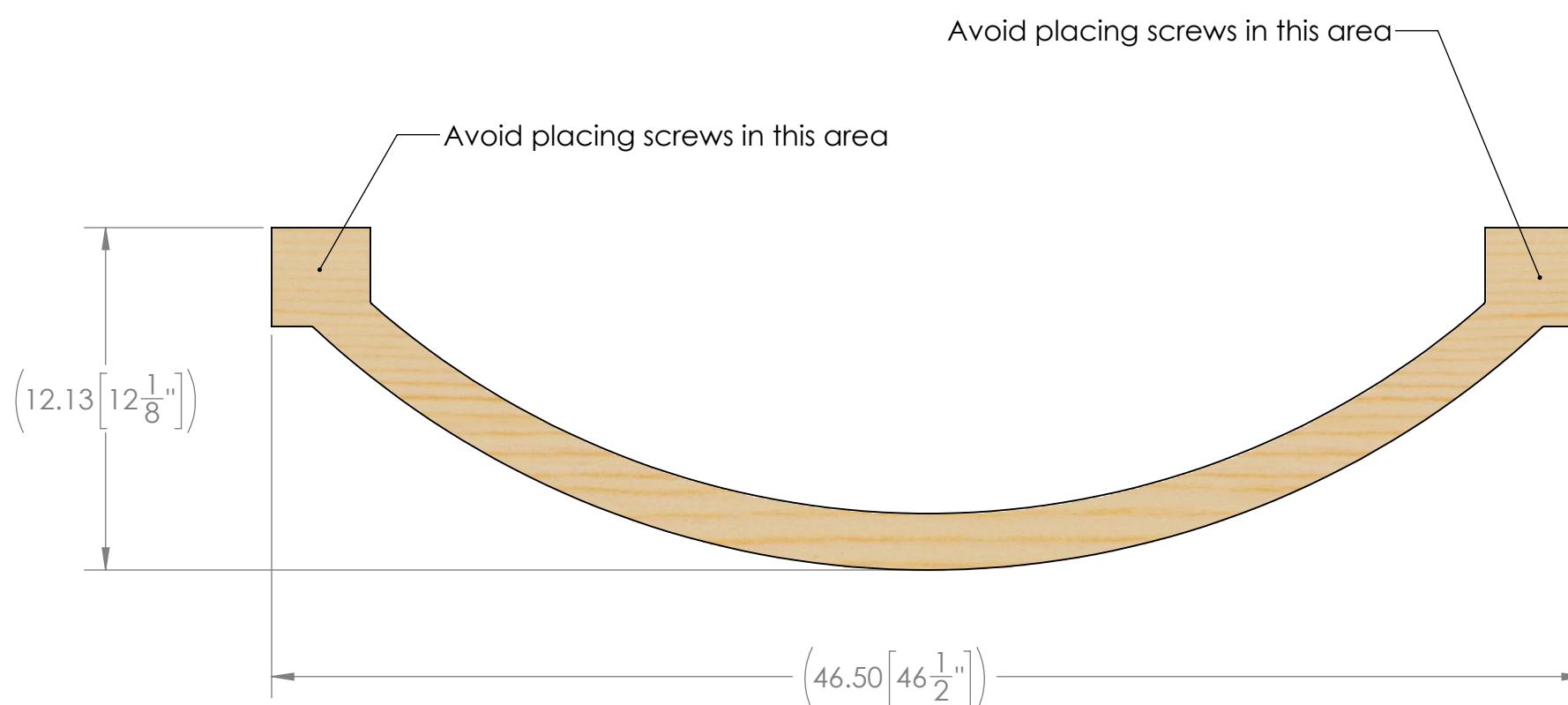
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16$ ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .13$ THREE PLACE DECIMAL $\pm .125$	DRAWN	KAMC	12/30/2021
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MATERIAL/FINISH:			
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING			

 **FIRST ROBOTICS COMPETITION**  SOLIDWORKS
Modeling Solutions Partner

TITLE: HUB - Basic Build - Lower Hub Ring Assembly

SIZE DWG. NO. REV

CTE-22023-Single

SCALE: 1:6 SHEET 2 OF 2

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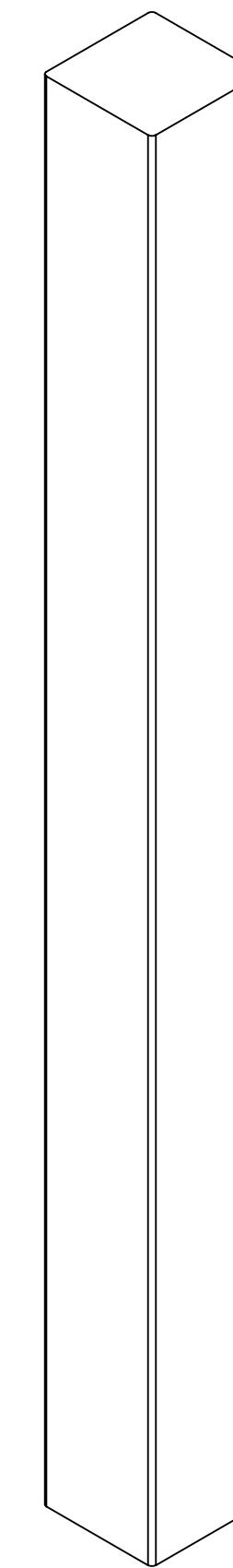
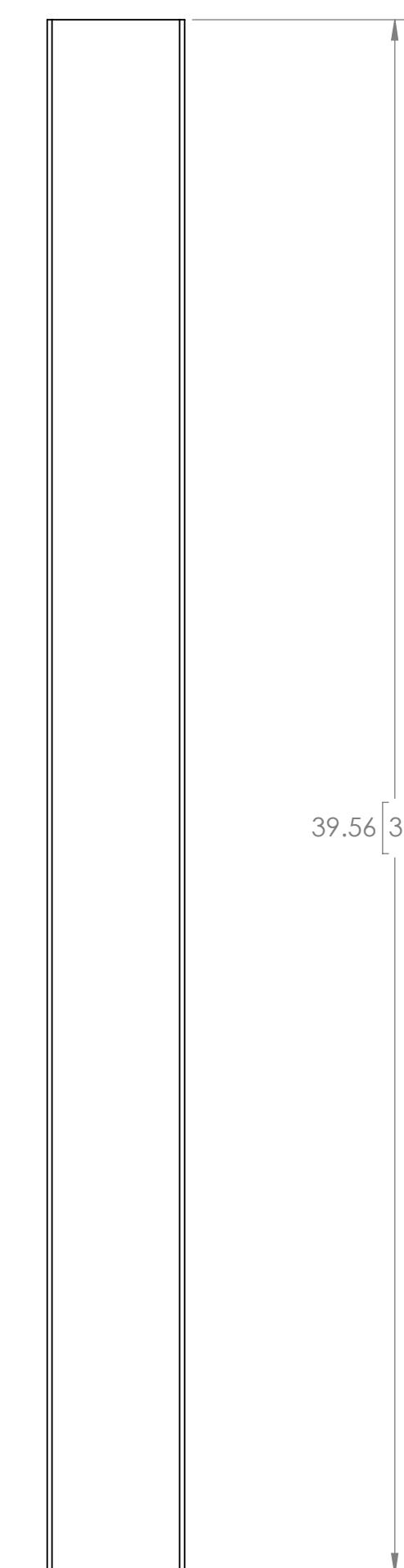
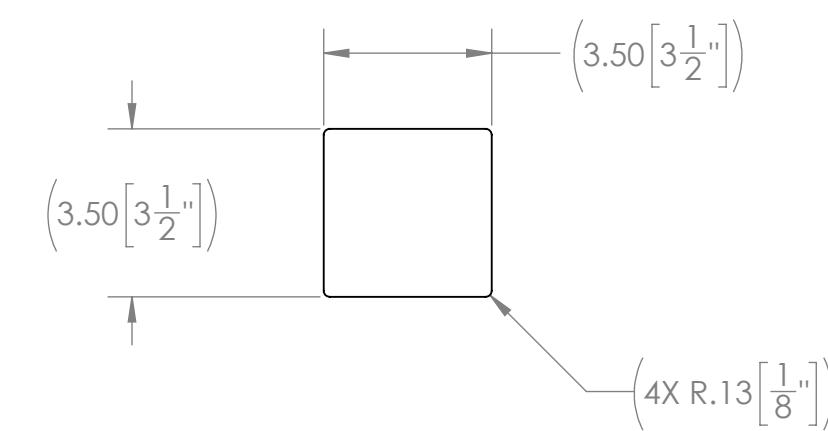
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UNLESS OTHERWISE SPECIFIED:	TEAM	NAME	DATE
DIMENSIONS ARE IN INCHES	DRAWN	KAMC	12/29/2021
PROPRIETARY AND CONFIDENTIAL			
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MATERIAL/FINISH:	SIZE	DWG. NO.	REV
4"x4" Lumber	C	TE-22025	
COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.			
DO NOT SCALE DRAWING	SCALE: 1:4	SHEET 1 OF 1	

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