

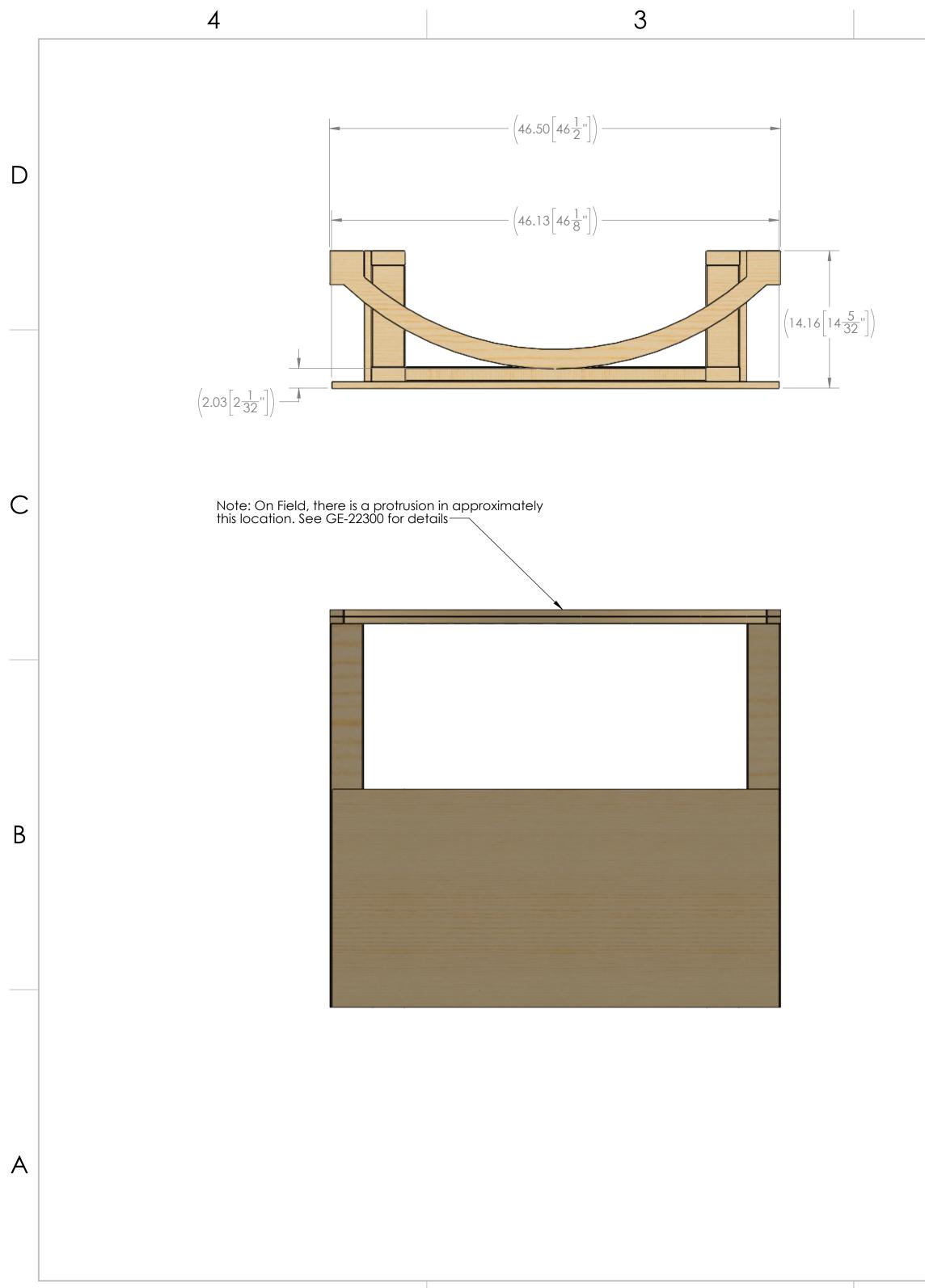
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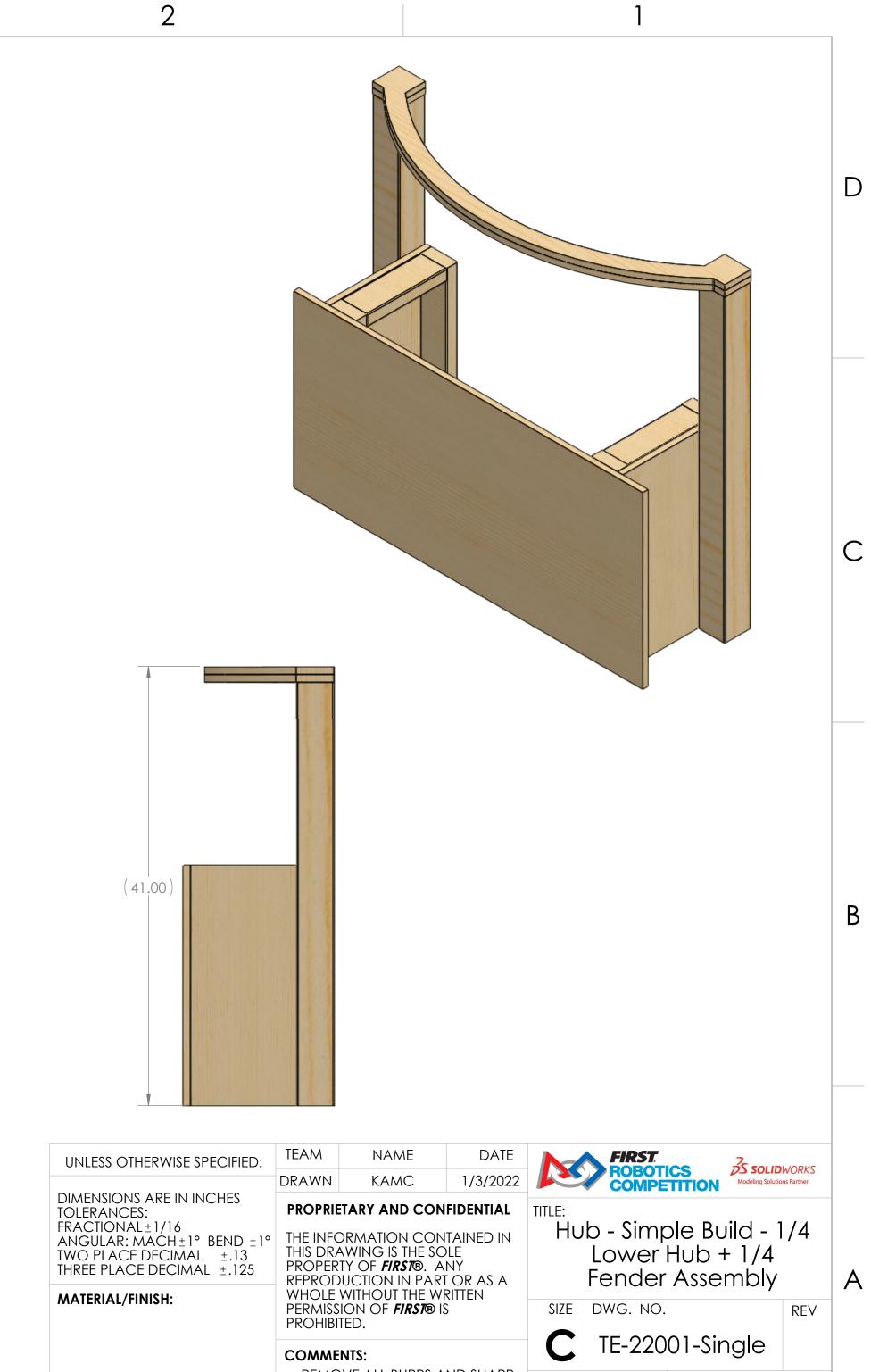
2

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

| | ITEM NO. | PA | RT NUN | ABER | | DESCRIPTIO | N | | QTY. |] |
|--|---|--|---------|-------------|------------------|----------------------------------|---------|----------------|-------|----------|
| | 1 | TE-2201 | 0 | | Hub - | Simple Build Assembly | | | 1 | <u> </u> |
| | 2 | TE-2202 | 0-Singl | е | | mple Build - I Assembly - Sir | | | 1 | |
| UNLESS OTHERWISE SPECIFIED: | TEAM | EAM NAME DATE | | | | | | | WORKS | |
| | DRAWN | RAWN KAMC 1/3/2022 | | | 22 | COMPE | | deling Solutio | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | THE INFO THIS DRA PROPER REPROD | 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 | | | Hub Simple Build | | | | /4 | A |
| MATERIAL/FINISH: | | ION OF FI | | | SIZE | | | REV | - | |
| | | COMMENTS: | | | C | IE-220 | 01-Sing | le | | |
| | REMO | REMOVE ALL BURRS AND SHARP EDGES. | | | SCA | SCALE: 1:8 SHEET 1 C | | |)F 3 | 1 |
| do not scale drawing | | EDGES. | | | 00/ | | 011221 | | | |
| 2 | | | | | | 1 | | | | |



3



DO NOT SCALE DRAWING

2

COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.

SIZE DWG. NO.

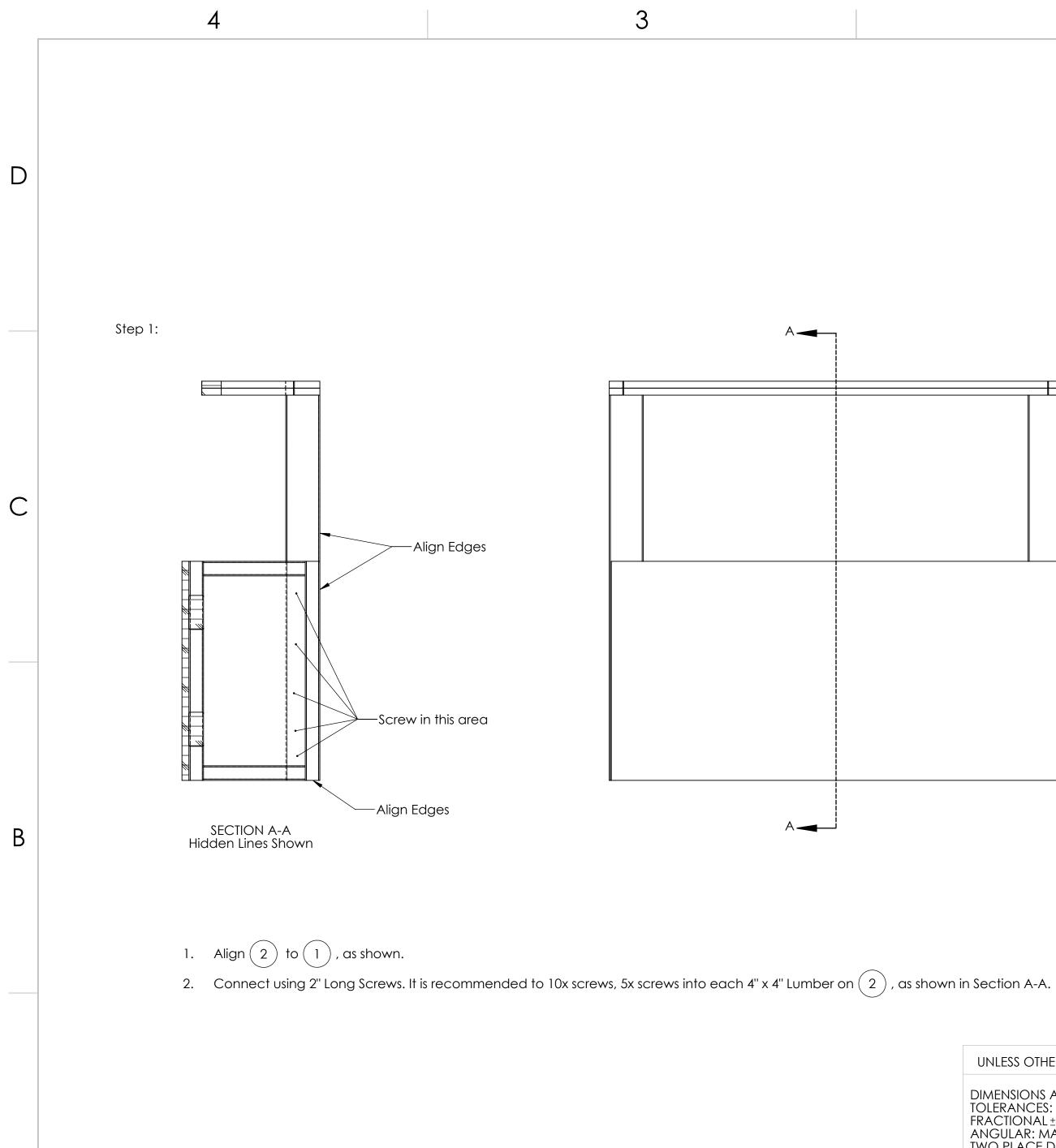
SCALE: 1:8

TE-22001-Single

C

REV

SHEET 2 OF 3



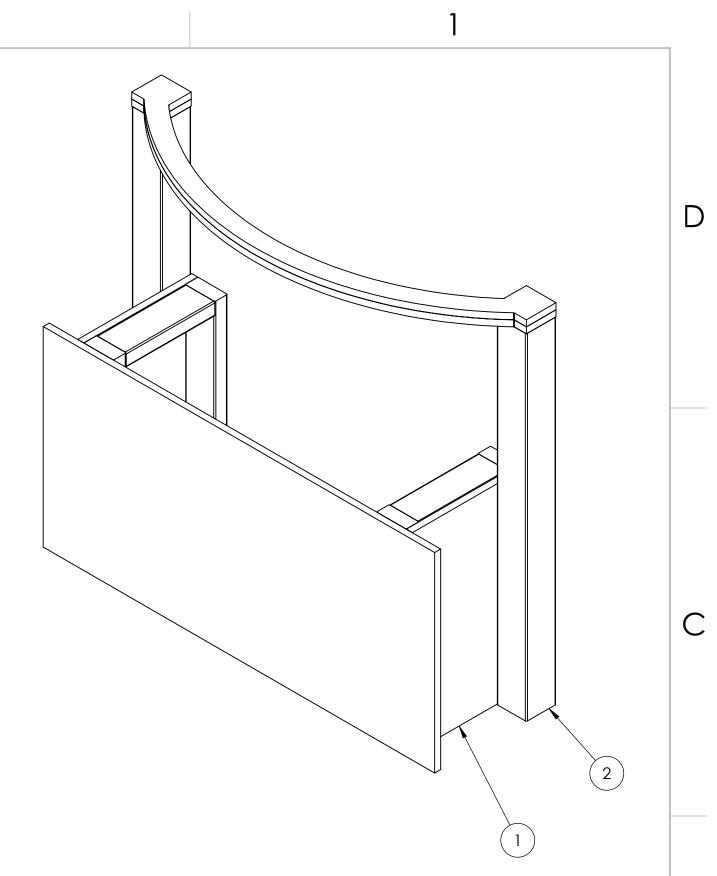
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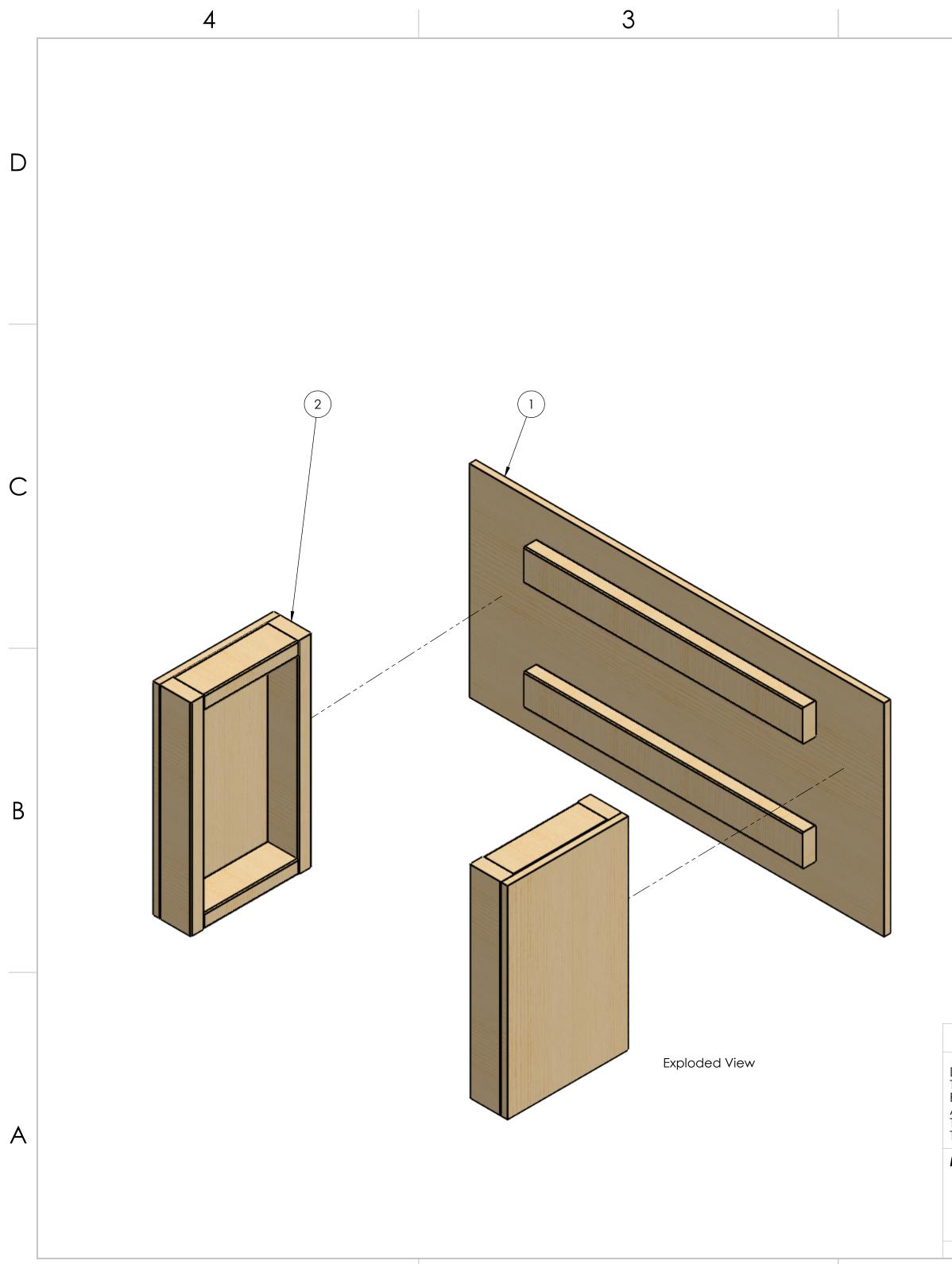


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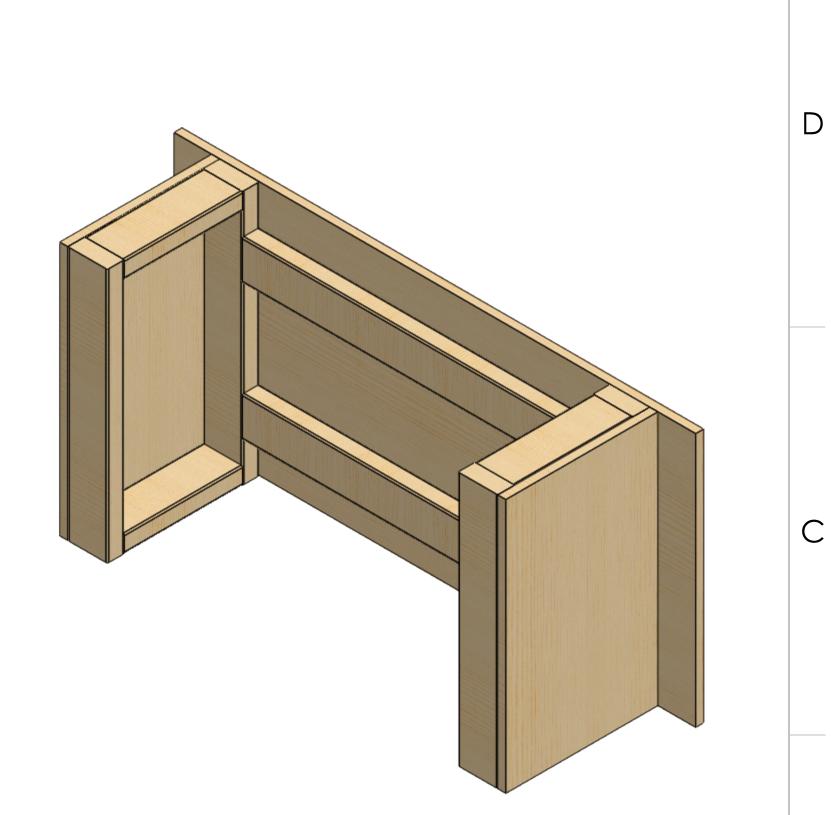
| UNLESS OTHERWISE SPECIFIED: | TEAM | | | | FIRST. | 25 50 | DLID WORKS | |
|---|--|--|--|--|----------|-----------|-------------------|---|
| | DRAWN | KAMC | 1/3/2022 | | | | Solutions Partner | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | THE INFO THIS DRA PROPER REPROD | TARY AND COI DRMATION COI WING IS THE SO IY OF FIRST ®. A UCTION IN PAR | NTAINED IN OLE ANY RT OR AS A | Hub - Simple Build - 1/4 Lower Hub + 1/4 Fender Assembly | | | | |
| MATERIAL/FINISH: | PERMISS | WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED. | | | DWG. NO. | | REV | - |
| | COMME | NTS: | | | TE-220 | 01-Single | | |
| do not scale drawing | REMO | VE ALL BURRS / EDGES. | and Sharp | SCA | LE: 1:8 | SHEET 3 | 5 OF 3 | |
| 2 | | | | | 1 | | | |



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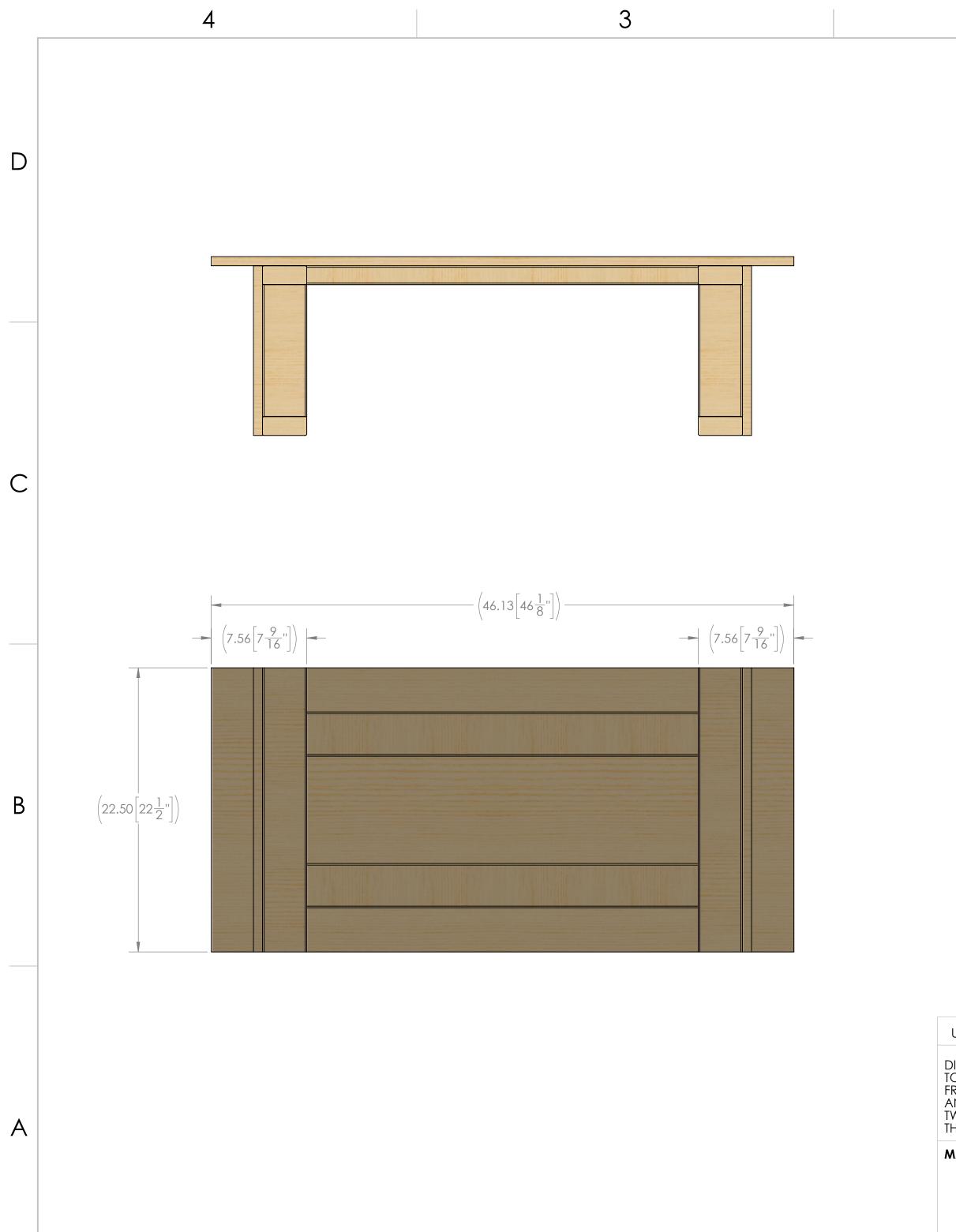


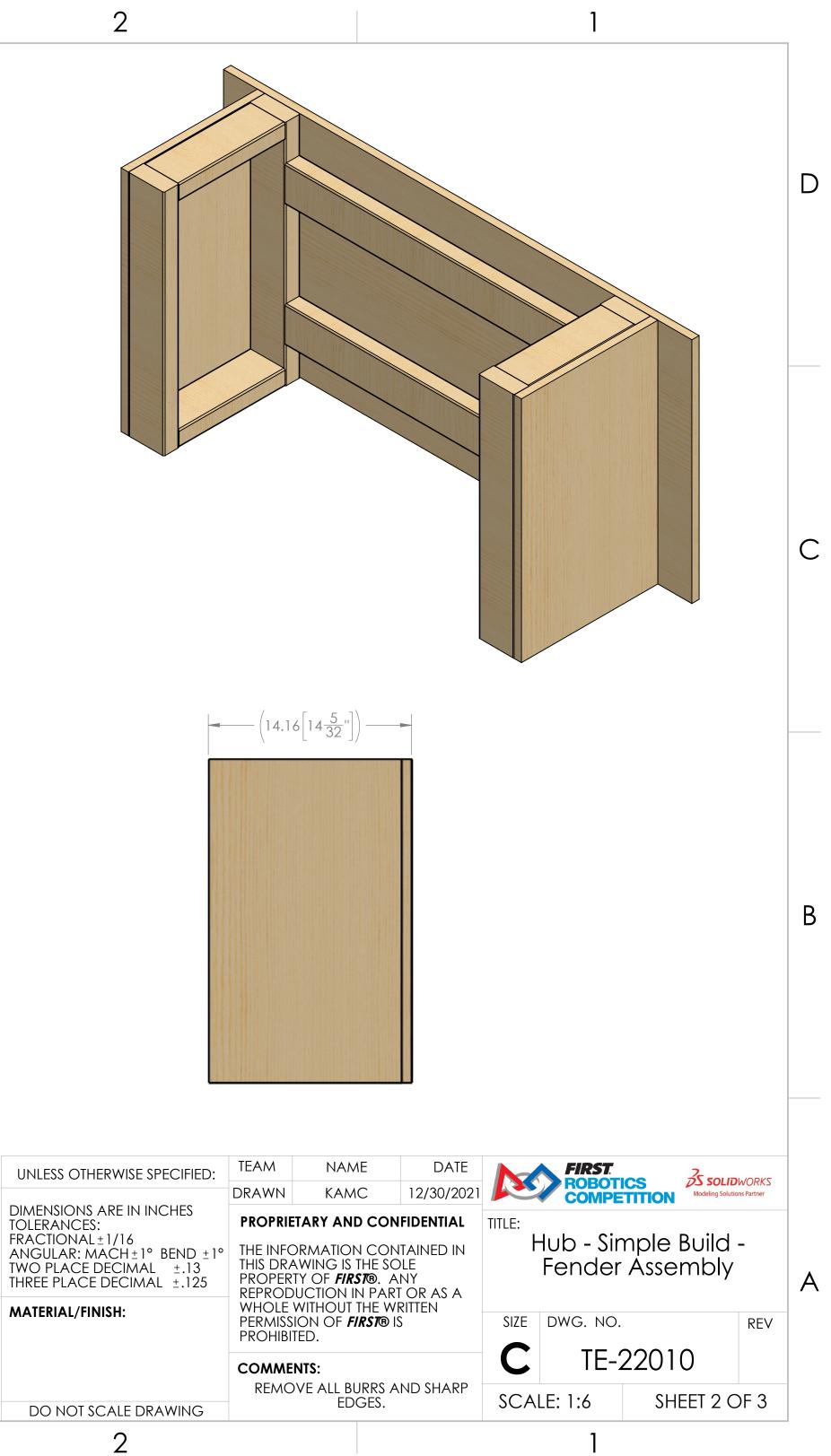
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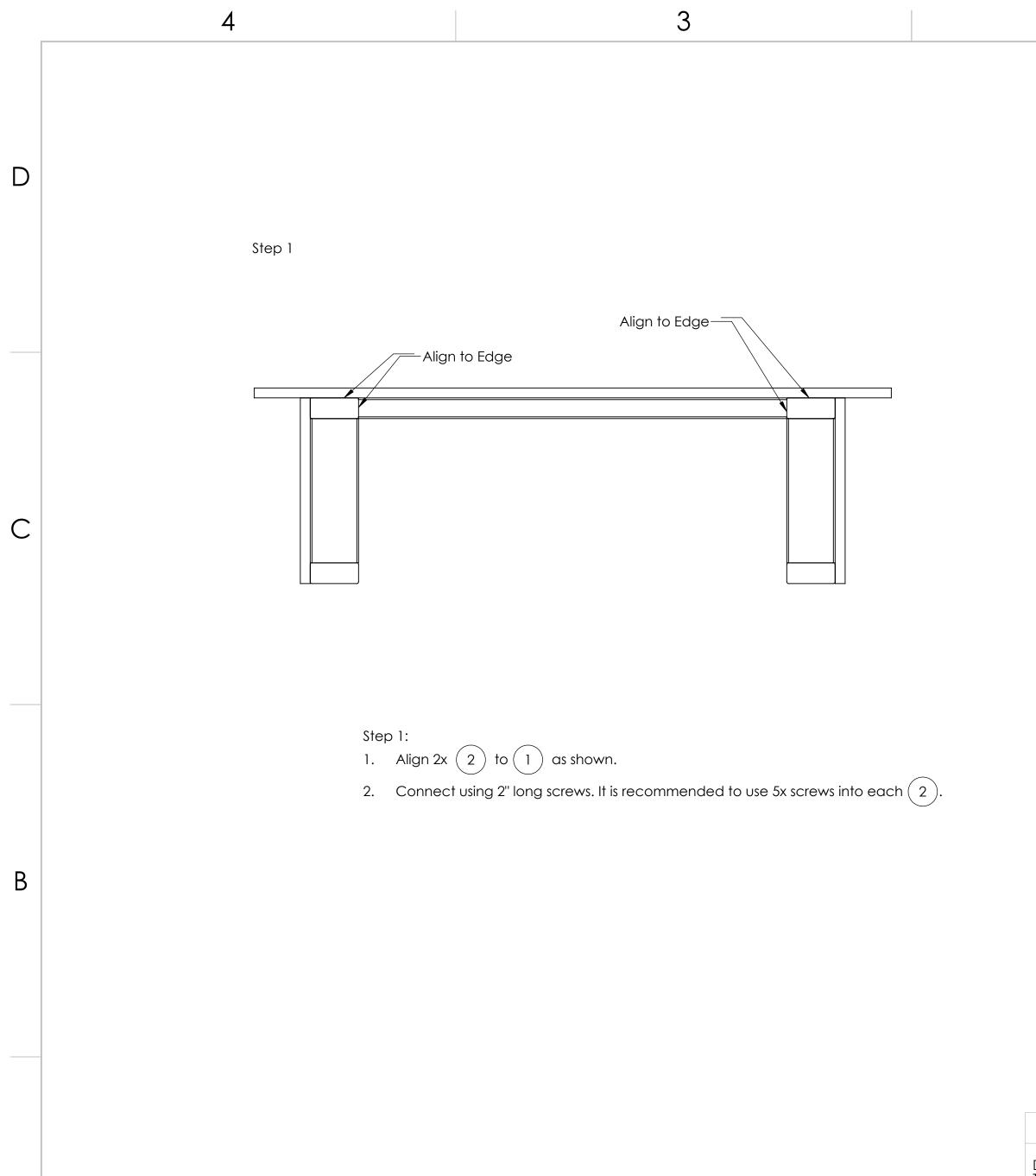
Hardware Needed: #8 x 2" Long Screw - Qty 10

В

| | | | | | | | | \ | 1 |
|---|---|--|---|-----------------------------------|-----------------------------|-----------|-------------------|----------|---|
| | ITEM NO. | | | | DESCRIPTIO | N | (| QTY. | |
| | 1 | | | | sic Build - Fe Assembly | nder Fror | nt | 1 | |
| | 2 | IE-22017 | | HUB - Bo | asic Build - Fe Assembly | nder Side | e | 2 | |
| UNLESS OTHERWISE SPECIFIED: | TEAM | EAM NAME DATE | | FIRST. ROBOTICS 3S SOLIDWO | | | | | |
| | DRAWN | RAWN KAMC 12/30/2021 | | 1 | COMPE | | Modeling Solution | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: | THE INFO THIS DRA PROPERT REPRODI WHOLE V | 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 | | Hub - Simple Bui Fender Assemb | | | | A | |
| | PERMISSI PROHIBIT | on of first ® is Ed. |) | SIZE DWG. NO. | | _ | REV | | |
| | | COMMENTS: | | C | IE-2 | 22010 |) | | |
| do not scale drawing | REMO | REMOVE ALL BURRS AND SHARP EDGES. | | SCALE: 1:6 SHEET 1 | | et 1 o | F 3 | | |
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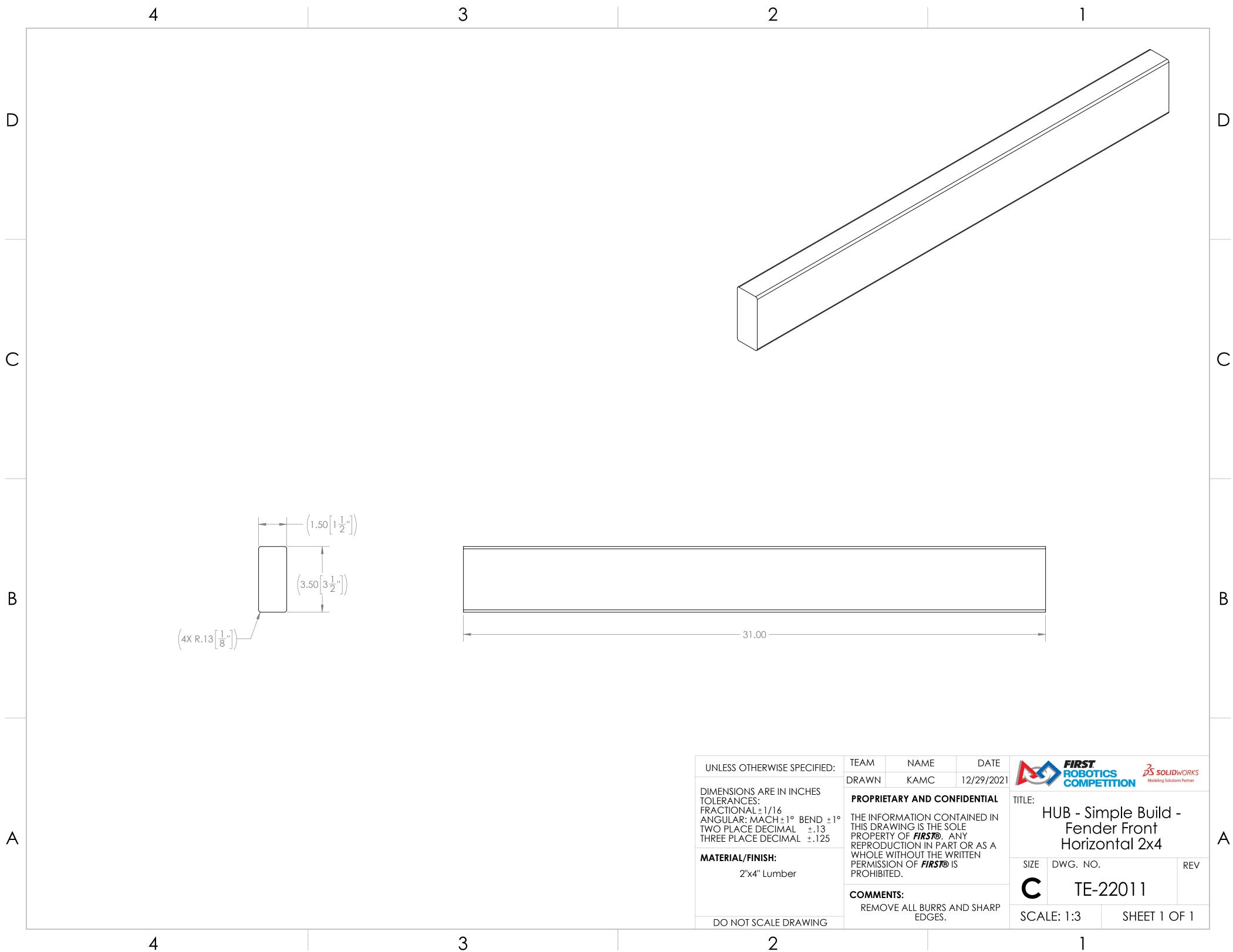


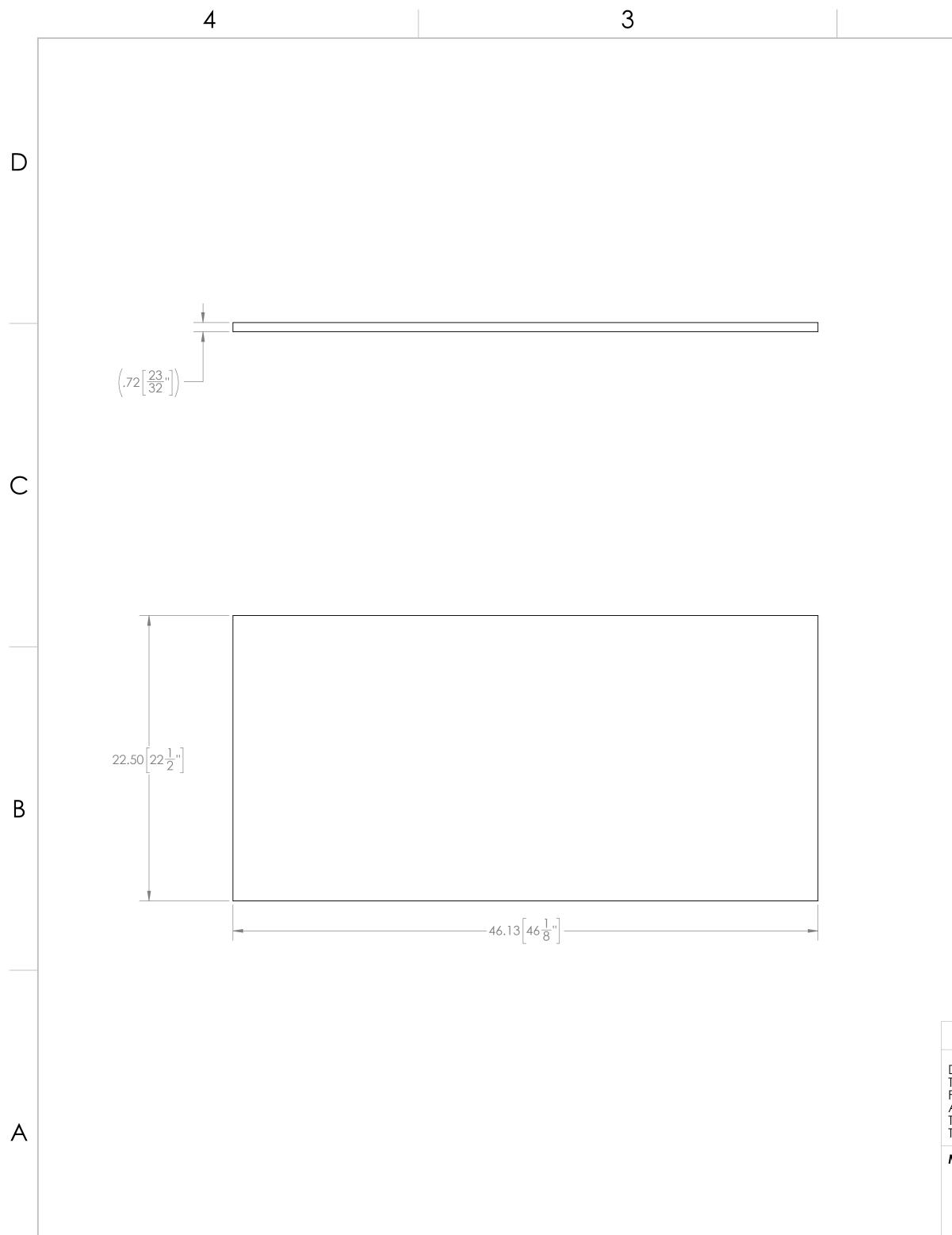




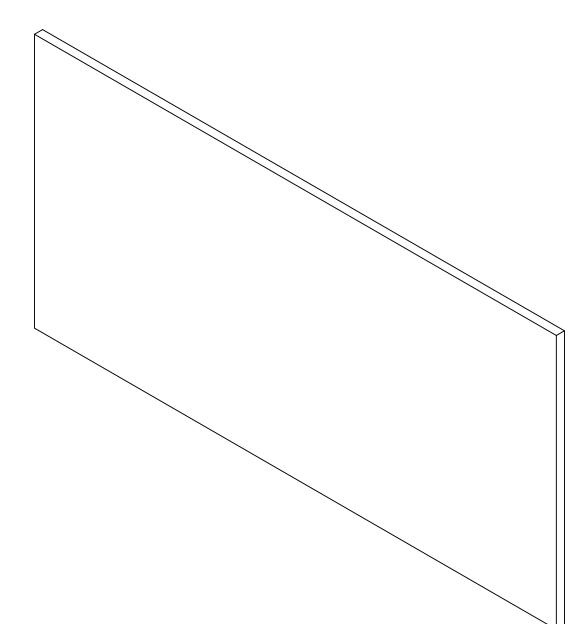
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| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES | TEAM NAN DRAWN KAM | | FIRST. ROBOTIC COMPET | S SOLIDWORKS Modeling Solutions Partner | - |
| TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | PROPRIETARY AN THE INFORMATION THIS DRAWING IS PROPERTY OF <i>FIR</i> REPRODUCTION I | N CONTAINED IN THE SOLE ST® . ANY N PART OR AS A | Hub - Sim Fender A | ple Build - Assembly | A |
| MATERIAL/FINISH: | WHOLE WITHOUT PERMISSION OF F PROHIBITED. | ITTE VYKIIIEN V IRST ® IS | size dwg. no. | REV | - |
| do not scale drawing | | urrs and sharp Ges. | SCALE: 1:6 | SHEET 3 OF 3 | - |
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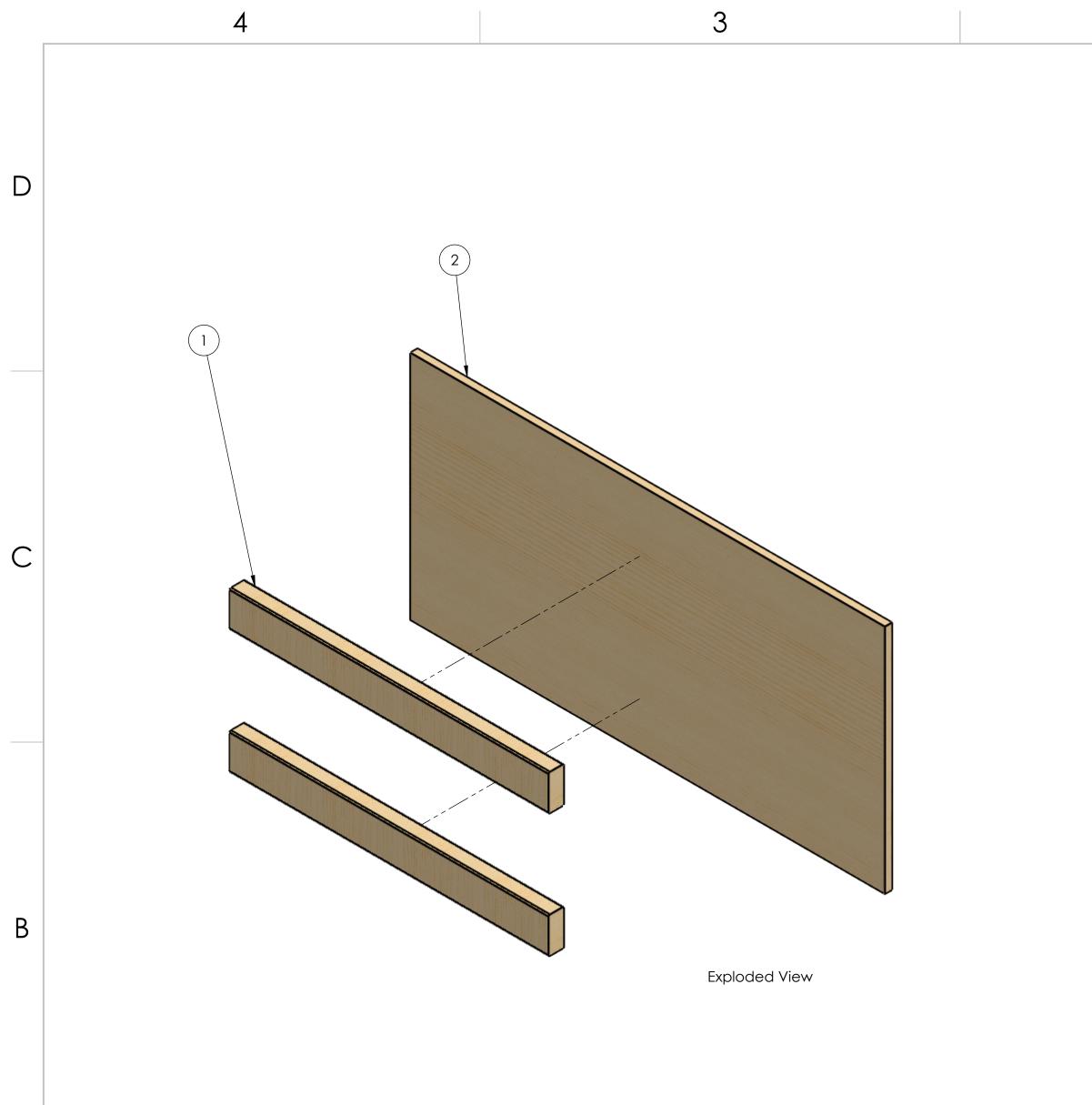


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| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | | FIRST | | 25 50117 | | |
|---|--|---|-------------------------------------|--------------------------------------|--------------|---------------|----------|-------|---|
| | DRAWN | КАМС | 12/29/2021 | | ROBOT | ics TITION | | WORKS | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125 | 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 WE | TAINED IN DLE NY I OR AS A | HUB - Simple Build - Fender Front | | | | _ | A |
| MATERIAL/FINISH: 3/4" Plywood | | ION OF <i>FIRST</i> ® IS | SIZE DWG. NO. | | | • | REV | | |
| | COMME | NTS: | | C | IE- | 2201 | 2 | | |
| do not scale drawing | REMC | VE ALL BURRS A EDGES. | ND SHARP | SCA | _E: 1:6 | SH | IEET 1 C | DF 1 | |
| 2 | | | | | 1 | | | | - |

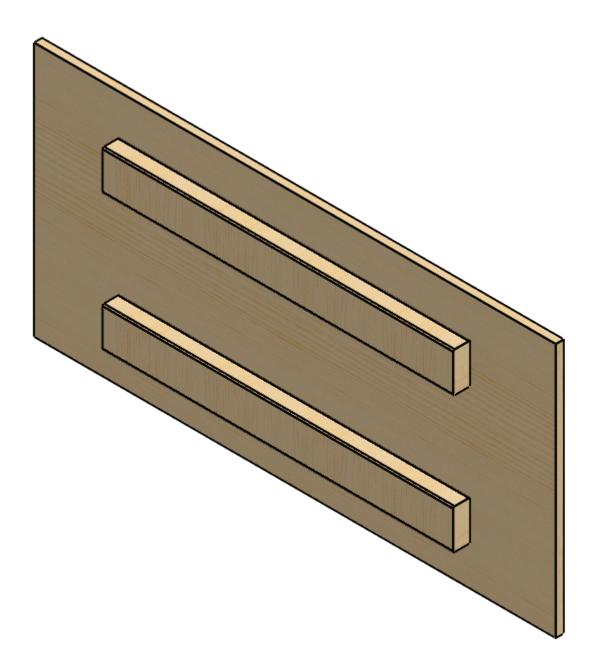


Step 1:

А

- 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).

3



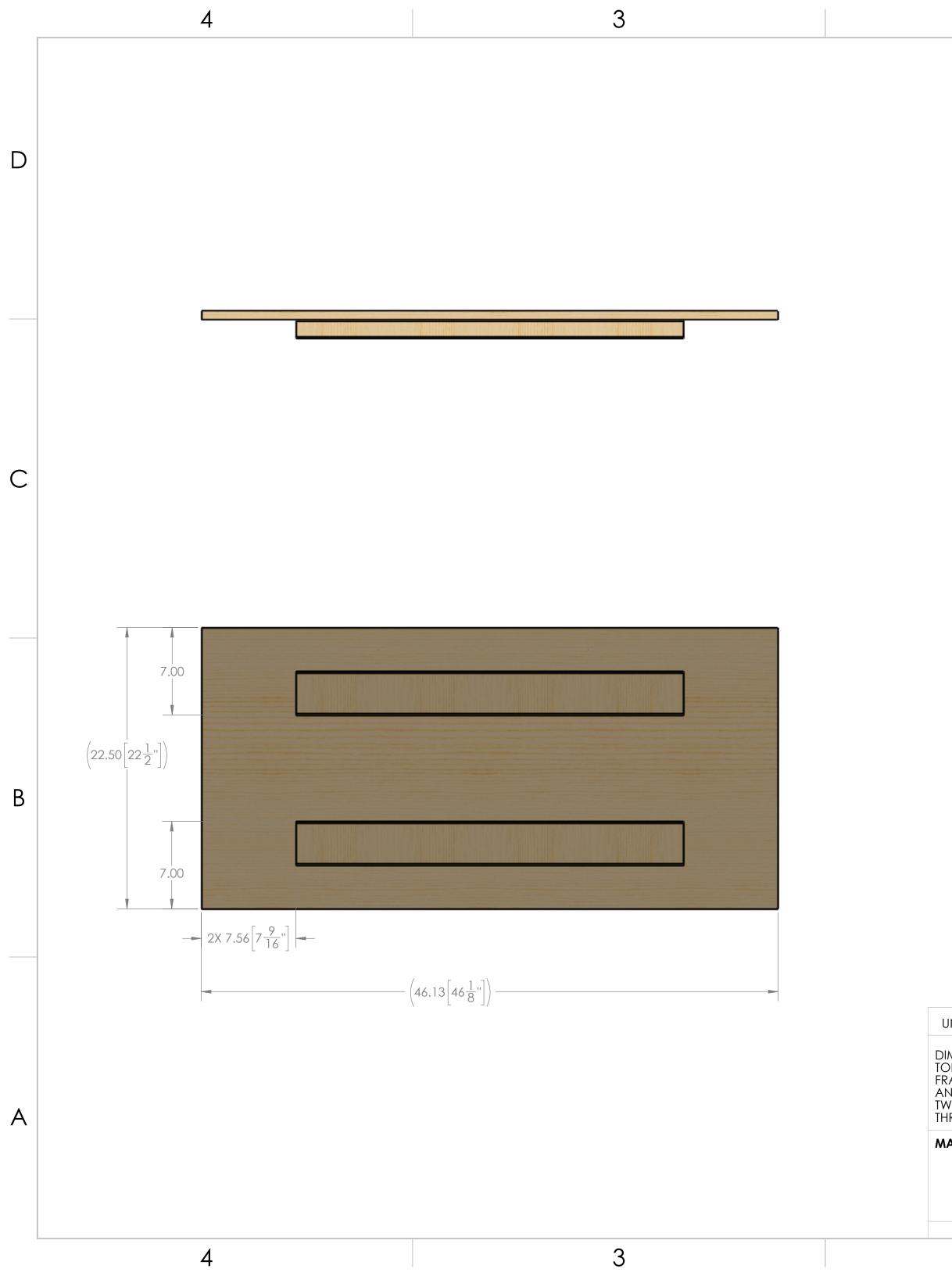
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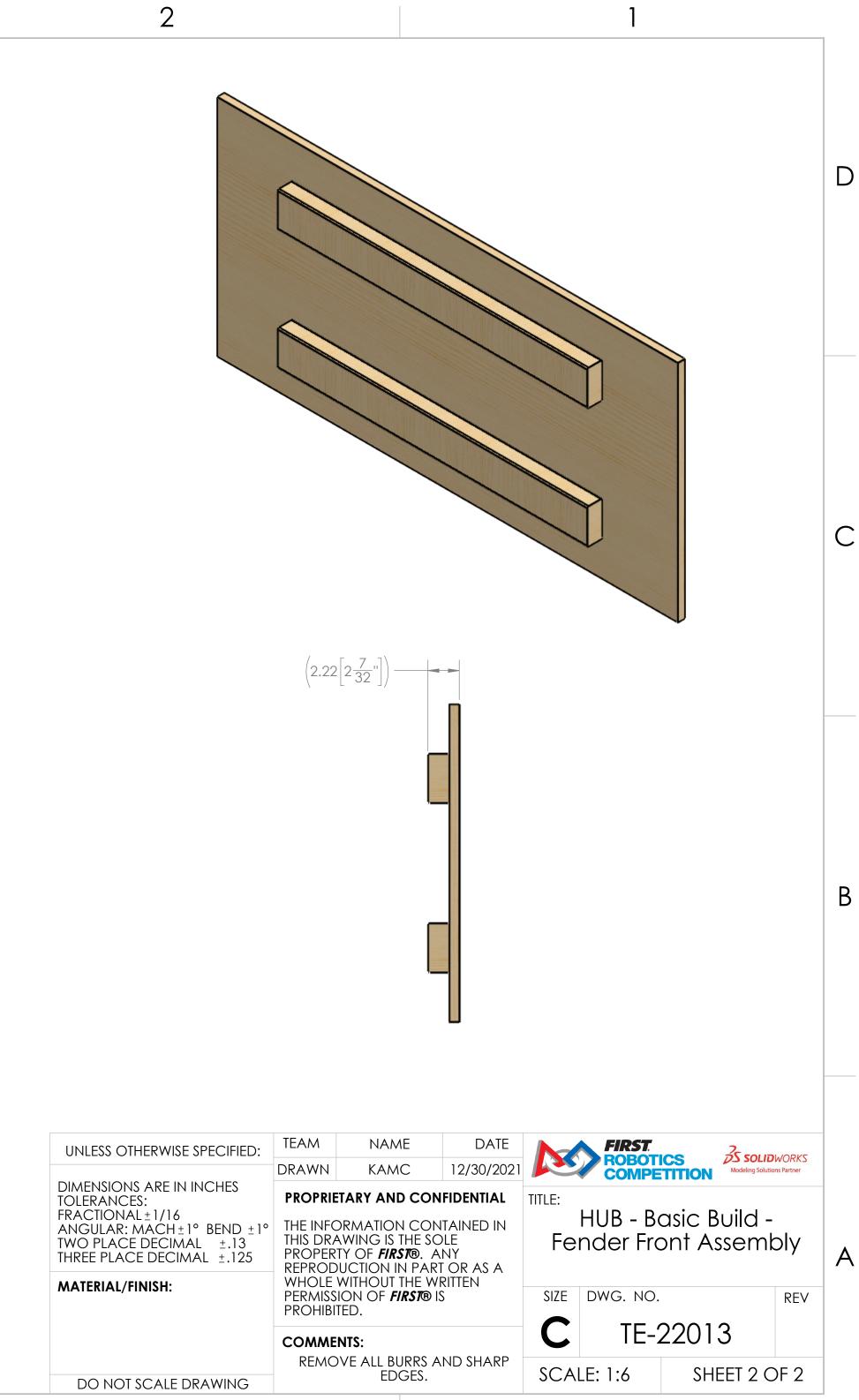
Hardware Needed: #8 x 2" Long Screws - Qty 14

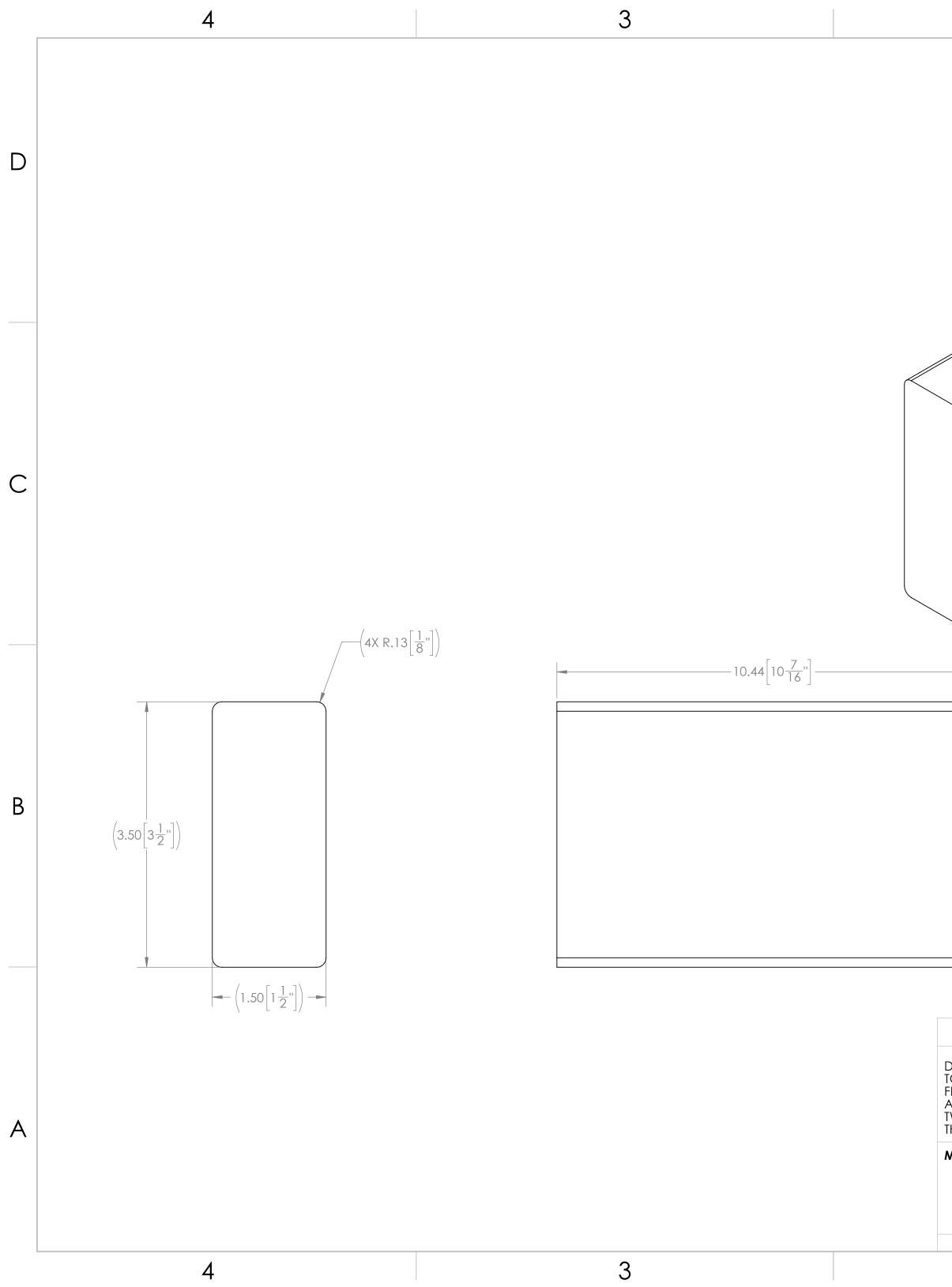
| | | | | | | | | _ |
|--|--|--|----------|---|--|-------|--|---|
| | ITEM NO. | | | | DESCRIPTIO | Ν | QTY. | |
| | 1 | TE-22011 | HUB - Si | HUB - Simple Build - Fender Front Horizontal 2x4 | | | | |
| | 2 | TE-22012 | | HUB - Si | mple Build - Fe | 1 | | |
| UNLESS OTHERWISE SPECIFIED | TEAM | NAME | DATE | | FIRST | 350 | OLID WORKS | - |
| | DRAWN | RAWN KAMC 12/30/2021 | | | ROBOT COMPE | | SOLIDWORKS deling Solutions Partner | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ± TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: | THE INFC THIS DRA PROPERT REPROD 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 | | | HUB - Basic Build Fender Front Asse | | | A |
| | PERMISSI PROHIBIT | ION OF FIRST® IS TED. | S | SIZE | SIZE DWG. NO. | | REV | |
| | | COMMENTS: | | | TE- | 22013 | | |
| DO NOT SCALE DRAWING | KLMO | REMOVE ALL BURRS AND SHARP EDGES. | | | ALE: 1:6 | SHEET | 1 OF 2 | |
| 2 | | | | | 1 | 1 | | _ |

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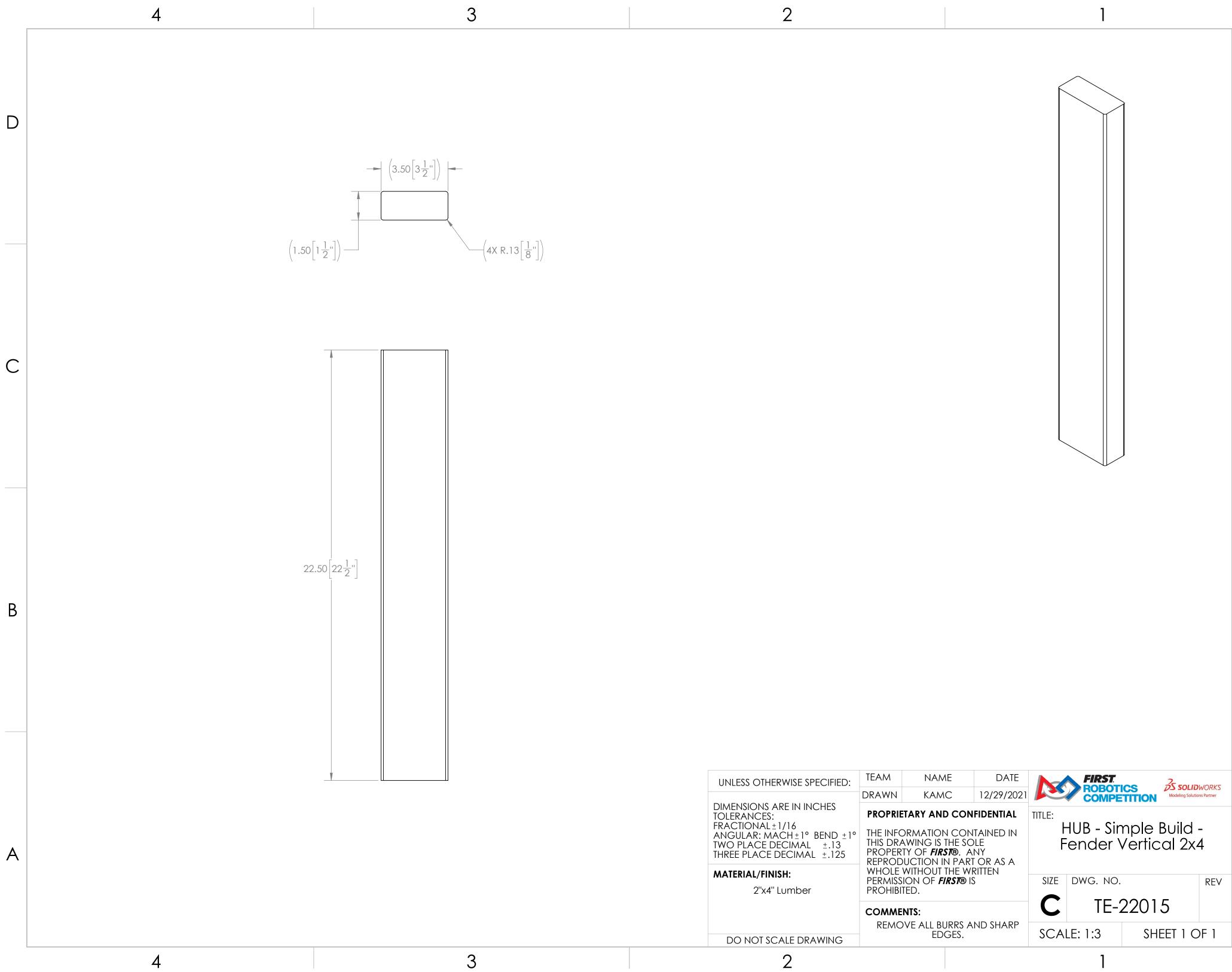
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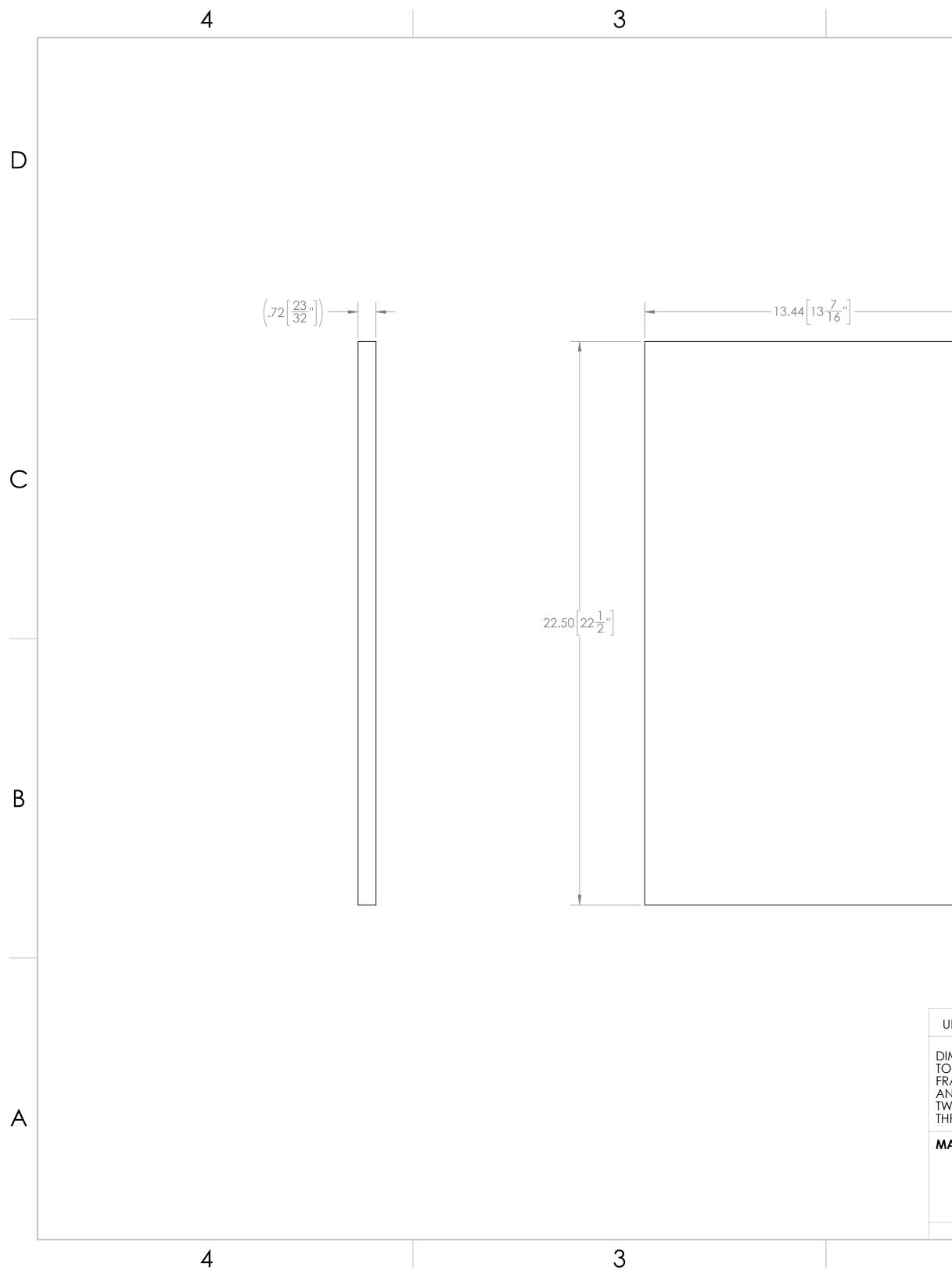
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| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | FIRST ROBO | TICS | S SOLID WORKS | |
| DIMENSIONS ARE IN INCHES | | | 12/29/2021 | | ETITION | Modeling Solutions Partner | - |
| TOLERANCES: FRACTIONAL±1/16 | | ARY AND CON RMATION CON | | TITLE: HUB - S | imple | Build - | |
| ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.13 | THIS DRAV | VING IS THE SC (OF FIRST ®. A | LE | HUB - S Fender S | ide Ho | prizontal | • |
| THREE PLACE DECIMAL ±.125 | reprodu | CTION IN PART | OR AS A | | 2x4 | | A |
| MATERIAL/FINISH: 2"x4" Lumber | PERMISSIO | ON OF FIRST ® IS | | SIZE DWG. NO | Э. | REV | |
| | COMMEN | | | C TE | -2201 | 4 | |
| | | 'E ALL BURRS A | ND SHARP | | | | _ |
| DO NOT SCALE DRAWING | | EDGES. | | SCALE: 1:1 | SH | EET 1 OF 1 | |
| 2 | | | | 1 | | | |

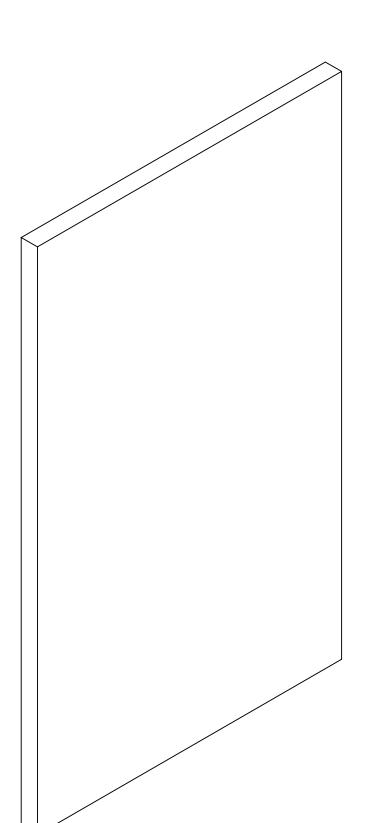


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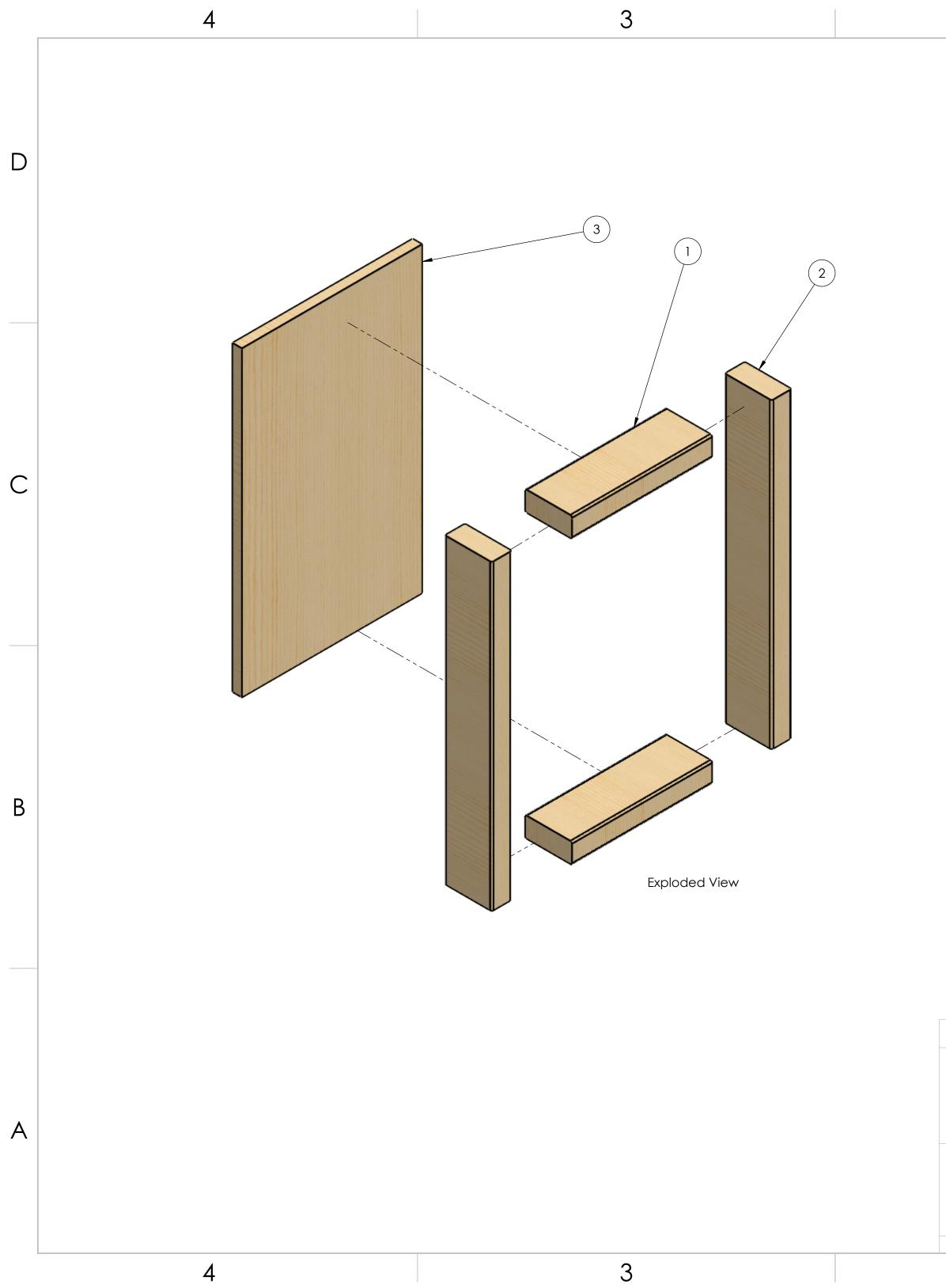
| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | | FIRST. | | S SOLID WORKS | |
|--|--|---|---------------------------------------|-----------------------|---------------|--------------|----------------------------|---|
| | DRAWN | КАМС | 12/29/2021 | | ROBOTI | CS TITION | Modeling Solutions Partner | |
| DIMENSIONS ARE IN INCHES OLERANCES: RACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° WO PLACE DECIMAL ±.13 HREE PLACE DECIMAL ±.125 | THE INFC 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 | ITAINED IN DLE .NY T OR AS A | TITLE: | Build - de | A | | |
| AATERIAL/FINISH: 3/4'' Plywood | - | ION OF FIRST® IS | | SIZE | SIZE DWG. NO. | | REV | _ |
| | | | | C | TE-2 | 2201 | 6 | _ |
| | REMO | VE ALL BURRS A EDGES. | IND SHARP | SCA | LE: 1:3 | SHF | et 1 of 1 | |
| DO NOT SCALE DRAWING | | | | JUALE. 1.J JILLI I OI | | | | |

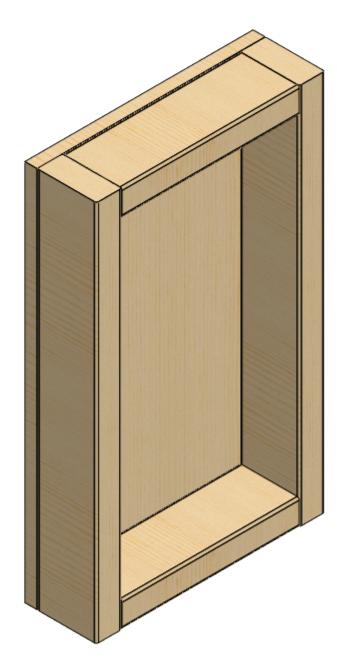
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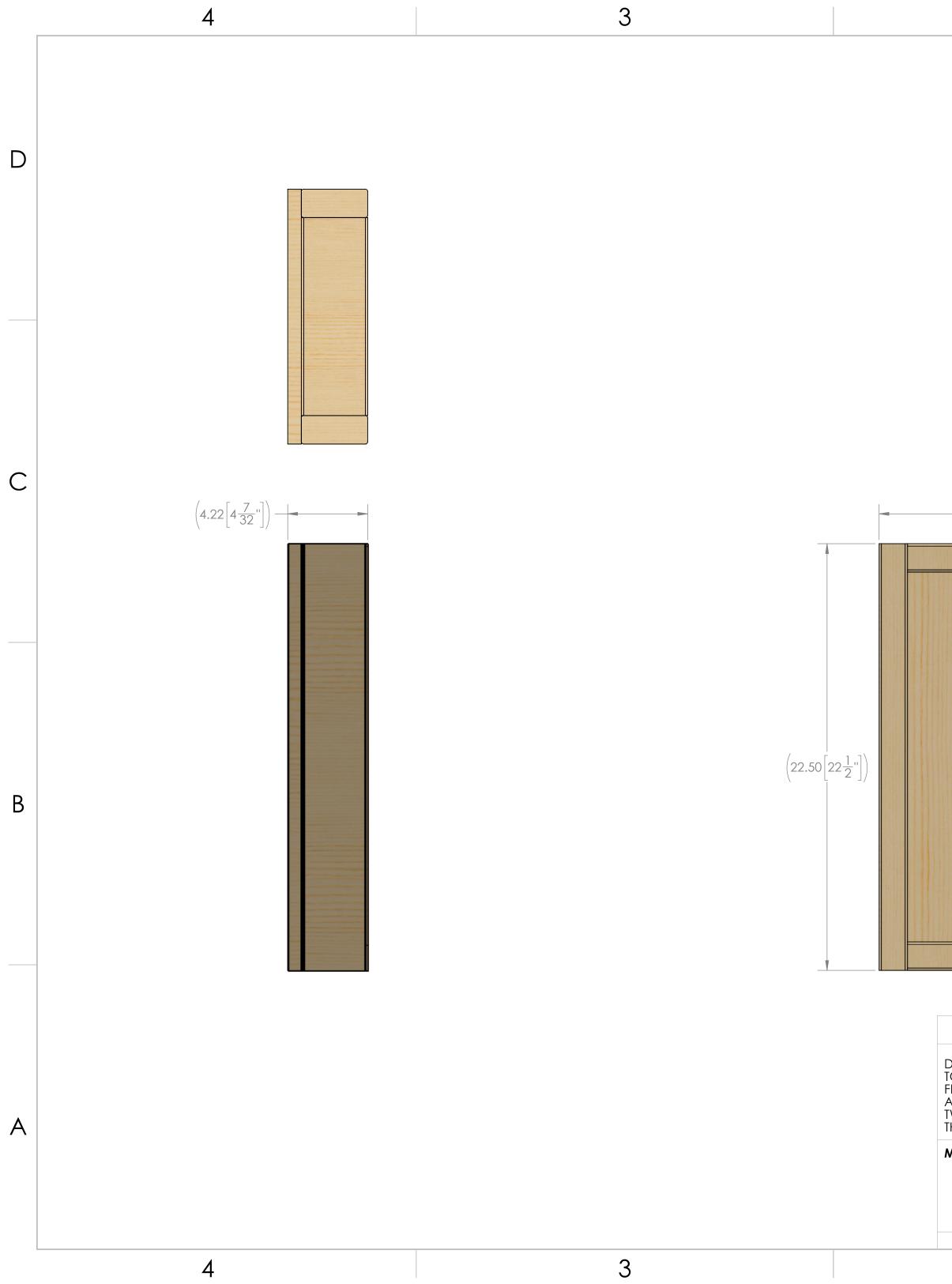


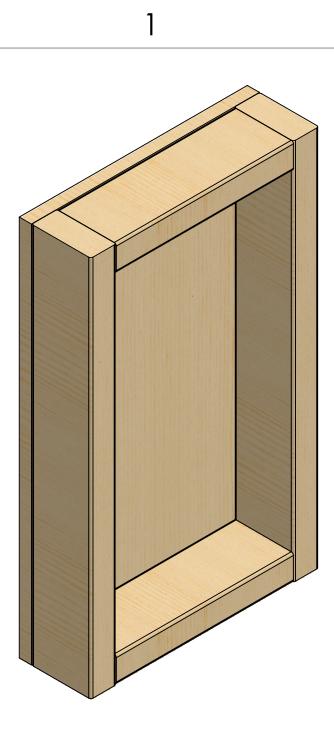
Hardware: #8 x 2" Long Screw - Qty 16 #8 x 2.5" Long Screw - Qty 8

| | | - T | | | | | | 4 |
|--|-----------------------------------|---|---------|--|----------------------------------|-----------------|--|---|
| | ITEM NO. | PART NUM | /BER | | DESCRIPTIO | N | | |
| | 1 | TE-22014 | | HUB - Sirr | nple Build - Fe Horizontal 2> | ender Side 4 | 2 | |
| | 2 | TE-22015 | | HUB - Simp | le Build - Fer 2x4 | der Vertical | 2 | |
| | 3 | TE-22016 | 22016 Н | | HUB - Simple Build - Fender Side | | 1 |] |
| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME DATE | | | FIRST. | 25- | | 1 |
| | DRAWN | RAWN KAMC 12/30/2021 | |)21 | ROBOTI | | DLID WORKS g Solutions Partner | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16 ANGULAR: MACH ± 1° BEND ± 1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | • THE INFO THIS DRA PROPERT | PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <i>FIRST</i> ®. ANY REPRODUCTION IN PART OR AS A | | HUB - Basic Build Fender Side Asser | | | • | A |
| MATERIAL/FINISH: | | on of First ® Is | | SIZE | DWG. NO. | | REV | - |
| | COMMEN | COMMENTS: | | C | IE-2 | 22017 | | |
| do not scale drawing | REMO | REMOVE ALL BURRS AND SHARP EDGES. | | SCALE: 1:4 SHEET | | SHEET 1 | OF 3 | |
| 2 | | | | | 1 | | | - |

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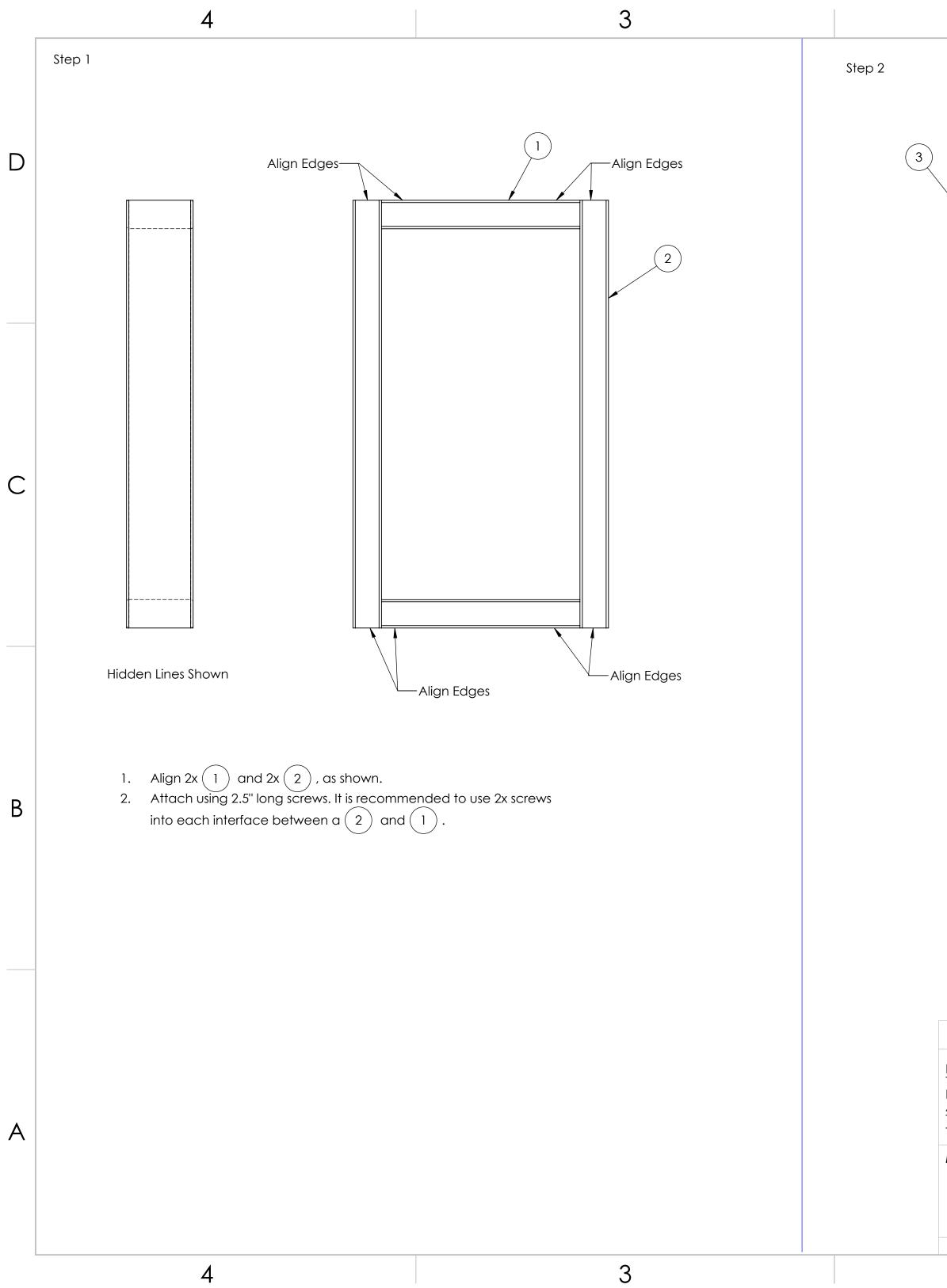


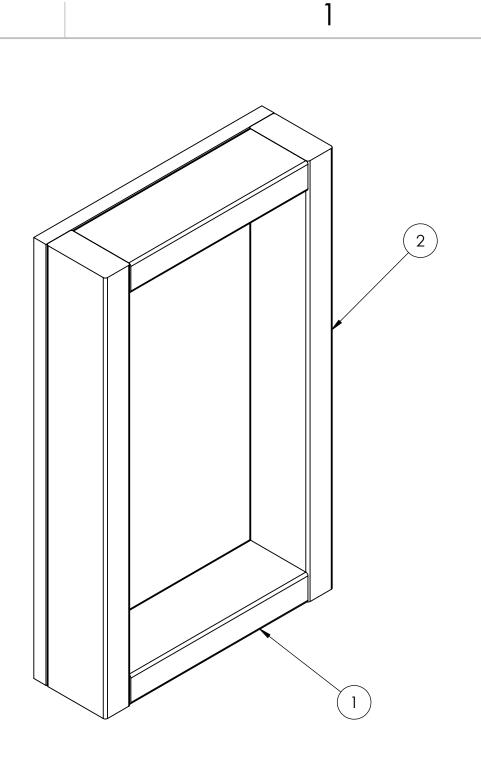
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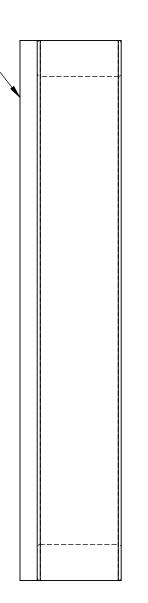
| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | | FIRST. | | S SOLID | | |
|---|---|--|--|-----|-------------------|--------|----------------|------|--|
| | DRAWN | KAMC | 12/30/2021 | | ROBOT | TITION | Mark In Caller | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND±1° TWO PLACE DECIMAL±.13 THREE PLACE DECIMAL±.125 MATERIAL/FINISH: | THE INFO THIS DRA PROPER REPROD WHOLE | TARY AND CON DRMATION CON WING IS THE SC TY OF <i>FIRST</i> ®. A UCTION IN PAR WITHOUT THE W ION OF <i>FIRST</i> ® | TITLE: HUB - Basic Build - Fender Side Assembly SIZE DWG. NO. | | | | | А | |
| | | PROHIBITED. | | | C TE-22017 | | | | |
| | COMME | | | | | | / | | |
| | REMO | VE ALL BURRS A EDGES. | and sharp | SCA | LE: 1:4 | SH | EET 2 C |)F 3 | |
| do not scale drawing | | | | | | | | | |
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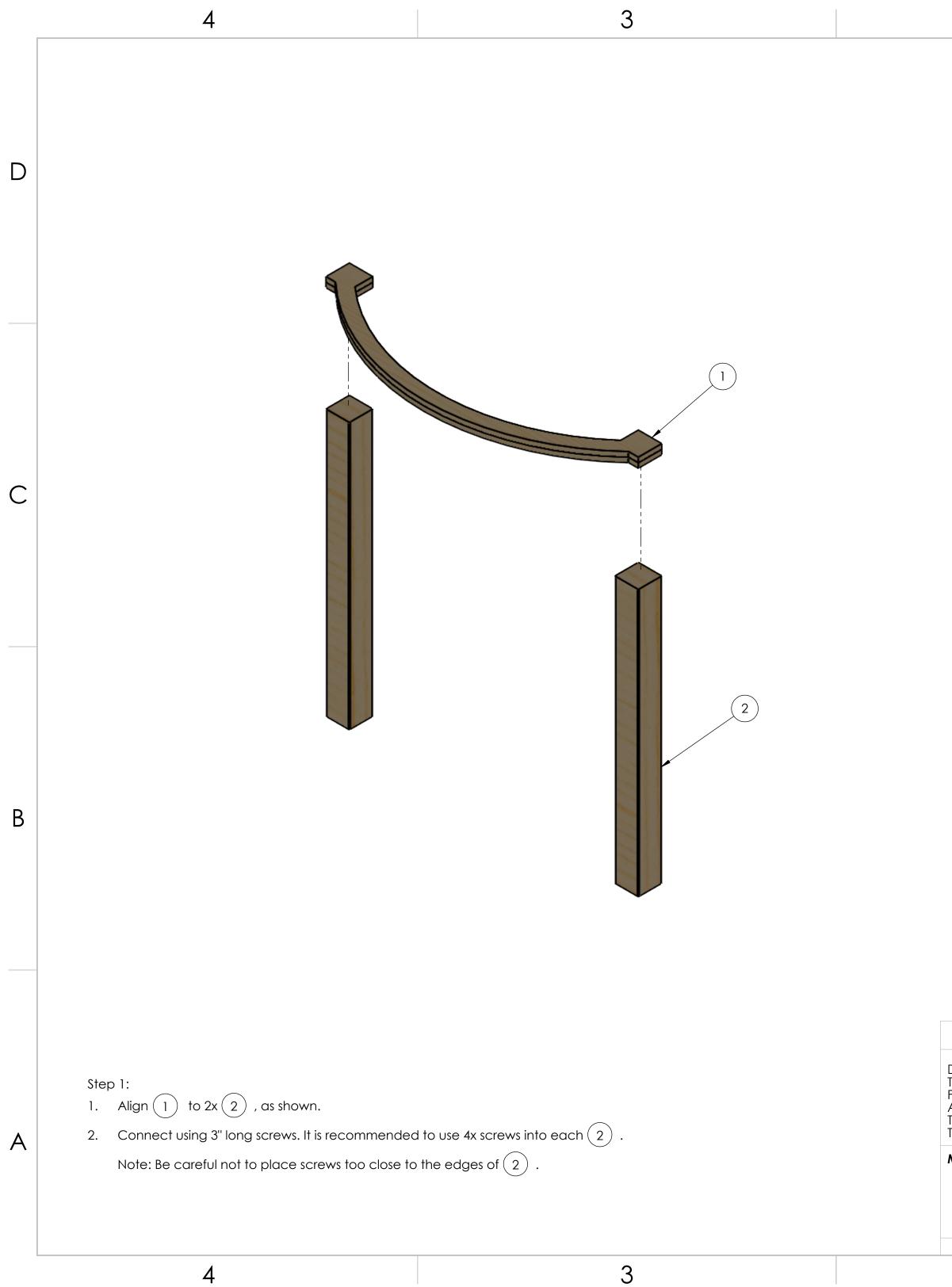


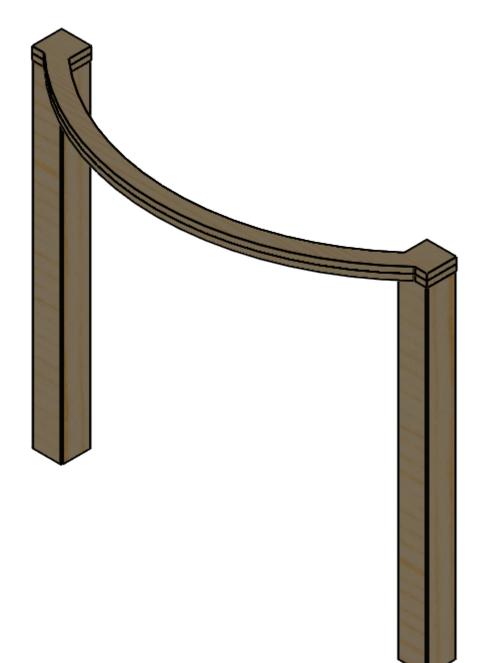
2

Hidden Lines Shown

- Align 3 to the assembly made in Step 1, as shown.
 Attach using 2" Long Screws. It is recommended to use 5x screws into
- 2. Attach using 2" Long Screws. It is recommended to use 5x screws into each $\begin{pmatrix} 2 \end{pmatrix}$ and 3x screws into each $\begin{pmatrix} 1 \end{pmatrix}$.

| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | | FIRST. | 35.50 | | |
|--|--|---|---------------------------------------|---|----------|---------|-------------------------------|---|
| | DRAWN | КАМС | 12/30/2021 | | ROBOTI | | LIDWORKS Solutions Partner | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | THE INFO THIS DRA PROPERT REPRODI | TARY AND CON RMATION CON WING IS THE SC Y OF FIRST ®. A JCTION IN PAR | NTAINED IN DLE ANY T OR AS A | HUB - Basic Build - Fender Side Assembly | | | | |
| MATERIAL/FINISH: | - | VITHOUT THE W ON OF FIRST® I ED. | | SIZE | DWG. NO. | | REV | - |
| | COMMEN | NTS: | | | IE-2 | 22017 | | |
| do not scale drawing | REMO' | VE ALL BURRS A EDGES. | and sharp | SCAL | E: 1:4 | SHEET 3 | OF 3 | |
| 2 | | | | | 1 | | | _ |





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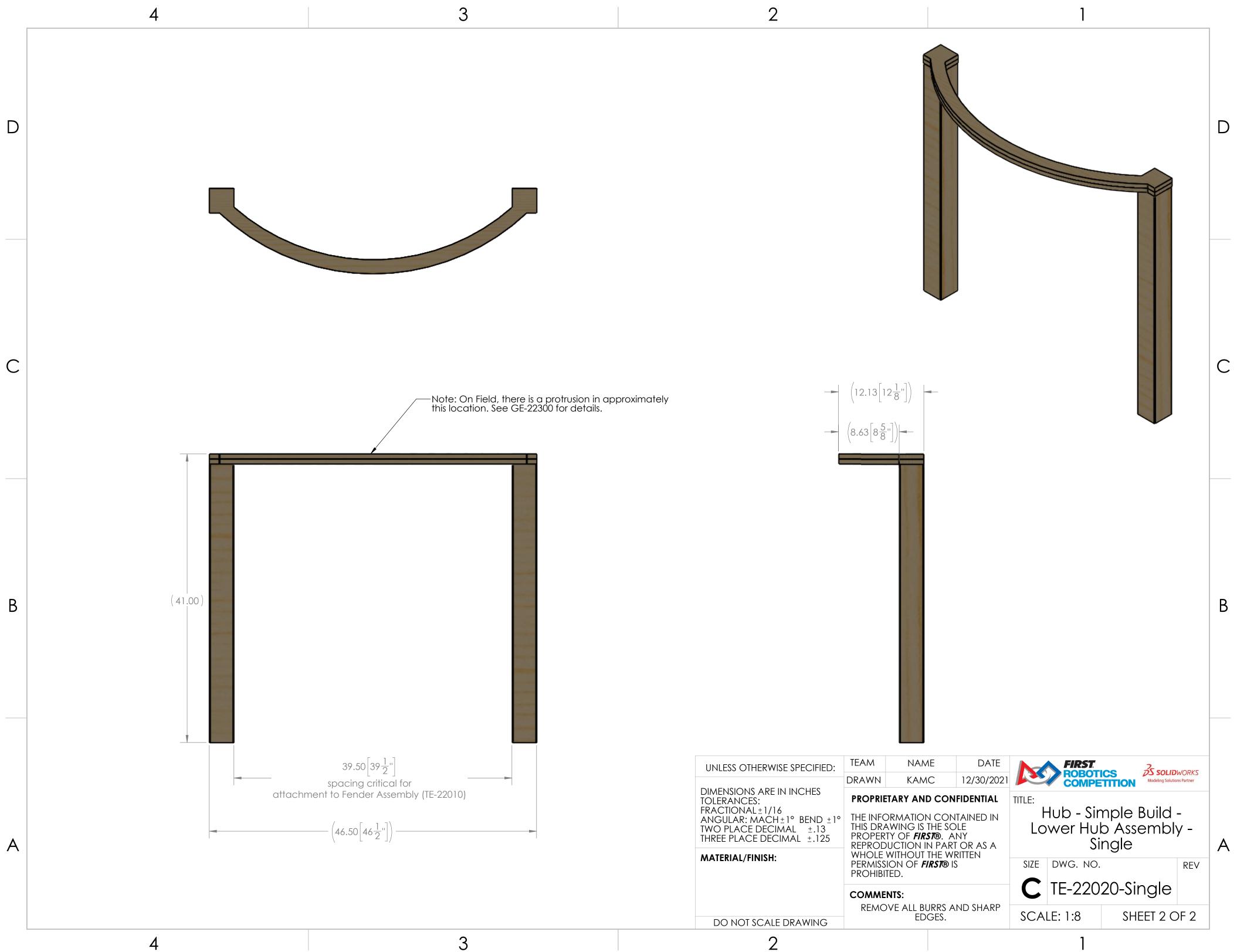
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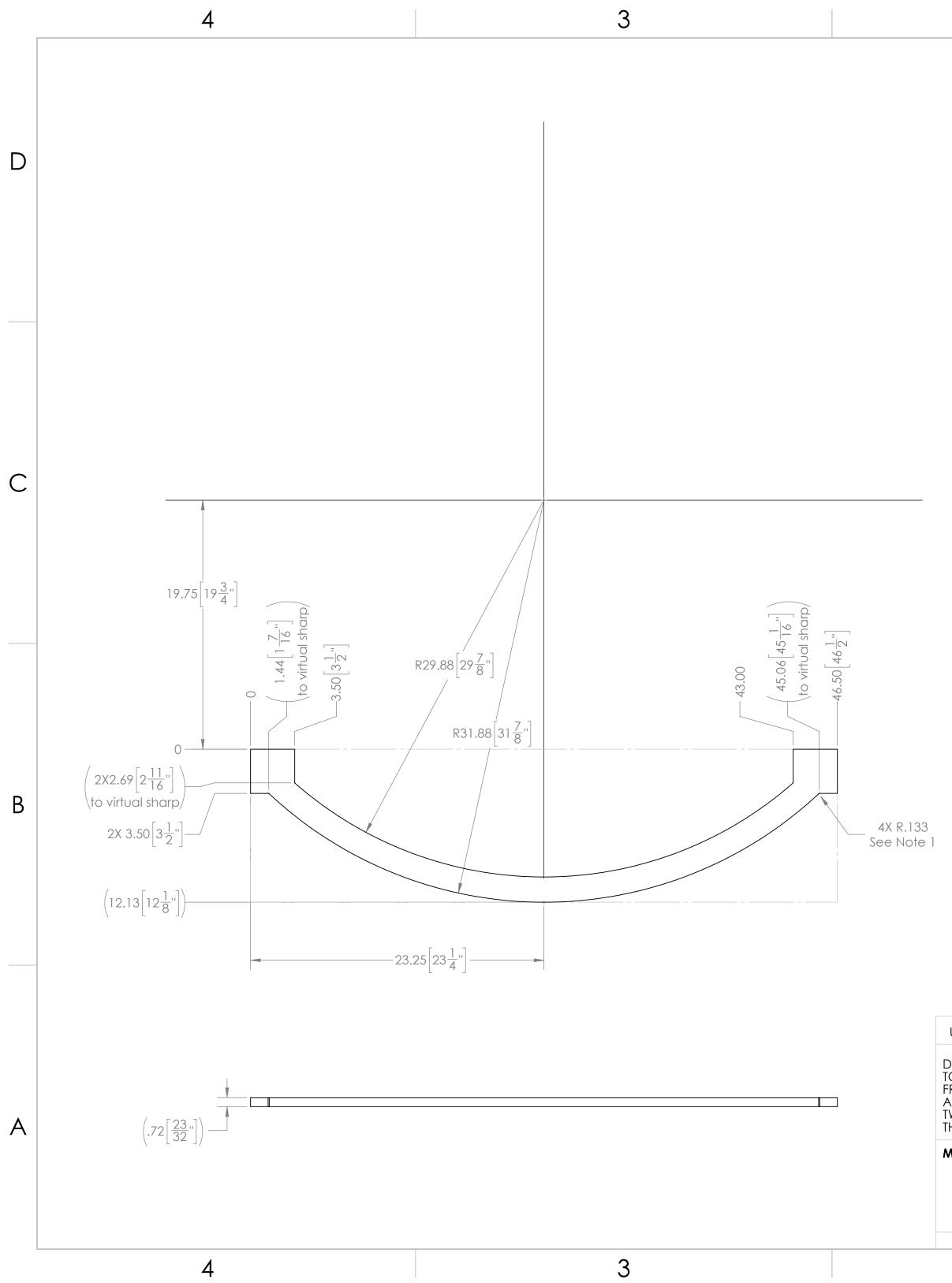
2

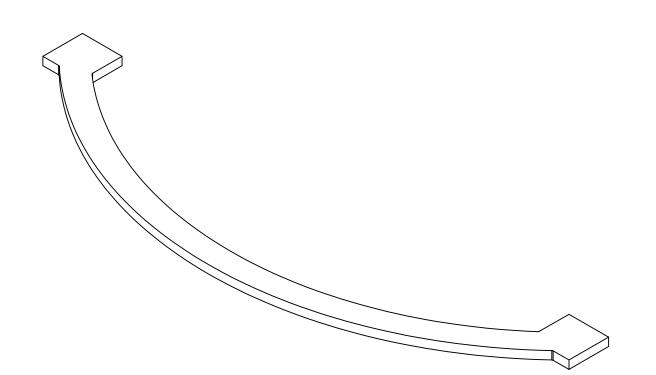
Note: Use TE-22020-Multiple if you are forming more than 1/4 ring.

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

| | ITEM NO. PART NUMBER | | | DESCRIPTION | | | | |
|---|--|--|---|-----------------|--|-------|--|---|
| | 1 | TE-22023-Single | | HUB - Basi | HUB - Basic Build - Lower Hub Ring Assembly | | | |
| | 2 | 2 TE-22025 | | HUB - Sir Lo | nple Build - \ wer Hub Ring | 2 | | |
| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | | | | 25.50 | SOLIDWORKS Modeling Solutions Partner | |
| | DRAWN | KAMC | 12/30/20 | | | | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: | THE INFC THIS DRA PROPERT REPROD WHOLE V | TARY AND CON DRMATION CON WING IS THE SC Y OF <i>FIRST</i> ®. A UCTION IN PART WITHOUT THE WE ON OF <i>FIRST</i> ® IS ED. | TAINED IN DLE NY OR AS A RITTEN | | Hub - Simple Build - Lower Hub Assembly - Single | | | A |
| | | | : All burrs and sharp | | TE-22020-Sing | | Э | |
| do not scale drawing | KEMO | EDGES. | ND SHAKE | SCA | SCALE: 1:8 SHEET | | OF 2 | |
| 2 | | | | | 1 | | | |







Note: 1.

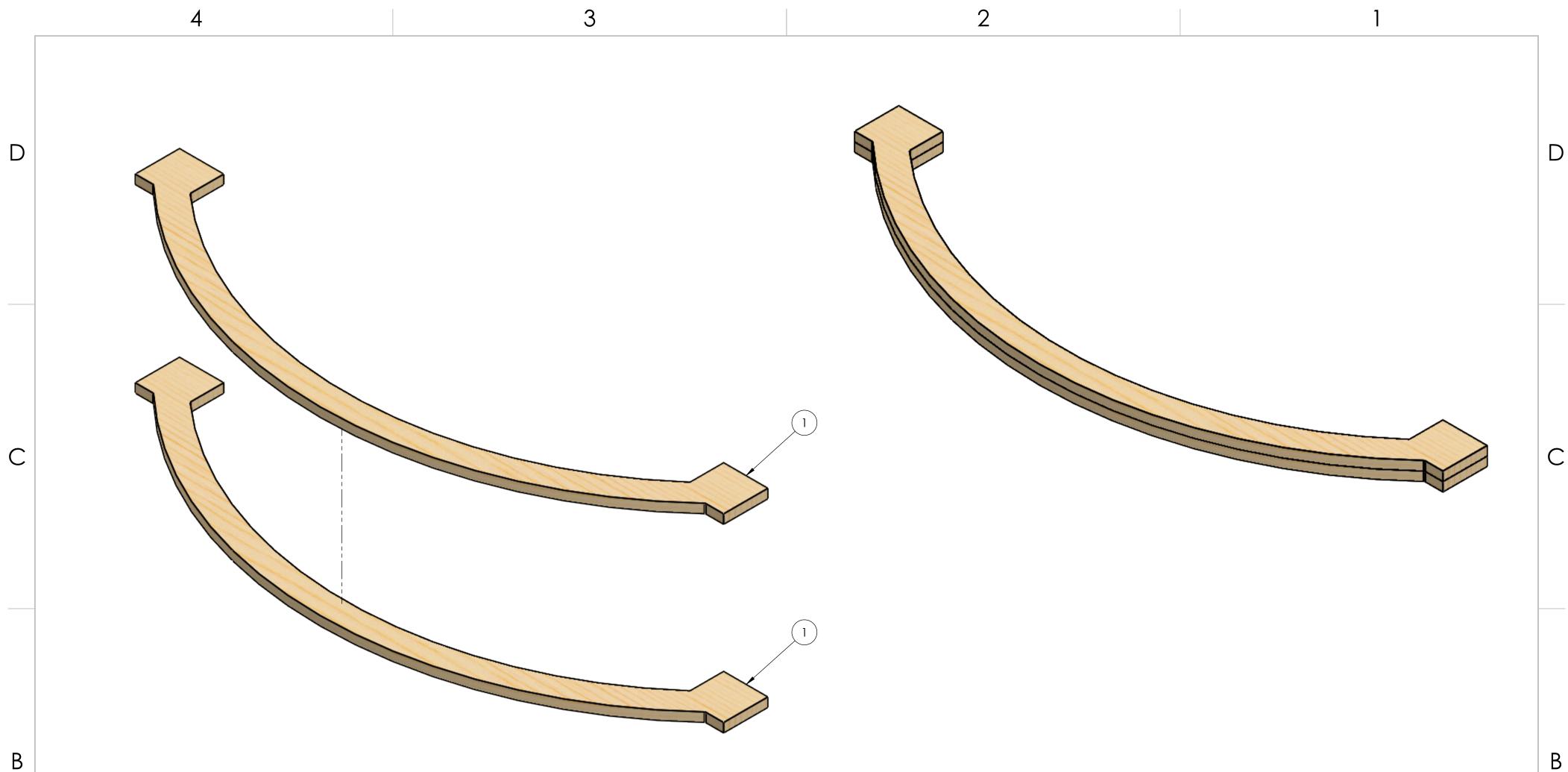
2

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

| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DATE | FIRST. | | | | | |
|--|--|---|--|------------------------|------------|------|--|-----|--|
| | DRAWN KAMC 12/29/2021 ROBOTICS | | | | | | | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 | THE INFO THIS DR/ PROPER REPROD | TARY AND CON DRMATION CON AWING IS THE SC TY OF <i>FIRST</i> ®. A DUCTION IN PAR WITHOUT THE W | Hub - Simple Build - Lower Hub Ring - Single | | | | | A | |
| MATERIAL/FINISH: | Permission of first ® is | | | SIZE DWG. NO. | | | | REV | |
| 3/4" Plywood | PROHIBITED. COMMENTS: REMOVE ALL BURRS AND SHARP EDGES. | | С | TE-220 |)21-Single | | | | |
| | | | SCA | CALE: 1:6 SHEET 1 OF 1 | |)F 1 | | | |
| do not scale drawing | 22 0 20. | | | | | | | · · | |
| 2 | | | | | 1 | | | | |

В

D



Step 1:

А

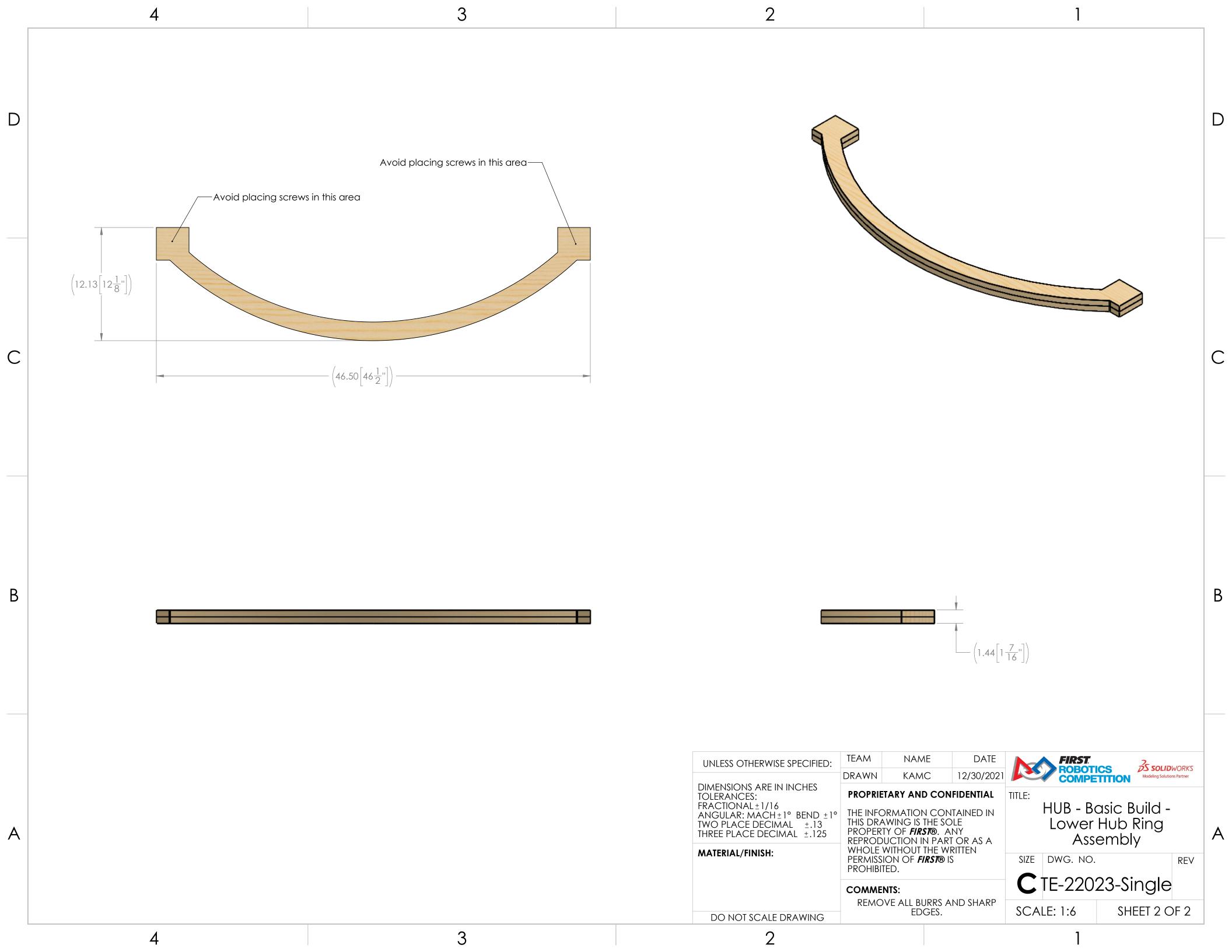
- , as shown. 1. Align 2x (1)
- 2. Connect using 1.25" long screws. It is recommended to use 8x screws. Screws should ONLY be placed around the arc. Avoid placing screws on the rectangular ends.

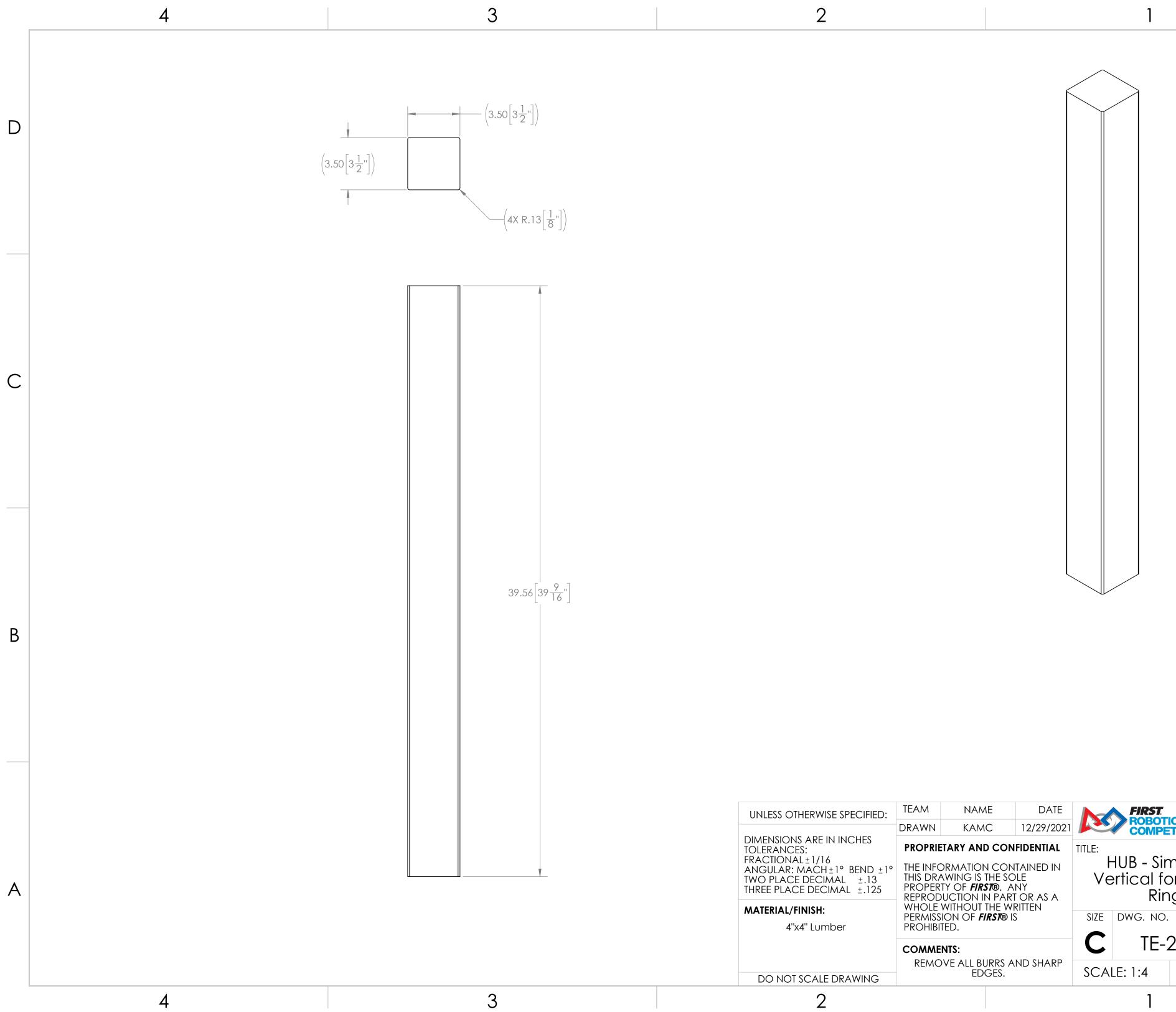
3

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 N | UMBER | DESCRIPTION | | | QTY. | |
| | 1 | 1 TE-22021-Single Hu | | Hub - Sim | ub - Simple Build - Lower Hub Ring - Single | | | |
| UNLESS OTHERWISE SPECIFIED: | TEAM | NAME | DAT | E | FIRST. | 255 | OLID WORKS |] |
| | DRAWN | DRAWN KAMC 12/30/2021 | | | 1 ROBOTICS COMPETITION | | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1 TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 MATERIAL/FINISH: | THE INFC THIS DRA PROPERT REPROD | RMATION CO WING IS THE Y OF FIRST ®. | i rst ®. ANY I IN PART OR AS A | | HUB - Basic Build - Lower Hub Ring Assembly | | | A |
| | PERMISSI PROHIBIT | on of first o Ed. | | SIZE | DWG. NO. TF-220 | 23-Sing | REV | |
| | | COMMENTS: REMOVE ALL BURRS AND SHARF | | | | | | _ |
| do not scale drawing | KEMO | EDGES | | SCA | LE: 1:4 | SHEET 1 | OF 2 | |
| 2 | | | | | 1 | | | |





| UNLESS OTHERWISE SPECIFIED: | IEAM | NAME | DAIE | | FIRST. | | S SOLID | LIOPKE | |
|--|--|---------------------------------|-----------------------|--|------------------------|--------|-------------------|--------|--|
| | DRAWN | КАМС | 12/29/2021 | | ROBOT | TITION | Modeling Solution | | |
| DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.13 THREE PLACE DECIMAL ±.125 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 | | | HUB - Simple Build - Vertical for Lower Hub Ring 4x4 | | | | A | |
| 4"x4" Lumber | PERMISS | ION OF FIRST® IS TED. | > | SIZE | | | | | |
| | COMMENTS: REMOVE ALL BURRS AND SHARP EDGES. | | C IE- | | 22025 | | | | |
| | | | SCALE: 1:4 SHEET 1 OF | |)F 1 | | | | |
| DO NOT SCALE DRAWING | EDGE3. | | | 3CA | ALL. 1.4 SIILLI I OI I | | | 'I I | |
| | | | | | - | | | | |

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