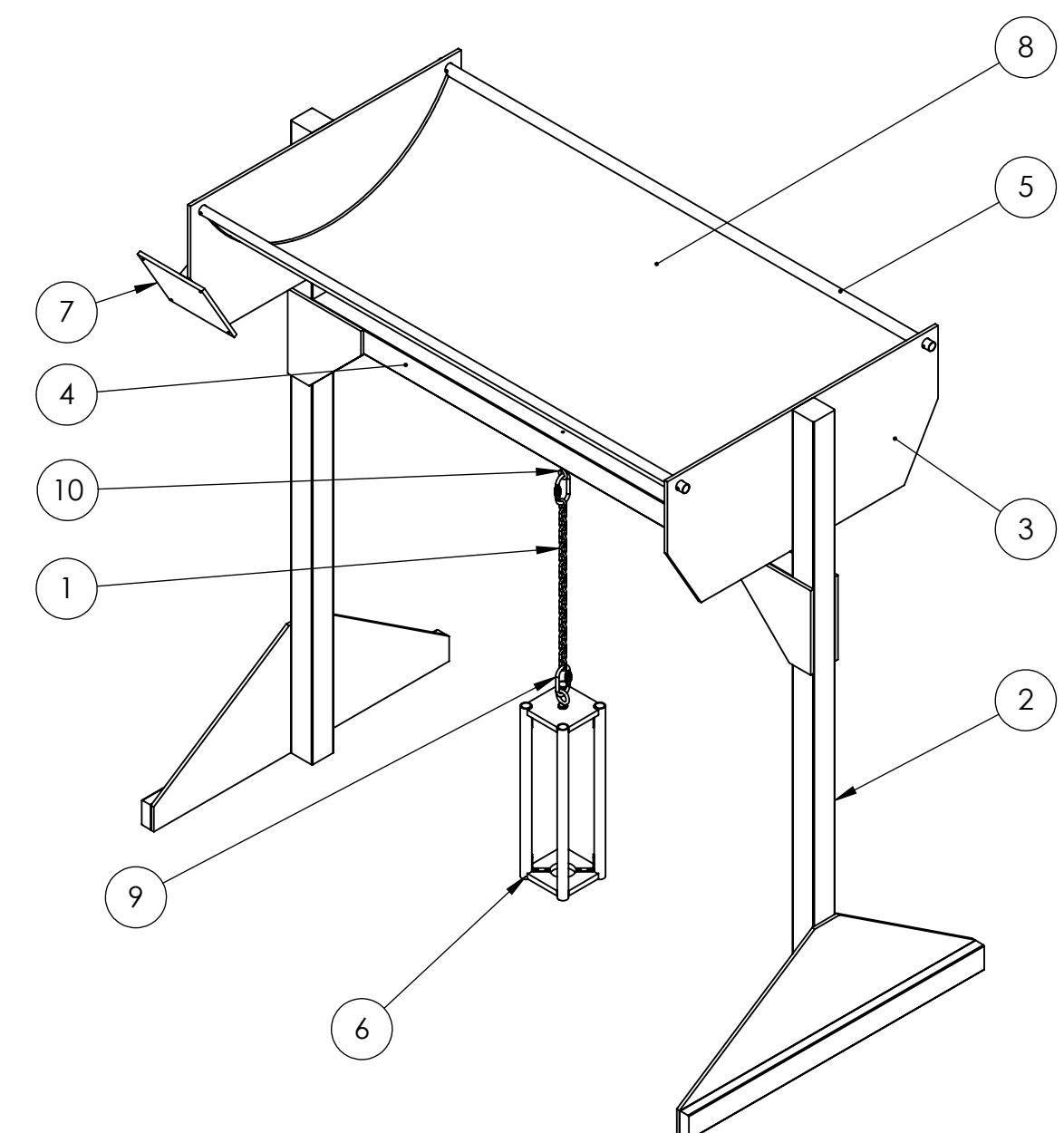
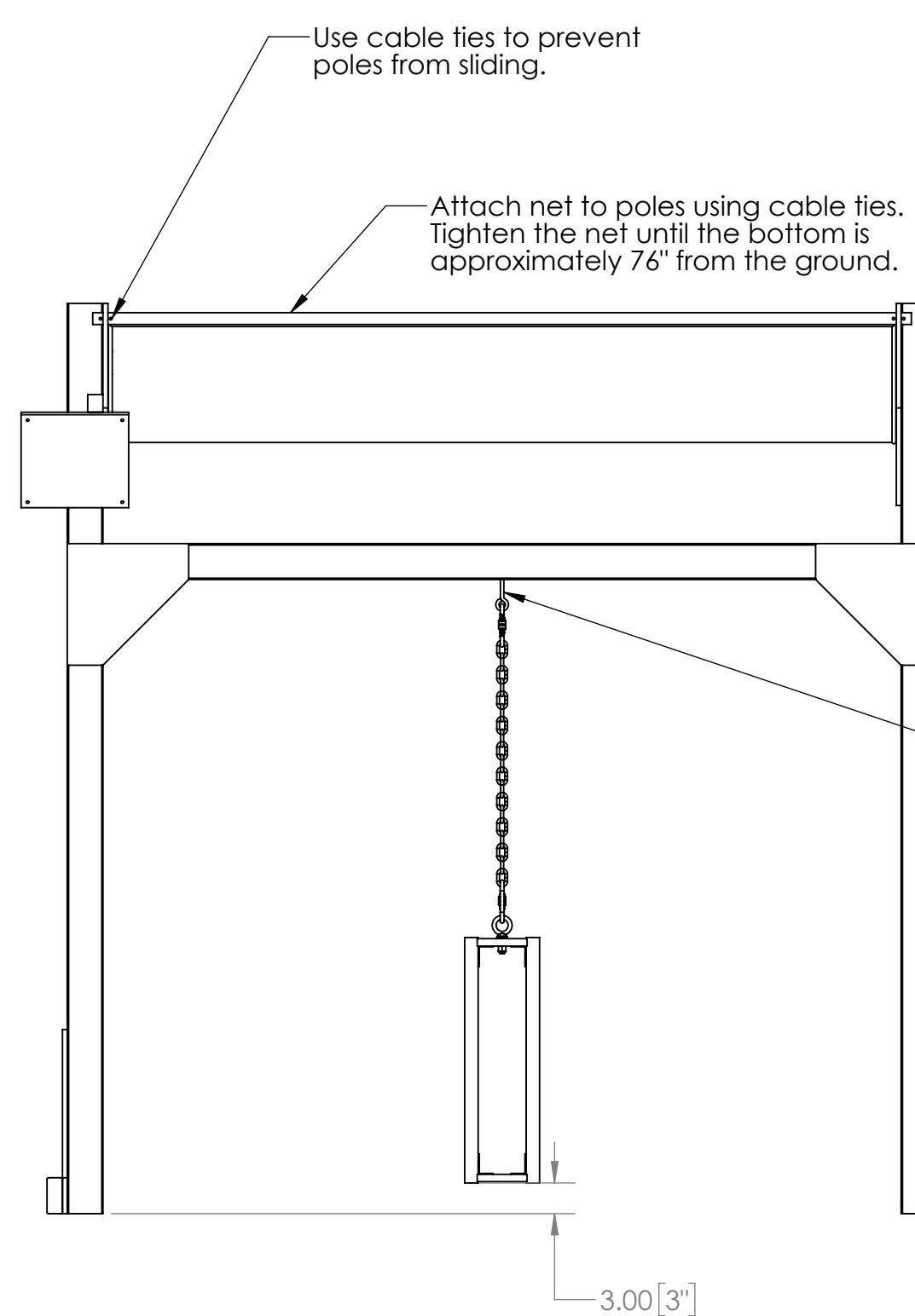
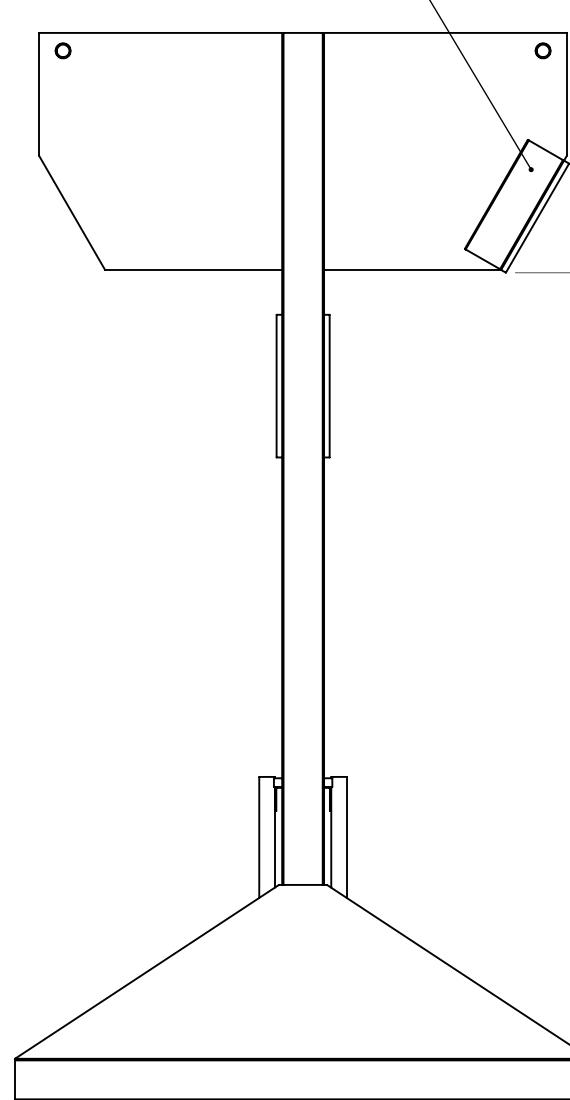


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Ensure that lower edge of the AprilTag is at the correct height and attach using wood screws.



## Notes:

1. Attach all components using wood screws unless otherwise noted.
2. Cage hardware assemblies (chain, eyebolts, carabiners) will be sold at AndyMark.com

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

| ITEM NO. | PART NUMBER       | DESCRIPTION                         | QTY. |
|----------|-------------------|-------------------------------------|------|
| 1        | GE-25229          | Cage Chain                          | 1    |
| 2        | TE-25201          | Leg Assembly                        | 2    |
| 3        | TE-25206          | Barge End                           | 2    |
| 4        | TE-25207          | Horizontal                          | 1    |
| 5        | TE-25208          | Conduit, Net                        | 2    |
| 6        | TE-25210          | Cage Assembly, Team                 | 1    |
| 7        | TE-25214          | AprilTag Holder                     | 1    |
| 8        | TE-25217          | Net                                 | 1    |
| 9        | 3216T41_Carabiner | Carabiner, Locking Steel, .38 thick | 2    |
| 10       | 9496T42           | Screw, Eye .313 x 6"                | 1    |

| TEAM  | NAME | DATE       |
|-------|------|------------|
| DRAWN | DF   | 12/19/2024 |

## PROPRIETARY AND CONFIDENTIAL

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## COMMENTS:

REMOVE ALL BURRS AND SHARP EDGES.

| FIRST<br>ROBOTICS<br>COMPETITION | SOLIDWORKS<br>Modeling Solutions Partner |
|----------------------------------|--|
|----------------------------------|--|

TITLE:  
**Barge, Team**

SIZE DWG. NO. REV

**C** TE-25200

SCALE: 1:16 SHEET 1 OF 1

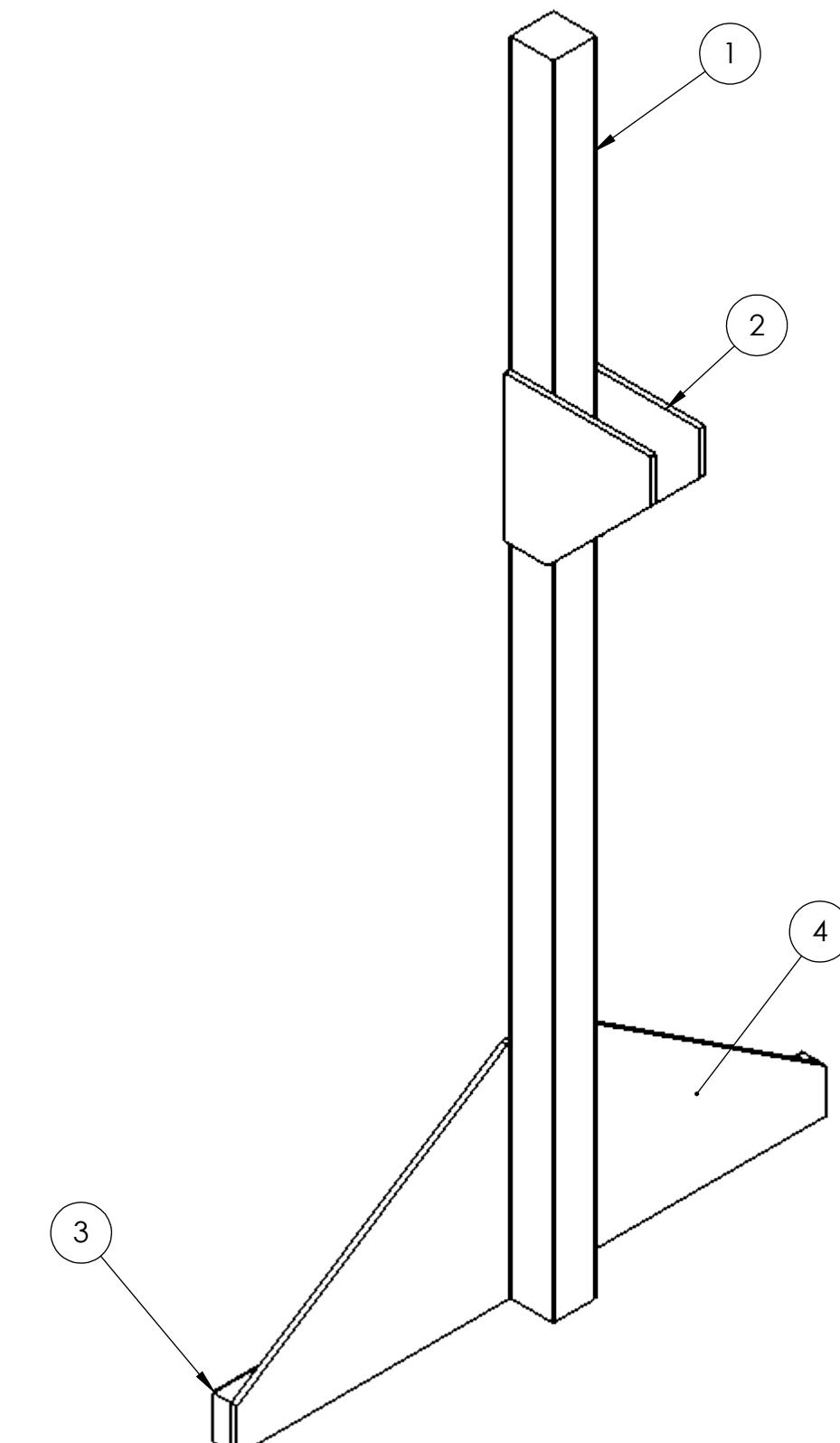
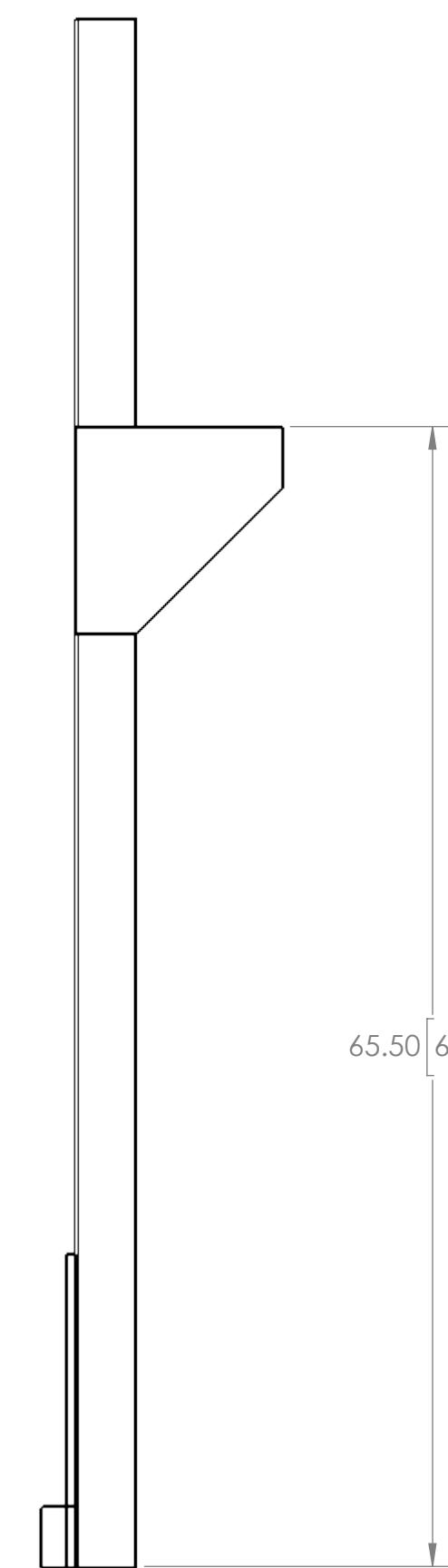
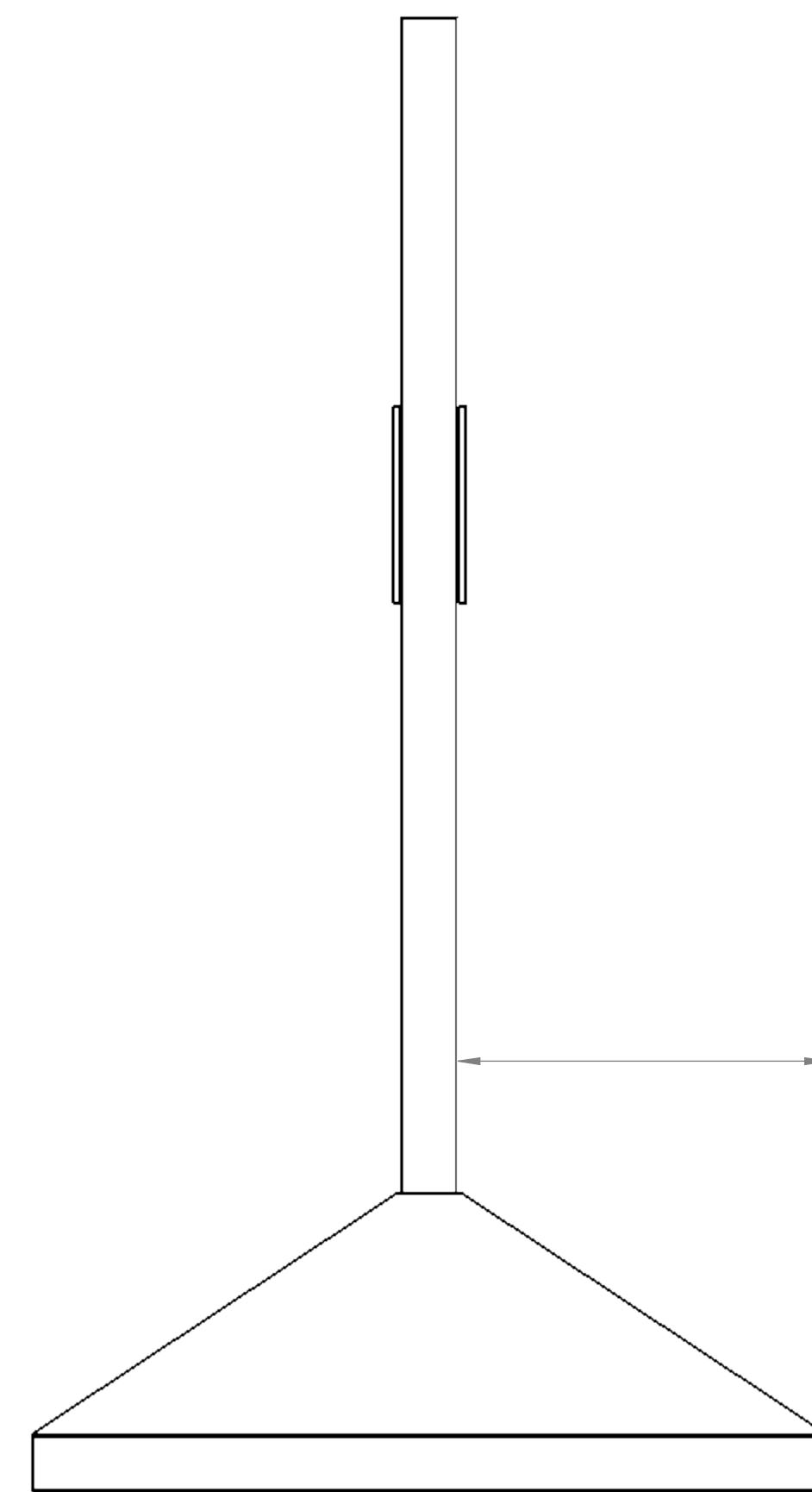
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- Notes:
1. Fasten using 1-1/2" wood screws as needed.
  2. A total of two assemblies needed.

| UNLESS OTHERWISE SPECIFIED:  |  |  | TEAM  | NAME | DATE       |
|--|--|--|-------|------|------------|
|  |  |  | DRAWN | DF   | 12/15/2024 |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |  |  |       |      |            |
| 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. |  |  |       |      |            |
| <b>COMMENTS:</b><br>REMOVE ALL BURRS AND SHARP EDGES.  |  |  |       |      |            |
| DO NOT SCALE DRAWING   |  |  |       |      |            |




FIRST  
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COMPETITION

SOLIDWORKS  
Modeling Solutions Partner

TITLE: Leg Assembly

SIZE DWG. NO. REV

C TE-25201

SCALE: 1:10 SHEET 1 OF 1

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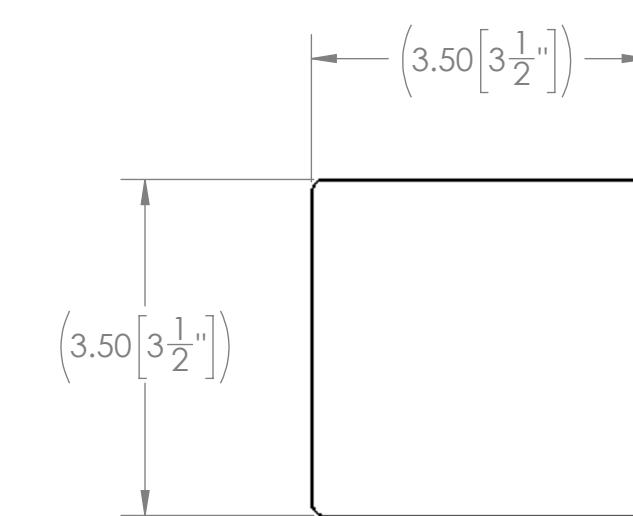
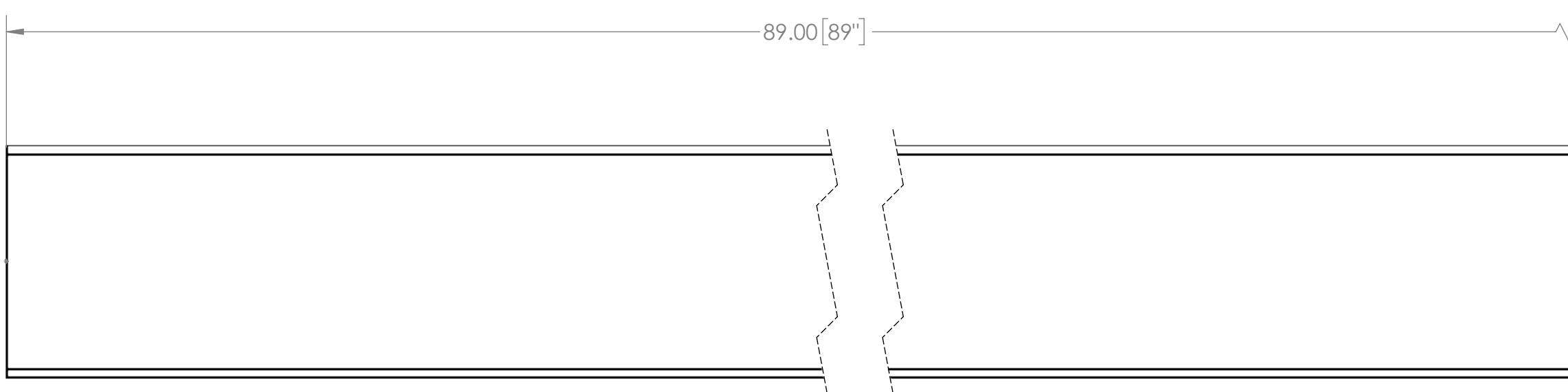
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| UNLESS OTHERWISE SPECIFIED:   | TEAM       | NAME         | DATE       |
| DIMENSIONS ARE IN INCHES<br>TOLERANCES:<br>FRACTIONAL $\pm 1/16$<br>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$<br>TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$ | DRAWN      | DF           | 12/15/2024 |
| <b>PROPRIETARY AND CONFIDENTIAL</b>   |            |              |            |
| 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:<br>4"x4" Lumber  | SIZE       | DWG. NO.     | REV        |
| COMMENTS:<br>REMOVE ALL BURRS AND SHARP EDGES.  | C          | TE-25202     |            |
| DO NOT SCALE DRAWING  | SCALE: 1:2 | SHEET 1 OF 1 |            |

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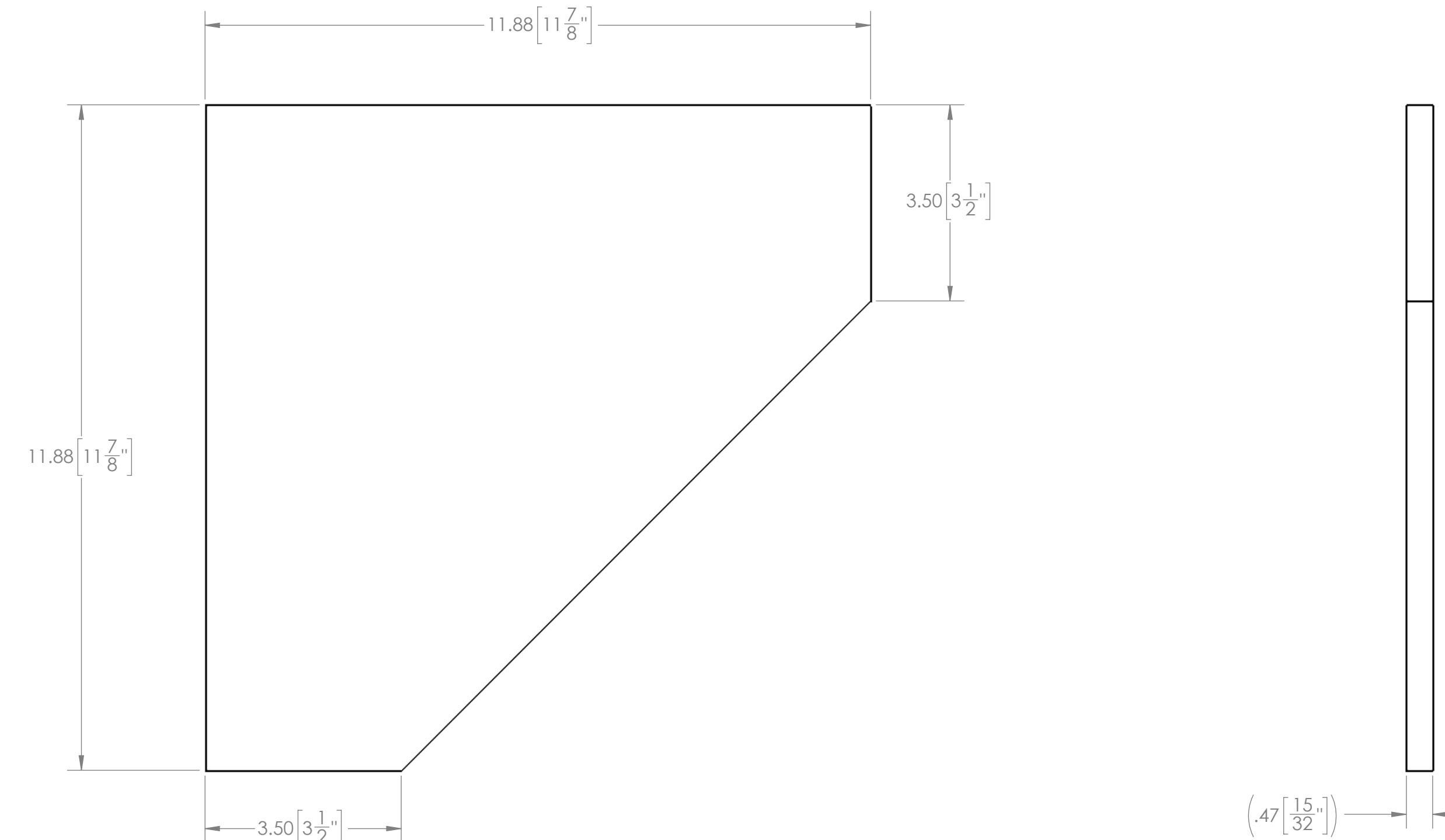
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| UNLESS OTHERWISE SPECIFIED:   | TEAM       | NAME         | DATE       |
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| <b>PROPRIETARY AND CONFIDENTIAL</b>   |            |              |            |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.            |            |              |            |
| MATERIAL/FINISH:<br>1/2" Plywood (15/32 actual)   | SIZE       | DWG. NO.     | REV        |
| COMMENTS:<br>REMOVE ALL BURRS AND SHARP EDGES.  | C          | TE-25203     |            |
| DO NOT SCALE DRAWING  | SCALE: 1:2 | SHEET 1 OF 1 |            |

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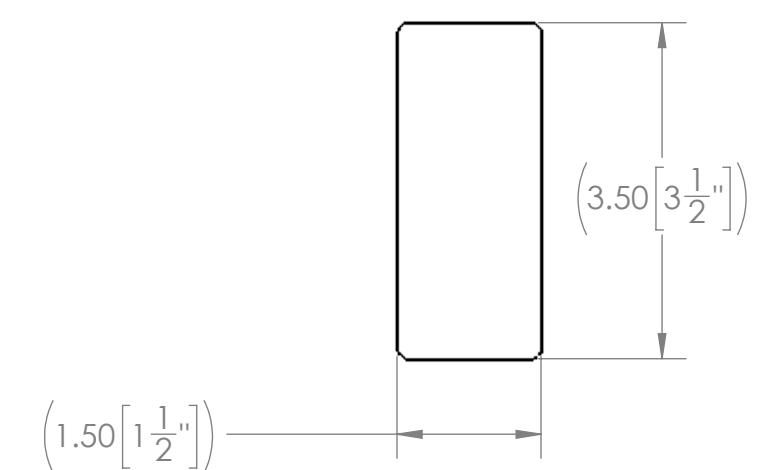
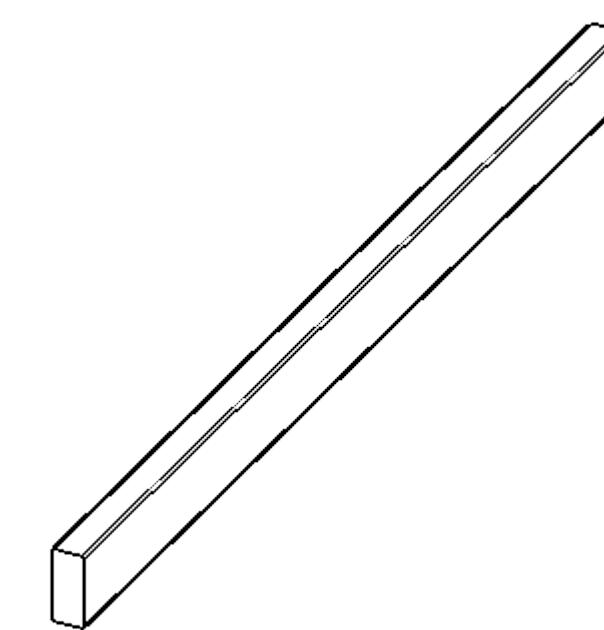
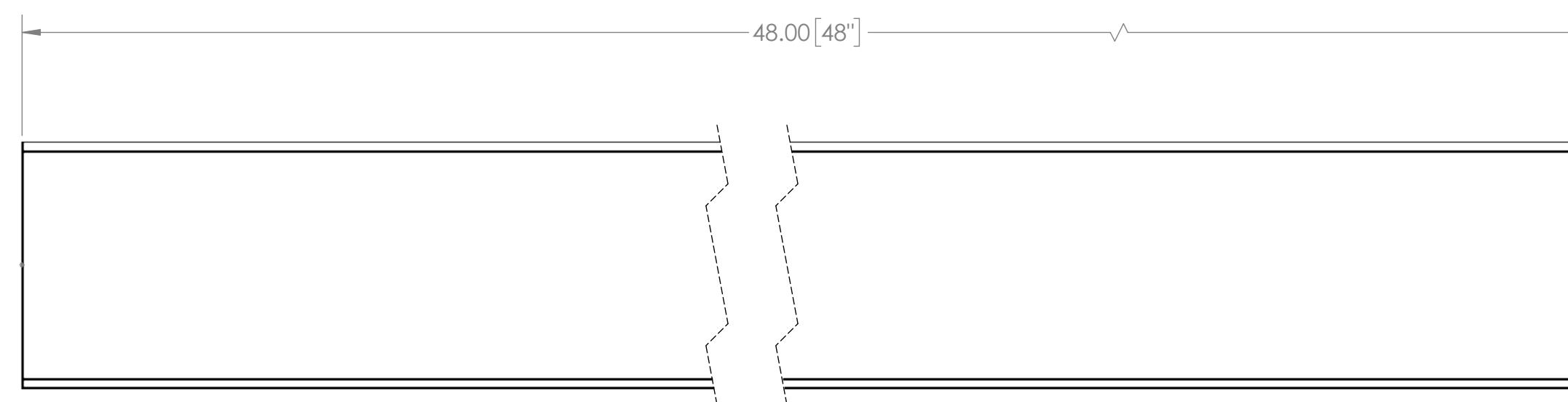
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| UNLESS OTHERWISE SPECIFIED:   | TEAM       | NAME         | DATE       |
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| <b>PROPRIETARY AND CONFIDENTIAL</b>   |            |              |            |
| THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.            |            |              |            |
| MATERIAL/FINISH:<br>2x4 Lumber  | SIZE       | DWG. NO.     | REV        |
| COMMENTS:<br>REMOVE ALL BURRS AND SHARP EDGES.  | C          | TE-25204     |            |
| DO NOT SCALE DRAWING  | SCALE: 1:2 | SHEET 1 OF 1 |            |

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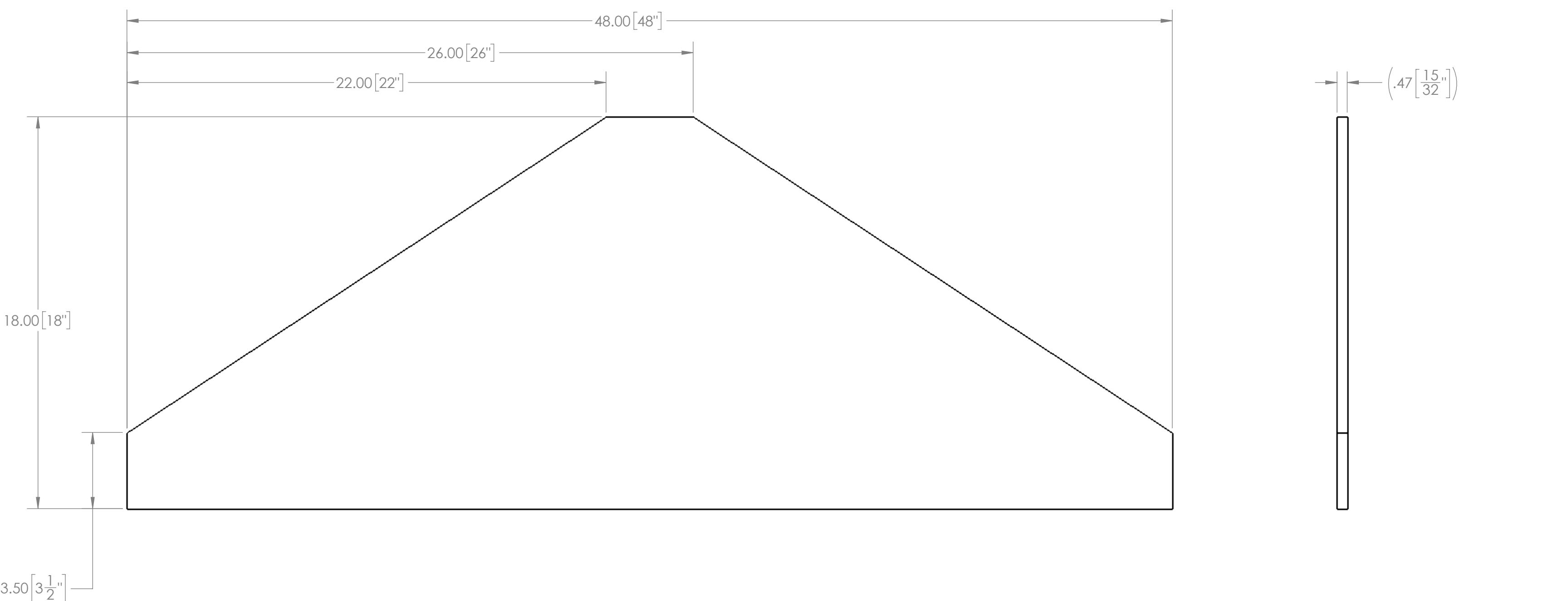
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UNLESS OTHERWISE SPECIFIED:

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:**

1/2" Plywood (15/32 actual)

DO NOT SCALE DRAWING

TEAM NAME DATE

DRAWN DF 12/15/2024



TITLE: Stabilizer Gusset

SIZE DWG. NO. REV

C TE-25205

SCALE: 1:4 SHEET 1 OF 1

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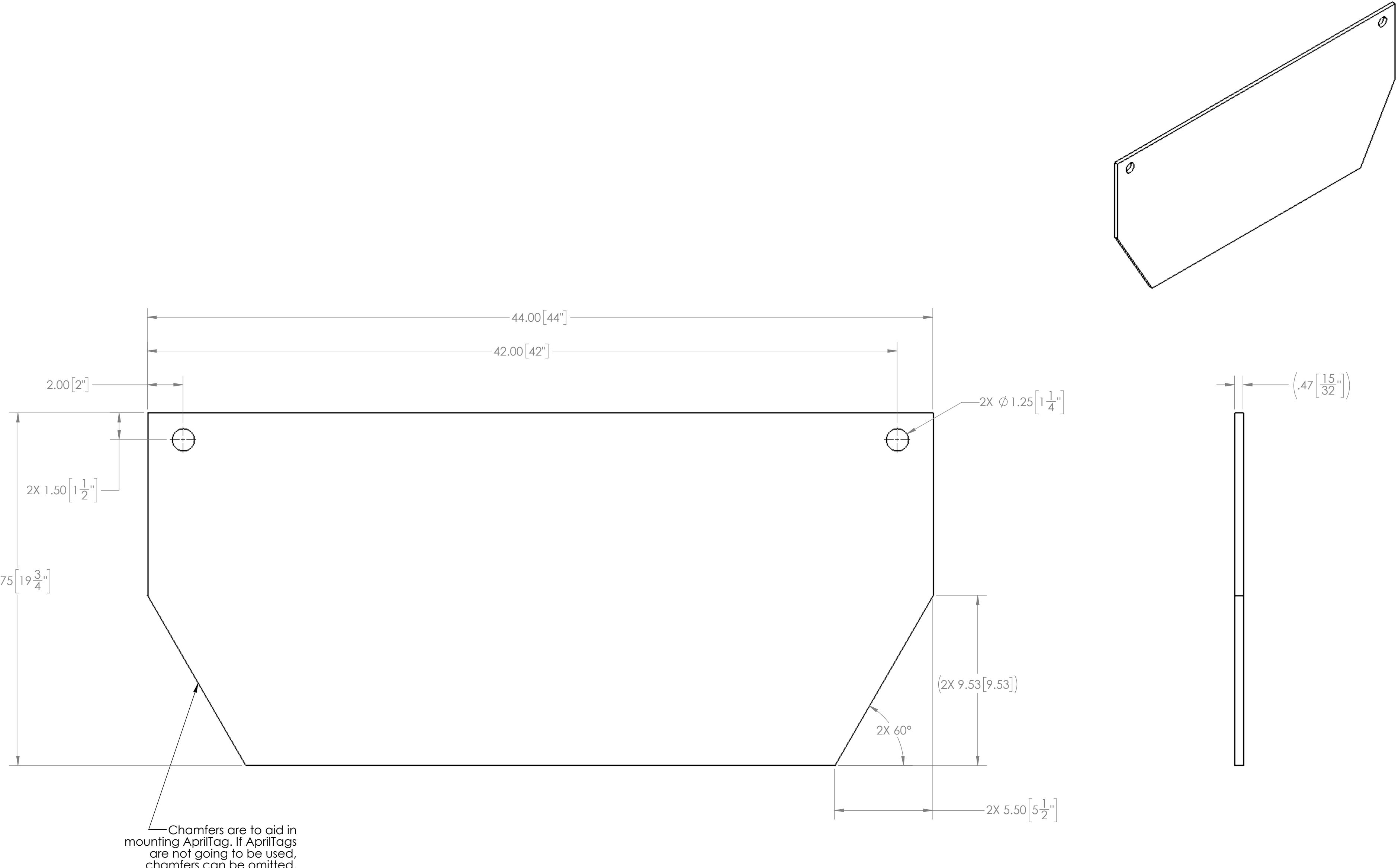
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| UNLESS OTHERWISE SPECIFIED:   | TEAM  | NAME                              | DATE         |
| DIMENSIONS ARE IN INCHES<br>TOLERANCES:<br>FRACTIONAL $\pm 1/16$<br>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$<br>TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$ | DRAWN | DF                                | 12/15/2024   |
| <b>PROPRIETARY AND CONFIDENTIAL</b>   |       |                                   |              |
| 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:  | SIZE  | DWG. NO.                          | REV          |
| 1/2 Plywood (15/32 actual)  | C     | TE-25206                          |              |
| COMMENTS:   |       | REMOVE ALL BURRS AND SHARP EDGES. |              |
| DO NOT SCALE DRAWING  |       | SCALE: 1:4                        | SHEET 1 OF 1 |

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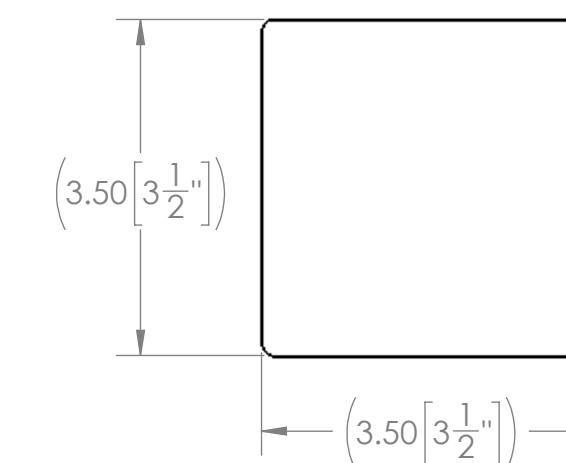
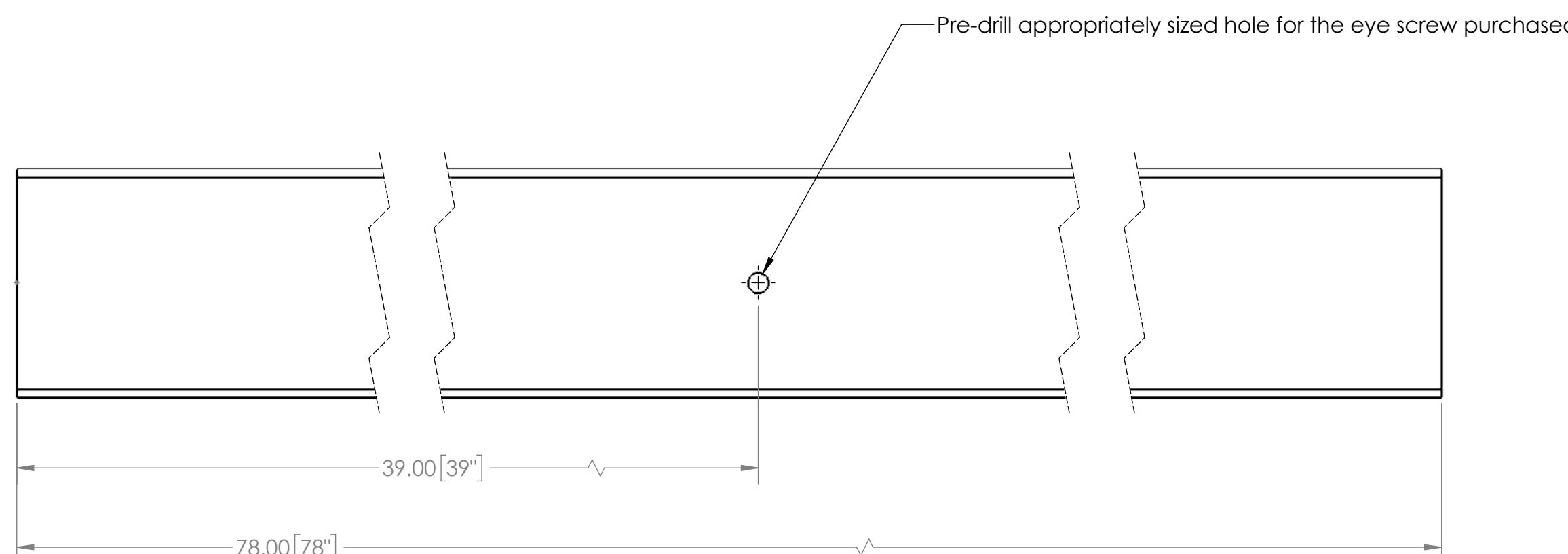
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| UNLESS OTHERWISE SPECIFIED:  | TEAM   | NAME         | DATE       |
| DIMENSIONS ARE IN INCHES   | DRAWN  | DF           | 12/15/2024 |
| TOLERANCES:<br>FRACTIONAL $\pm 1/16$<br>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ | <b>PROPRIETARY AND CONFIDENTIAL</b>  |              |            |
| TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$                          | 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:<br>4" x 4" Lumber   | SIZE   | DWG. NO.     | REV        |
| COMMENTS:<br>REMOVE ALL BURRS AND SHARP EDGES.   | C  | TE-25207     |            |
| DO NOT SCALE DRAWING   | SCALE: 1:2   | SHEET 1 OF 1 |            |

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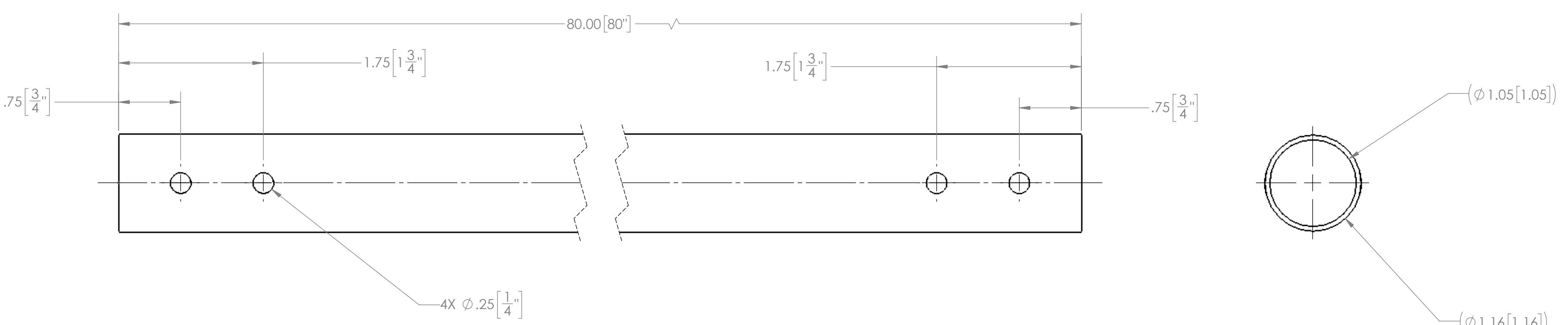
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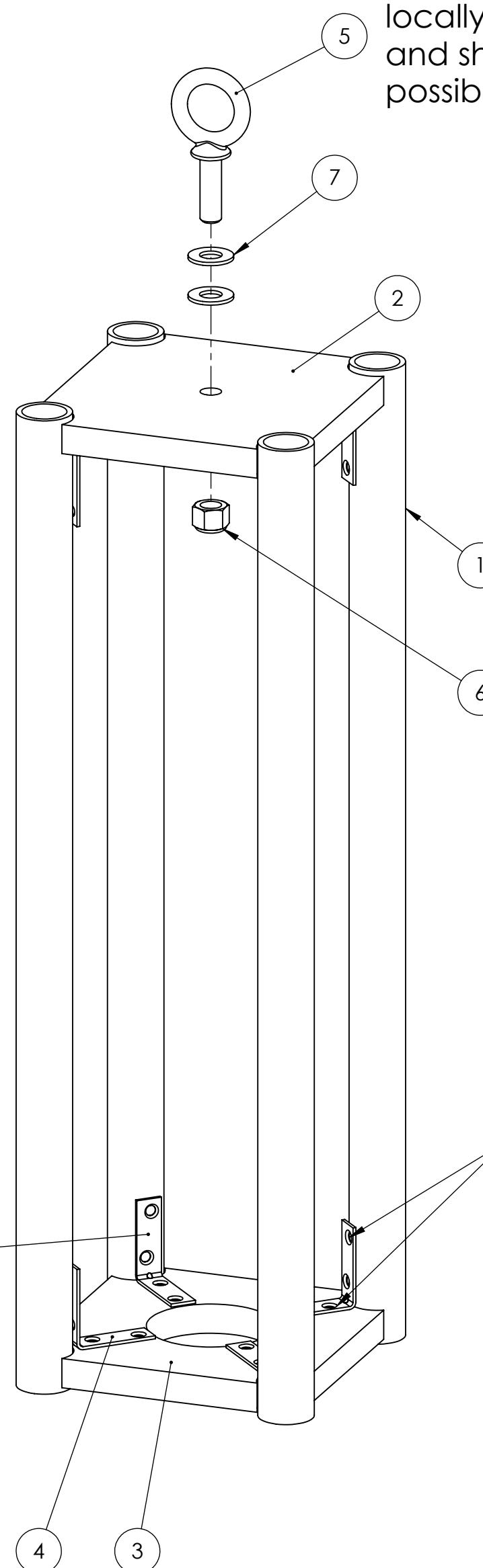
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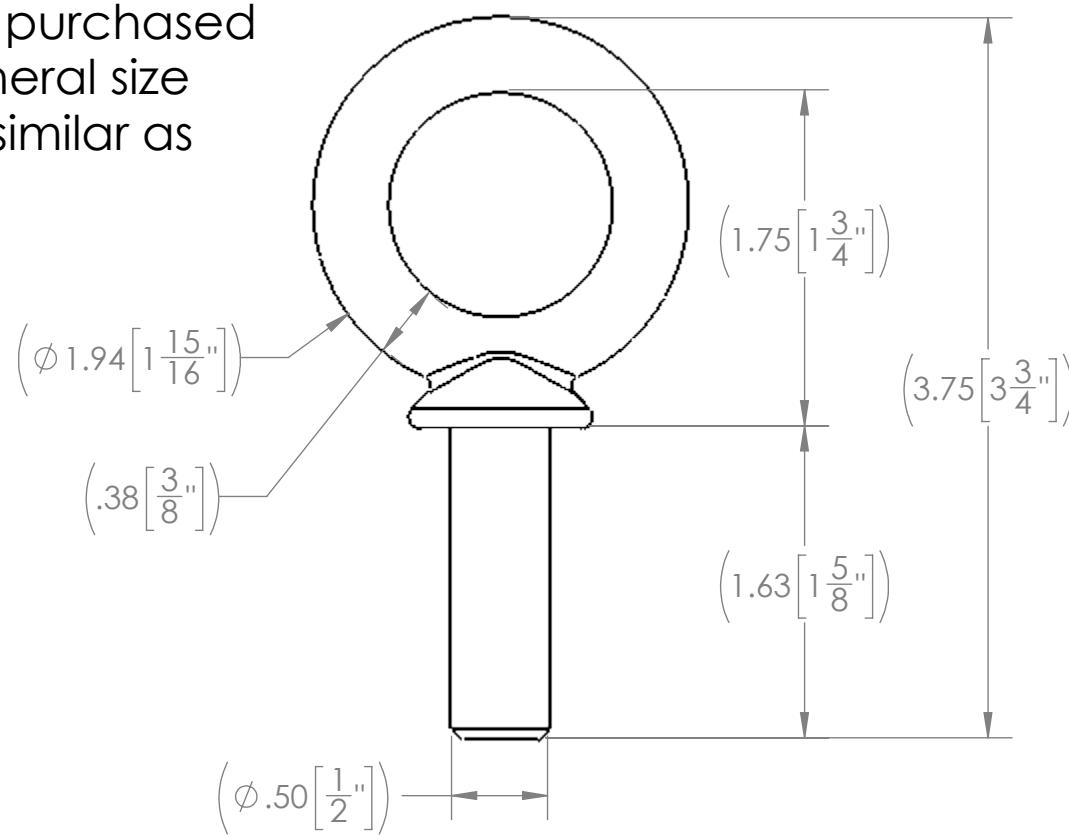


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| UNLESS OTHERWISE SPECIFIED:  | TEAM       | NAME         | DATE   |
| DRAWN  | DF         | 12/15/2024   |  FIRST<br>ROBOTICS<br>COMPETITION |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |            |              |  |
| THE INFORMATION CONTAINED IN 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:   | SIZE       | DWG. NO.     | REV  |
| 1" EMT Conduit,<br>Galvanized Steel  | C          | TE-25208     |  |
| <b>COMMENTS:</b><br>REMOVE ALL BURRS AND SHARP EDGES.  |            |              |  |
| DO NOT SCALE DRAWING   | SCALE: 1:1 | SHEET 1 OF 1 |  |

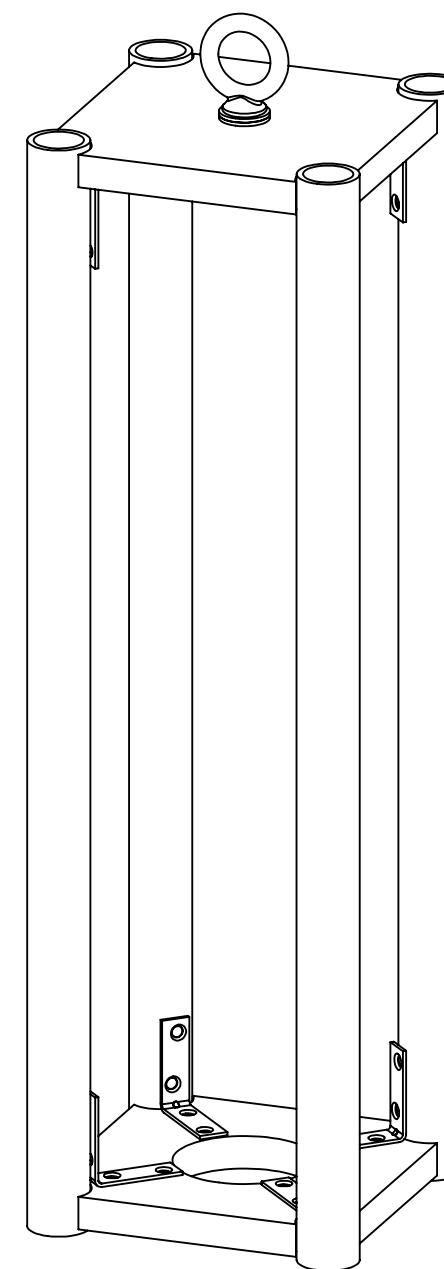
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Eyebolt shown is part#:50CBMSI from KLJack.com. Other eyebolts purchased locally can be used, but general size and shape should be as similar as possible.



Eyebolt Detail A



Angle brackets are 2" Steel, .07" thick. Home Depot items 202034088 and 300985586 are adequate, but any similarly sized brackets will work

In addition to the BOM items, appropriate bolts (hex or pan head) will be needed to attach the brackets. Bolt diameter will vary by bracket purchased. Lengths and quantities needed:

- 8 - 1.75" long bolts
- 8 - 1.25" long bolts
- 16 - nylock nuts
- 8 - flat washers

Note: Official field cages will be available for purchase at AndyMark.com

| ITEM NO. | PART NUMBER           | DESCRIPTION  | QTY. |
|----------|-----------------------|--|------|
| 1        | TE-25211              | Pipe, Team Cage  | 4    |
| 2        | TE-25212              | Cage Top, Team   | 1    |
| 3        | TE-25213              | Cage Bottom, Team  | 1    |
| 4        | Angle_Bracket_2in     | Angle Bracket, 2", Steel   | 8    |
| 5        | eyebolt_shoulder_.5_1 | Steel Eyebolt with Shoulder, 1/2"-13 x 1.5" long, fully threaded | 1    |
| 6        | nylock_.5_13          | steel nylon-insert locknut, 1/2" - 13                            | 1    |
| 7        | washer_flat_.5        | Flat Washer for 1/2" Screw                                       | 2    |

|  |      |            |
|--|------|------------|
| UNLESS OTHERWISE SPECIFIED:  |      |            |
| TEAM   | NAME | DATE       |
| DRAWN  | DF   | 12/18/2024 |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |      |            |
| 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. |      |            |
| <b>COMMENTS:</b>   |      |            |
| REMOVE ALL BURRS AND SHARP EDGES.  |      |            |
| DO NOT SCALE DRAWING   |      |            |

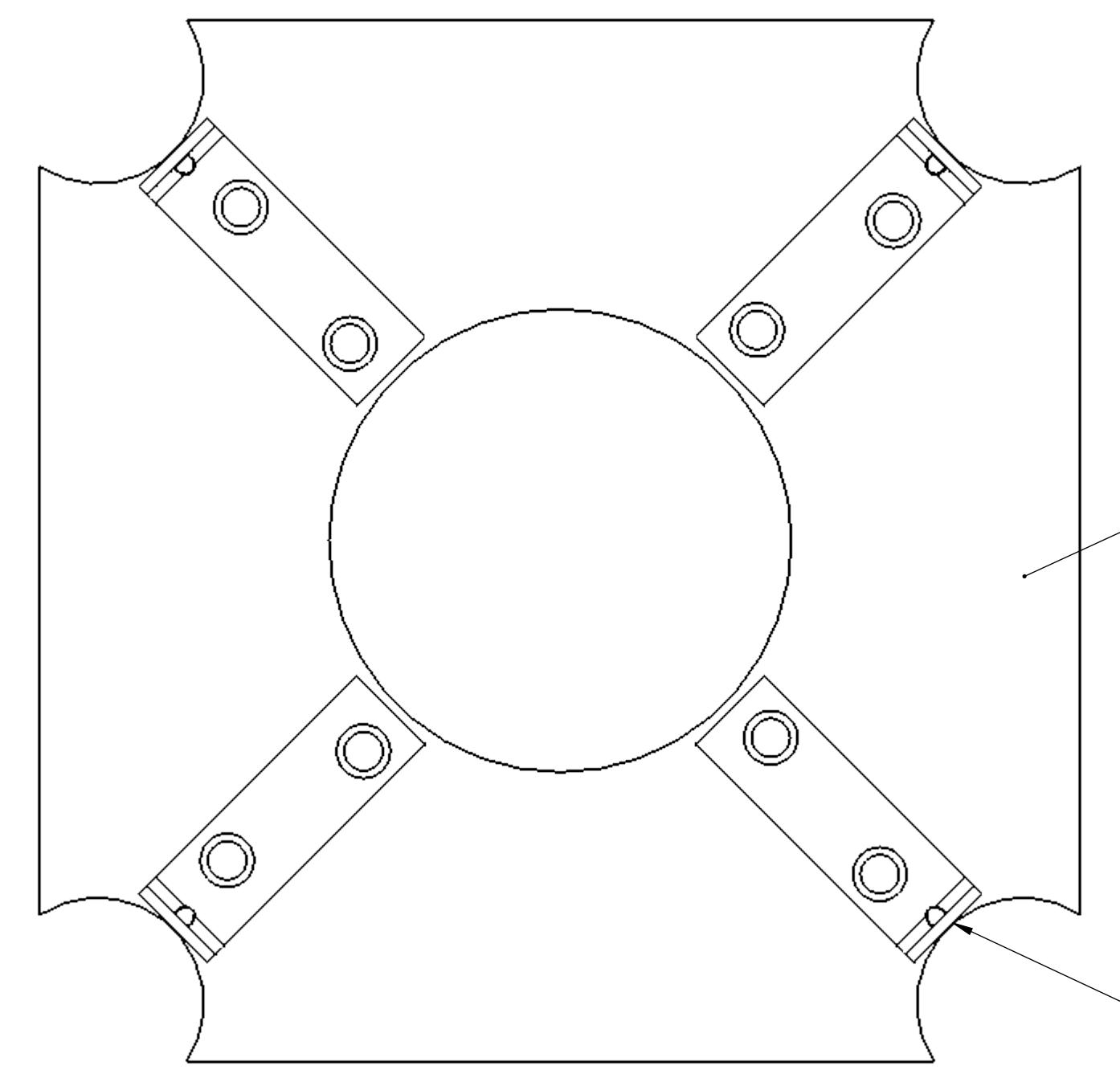
**FIRST ROBOTICS COMPETITION** **SOLIDWORKS**  
Modeling Solutions Partner

**TITLE:** Cage Assembly, Team

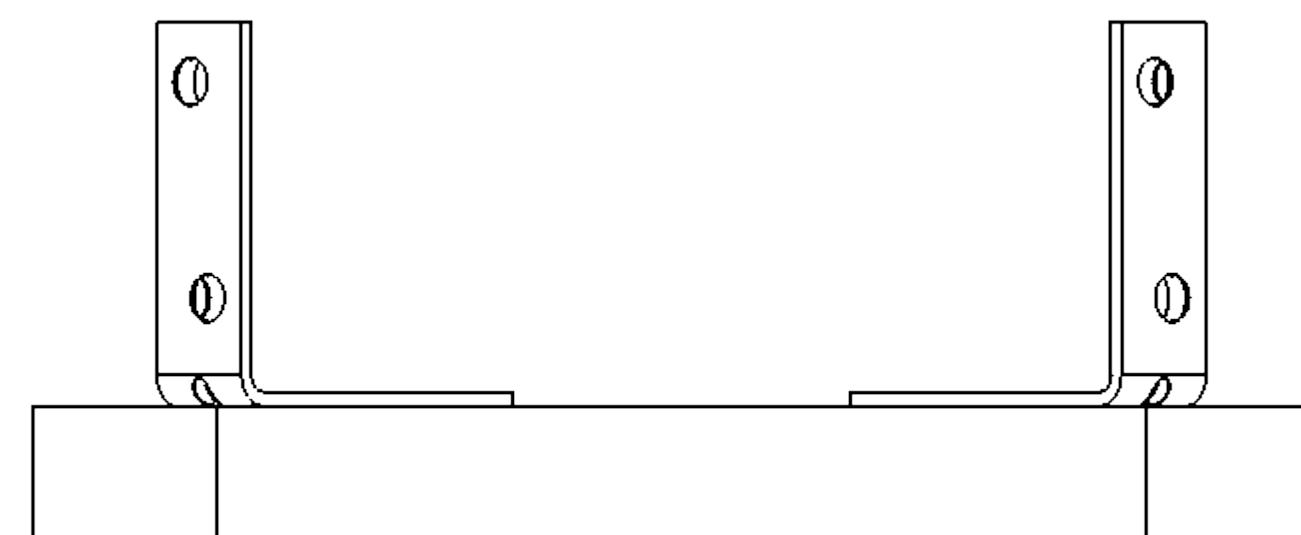
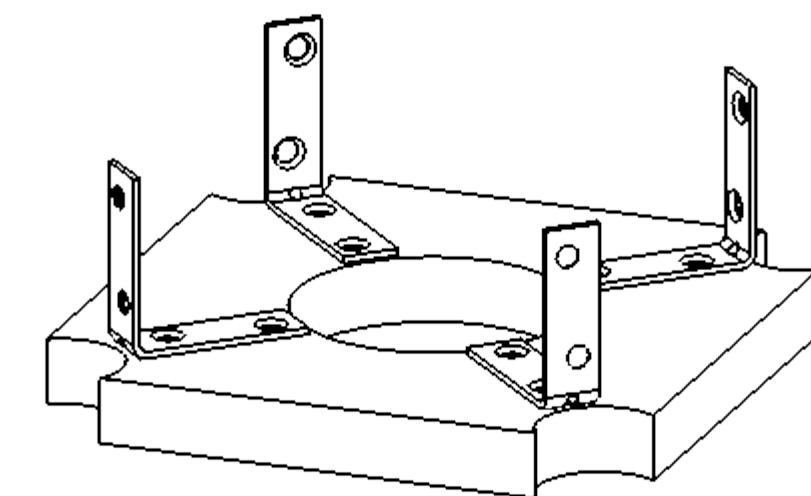
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| SIZE     | DWG. NO. | REV |
| <b>C</b> | TE-25210 |     |

**SCALE:** 1:3 **SHEET** 1 OF 3

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Cage Bottom



1. Position brackets so that they are tangent to the drilled holes.
2. Mark the holes in the brackets on to the plywood.
3. Drill out holes with appropriately sized drill.
4. Mount the brackets with 1.25" long bolts. A flat washer should be used on the wood side.
5. Repeat for cage top.

UNLESS OTHERWISE SPECIFIED:

TEAM \_\_\_\_\_ NAME \_\_\_\_\_ DATE \_\_\_\_\_

DRAWN DF 12/18/2024

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

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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:

# Cage Assembly, Team

SIZE DWG. NO. REV

**C** TE-25210

SCALE: 1:1 SHEET 2 OF 3

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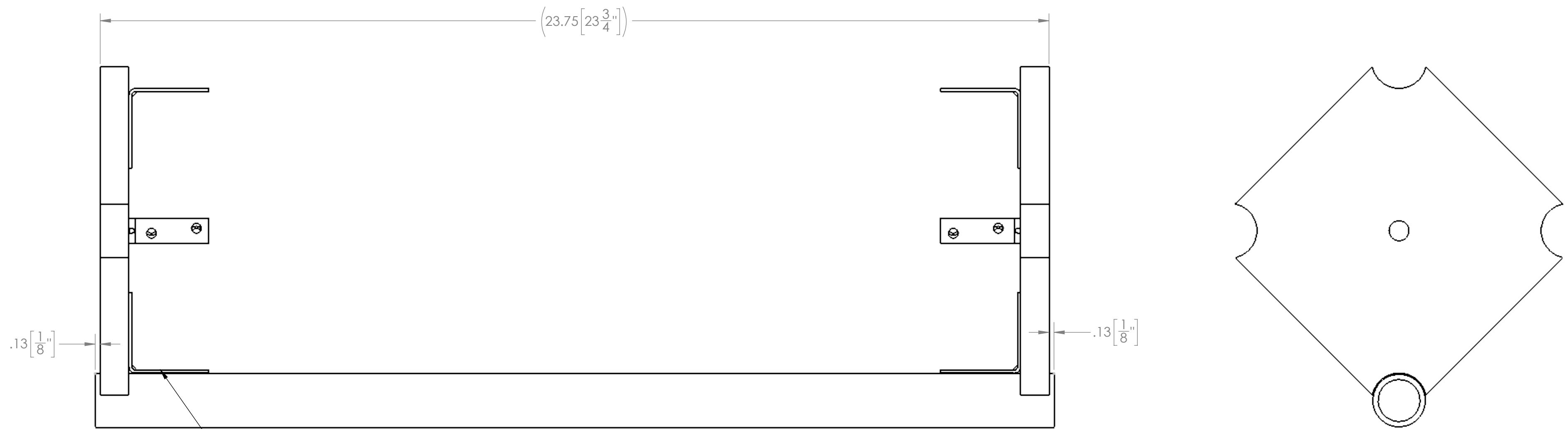
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1. Position pipes so they extend 1/8" from the plywood.
2. Mark the holes in the brackets on to the pipes for both Cage Bottom and Cage Top.
3. Drill out holes with appropriately sized drill.
4. Mount the pipes with 1.75" long bolts.
5. Repeat for all pipes.

|  |                                   |  |            |
|--|-----------------------------------|--|------------|
| UNLESS OTHERWISE SPECIFIED:  | TEAM                              | NAME   | DATE       |
| DIMENSIONS ARE IN INCHES   | DRAWN                             | DF   | 12/18/2024 |
| TOLERANCES:<br>FRACTIONAL $\pm 1/16$<br>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$ |                                   |  |            |
| TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$                          |                                   |  |            |
| 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 PERMISSION OF FIRST® IS PROHIBITED. |            |
| COMMENTS:  | REMOVE ALL BURRS AND SHARP EDGES. |  |            |
| DO NOT SCALE DRAWING   | SIZE                              | DWG. NO.   | REV        |
|  | C                                 | TE-25210   |            |
|  | SCALE: 1:2                        | SHEET 3 OF 3   |            |

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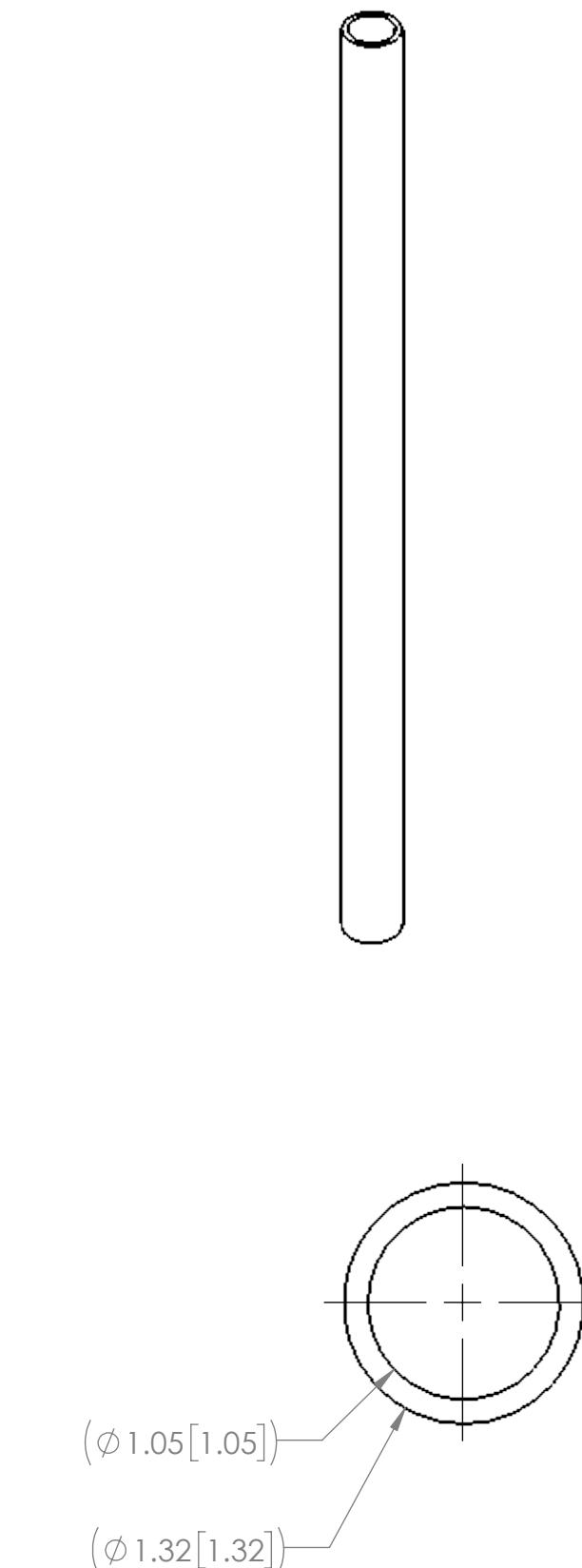
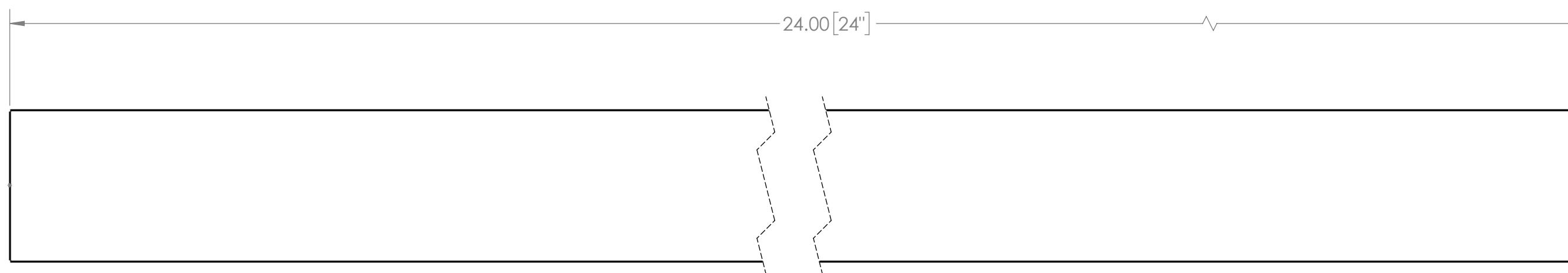
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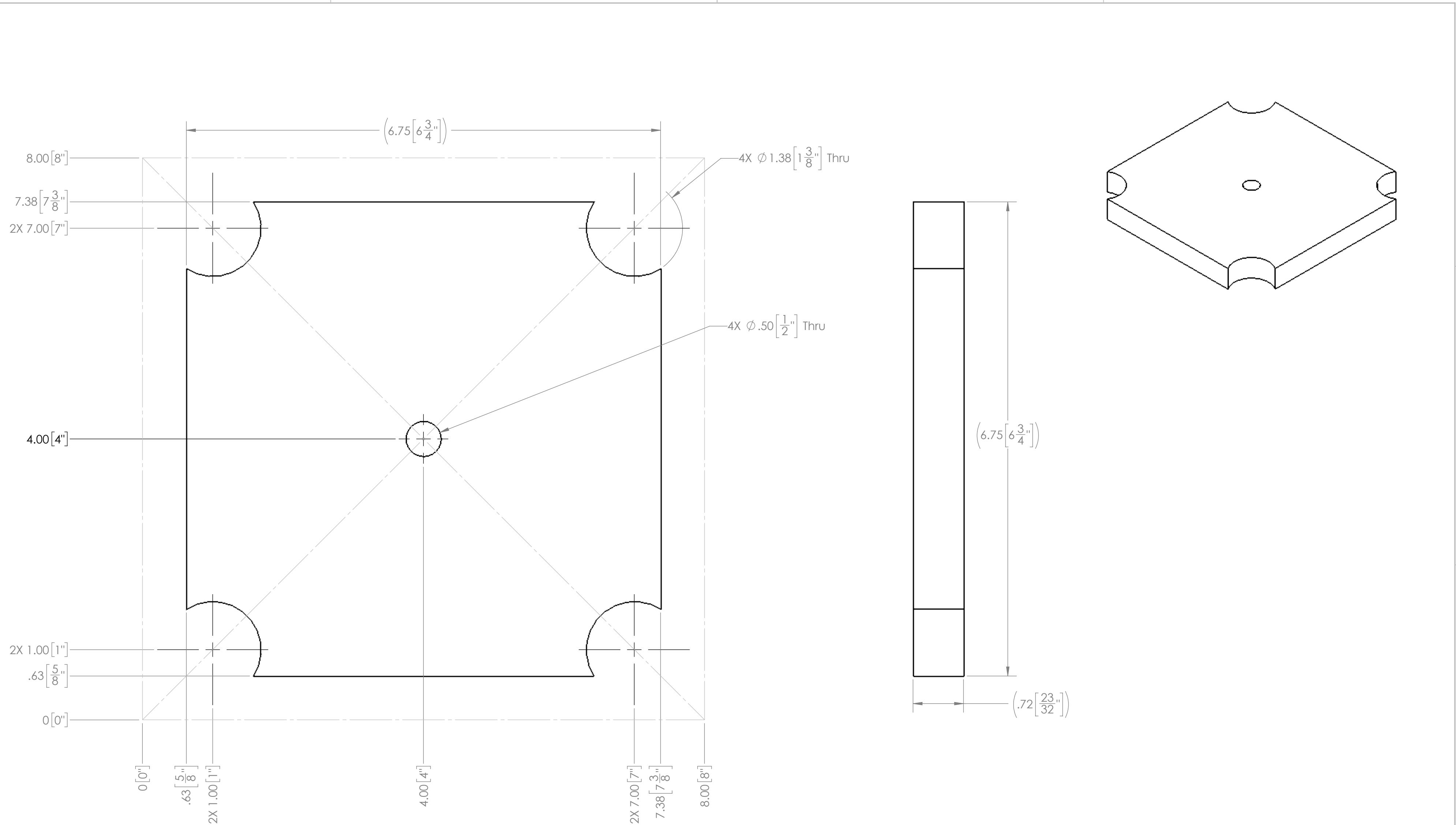
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| UNLESS OTHERWISE SPECIFIED:   | TEAM       | NAME         | DATE       |
| DIMENSIONS ARE IN INCHES<br>TOLERANCES:<br>FRACTIONAL $\pm 1/16$<br>ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$<br>TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$ | DRAWN      | DF           | 12/17/2024 |
| <b>PROPRIETARY AND CONFIDENTIAL</b>   |            |              |            |
| 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:  | SIZE       | DWG. NO.     | REV        |
| 1" Schedule 40, iron pipe   | C          | TE-25211     |            |
| <b>COMMENTS:</b><br>REMOVE ALL BURRS AND SHARP EDGES.   |            |              |            |
| DO NOT SCALE DRAWING  | SCALE: 1:1 | SHEET 1 OF 1 |            |

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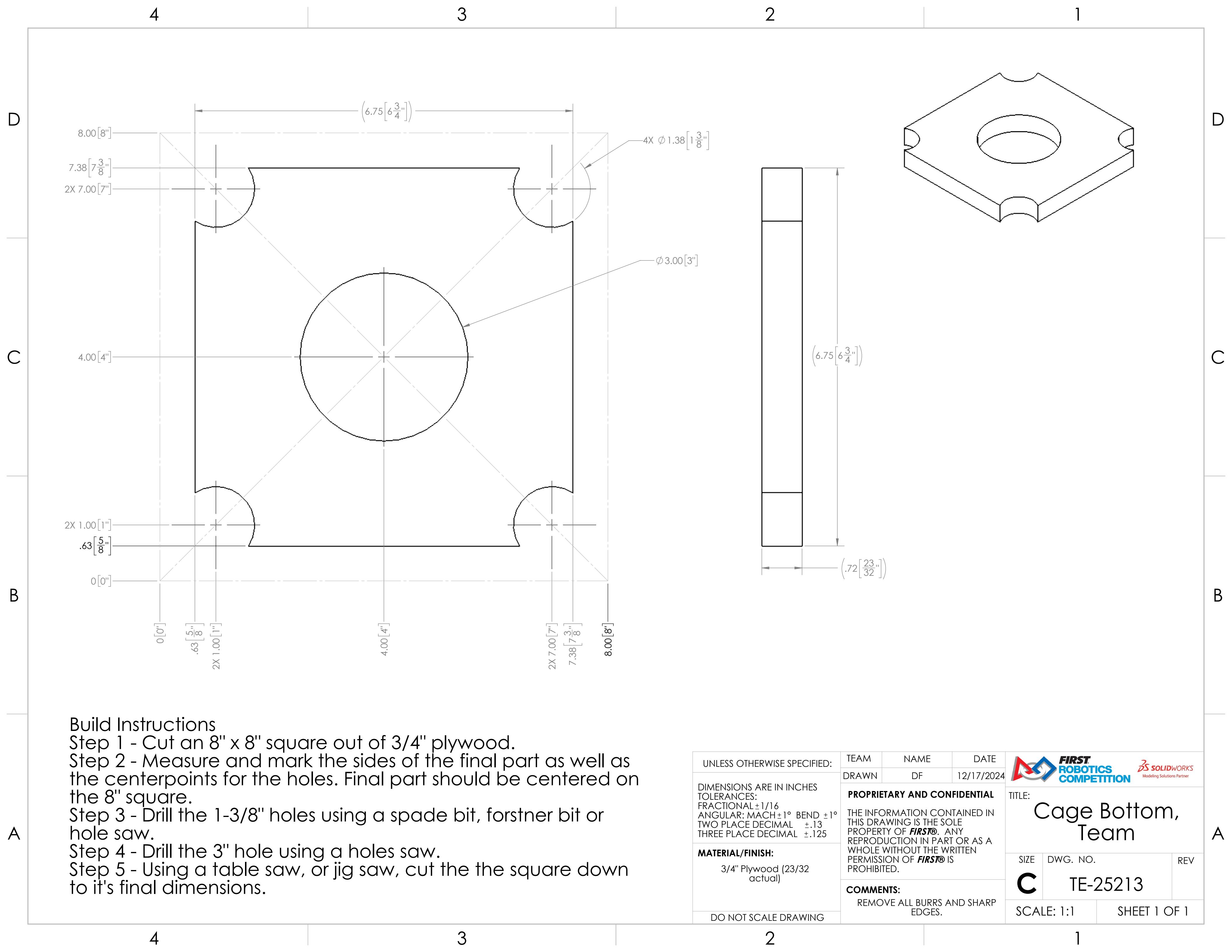
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### Build Instructions

- Step 1 - Cut an 8" x 8" square out of 3/4" plywood.
- Step 2 - Measure and mark the sides of the final part as well as the centerpoints for the holes. Final part should be centered on the 8" square.
- Step 3 - Drill the 1-3/8" holes using a spade bit, forstner bit or hole saw.
- Step 4 - Drill the 1/2" hole.
- Step 5 - Using a table saw, or jig saw, cut the the square down to it's final dimensions.

|  |      |                                   |   |
|--|------|-----------------------------------|---|
| UNLESS OTHERWISE SPECIFIED:  | TEAM | NAME                              | DATE  |
| DRAWN  | DF   | 12/17/2024                        |   |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |      |                                   |   |
| 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:   | SIZE | DWG. NO.                          | REV   |
| 3/4" Plywood (23/32 actual)  | C    | TE-25212                          |   |
| COMMENTS:  |      | REMOVE ALL BURRS AND SHARP EDGES. |   |
| DO NOT SCALE DRAWING   |      | SCALE: 1:1                        | SHEET 1 OF 1  |



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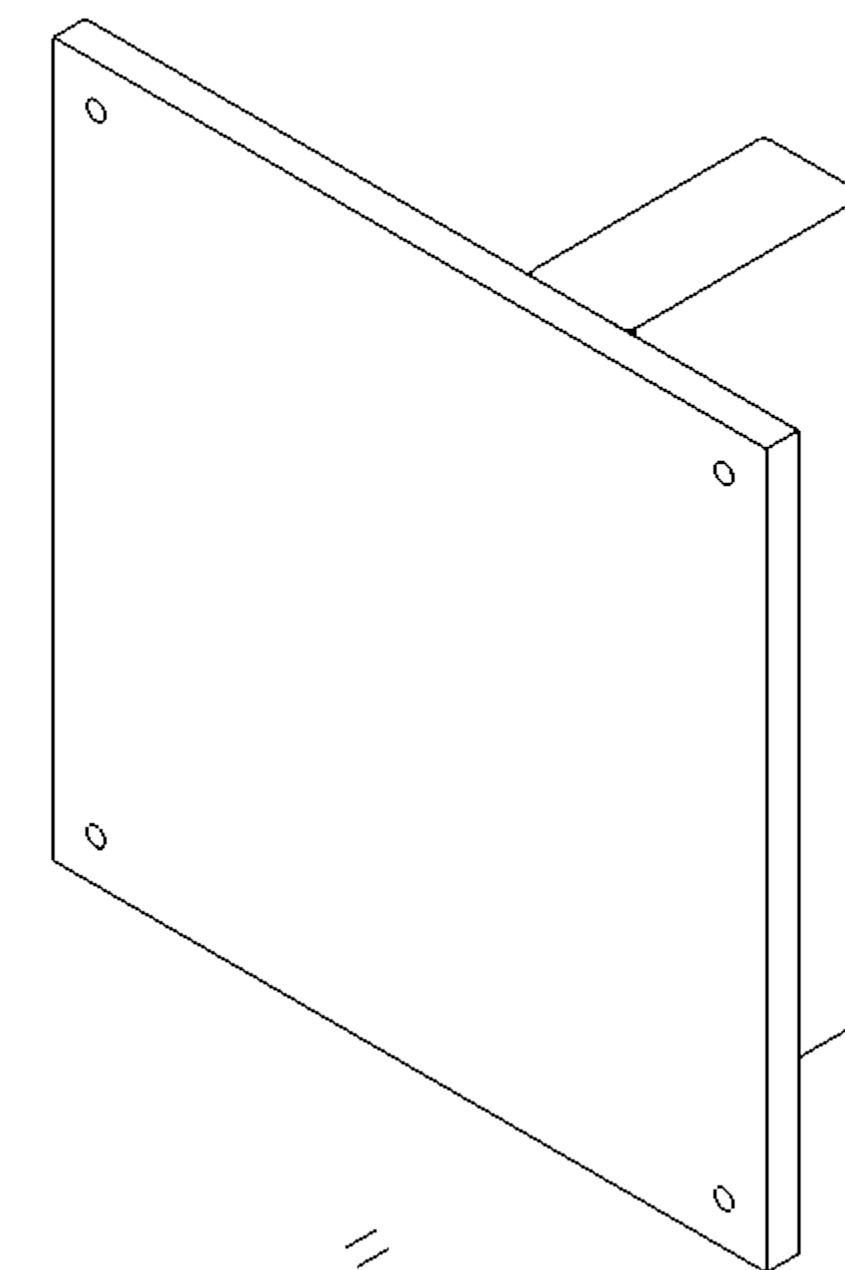
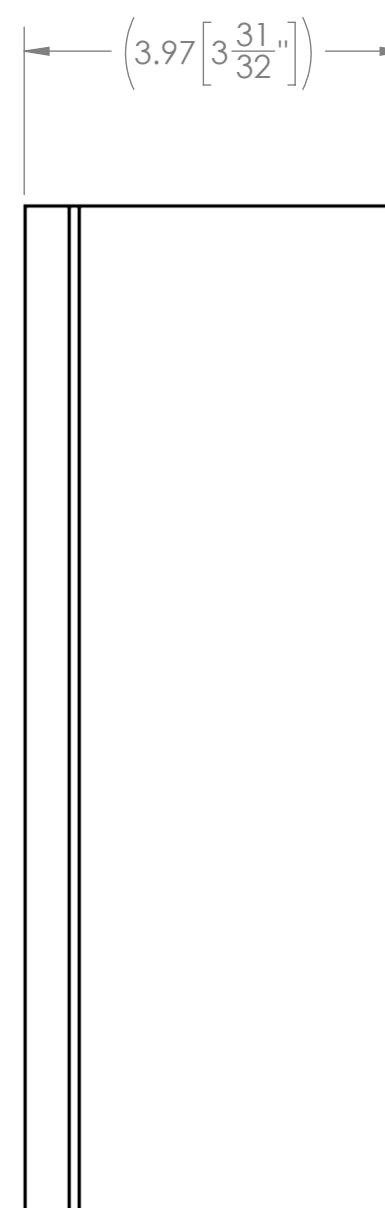
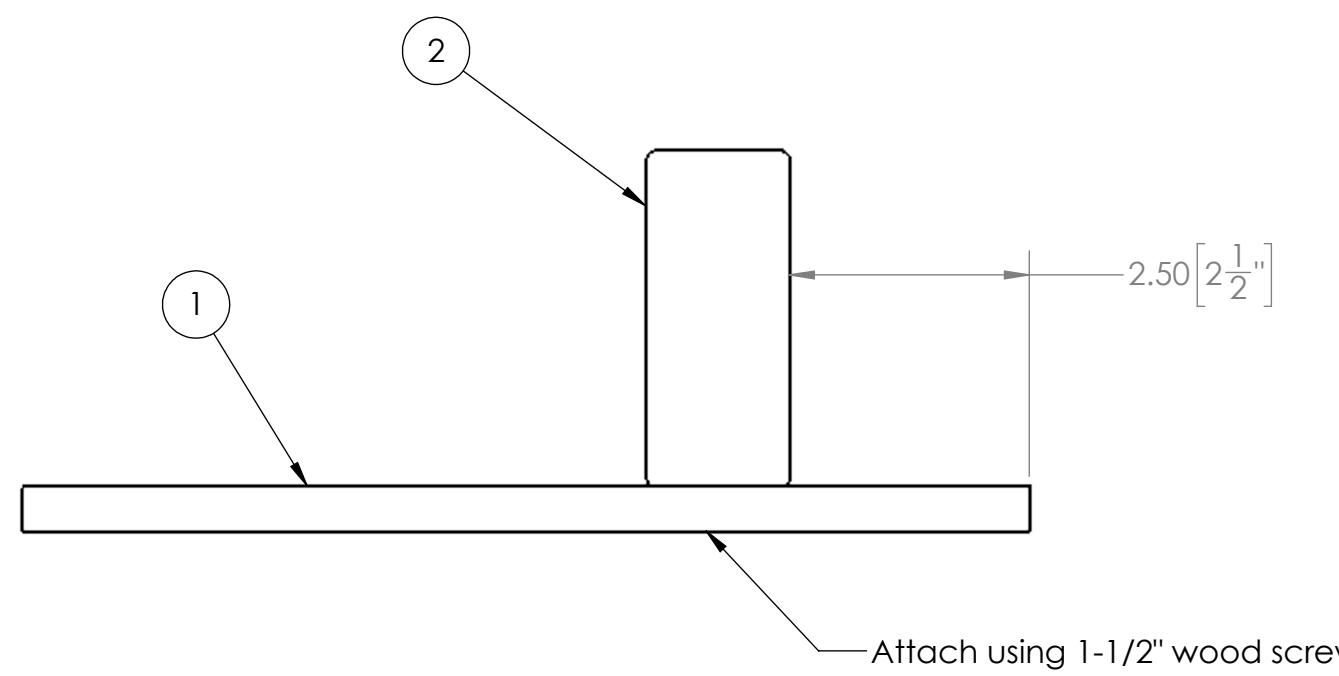
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| ITEM NO. | PART NUMBER | DESCRIPTION     | QTY. |
|----------|-------------|-----------------|------|
| 1        | TE-25215    | Plate, AprilTag | 1    |
| 2        | TE-25216    | Mount, AprilTag | 1    |

| UNLESS OTHERWISE SPECIFIED:  |                                   |          | TEAM       | NAME         | DATE       |
|--|-----------------------------------|----------|------------|--------------|------------|
| DIMENSIONS ARE IN INCHES   |                                   |          | DRAWN      | DF           | 12/17/2024 |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |                                   |          |            |              |            |
| 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:   | SIZE                              | DWG. NO. | REV        |              |            |
|  | C                                 | TE-25214 |            |              |            |
| COMMENTS:  | REMOVE ALL BURRS AND SHARP EDGES. |          |            |              |            |
| DO NOT SCALE DRAWING   |                                   |          | SCALE: 1:2 | SHEET 1 OF 1 |            |

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TITLE:  
AprilTag Holder

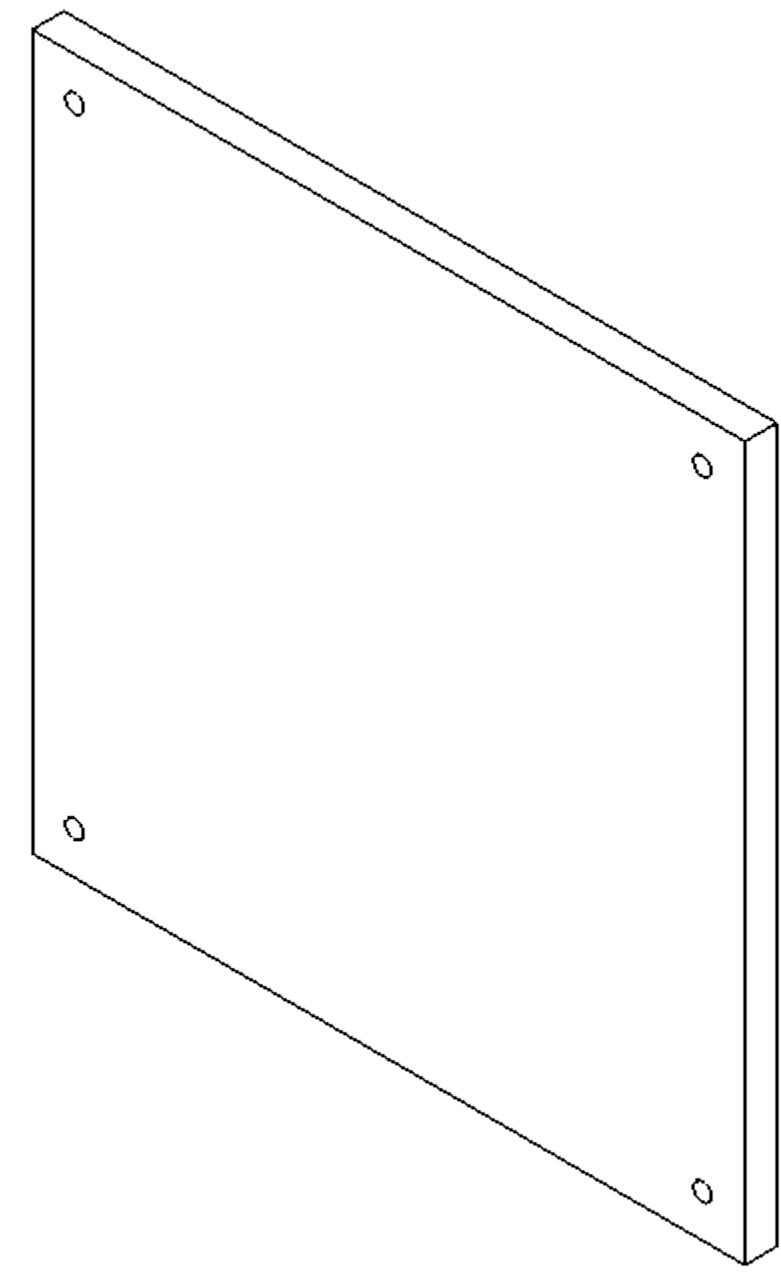
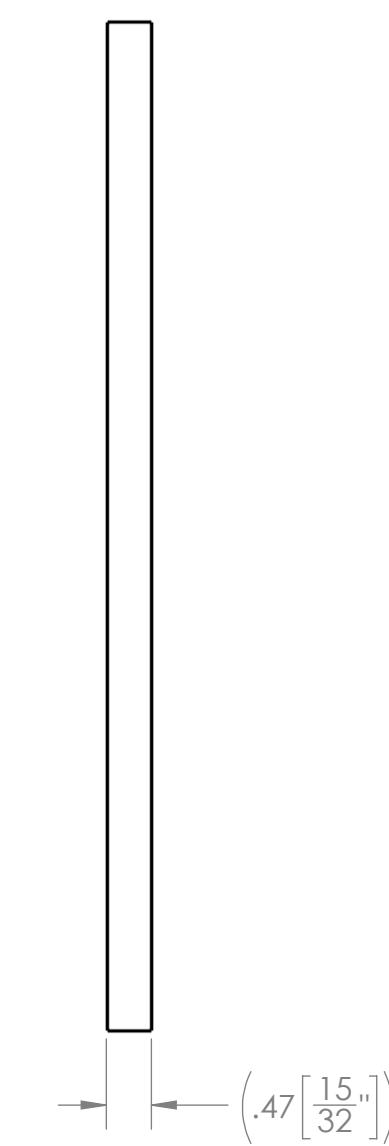
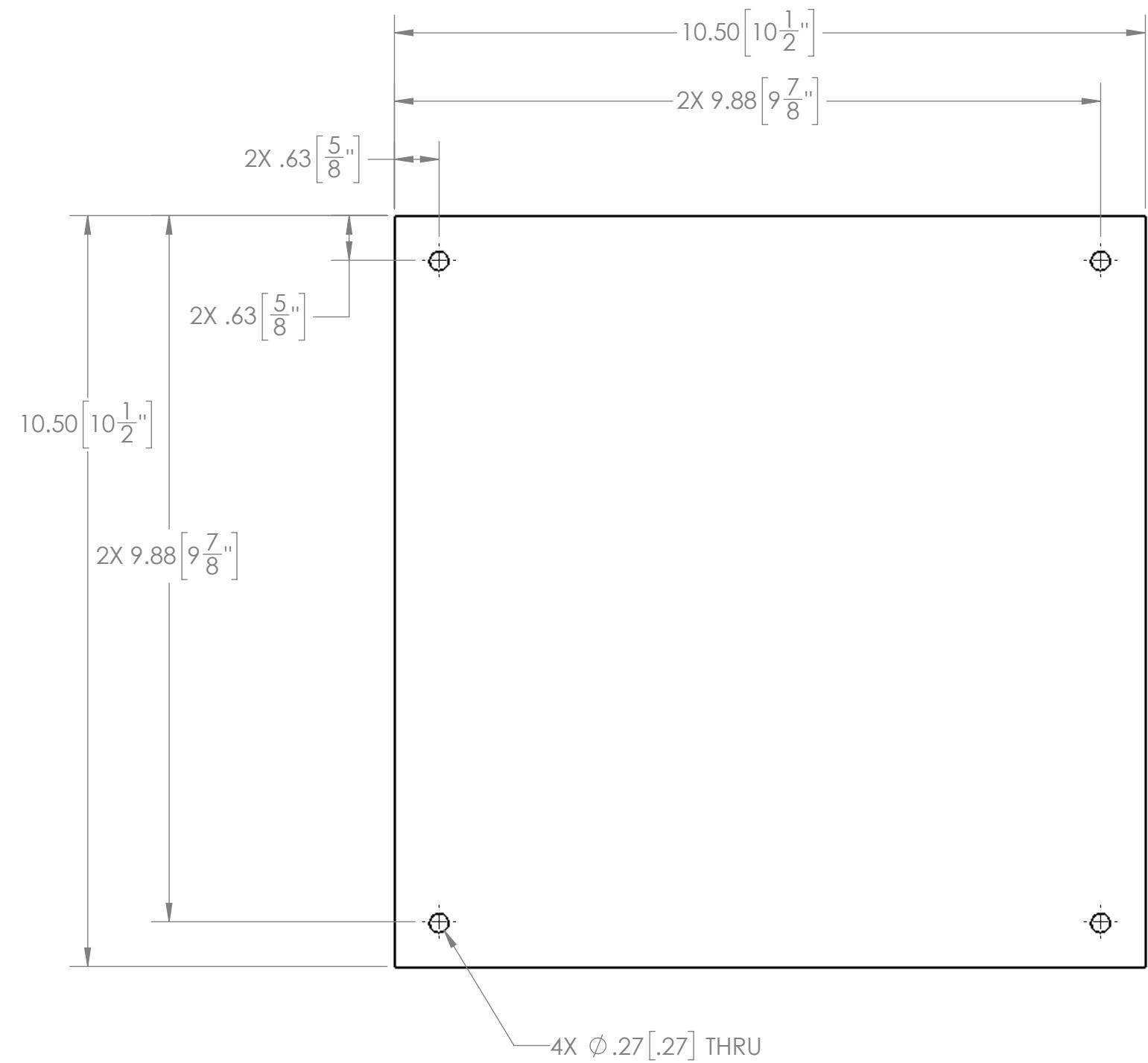
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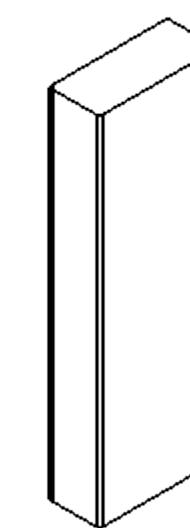
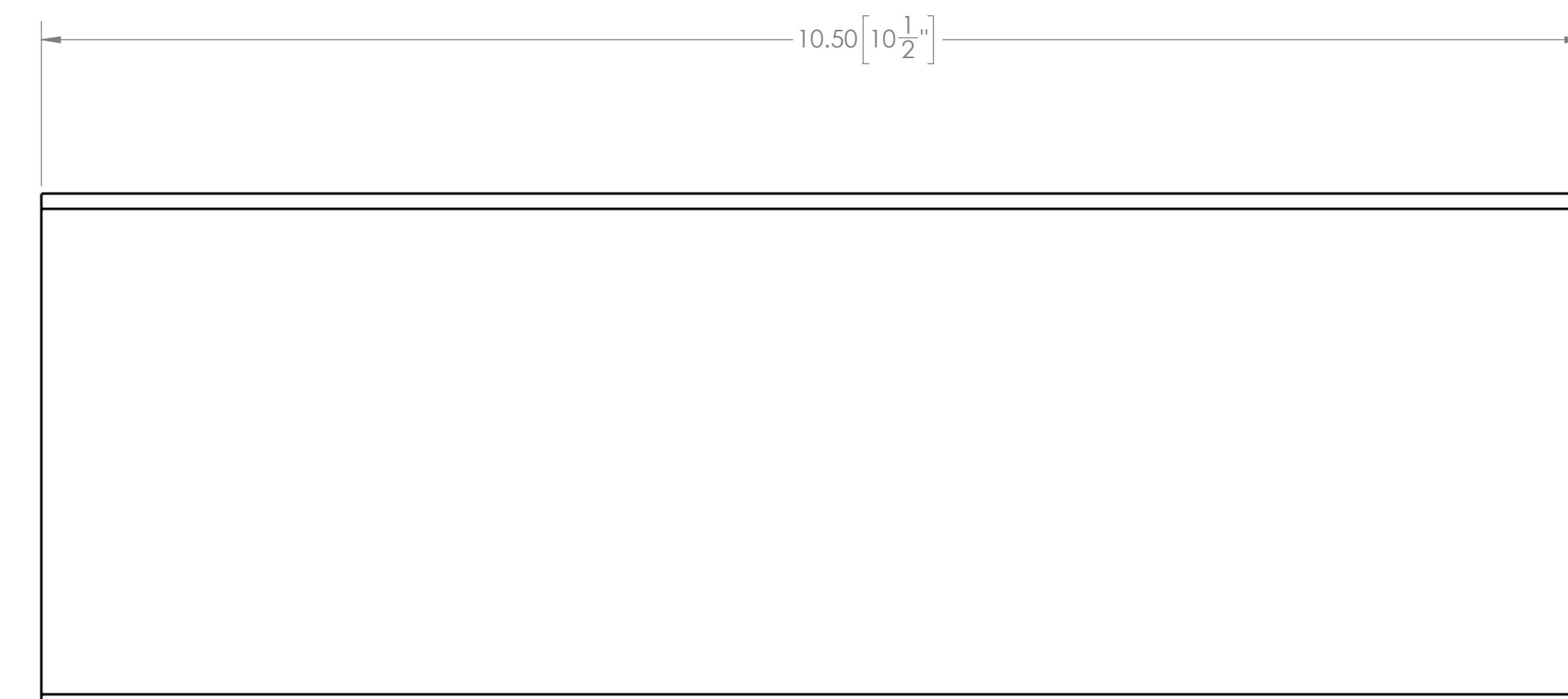
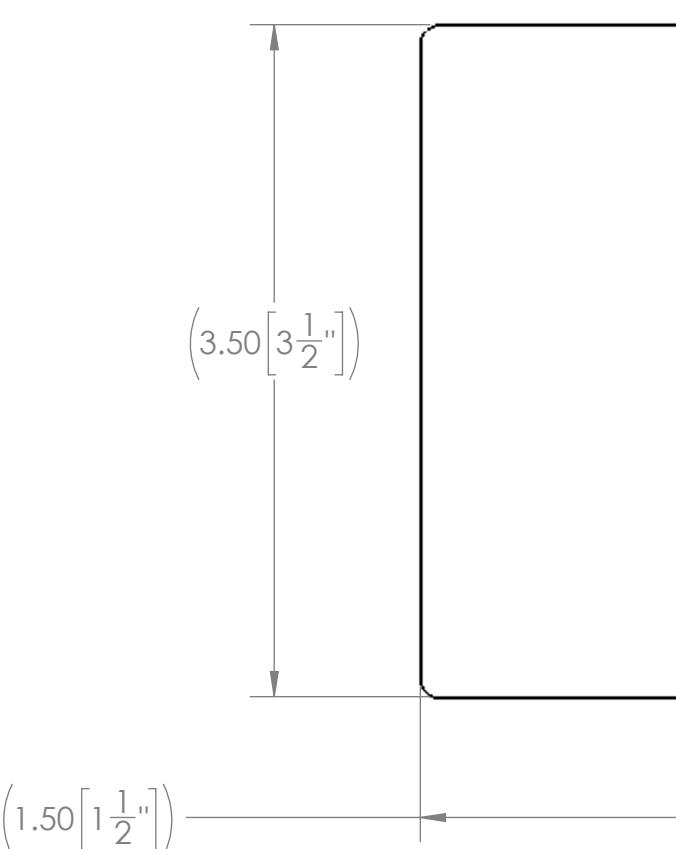
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|--|------------|--------------|------|
| UNLESS OTHERWISE SPECIFIED:  | TEAM       | NAME         | DATE |
| DRAWN  | DF         | 12/17/2024   |      |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |            |              |      |
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| MATERIAL/FINISH:   | SIZE       | DWG. NO.     | REV  |
| 1/2" Plywood (15/32 actual)  | C          | TE-25215     |      |
| <b>COMMENTS:</b><br>REMOVE ALL BURRS AND SHARP EDGES.  |            |              |      |
| DO NOT SCALE DRAWING   | SCALE: 1:2 | SHEET 1 OF 1 |      |

FIRST  
ROBOTICS  
COMPETITION

SOLIDWORKS  
Modeling Solutions Partner

TITLE:  
Plate, AprilTag

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|--|------------|--------------|------|
| UNLESS OTHERWISE SPECIFIED:  | TEAM       | NAME         | DATE |
| DRAWN  | DF         | 12/17/2024   |      |
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| MATERIAL/FINISH:   | SIZE       | DWG. NO.     | REV  |
| 2x4 Lumber   | C          | TE-25216     |      |
| <b>COMMENTS:</b><br>REMOVE ALL BURRS AND SHARP EDGES.  |            |              |      |
| DO NOT SCALE DRAWING   | SCALE: 1:1 | SHEET 1 OF 1 |      |

 **FIRST  
ROBOTICS  
COMPETITION**   
Modeling Solutions Partner

TITLE:  
**Mount, AprilTag**

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### Netting Information

Size needed: 48" x 77"

Material Options:

1. All Sport Netting (official netting manufacturer)

website: [www.allsportnetting.com](http://www.allsportnetting.com)

Material: knit polyester, 1/4" mesh

Border: 3/8" sewn cord

2. AndyMark (official netting reseller)

Website: [www.AndyMark.com](http://www.AndyMark.com)

Material: same as above

All nets will be full length (12 feet)

3. Pet Resistant Fiberglass Screen

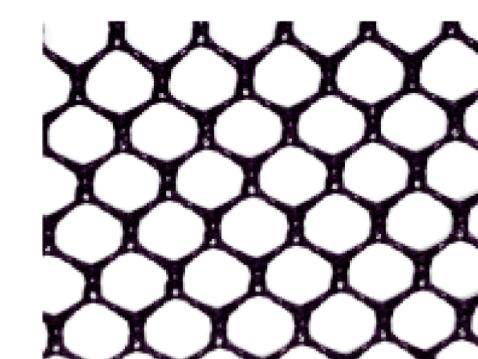
Website: [www.homedepot.com](http://www.homedepot.com)

Item#: 202091906

4. Plastic Barrier Fencing

Website: [www.homedepot.com](http://www.homedepot.com)

Item#: 316145906



Official Netting Pattern

|  |            |              |   |
|--|------------|--------------|---|
| UNLESS OTHERWISE SPECIFIED:  | TEAM       | NAME         | DATE  |
| DRAWN  | DF         | 12/19/2024   |   |
| <b>PROPRIETARY AND CONFIDENTIAL</b>  |            |              |   |
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| MATERIAL/FINISH:   | SIZE       | DWG. NO.     | REV   |
|  | C          | TE-25217     |   |
| DO NOT SCALE DRAWING   | SCALE: 1:8 | SHEET 1 OF 1 |   |