Major Assembly 1: Team Element Hub – Simple Build – Upper Hub TE-22002 & TE-22002-AM

This document includes an overview of the Simple version of the Team Element Hub, a shopping list for needed materials, and cut sheets referenced by FIRST in the creation of the shopping list.

- The Team Element Hubs create key geometries that are found on the 2022 Rapid React Field
- There are 2 categories of Team Element Hubs for teams to choose from Complex and Simple.
- AndyMark sells a few different field elements that can integrate into the Simple or Complex Hubs
 - AM-4671 Upper Hub -> Complex Build
 - o AM-4672 Upper Hub Vision Ring -> Simple Build
 - o AM-4673 Passive Agitator -> Complex Build
 - AM-4674 Active Agitator -> Complex Build

1 OVERVIEW OF TEAM ELEMENT HUB – SIMPLE

The Hub – Simple Build has 3 major assemblies, each with 2 configurations.

Simple Build – Full Hub: TE-22000 & TE-22000-AM

Simple Build – Lower Hub: TE-22001 Multiple & TE-22001-Single

Simple Build – Upper Hub: TE-22002 & TE-22002-AM

	Simple Build – Full Hub	
TE-22000 Hub - Simple Build - Full Hub Assembly		Represents all key features from the Field, including a full Upper Hub top ring, a full Upper Hub Vision Ring, four Upper Exits, a full Lower Hub top ring, four Fenders, and four Lower Exits.
TE-22000-AM Hub - Simple Build - Full Hub Assembly with AndyMark Ring AM-4672 Note: Team will need to purchase AM-4672 from AndyMark for this assembly.		Represents all key features from the Field, including AndyMark's AM-4672 Upper Hub top ring and Vision Ring Assembly, four Upper Exits, a full Lower Hub top ring, four Fenders, and four Lower Exits.
	Simple Build – Lower Hub	
TE-22001-Multiple Hub - Simple Build - Full Lower Hub + 1/4 Fender Assembly		Represents key features from the Lower Hub including a full Lower Hub top ring and one Fender assembly.

TE-22001-Single		
Hub - Simple Build - 1/4 Lower Hub + 1/4 Fender Assembly Team will need to purchase AM-4672 from AndyMark for this assembly.		Represents key features from the Lower Hub including one quarter of a Lower Hub top ring and one Fender assembly.
	Simple Build – Upper Hub	
TE-22002	Simple Balla Opper Hab	
Hub - Simple Build - Full Upper Hub + 1/4 Fender Assembly		Represents key features from the Upper Hub including a full Upper Hub top ring and one Fender assembly.
TE-22002-AM Hub - Simple Build - Full Upper Hub for AndyMark Ring AM- 4672 + 1/4 Fender Assembly Note: Team will need to purchase AM-4672 from AndyMark for this assembly.		Represents key features from the Upper Hub including a AndyMark's AM- 4672 Upper Hub top ring and Vision Ring Assembly and one Fender assembly.

1.1 TEAM ELEMENT HUB - SIMPLE BUILD - FULL HUB (TE-22000 & TE-22000-AM)

	Simple Build – Upper Hub	
TE-22002 Hub - Simple Build - Full Upper Hub + 1/4 Fender Assembly		Represents key features from the Upper Hub including a full Upper Hub top ring and one Fender assembly.
TE-22002-AM Hub - Simple Build - Full Upper Hub for AndyMark Ring AM- 4672 + 1/4 Fender Assembly Note: Team will need to purchase AM-4672 from AndyMark for this assembly.		Represents key features from the Upper Hub including a AndyMark's AM- 4672 Upper Hub top ring and Vision Ring Assembly and one Fender assembly.

1.1.1 FILES INCLUDED IN TEAM ELEMENT HUB – SIMPLE BUILD – UPPER HUB In this compressed folder, you will find all the PDF Drawings, SolidWorks CAD and Drawing Files, and STEP Files for these designs.

- PDF Drawings: For your convenience, all drawing files have been exported to PDF Format. There is one combined PDF File for TE-22002 and one combined PDF File for TE-22002-AM.
- SolidWorks CAD Files: All SolidWorks files required to build or modify the assembly.
- STEP Files: STEP files of the assembly are included for the convenience of non-SolidWorks users.

1.1.2 SHOPPING LIST FOR TE-22002 & TE-22002-AM

This is the shopping list for Team Element Hub – Simple – Upper Hub.



OR



1.1.2.1 Material Notes

- Plywood and Hardboard Sheets quality of plywood is up to the user. Plywood of lower qualities may contain voids and may warp more than high quality plywood. All dimensions listed are "nominal". For example ½" plywood is typically 15/32".
- Lumber quality of lumber is up to the user. Please keep in mind that lumber of lower qualities may warp more than high quality lumber. All dimensions below are the "mill cut" dimensions. For example, 2" x 4" lumber is really 1½" x 3½".
- Wood screw quantities are approximate and should account for having spares left over.

1.1.2.2 Materials Needed

General Material:

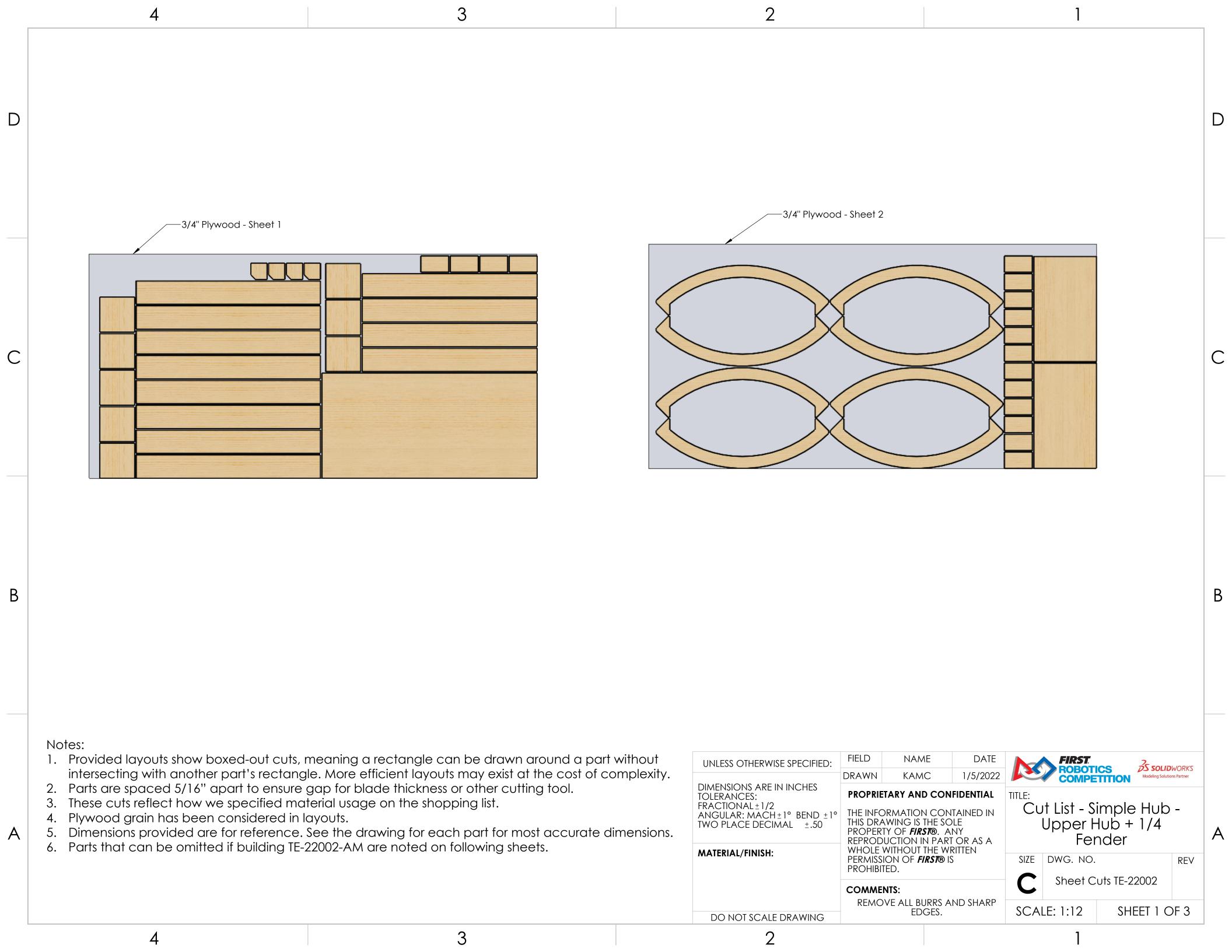
- 2" x 4" x 8' Long Lumber Qty 6
- 4" x 4" x 8' Long Lumber Qty 6
- 4' x 8' x ¾" Thick Plywood Qty 2
- Standard Size Poster Board (22" x 28" x 0.010" thick) Qty 1
 - Substitution of other flexible material acceptable
 - This can be omitted if building TE-22002-AM and using AndyMark's Upper Hub Top Ring & Vision Ring Assembly (AM-4672)

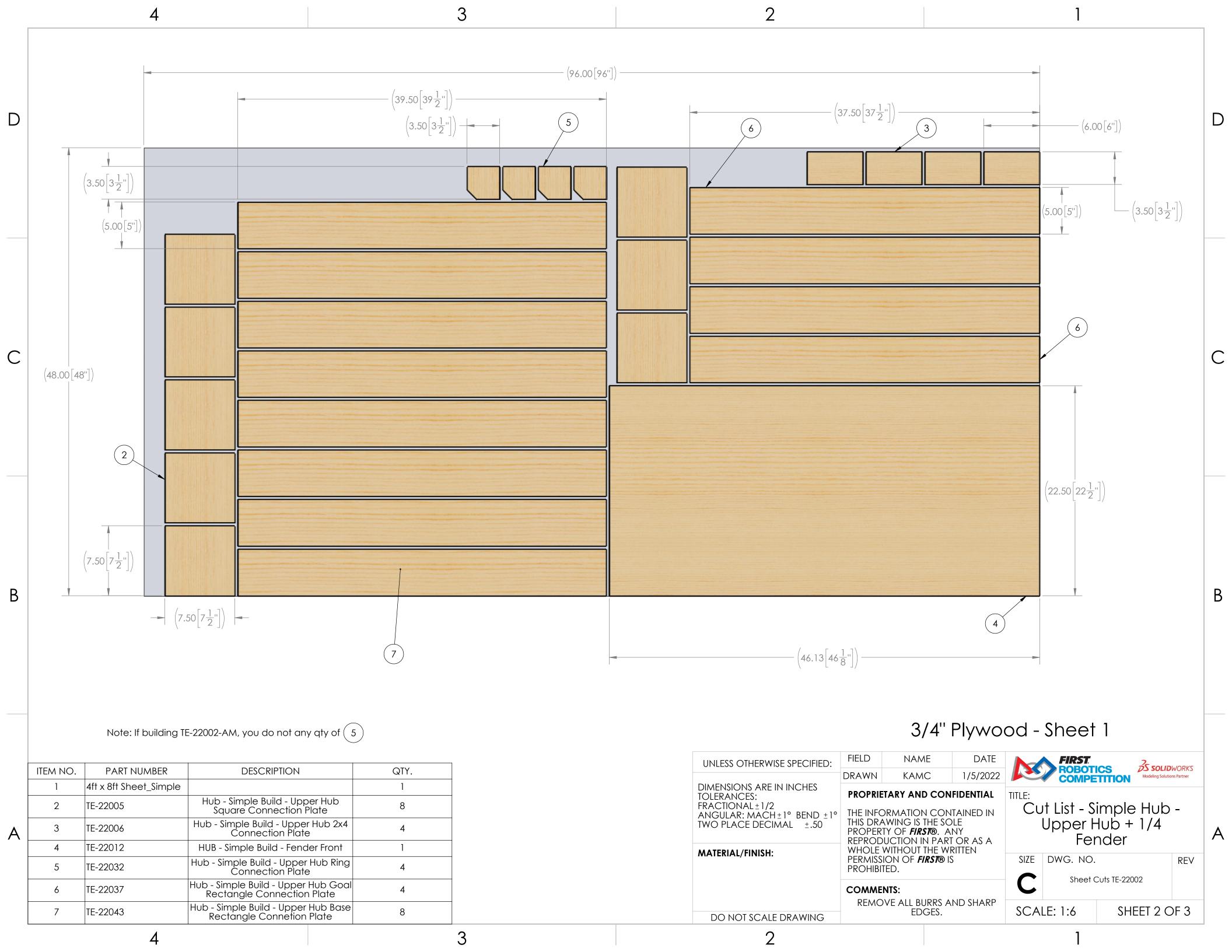
Hardware:

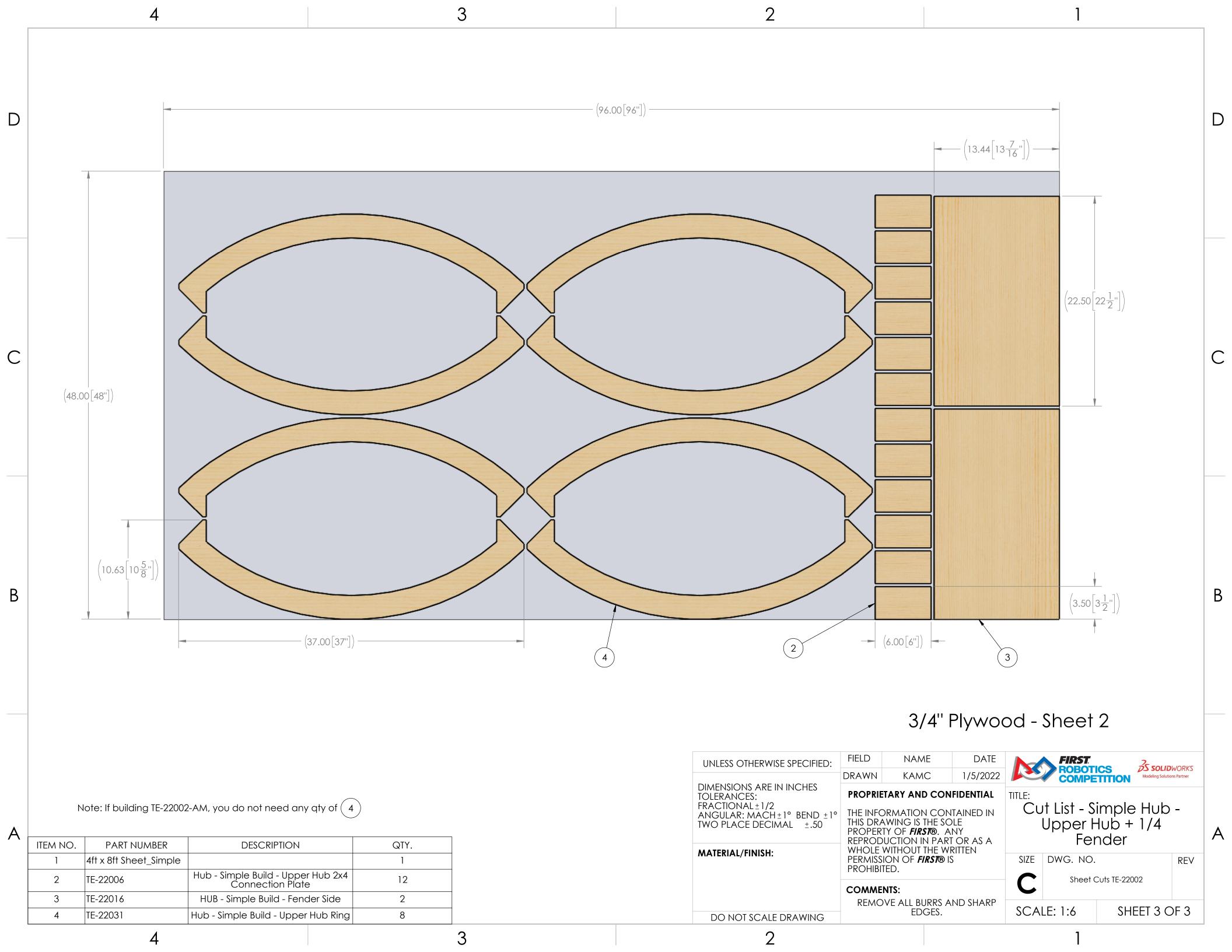
- #8 Wood Screw x 1.25" Long Approximately ½ lb.
- #8 Wood Screw x 2" Long Approximately 2 ½ lbs.
- #8 Wood Screw x 2.5" Long Approximately ½ lb.
- #8 Wood Screw x 3" Long Approximately ½ lb.
- #10 Wood Screw x 3.5" Long Approximately 1 ½ lbs.

Misc. Items:

- 2" wide 3M 8830 Scotchlite Reflective Material 80"
- Wood staples, thumb tacks, tape, etc. to attach TE-22070 (Vision Ring) to Upper Hub
 - This can be omitted if building TE-22002-AM and using AndyMark's Upper Hub Top Ring
 Vision Ring Assembly (AM-4672)







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			96	6	3.0625	Cut Part Blade 22.5 TE-22015 0.25	Cut Part Blade 22.5 TE-22015 0.25	Cut 10.4375 T	Part Blade FE-22014 0.25	Cut 30.5	Part TE-22035	Blade 0.25	Cut	Part E	Blade	Cut	Part	Blade	Cut	Part	Blade	Cut	Part	Blade	Cut	Part	Blade	Cut	Part E	Blade
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