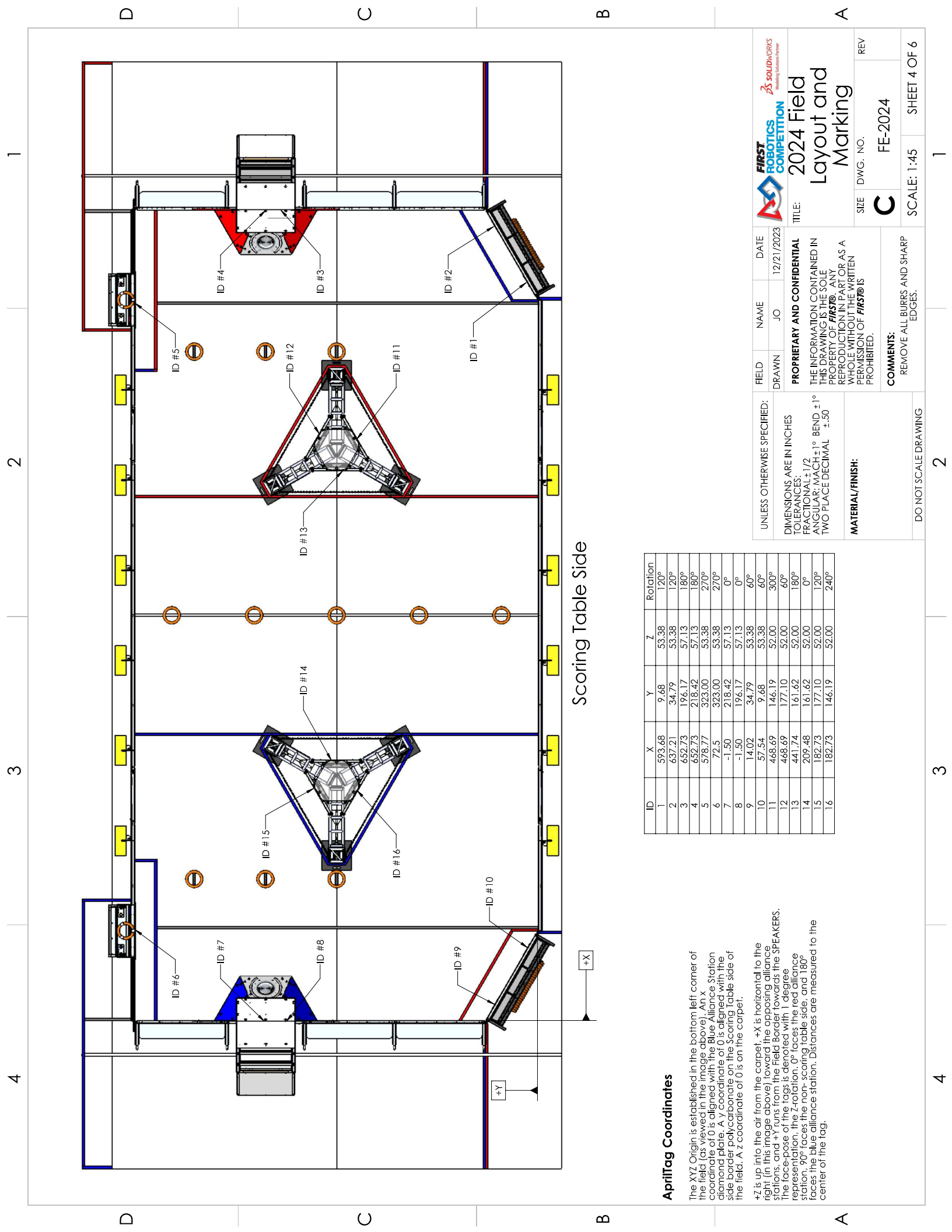


UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/2 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.50  MATERIAL/FINISH:  DO NOT SCALE DRAWING	FIELD	NAME	DATE	FIRST ROBOTICS COMPETITION 25 SOLIDWORKS Modeling Solutions Partner	
	DRAWN	DF	12/21/2023	TITLE: 2024 Field Layout and Marking	
	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.
	COMMENTS:  REMOVE ALL BURRS AND SHARP EDGES.			C	FE-2024
				REV	
SCALE: 1:50			SHEET 3 OF 6		




ID	X	Y	Z	Rotation
1	593.68	9.68	53.38	120°
2	637.21	34.79	53.38	120°
3	652.73	196.17	57.13	180°
4	652.73	218.42	57.13	180°
5	578.77	323.00	53.38	270°
6	72.5	323.00	53.38	270°
7	-1.50	218.42	57.13	0°
8	-1.50	196.17	57.13	0°
9	14.02	34.79	53.38	60°
10	57.54	9.68	53.38	60°
11	468.69	146.19	52.00	300°
12	468.69	177.10	52.00	60°
13	441.74	161.62	52.00	180°
14	209.48	161.62	52.00	0°
15	182.73	177.10	52.00	120°
16	182.73	146.19	52.00	240°

### AprilTag Coordinates

The XYZ Origin is established in the bottom left corner of the field (as viewed in the image above). An x coordinate of 0 is aligned with the Blue Alliance Station diamond plate. A y coordinate of 0 is aligned with the side border polycarbonate on the Scoring Table side of the field. A z coordinate of 0 is on the carpet.

+Z is up into the air from the carpet. +X is horizontal to the right (in this image above) toward the opposing alliance stations, and +Y runs from the field border towards the SPEAKERS. The face-pose of the tags is denoted with 1 degree representation, the Z-rotation, 0° faces the red alliance station, 90° faces the non-scoring table side, and 180° faces the blue alliance station. Distances are measured to the center of the tag.



2024 Field Layout and Marking

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL ±1/2

ANGULAR: MACH ±1° BEND ±1°

TWO PLACE DECIMAL ±.50

DATE

12/21/2023

FIELD NAME

JO

PROPRIETARY AND CONFIDENTIAL

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FE-2024

SCALE: 1:45

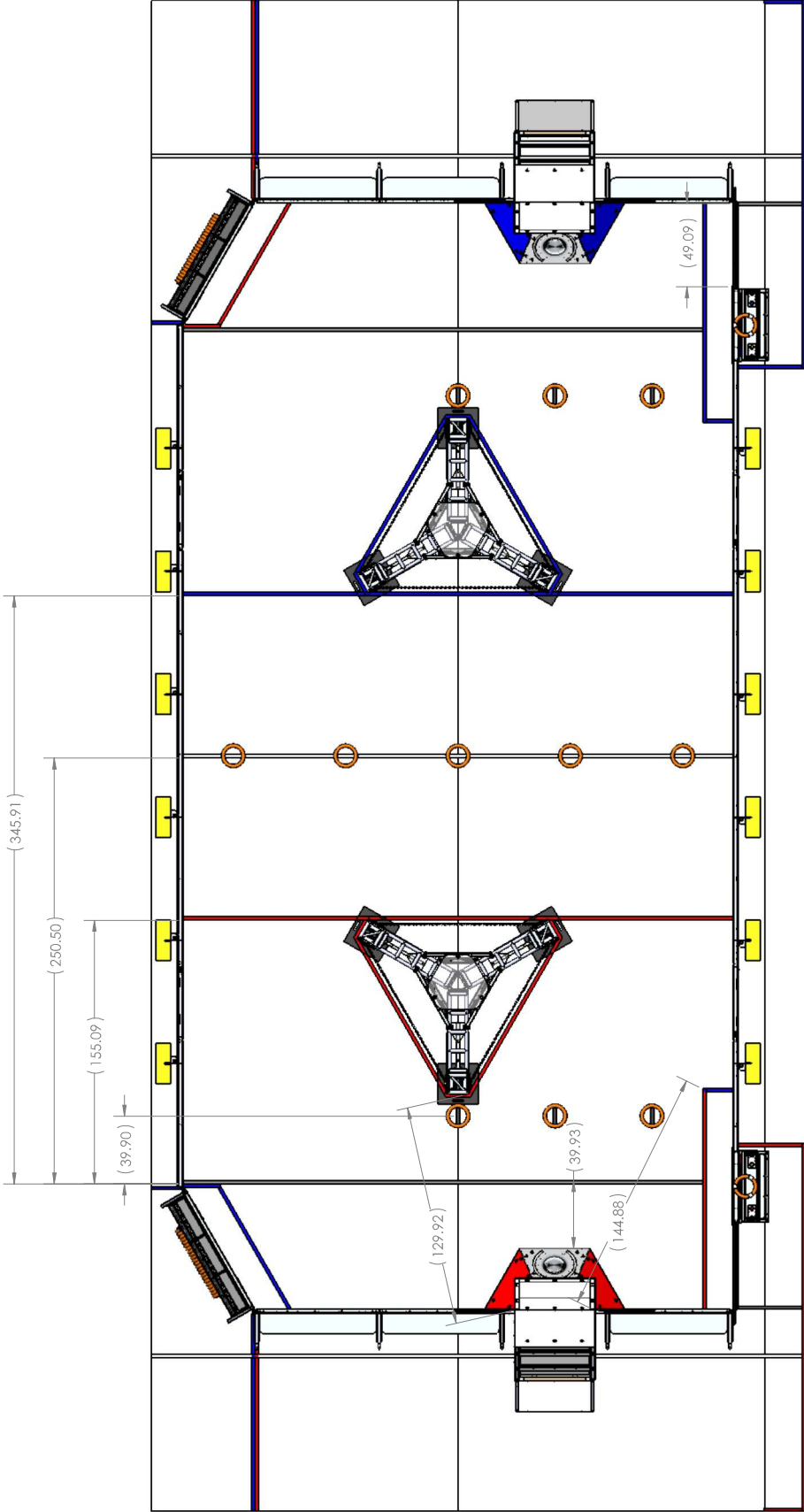
SHEET 4 OF 6


COMMENTS:

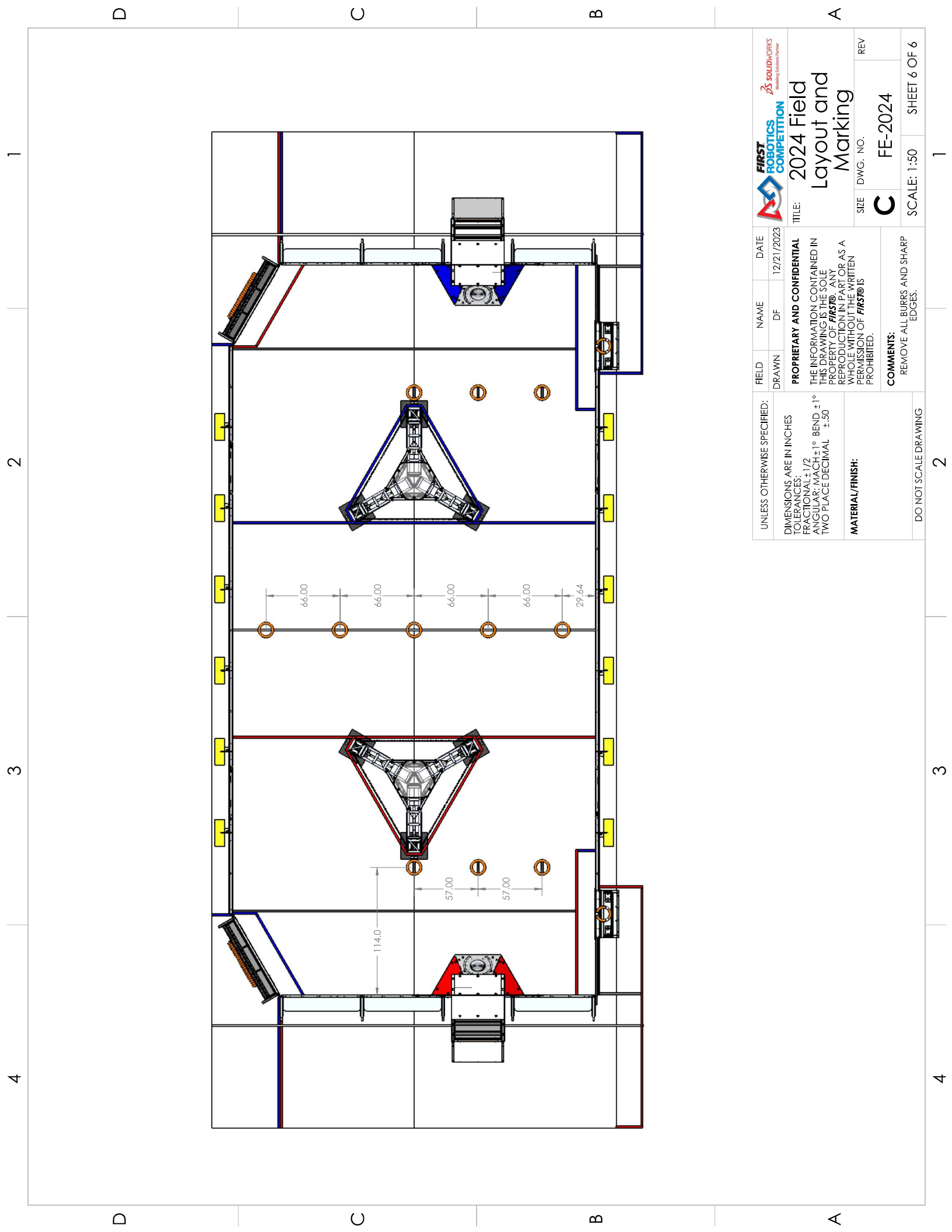
REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL/FINISH:

DO NOT SCALE DRAWING



UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± 1/2 ANGULAR: MACH ± 1° BEND ± 1° TWO PLACE DECIMAL ±.50  MATERIAL/FINISH:   DO NOT SCALE DRAWING	FIELD DRAWN	NAME DF	DATE 12/21/2023	 <b>FIRST ROBOTICS COMPETITION</b> <small>SOLIDWORKS Modeling Solutions Provider</small>		
				TITLE: 2024 Field Layout and Marking		
				SIZE	DWG. NO.	REV
				C		FE-2024
				COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.		
SCALE: 1:50			SHEET 5 OF 6			



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/2$ DECIMAL $\pm 1/16$ BEND $\pm 1^\circ$ ANGULAR: MACH $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .50$	FIELD DRAWN	NAME DF	DATE 12/21/2023	FIRST ROBOTICS COMPETITION 25 SOLIDWORKS Modeling Solutions Provider	
				TITLE: 2024 Field Layout and Marking	
MATERIAL/FINISH:	COMMENTS: REMOVE ALL BURRS AND SHARP EDGES.	SIZE DWG. NO.	REV	C FE-2024	
				SCALE: 1:50 SHEET 6 OF 6	