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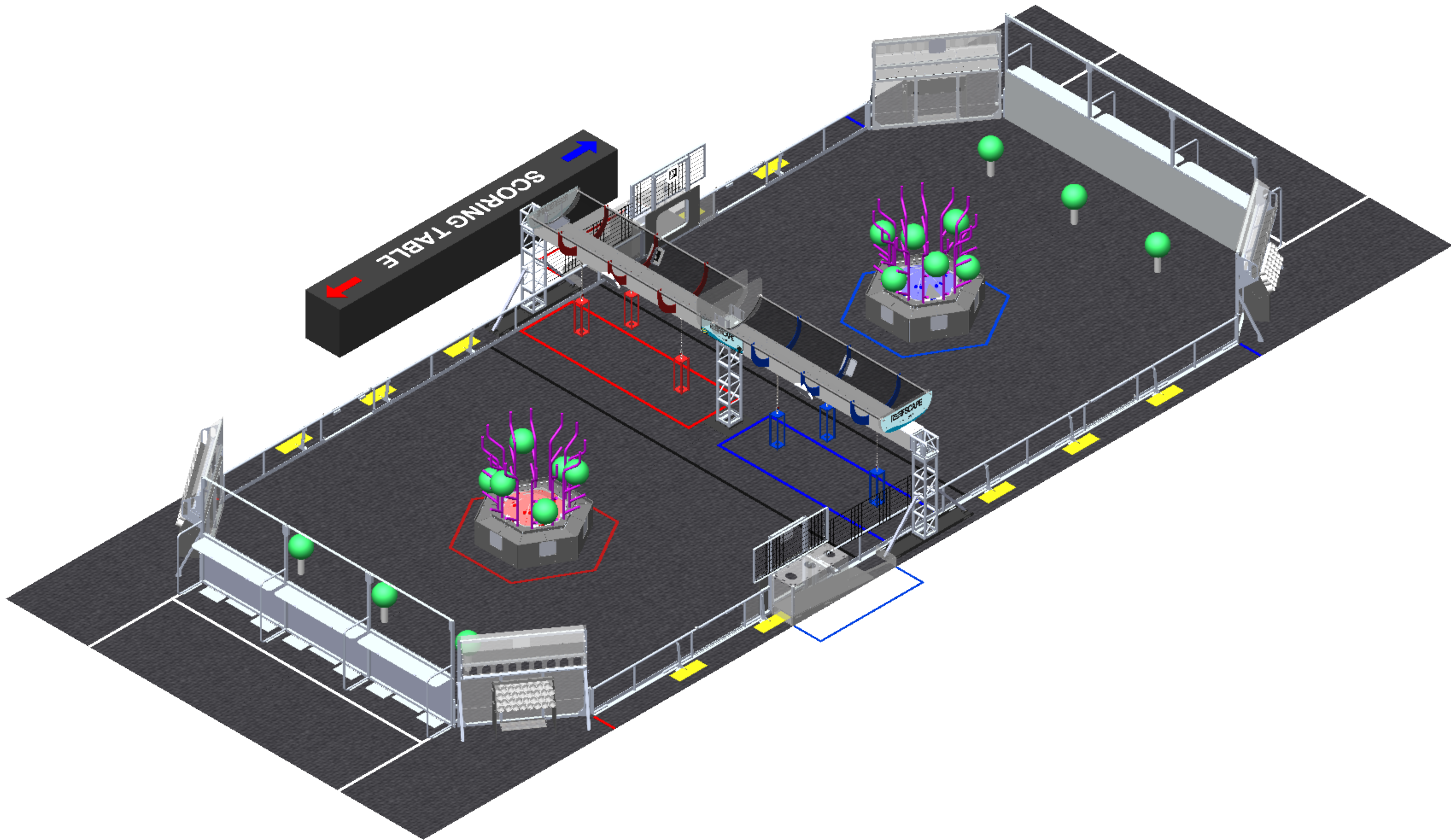
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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/2$
ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
TWO PLACE DECIMAL $\pm .50$

MATERIAL/FINISH:

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FIELD

NAME

DATE

DRAWN

DF

12/20/2024

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EDGES.



**FIRST
ROBOTICS
COMPETITION**

3D SOLIDWORKS
Modeling Solutions Partner

TITLE:

**2025 Field Layout
and Marking**

SIZE

C

DWG. NO.

FE-2025

REV

SCALE: 1:50

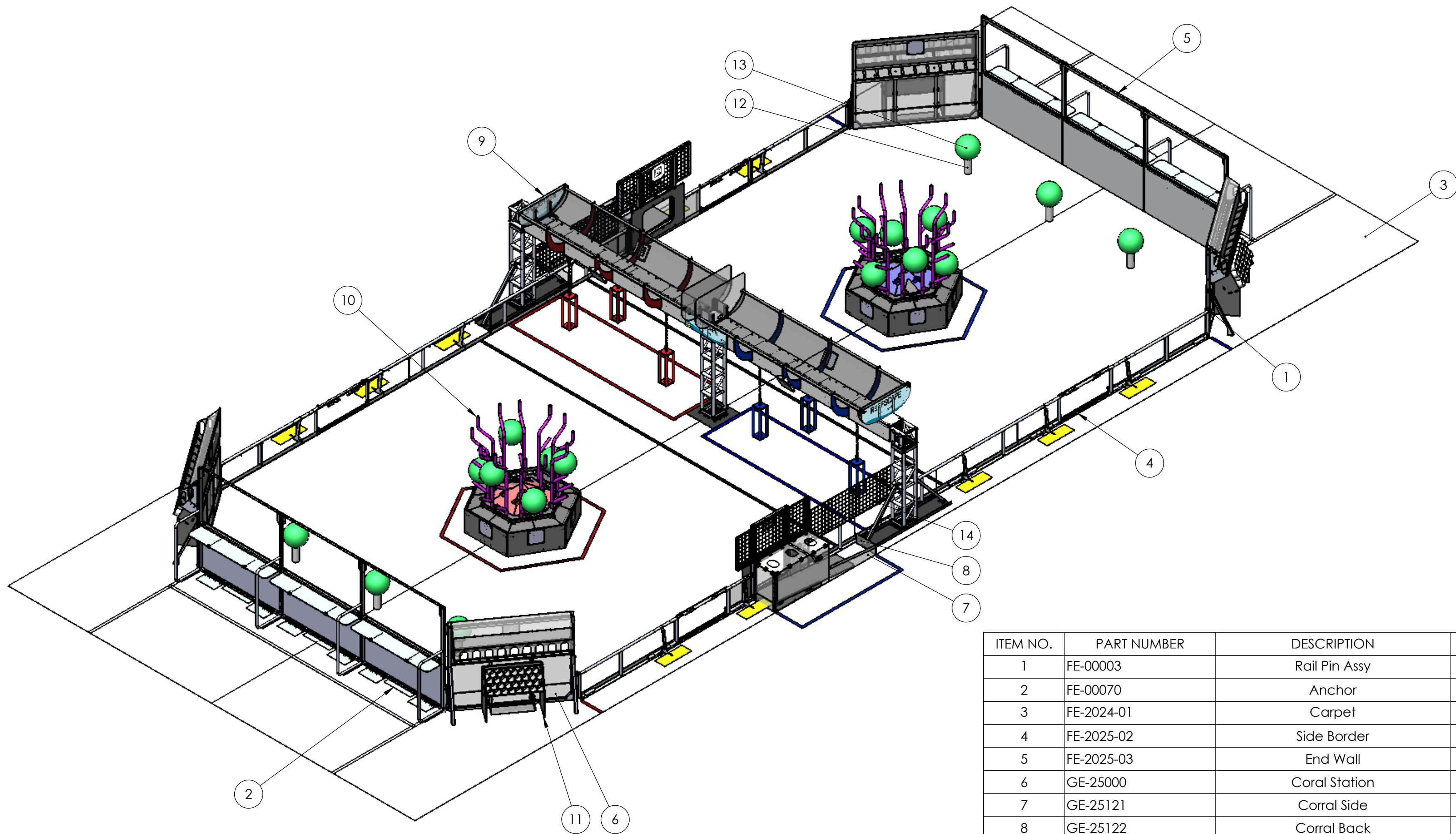
SHEET 1 OF 5

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FE-00003	Rail Pin Assy	8
2	FE-00070	Anchor	3
3	FE-2024-01	Carpet	2
4	FE-2025-02	Side Border	2
5	FE-2025-03	End Wall	2
6	GE-25000	Coral Station	4
7	GE-25121	Corral Side	2
8	GE-25122	Corral Back	2
9	GE-25200	Barge	1
10	GE-25300	Reef	2
11	GE-25410	Coral Holder	4
12	GE-25500	Coral	126
13	GE-25501	Algae	18
14	fence 2x6	ULINE Grid (Part# - H-4297)	2

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DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/2 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.50		DRAWN	DF	12/20/2024	TITLE: 2025 Field Layout and Marking					
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		REMOVE ALL BURRS AND SHARP EDGES.			SCALE: 1:50				SHEET 2 OF 5	
DO NOT SCALE DRAWING										

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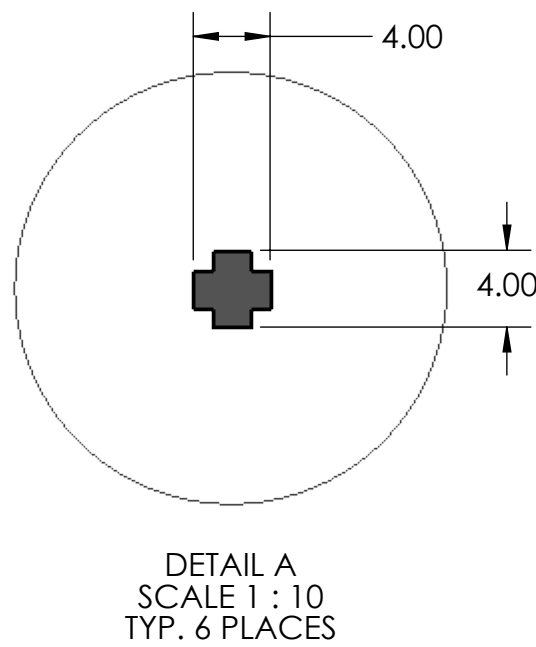
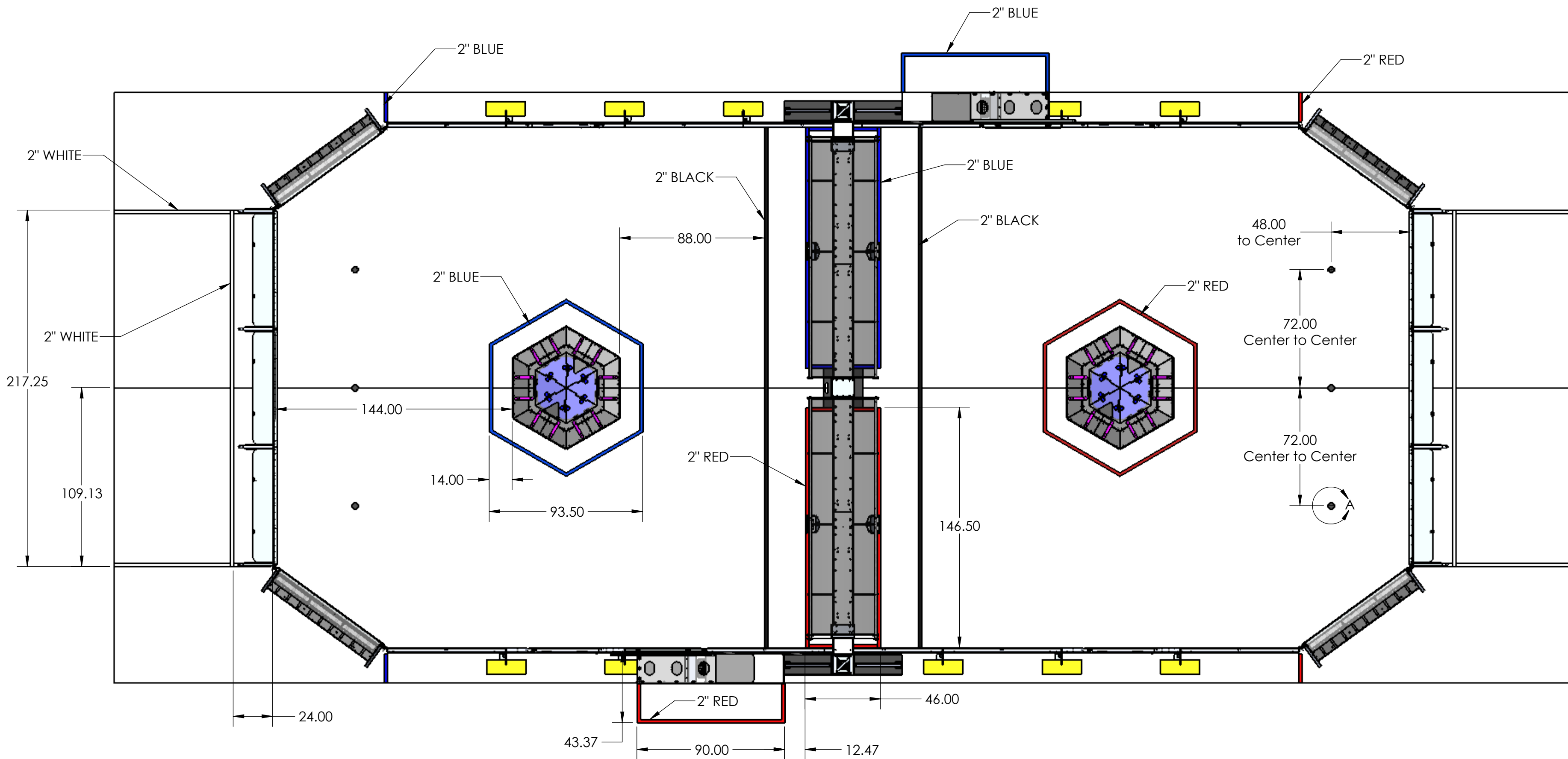
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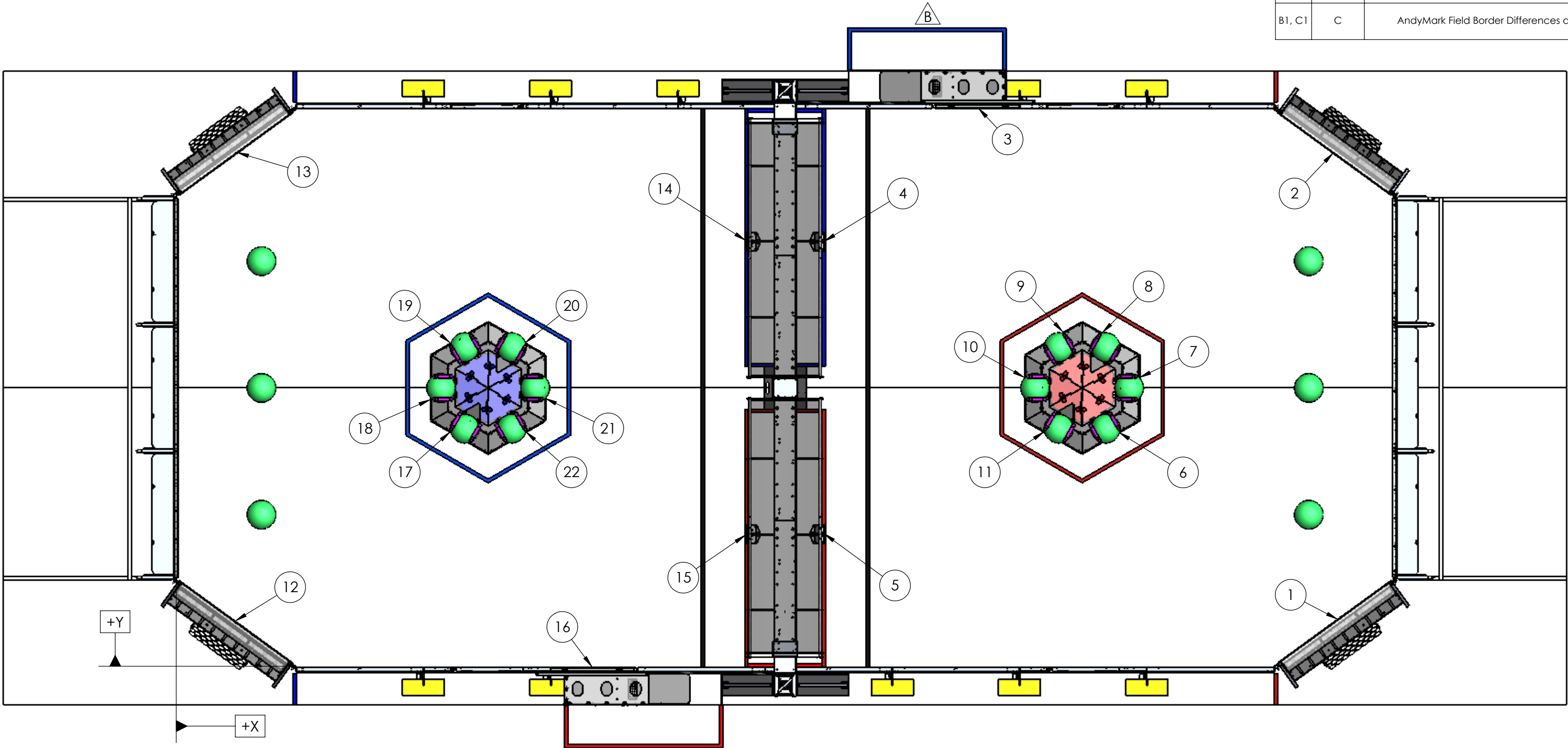
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	DRAWN	DF	12/20/2024		
	PROPRIETARY AND CONFIDENTIAL			SIZE	DWG. NO.
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			SCALE: 1:50		SHEET 3 OF 5

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
B2	A	"X-Rotation" changed to "Y-Rotation"	1/6/2025	JO
D2	B	Tape Colors Fixed	1/27/2025	JO
B1, C1	C	AndyMark Field Border Differences added	2/13/2025	JO



AndyMark Field Differences:
Please see Team Update 12
for more information about
why these differences exist,
how to adjust to different field
borders, and what field to expect
at events.

ID	X	Y
1	656.98	24.73
2	656.98	291.90
3	452.40	316.21
4	365.20	241.44
5	365.20	75.19
6	530.49	129.97
7	546.87	158.30
8	530.49	186.63
9	497.77	186.63
10	481.39	158.30
11	497.77	129.97
12	33.91	24.73
13	33.91	291.90
14	325.68	241.44
15	325.68	75.19
16	238.49	0.42
17	160.39	129.97
18	144.00	158.30
19	160.39	186.63
20	193.10	186.63
21	209.49	158.30
22	193.10	129.97



April Tag Coordinates

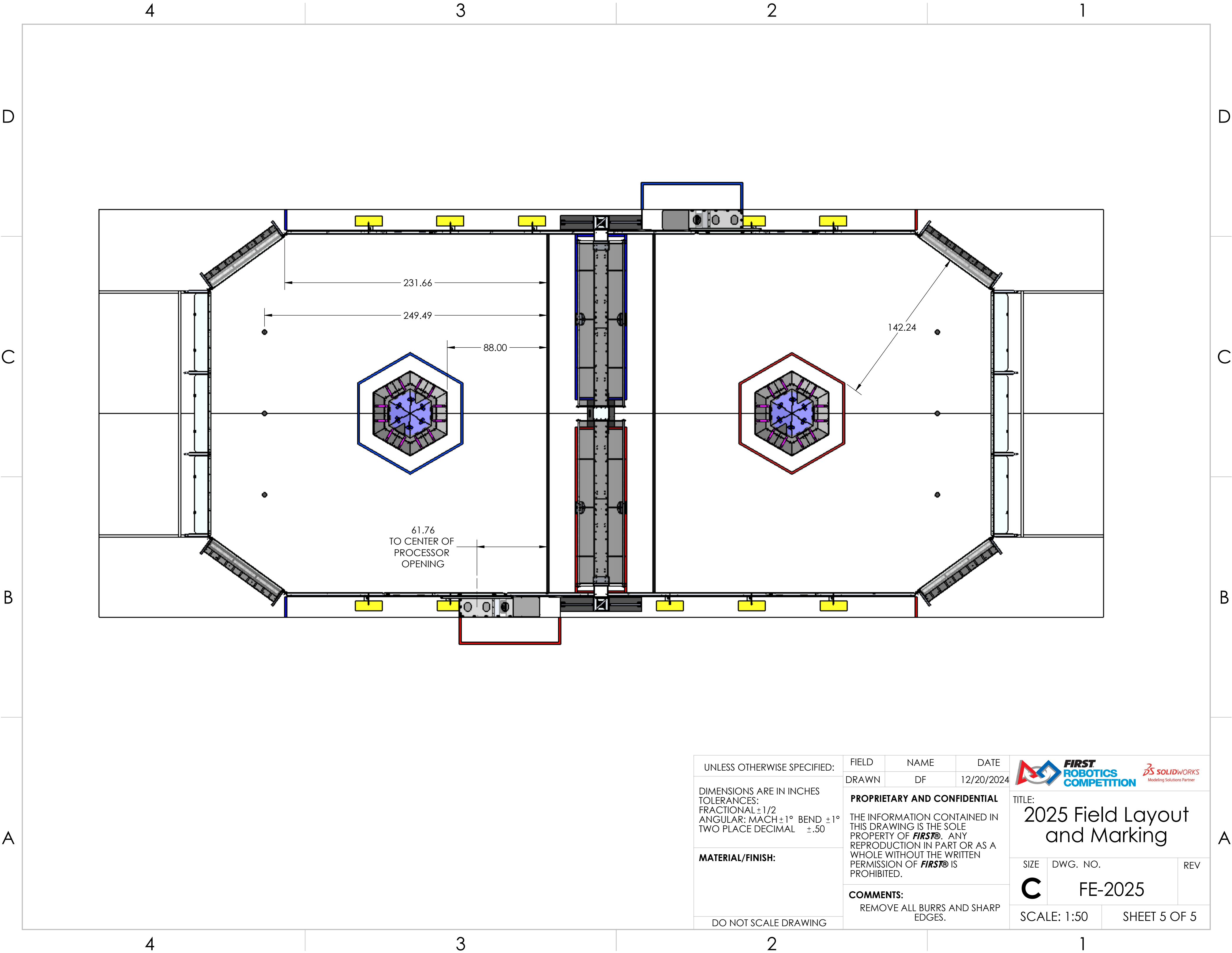
The XYZ Origin is established in the bottom left corner of the field (as viewed in the image above). An x coordinate of 0 is aligned with the Blue Alliance Station diamond plate, A y coordinate of 0 is aligned with the side border polycarbonate on the Scoring Table side of the field. A z coordinate of 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 REEFS. 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. For the X-Rotation, 0° is perpendicular to the Z plane, and 90 degrees is facing the carpet. Distances are measured to the center of the tag.

ID	X	Y	Z	Z-Rotation	Y-Rotation
1	657.37	25.80	58.50	126°	0°
2	657.37	291.20	58.50	234°	0°
3	455.15	317.15	51.25	270°	0°
4	365.20	241.64	73.54	0°	30°
5	365.20	75.39	73.54	0°	30°
6	530.49	130.17	12.13	300°	0°
7	546.87	158.50	12.13	0°	0°
8	530.49	186.83	12.13	60°	0°
9	497.77	186.83	12.13	120°	0°
10	481.39	158.50	12.13	180°	0°
11	497.77	130.17	12.13	240°	0°
12	33.51	25.80	58.50	54°	0°
13	33.51	291.20	58.50	306°	0°
14	325.68	241.64	73.54	180°	30°
15	325.68	75.39	73.54	180°	30°
16	235.73	-0.15	51.25	90°	0°
17	160.39	130.17	12.13	240°	0°
18	144.00	158.50	12.13	180°	0°
19	160.39	186.83	12.13	120°	0°
20	193.10	186.83	12.13	60°	0°
21	209.49	158.50	12.13	0°	0°
22	193.10	130.17	12.13	300°	0°

UNLESS OTHERWISE SPECIFIED:	FIELD	NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/2 ANGULAR: MACH ±1° BEND ±1° TWO PLACE DECIMAL ±.50	DRAWN	JO	12/20/2024
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SIZE C	DWG. NO. FE-2025			REV C	
SCALE: 1:50			SHEET 4 OF 5		



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FIELD	NAME	DATE
DRAWN	DF	12/20/2024

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TITLE:
2025 Field Layout and Marking

SIZE	DWG. NO.	REV
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C	FE-2025	
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SCALE: 1:50	SHEET 5 OF 5
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