

4

3

2

1

D

D

C

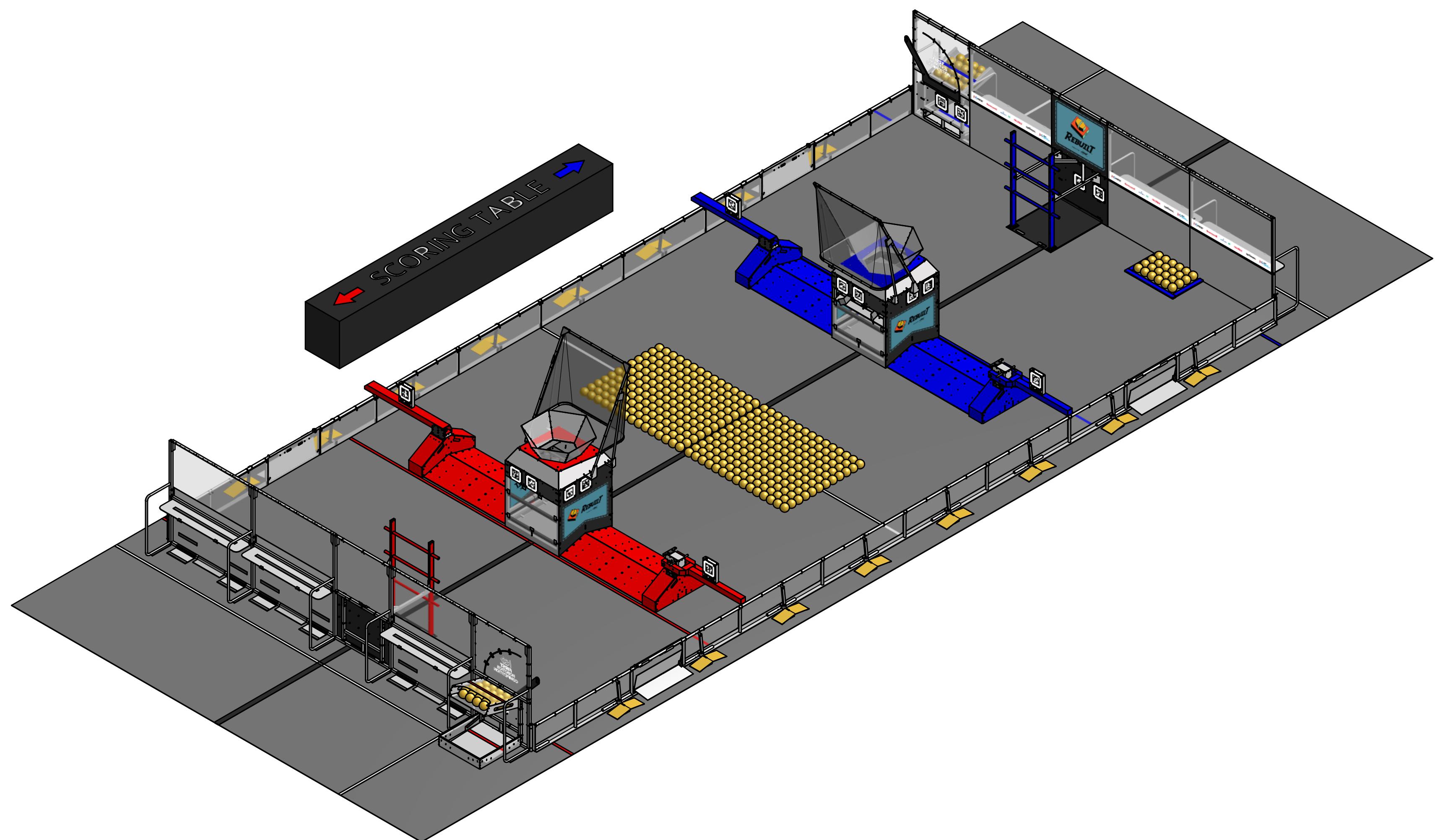
C

B

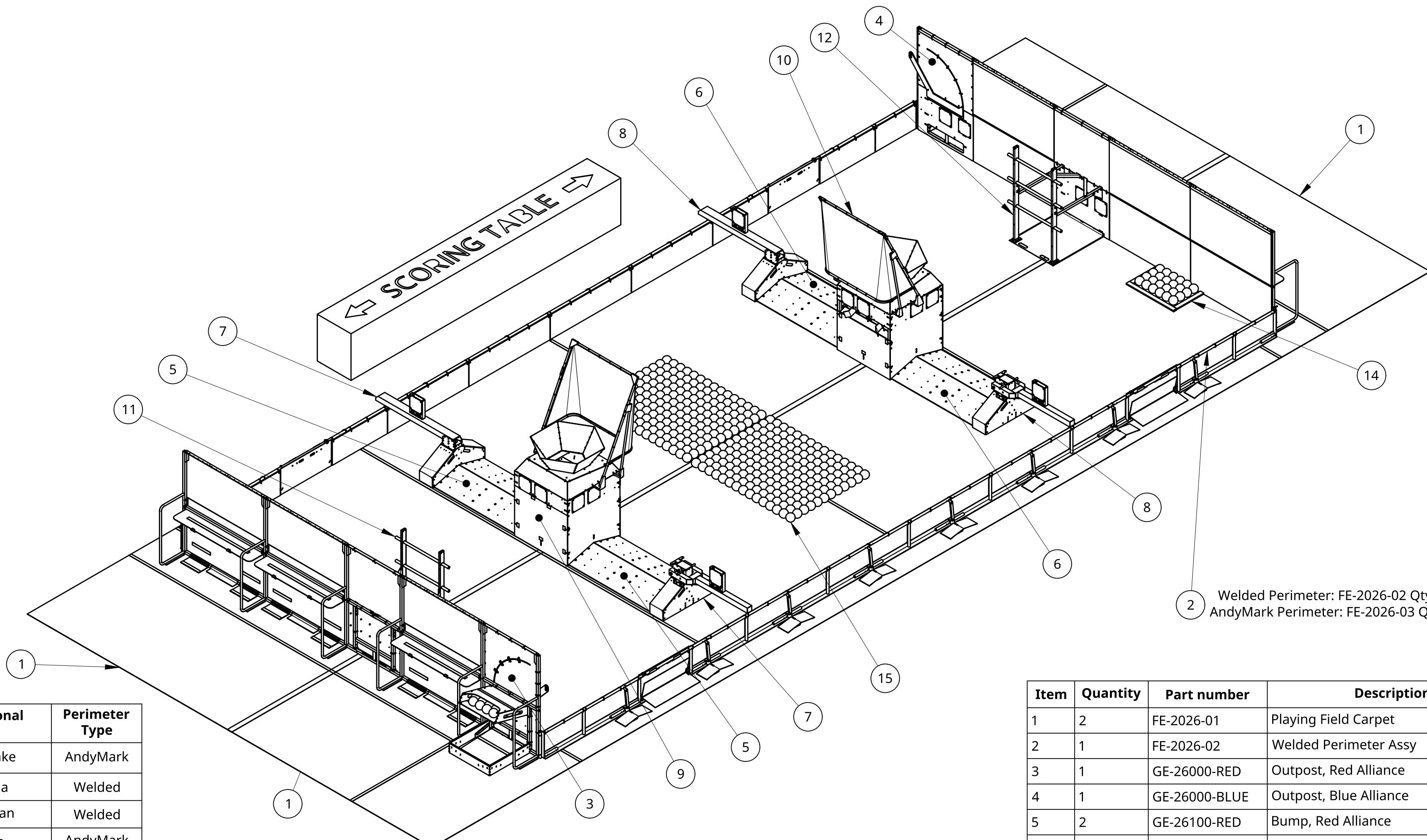
B

A

A



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR = ± 5° .XXX = ±0.250	FIELD	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	OCD	12/10/2025		
MATERIAL	TITLE			
REBUILT™ PLAYING FIELD				
SIZE	DWG NO.	FE-2026	REV.	
SCALE	1:50	SHEET	1 of 11	



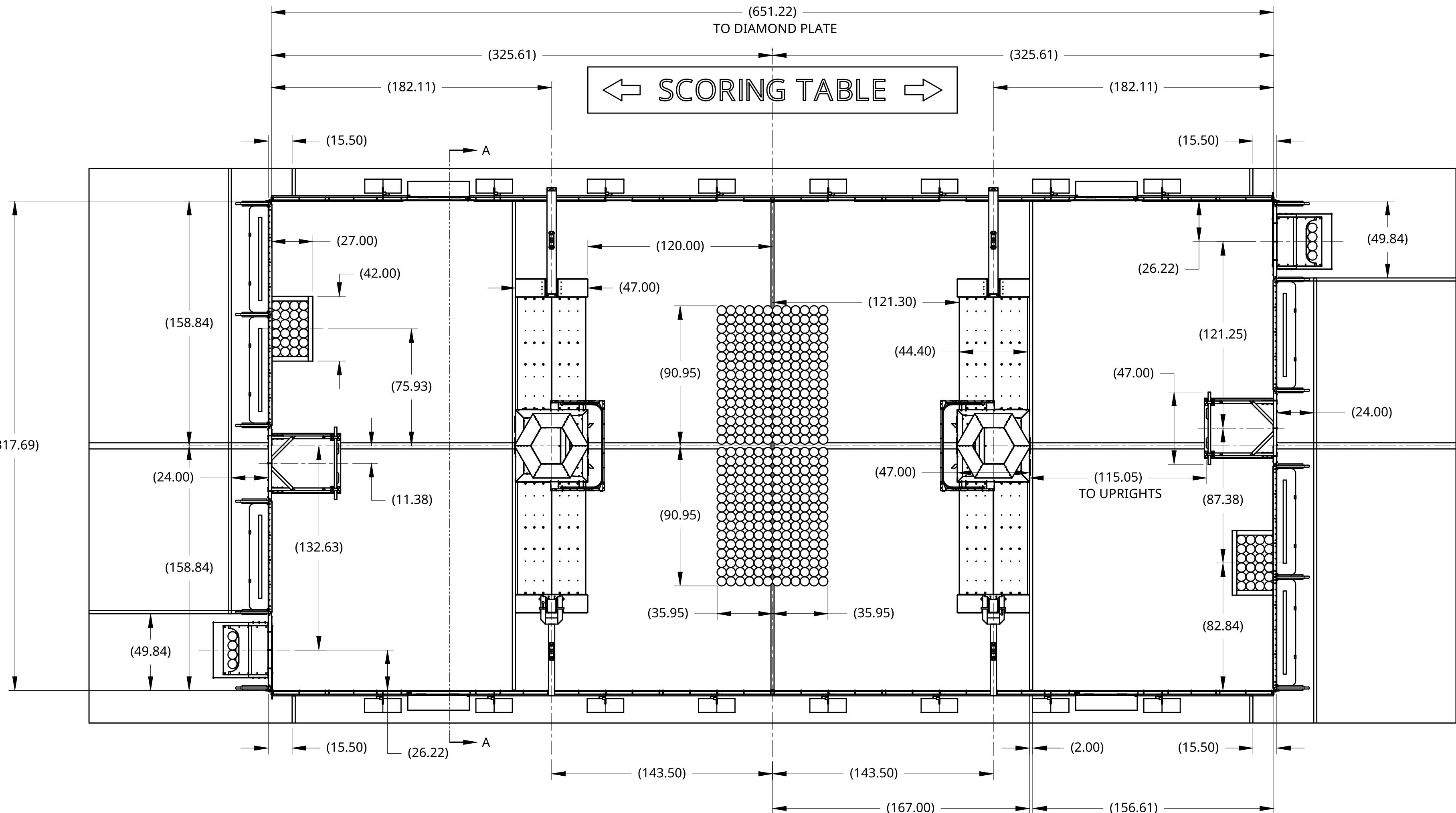
District or Regional Location	Perimeter Type
FIRST Chesapeake	AndyMark
FIRST California	Welded
FIRST in Michigan	Welded
FIRST in Texas	AndyMark
FIRST Indiana Robotics	AndyMark
FIRST Israel	Welded
FIRST Mid-Atlantic	Welded
FIRST North Carolina	AndyMark
FIRST South Carolina	Welded
FIRST Wisconsin	AndyMark
NE FIRST	AndyMark
Australia (Regionals)	Welded
Brazil (Regionals)	AndyMark
Canada (Regionals)	Welded
China (Regionals)	AndyMark
Mexico (Regionals)	AndyMark
Turkiye (Regionals)	AndyMark
United States (Regionals)	Welded

Item	Quantity	Part number	Description
1	2	FE-2026-01	Playing Field Carpet
2	1	FE-2026-02	Welded Perimeter Assy
3	1	GE-26000-RED	Outpost, Red Alliance
4	1	GE-26000-BLUE	Outpost, Blue Alliance
5	2	GE-26100-RED	Bump, Red Alliance
6	2	GE-26100-BLUE	Bump, Blue Alliance
7	1	GE-26200-RED	Trench, Red Alliance
8	1	GE-26200-BLUE	Trench, Blue Alliance
9	1	GE-26300-RED	Hub, Red Alliance
10	1	GE-26300-BLUE	Hub, Blue Alliance
11	1	GE-26500-RED	Tower, Red Alliance
12	1	GE-26500-BLUE	Tower, Blue Alliance
13	1	GE-26600-RED	Depot, Red Alliance
14	1	GE-26600-BLUE	Depot, Blue Alliance
15	504	GE-26900	Fuel

UNLESS OTHERWISE SPECIFIED, .XX = ±1.00   ANGULAR = ± 5° .XXX = ±0.250	FIELD DRAWN	NAME OCD	DATE 12/10/2025	MATERIAL	TITLE REBUILT™ PLAYING FIELD
DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS					
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.					
SHEET C	DWG NO.	REV.			
SCALE 1:50	1:50		2 of 11		

## REFERENCE DIMENSIONS: WELDED PERIMETER

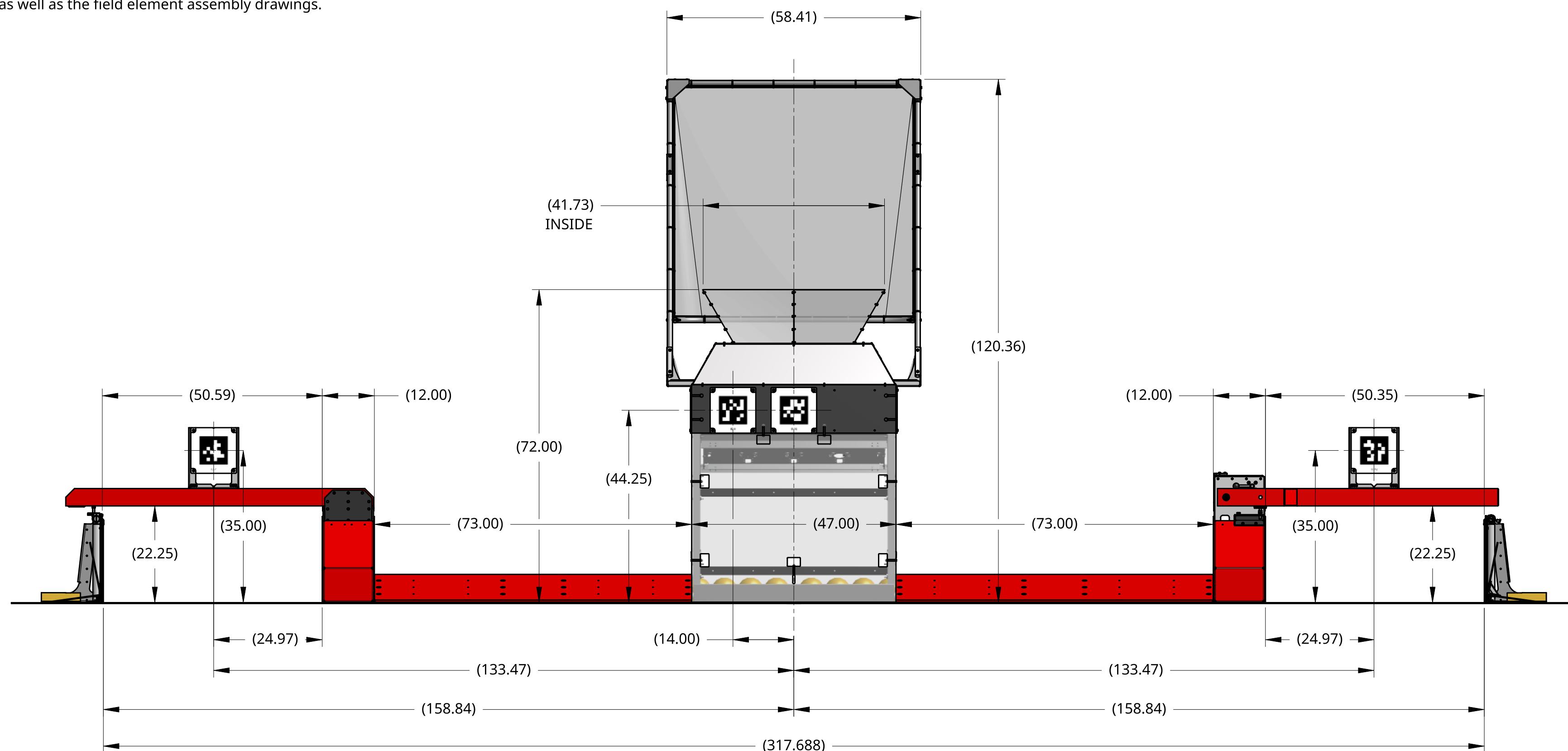
NOTE: Dimensions in parentheses are "reference dimensions" provided for convenience only and do not carry a tolerance. A limited set of dimensions on the field have specified tolerances, and those can be found under the sheets labeled "Controlled Dimensions" as well as the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED, .XX = ±1.00   ANGULAR ± 5° .XXX = ±0.250	FIELD DRAWN	NAME OCD	DATE 12/10/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING  BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL		TITLE REBUILT™ PLAYING FIELD	
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.			SHEET 1:50	REV. C DWG NO. FE-2026
SCALE	1:50	SHEET	3 of 11	

## REFERENCE DIMENSIONS: WELDED PERIMETER

NOTE: Dimensions in parentheses are "reference dimensions" provided for convenience only and do not carry a tolerance. A limited set of dimensions on the field have specified tolerances, and those can be found under the sheets labeled "Controlled Dimensions" as well as the field element assembly drawings.

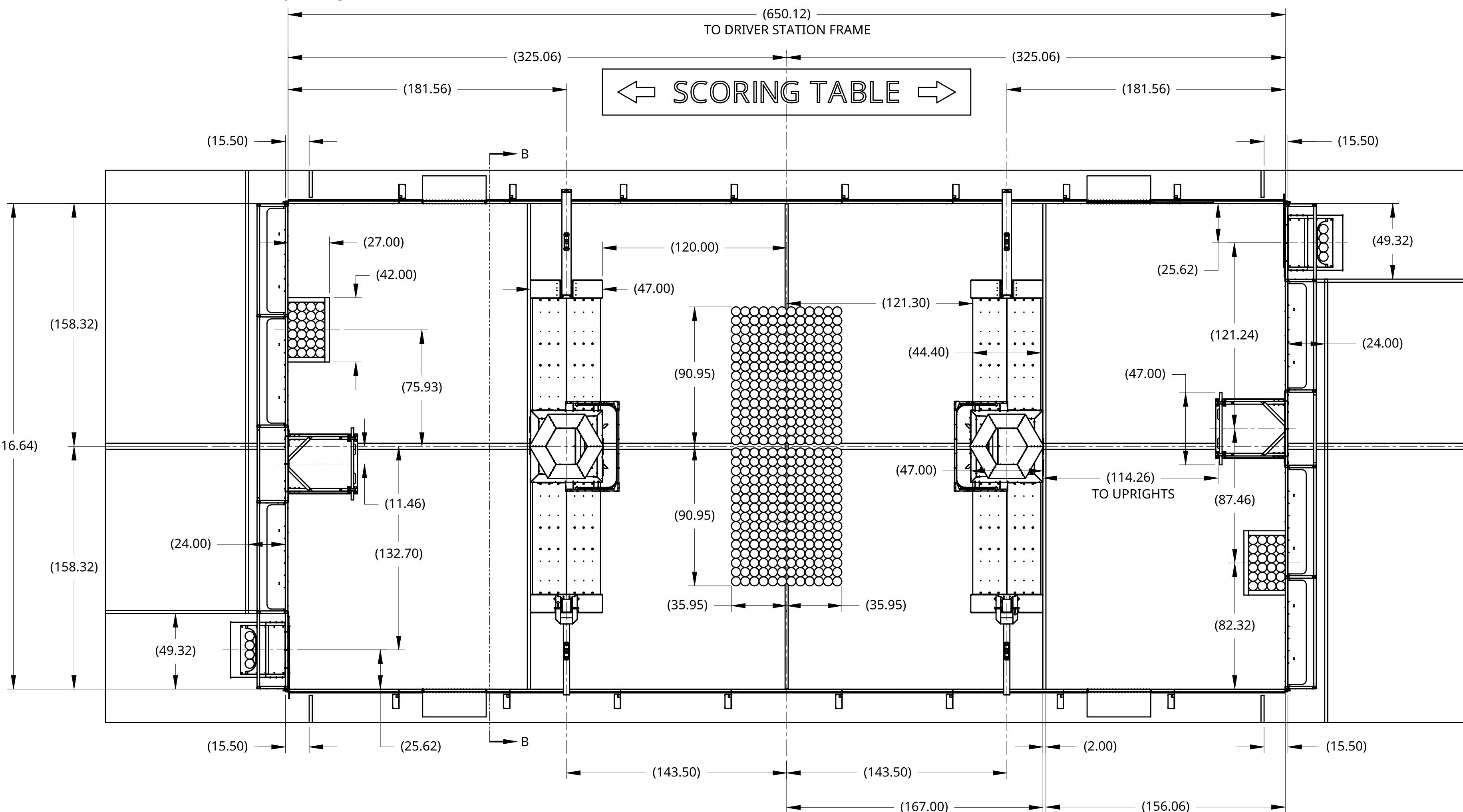


SECTION A - A  
SCALE 1:20

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 <b>REBUILT™ PLAYING FIELD</b>
	DRAWN	OCD	12/10/2025	
DO NOT SCALE DRAWING	MATERIAL			
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SHEET	DWG NO.	REV.		
C	FE-2026			
SCALE	1:50	SHEET	4 of 11	

## REFERENCE DIMENSIONS: ANDYMARK PERIMETER

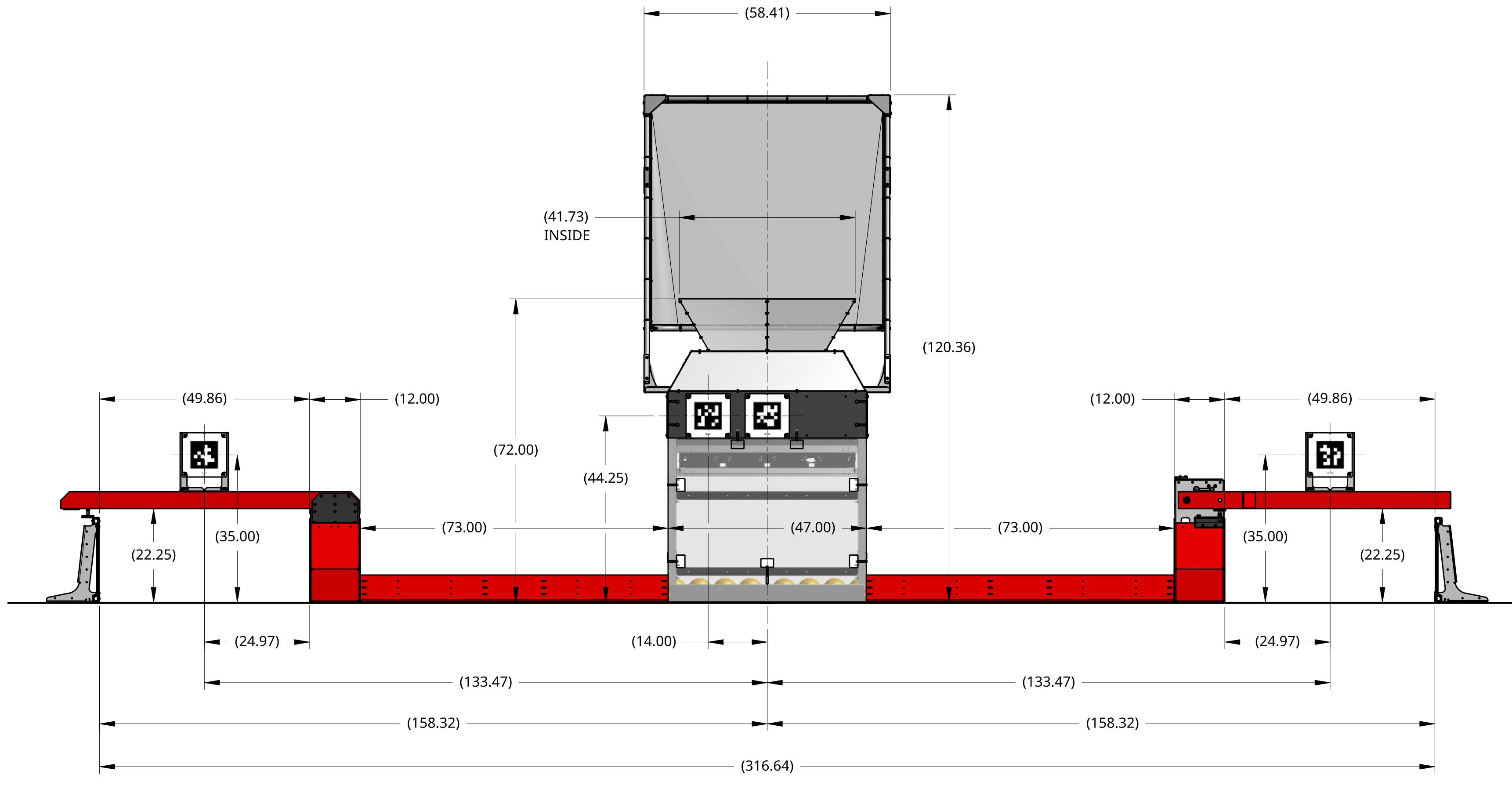
NOTE: Dimensions in parentheses are "reference dimensions" provided for convenience only and do not carry a tolerance. A limited set of dimensions on the field have specified tolerances, and those can be found under the sheets labeled "Controlled Dimensions" as well as the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED, .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD DRAWN	NAME OCD	DATE 12/10/2025	FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING  BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL		TITLE REBUILT™ PLAYING FIELD	
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 C	DWG NO. FE-2026	REV.	
SCALE 1:50	SHEET 5 of 11			

## REFERENCE DIMENSIONS: ANDYMARK PERIMETER

NOTE: Dimensions in parentheses are "reference dimensions" provided for convenience only and do not carry a tolerance. A limited set of dimensions on the field have specified tolerances, and those can be found under the sheets labeled "Controlled Dimensions" as well as the field element assembly drawings.

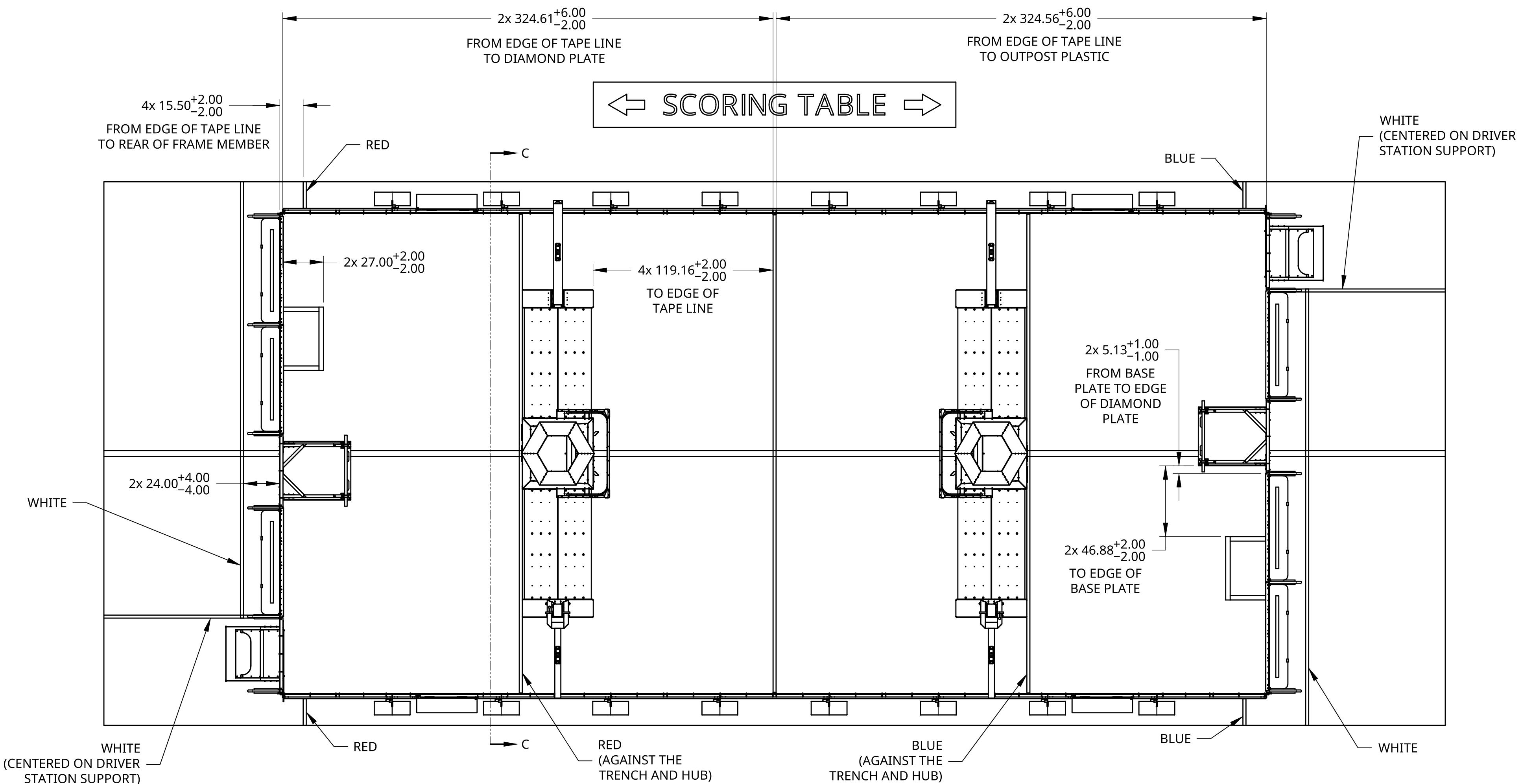


SECTION B - B  
SCALE 1:20

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	
	DRAWN	OCD	12/10/2025	
DO NOT SCALE DRAWING				MATERIAL
BREAK ALL SHARP EDGES AND REMOVE BURRS				TITLE
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.				REBUILT™ PLAYING FIELD
SIZE	DWG NO.			
C	FE-2026			REV.
SCALE	1:50			SHEET
				6 of 11

# CONTROLLED DIMENSIONS: WELDED PERIMETER

NOTE: There are additional controlled dimensions in the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD      NAME      DATE  
DRAWN      OCD      12/10/2025

MATERIAL

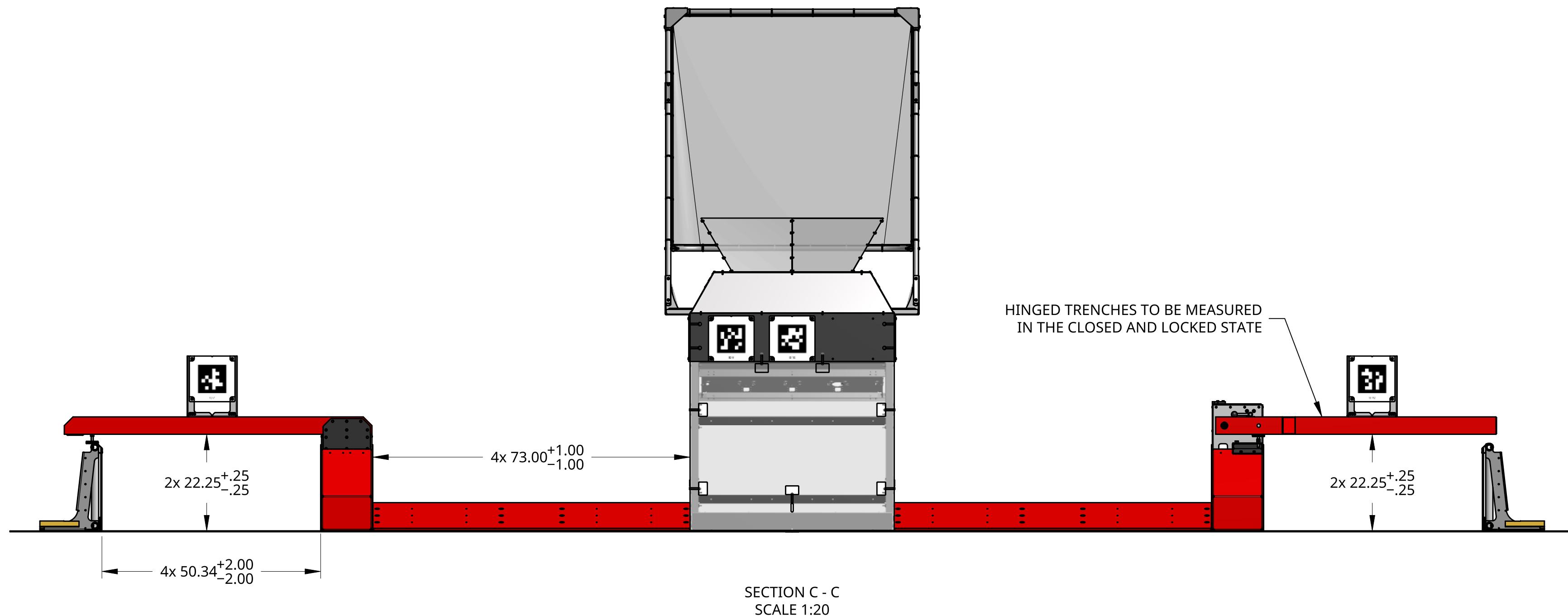
FIRST  
ROBOTICS  
COMPETITION

REBUILT™ PLAYING FIELD

SIZE	DWG NO.	REV.
C	FE-2026	
SCALE	1:50	SHEET
		7 of 11

# CONTROLLED DIMENSIONS: WELDED PERIMETER

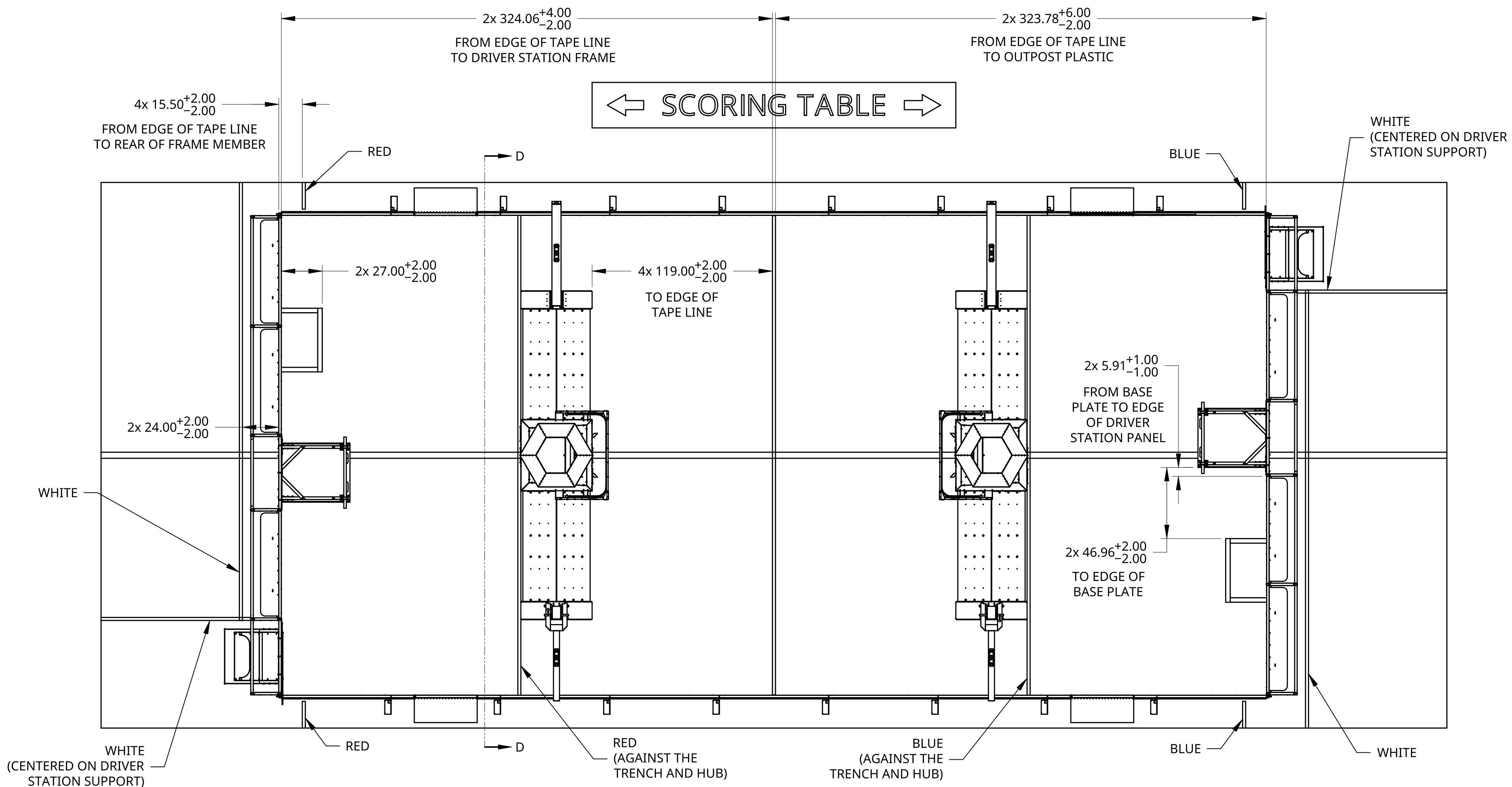
NOTE: There are additional controlled dimensions in the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm 1.00$ ANGULAR $\pm 5^\circ$ .XXX = $\pm 0.250$	FIELD	NAME	DATE	<b>FIRST ROBOTICS COMPETITION</b>
	DRAWN	OCD	12/10/2025	
DO NOT SCALE DRAWING	MATERIAL	TITLE	REBUILT™ PLAYING FIELD	SIZE <b>C</b> DWG NO. <b>FE-2026</b> REV.
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				SCALE 1:50 SHEET 8 of 11

# CONTROLLED DIMENSIONS: ANDYMARK PERIMETER

NOTE: There are additional controlled dimensions in the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
 $.XX = \pm 1.00$  ANGULAR  $\pm 5^\circ$   
 $.XXX = \pm 0.250$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD	NAME	DATE
DRAWN	OCD	12/10/2025

MATERIAL

FIRST  
ROBOTICS  
COMPETITION

REBUILT™ PLAYING FIELD

SIZE C DWG NO.

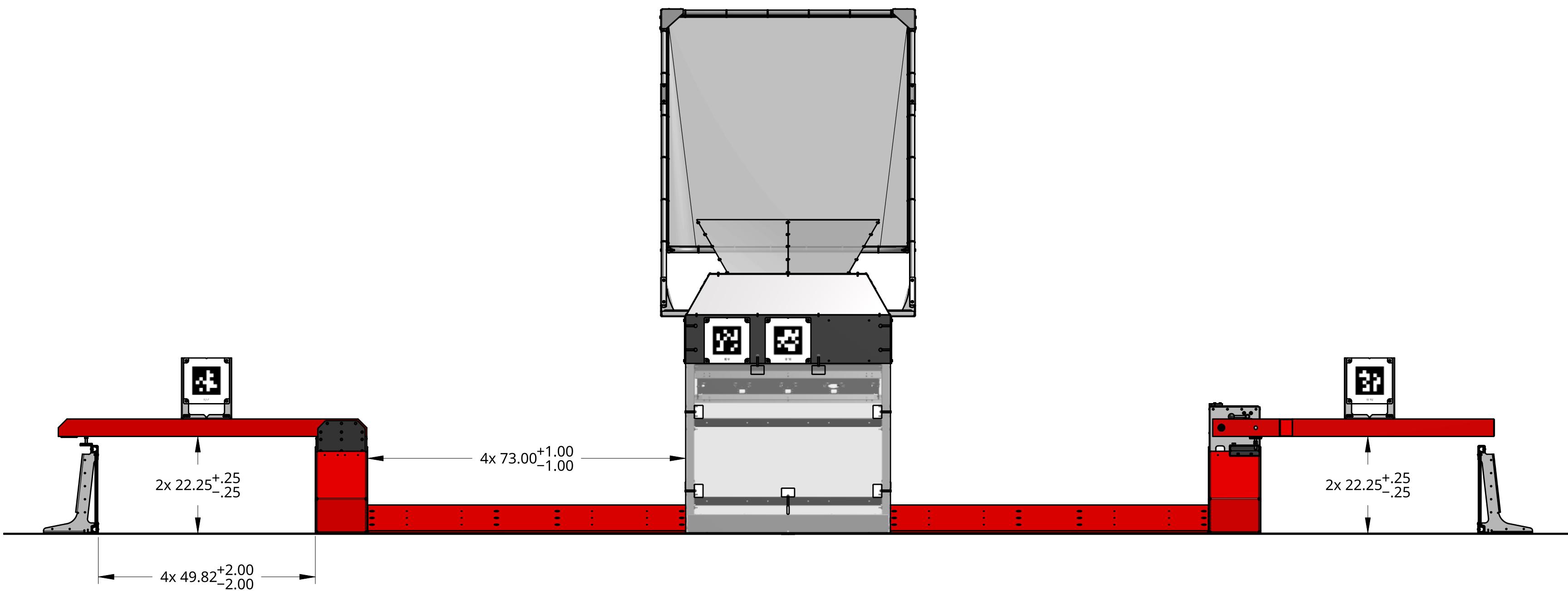
FE-2026

REV.

SCALE 1:50 SHEET 9 of 11

# CONTROLLED DIMENSIONS: ANDYMARK PERIMETER

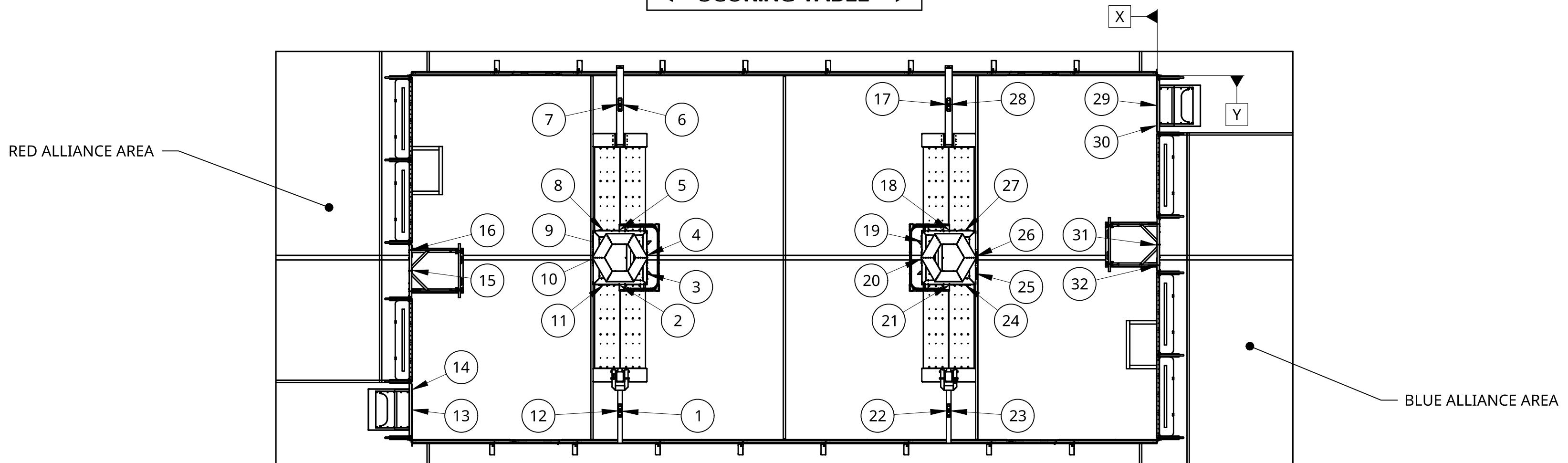
NOTE: There are additional controlled dimensions in the field element assembly drawings.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	OCD	12/10/2025	
DO NOT SCALE DRAWING	MATERIAL	TITLE	REBUILT™ PLAYING FIELD	SIZE C DWG NO. FE-2026 REV.
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				SCALE 1:50 SHEET 10 of 11

## APRILTAGS

## ← SCORING TABLE →

**Welded Perimeter**

ID	Field Element	X	Y	Z	Z-Rotation
1	Trench, Red	(467.64)	(292.31)	(35.00)	180°
2	Hub, Red	(469.11)	(182.60)	(44.25)	90°
3	Hub, Red	(445.35)	(172.84)	(44.25)	180°
4	Hub, Red	(445.35)	(158.84)	(44.25)	180°
5	Hub, Red	(469.11)	(135.09)	(44.25)	270°
6	Trench, Red	(467.64)	(25.37)	(35.00)	180°
7	Trench, Red	(470.59)	(25.37)	(35.00)	0°
8	Hub, Red	(483.11)	(135.09)	(44.25)	270°
9	Hub, Red	(158.34)	(144.84)	(44.25)	0°
10	Hub, Red	(492.88)	(158.84)	(44.25)	0°
11	Hub, Red	(483.11)	(182.60)	(44.25)	90°
12	Trench, Red	(470.59)	(292.31)	(35.00)	0°
13	Outpost, Red	(650.92)	(291.47)	(21.75)	180°
14	Outpost, Red	(650.92)	(274.47)	(21.75)	180°
15	Tower, Red	(650.90)	(170.22)	(21.75)	180°
16	Tower, Red	(650.90)	(153.22)	(21.75)	180°
17	Trench, Blue	(183.59)	(25.37)	(35.00)	0°
18	Hub, Blue	(182.11)	(135.09)	(44.25)	270°
19	Hub, Blue	(205.87)	(144.84)	(44.25)	0°
20	Hub, Blue	(205.87)	(158.84)	(44.25)	0°
21	Hub, Blue	(182.11)	(182.60)	(44.25)	90°
22	Trench, Blue	(183.59)	(292.31)	(35.00)	0°
23	Trench, Blue	(180.64)	(292.31)	(35.00)	180°
24	Hub, Blue	(168.11)	(182.60)	(44.25)	90°
25	Hub, Blue	(158.34)	(172.84)	(44.25)	180°
26	Hub, Blue	(158.34)	(158.84)	(44.25)	180°
27	Hub, Blue	(168.11)	(135.09)	(44.25)	270°
28	Trench, Blue	(180.64)	(25.37)	(35.00)	180°
29	Outpost, Blue	(0.30)	(26.22)	(21.75)	0°
30	Outpost, Blue	(0.30)	(43.22)	(21.75)	0°
31	Tower, Blue	(0.32)	(147.47)	(21.75)	0°
32	Tower, Blue	(0.32)	(164.47)	(21.75)	0°

**AndyMark Perimeter**

ID	Field Element	X	Y	Z	Z-Rotation
1	Trench, Red	(467.08)	(291.79)	(35.00)	180°
2	Hub, Red	(468.56)	(182.08)	(44.25)	90°
3	Hub, Red	(444.80)	(172.32)	(44.25)	180°
4	Hub, Red	(444.80)	(158.32)	(44.25)	180°
5	Hub, Red	(468.56)	(134.56)	(44.25)	270°
6	Trench, Red	(467.08)	(24.85)	(35.00)	180°
7	Trench, Red	(470.03)	(24.85)	(35.00)	0°
8	Hub, Red	(482.56)	(134.56)	(44.25)	270°
9	Hub, Red	(157.79)	(144.32)	(44.25)	0°
10	Hub, Red	(492.33)	(158.32)	(44.25)	0°
11	Hub, Red	(482.56)	(182.08)	(44.25)	90°
12	Trench, Red	(470.03)	(291.79)	(35.00)	0°
13	Outpost, Red	(649.58)	(291.02)	(21.75)	180°
14	Outpost, Red	(649.58)	(274.02)	(21.75)	180°
15	Tower, Red	(649.57)	(169.78)	(21.75)	180°
16	Tower, Red	(649.57)	(152.78)	(21.75)	180°
17	Trench, Blue	(183.03)	(24.85)	(35.00)	0°
18	Hub, Blue	(181.56)	(134.56)	(44.25)	270°
19	Hub, Blue	(205.32)	(144.32)	(44.25)	0°
20	Hub, Blue	(205.32)	(158.32)	(44.25)	0°
21	Hub, Blue	(181.56)	(182.08)	(44.25)	90°
22	Trench, Blue	(183.03)	(291.79)	(35.00)	0°
23	Trench, Blue	(180.08)	(291.79)	(35.00)	180°
24	Hub, Blue	(167.56)	(182.08)	(44.25)	90°
25	Hub, Blue	(157.79)	(172.32)	(44.25)	180°
26	Hub, Blue	(157.79)	(158.32)	(44.25)	180°
27	Hub, Blue	(167.56)	(134.56)	(44.25)	270°
28	Trench, Blue	(180.08)	(24.85)	(35.00)	180°
29	Outpost, Blue	(0.54)	(25.62)	(21.75)	0°
30	Outpost, Blue	(0.54)	(42.62)	(21.75)	0°
31	Tower, Blue	(0.55)	(146.86)	(21.75)	0°
32	Tower, Blue	(0.55)	(163.86)	(21.75)	0°

**AprilTag Coordinates**

The XYZ origin is established in the top right corner of the field (as viewed in the image above). An X coordinate of 0 is aligned with the Blue Alliance Station diamond plate (or extrusion frame for the AndyMark perimeter). A Y coordinate of 0 is aligned with the Scoring Table side guardrail polycarbonate (or extrusion frame for the AndyMark perimeter). A Z coordinate of 0 is on the surface of the carpet. Distances are measured to the center of the front face of the tag.

+Z is up in the air from the carpet, +X is toward the red alliance station (left, in the image above), and +Y is away from the scoring table (down, in the image above). The orientation of the tag is specified by the Z-rotation. 0° faces the Red Alliance Station, 90° faces the audience side (non-Scoring Table side), and 180° faces the Blue Alliance Station.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00   ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	OCD	12/10/2025	
DO NOT SCALE DRAWING	MATERIAL		TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS			REBUILT™ PLAYING FIELD	
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.	REV.	
	C	FE-2026		
SCALE	1:80		SHEET	11 of 11

D

D

C

C

(180)

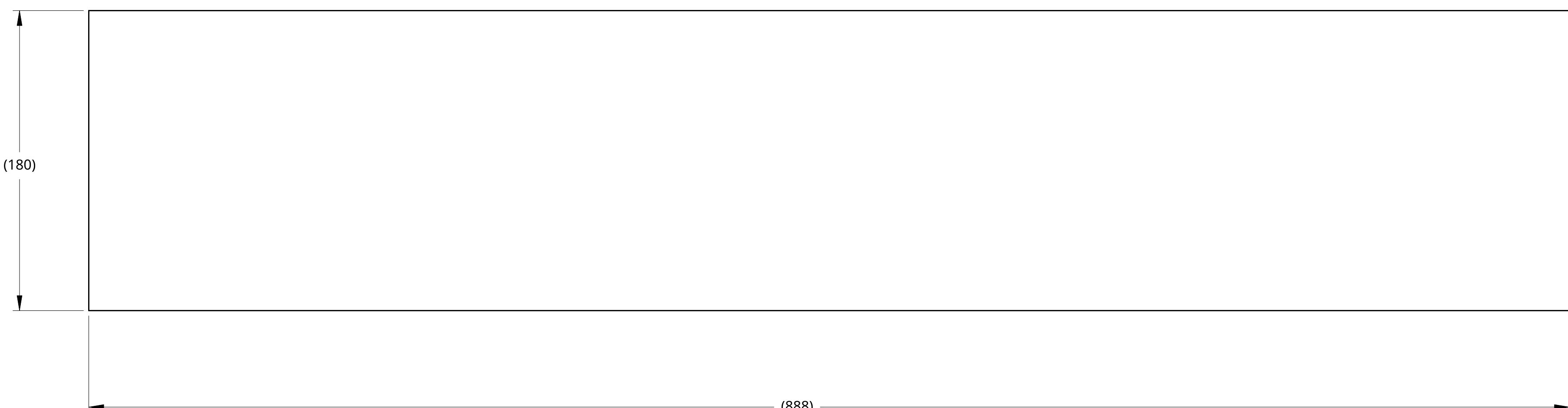
(888)

B

B

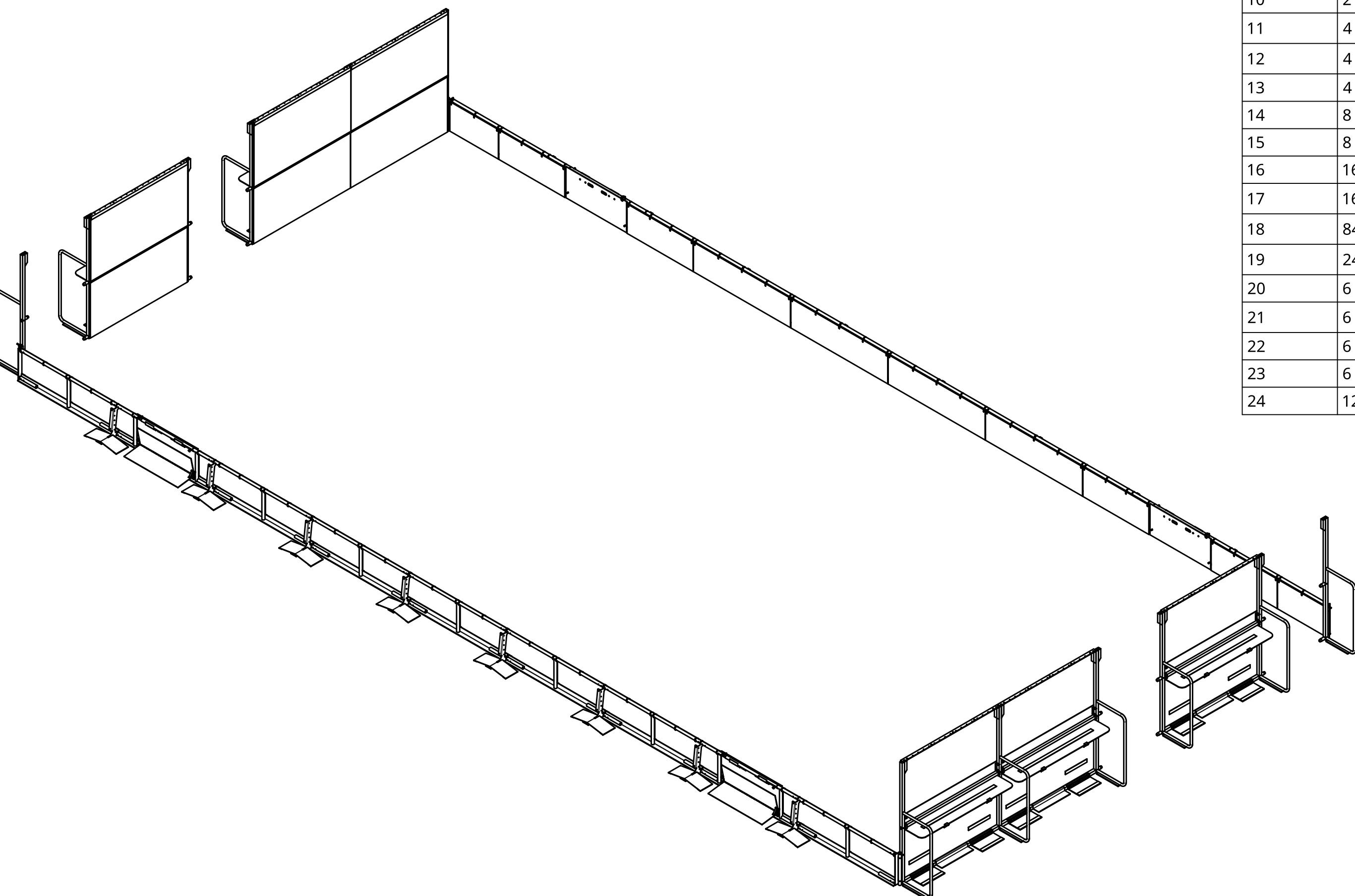
A

A

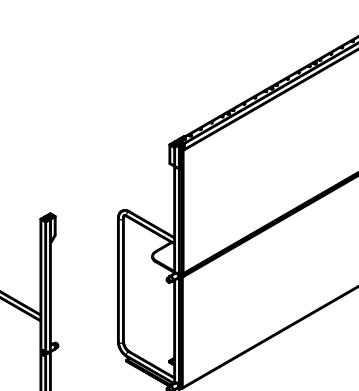


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD DRAWN	NAME CO	DATE 12/24/2025	 FIRST ROBOTICS COMPETITION
DO NOT SCALE DRAWING  BREAK ALL SHARP EDGES AND REMOVE BURRS	MATERIAL SHAW FLOORS, PHILADELPHIA COMMERCIAL, NEYLAND II 20, "66561 MEDALLION"	TITLE PLAYING FIELD CARPET		
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 C	DWG NO. FE-2026-01	REV.	
	SCALE 1:50	SHEET 1 of 1		

D



C



B

Item	Quantity	Part number	Description
1	4	FE-00003	Rail Pin Assy
2	8	FE-00048	Driver Station Support Assy
3	2	FE-00061	Corner Support, Left Assembly
4	2	FE-00063	Corner Support, Right Assembly
5	12	FE-00320	Driver Station Sponsor Bracket Assy
6	6	GE-26901	Drivers Station Sponsor Panel
7	4	FE-00014	Field Entry Ramp
8	10	FE-00022	Field Rail Assy, Middle
9	2	FE-00023	Field Rail Assy, Left
10	2	FE-00024	Field Rail Assy, Right
11	4	FE-00029	Field Gate, Assy
12	4	FE-00047	Gate Plastic Assy
13	4	FE-00055	Field Plastic "A" with Hook
14	8	FE-00056	Field Plastic "B"
15	8	FE-00057	Field Plastic "C"
16	16	FE-00058	Trip Guard
17	16	FE-00059	Outrigger Assy
18	84		Cable Tie, 120lb, Black
19	24		Hex bolt 1/4-20 x 1 Steel Grade 5
20	6	FE-00007	Field Top Rail
21	6	FE-00012	Driver Station Acrylic
22	6	FE-00043	End Panel Assy
23	6	FE-00071	Field Border Anchor
24	12	FE-00090	Driver Station Shelf Support

D

C

B

A

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD

NAME

DATE

DRAWN

OCD

12/15/2025

MATERIAL

TITLE



WELDED PERIMETER ASSY

SIZE

DWG NO.

FE-2026-02

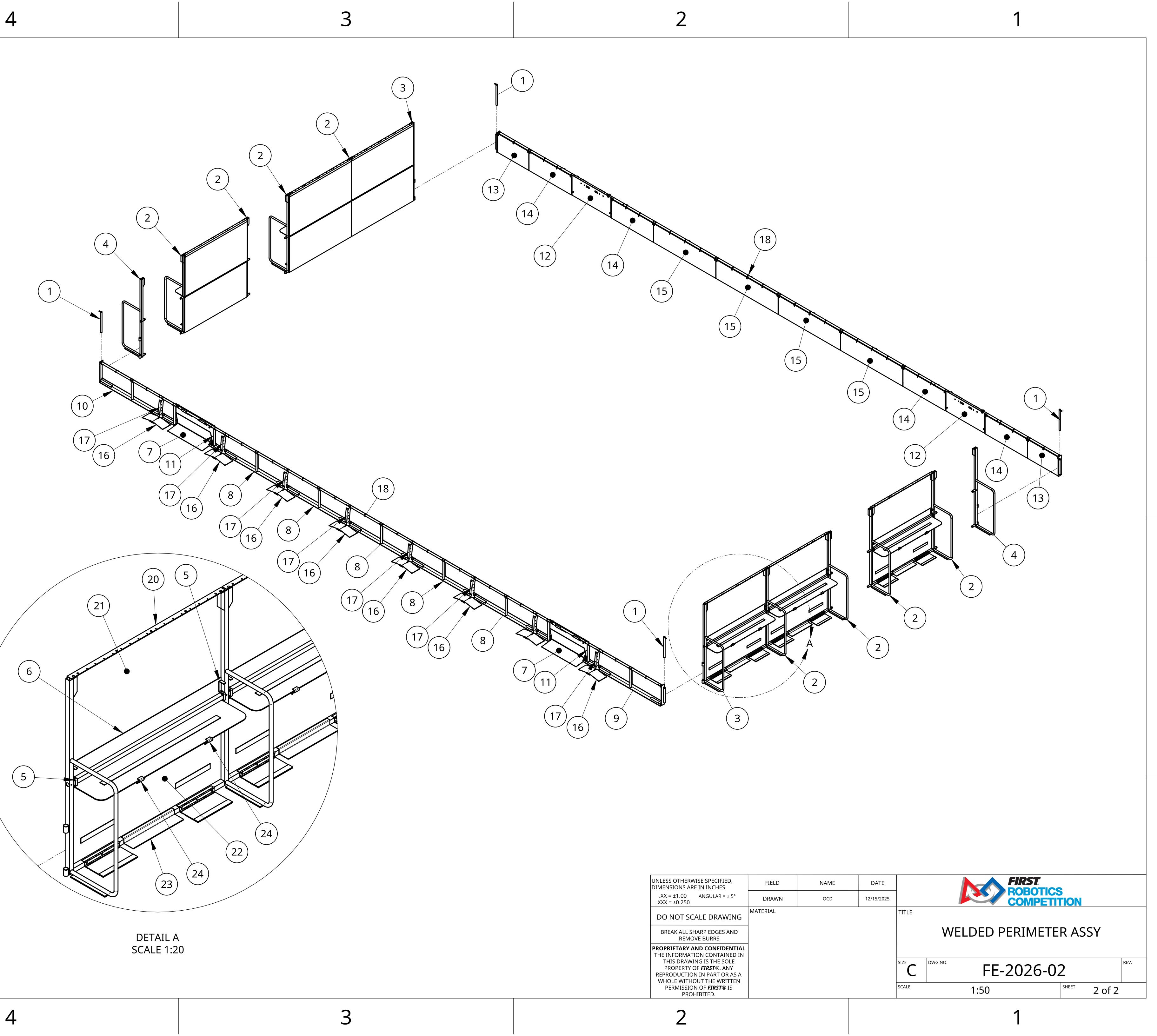
REV.

SCALE

1:50

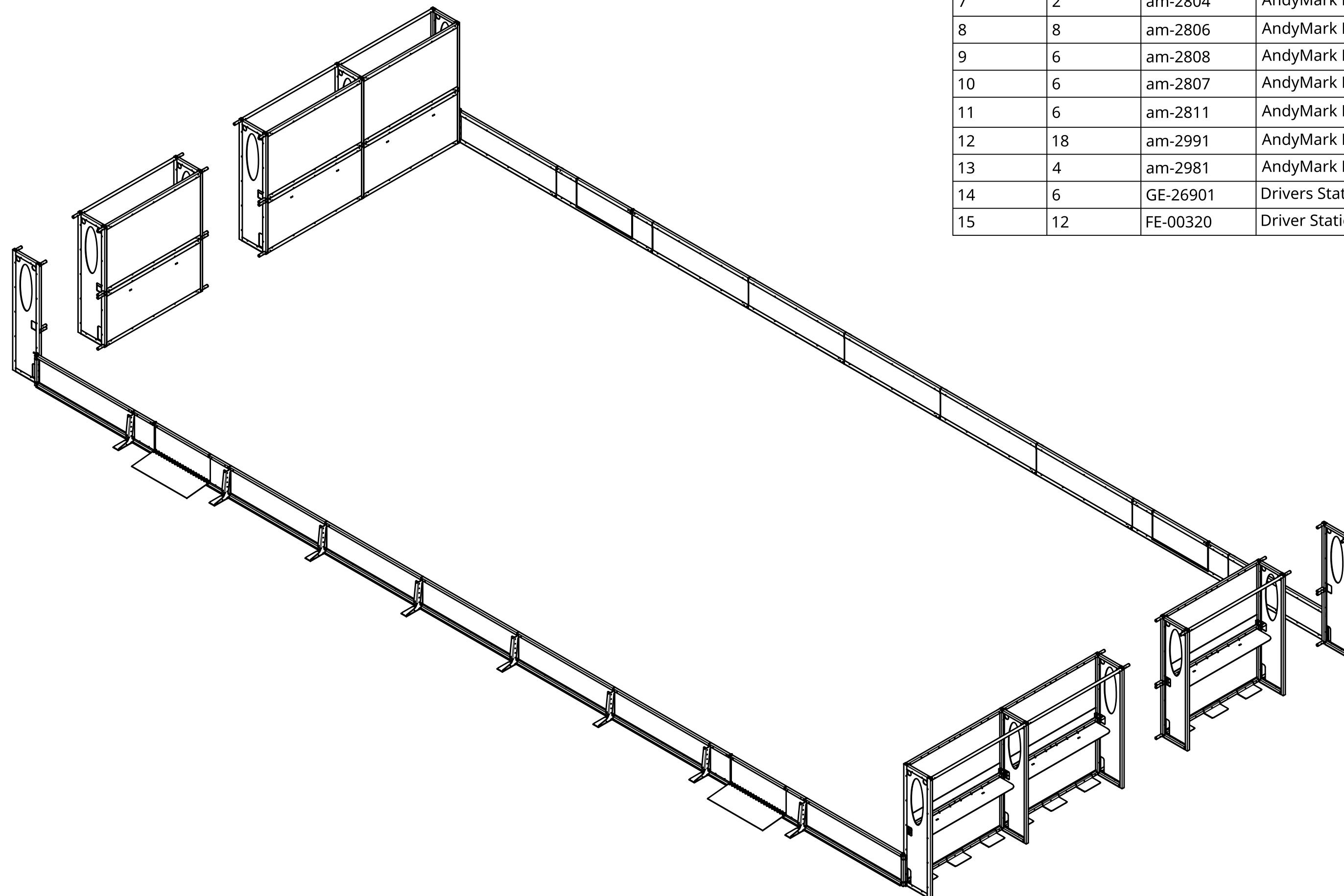
SHEET

1 of 2



D

D



C

C

B

B

A

A

Item	Quantity	Part number	Description
1	4	am-2802	AndyMark Perimeter Gate Section
2	2	am-2803	AndyMark Perimeter End Rail Section (Left)
3	2	am-2821	AndyMark Perimeter End Rail - Pinned (Right)
4	10	am-2801	AndyMark Perimeter Side Rail Section
5	16	am-2808	AndyMark Outrigger, Anodized w/ Hook
6	2	am-2809	AndyMark Perimeter Left End Upright
7	2	am-2804	AndyMark Perimeter Right End Upright
8	8	am-2806	AndyMark Perimeter Middle Upright
9	6	am-2808	AndyMark Perimeter End Station Plate Panel
10	6	am-2807	AndyMark Perimeter End Station Poly Panel
11	6	am-2811	AndyMark Perimeter Station Overhead Pipe
12	18	am-2991	AndyMark Perimeter End Anchor, Anodized w/ Hook
13	4	am-2981	AndyMark Perimeter Corner Pin
14	6	GE-26901	Drivers Station Sponsor Panel
15	12	FE-00320	Driver Station Sponsor Bracket Assy

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00   ANGULAR = ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 FIRST ROBOTICS COMPETITION		
DRAWN	OCD	12/30/2025				
DO NOT SCALE DRAWING	MATERIAL			TITLE		
BREAK ALL SHARP EDGES AND REMOVE BURRS				ANDYMARK PERIMETER ASSY		
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.	REV.	C	FE-2026-03	
	SCALE	1:50	SHEET	1 of 2		

4

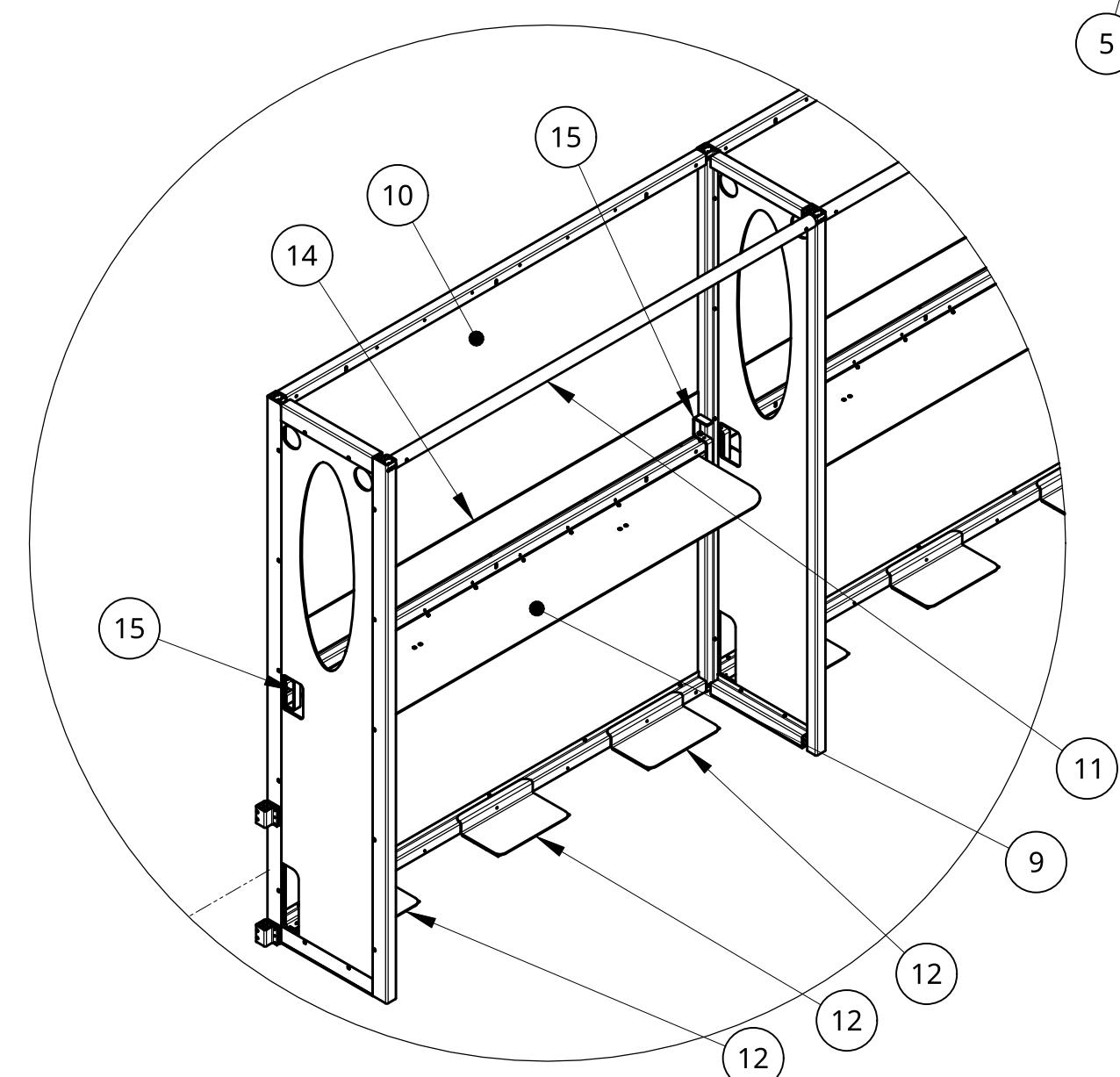
3

2

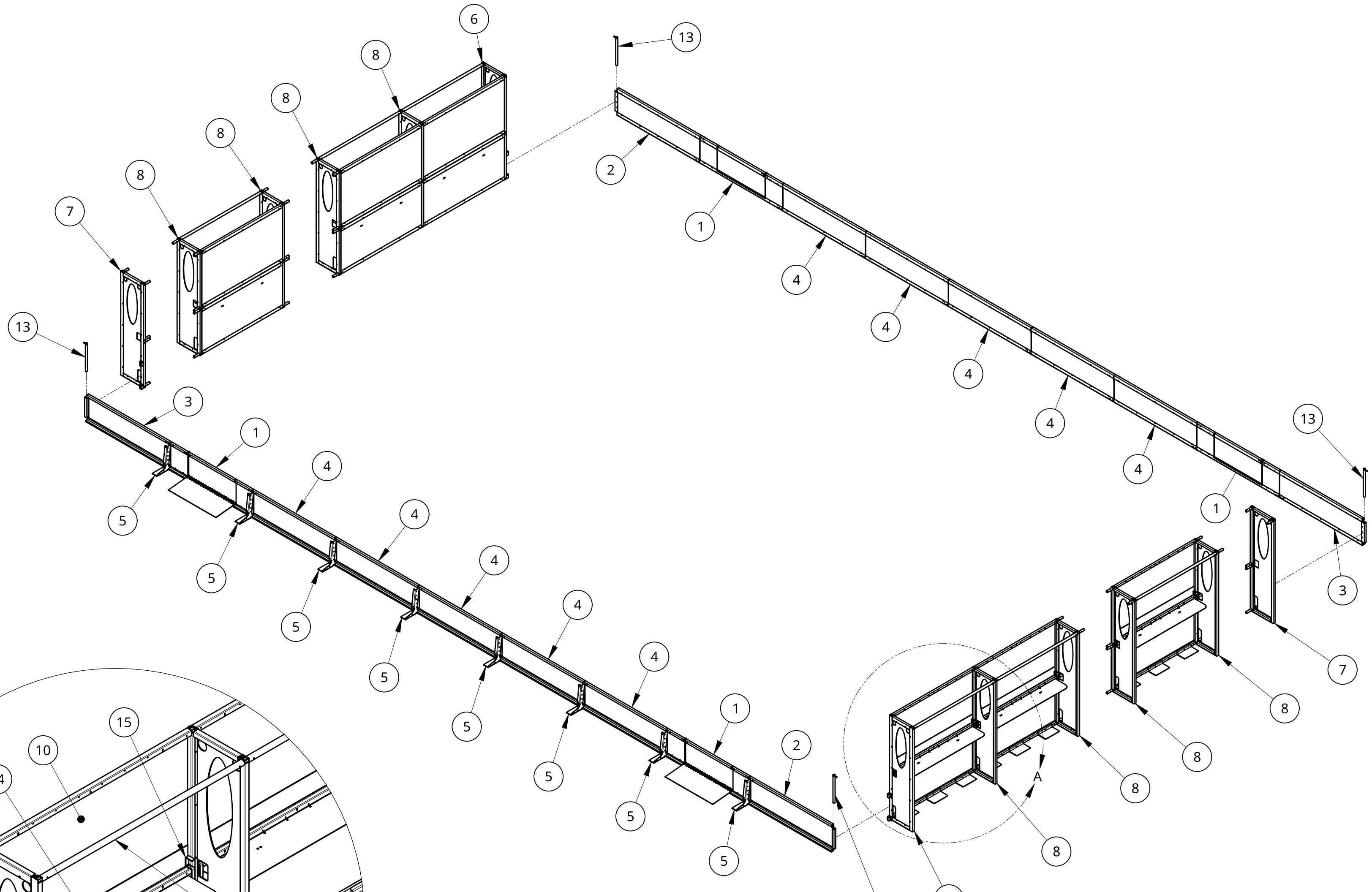
1

D

1

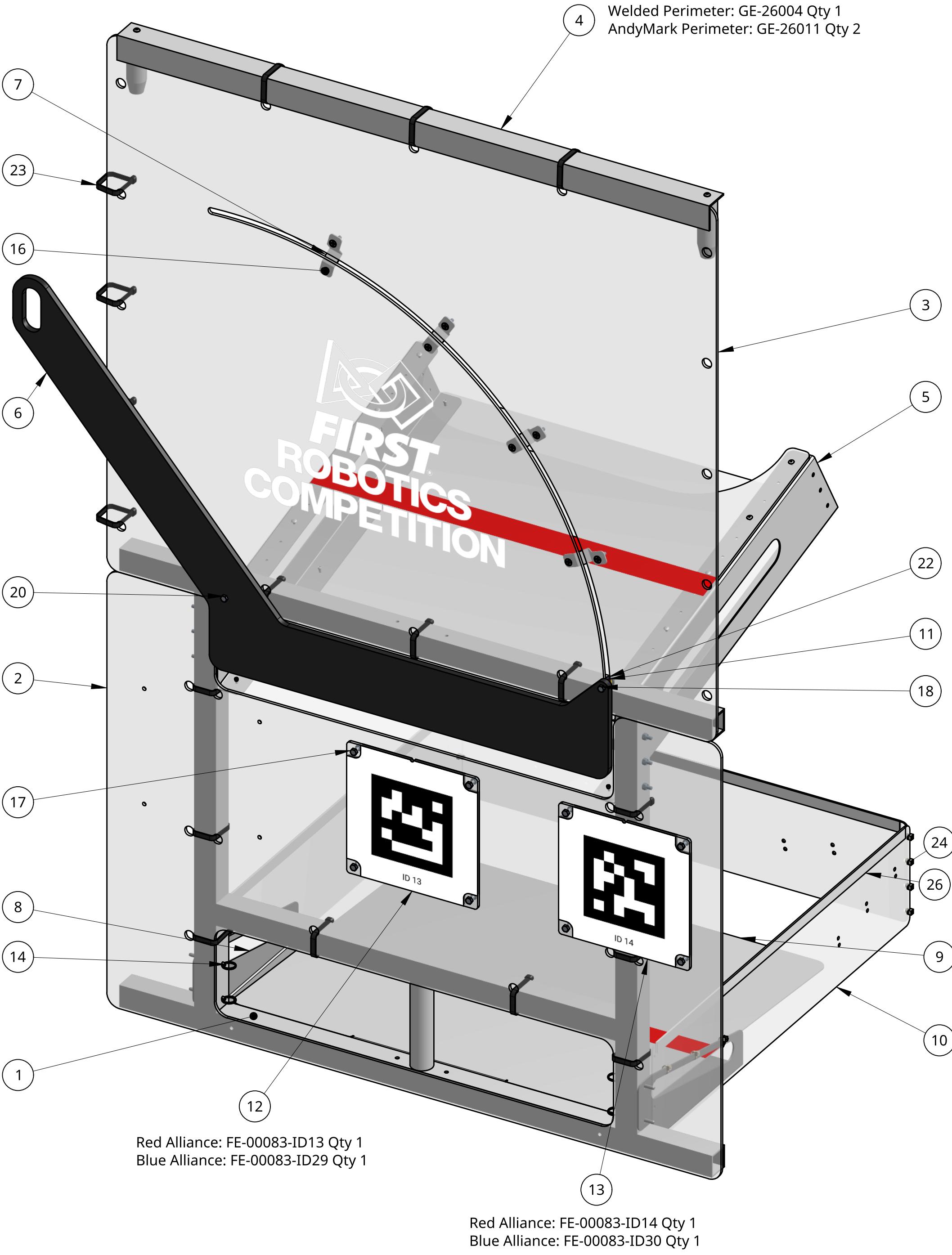


DETAIL A  
SCALE 1:20



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES  .XX = $\pm 1.00$ ANGULAR = $\pm 5^\circ$ .XXX = $\pm 0.250$	FIELD	NAME	DATE	
	DRAWN	OCD	12/30/2025	
DO NOT SCALE DRAWING	MATERIAL	TITLE		
BREAK ALL SHARP EDGES AND REMOVE BURRS		ANDYMARK PERIMETER ASSY		
<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.	SIZE	DWG NO.	FE-2026-03	REV.
	SCALE	1:50	SHEET	2 of 2

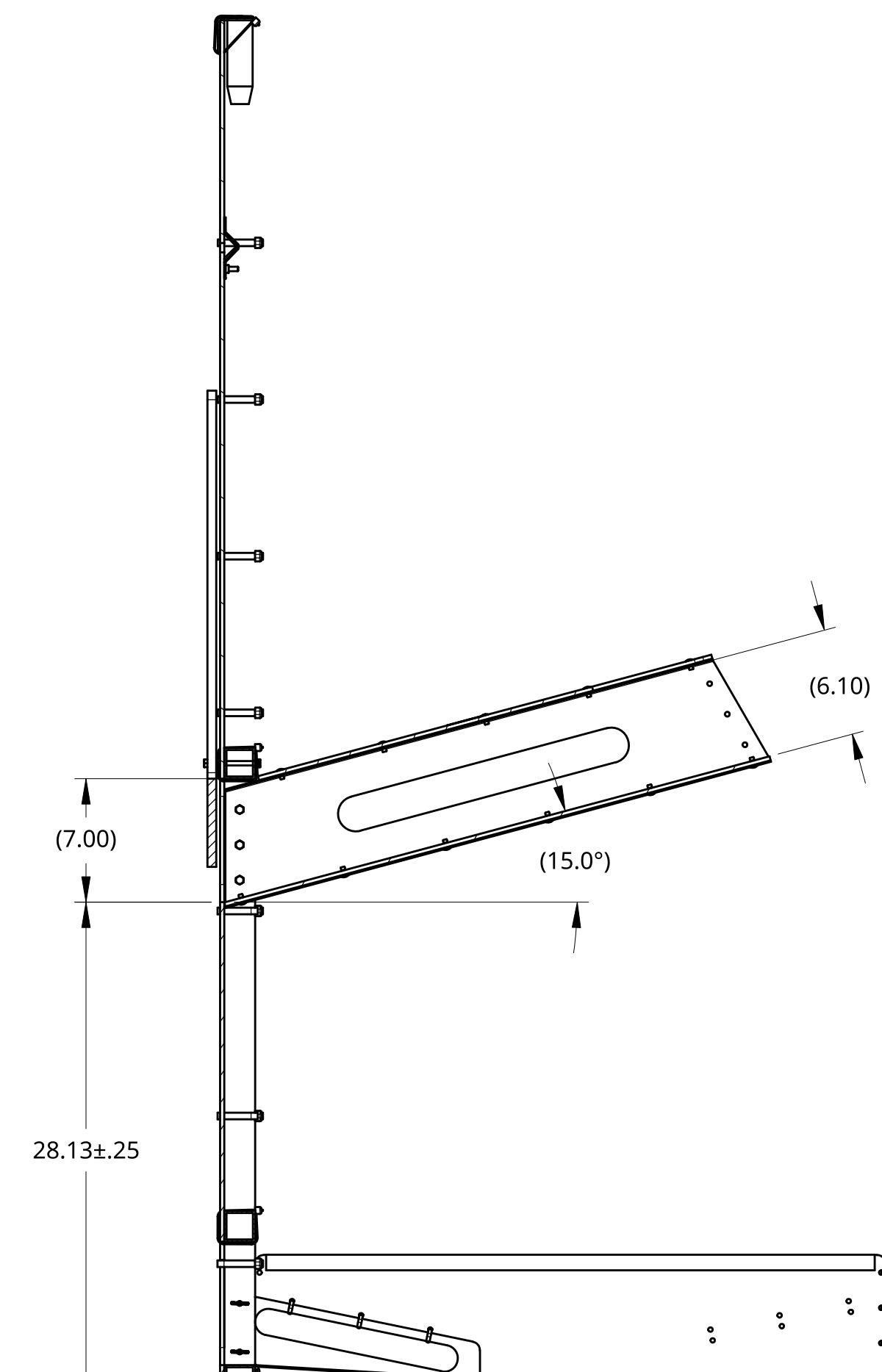
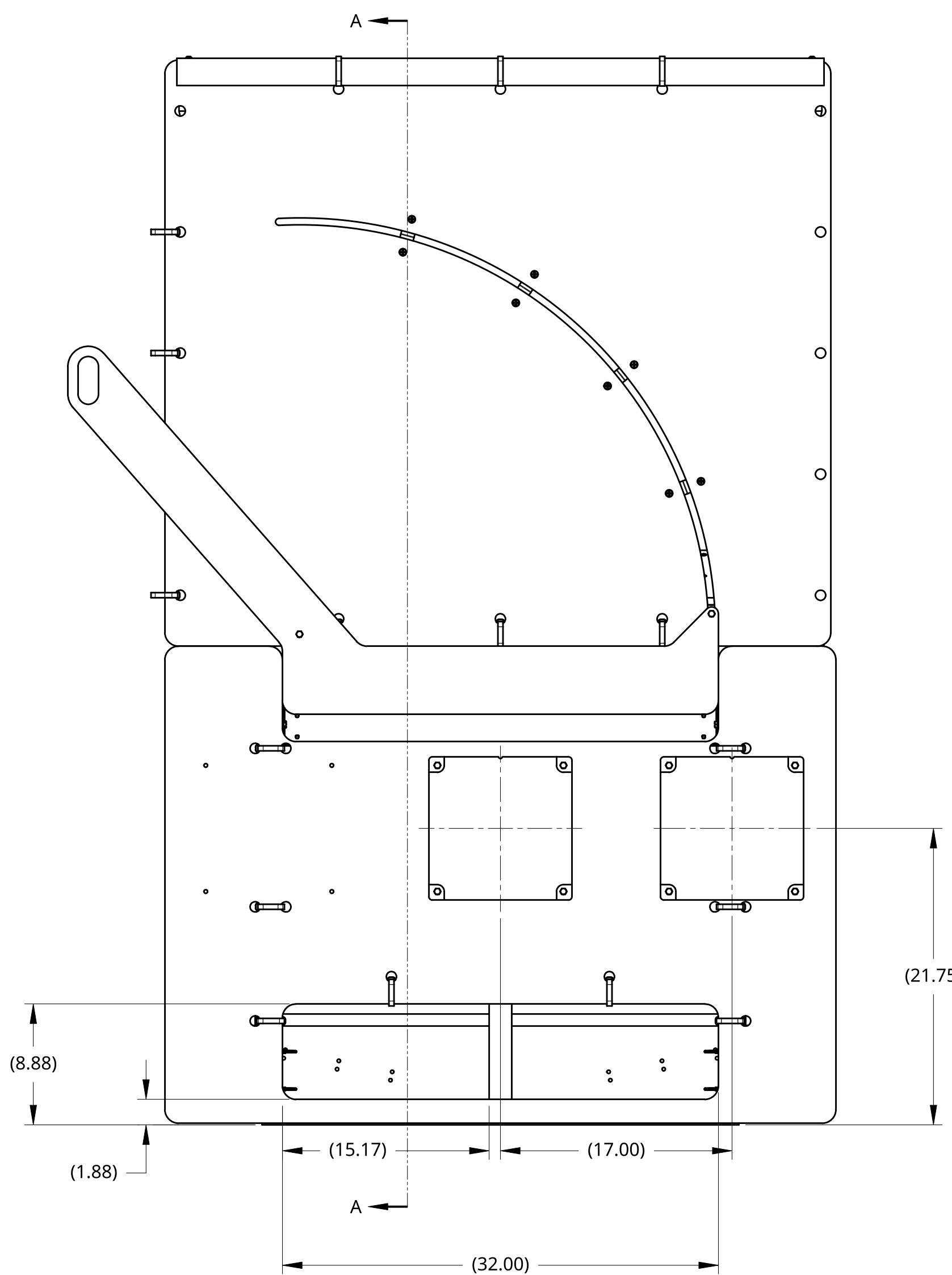


Item	Quantity	Part number	Description
1	1	GE-26001	Outpost Frame Weldment
2	1	GE-26002	Outpost Lower Panel
3	1	GE-26003	Outpost Upper Panel Assy
4	1	GE-26004	Outpost Bri-Weld Top Rail Assy
5	1	GE-26005	Outpost Chute Assy
6	1	GE-26006	Outpost Chute Door
7	4	GE-26007	Outpost Slot Support Assy
8	1	GE-26008	Outpost Floor Support Assy
9	1	GE-26009	Outpost Exchange Ramp
10	3	GE-26010	Outpost Exchange Border
11	1	GE-26012	Outpost Slot Spacer
12	1	FE-00083-ID13	AprilTag, ID 13
13	1	FE-00083-ID14	AprilTag, ID 14
14	4	1/4" Quick Release Pin	2.313in Usable Length
15	1	8492A078	Press-Fit Drill Bushing with Head
16	8		Flat countersunk head (82) machine screw 1/4-20 x 1 Steel Zinc Plated
17	8		Hex bolt 1/4-20 x 1 Steel Zinc Plated
18	1		Hex bolt 1/4-20 x 1.5 Steel Zinc Plated
19	6		Hex bolt 1/4-20 x 2.5 Steel Zinc Plated
20	1		Hex bolt 1/4-20 x 3 Steel Zinc Plated
21	16		Hex lock nut with nylon insert 1/4-20 Steel Zinc Plated
22	1		Type A flat washer 1/4 Wide Steel Zinc Plated
23	18		Cable Tie, 120lb, Black
24	14		Cable Tie, 50lb, White
25	1		Gaffer Tape, Red, 2in Wide
26	1		Gaffer Tape, White, 2in Wide

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	MATERIAL	TITLE
	DRAWN	AV	08/07/2025		
DO NOT SCALE DRAWING		BREAK ALL SHARP EDGES AND REMOVE BURRS		FIRST ROBOTICS COMPETITION	
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.				OUTPOST	
SIZE	DWG NO.			REV.	
C	GE-26000				
SCALE	1:6			SHEET 1 of 2	

D

D



SECTION A - A

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD	NAME	DATE
DRAWN	AV	08/07/2025

MATERIAL	TITLE
	OUTPOST



GE-26000

REV.

SIZE C DWG NO.

SCALE 1:8

SHEET 2 of 2

4

3

2

1

D

D

C

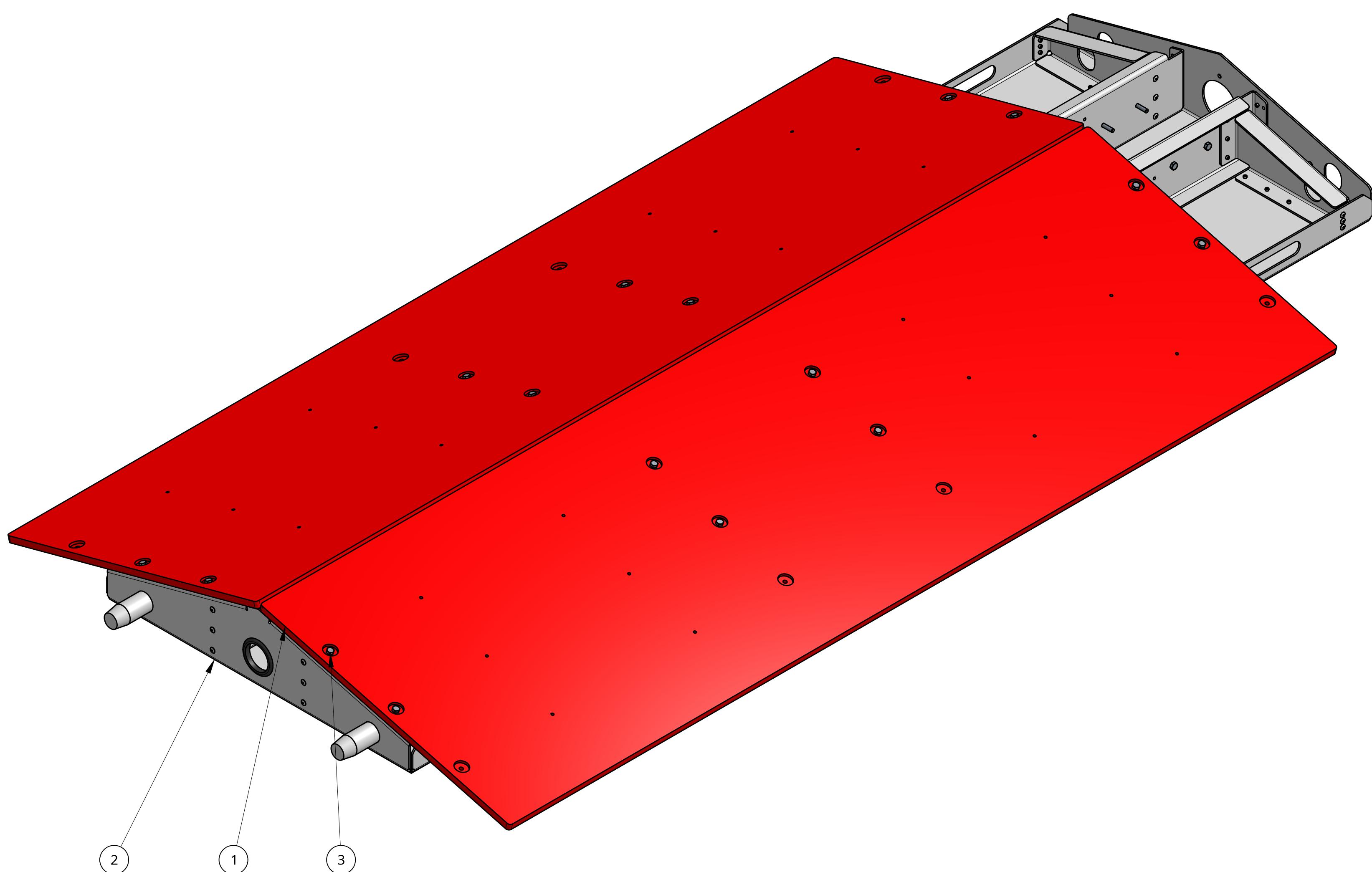
C

B

B

A

A



Item	Quantity	Part number	Description
1	2	GE-26101	Bump Plastic
2	2	GE-26102	Bump Base Assy
3	22		Hex bolt 1/4-20 x 1 Steel Zinc Plated

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR = ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD  
DRAWN  
CO

DATE  
12/10/2025

MATERIAL

TITLE



BUMP

SIZE C	DWG NO.	GE-26100	REV.
SCALE 1:5	1 of 2		SHEET

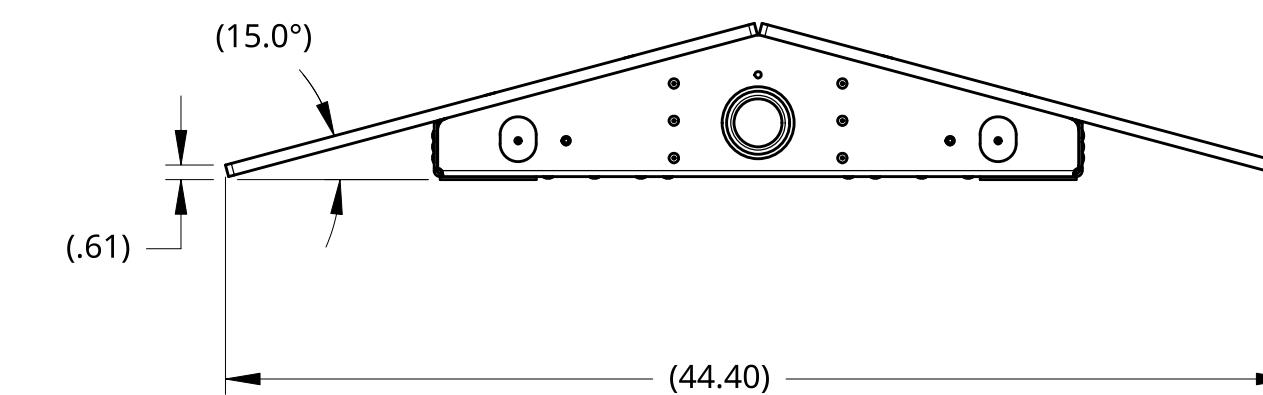
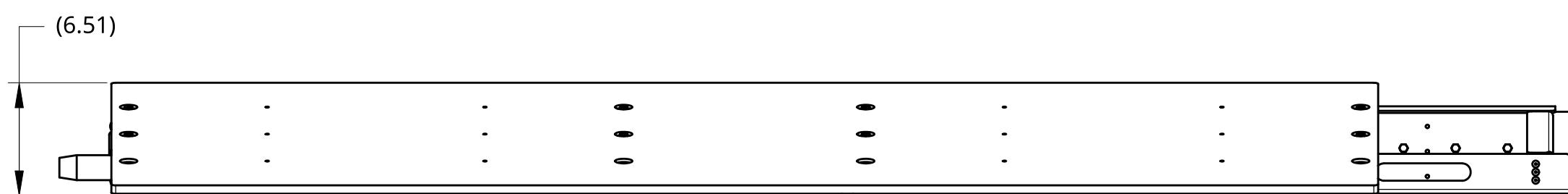
4

3

2

1

D



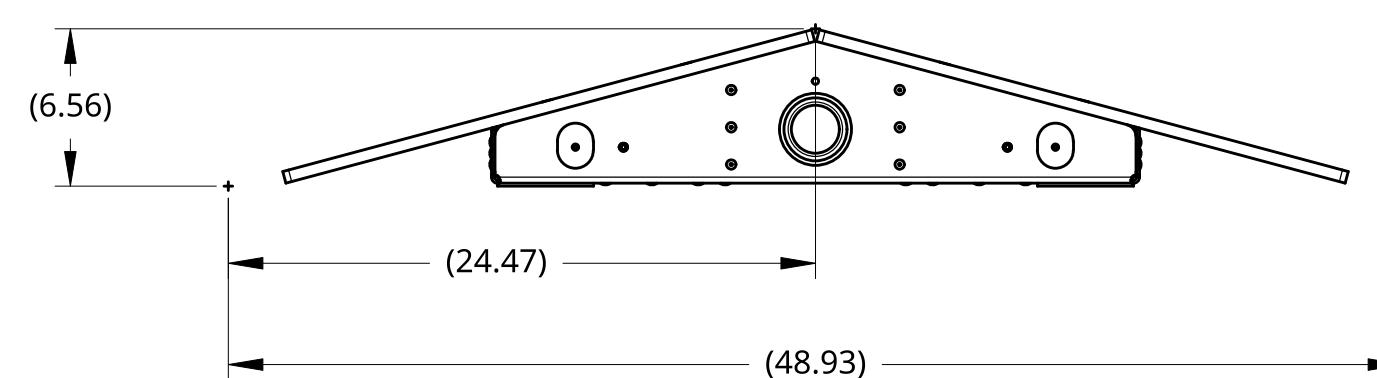
C

C

B

B

Dimensions to virtual sharps -  
bounding triangle profile geometry.



A

A

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

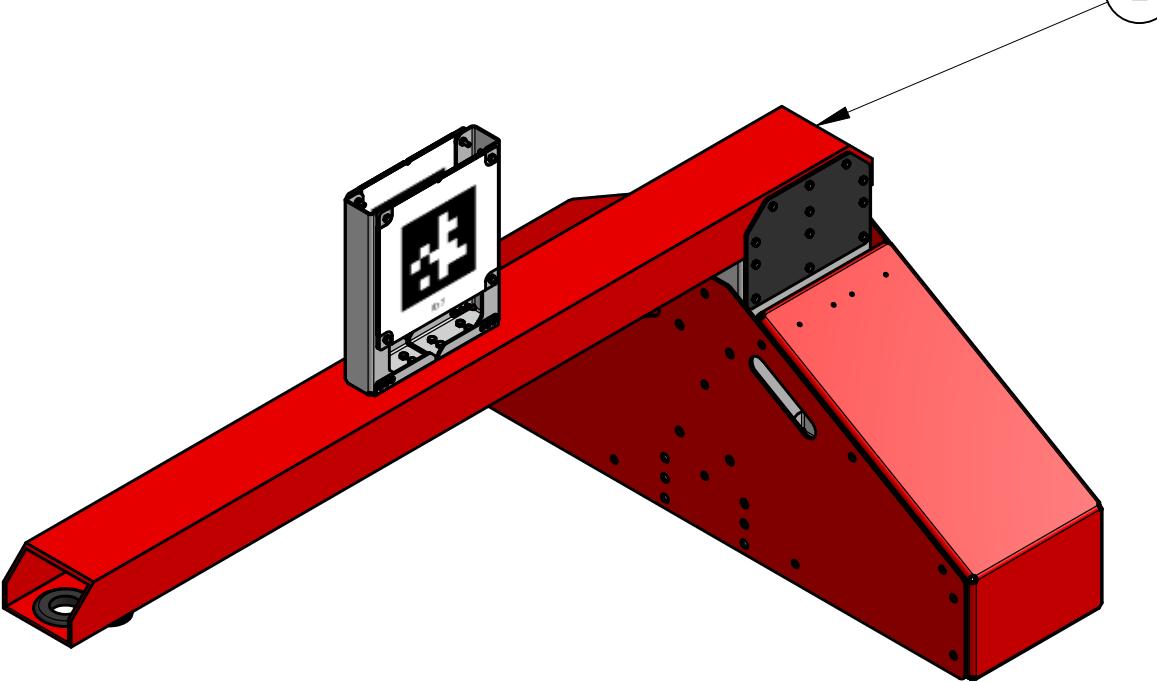
FIELD	NAME	DATE
DRAWN	CO	12/10/2025

MATERIAL



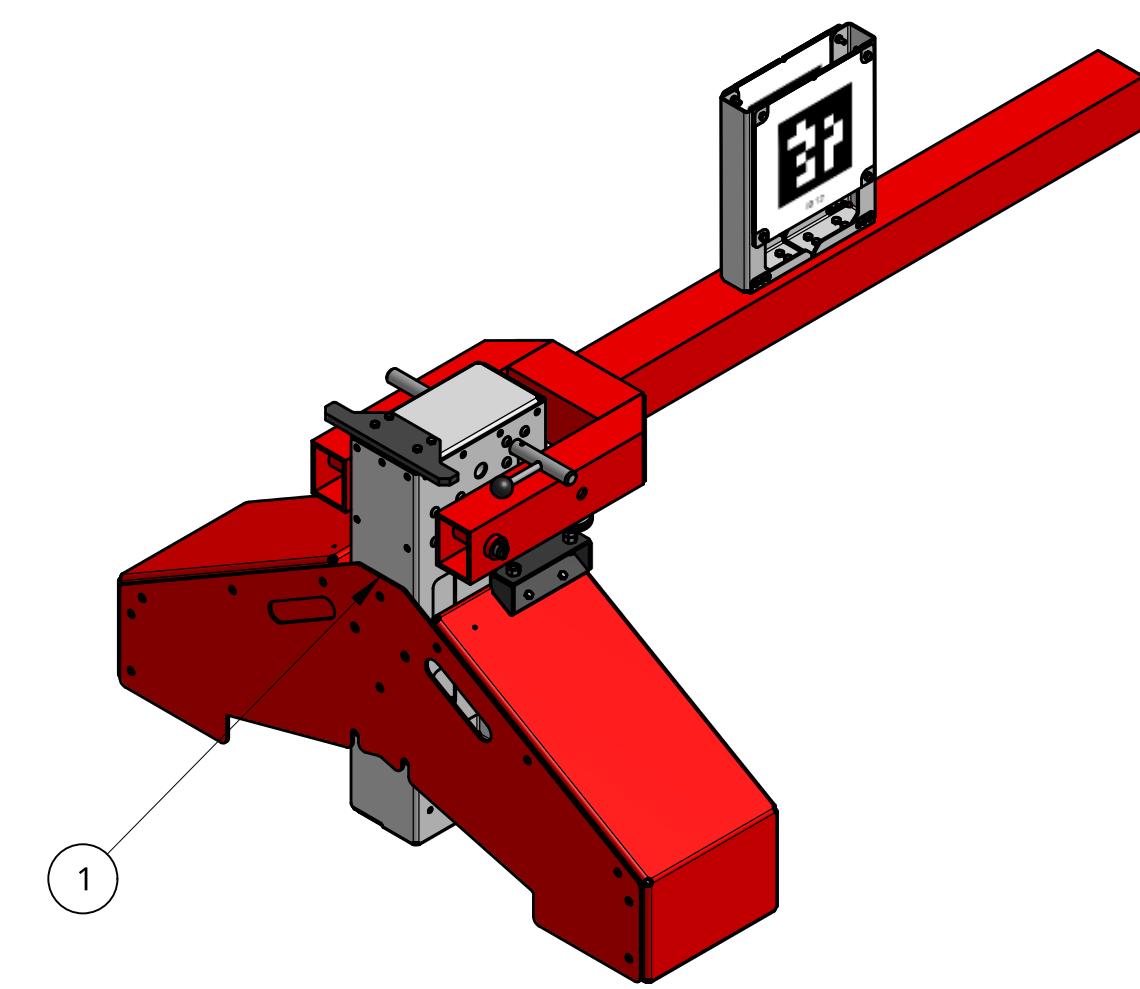
BUMP

SIZE	DWG NO.	REV.
C	GE-26100	
SCALE	1:8	SHEET 2 of 2



2

NOTES:  
1. See drawings FE-2026, GE-2601, and GE-2602 for assembly dimensions.

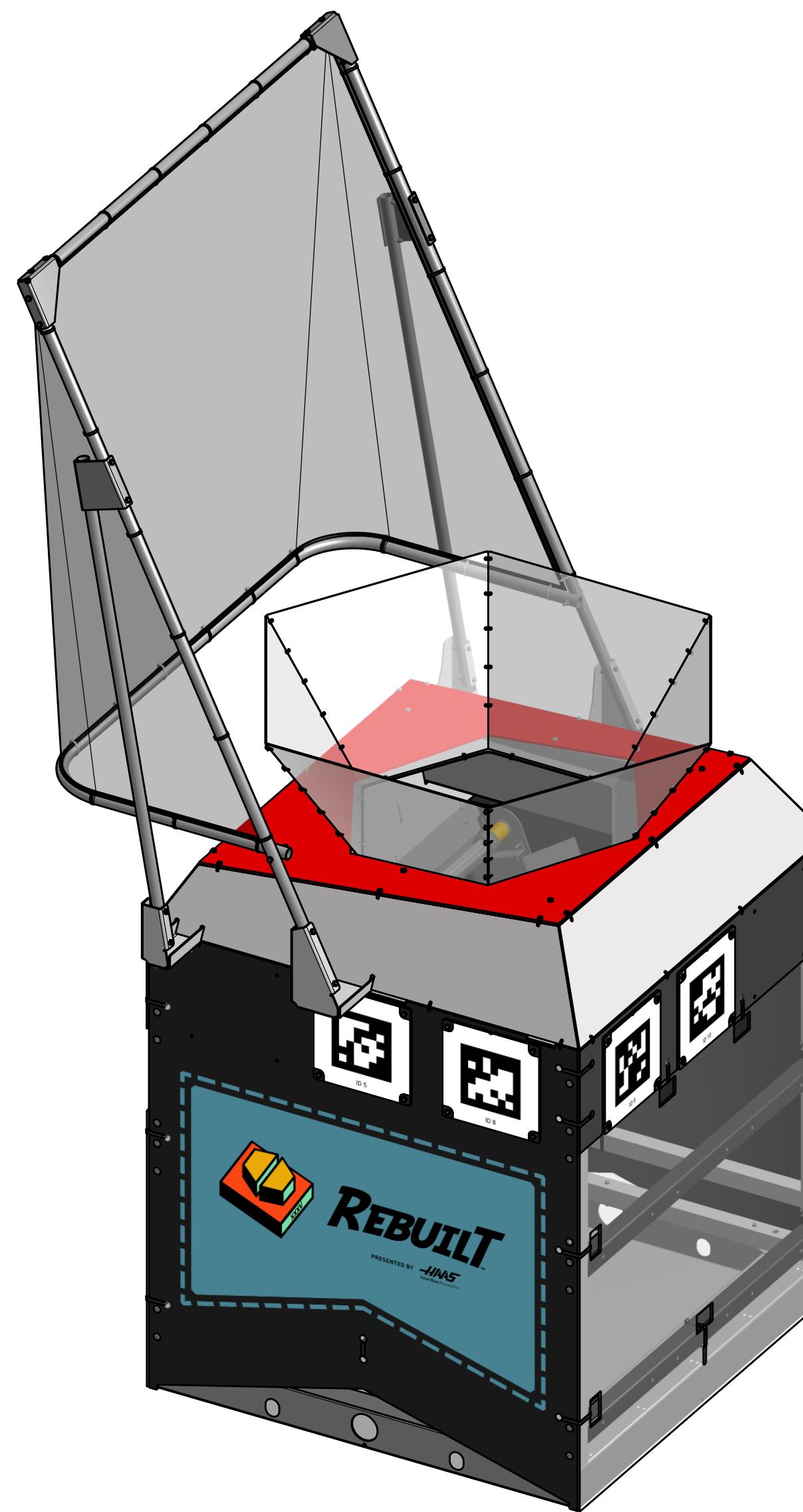


1

Item	Quantity	Name		Part number	Description
1	1	GE-26201: Trench Hinged Assy		GE-26201	Trench Hinged Assy
2	1	GE-26202: Trench Fixed Assy		GE-26202	Trench Fixed Assy

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 <b>FIRST ROBOTICS COMPETITION</b>
DRAWN	CO	12/11/2025		
DO NOT SCALE DRAWING	MATERIAL		TITLE <b>TRENCH</b>	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.	REV.	
	C	GE-26200		
SCALE	1:12		SHEET	1 of 1

Item	Quantity	Part number	Description
1	46		Hex bolt 1/4-20 x 2.5 Stainless Steel
2	70		Hex bolt 1/4-20 x 1 Stainless Steel
3	62		Hex lock nut with nylon insert 1/4-20 Stainless Steel
4	24		Hex bolt 1/4-20 x 1.75 Stainless Steel
5	10		Hex bolt 1/4-20 x 3 x 0.75 Stainless Steel
6	1	FE-00083-ID10	AprilTag, ID 10
7	1	FE-00083-ID11	AprilTag, ID 11
8	1	FE-00083-ID2	AprilTag, ID 2
9	1	FE-00083-ID3	AprilTag, ID 3
10	1	FE-00083-ID4	AprilTag, ID 4
11	1	FE-00083-ID5	AprilTag, ID 5
12	1	FE-00083-ID8	AprilTag, ID 8
13	1	FE-00083-ID9	AprilTag, ID 9
14	1	GE-26301	Hub Base Assembly
15	6	GE-26302	Hub Brace Assembly
16	1	GE-26303	Hub Roof Riser, Right Assembly
17	1	GE-26304	Hub Roof Panel
18	1	GE-26306	Hub Rear Panel, Bottom
19	2	GE-26308	Hub Front Panel, Top
20	1	GE-26309	Hub Front Diffuser
21	1	GE-26310	Hub Rear Diffuser
22	2	GE-26311	Hub Side Diffuser
23	5	GE-26312	Hub Crossbar Assembly
24	1	GE-26313	Hub Roof Riser, Left Assembly
25	4	GE-26314	Hub Light Mount
26	1	GE-26315	Hub Funnel Base Assembly
27	2	GE-26316	Hub Ramp Angle Assembly
28	2	GE-26317	Hub Side Frame - Weldment
29	1	GE-26318	Hub Net (Aesthetic)
30	1	GE-26319	Hub Net Pole Holder 1, Right Assembly
31	1	GE-26320	Hub Net Pole Holder 2, Right Assembly
32	1	GE-26322	Hub Net Pole Holder 1, Left Assembly
33	1	GE-26323	Hub Net Pole Holder 2, Left Assembly
34	2	GE-26324	Hub Net Pole, Long
35	2	GE-26325	Hub Net Pole, Short
36	1	GE-26326	Hub Net Pole, Top
37	2	GE-26327	Hub Side Panel Plastic and Vinyl
38	1	GE-26328	Hub Front Panel, Bottom
39	6	GE-26329	Hub Funnel Side
40	1	GE-26330	Hub Net Pole, Bottom
41	2	GE-26331	Hub Internal Wall
42	1	GE-26332	Hub Ramp, Small
43	1	GE-26333	Hub Ramp, Large
44	2	GE-26334	Hub Pole Connector Bracket
45	2	GE-26335	Hub Pole Corner Brace
46	1	GE-26400	Fuel Counter
47	4		Light Assembly
48	22		Cable Tie, 120lb, Black
49	108		Cable Tie, 50lb, White



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR = ± 5° .XXX = ±0.250	FIELD	NAME	DATE	 FIRST ROBOTICS COMPETITION
	DRAWN	DF	10/26/2025	
DO NOT SCALE DRAWING	MATERIAL		TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS			HUB	
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 C DWG NO. GE-26300 REV.	
SCALE 1:12	SHEET 1 of 4			

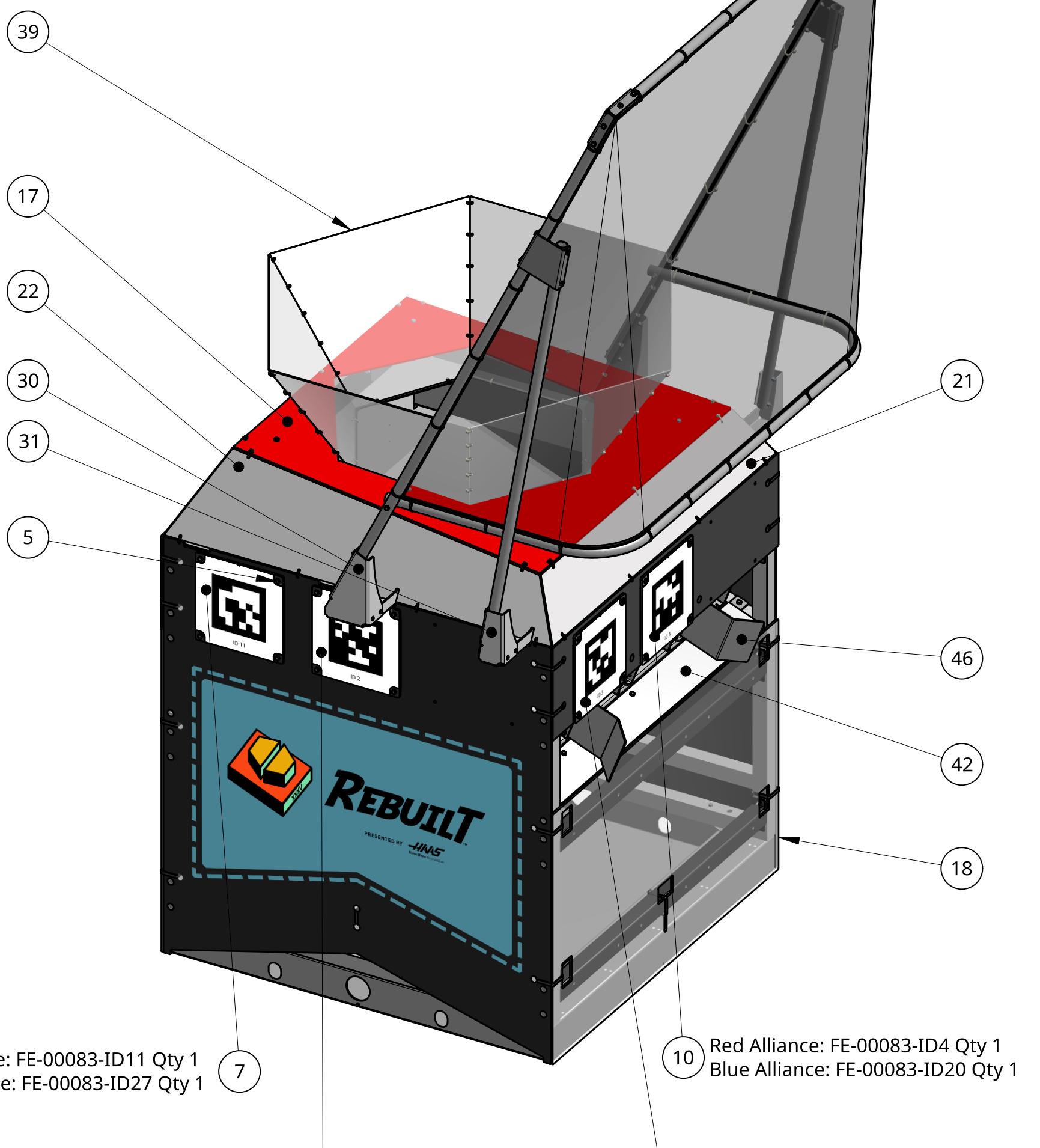
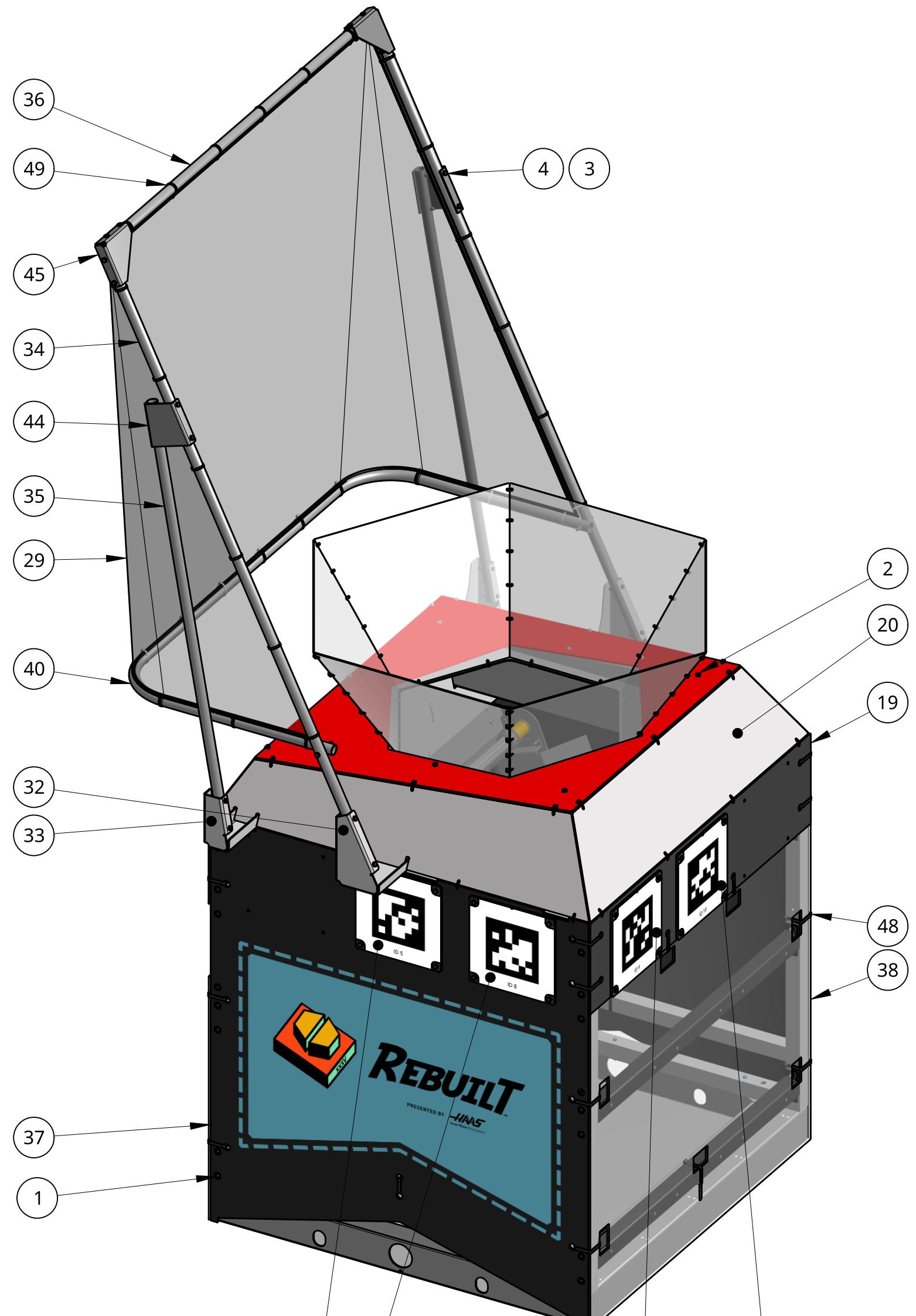
4

3

2

1

D



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	FIRST ROBOTICS COMPETITION
	DRAWN	DF	10/26/2025	
DO NOT SCALE DRAWING		MATERIAL		TITLE HUB
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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 <b>C</b>	DWG NO. GE-26300	REV.	
SCALE 1:12	SHEET 2 of 4			

4

3

2

1

D

C

B

A

4

3

2

1

D

D

C

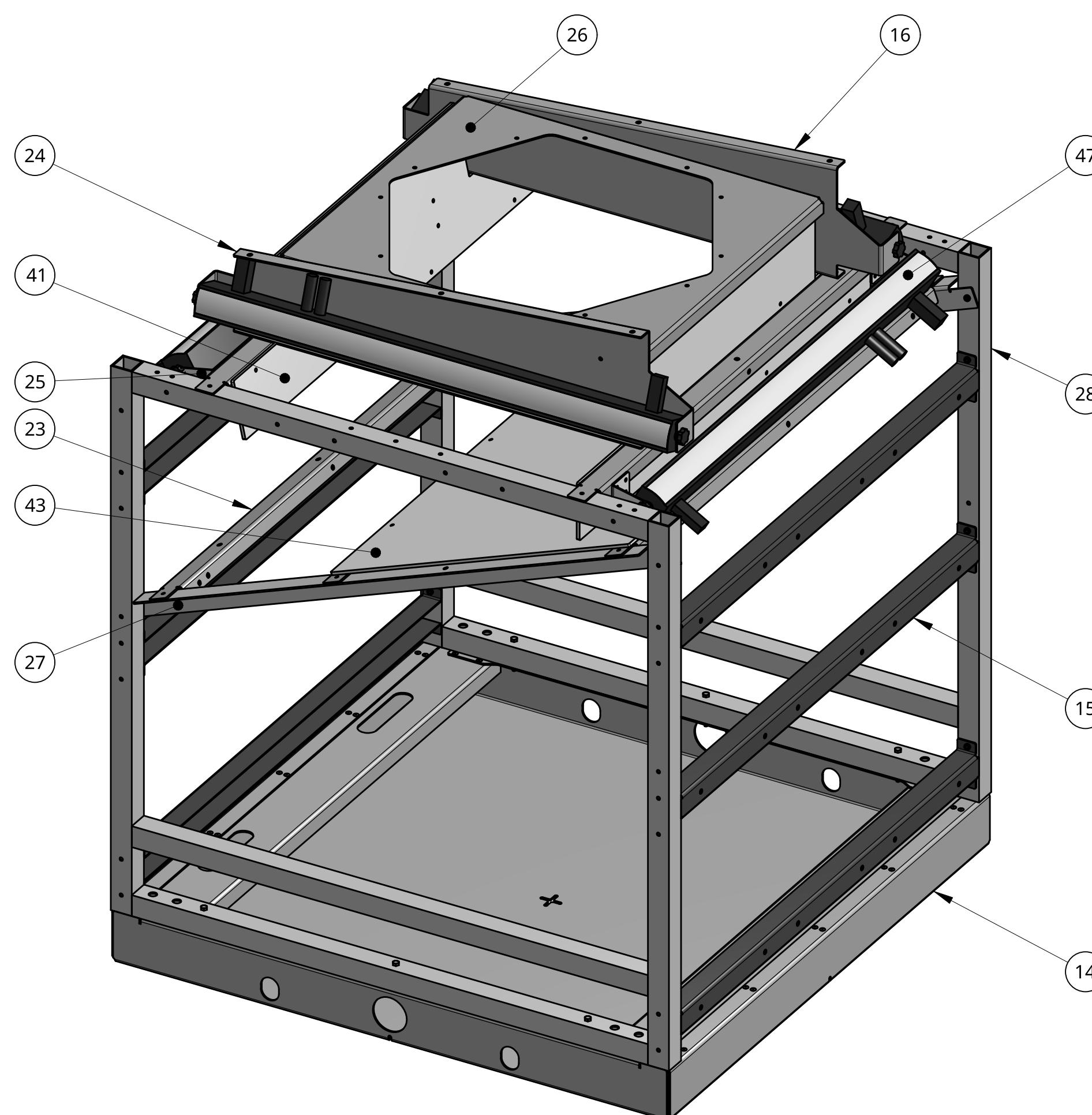
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX =  $\pm 1.00$  ANGULAR  $\pm 5^\circ$   
.XXX =  $\pm 0.250$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD	NAME	DATE
DRAWN	DF	10/26/2025

MATERIAL	TITLE
	HUB



REV.

SIZE C DWG NO.  
GE-26300

SCALE

1:8

SHEET  
3 of 4

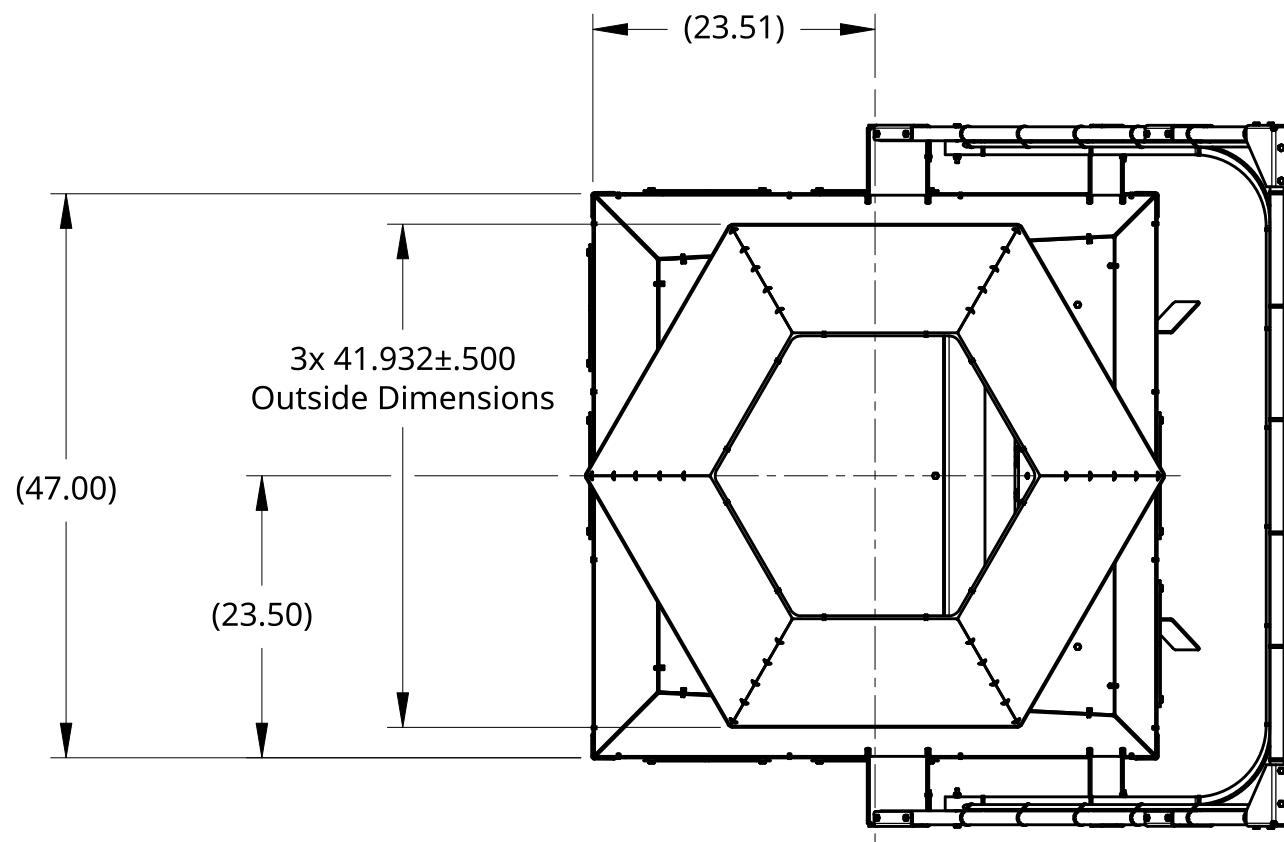
4

3

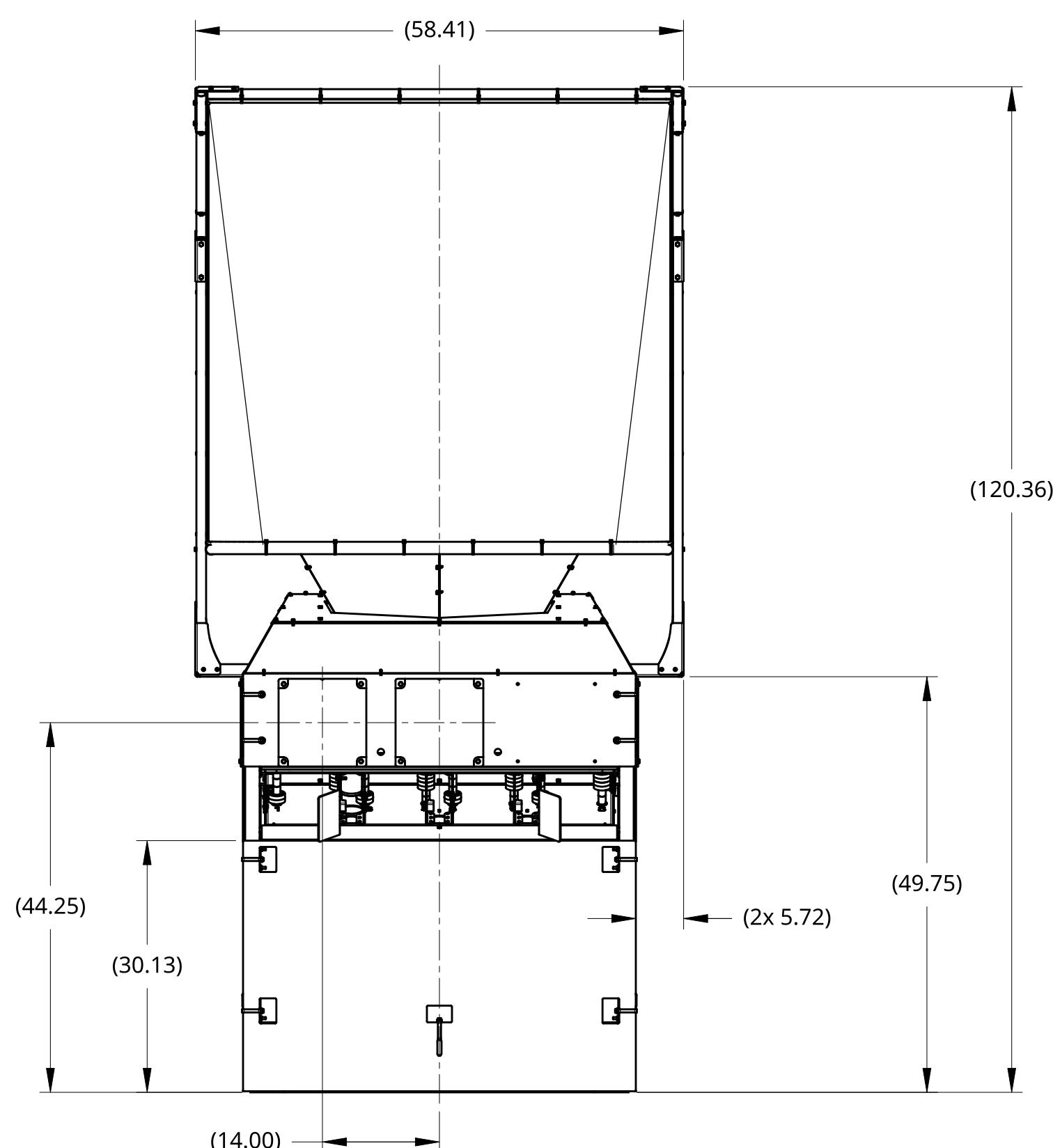
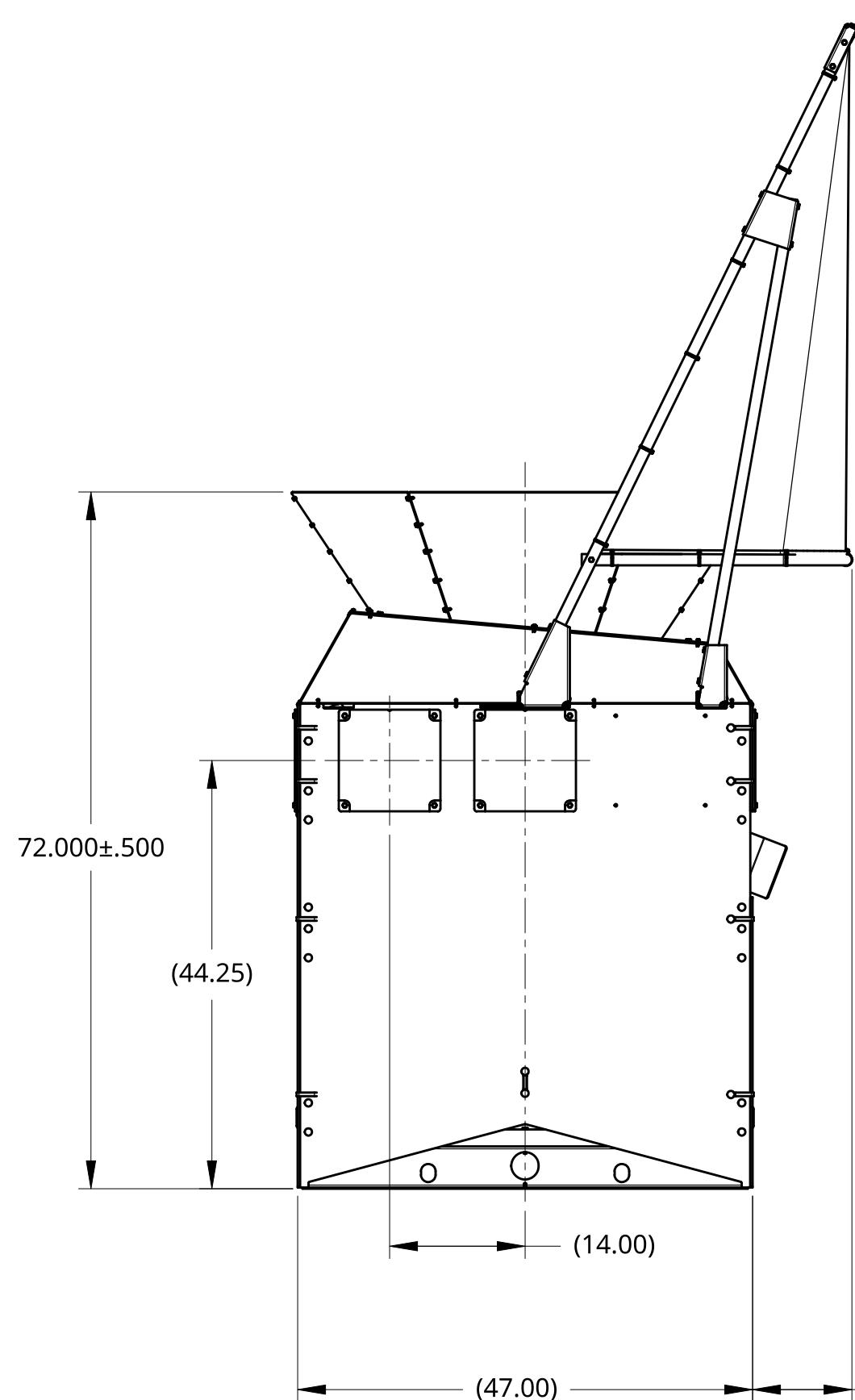
2

1

D

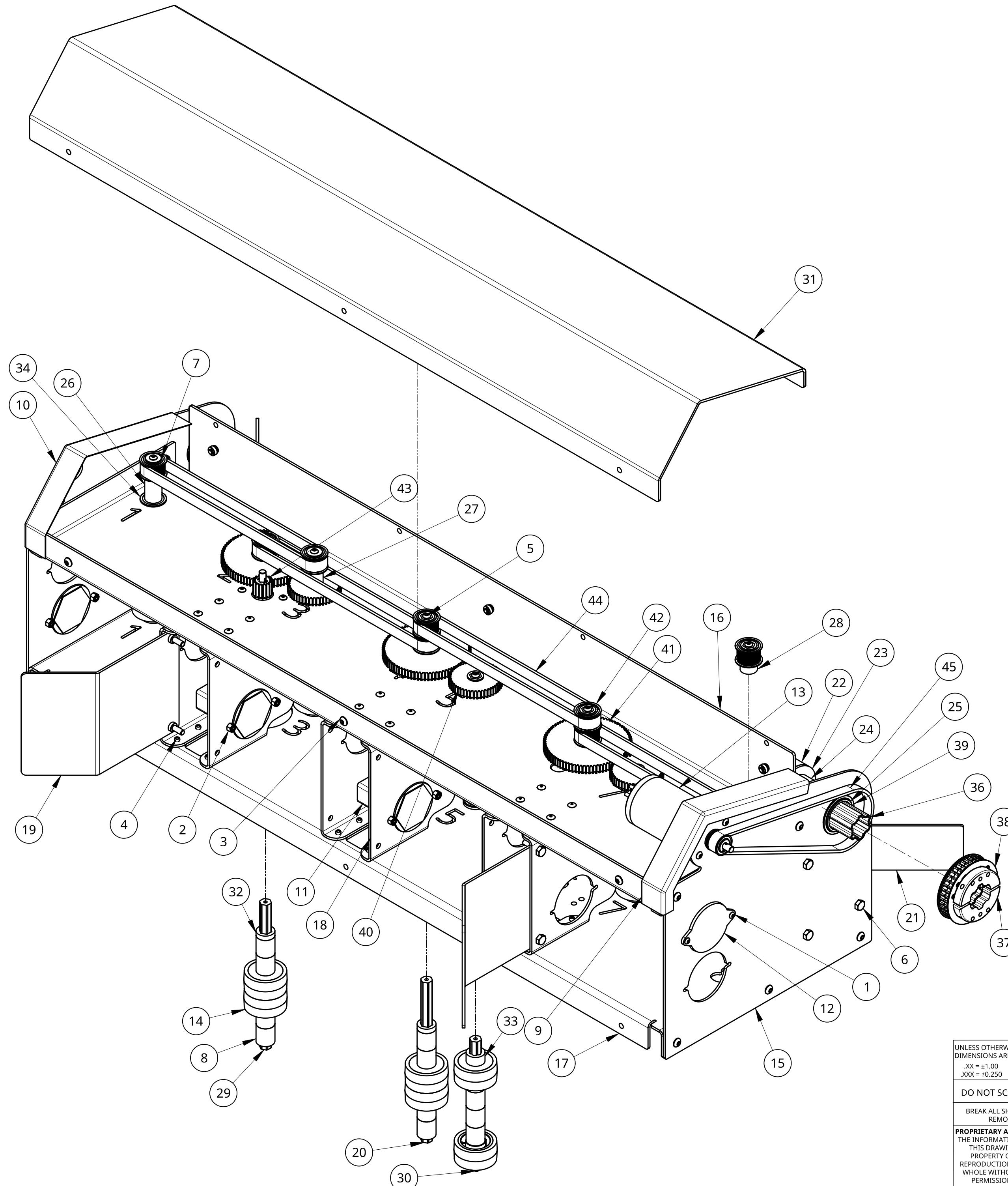


C



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250		FIELD	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	DF	10/26/2025	TITLE HUB		
DO NOT SCALE DRAWING		MATERIAL			SIZE C DWG NO. GE-26300 REV.
SCALE	1:16	SHEET	4 of 4		

D



Item	Quantity	Part number	Description
1	8		Socket button head cap screw #8-32 x 0.5 Stainless Steel
2	8		Hex lock nut with nylon insert #8-32 Stainless Steel
3	16		Socket button head cap screw 1/4-20 x 0.5 Carbon Steel Black Oxide
4	36		3/16in Rivet, 0.126-0.250in Grip Length
5	24		Socket button head cap screw #10-32 x 0.5 Carbon Steel Black Oxide
6	12		Hex bolt 1/4-20 x 1 Stainless Steel
7	16	#10 Fender Washer	#10 Fender Washer
8	28	1" Hex Spacer	1" Hex Spacer
9	1	2" Gaff Tape	Edge Tape
10	1	2" Gaff Tape	Edge Tape Mirrored
11	4	42EF-P2KBB-F4	Counting Sensor
12	4	92-90	Sensor Reflector
13	2	am-0255	CIM Motor
14	16	am-3155	2in 500Hex Stealth Wheel REV2
15	2	GE-26401	Counter Side Plate
16	1	GE-26402	Top Plate w/ PEMs
17	1	GE-26403	Bottom Plate w/ PEMs
18	6	GE-26404	Counter Middle Divider
19	2	GE-26405	Ball Deflector with PEMs
20	4	GE-26406	Long Roller Shaft
21	2	GE-26407	Inlet Funnel
22	1	GE-26408	Counter Roller Tube
23	2	GE-26409	Counter Tube Plug
24	2	GE-26410	Long Spline Spacer
25	2	GE-26411	Short Spline Spacer
26	1	GE-26412	Long Hex Spacer
27	1	GE-26413	Medium Hex Spacer
28	1	GE-26414	1/2" Hex Spacer
29	2	GE-26415	Medium Roller Shaft
30	2	GE-26416	Short Roller Shaft
31	1	GE-26417	Gearbox Cover w/ PEMs
32	8	HEX Spacer 0.25 in	HEX Spacer 0.25 in
33	8	HEX Spacer 0.5 in	HEX Spacer 0.5 in
34	16	REV-21-1916	Flanged Bearing for 1/2in Rounded Hex
35	1	REV-21-2200	12T 5mm HTD Pulley
36	1	REV-21-2520	MAXSpline Shaft - 47in Long
37	2	REV-21-2581	MAXSpline Shaft Collar
38	1	REV-25-2248	RT25 Pulley - MAXSpline - 40T - Modular
39	2	REV-29-3295	MAXSpline Bearing
40	3	WCP-0188	48t Aluminum Spur Gear (20 DP, 1/2" Hex Bore)
41	3	WCP-0728	80t Aluminum Spur Gear (20 DP, 1/2" Hex Bore)
42	8	WCP-0991	18t x 15mm Wide Aluminum Pulley (HTD 5mm, 1/2" Hex Bore)
43	1	WCP-1236	16t Steel Spur Gear (20 DP, 8mm Key Bore) (WCP-1236)
44	4		125T HTD Belt
45	1		96T RT25 Belt

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±1.00 ANGULAR = ± 5°  
.XXX = ±0.250

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND REMOVE BURRS

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.

FIELD	NAME	DATE	FIRST ROBOTICS COMPETITION
DRAWN	JO	12/15/2025	
MATERIAL		TITLE	
SEE COMPONENT DRAWINGS		FUEL COUNTER	
SIZE	DWG NO.	REV.	
C	GE-26400		
SCALE	1:3.5	SHEET 1 of 1	

4

3

2

1

D

D

C

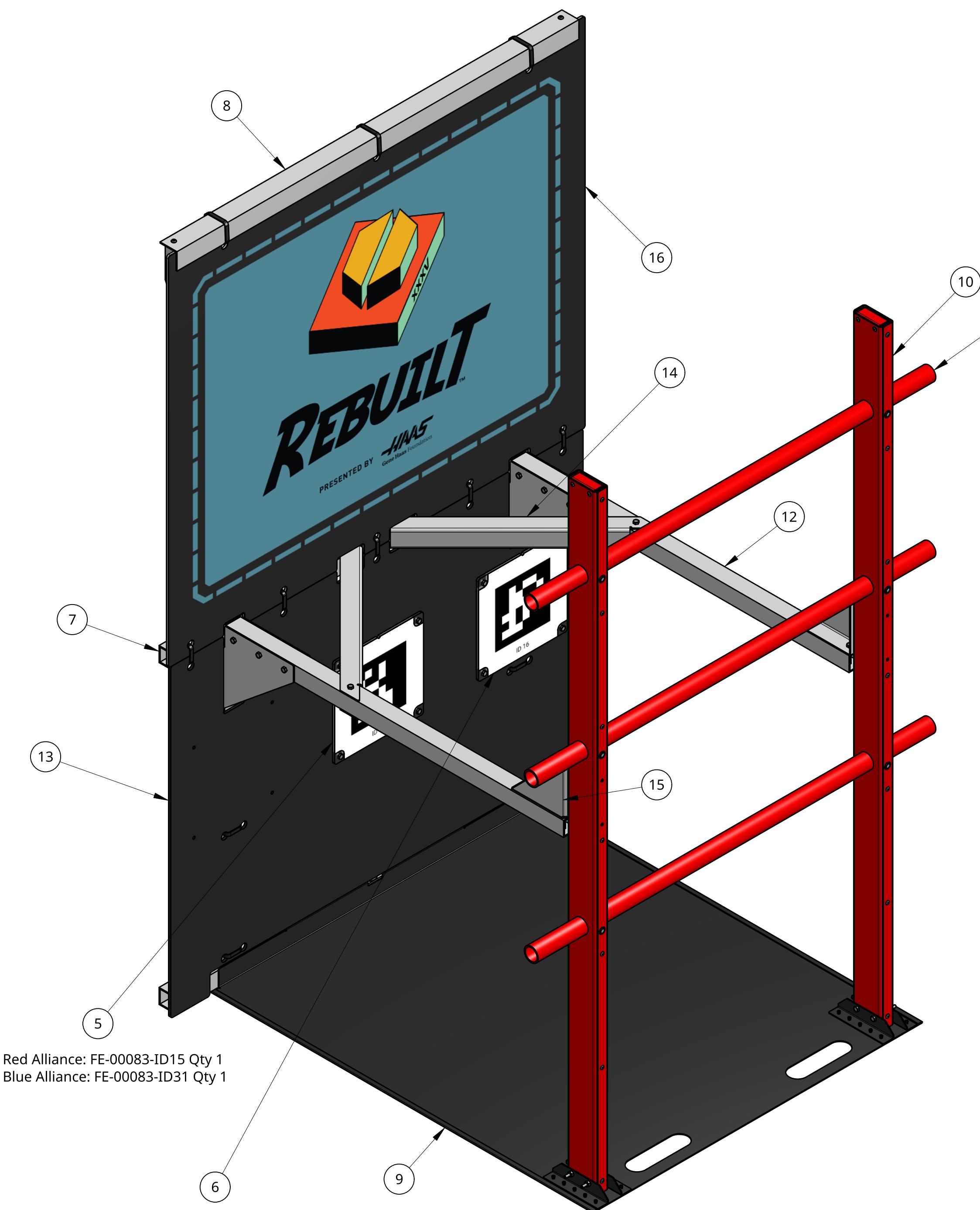
C

B

B

A

A

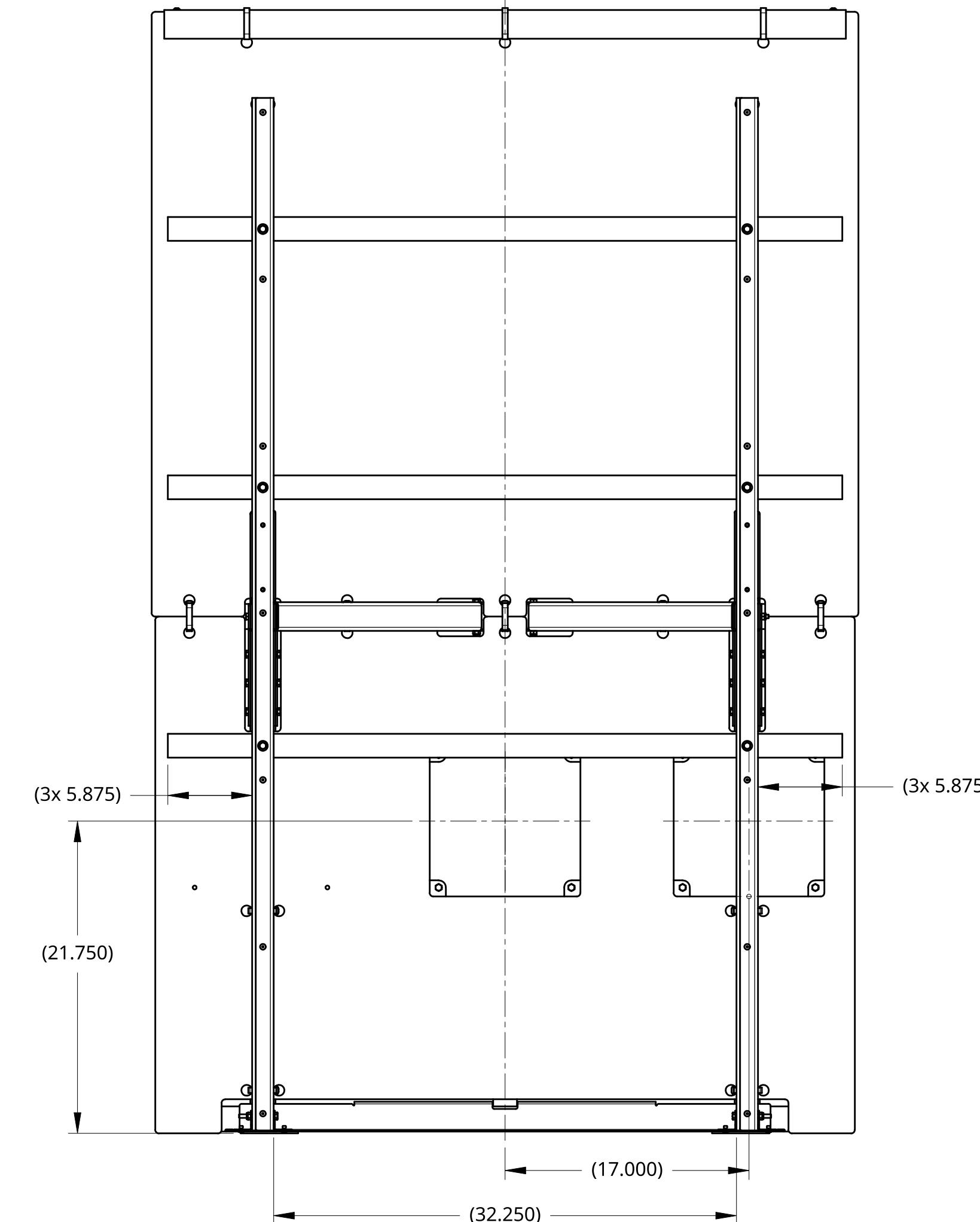
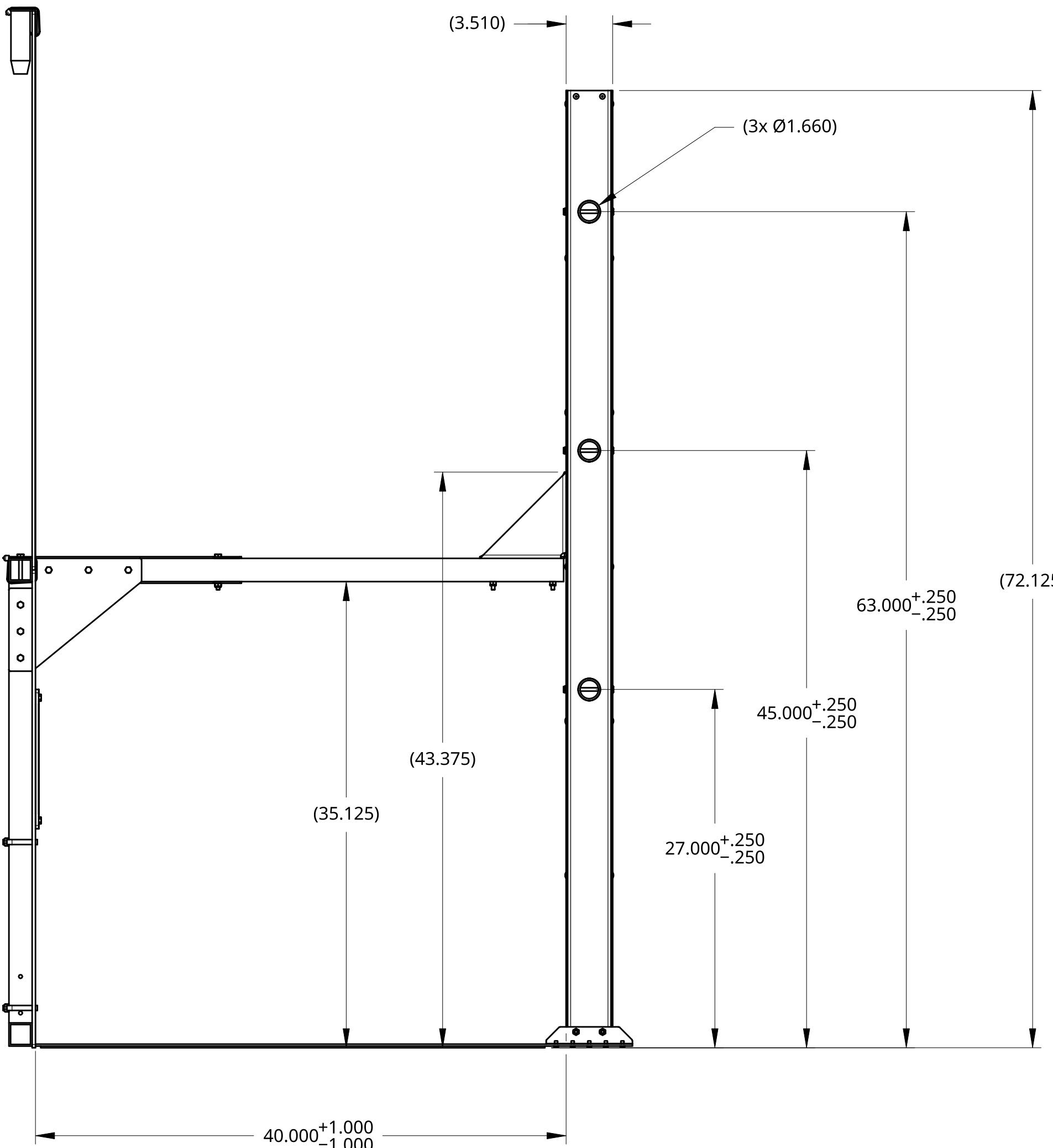


Item	Quantity	Part number	Description
1	18		Hex bolt 1/4-20 x 2.5 Stainless Steel
2	32		Hex lock nut with nylon insert 1/4-20 Stainless Steel
3	12		Hex bolt 1/4-20 x 1 Stainless Steel
4	6		Hex bolt 1/4-20 x 3.5 x 0.75 Stainless Steel
5	1	FE-00083-ID15	AprilTag, ID 15
6	1	FE-00083-ID16	AprilTag, ID 16
7	1	GE-26001	Outpost Frame Weldment
8	1	GE-26004	Outpost Bri-Weld Top Rail Assy
9	1	GE-26501	Tower Base
10	2	GE-26502	Tower Upright
11	3	GE-26503	Tower Rung
12	2	GE-26504	Tower Upright Support
13	1	GE-26505	Tower Lower Plastic
14	2	GE-26507	Tower Brace
15	2	GE-26508	Tower Upright Gusset
16	1	GE-26511	Tower Upper Plastic and Vinyl
17	12		Cable Tie, 120lb, Black

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = $\pm 1.00$ ANGULAR $\pm 5^\circ$ .XXX = $\pm 0.250$	FIELD	NAME	DATE	 FIRST ROBOTICS COMPETITION
DRAWN	DF	12/01/2025		
DO NOT SCALE DRAWING	MATERIAL			
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.				
SEE COMPONENT DRAWINGS	TITLE			
SIZE C	DWG NO.		REV.	
SCALE 1:7	1 of 2			

D

D



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX =  $\pm 1.00$  ANGULAR  $\pm 5^\circ$   
.XXX =  $\pm 0.250$

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

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.

FIELD  
DRAWN

NAME  
DF

DATE  
12/01/2025

MATERIAL

SEE COMPONENT  
DRAWINGS

TITLE

SIZE

C

DWG NO.

REV.

1:8

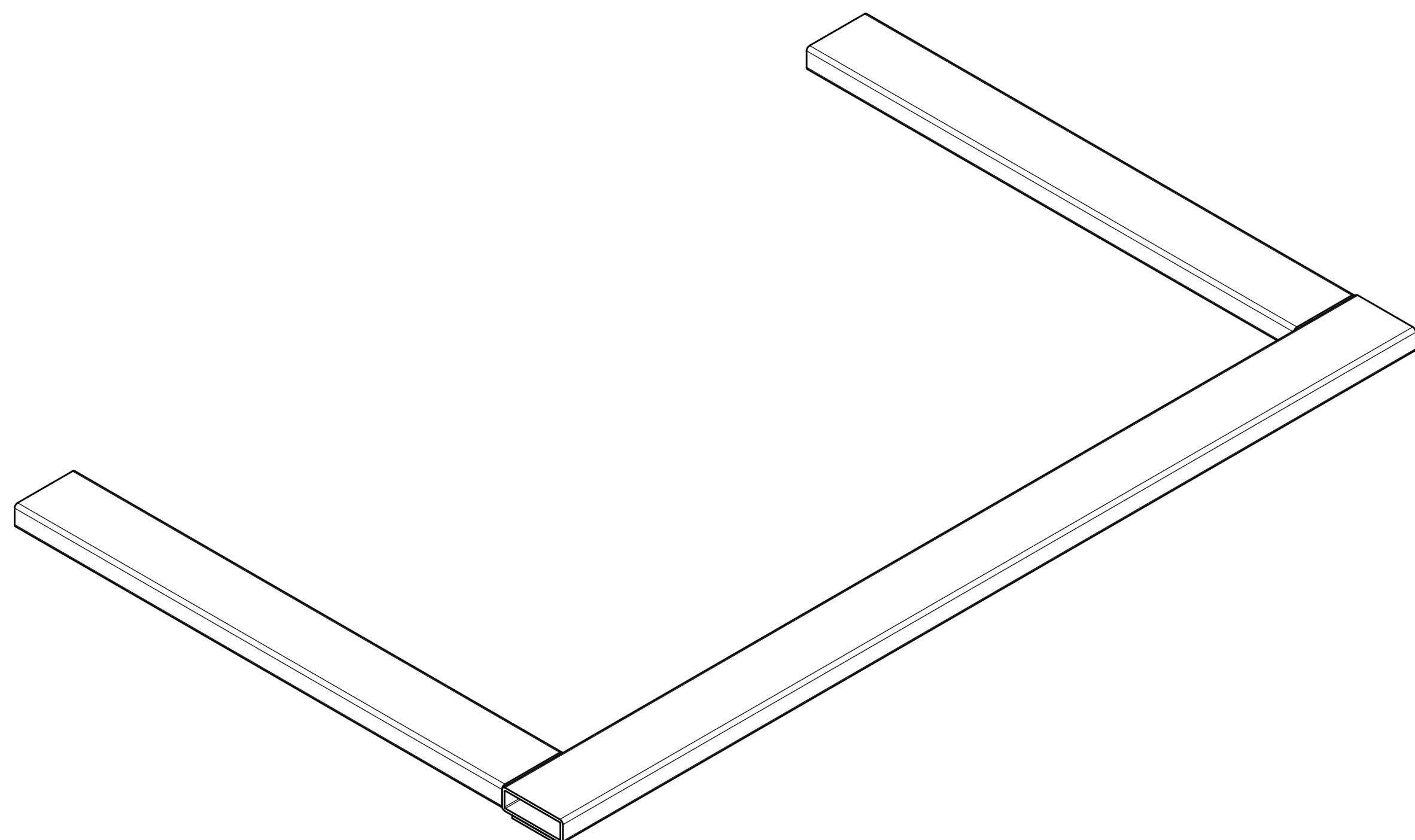
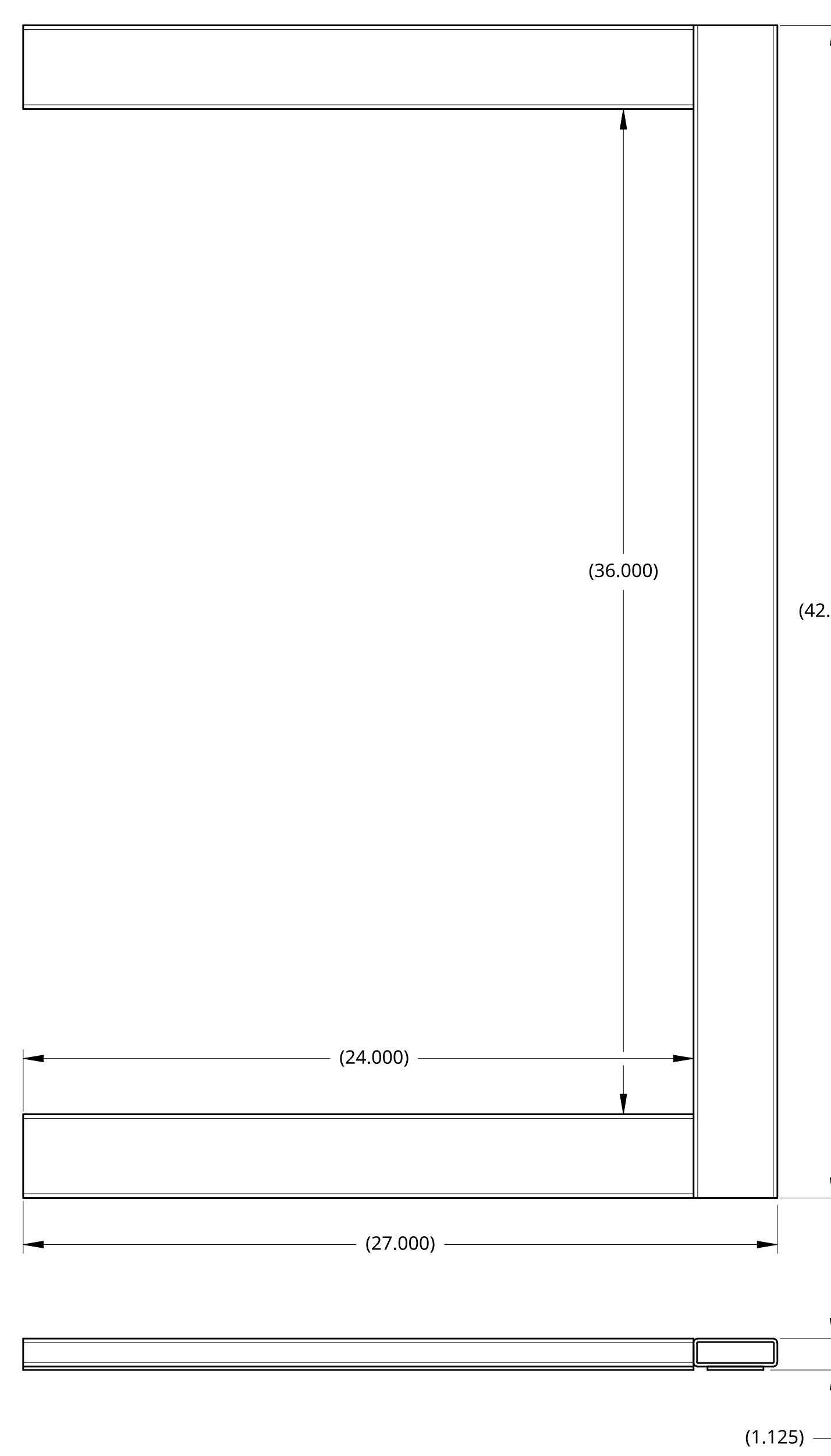
SHEET

2 of 2



TOWER

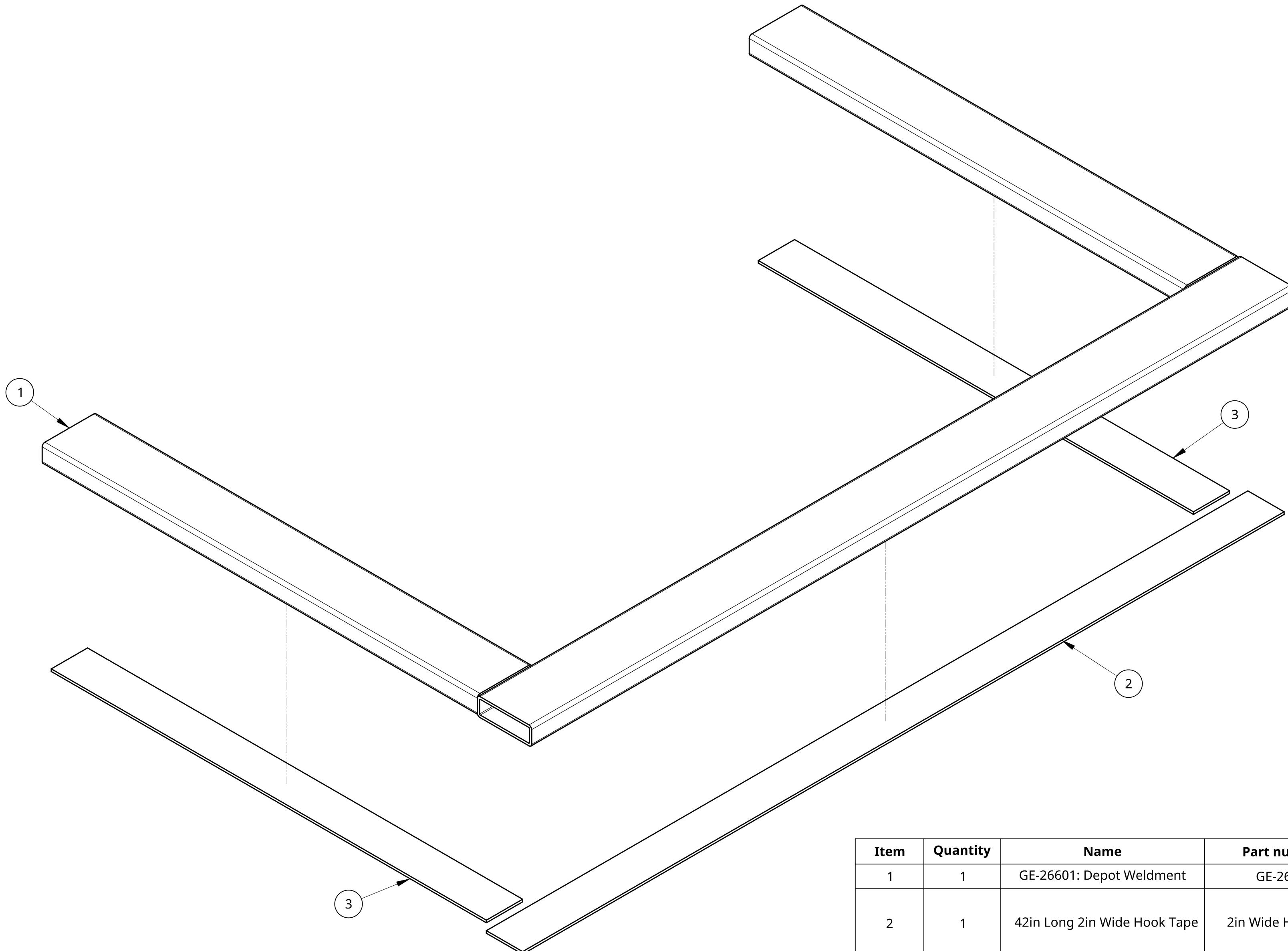
GE-26500



GE-26600-RED made from GE-26601-RED  
GE-26600-BLUE made from GE-26601-BLUE

Item	Quantity	Name	Part number	Description
1	1	GE-26601: Depot Weldment	GE-26601	Depot Weldment
2	1	42in Long 2in Wide Hook Tape	2in Wide Hook Tape	42in Long
3	2	24in Long 2in Wide Hook Tape	2in Wide Hook Tape	24in Long

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±1.00 ANGULAR ± 5° .XXX = ±0.250	FIELD	NAME	DATE	
	DRAWN	JAY O'DONNELL	07/08/2025	
DO NOT SCALE DRAWING	MATERIAL		TITLE	
BREAK ALL SHARP EDGES AND REMOVE BURRS			N/A	
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.	GE-26600	
	SCALE	REV.	1:4	
	SHEET	1 of 2		



Item	Quantity	Name	Part number	Description
1	1	GE-26601: Depot Weldment	GE-26601	Depot Weldment
2	1	42in Long 2in Wide Hook Tape	2in Wide Hook Tape	42in Long
3	2	24in Long 2in Wide Hook Tape	2in Wide Hook Tape	24in Long

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX =  $\pm 1.00$  ANGULAR  $\pm 5^\circ$   
.XXX =  $\pm 0.250$

FIELD	NAME	DATE	
DRAWN	JO	07/08/2025	

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND REMOVE BURRS

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.

MATERIAL

N/A

TITLE

DEPOT

SIZE C DWG NO.

REV.

GE-26600

SCALE 1:3 SHEET 2 of 2

4

3

2

1

D

D

C

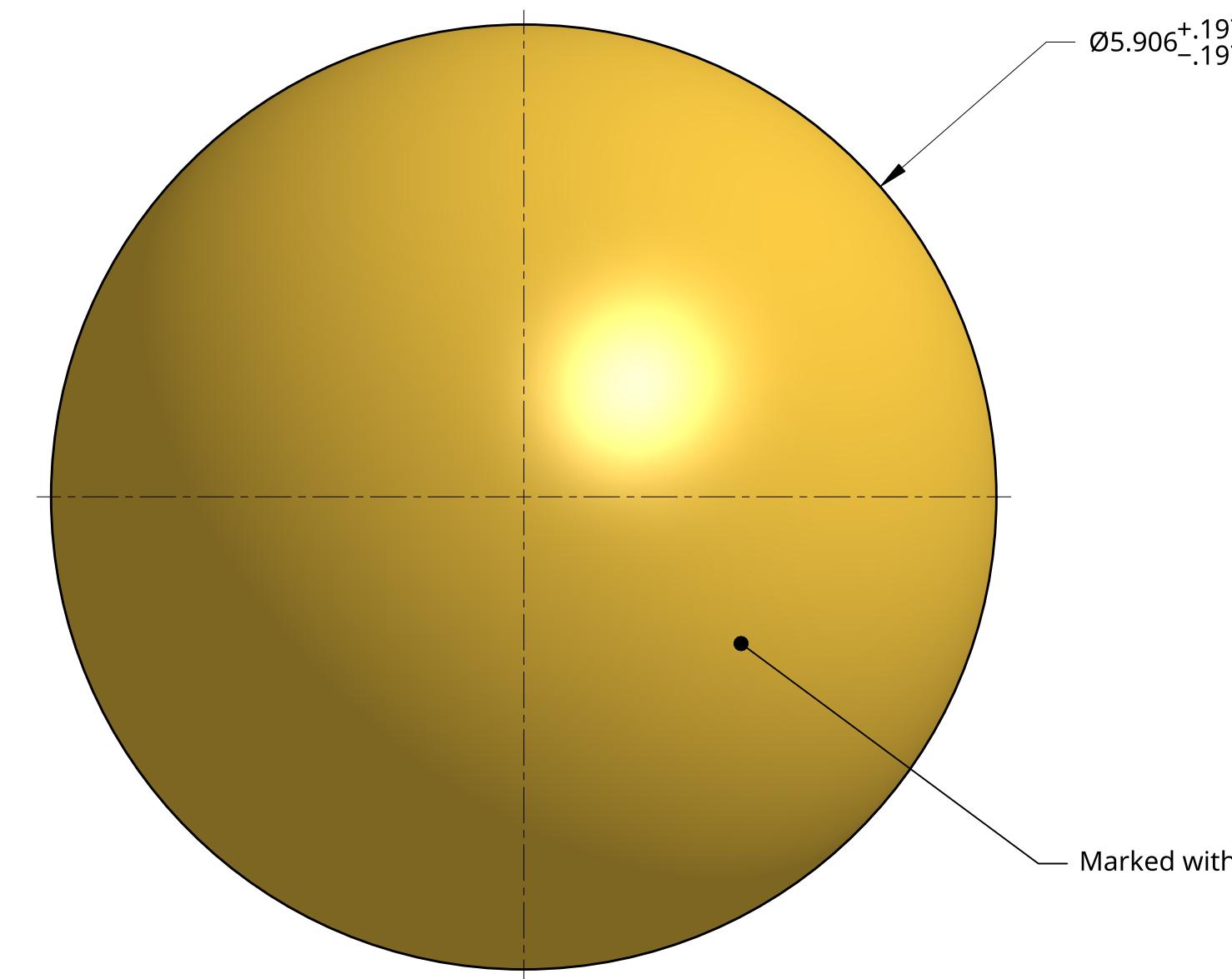
C

B

B

A

A



#### NOTES:

1. AndyMark part number is am-5801.
2. Mass is 0.448-0.500lb (0.203-0.227kg).

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.01      ANGULAR ± 1° .XXX = ±.005	VEND	NAME	DATE	
	DRAWN	OCD	12/17/2025	
DO NOT SCALE DRAWING	MATERIAL	TITLE	FUEL	
BREAK ALL SHARP EDGES AND REMOVE BURRS				
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.	DENSE POLYURETHANE FOAM WITH SMOOTH SKIN	SIZE	DWG NO.	REV.
	C	GE-26900		
SCALE	1:1	SHEET	1 of 1	

4

3

2

1