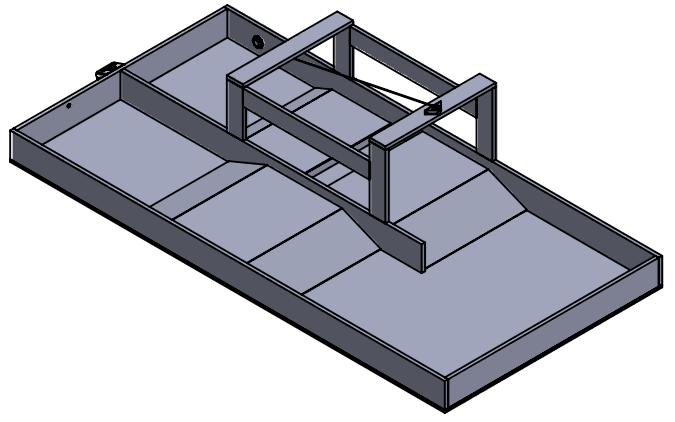
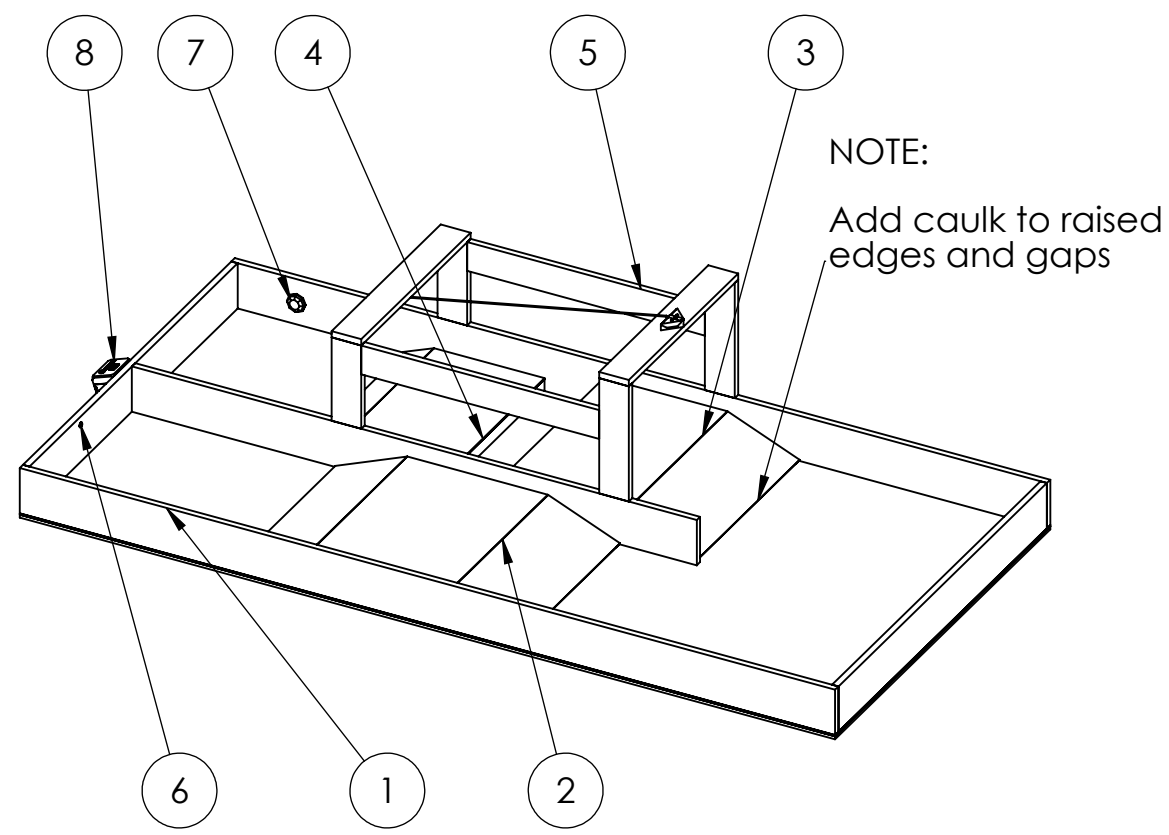
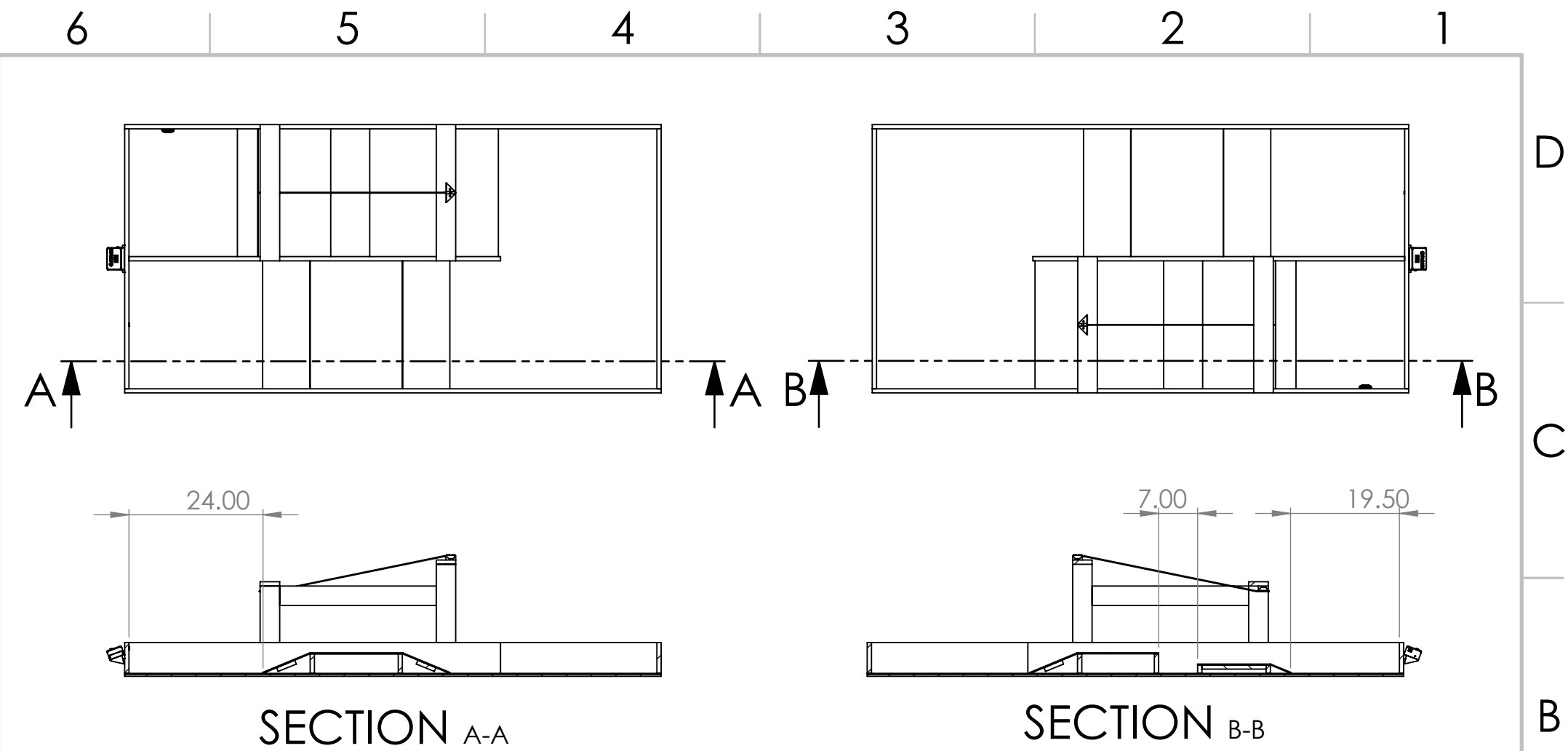


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Floor-and-Walls-Assembly	Field Area	1
2	Main-Ramp-Assembly	Main Ramp	1
3	Launch-Platform-Assembly	Ramp and platform at start of Zipline	1
4	Landing-Platform-Assembly	Ramp and platform at end of Zipline	1
5	ZipLine-Assembly	Zipline frame	1
6	Timer-Green_Light	Competition begin/run light	1
7	Timer-Button_V2	Competition end button	1
8	Timer_Assembly-V2	Competition control timer	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH: Paint: Black, Yellow, White	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION 0																	
	<table border="1"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN Steven Steele</td> <td></td> <td>8/6/2023</td> </tr> <tr> <td>CHK'D</td> <td></td> <td></td> </tr> <tr> <td>APPV'D</td> <td></td> <td></td> </tr> <tr> <td>MFG</td> <td></td> <td></td> </tr> <tr> <td>Q.A</td> <td></td> <td></td> </tr> </tbody> </table>		NAME	SIGNATURE	DATE	DRAWN Steven Steele		8/6/2023	CHK'D			APPV'D			MFG			Q.A			TITLE: IEEE Robotics: Competition Field
NAME	SIGNATURE	DATE																			
DRAWN Steven Steele		8/6/2023																			
CHK'D																					
APPV'D																					
MFG																					
Q.A																					
MATERIAL:		DWG NO. IEEE-Comp_Field-Assembly		A4																	
WEIGHT:		SCALE:1:20		SHEET 2 OF 22																	



SECTION A-A

SECTION B-B

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: Paint: Black, Yellow, White		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0								
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DRAWN		NAME		SIGNATURE								DATE		DWG NO.		A4	
CHK'D												8/6/2023		IEEE-Comp_Field-Assembly			
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MFG																	
Q.A								WEIGHT:									

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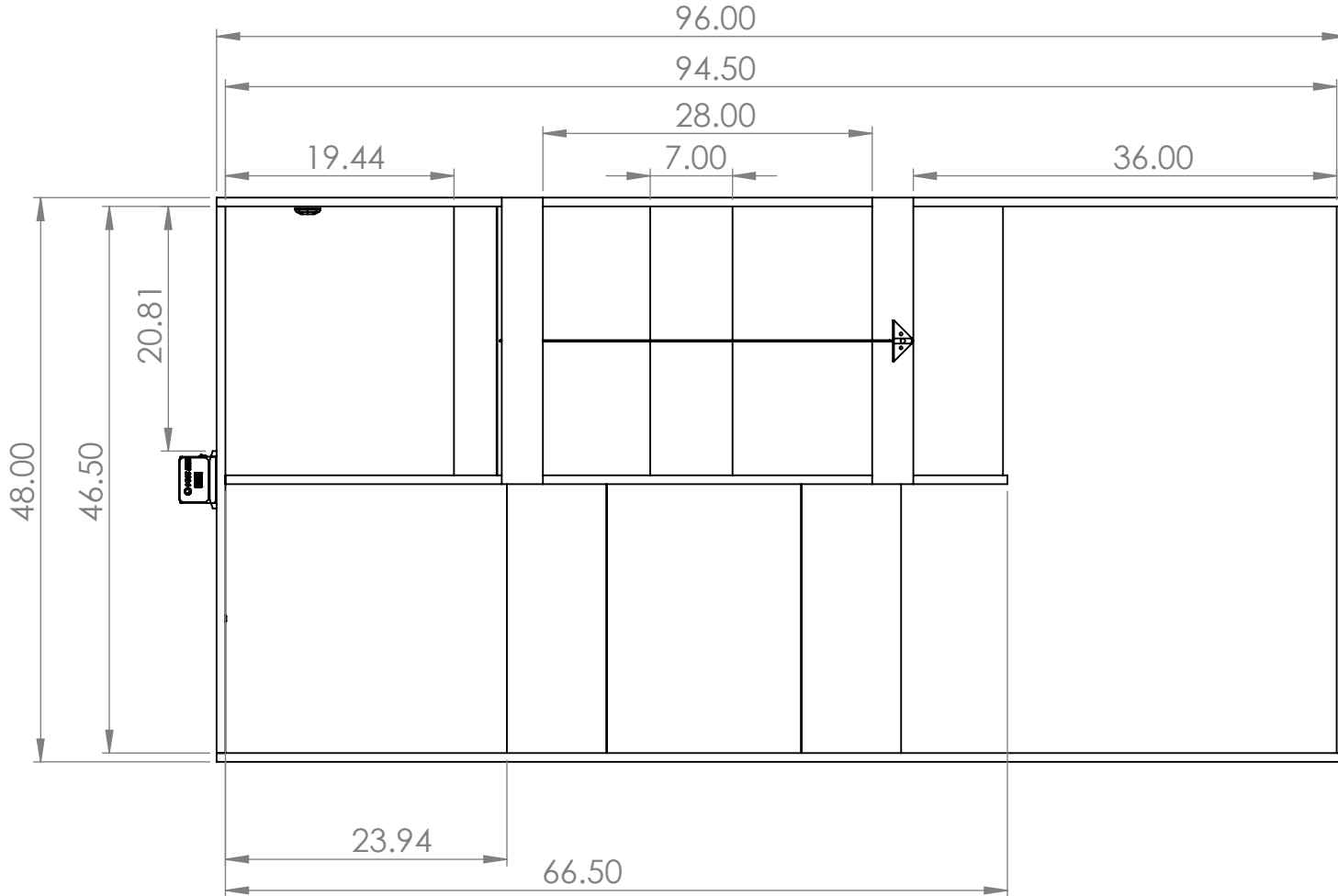
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 TOLERANCES:
 LINEAR:
 ANGULAR:

FINISH:
 Paint: Black, Yellow, White

DEBURR AND
 BREAK SHARP
 EDGES

DO NOT SCALE DRAWING REVISION 0

	NAME	SIGNATURE	DATE		
DRAWN	Steven Steele		8/6/2023		
CHK'D					
APPV'D					
MFG					
Q.A					
				MATERIAL:	
				WEIGHT:	

TITLE:
**IEEE Robotics:
 Competition Field**

DWG NO.
 IEEE-Comp_Field-Assembly A4

SCALE:1:15 SHEET 4 OF 22

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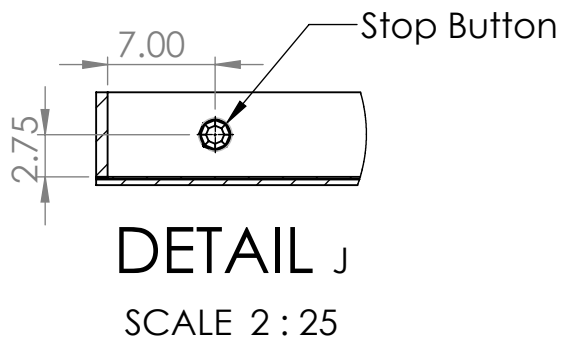
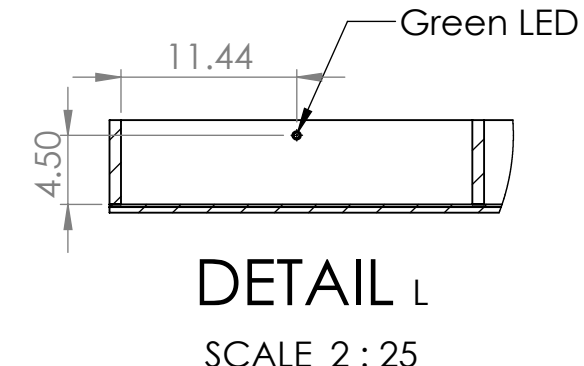
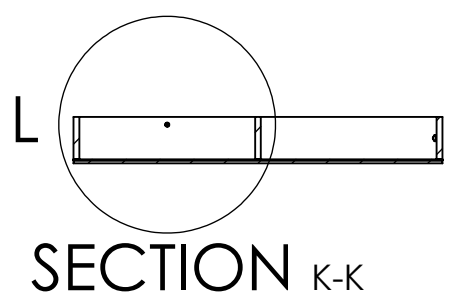
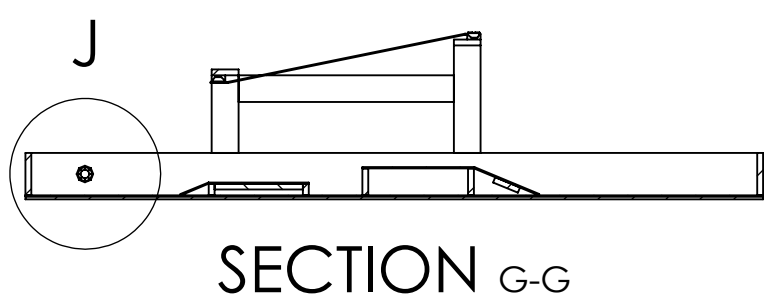
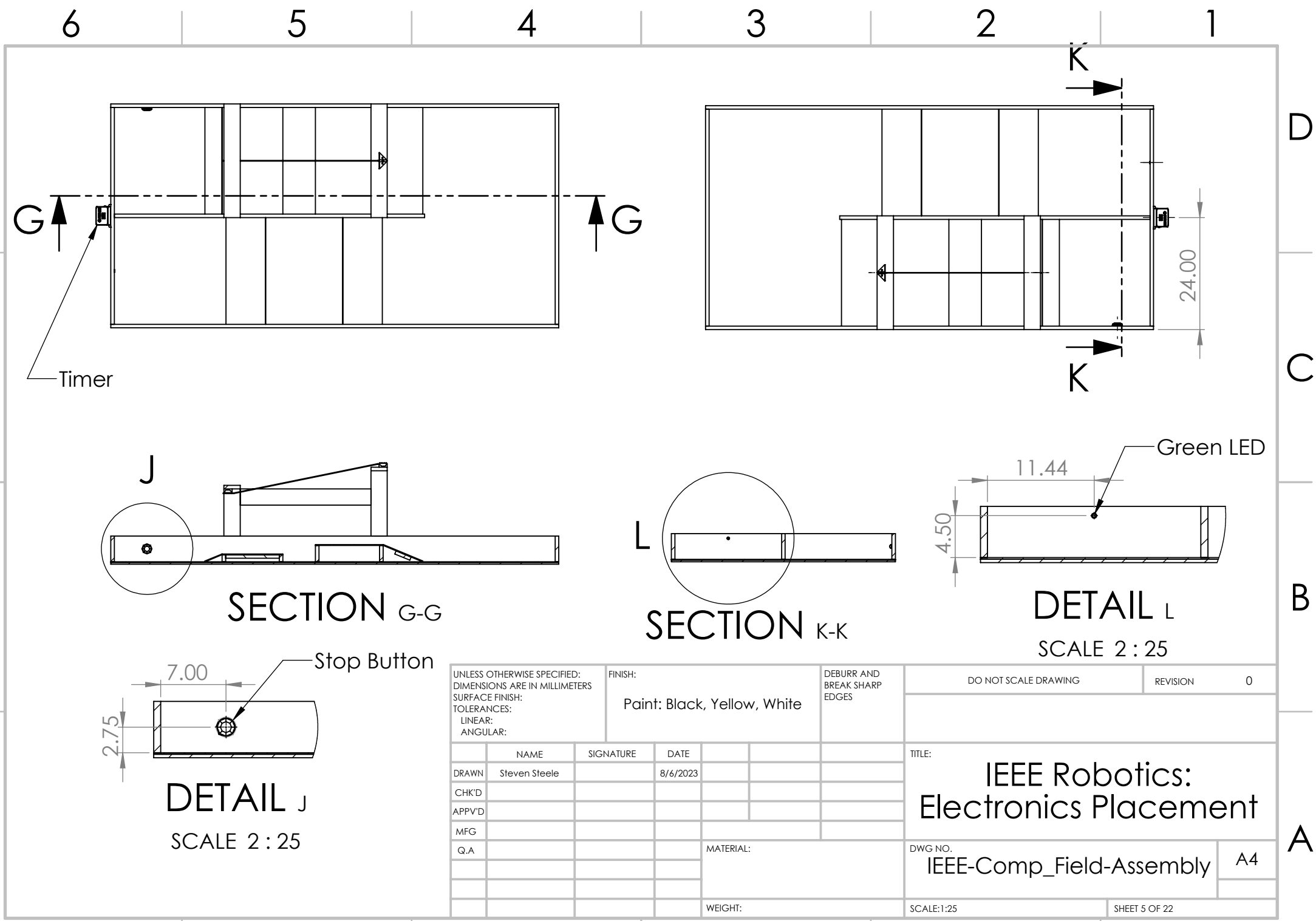
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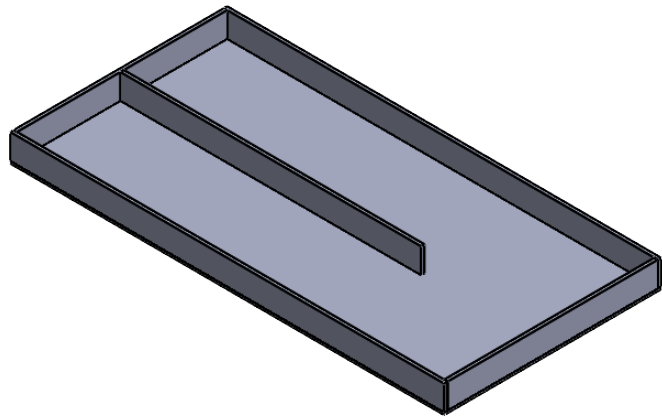
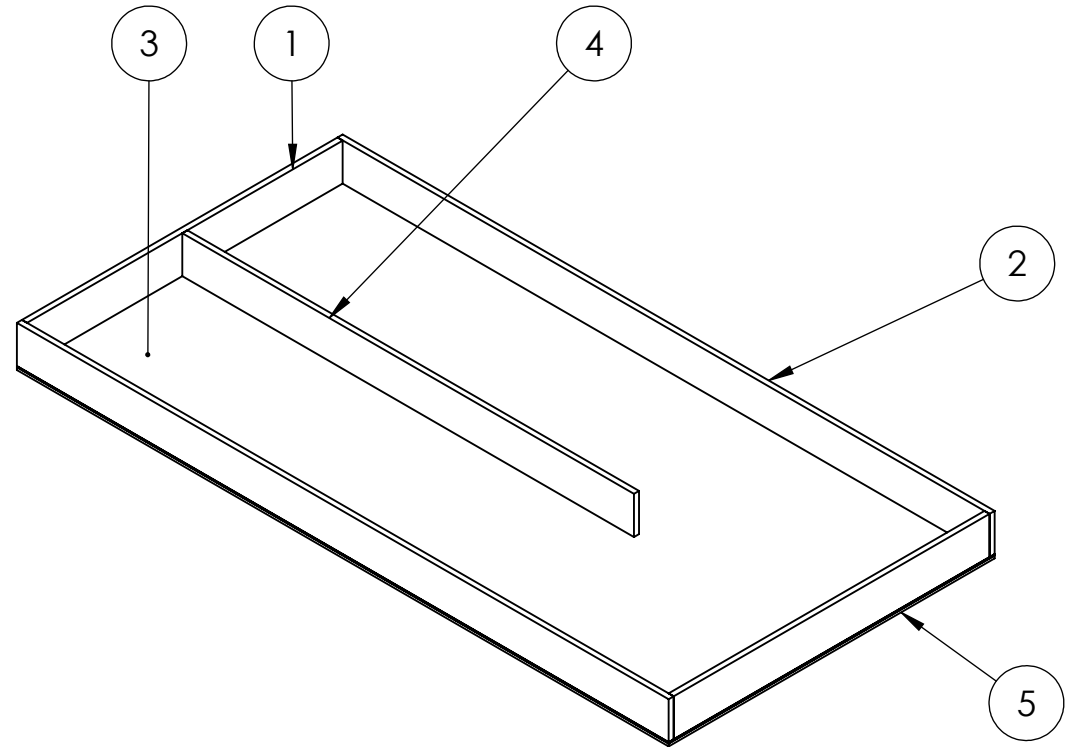
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DRAWN Steven Steele				SIGNATURE		DATE 8/6/2023		TITLE: IEEE Robotics: Electronics Placement			
CHK'D								DWG NO. IEEE-Comp_Field-Assembly A4			
APPVD											
MFG											
Q.A						MATERIAL:					
						WEIGHT:		SCALE:1:25		SHEET 5 OF 22	

ITEM NO.	PART NUMBER	QTY.
1	Board-5.5x0.75x46.5	2
2	Board-5.5x0.75x96	2
3	Field-Floor-96x48x5mm	1
4	Board-5.5x0.75x65.5	1
5	Feild-SubFloor-96x48x0.375	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH: Paint: Black, Yellow, White		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0	
SURFACE FINISH:									
TOLERANCES:									
LINEAR:									
ANGULAR:									
	NAME	SIGNATURE	DATE			TITLE: IEEE Robotics: Floor and Walls			
DRAWN	Steven Steele		8/6/2023						
CHK'D									
APPV'D									
MFG									
Q.A					MATERIAL:	DWG NO. IEEE-Comp_Field-Assembly		A4	
					WEIGHT:	SCALE:1:20		SHEET 6 OF 22	

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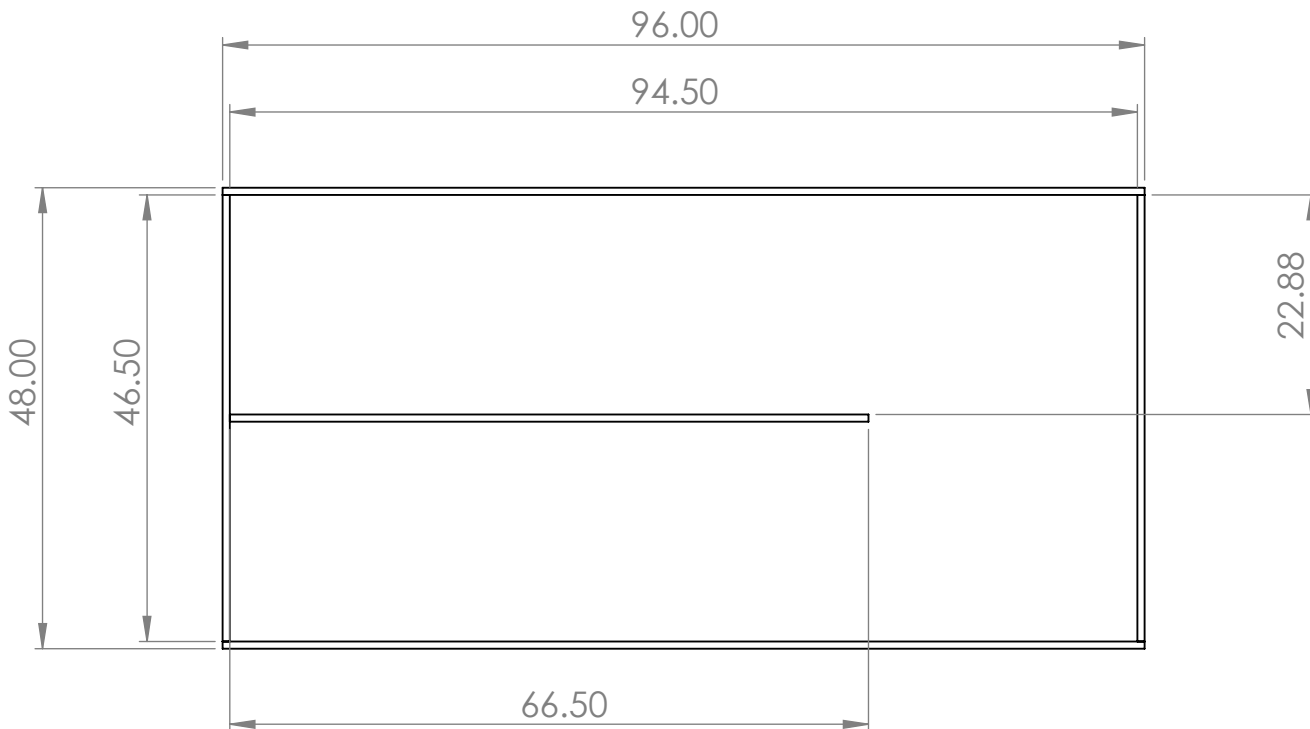
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 TOLERANCES:
 LINEAR:
 ANGULAR:

FINISH:
 Paint: Black, Yellow, White

DEBURR AND
 BREAK SHARP
 EDGES

DO NOT SCALE DRAWING

REVISION

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	NAME	SIGNATURE	DATE		
DRAWN	Steven Steele		8/6/2023		
CHK'D					
APPV'D					
MFG					
Q.A					
				MATERIAL:	
				WEIGHT:	

TITLE:

IEEE Robotics:
 Floor and Walls

DWG NO.

IEEE-Comp_Field-Assembly

A4

SCALE:1:20

SHEET 7 OF 22

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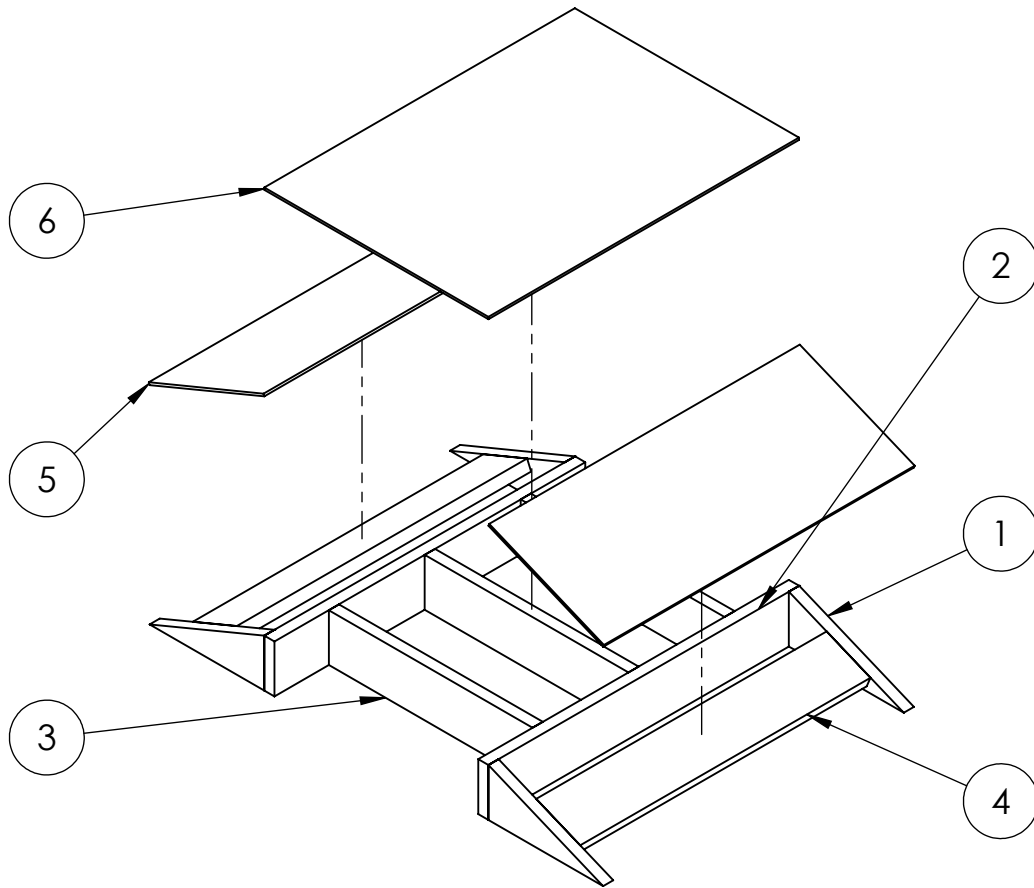
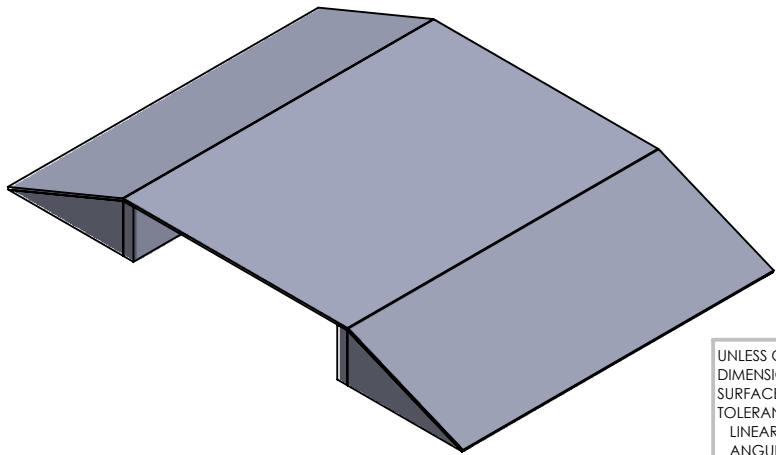
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ITEM NO.	PART NUMBER	QTY.
1	Ramp-Wedge-3.5x0.75x8.45	4
2	Board-3.5x0.75x22.875	2
3	Board-3.5x0.75x15	3
4	Board-3.5x0.75x21.375	2
5	Ramp-Wedge_Plate-9.15x22.875x5mm	2
6	Main-Ramp-Platform-16.5x22.875x5mm	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH: Paint: Black, Yellow, White		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0	
SURFACE FINISH:									
TOLERANCES:									
LINEAR:									
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	NAME	SIGNATURE	DATE	TITLE: IEEE Robotics: Main Ramp					
DRAWN	Steven Steele		8/6/2023						
CHK'D									
APPV'D									
MFG									
Q.A				MATERIAL:		DWG NO. IEEE-Comp_Field-Assembly		A4	
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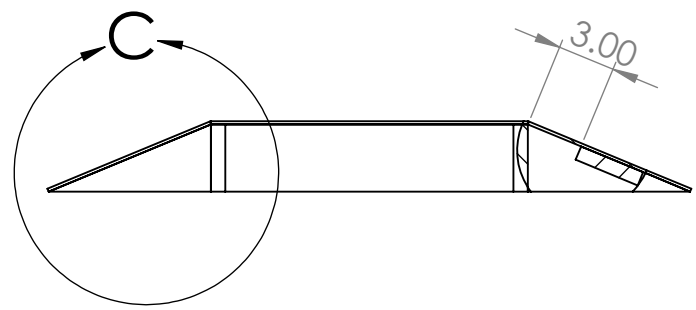
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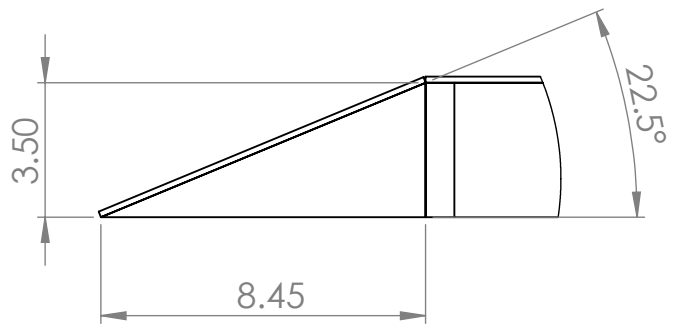
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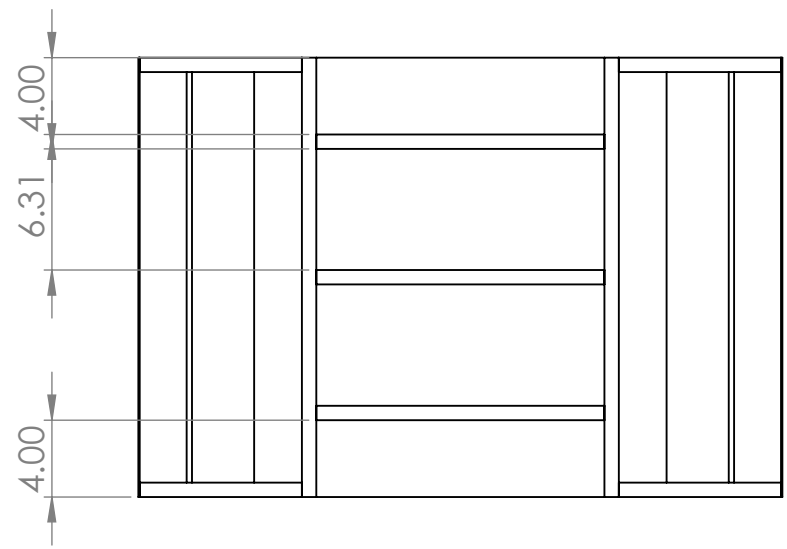
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DETAIL C
SCALE 1 : 5



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DRAWN		NAME		SIGNATURE		DATE						DWG NO.		
CHK'D		Steven Steele				8/6/2023						IEEE-Comp_Field-Assembly		
APPV'D												A4		
MFG														
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								WEIGHT:		SHEET 9 OF 22				

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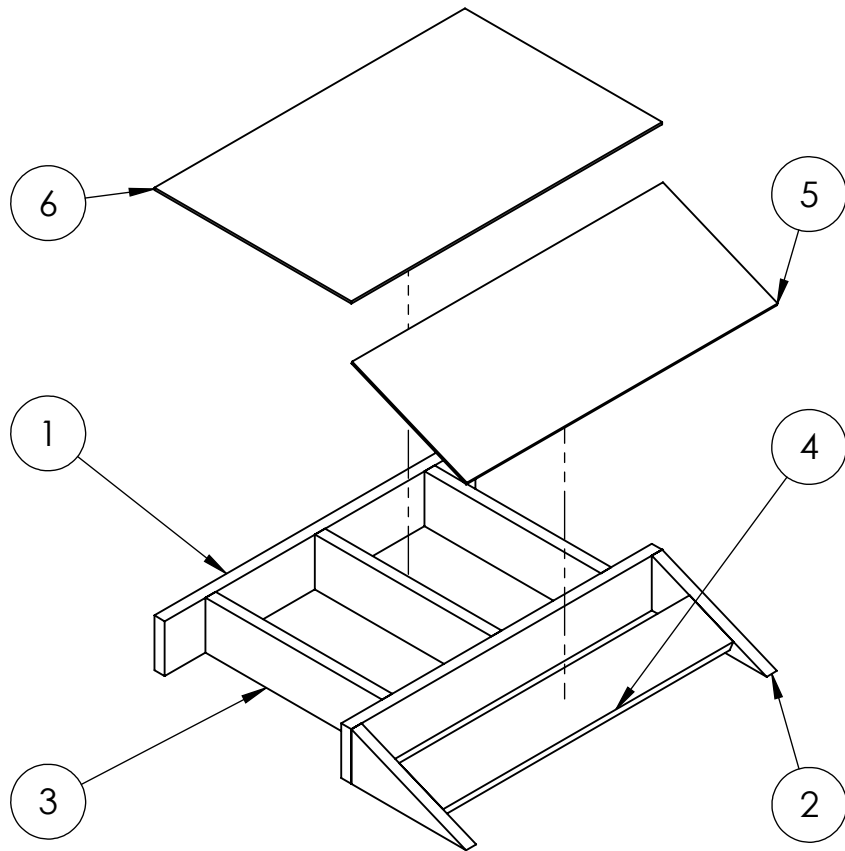
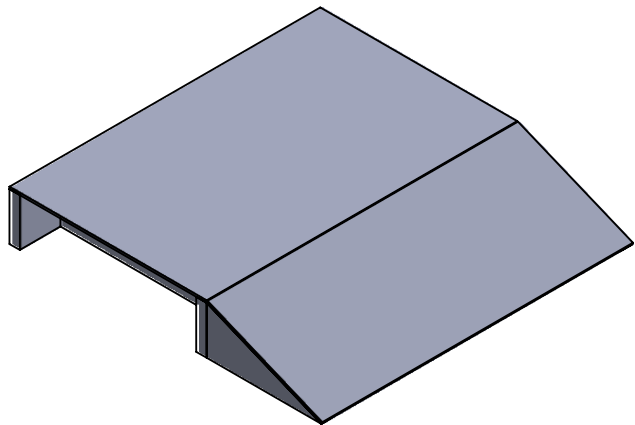
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ITEM NO.	PART NUMBER	QTY.
1	Board-3.5x0.75x22.875	2
2	Ramp-Wedge-3.5x0.75x8.45	2
3	Board-3.5x0.75x13	3
4	Board-3.5x0.75x21.375	1
5	Ramp-Wedge_Plate-9.15x22.875x5mm	1
6	Launch-Platform-14.5x22.875x5mm	1

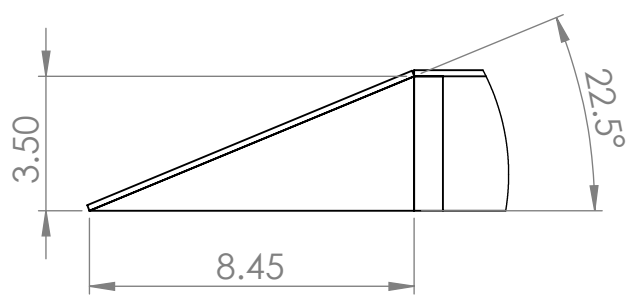


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DRAWN Steven Steele		SIGNATURE		DATE 8/6/2023		<p style="text-align: center; font-size: 24pt; margin: 0;">IEEE Robotics: Launch Platform</p>			
CHK'D									
APPV'D									
MFG									
Q.A									
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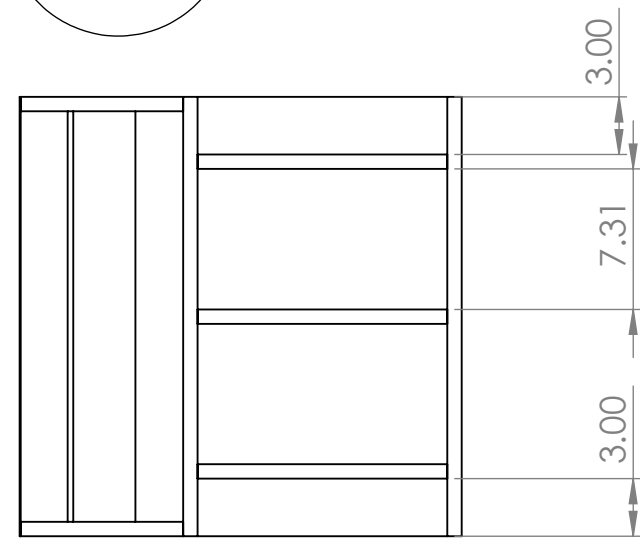
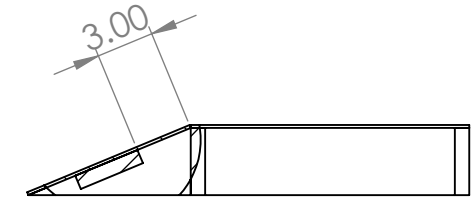
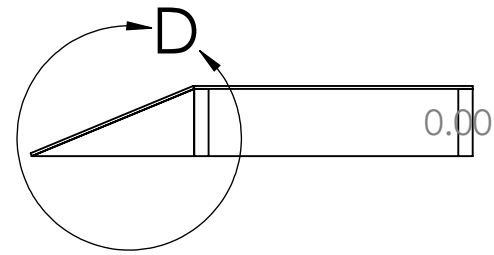
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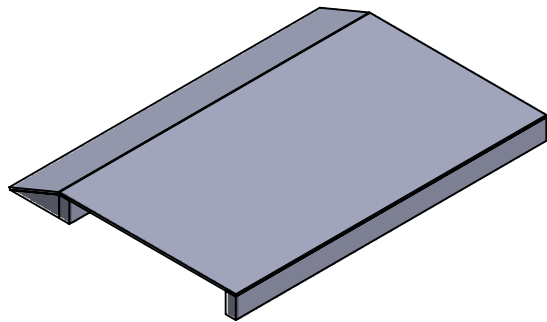
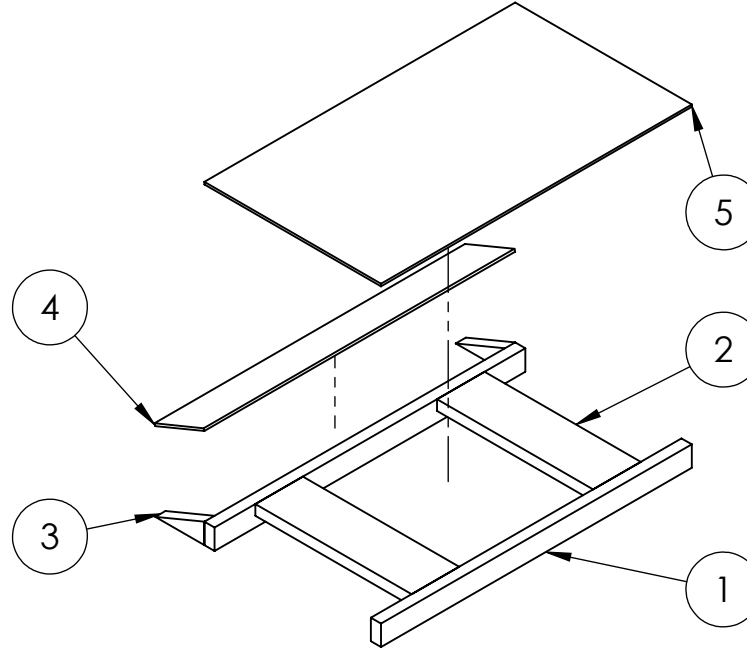
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SCALE 1 : 5



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CHK'D														IEEE-Comp_Field-Assembly			
APPV'D														SCALE:1:10		SHEET 11 OF 22	
MFG																	
Q.A								MATERIAL:									
								WEIGHT:									

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ITEM NO.	PART NUMBER	QTY.
1	Board-1.5x0.75x22.875	2
2	Board-3.5x0.75x11.5	2
3	Ramp-Wedge-1.5x3.62x0.75	2
4	Ramp-Wedge_Plate-2	1
5	Landing-Platform-3.92x22.875x5mm	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH: Paint: Black, Yellow, White		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0	
DRAWN Steven Steele						DATE 8/6/2023					
CHK'D											
APPV'D											
MFG											
Q.A						MATERIAL:					
						WEIGHT:					
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						DWG NO. IEEE-Comp_Field-Assembly A4					
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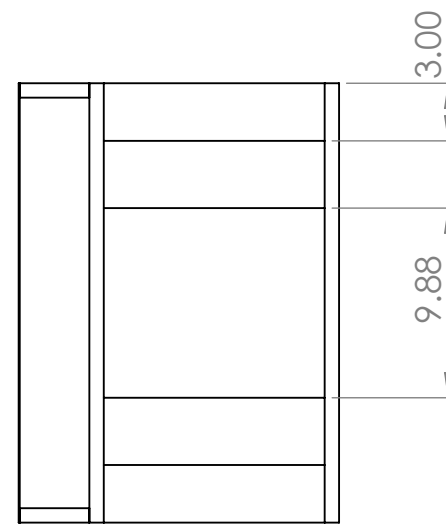
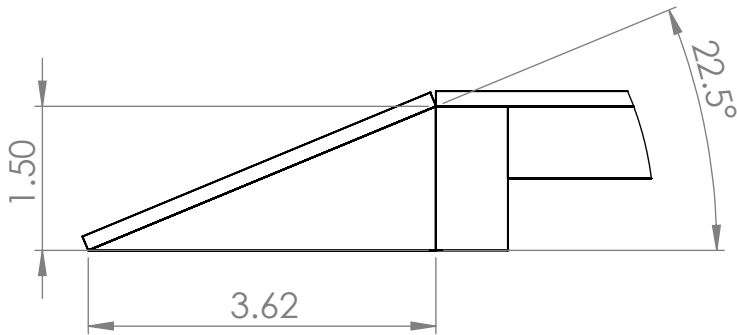
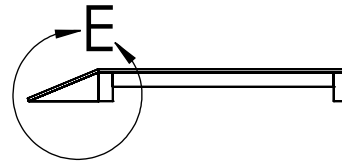
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DETAIL E
SCALE 1 : 2

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APPV'D										
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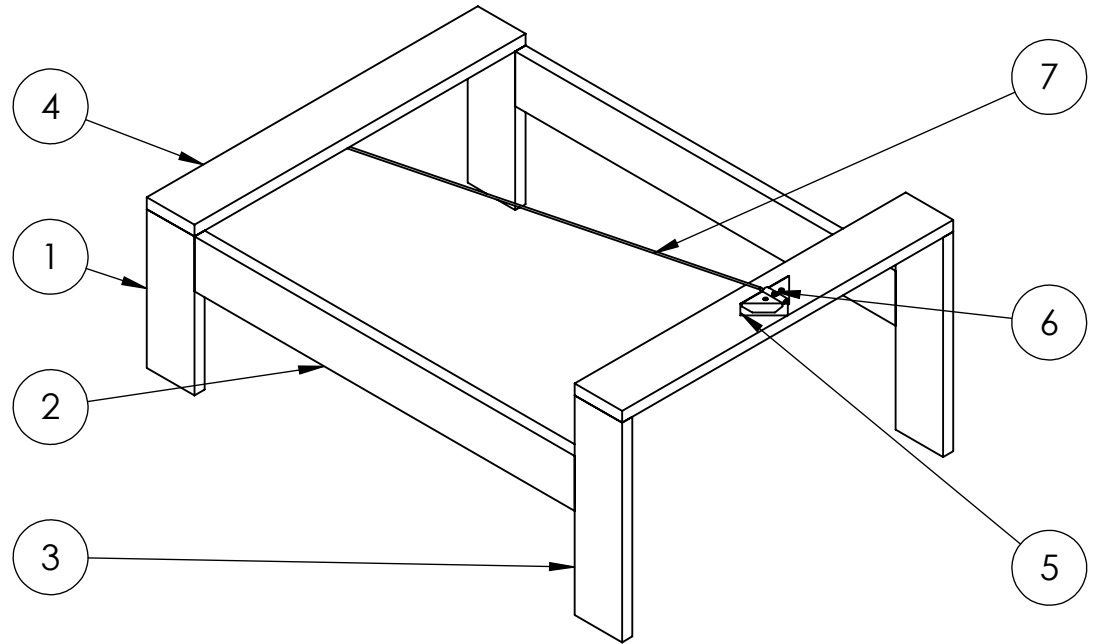
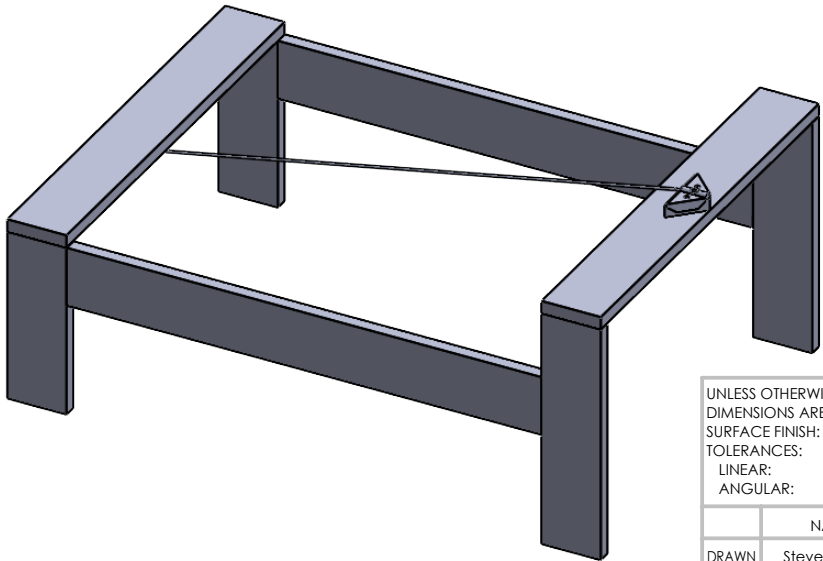
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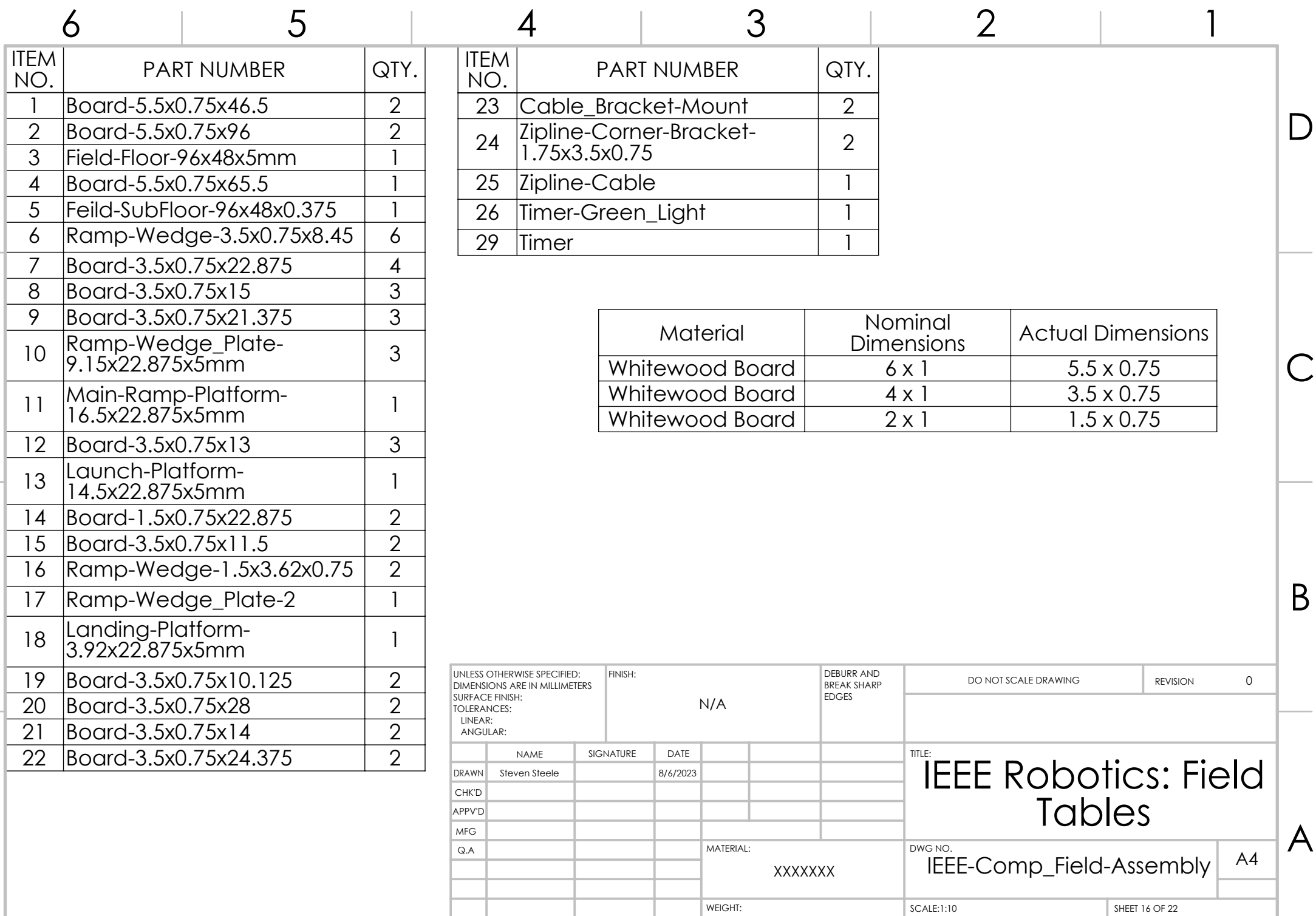
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ITEM NO.	PART NUMBER	QTY.
1	Board-3.5x0.75x10.125	2
2	Board-3.5x0.75x28	2
3	Board-3.5x0.75x14	2
4	Board-3.5x0.75x24.375	2
5	Cable_Bracket-Mount	2
6	Zipline-Corner-Bracket-1.75x3.5x0.75	2
7	Zipline-Cable	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH: Paint: Black, Yellow, White		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0	
DRAWN Steven Steele		SIGNATURE		DATE 8/6/2023		<p style="text-align: center; font-size: 24pt; font-weight: bold;">IEEE Robotics: Zipline</p>			
CHK'D									
APPV'D									
MFG									
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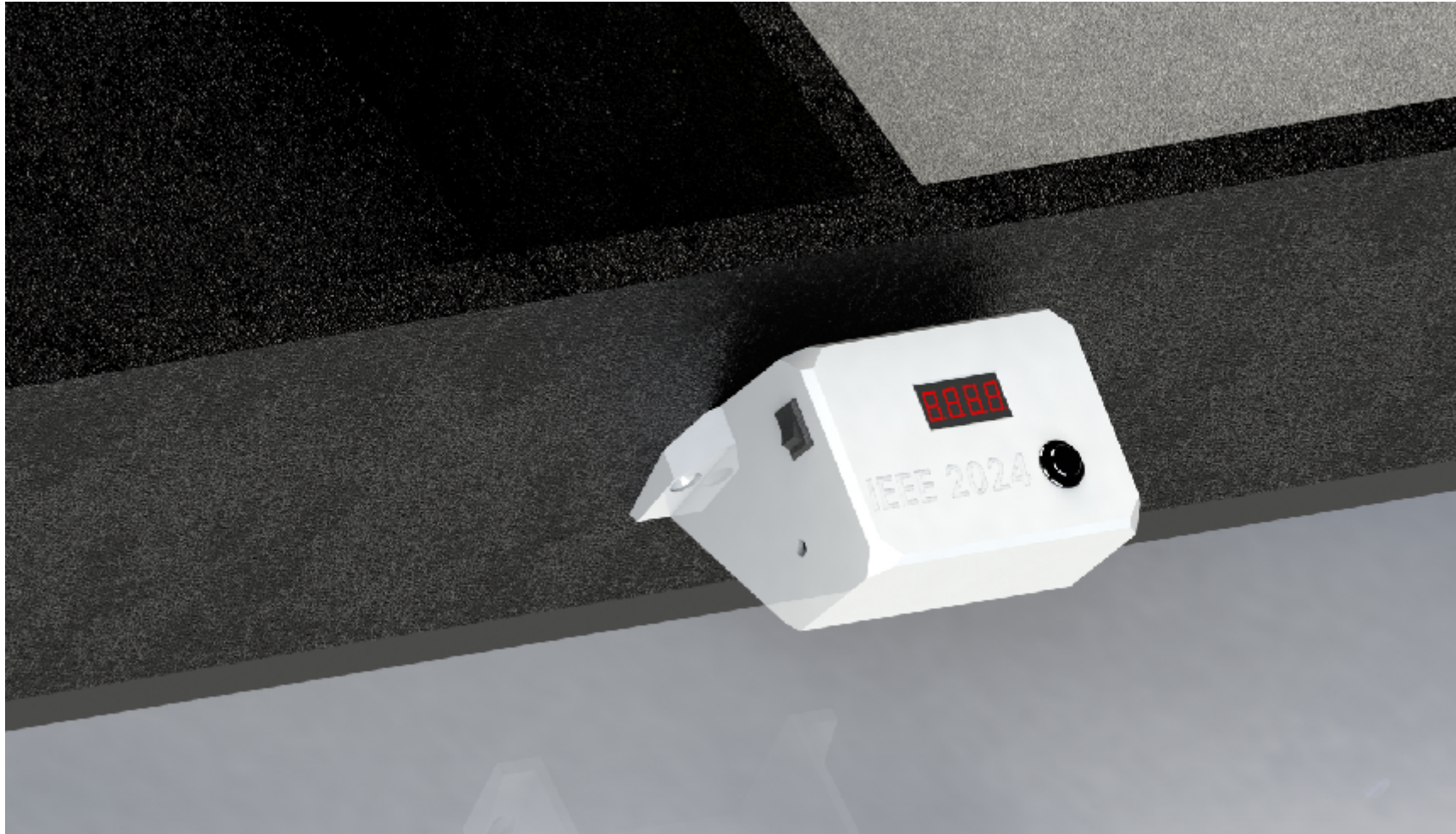


ITEM NO.	PART NUMBER	QTY.
1	Board-5.5x0.75x46.5	2
2	Board-5.5x0.75x96	2
3	Field-Floor-96x48x5mm	1
4	Board-5.5x0.75x65.5	1
5	Feild-SubFloor-96x48x0.375	1
6	Ramp-Wedge-3.5x0.75x8.45	6
7	Board-3.5x0.75x22.875	4
8	Board-3.5x0.75x15	3
9	Board-3.5x0.75x21.375	3
10	Ramp-Wedge_Plate-9.15x22.875x5mm	3
11	Main-Ramp-Platform-16.5x22.875x5mm	1
12	Board-3.5x0.75x13	3
13	Launch-Platform-14.5x22.875x5mm	1
14	Board-1.5x0.75x22.875	2
15	Board-3.5x0.75x11.5	2
16	Ramp-Wedge-1.5x3.62x0.75	2
17	Ramp-Wedge_Plate-2	1
18	Landing-Platform-3.92x22.875x5mm	1
19	Board-3.5x0.75x10.125	2
20	Board-3.5x0.75x28	2
21	Board-3.5x0.75x14	2
22	Board-3.5x0.75x24.375	2

ITEM NO.	PART NUMBER	QTY.
23	Cable_Bracket-Mount	2
24	Zipline-Corner-Bracket-1.75x3.5x0.75	2
25	Zipline-Cable	1
26	Timer-Green_Light	1
29	Timer	1

Material	Nominal Dimensions	Actual Dimensions
Whitewood Board	6 x 1	5.5 x 0.75
Whitewood Board	4 x 1	3.5 x 0.75
Whitewood Board	2 x 1	1.5 x 0.75

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TOLERANCES:									
LINEAR:									
ANGULAR:									
DRAWN	NAME Steven Steele	SIGNATURE	DATE 8/6/2023			DWG NO. IEEE-Comp_Field-Assembly		A4	
CHK'D									
APPV'D									
MFG									
Q.A				MATERIAL: XXXXXXX					
				WEIGHT:		SCALE:1:10		SHEET 16 OF 22	



IEEE SOUTHEASTCON 2024
Robotic Competition Field - Timer

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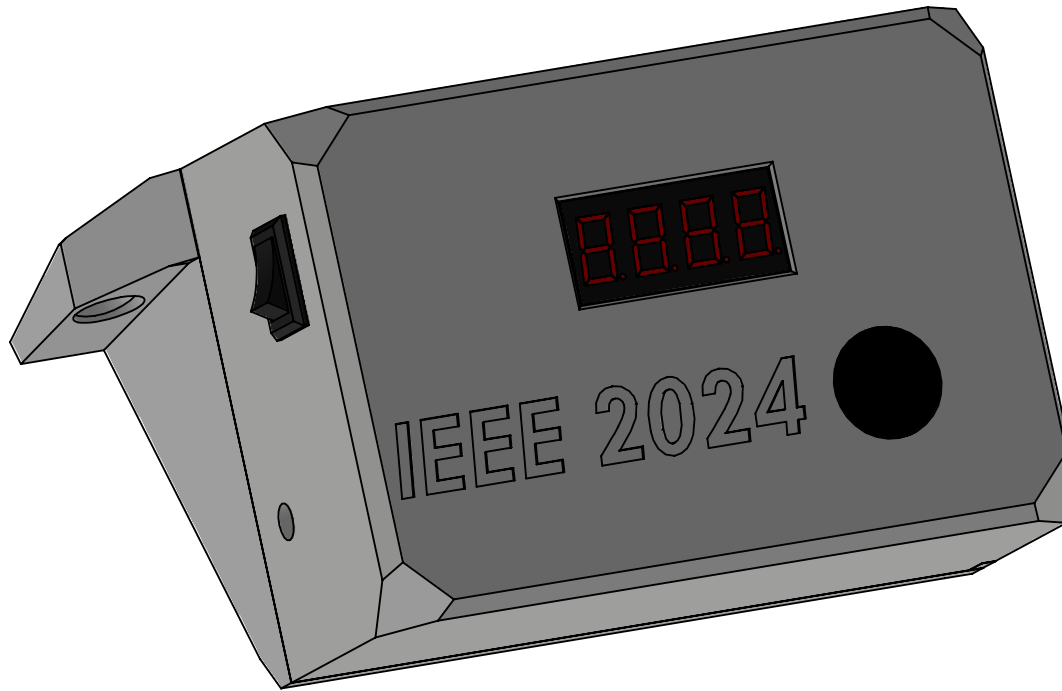
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: N/A		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION 0	
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DRAWN	NAME Steven Steele	SIGNATURE	DATE 8/6/2023						
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APPV'D									
MFG									
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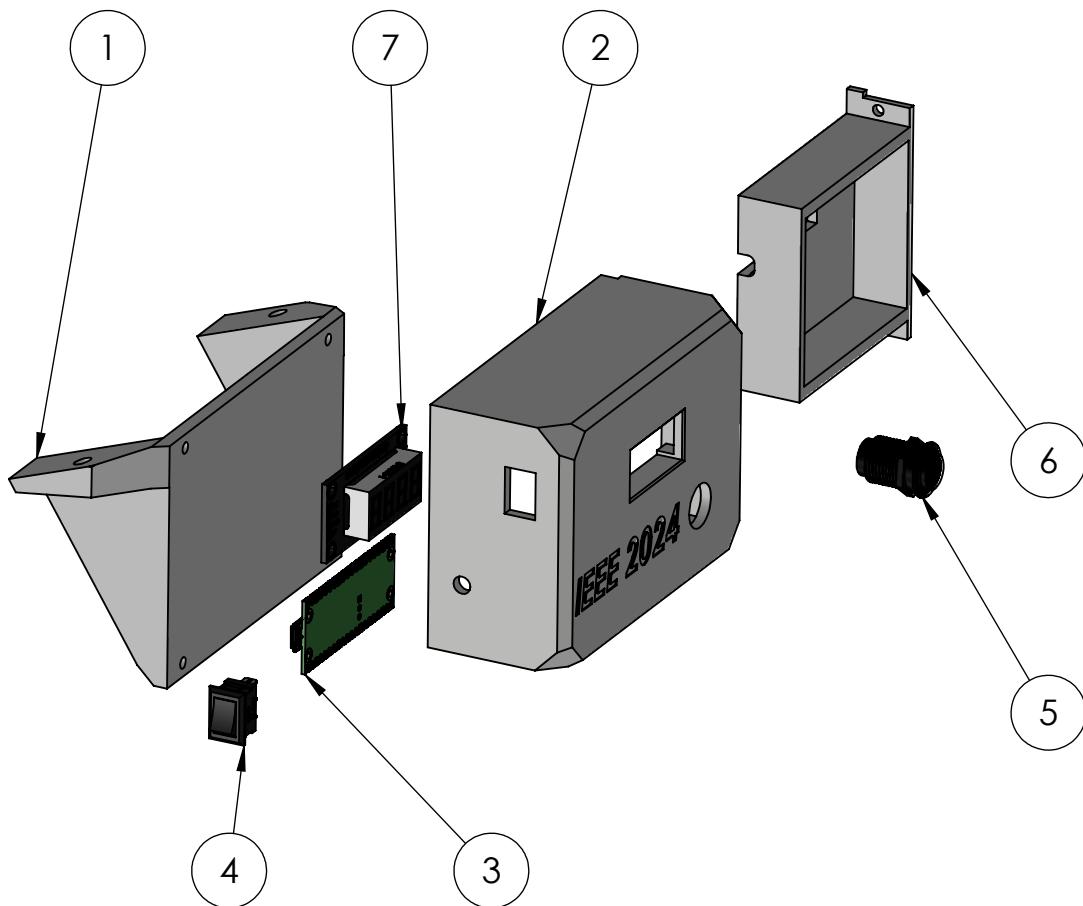
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ITEM NO.	PART NUMBER	QTY.
1	Timer_Case-Back-Angle-V2	1
2	Timer_Case-Front-V2	1
3	RaspBerryPi Pico W.step	1
4	Rocker Switch	1
5	Timer_Case-Start_Button	1
6	Timer_Case-Battery_Holder	1
7	TM1637 4 Digit 7-Segment Display	1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: N/A		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION 0																																						
<table border="1"> <thead> <tr> <th></th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>DRAWN</td> <td>Steven Steele</td> <td></td> <td>8/6/2023</td> <td></td> <td></td> </tr> <tr> <td>CHK'D</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPV'D</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MFG</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Q.A</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							NAME	SIGNATURE	DATE			DRAWN	Steven Steele		8/6/2023			CHK'D						APPV'D						MFG						Q.A						TITLE: IEEE Robotics: Timer Assembly					
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MATERIAL: PLA						DWG NO. IEEE-Comp_Field-Assembly			A4																																						
WEIGHT:						SCALE:1:2			SHEET 19 OF 22																																						

ITEM NO.	PART NUMBER	QTY.
1	Timer_Case-Back-Angle-V2	1
2	Timer_Case-Front-V2	1
3	RaspBerryPi Pico W.step	1
4	Rocker Switch	1
5	Timer_Case-Start_Button	1
6	Timer_Case-Battery_Holder	1
7	TM1637 4 Digit 7-Segment Display	1
8	M3 Self Tapping Screw - 6mm	6
9	M2.2 Self Tapping Screw - 4mm	4
10	M2 Self Tapping Screw - 4mm	4
11	Stop Button	1

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: N/A		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION 0	
						<p style="text-align: center; font-size: 24px; margin: 0;">IEEE Robotics: Timer Tables</p>			
DRAWN	NAME	SIGNATURE	DATE						
CHK'D									
APPV'D									
MFG									
Q.A						MATERIAL: PLA		DWG NO. IEEE-Comp_Field-Assembly	
						WEIGHT:		SCALE:1:2	
								SHEET 20 OF 22	

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IEEE SOUTHEASTCON 2024
Robotic Competition Field - Game Pieces

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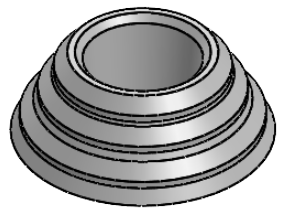
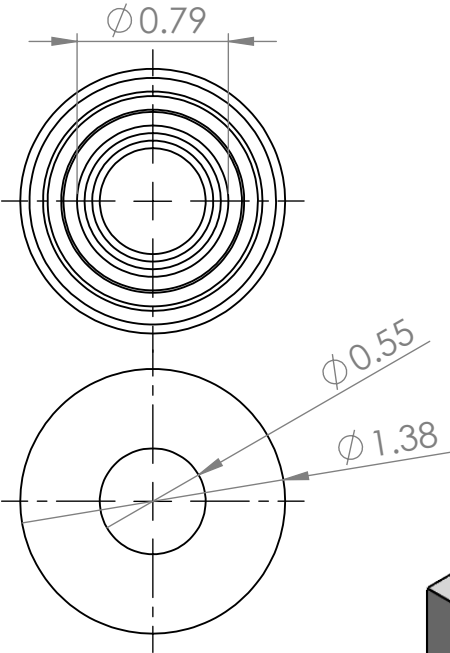
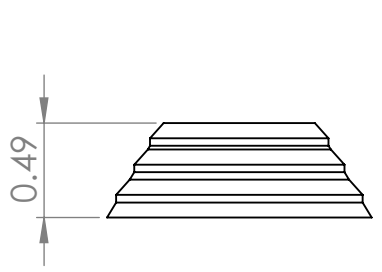
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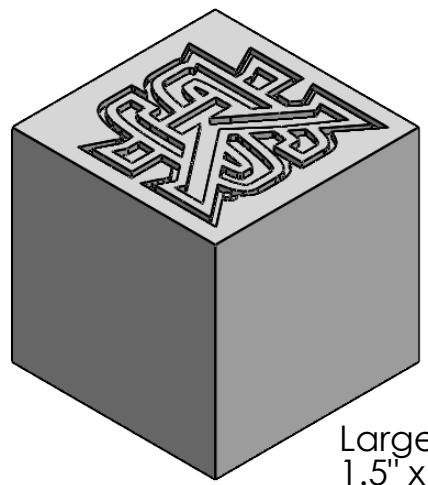
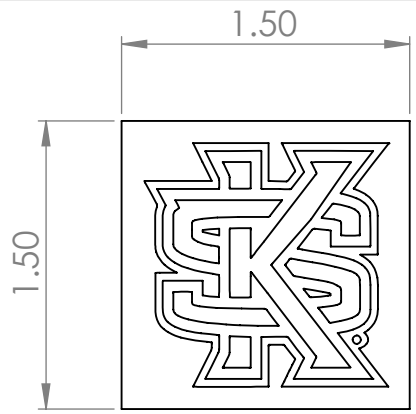
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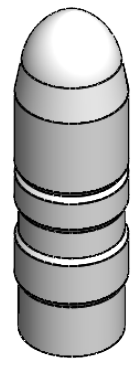
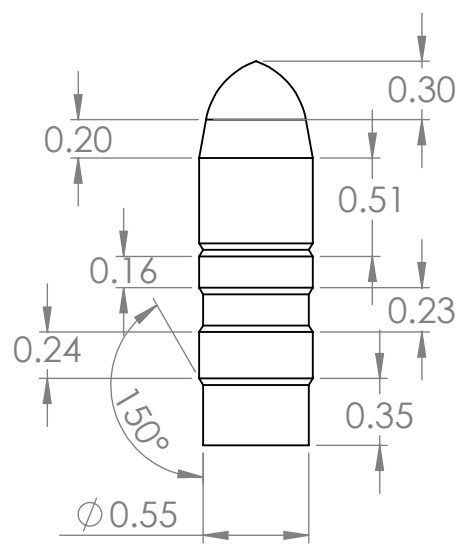
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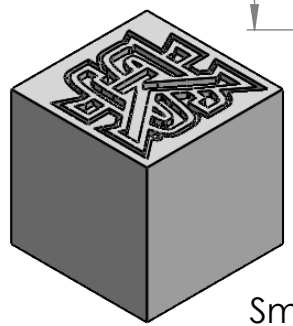
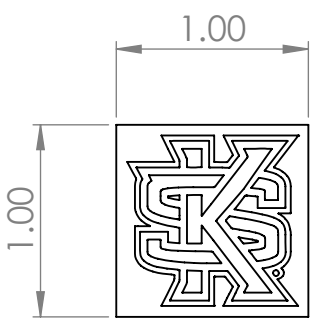
Thruster Nozzle



Large Cargo Cube
1.5" x 1.5" x 1.5"



Fuel Tank



Small Cargo Cube
1" x 1" x 1"

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DRAWN Steven Steele			SIGNATURE			DATE 8/6/2023			TITLE: IEEE Robotics: Game Pieces			
CHK'D									DWG NO. IEEE-Comp_Field-Assembly A4			
APPVD												
MFG									SCALE:1:1 SHEET 22 OF 22			
Q.A						MATERIAL: PLA						
						WEIGHT:						

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