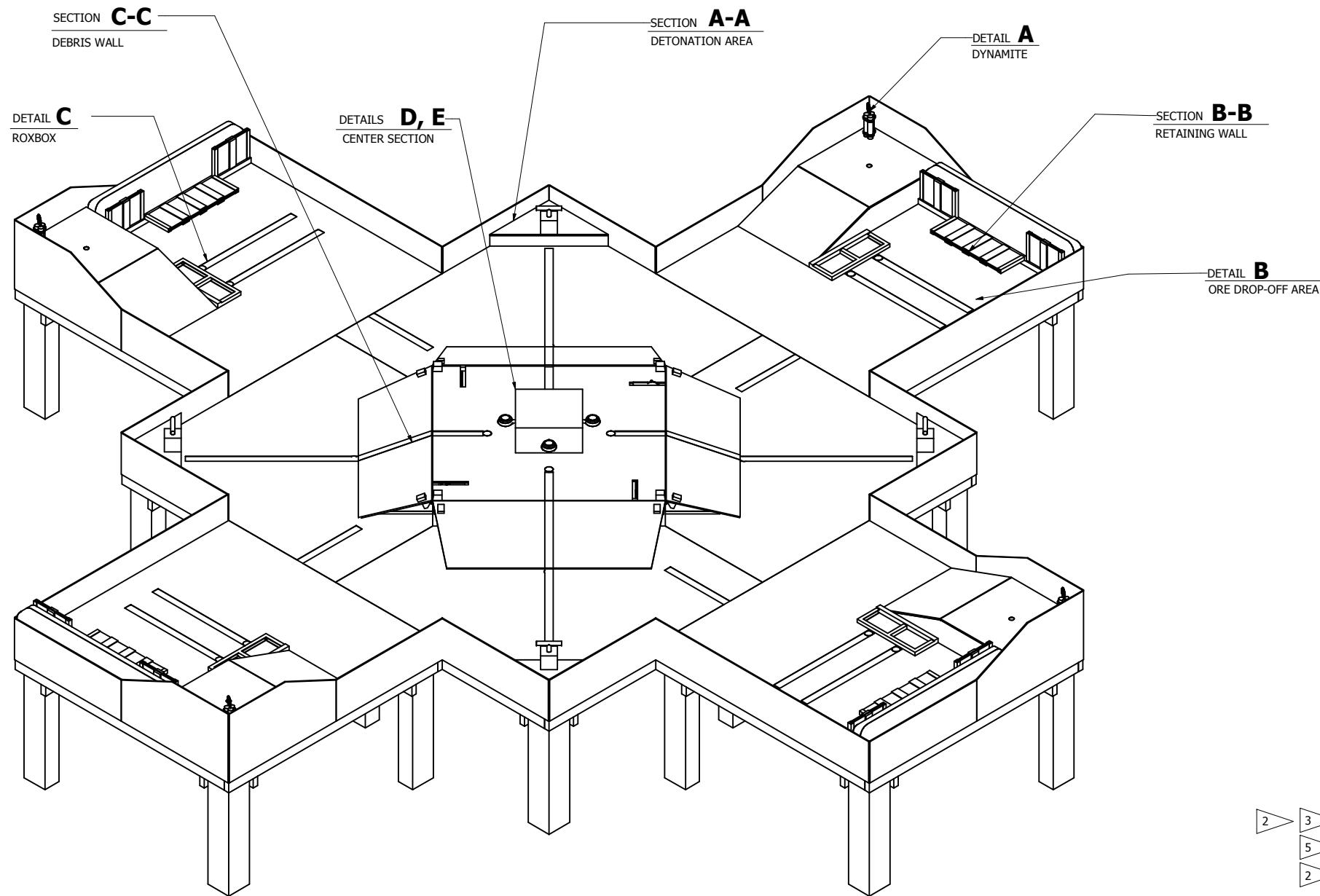


ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	8 APR 09	B. CARRUTHERS
	A	DETAIL VIEWS ADDED DYNAMITE ADDED TO -101 BASE VIEW NOTES 5-8 ADDED ITEMS 10-11 ADDED TO BOM	8 APR 09	B. CARRUTHERS
	B	BLAST ZONE DETAIL ADDED ROXBOX LIGHTS ADDED ORE DETAIL VIEW ADDED ALUM. STRIPS ADDED TO MIDDLE SECTION WII REMOTE STAND DETAIL ADDED	14 APR 09	B. CARRUTHERS



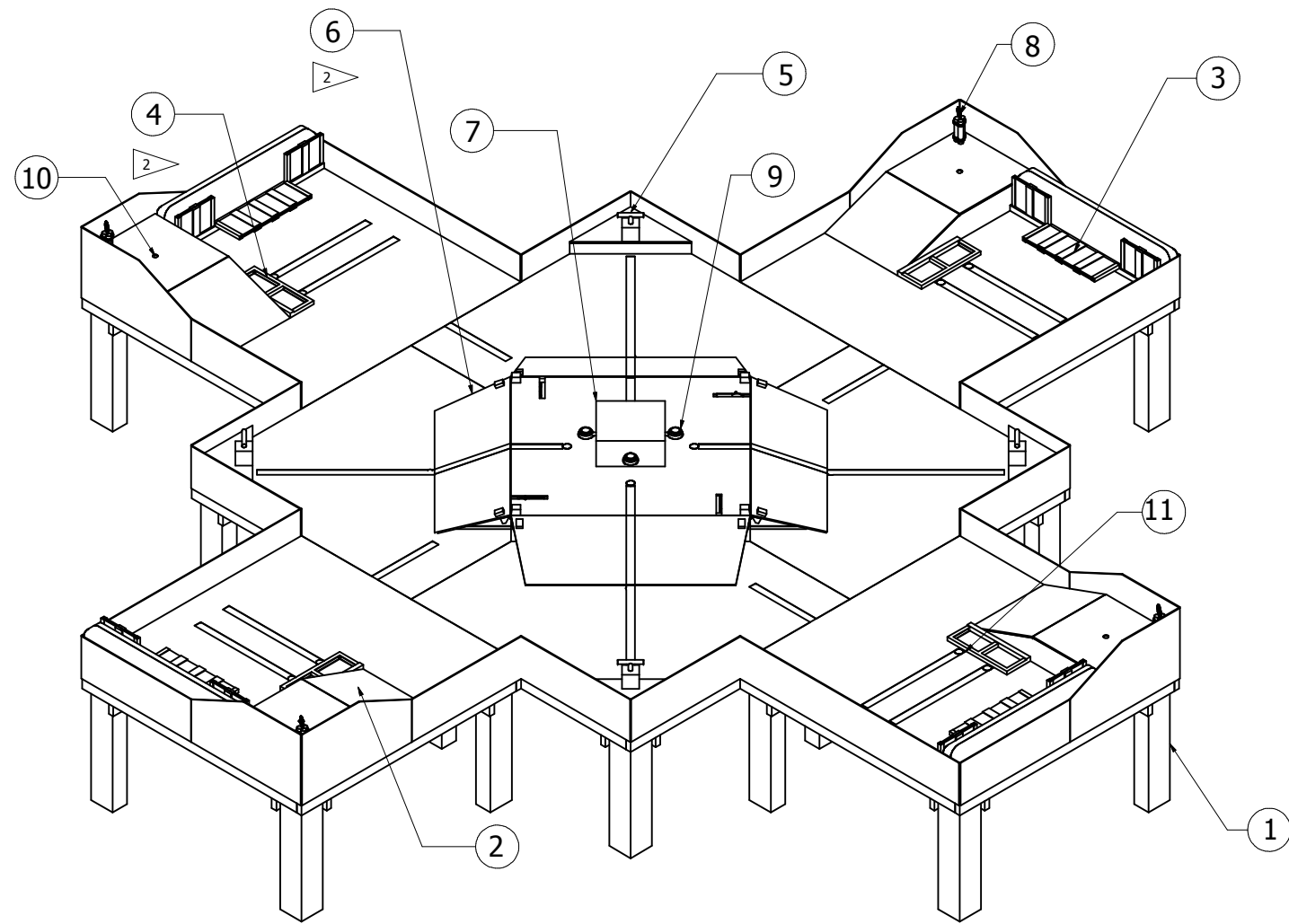
**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.1:1

QTY	PT #	DESCRIPTION	SPECIFICATION	ITEM #
1	-012	NINTENDO WII REMOTE STAND		12
12	-011	ROXBOX LIGHT	5 BLUE LEDES, 4 RED LEDES	11
4	-010	START LIGHT	7 RED LEDES	10
4	-009	ORE		9
4	-008	DYNAMITE	22 GAUGE BRAIDED WIRE LOOP	8
1	-007	BLOCK, CENTER		7
4	-006	DEBRIS, RAMP		6
4	-005	DETONATOR		5
4	-004	ROXBOX		4
4	-003	RETAINING WALL		3
4	-002	RAMP, STARTING		2
1	-001	ASSEMBLY, STAND		1
<b>ROBOT COURSE, FINAL DESIGN PROJECT</b>				
QTY	PT #	DESCRIPTION	SPECIFICATION	ITEM #

8. ITEM 2, STARTING RAMP, HAS A SLOPE OF 20°. ITEM 6, DEBRIS RAMP, HAS A SLOPE OF 24.4°.
7. RETAINING WALL IS TO BE ROTATED 90°, TO VERTICAL.
6. DYNAMITE STARTS INSIDE THE 9" X 9" X 12" ROBOT FOOTPRINT.
5. THROW OF DETONATOR IS 1/2". SHOWN IS THE INITIAL (UP) POSITION.
4. NINTENDO WII REMOTE STAND NOT SHOWN FOR CLARITY.
3. DEBRIS RAMPS WILL FALL TWO SECONDS AFTER DETONATOR IS ACTIVATED.
2. NAVIGATION STRIPS ARE ALUMINUM.
1. DIMENSIONING AND TOLERANCING AS PER ASME Y14.5-1994.

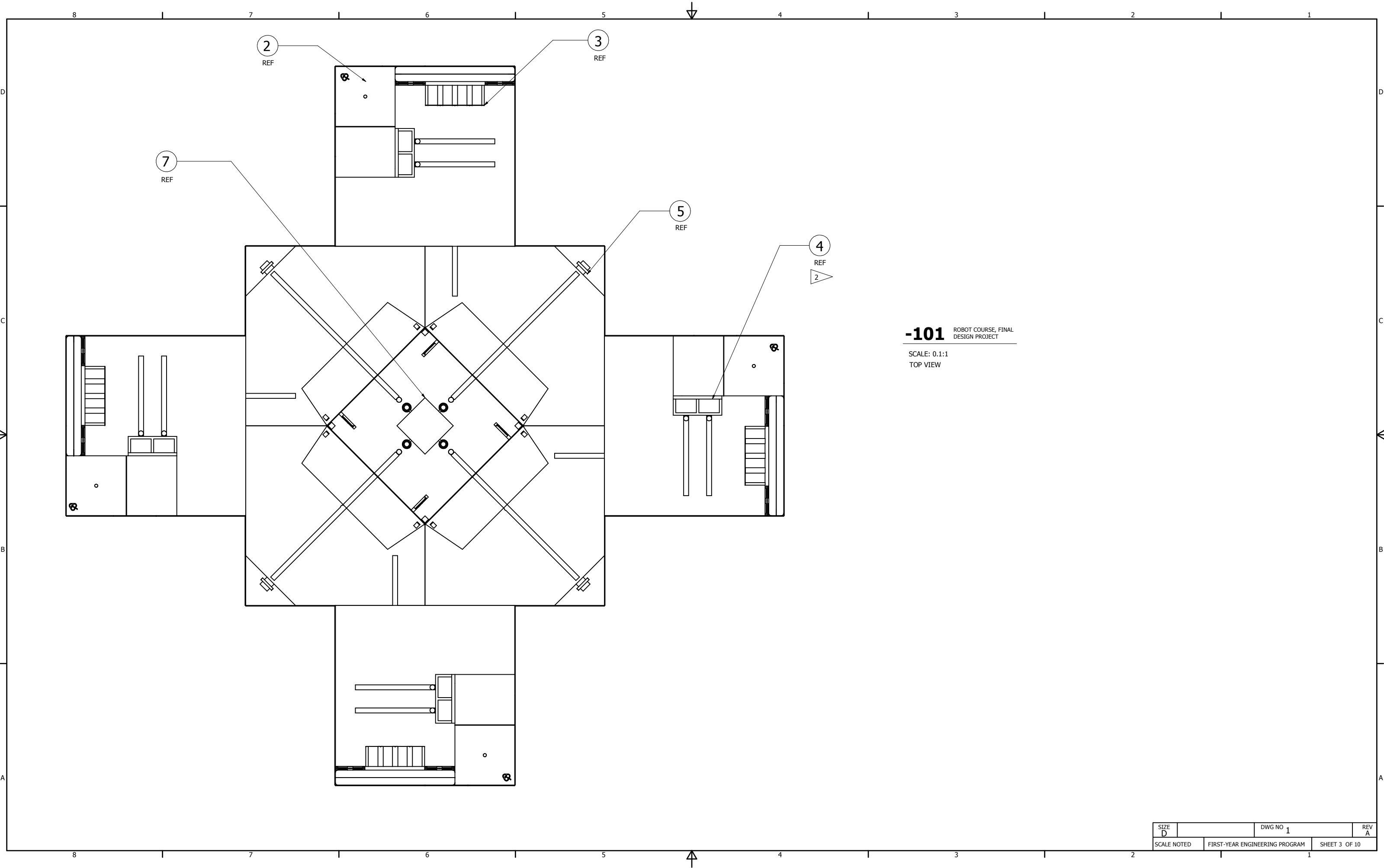
NOTES: UNLESS OTHERWISE SPECIFIED.

DIMENSIONAL TOLERANCE UNLESS OTHERWISE SPECIFIED .0 ± 0.25" ANGULAR ± 2' .00 ± 0.125" FILLET RADIUS - N/A CORNER BREAK - 0.125" SURFACE FINISH - 63/		SIGNATURES DR B. CARRUTHERS 8 APR 09 ENG M. VERNIER 8 APR 09 M. LIMMER 8 APR 09 CH APP AUTH	DATE 8 APR 09 8 APR 09 8 APR 09	<b>THE OHIO STATE UNIVERSITY</b> FUNDAMENTALS OF ENGINEERING FOR HONORS COLUMBUS, OHIO  <b>ROBOT COURSE, FINAL DESIGN PROJECT</b>
THIRD ANGLE PROJECTION 	EFFECTIVITY 5 JUN 2009	SIZE D	DWG NO 1 REV A	
NEXT ASSEMBLY N/A	SCALE NOTED FIRST-YEAR ENGINEERING PROGRAM	SHEET 1 OF 10		



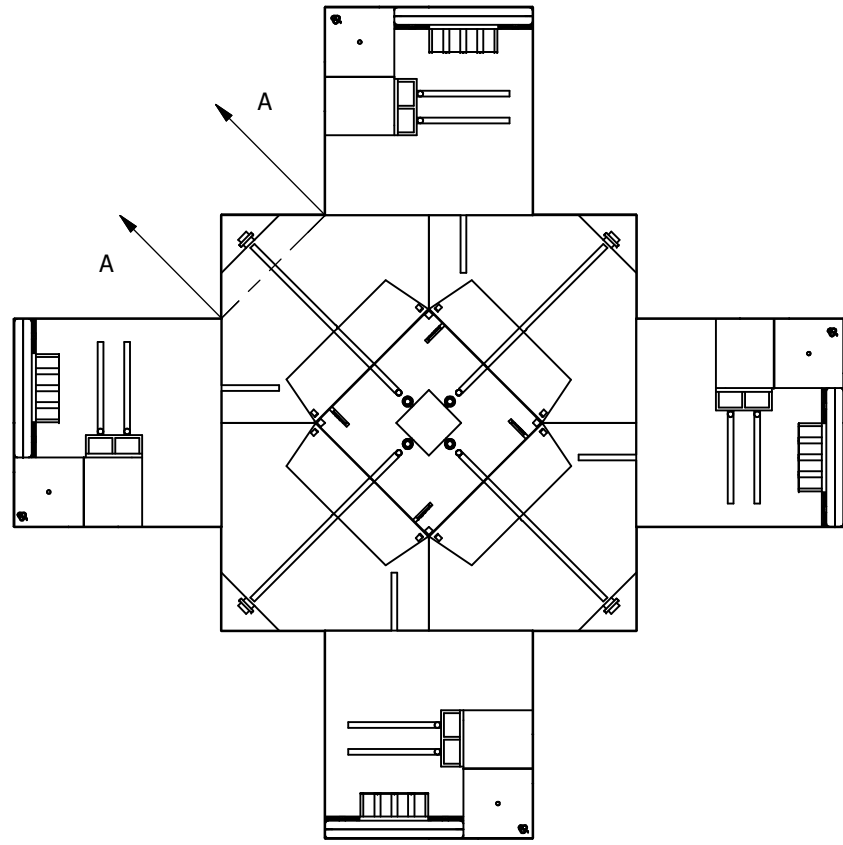
**-101** ROBOT COURSE, FINAL  
DESIGN PROJECT  
SCALE: 0.1:1

SIZE D	DWG NO 1	REV A
SCALE NOTED	FIRST-YEAR ENGINEERING PROGRAM	SHEET 2 OF 10

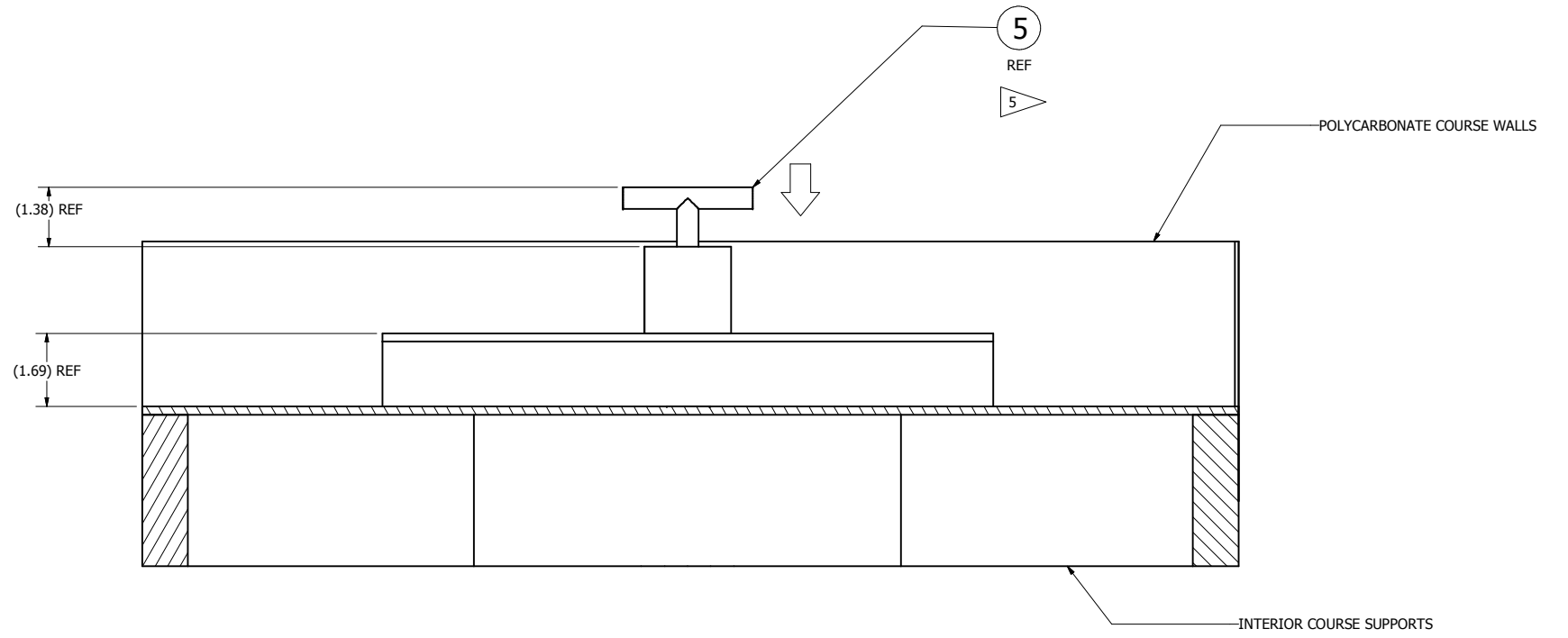


**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
 SCALE: 0.1:1  
 TOP VIEW

SIZE D	DWG NO 1	REV A
SCALE NOTED	FIRST-YEAR ENGINEERING PROGRAM	SHEET 3 OF 10

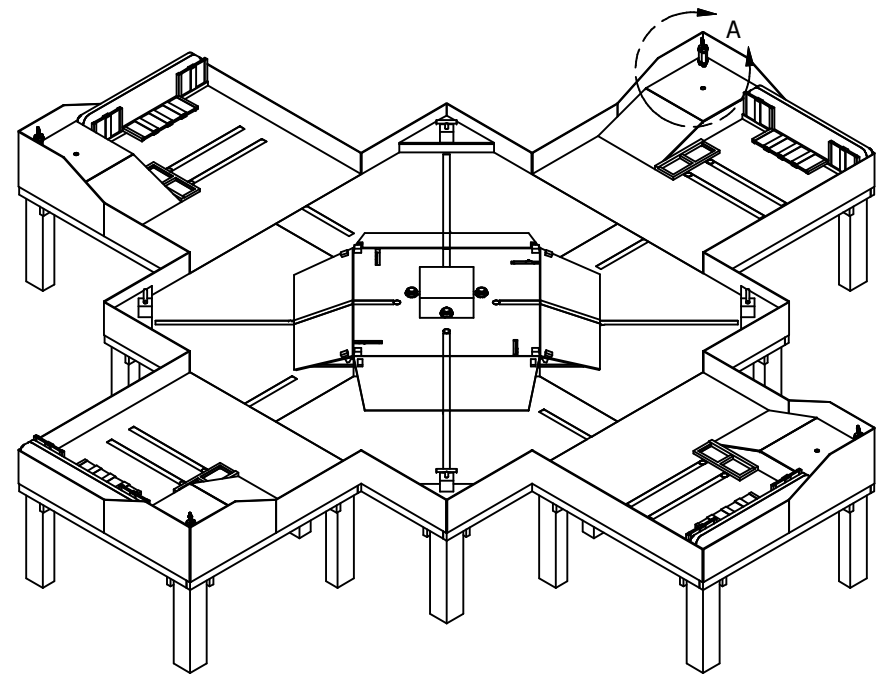


**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
 SCALE: 0.06:1  
 REFERENCE VIEW

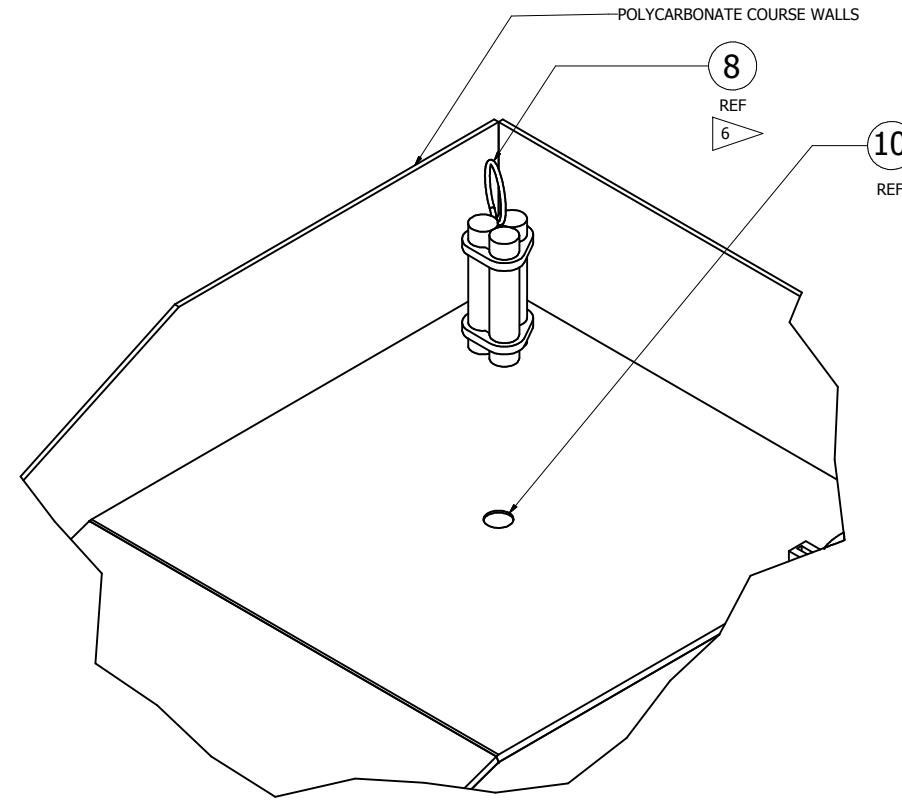


**-005** DETONATOR, ROBOT COURSE, FINAL DESIGN PROJECT  
 SCALE: 0.5:1  
 SECTION VIEW A-A

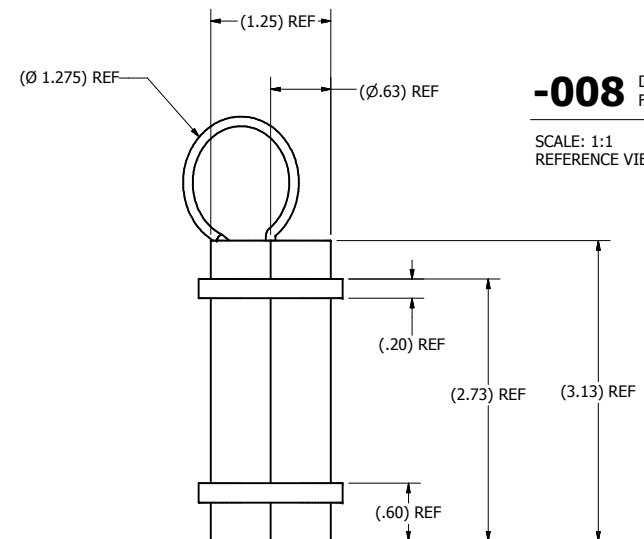
SIZE D	DWG NO 1	REV A
SCALE NOTED	FIRST-YEAR ENGINEERING PROGRAM	SHEET 4 OF 10



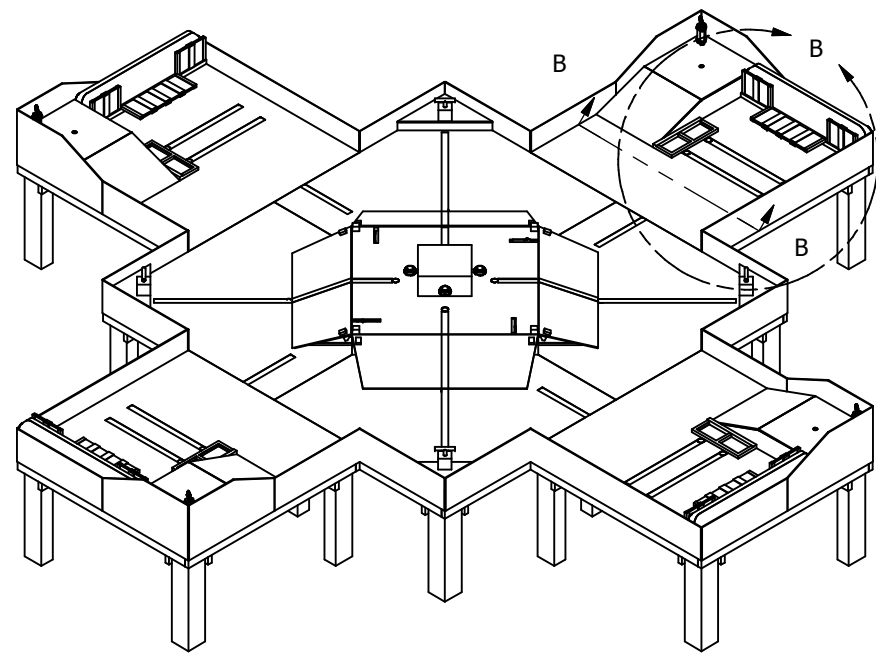
**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.07:1  
REFERENCE VIEW



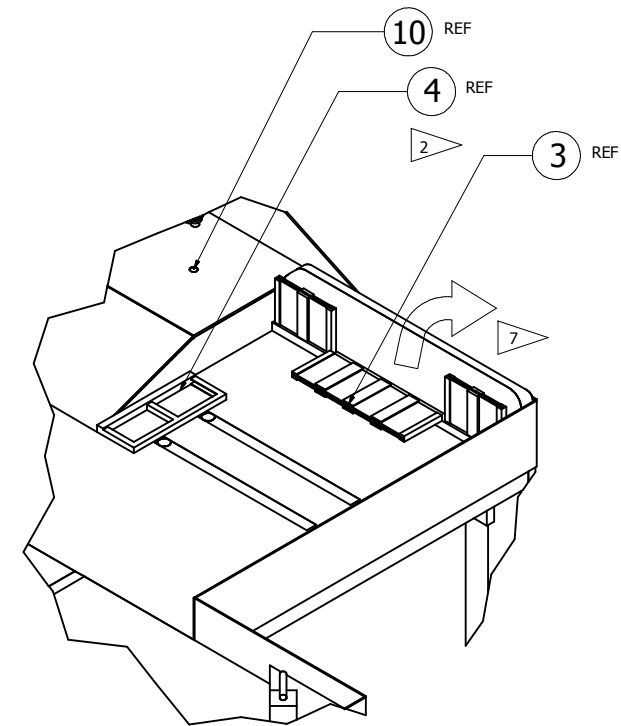
**-008** DYNAMITE, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.5:1  
DETAIL VIEW A



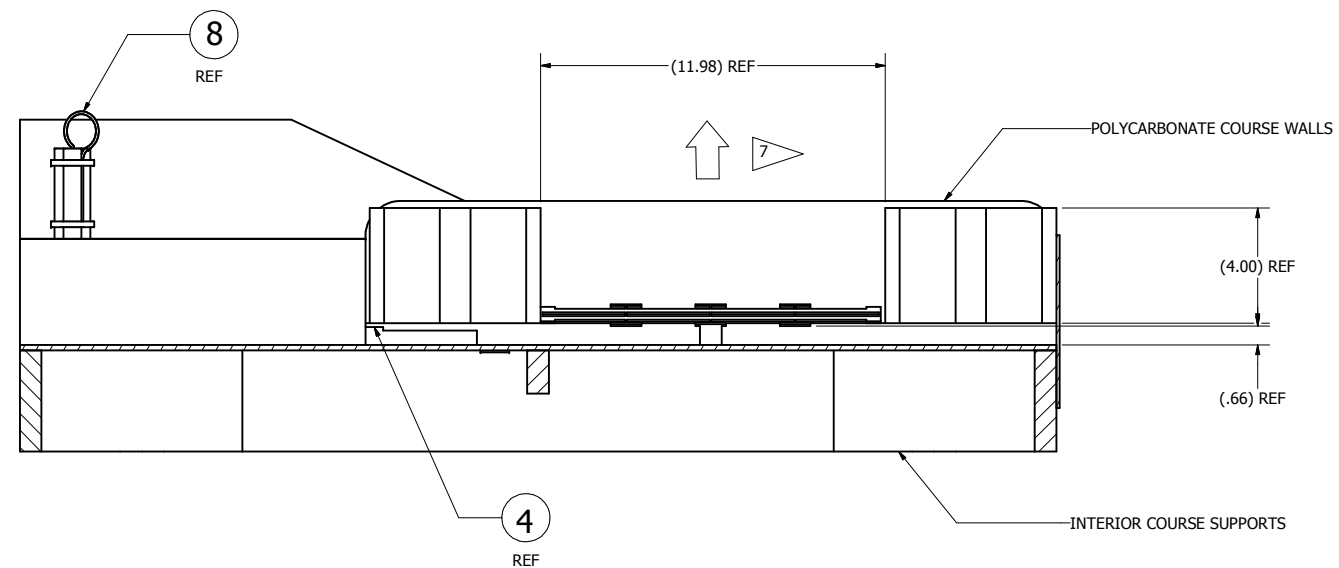
**-008** DYNAMITE, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 1:1  
REFERENCE VIEW



**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.7:1  
REFERENCE VIEW

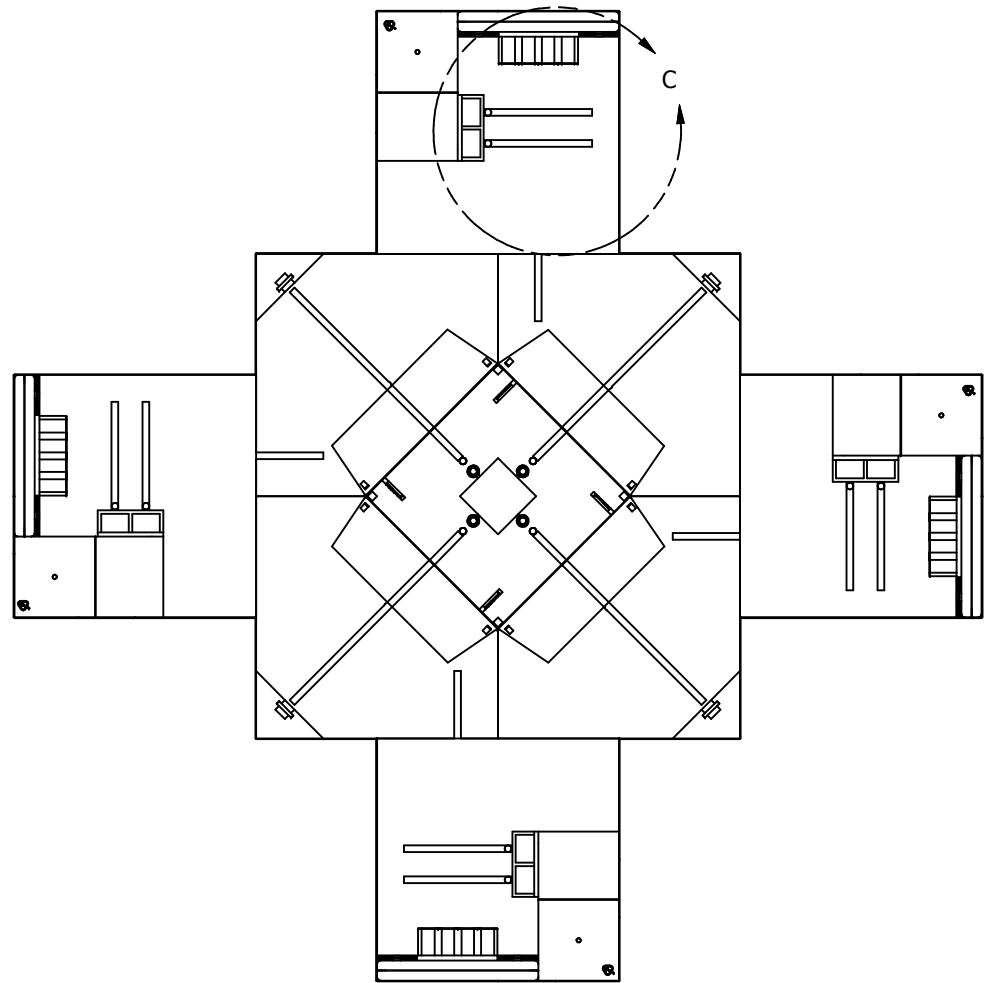


**-003** RETAINING WALL, ROBOT COURSE  
FINAL DESIGN PROJECT  
SCALE: 0.14:1  
DETAIL VIEW B

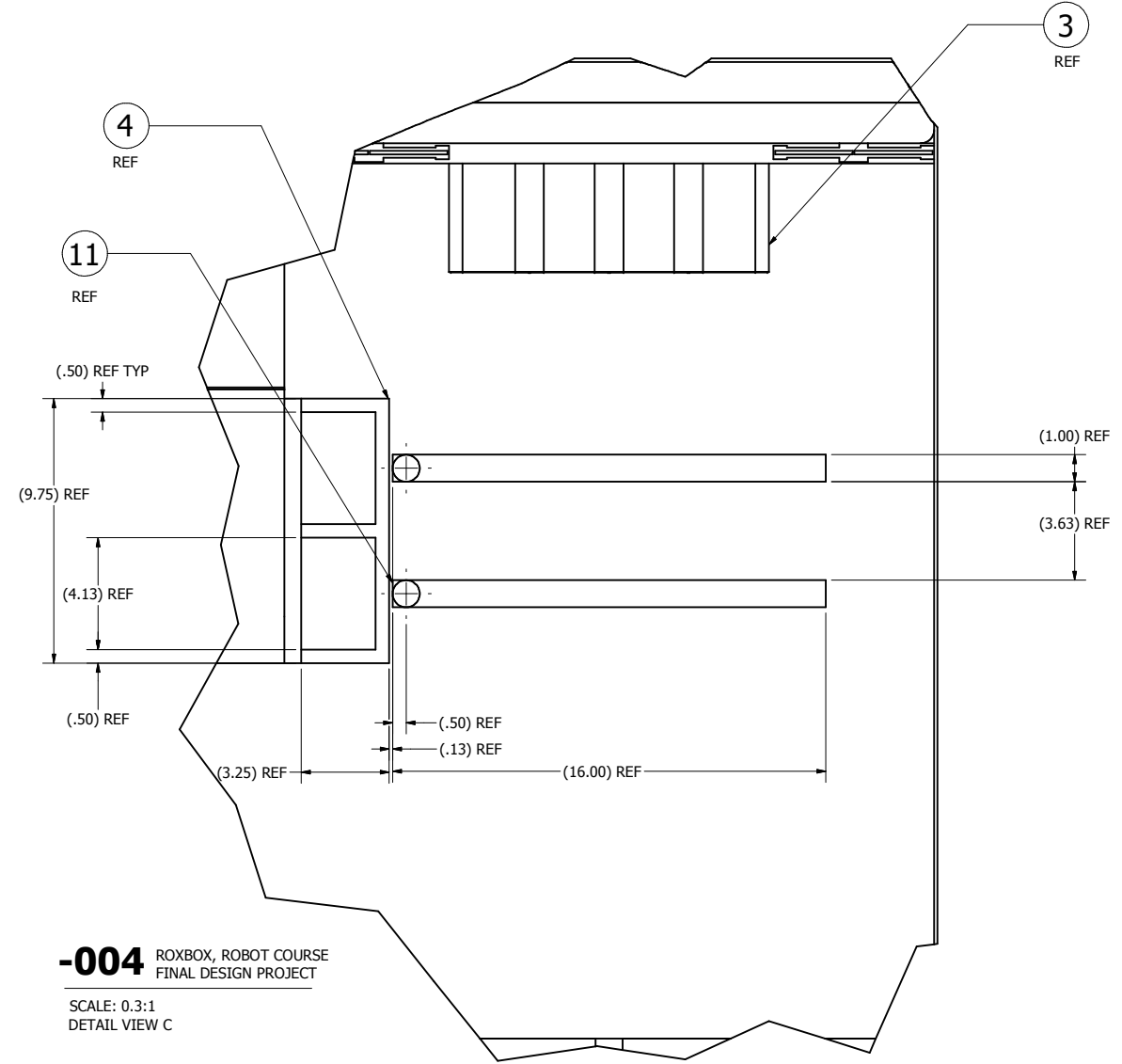


**-003** RETAINING WALL, ROBOT COURSE  
FINAL DESIGN PROJECT  
SCALE: 0.3:1  
SECTION VIEW B-B

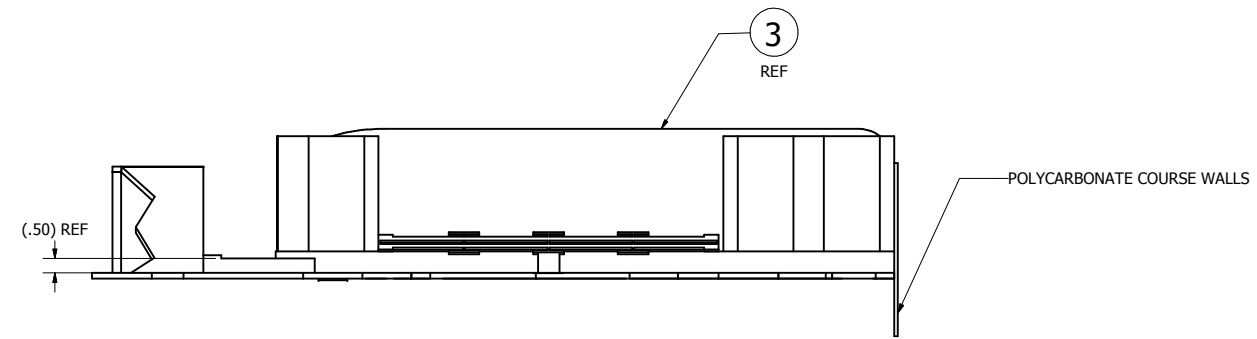
8 7 6 5 4 3 2 1



**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.07:1  
REFERENCE VIEW

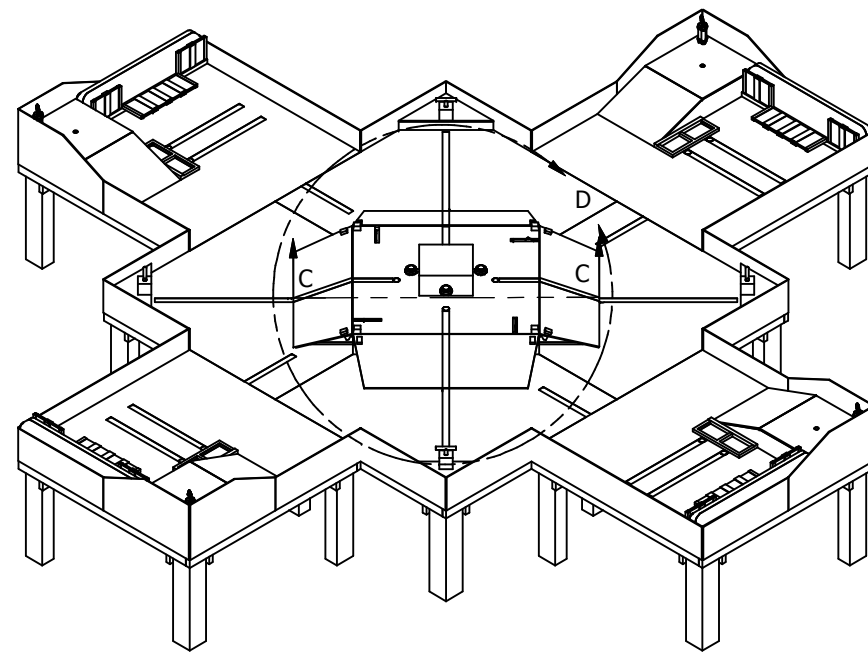


**-004** ROXBOX, ROBOT COURSE FINAL DESIGN PROJECT  
SCALE: 0.3:1  
DETAIL VIEW C

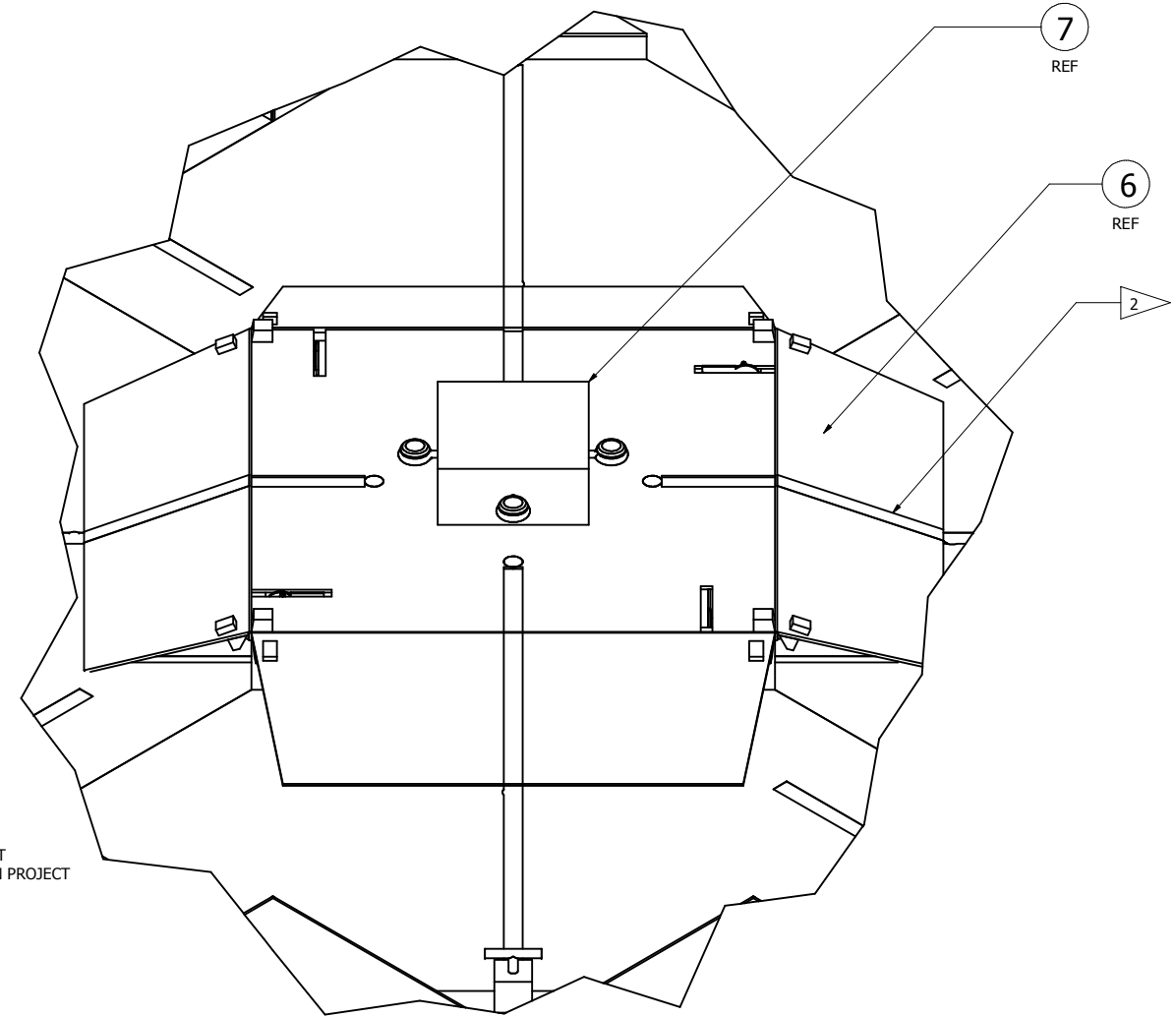


SIZE D	DWG NO 1	REV A
SCALE NOTED	FIRST-YEAR ENGINEERING PROGRAM	SHEET 7 OF 10

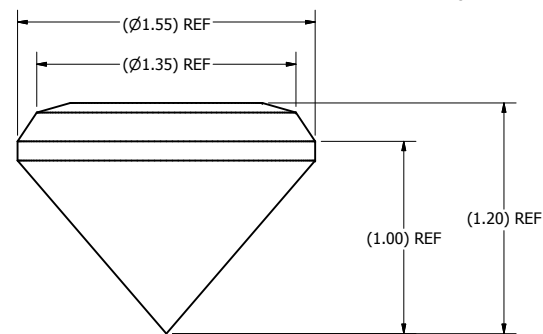
8 7 6 5 4 3 2 1



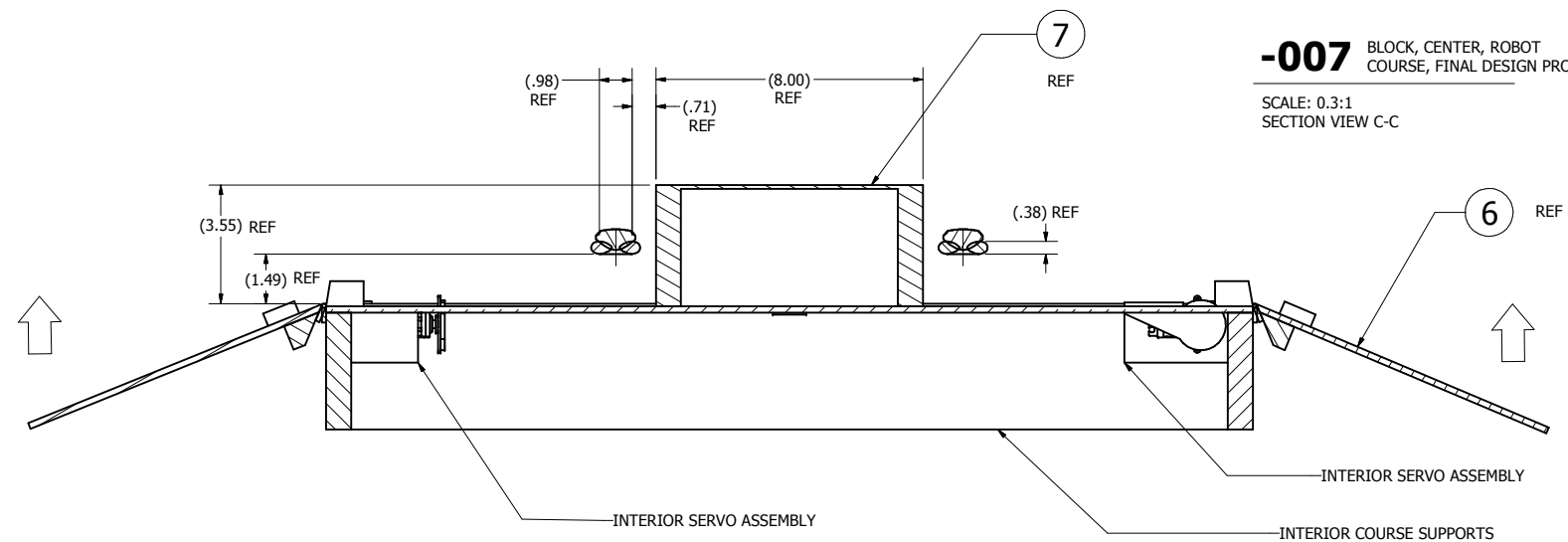
**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.07:1  
REFERENCE VIEW



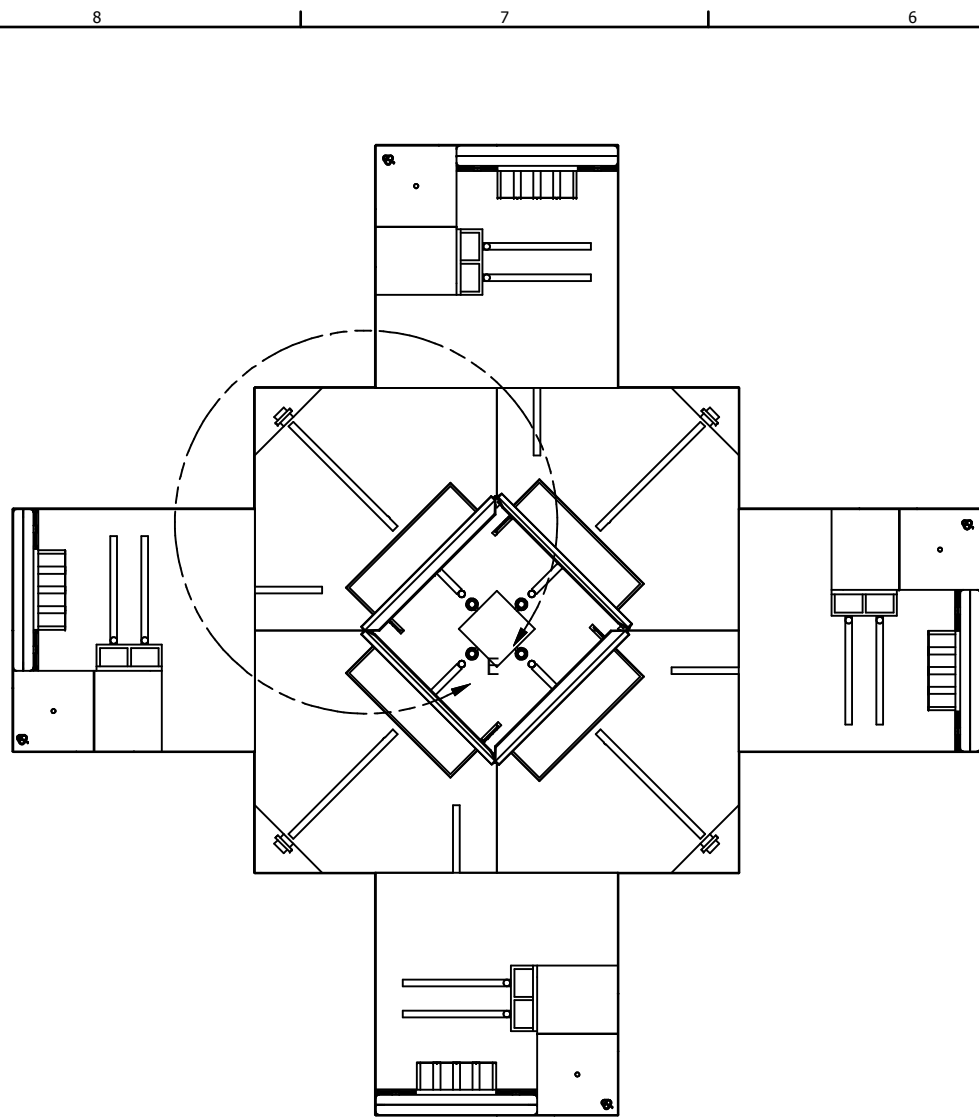
**-007** BLOCK, CENTER, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.2:1  
DETAIL VIEW D



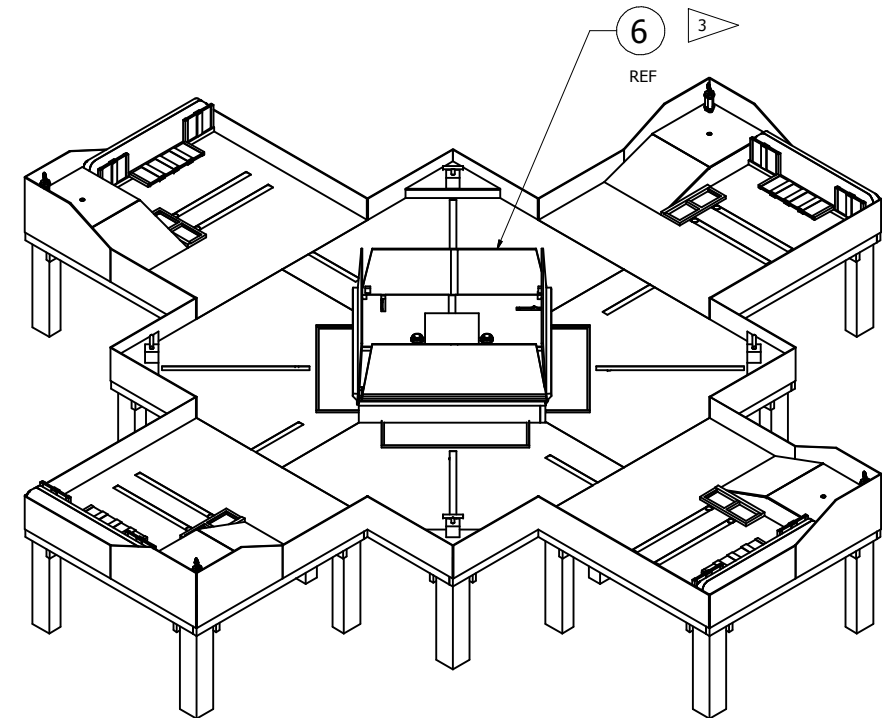
**-009** ORE, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 2:1  
REFERENCE VIEW



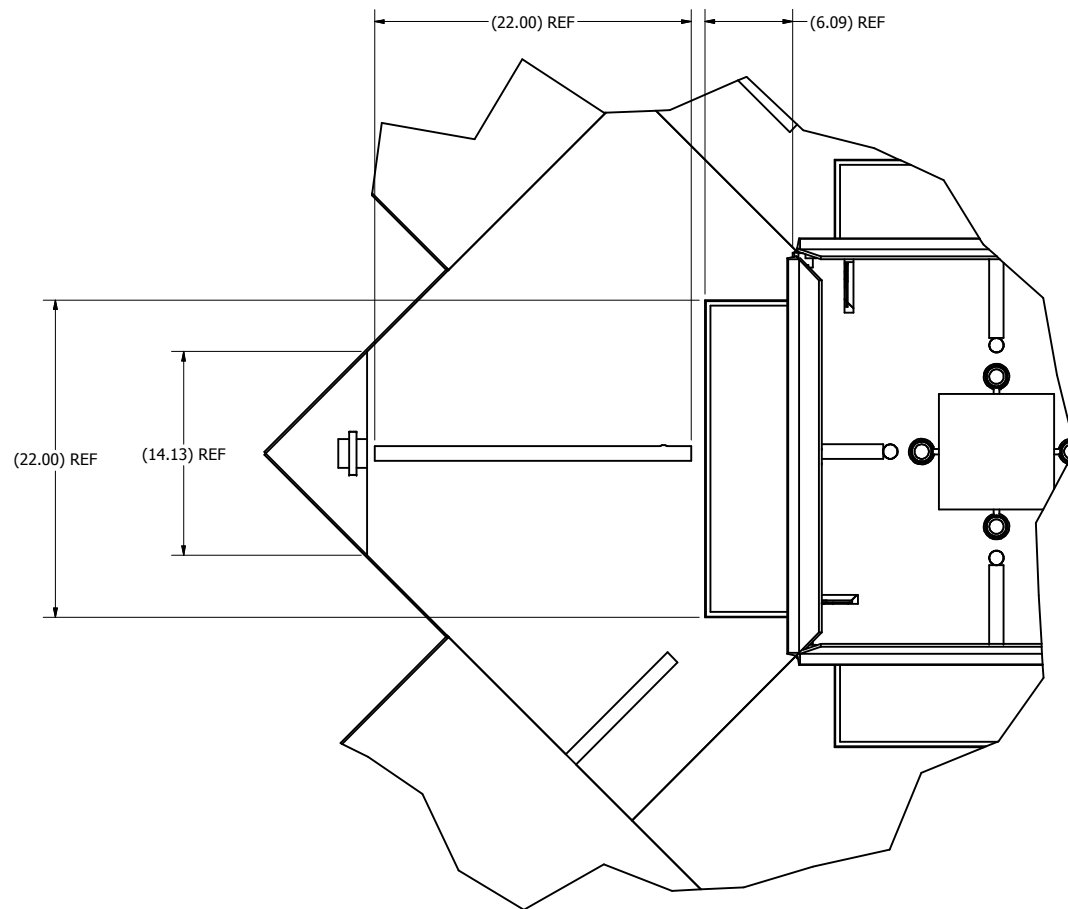
**-007** BLOCK, CENTER, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.3:1  
SECTION VIEW C-C



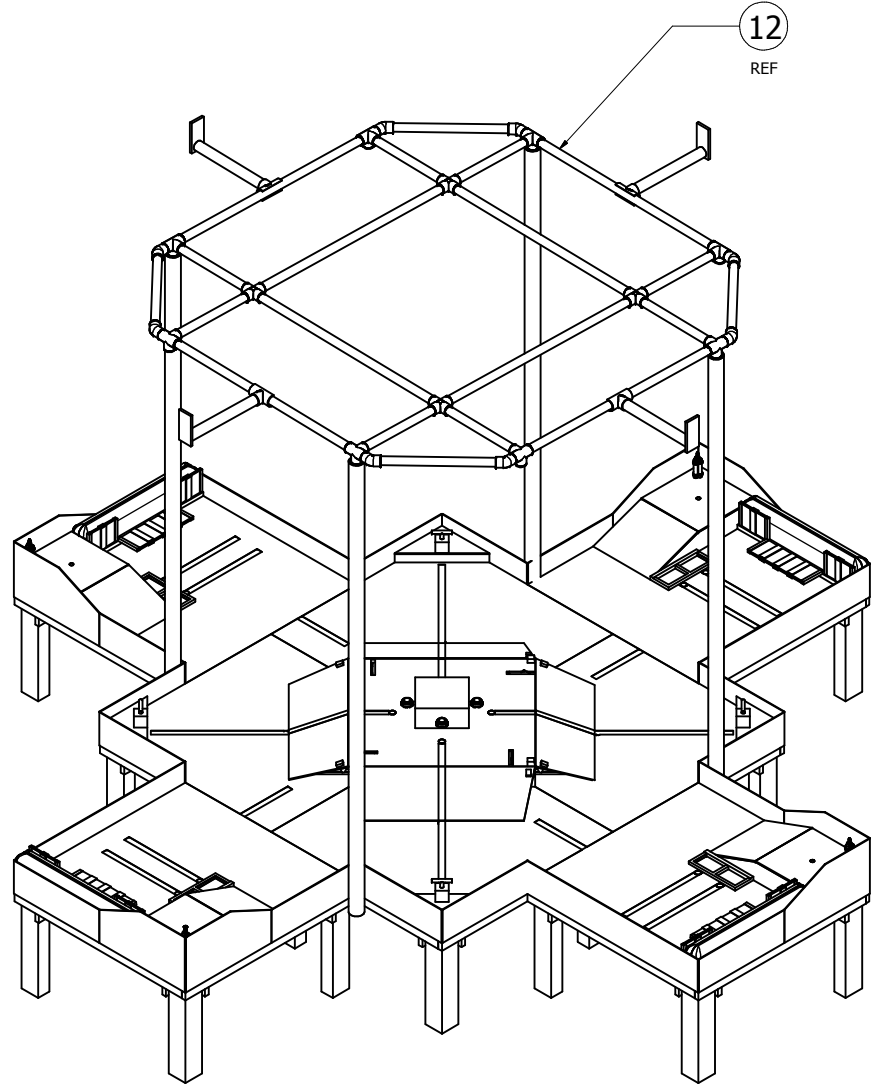
**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.07:1  
REFERENCE VIEW



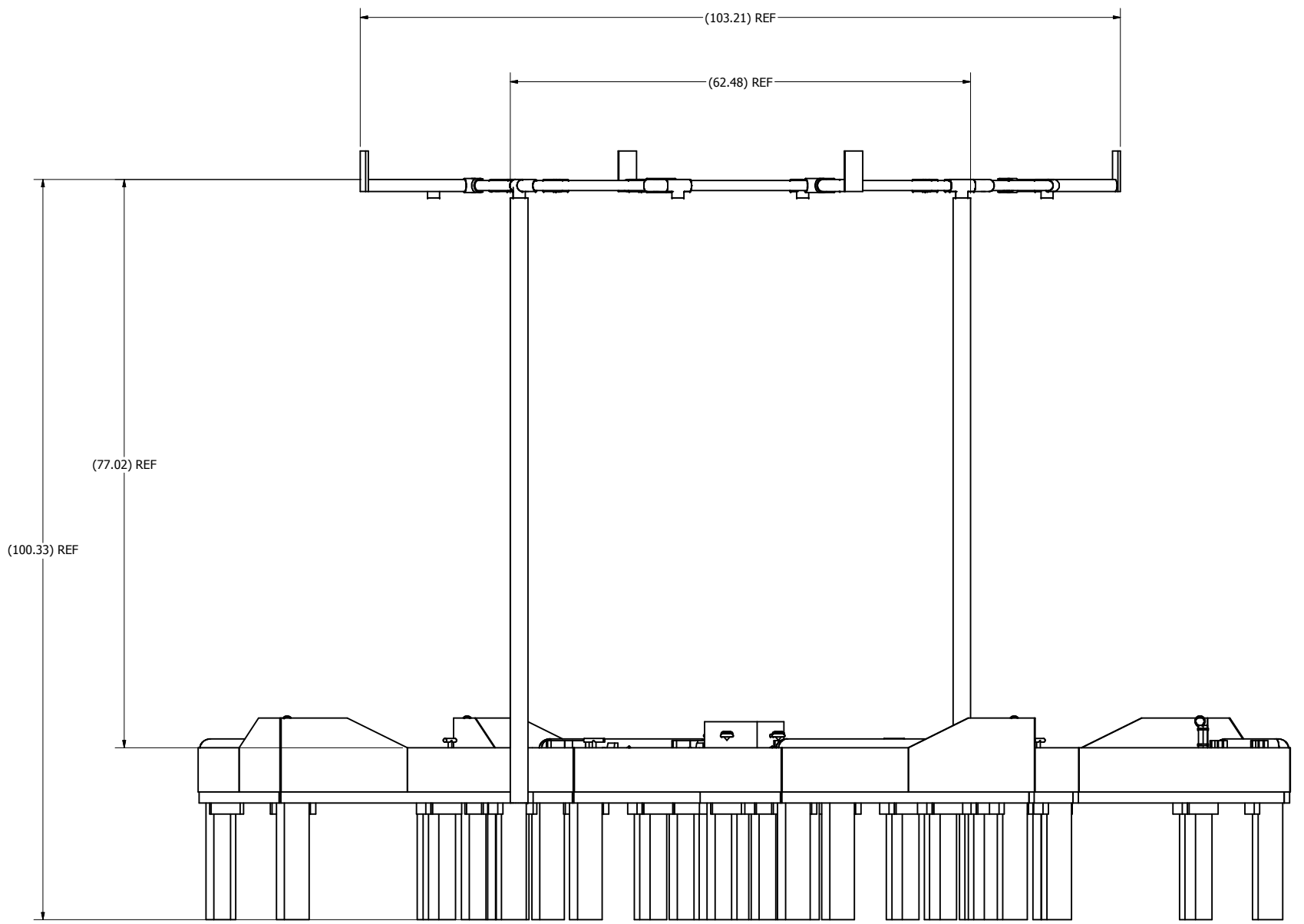
**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.07:1  
REFERENCE VIEW



**-006** DEBRIS, RAMP, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.15:1, ROTATED 45°  
DETAIL VIEW E



**-101** ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.7:1  
REFERENCE VIEW



**-012** NINTENDO WII REMOTE STAND, ROBOT COURSE, FINAL DESIGN PROJECT  
SCALE: 0.1:1, ROTATED 20°  
SIDE VIEW

SIZE D	DWG NO 1	REV A
SCALE NOTED	FIRST-YEAR ENGINEERING PROGRAM	SHEET 10 OF 10