



NOTES:

- Top view, NOT drawn to scale
- A, B, C, and D must be securely fastened to one another
- Details of A:
 - Staircase with 8 steps
 - Rise = 5", Run = 10" for each step
 - Height of staircase is 40" (8 x 5")
 - Length of staircase is 80" (8 x 10")
 - Width of staircase is 60"
 - Must be able to support 300 lbs with minimal flexing
 - Recommend ½ thickness for steps, made of hard wood
 - Painted wood walls underneath staircase
 - Sturdy railings capable of retaining a 300 lb robot should be on both sides of staircase
 - Safety "lip" or "edge" on both sides as well (can extend wood walls underneath 4" up to create lip)

- Details of B:
 - Staircase with 6 steps
 - Rise = $6 \frac{2}{3}$ " , Run = 10" for each step
 - Height of staircase is 40" (8 x 5")
 - Length of staircase is 60" (6 x 10")
 - Width of staircase is 60"
 - Must be able to support 300 lbs with minimal flexing
 - Recommend $\frac{1}{2}$ thickness for steps, made of hard wood
 - Painted wood walls underneath staircase
 - Sturdy railings capable of retaining a 300 lb robot should be on both sides of staircase
 - Safety "lip" or "edge" on both sides as well (can extend wood walls underneath 4" up to create lip)
- Details of C:
 - Raised platform
 - Height of ramp is 40"
 - Length of ramp is 60"
 - Width of ramp is 60"
 - Must be able to support 300 lbs with minimal flexing
 - Railings and walls from A and D should butt up against one another at corner Q
 - Railings and walls from A and B should butt up against one another at corner R
 - Additional railing (able to retain 300 lbs robot) and wall should be added between points S and T
 - Safety "lip" or "edge" underneath S-T railing as well (can extend wood walls underneath 4" up to create lip)
 - A 3 foot high door (standard width) with a round door knob should be added to the S-T wall under the raised platform
- Details of D:
 - 40 degree ramp
 - Height of ramp is 40"
 - Length of ramp is 47.7"
 - Width of ramp is 60"
 - Must be able to support 300 lbs with minimal flexing
 - Painted wood walls underneath staircase
 - Sturdy railings capable of retaining a 300 lb robot should be on both sides of staircase
 - Safety "lip" or "edge" on both sides as well (can extend wood walls underneath 4" up to create lip)
 - Rubber mat covering ramp for traction

ROBOT ARENA (20 feet x 20 feet)

