**Skills Canada Mobile Robotics**
**Calgary 2027**
**Competitor Questions and Responses Document**

**September**

**Sept.Q1:**
Q: We have ordered the pucks from the link provided, but received hard rubber pucks (not the softer foam pucks). What should we do?

R: We are using a black puck, made from soft PU foam, within the following measurements and tolerances:
Diameter: 72-74 mm
Height: 24-26 mm
Mass: 19-21 g
Compressability: 10 N of force with a finger on the top surface of the puck creates an approximate depression of 3 mm.

It is the team's responsibility to ensure their robots are capable of using pucks within those tolerances.

We do understand there are numerous different options for purchasing these, please make sure to note the size and material. For more guidance, or to ensure you are using the correct ones, please reach out to your NTC member.

Unfortunately, this is something we are aware of. We are actively compiling a list of links of pucks. Should you need some help determining which ones are best to purchase for practice, please reach out to your Provincial NTC member.

**Sept.Q2:**
Q: Can we have access to the CAD files of the court?

R: At this time, the NTC has decided not to share the CAD/Fusion files of the court. We feel Appendix A is sufficient for all intents and purposes.

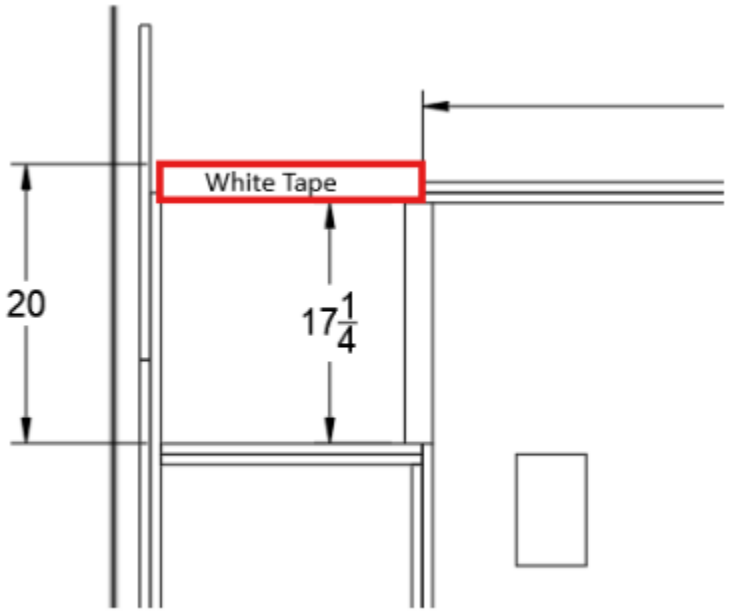
**Sept.Q3:**
Q: We noticed a contradiction in the scope regarding the scoring of the barrels. Section 5.2.3.2. states "A barrel counts for barrel points if it is fully supported by the floor and all points of contact with the floor are completely within a barrel zone OR is fully supported by a barrel that

counts for barrel points." while Section 6.4.1.2. states "Barrels in contact with a robot or other game piece will not be considered freestanding." What is the official rule on barrel scoring?

R: Barrels will count for barrel points as stated in Section 5.2.3. They are permitted to be in contact with other game pieces, so long as they are fully supported by the court floor and all points of contact with the floor are within the barrel zone, or fully supported by a barrel that counts for barrel points. Barrels in contact with a robot do not count for barrel points (as per 5.2.3.3.)

**Sept.Q4:**
Q: Should there be a tape line indicating the end of the transfer zone? White with black or Painter's tape?

R: Yes. There should be a strip of 2" white duct tape 17 ¼" from the transfer zone wall. The inside of the tape indicates the edge of the transfer zone. See diagram:




**Sept.Q5:**
Q: Are there restrictions for where the barrel containing a clown can be for the clown to count for points? For example, could we place the barrel inside the transfer zone? Or be holding it on our robot?

R: To qualify for clown points, a clown and its containing barrel must be completely in the team's coral (tele-op zone). The barrel or any supporting game pieces may not be in contact with a robot.

**Sept.Q6:**
Q: Can a team unclip the leash during a match?

R: No, must stay clipped the whole time.

**Sept.Q7:**
Q: How are bulls in the Transfer zone scored?

R: They are counted with the Tele-Op bulls.

**Sept.Q8:**
Q: In section 6.5.1, it says that clowns must be in a single barrel for clown points but below it seems to allow clowns to be in 2 barrels. How is a clown that is partially in two barrels scored?

R: As per 6.5.1.1.1 “Clowns partially in 2 barrels will qualify for only one (1) point.”

**Sept.Q9:**
Q: How are the barrel zones marked on the court?

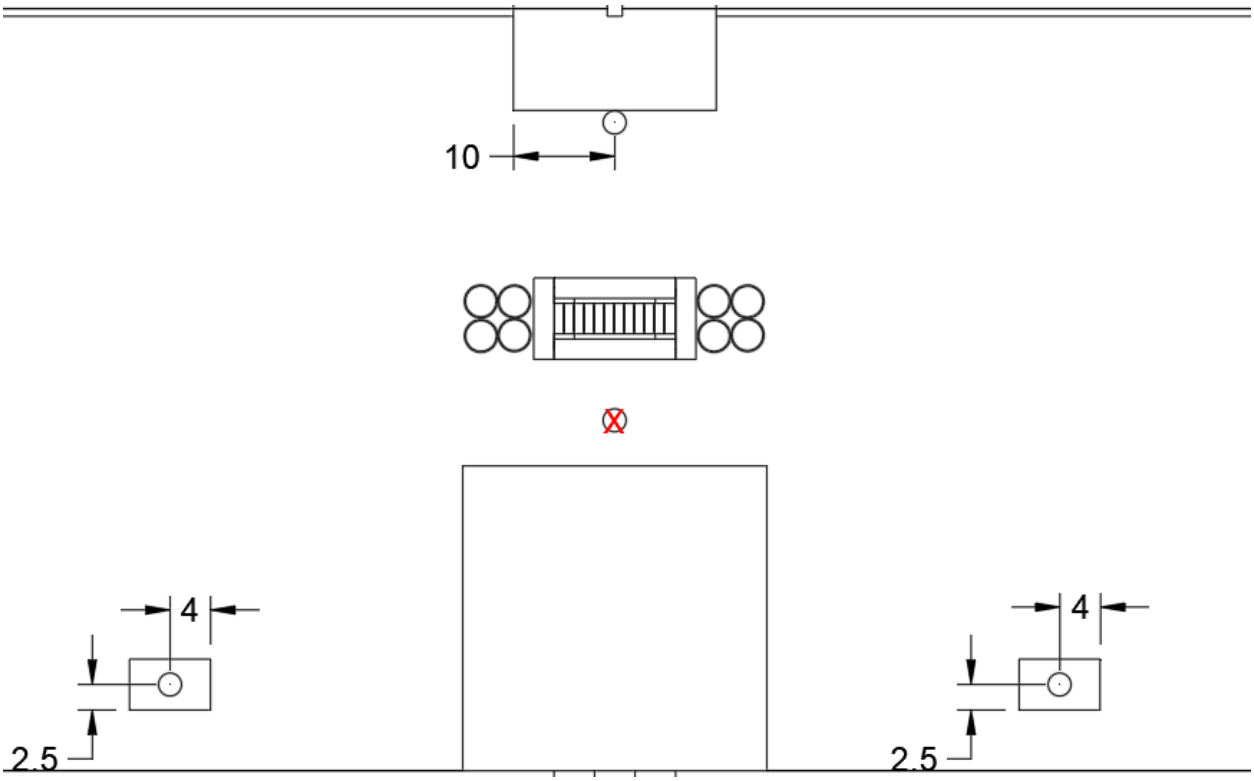
R: The whole barrel zone will be Blue painter's tape (BEAUTITONE Blue Painter's Masking Tape - 36 mm x 55 m), available here: https://www.homehardware.ca/en/blue-painters-masking-tape-36-mm-x-55-m-3-pack/p/1670133?attributionToken=pQHwpAoLCLrnu9QGEOLHxUIQARokNmQxNzk0NDktMDAwMC0yNWQ4LWE0MDUtZDRmNTQ3ZWZkZTJjKiQ4MWU5OGM4Yy02YjNmLTQ5YWMtYWZhOS1iMTVjOTY3OTYyODYyLJD3sjCOvp0V1LKdFcLwnhWc1rctn9a3LajIqi3sz504iN-pONLu7TiblaQxOg5kZWZhdWx0X3NlYXJjaEgBWAFgAWgBegJiaQ

**Sept.Q10:**
Q: How far in are the posts on the transfer zone fence?

R: 2", from the end of the fence to the inside of the post.

**Sept.Q11:**
Q: What are the exact starting locations of the clowns?

R:




**Sept.Q12:**
Q: The steer head is wobbly in the hole, any suggestions?

R: Fasten a 2x2 directly under the top of the steer platform crossing both boards. Screw it into the post and onto the top of the platform.

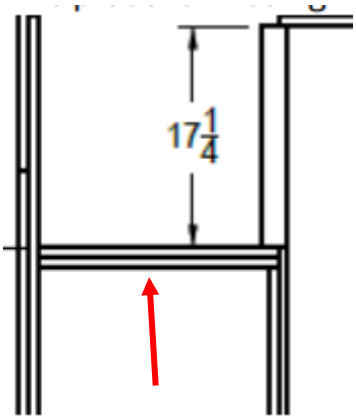
**Sept.Q13:**
Q: There is an extra clown in the middle of the court in the first graphic in appendix A. Is that supposed to be there?

R: No. Just ignore it. There are only 3 clowns on each side.

**Sept.Q14:**
Q: What is the starting configuration of the bulls in the corral?

R: They will be centered on the barrel zone in the center of the court.

**Sept.Q15:**
Q: This piece is missing in the cut list, how long is it?




R: It should be 18 3/4".

**Sept.Q16:**

Q: How long is the leash?

R: 6 ft