OID Site Layout







- **TI** Static Technical Inspection of Bot for safe operation and compliance with paper
- **Q** Que for Bots waiting to enter the track
- A Stationary Test of E-Stop Operation, Tracking System and Bot warning devices
- **B** Dynamic Test of E-Stop Operation and Tracking System on moving Bot
- C Start Track Timer
- **D** Test Bot navigation, compliance with RDDF and sensing through obstacle field
- E Measure Bot transit time from point C, through obstacles, to point E
- **F** Assess Robot's reaction to a moving obstacle
- G Operate E-Stop (pause and disable), retrieve data, remove vehicle from track



DGC Rule 1.4 - Route Description:

The Route will include surfaced and un-surfaced roads, trails, and off-road areas. Man-made and natural obstacles are to be encountered—both above and below the surface of the average terrain. Examples of obstacles include shallow and deep washboards, ditches, open water, rocks/boulders, underpasses, construction, and other vehicles. All obstructions on the route can be either accommodated or avoided by a commercial 4X4 pick-up truck...



Dirt Hills

Purpose: This obstacle configuration tests the Bots ability to negotiate rough terrain

in association with



in association with

Purpose: This obstacle configuration tests the Bots ability to detect, avoid and bypass an obstacle



elostedO rs0

car

in association with

Purpose: This obstacle configuration tests the Bots ability to detect, avoid and bypass other static vehicles on the road

Steep Hill

association wit

Purpose: This obstacle configuration tests the Bots ability to negotiate a steep hill, as will be encountered on the Course. Vehicle will negotiate hill perpendicular.

Sand Trap

n association with

Purpose: This obstacle configuration tests the Bots ability to maintain traction while negotiating through the Course

<mark>Djich</mark>

n association with

Purpose: This obstacle configuration tests the Bots ability to negotiate or avoid a Ditch, as will be encountered on the Course

Cattle Guard

association wit

Purpose: This obstacle configuration tests the Bots ability to negotiate a cattle guard, as will be encountered on the Course



<u>Overpass</u>

Purpose: This obstacle configuration tests the Bots ability to negotiate through a narrow, short overpass as will be encountered on the Course

10 ft

association with

10 ft

Boulders

Purpose: This obstacle configuration tests the Bots ability to negotiate a route bounded by tight boulders

association with

elosied ns gnivell

Car Silhouette

in association with

Purpose: This obstacle configuration tests the Bots ability to detect the sudden presence of a vehicle to the front and stop to prevent hitting the obstacle

Washboard

Purpose: This obstacle configuration tests the Bots resiliency and ability to negotiate an off-road "washboard surface"

association with