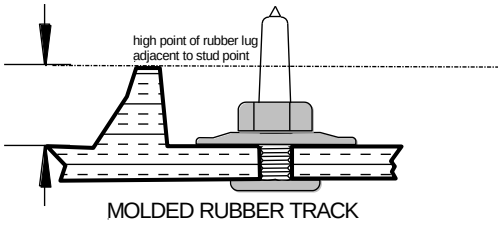
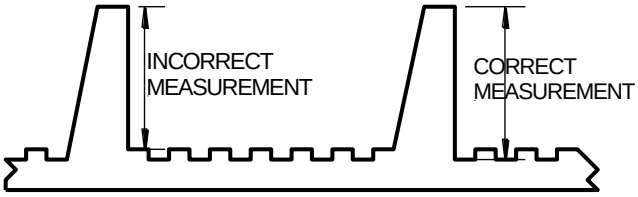
MEASUREMENT OF TRACK & TRACTION DEVICES

In all forms of racing, there are traction device limitations including the maximum height above the "adjacent rubber lug" or "high point of the track" as shown.

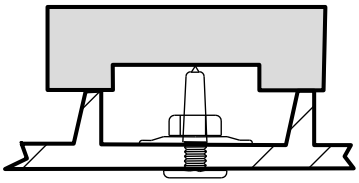
Track lug height (flat of track to highest point of lug)





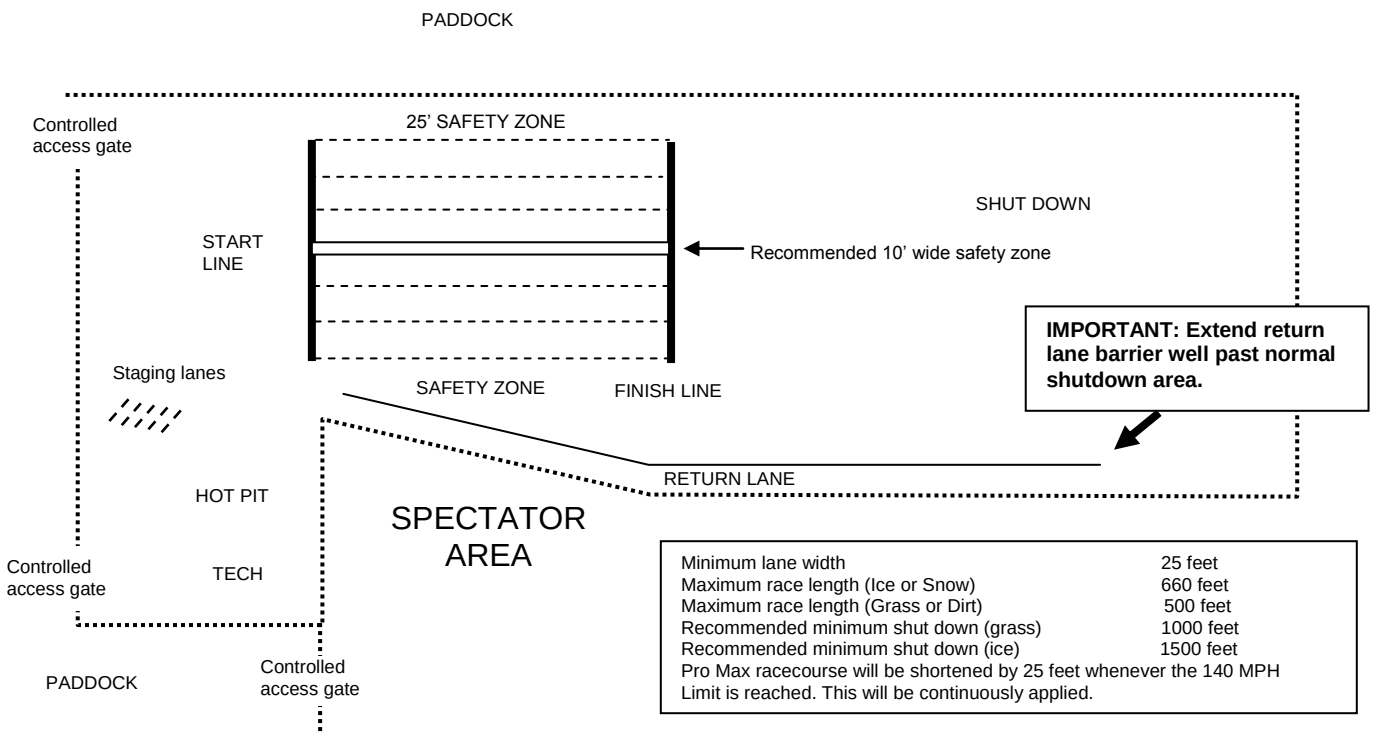
Correct lug measurement is taken from the highest point of the highest lug to the lowest point of the flat-of-the-track on the on the outside surface (as shown).

Stud gauges are used to measure stud height as shown.



DRAG RACING RECOMMENDED COURSE

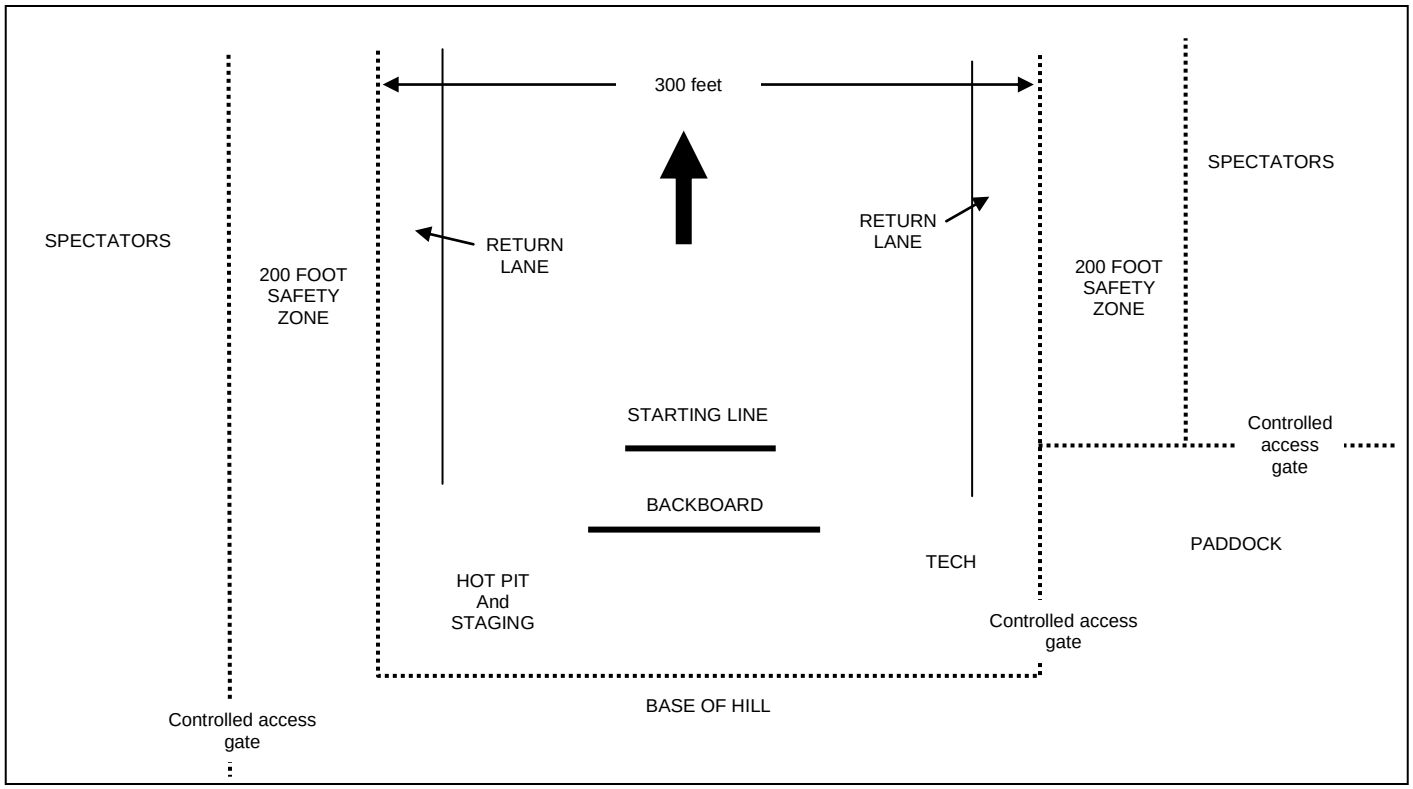
(FOR 2 LANES TO 6 LANES) (NOTE DIFFERENT DISTANCES FOR GRASS AND ICE.)



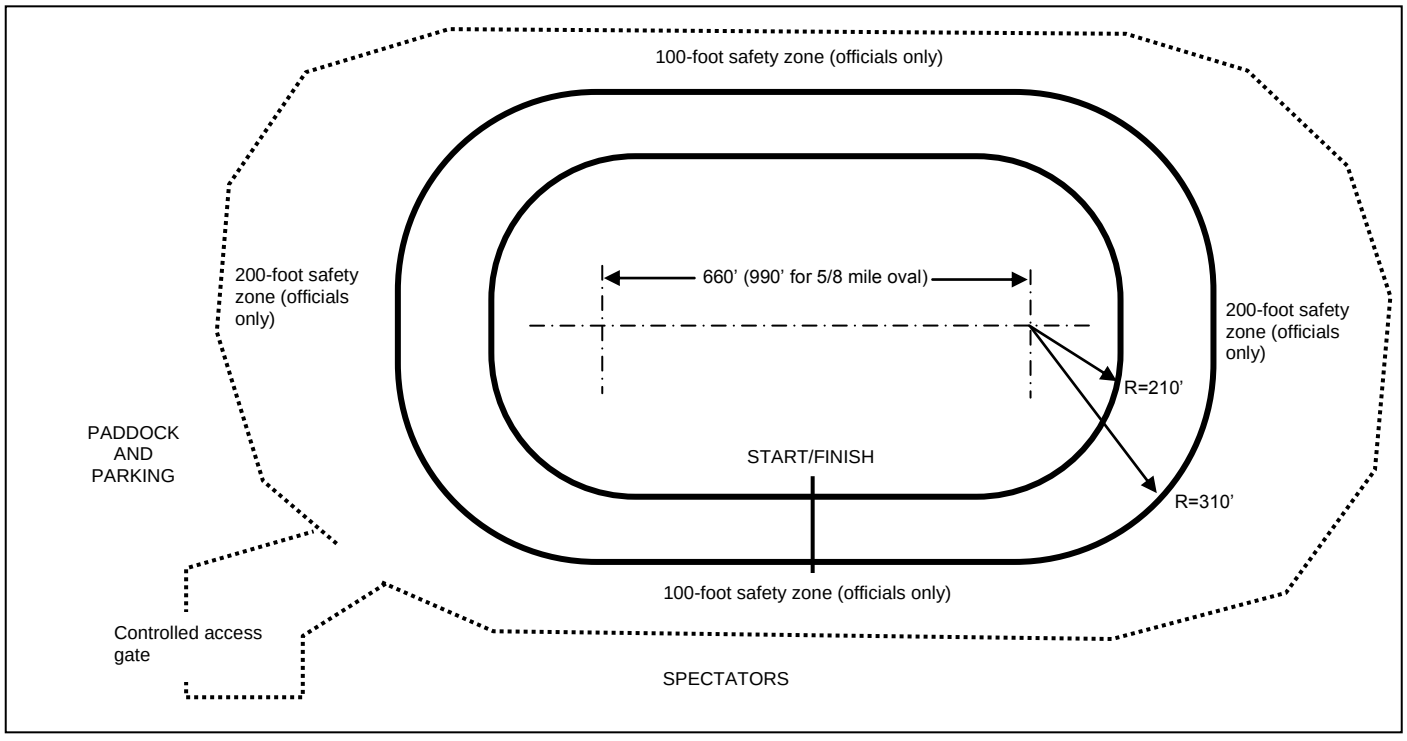
Minimum lane width	25 feet
Maximum race length (Ice or Snow)	660 feet
Maximum race length (Grass or Dirt)	500 feet
Recommended minimum shut down (grass)	1000 feet
Recommended minimum shut down (ice)	1500 feet

Pro Max racecourse will be shortened by 25 feet whenever the 140 MPH Limit is reached. This will be continuously applied.

HILLCLIMB RECOMMENDED COURSE

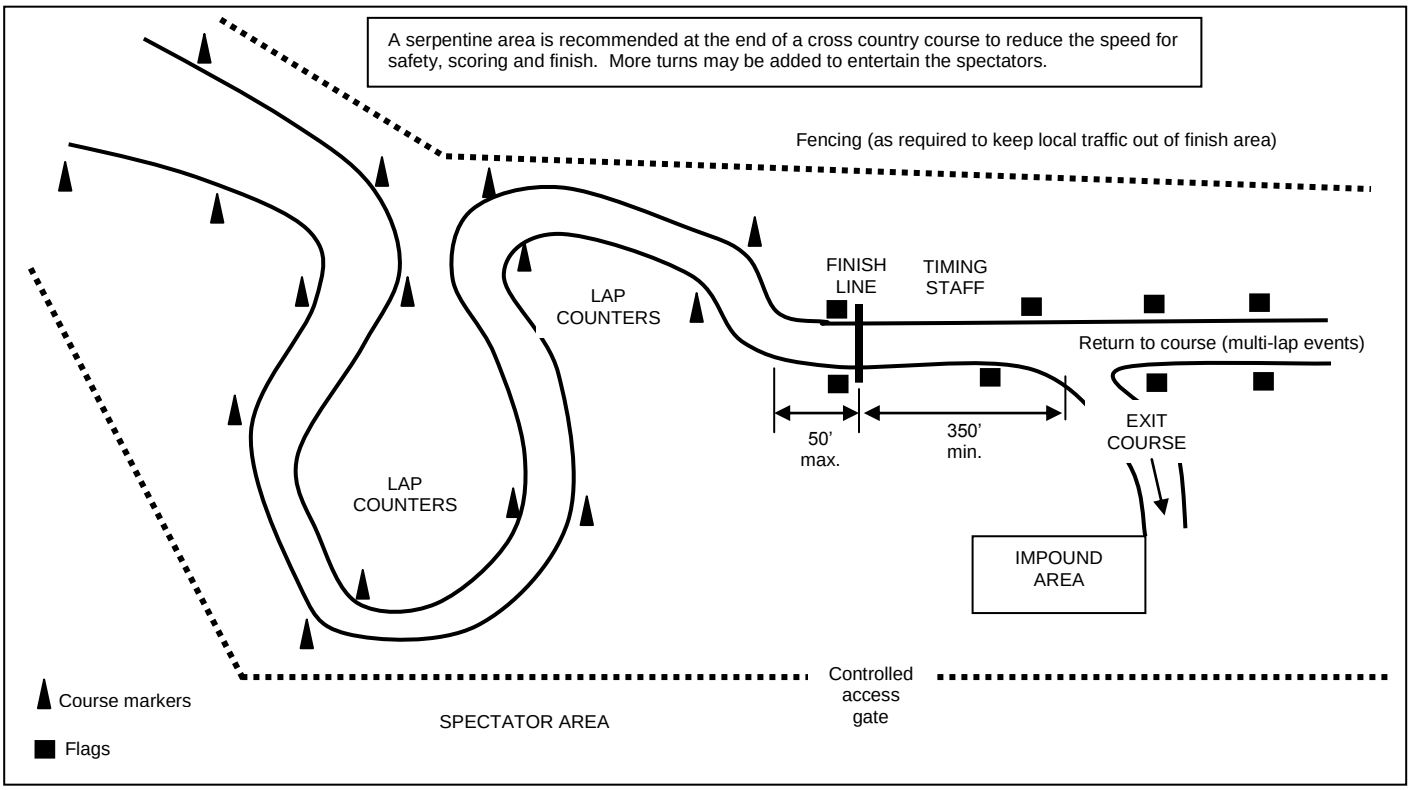


OVAL SPRINT RECOMMENDED ½ MILE COURSE



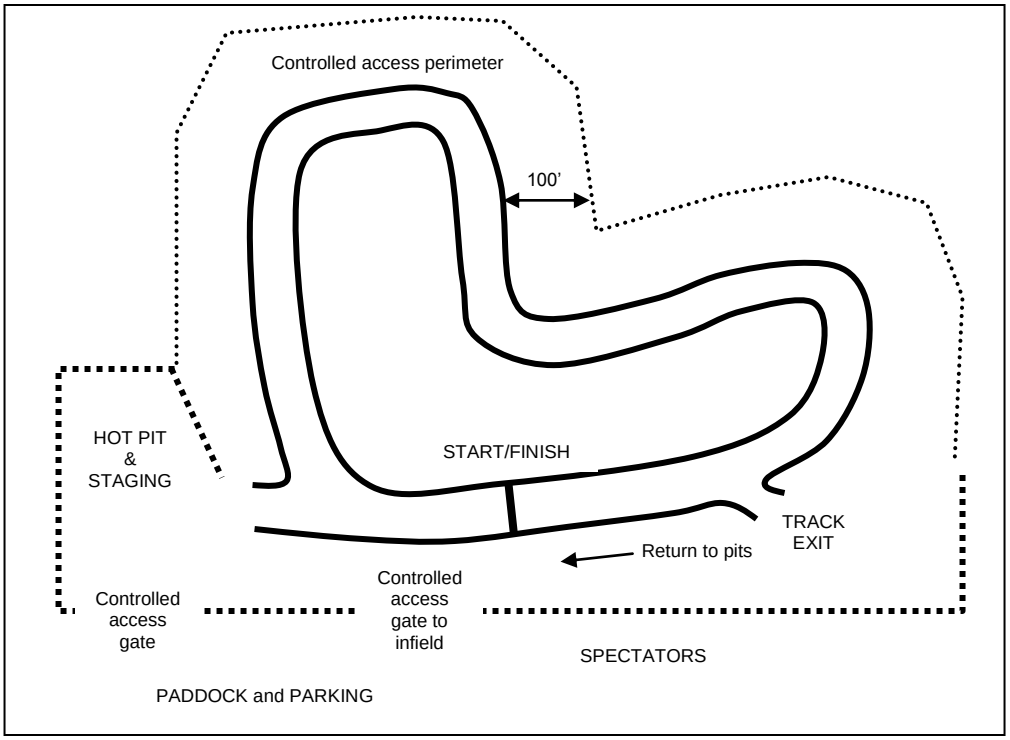
CROSS COUNTRY RECOMMENDED COURSE

(SPECTATOR AREA AND FINISH LINE SERPENTINE LAYOUT)

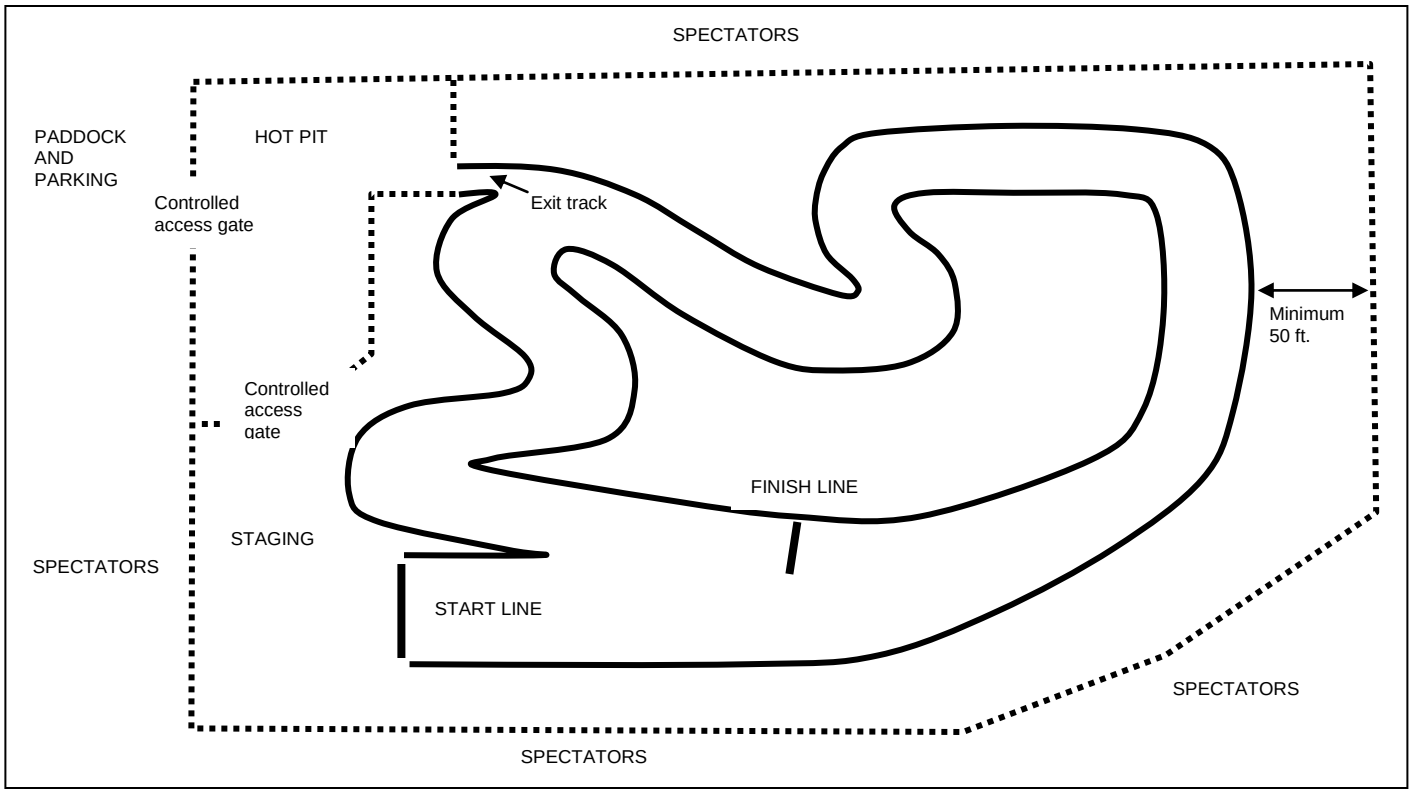


ICE LEMANS RECOMMENDED COURSE

1. The course is laid out on an ice surface with a series of left and right turns. The length of the course is between ½ mile and 1 mile.
2. Each race consists of multiple laps around the course. Each race begins with a standing start with the snowmobiles side-by-side on the starting line. There should be 5 feet of space for each snowmobile on the starting line.
3. There will be a secured safety zone of at least 100 feet around the course. The safety zone will be fenced and/or constantly monitored by race officials to keep spectators and other people out.
4. Hot pit and staging area must be fenced and secured. Only drivers and authorized crewmembers allowed. All persons in this area must have signed the proper release and waiver.
5. Paddock area is open to all, but pit passes may be required.
6. Center of track is accessible only to authorized persons, corner workers, race officials and press (all must sign proper release and waiver).
7. There shall be a controlled access point to the track for the ambulance and for competitor's snowmobiles.



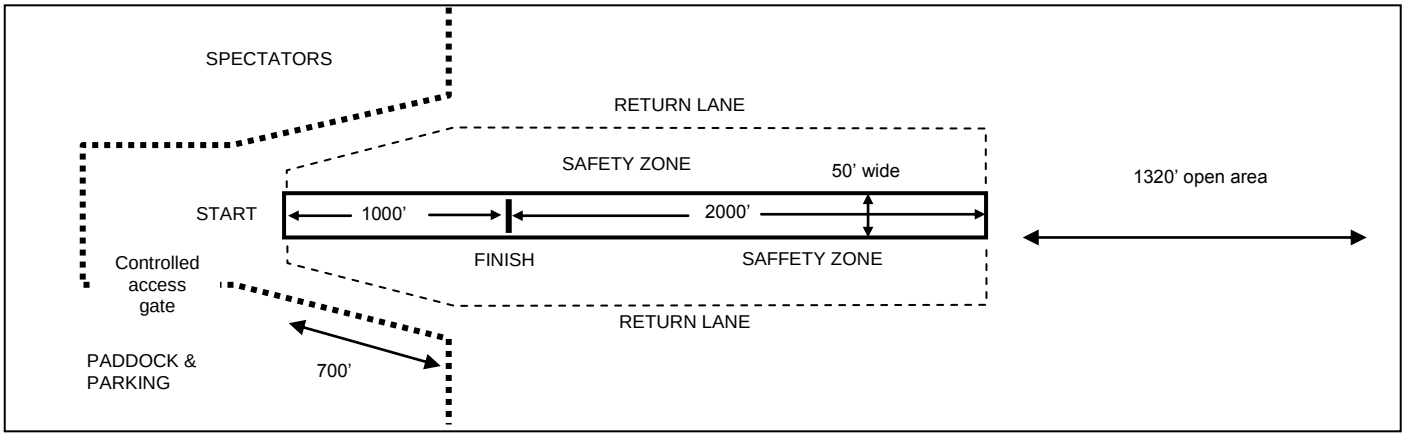
SNO-CROSS RECOMMENDED COURSE



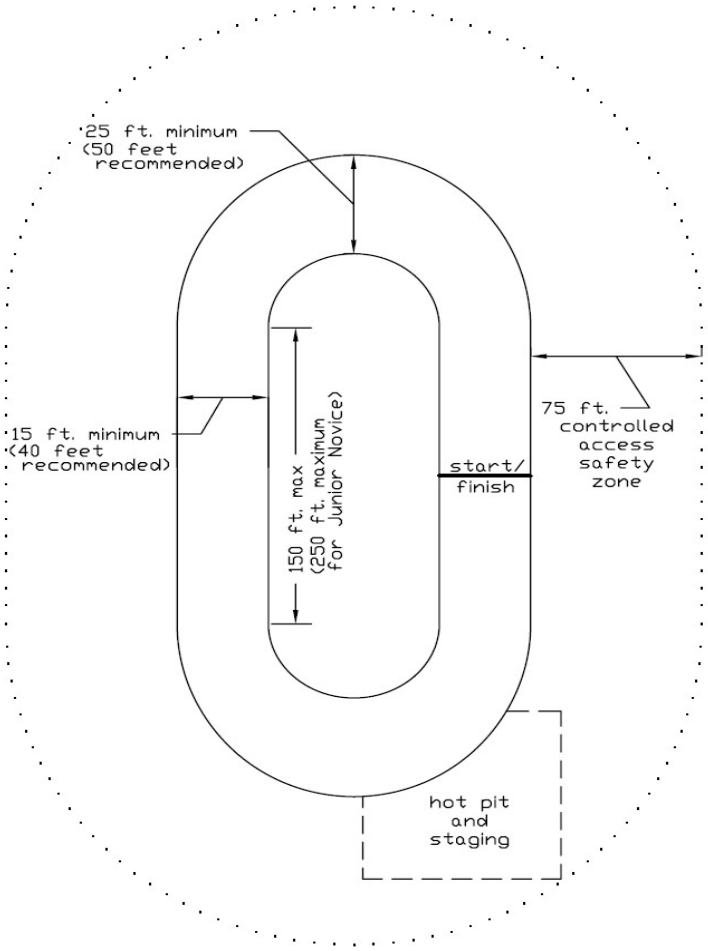
1. Track length should be between ¼ mile and 1 mile.
2. Starting area should be off to the side of the course. The run to the first corner should be as long and wide as possible. Any jumps in this area must be as wide as the starting line and must not have a blind landing area. Drivers must be able to see the landing area with sufficient time to avoid collision. The starting area should be groomed often.
3. The first corner should be no sharper than 90 degrees.
4. The spectator barrier should be a minimum of 25 feet from any point on the track. Minimum distance should be 50 feet around the outside of corners and other critical areas. A double barrier system should be used (i.e. hay bales around the outside edge of the track with a buffer zone between the bales and spectator fence).
5. It is recommended that jumps be "table tops". All jumps should be at least as wide as the racetrack. Any double or triple jumps should be on slower sections of the track.
6. The track should be groomed often, especially when it becomes a "one line" track.

SPEED RUN/RADAR RUN RECOMMENDED COURSE

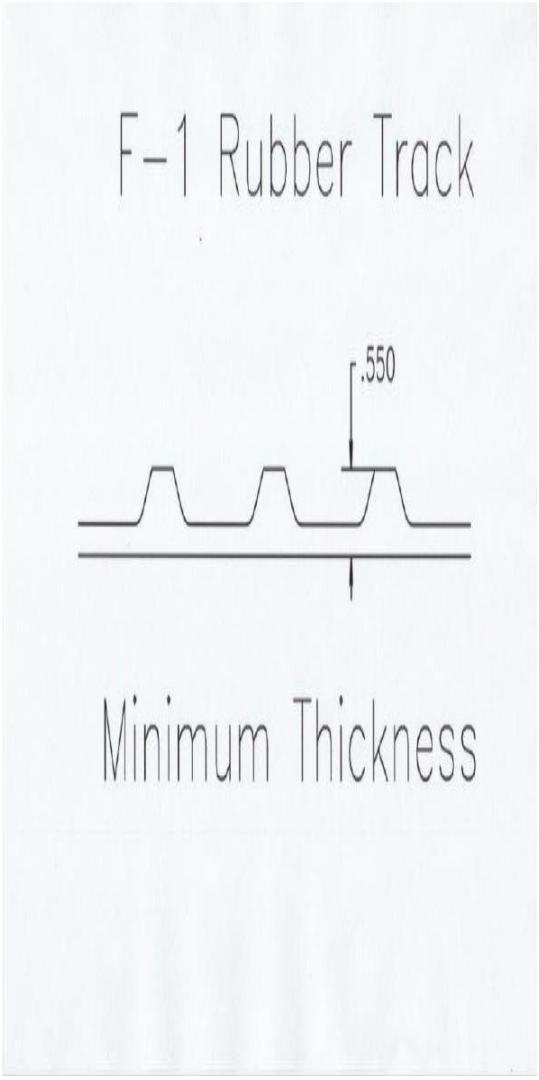
NOTE: For Radar Runs, course maximum length is 660' for snow and ice with a shut down length of 1000 feet



KITTY CAT,
120/4 4-STROKE,
JUNIOR NOVICE



This drawing indicates the optimum dimension's for a 120/Kitty Cat oval track. Special attention must be paid to obstacles and barriers that may increase risk. Proper course markers and cushions are required. For special track options, or deviations to the course dimensions, contact ISR at todd@isrracing.org or Todd Achterberg 262-335-2401



The above drawing indicates the proper method of measuring track minimum thickness for determining dimension.required.

This drawing indSpecial attentio

Cross Country Junior 10-13 approved sleds, must must run approved gear reduction.

Brand	Model	Year	Requirements
Arctic Cat	380 cc and smaller fan cooled models	Any	With Gear Reduction
	Z440 any	Any	With Gear Reduction
	Z-570 any	Any	With Gear Reduction
	F-5 2010	2007-2010	With Gear Reduction
	500 Sno Pro 2010	2010	With Gear Reduction
Polaris	380 cc and smaller fan cooled models	Any	With Gear Reduction
	Pro-X 440 Fan any	Any	With Gear Reduction
	Shift 550 any	Any	With Gear Reduction
Ski Doo	380 cc and smaller fan cooled models	Any	With Gear Reduction
	MXZ550F 2010	2010	With Gear Reduction
	GSX550F 2006-2009	2006-2009	With Gear Reduction
Yamaha	Phazer 2007-2010	2007-2010	With Gear Reduction

OVAL CHASSIS REQUIREMENTS 600 LIMITED

Minimum material dimensions for 600 Limited class front end assemblies

If shock absorber is attached to the suspension arm or is attached to the arm through a linkage use recommended minimum thickness as called out in table A.

If the shock absorber is directly attached to the splindle use required minimum thicknesses as called out in table B.

If it is a trailing arm machine use recommended minimum thickness as called out in table C.

Table A Shock absorber attached to suspension arm or attached to the arm through a linkage.

Lower arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size	Bolt Size
0.750	0.125	5/8	1/2
0.875	0.083	5/8	1/2
1.000	0.065	5/8	1/2
1.125	0.065	5/8	1/2
1.250	0.049	5/8	1/2

Upper arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size	Bolt Size
0.750	0.083	1/2	3/8
0.875	0.065	1/2	3/8
1.000	0.049	1/2	3/8

Table B : Shock absorber directly attached to spindle housing.

Lower arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size	Bolt Size
0.750	0.083	5/8	1/2
0.875	0.083	5/8	1/2
1.000	0.065	5/8	1/2
1.125	0.065	5/8	1/2
1.250	0.049	5/8	1/2

Upper arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size	Bolt Size
0.750	0.083	1/2	3/8
0.875	0.065	1/2	3/8
1.000	0.049	1/2	3/8

Table C (Trailing Arm Only)

Lower arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size
0.750	0.125	7/16
0.875	0.100	7/16
1.000	0.083	7/16
1.125	0.083	7/16

Lower arm minimum requirements (Aluminum) 6061 T-6

Tubing Size	Wall Thickness	Rod end size
0.875	Solid	7/16
1.000	0.250	7/16
1.125	0.188	7/16

Upper arm minimum requirements 4130 (Chrome Moly)

Tubing Size	Wall Thickness	Rod end size
0.750	0.125	7/16
	0.083	7/16
1.000	0.065	7/16
1.125	0.065	7/16

Upper arm minimum requirements 6061 T-6 aluminum

Tubing Size	Wall Thickness	Rod end size
0.750	Solid	7/16
0.875	0.187	7/16
1.000	0.187	7/16
1.125	0.125	7/16