

# WATERFORD HILLS



## ROAD RACING • 1981



JUNE \$1.00

SPRING SPRINTS

### RACING RAIN OR SHINE

The peaceful hills of Waterford are being invaded... with a thundering army of sports cars, sedans and formula cars in fierce, wheel to wheel competition... and for 1981, we've assembled the largest field in our 23 year history! Watch over 130 top drivers battle it out in the finest racing machinery from American and Europe. Corvette, Porsche, Datsun. Everything from Capris to Camaros, McLarens to MGs. All together, fighting it out on a mile-and-a-half track with 13 right and left turns that twist up and down hills like no other road course in the U.S.A.

### WATERFORD HILLS 1981 ROAD RACING CALENDER

- May 16-17
- June 27-28
- August 29-30
- May 30-31
- July 25-26
- Sept. 26-27

### EASY ON THE WALLET

Admission is just \$2.50 for Saturday, \$4.00 for Sunday, or \$5.50 for the entire weekend. Children under 12 are always free and a Season Ticket is only \$20.00. The track opens at 10 A.M. for practice and qualifying. Racing begins at 1:30 p.m. on Saturday (seven races) and at 11:30 a.m. on Sunday (ten races). For more information phone (313) 623-0700.

### EASY TO GET TO

Chances are you live within a few minutes of the Midwest's premier road course. \*The W.H.R.R.L. Race Track is located just 6 miles north of Pontiac on Waterford Road, 1/2 mile east of Dixie Highway (U.S. 10) in Waterford, Michigan. The easiest route is to take I-75 to the southbound Sashabaw Exit. Take Sashabaw south to Pelton Road, then take Pelton west to Waterford Road. The total distance after exiting the expressway is 2 1/2 miles.

### GREAT SOUNDS IN THE HILLS

Published by Waterford Hills Road Racing Inc. 1981



TOYOTA TOYOTA TOYOTA TOYOTA TOYOTA TOYOTA TOYOTA TOYOTA TOYOTA  
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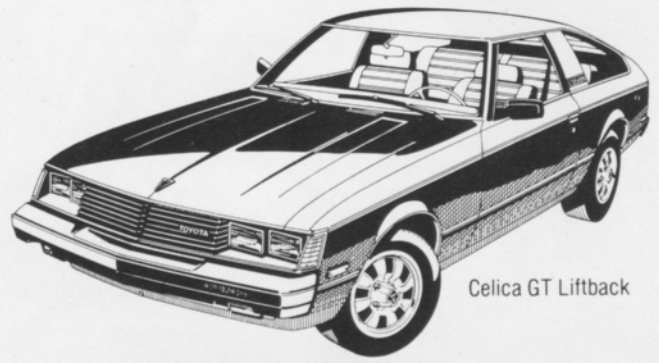
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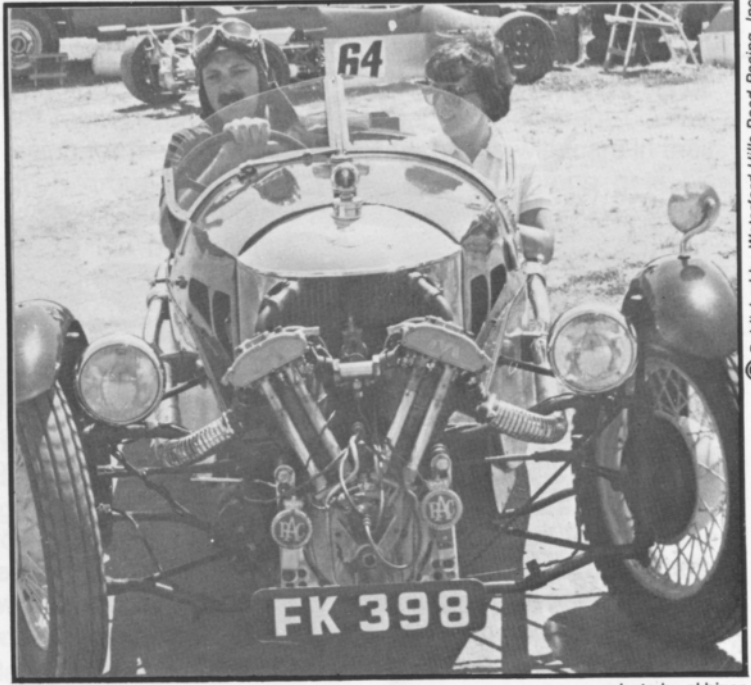


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# WATERFORD



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photo by al bizer

## contents

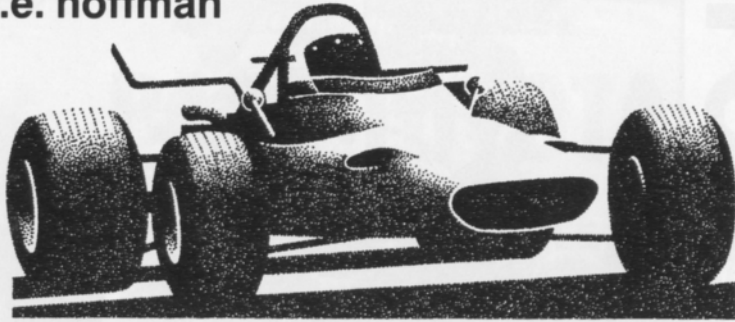
- 2. the inside line
- 3. officials
- 23. looking back with bizer
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## the inside line

s.e. hoffman



Welcome to road racing at beautiful Waterford Hills Raceway! This June's races promise to continue the exciting competition begun in May.

One of the most consistently exciting race classes over the years has been Formula Vee, single cockpit open-wheelers with all Volkswagen components. Tradition has continued with the two May weekends which saw Dennis Hamilton in blue #3 and Lee McLeod in red #21 in fierce wheel-to-wheel combat, swapping the lead several times in each race, and never more than a tick of the watch apart! Only a seer with a crystal ball could predict which one will be the FV class champion come September.

Continuing with the open-wheelers, the Formula Ford class has generated lots of excitement with the return of Mark Davison in green #91 and Joh Horgas in white #73 to challenge the veteran, Keith Averill, in blue/silver #31. Add some regulars in new racing machines and you get a pack of five frontrunners cruising around in the low elevens. This class record could drop before the season ends!

The sedans and Corvettes in GT-1 have had a great time sorting themselves out and produced the only new record in May when Doug Buist took 3/10ths off the old time. Doug clicked off a 1:17.1 in his #61 red Vette!

Another group is GT-4 with all the Mini-Coopers and NSU's which produced several different winners in the class races. Exciting action is happening in the "small bore" production groups, again with a lot of different winners in FP, GP and HP. All in all we are off the an exciting competition season!

**One innovation from May will be continued this Saturday and Sunday, the free rides for spectators around the race track on the racing breaks. Your response on the hill has been overwhelming! Listen for our track announcers and get in line early!**

There was one consistent comment from our May early riders which I will try to answer, "Why is it that several cars get a checkered flag lap after just one race?" Because of time limitations, we race several classes together. The different classes aren't racing for the overall win, they are racing with cars in their competition group — so the winner of each group gets his chance to take a bow for your applause! Watch the sides of the racers since the big number indicates the driver's number-of-record for the weekend and the small letters indicate his competition class. By using your entry lists and schedule, you can tell who is really dicing with whom!

**Some very special events will be happening this summer including appearances by some of your favorite radio and media personalities. Parade laps by local marque clubs, including the Ford-Mercury Club, the English Car Clubs of Michigan and the Michigan Street Rods, are already scheduled. The great Ford Motorsports road show will be on the spectator hill next month. Plan right now to join us for the rest of the season, just check the schedule on the back of this book!**

Happy viewing!!

## officials

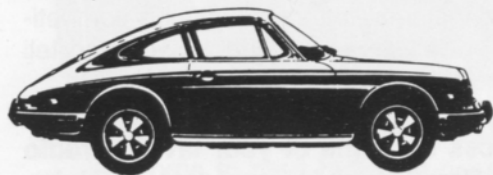
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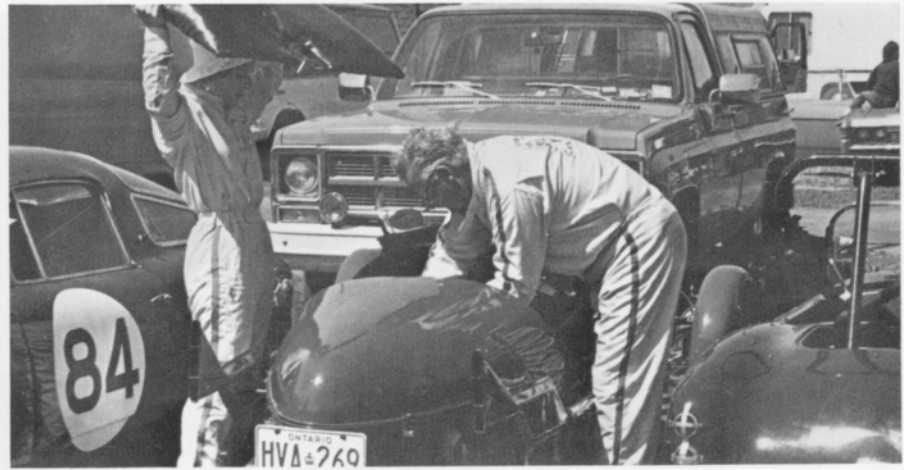
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### May 30/31 Race Winners

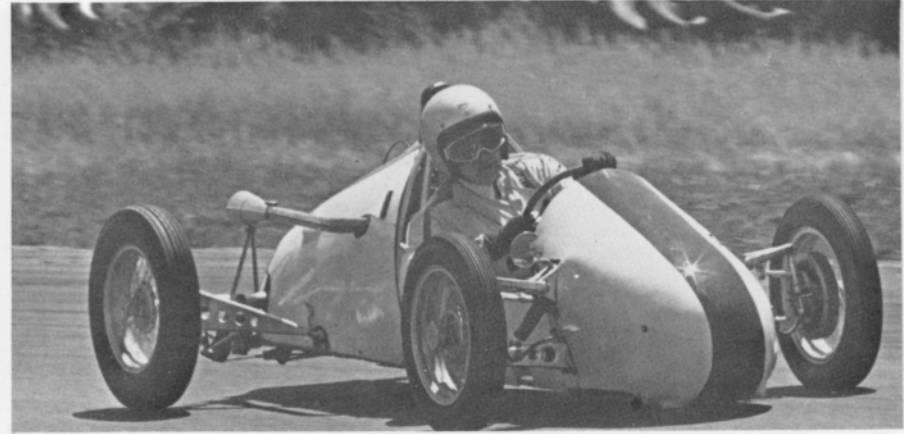
		class races	
		saturday	sunday
Race 1	FV	lee mcleod	lee mcleod
Race 2	FP	randy black	anthony brakora
	GP	bob lesage	hugo carlson
	HP	tony messina	conrad miesiak
	GT-4	dan hill	ross becker
Race 3	FF	jon horgas	jon horgas
Race 4	GT-2	larry ross	ken nelson
	SSA	charlie henry	charlie henry
	SSC	mike white	robert ristow
Race 5	ASR	ed murray	ed murray
	GT-1	doug buist	don clining
	DP	dan neipling	ron mcconkey
	EP	grady ellis	paul nawrocki

### feature races

	Race 1	Race 2	Race 3	Race 4
1st	lee mcleod	dan hill	jon horgas	ed murray
2nd	dennis hamilton	al jacobson	keith averill	grady ellis
3rd	larry bradley	anthony brakora	mark davison	ken nelson
4th	john nolan	jim grams	dave schleuter	steve scannell
5th	leon mesler	bob lesage	agostini fabbri	don burry



1932 morgan super sport



1959 F3 cooper norton 500



1959 F3 cooper norton 500

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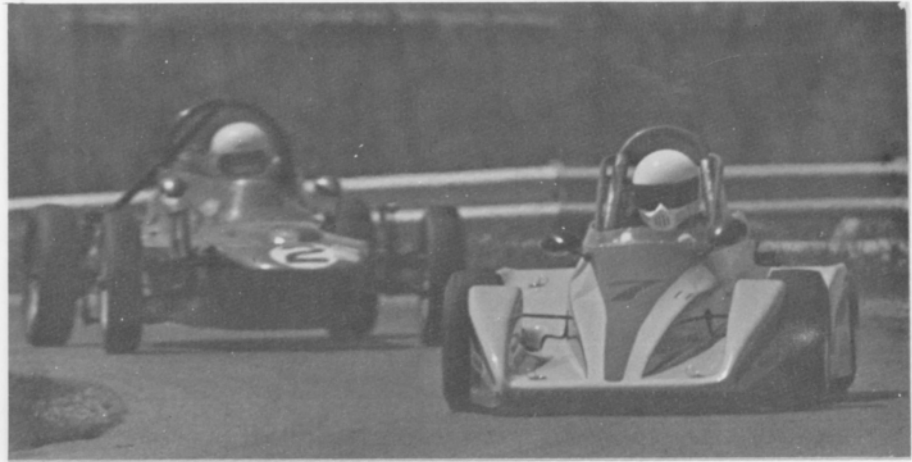


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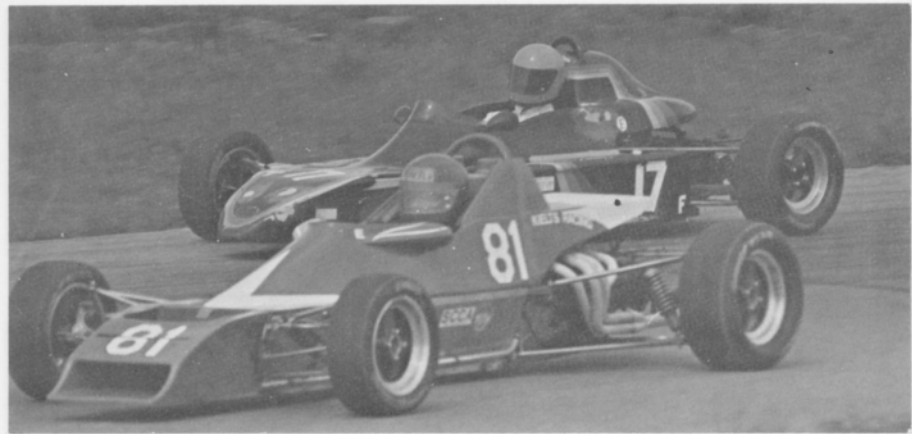


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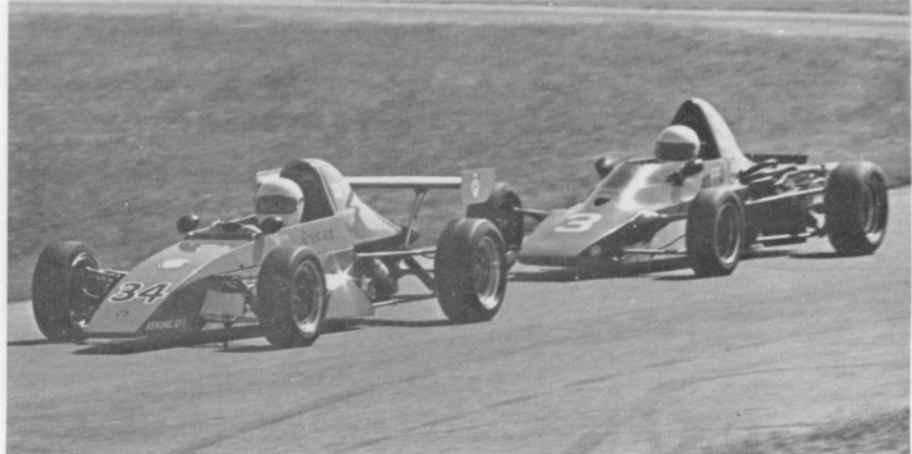


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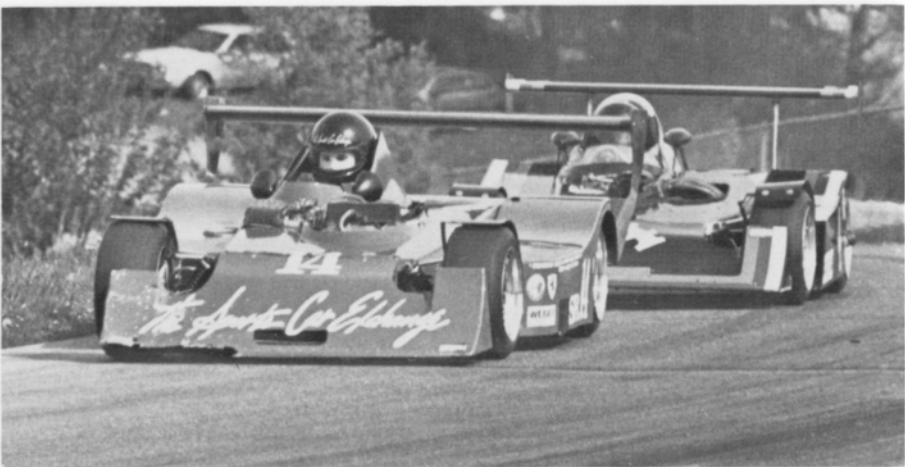


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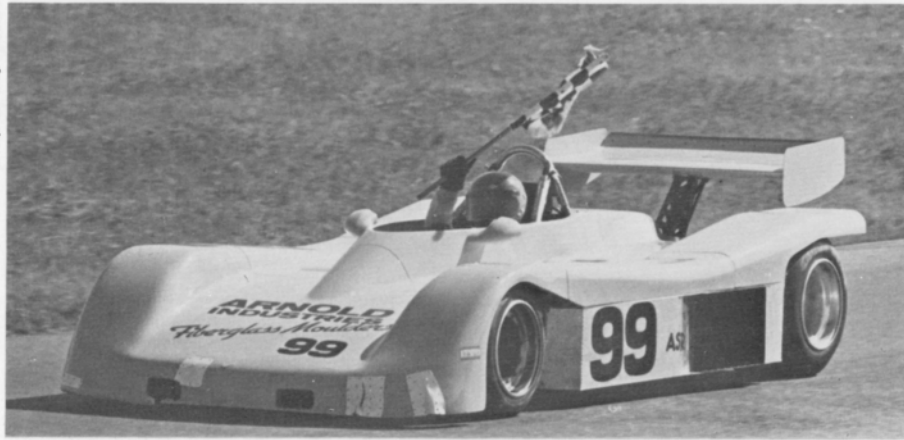


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# winners circle

photo by al bizer



**ED MURRAY**  
ASR



**LEE McLEOD**  
FV

photo by al bizer



**RON McCONKEY**  
DP



**DENA HALLANDAL**  
HP

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**ANTHONY BRAKORA**  
FP



**FRANCO CANDELISE**  
SSB

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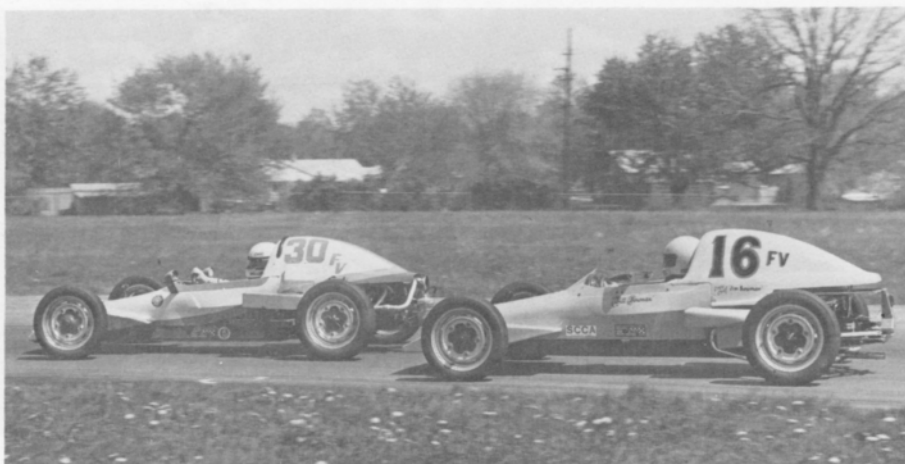


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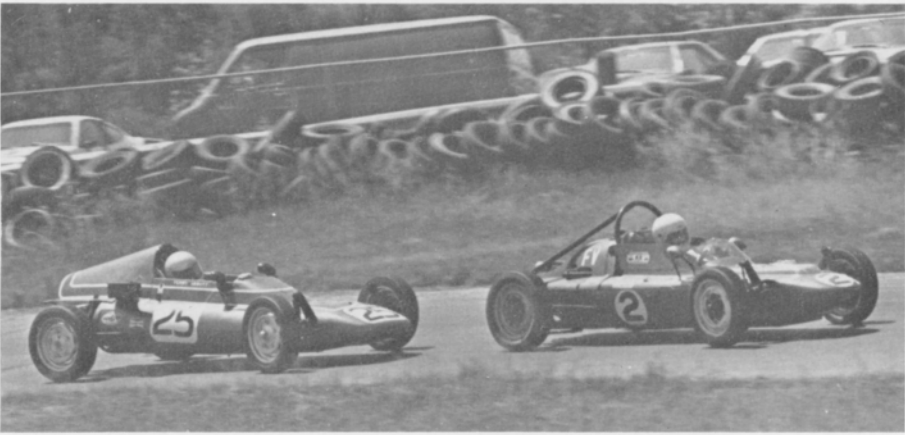


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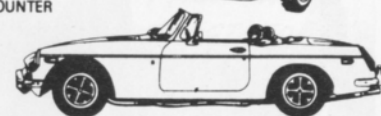
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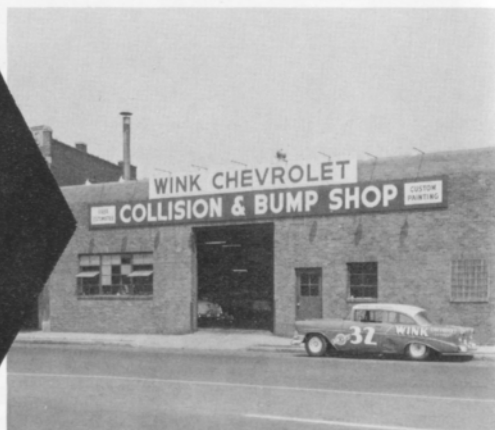
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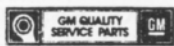
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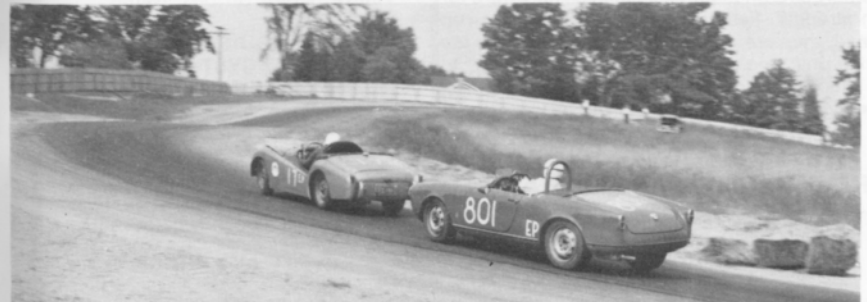
FROM "GULCH" AND  
INTO "BLUFF BEND"...



... STREAKING  
PAST THE  
SPECTATOR  
AREA.  
HEADING...



... FOR "SKEET HOUSE TURN" WITH A HARD LEFT...

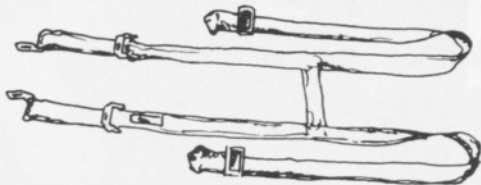


... UP "WATERFORD BEND" TOWARDS "HILLTOP TURN."

# R.J.S. SAFETY EQUIPMENT

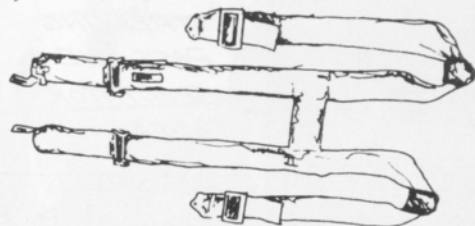
(Formerly Bob's Safety Equipment)

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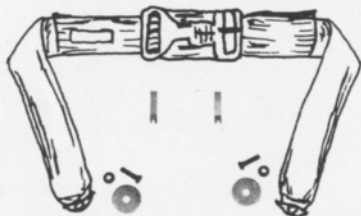
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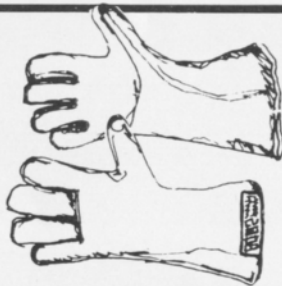
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## average lap speed chart

Min/Sec	MPH	Min/Sec	MPH	Min/Sec	MPH
1:00	85.326	1:17	66.488	1:34	54.463
1:01	83.927	1:18	65.635	1:35	53.890
1:02	82.574	1:19	64.805	1:36	53.329
1:03	81.263	1:20	63.995	1:37	52.779
1:04	79.993	1:21	63.204	1:38	52.240
1:05	78.762	1:22	62.434	1:39	51.713
1:06	77.569	1:23	61.681	1:40	51.196
1:07	76.411	1:24	60.947	1:41	50.689
1:08	75.288	1:25	60.230	1:42	50.192
1:09	74.197	1:26	59.530	1:43	49.704
1:10	73.137	1:27	58.846	1:44	49.227
1:11	72.106	1:28	58.176	1:45	48.758
1:12	71.105	1:29	57.523	1:46	48.298
1:13	70.131	1:30	56.884	1:47	47.846
1:14	69.183	1:31	56.259	1:48	47.403
1:15	68.261	1:32	55.647	1:49	46.968
1:16	67.363	1:33	55.041		

The Waterford Hills Road Course is 1.4221 miles long (7,509 ft. center line of track). To determine the speed of any individual car, time it for one complete lap and read off the speed from this table.

## class records

ASR	Bob Schneider	Mallock U2	1:11.1	5/79
CSR	Evan MacDonald	M - 2	1:10.5	9/78
DSR	Don Clining	Meister Honda	1:20.8	5/75
S/2000	Larry Campbell	Lola	1:11.5	9/79
CP	Wayne Rogers	Datsun 240Z	1:19.4	8/78
DP	Karl Nilsson	Porsche 914	1:17.5	9/79
EP	Lou Livengood	Porsche 356	1:16.3	6/80
FP	Barry Hartzel	MG Midget	1:16.2	7/78
GP	Grant Brady	Triumph Spitfire	1:18.9	9/78
HP	Paul Cameron	Sprite	1:20.4	7/78
GT-1	Dave Buist	Corvette	1:17.1	5/81
GT-2	J. Byron Walker	Datsun 510	1:16.5	9/80
GT-3	Dave Huard	Toyota	1:18.9	7/80
GT-4	Ross Becker	Mini	1:20.6	8/80
SS/A	Bobby Fehan	Mustang II	1:27.4	7/80
SS/B	Thad Gutowski	Scirocco	1:29.6	9/76
SS/C	Marc Robling	Pinto	1:30.1	9/80
FF	Vince Muzzin	Royale	1:09.4	6/78
FV	Vince McLeod	Lynx	1:16.5	7/79
**F/ALTC	Vince Muzzin	March	1:06.7	5/75
F/CNTL	Charles Van Acker	Lola	1:09.8	8/79
F4	Robert Long	Xpit	1:13.2	9/79
F440	Greg Assenmacher	Stinger	1:19.0	7/80

\*\*track record

# racing classes

To insure fairness in competition, all road racing cars are grouped into racing classes by the Sports Car Club of America in its General Competition Rulebook (GCR). Waterford Hills Road Racing observes the GCR regulations with some minor exceptions.

The five competition groups are: Production (sports cars), Showroom Stock (GT cars and sports cars with minimal modification), Sports Racing (highly modified engine and body over wheels), GT (enclosed cockpit passenger cars and former big production cars), and Formula (open wheels and single cockpit). Race groups are subdivided into classes of equally competitive cars based upon engine size and handling characteristics.

The cars listed below are representative of their racing classes and include most of those you will see at Waterford Hills

## PRODUCTION

- CP** Datsun "Z" series, Mazda RX7, Porsche 914/6 & 924 Turbo, Sunbeam Tiger, Triumph TR-6 & TR-8
- DP** Lotus Super 7, Datsun 2000, Triumph GT-6, Yenko Stinger, Porsche 914-S
- EP** Porsche 356 series, MGB, Opel GT, Porsche 914/4, Triumph TR-4
- FP** Saab Sonnet, MG Midget Mk III & IV, Lotus 7, Triumph Spitfire Mk III & IV & 1500
- GP** MG Midget Mk I & II, Triumph Spitfire Mk I & II, MGA, Porsche Coupe, Austin Healy Sprit 1100, Fiat X1/9, Fiat 124 Spider
- HP** Austin Healy Sprite Mk I & II, Fiat 850, MG Midget 948, Fiat Abarth

## SHOWROOM STOCK

- SSA** Porsche 924, Datsun 280Z, Capri V-6, Mustang Cobra, Mazda RX-4 & RX-7
- SSB** Datsun 200 SX, Fiat 124, Scirocco, Dodge Colt
- SSC** Pinto, VW Rabbit, Renault LeCar, Mustang 2.3, Fiesta, MGB Pontiac Astre, Honda Civic, Toyota Carolla

## SPORTS RACING

- ASR** over 1300 cc but less than 6000 cc
- CSR** over 850 cc up to 1600 cc (with restrictions)
- DSR** below or equal to 850 cc
- S/2000** uses Ford 2000 cc overhead cam engines only

## GT CLASSES

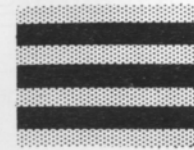
- GT-1** Camaro, Dodge Aspen, Ford Cobra II, Corvette, Shelby GT-350, Porsche 911 SC
- GT-2** Opel 1900, Datsun 510 1800, Mustang 2300, Pinto 2000 & 2300, Cosworth Vega,
- GT-3** Ford Escort/Lynx, VW Scirocco, VW Rabbit, Datsun 200 SX, Mazda RX 2, Toyota Celica, Pinto 1600, Fiat 124 Sports Coupe, Datsun 510 1600, Dodge Colt, Toyota Carolla 1600
- GT-4** Honda Civic, Austin/Morris Mini Cooper, VW 1300, NSU TT, Renault LeCar, Fiat 124 1200, Toyota Corolla 1200

## FORMULA

- FF** Formula Ford - Cortina or Pinto 1600 cc engine, strict weight to engine ratio with driver's weight included in total legal weight, very equal class
- FV** Formula Vee - all Volkswagen components, 1200 cc engine, driver's weight included in total legal weight, very competitive class
- F/AKTC** Formula Atlantic - choice of engines in over 1100 cc up to 1600 cc range, wings and other modifications allowed, not meant to be an inexpensive race car
- F/CNTL** Formula Continental - engine up to 1100 cc, rear wings allowed, combines the modifications of the previous Formula C and Formula Super Vee classes
- F440** Formula 440 - utilizes Fuji two-cycle snowmobile engines and drive train, rigid suspension, wings permitted
- F4** Formula Four - Canadian class, motorcycle engine power plant, engine size determines weight and transmission allowed

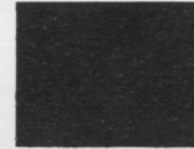
# flags

**yellow with red stripes**



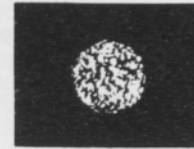
Take care, oil has been spilled or a slippery condition exists somewhere in your vicinity. Look at the track surface.

**black**



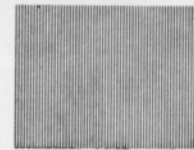
Sloppy or dangerous driving. Complete the lap you are on, then stop at the Start/Finish line for consultation with the Chief Steward.

**black with orange ball**



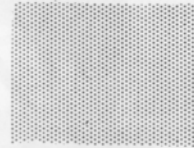
(Meatball black flag) There is something mechanically wrong with your car. Proceed to your pits at reduced speed.

**green**



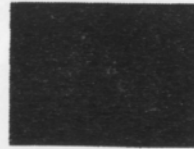
(Or no flag) Course is clear.

**yellow**



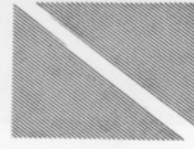
(Stationary) Take care, danger, no passing.  
(Waving) Great danger, be prepared to stop, no passing.

**red**



Stop immediately, clear the course as well as circumstances permit; the race has been stopped.

**blue with diagonal yellow stripes**



(Motionless) Another competitor is following you closely.

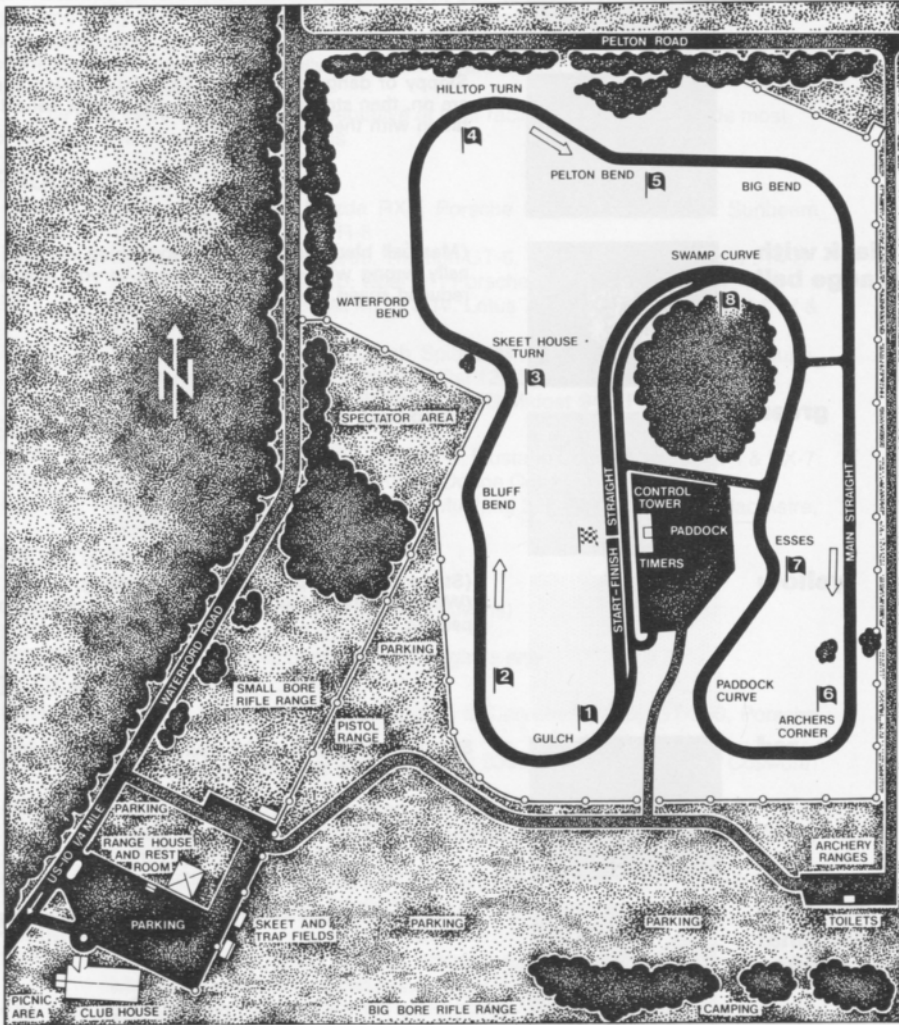
**checkered**

You have finished the race (or practice session). Complete one "cool-off" lap at reduced speed before entering the pits.

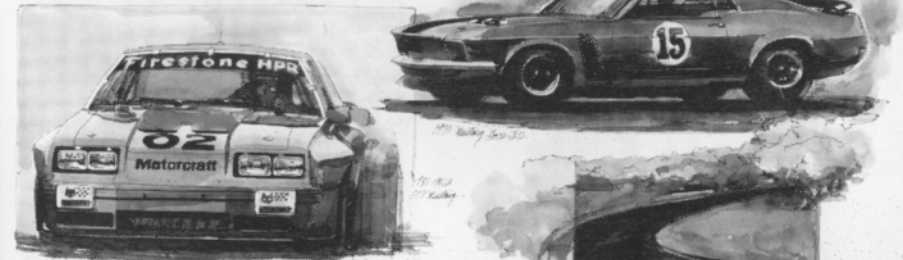
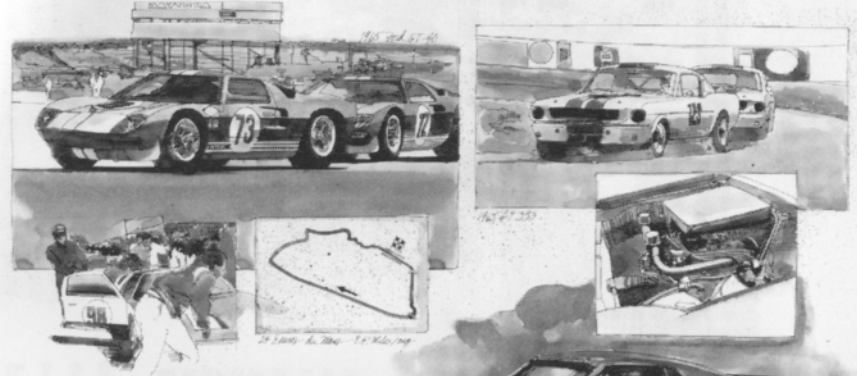


# waterford hills course map

a 1.5 mile asphalt road course at waterford, michigan



# THE SPIRIT OF COMPETITION



# A CONTINUING TRADITION

FORD DIVISION