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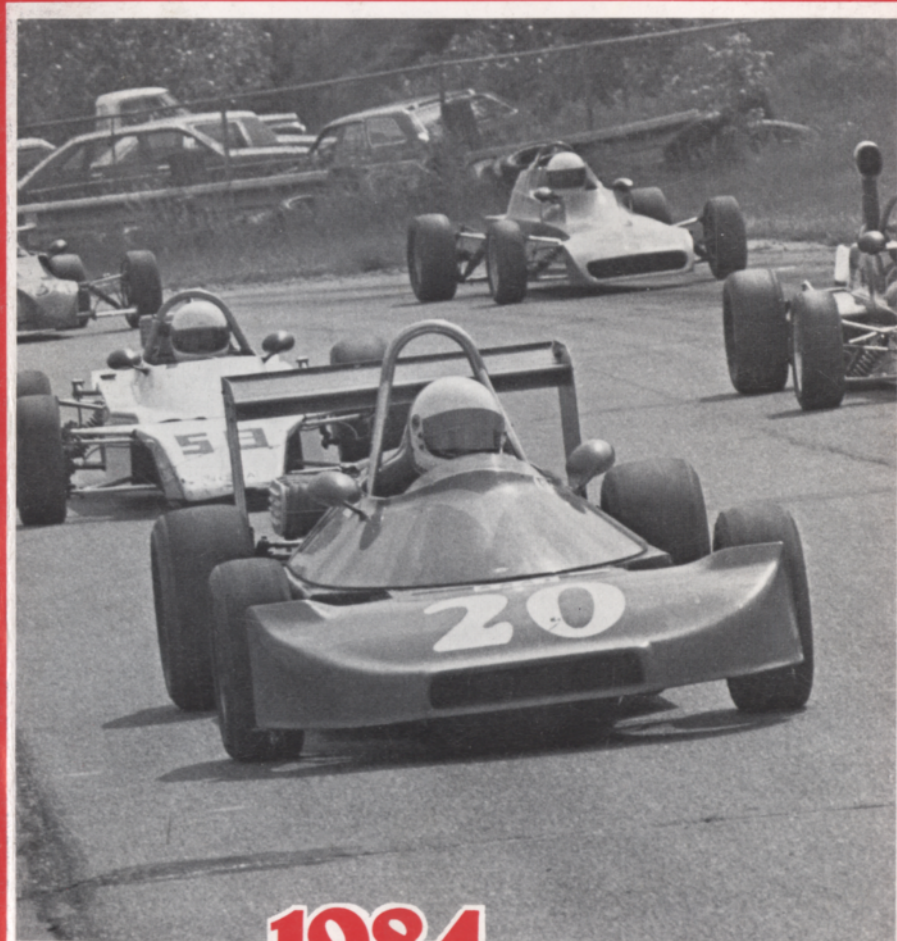
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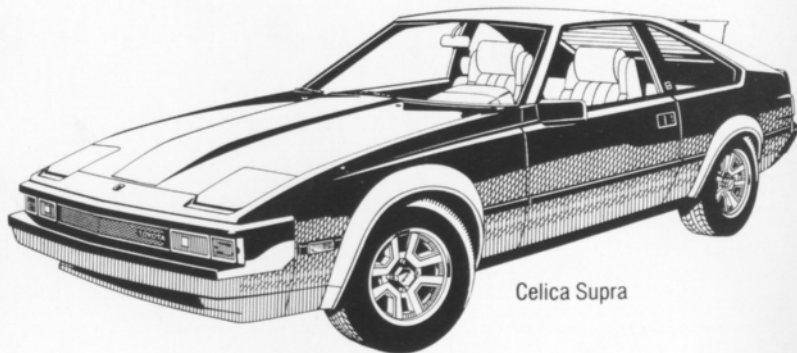
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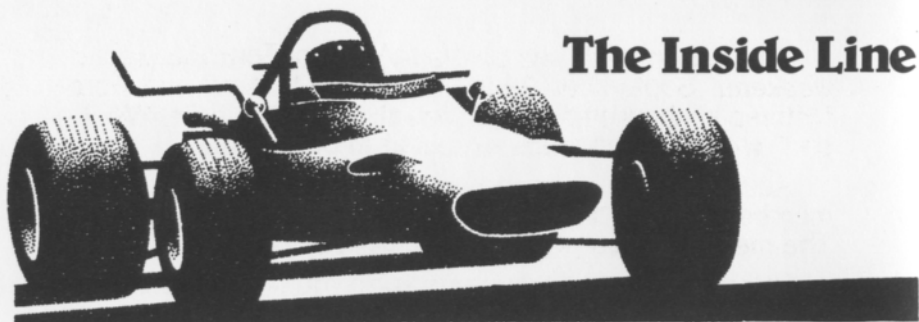


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The Inside Line

July marks the middle of our racing season here at Waterford Hills.

Last month over one hundred racers came out to try their luck. No records fell, but the racing was fast and furious none the less.

The July 7-8 weekend is sponsored by GAVCO. GAVCO is a manufacturing and tooling consulting company.

The July 28-29 weekend is sponsored by BF Goodrich and will feature two special Showroom Stock races with a cash purse.

As the name implies Showroom Stock cars are just that, stock. With the exception of safety equipment; a roll cage, racing belts, and a fire extinguisher, these cars are just like the one you drive yourself.

To help you understand what the differences are between the types of cars, Lee White, our announcer will talk about the various classes during their races.

So you can find out what its like "out there", I will be coming over to the turn three spectator area during the afternoon break on both Saturday and Sunday with a driver or two, weather permitting.

Don't forget to visit the Boutique and buy yourself a memento of the weekend. While you're there you can buy an envelope for 25 cents that will be used to send you next seasons schedule when it is available. I'm sure that you don't want to miss even one exciting weekend of racing at Waterford.

In the months ahead we have many exciting events planned and next season will be even better.

Our second "Ethnic Auto Weekend" will be August 25-26 with the International Stars region of the Mercedes Benz Club of America, the local regions of the Porsche Club of America and the BMW Car Club of America in attendance.

Our season finale will be the MAC Tool/Ford Motorsport weekend, September 29-30. We hope to have the Ford Motorsport show on display. It will also be "British Car Weekend" with nineteen clubs expected to be on hand.

As always you are all welcome to attend our monthly membership meeting on the first Wednesday of the month. The meeting takes place in the clubhouse at 9 PM.

All our workers are volunteers and if you would like to learn how to help, the meeting is the best place to get the information you will need. Don't forget you don't have to be a member of Waterford or any other club for that matter, All you have to do is be interested in racing.

We hope to see you at the meeting or here at the track next month. Thank you for being part of an exciting weekend.

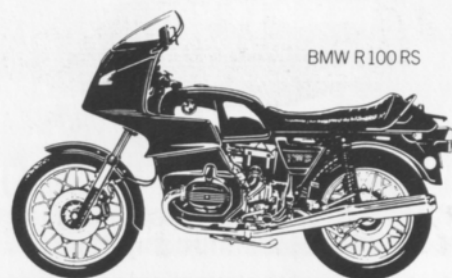
Mike White

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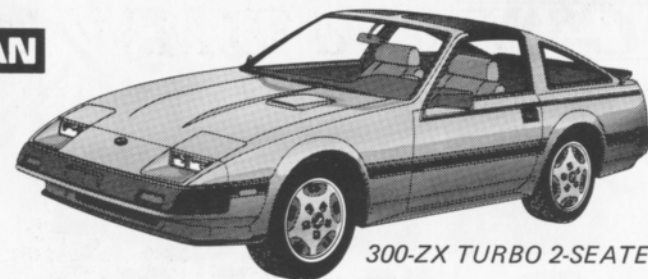
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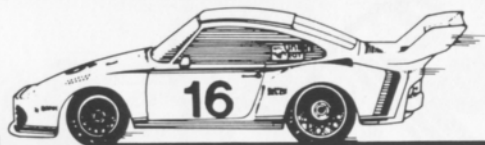
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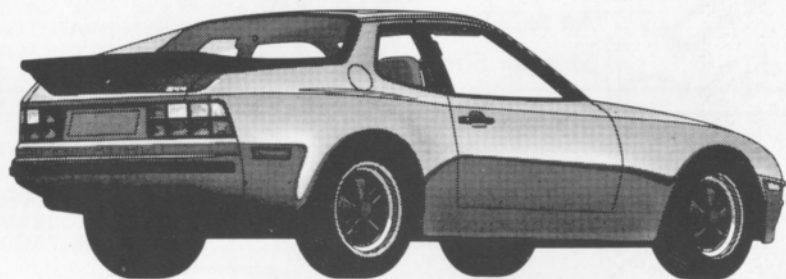
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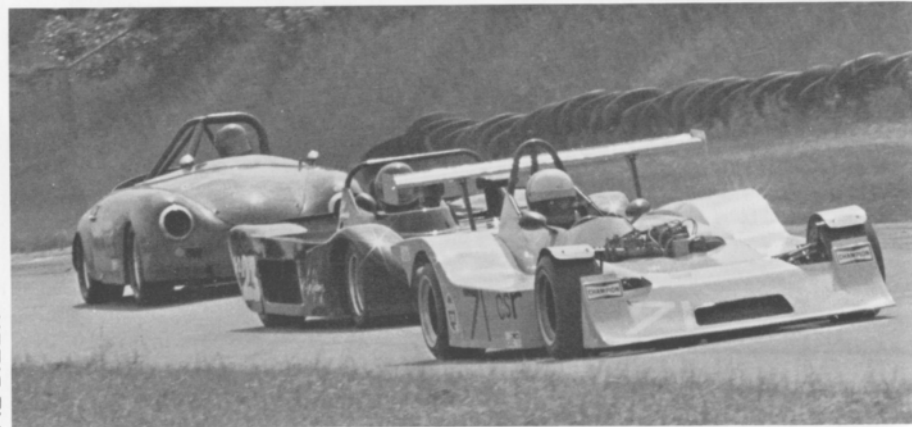
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JUNE 9-10 RACE WINNERS CLASS RACES

		Saturday	Sunday
Race 1	GT-4	Tom Downey	Tom Downey
	GT-5	Ted Wollesen	Ted Wollesen
	SSA	Bill Bayley	Bill Bayley
Race 2	FV	Steve McNamara	Steve McNamara
Race 3	CSR	Keith Lobban	Keith Lobban
	EP	Paul Nawrocki	Paul Nawrocki
	FP	J. Jeffrey Lane	Jeff Lane
	GP	Keven Good	Keven Good
	HP	Conrad Miesiak	Rob McIntosh
Race 4	FF	David Johnson	David Johnson
	FFR	Mark Davidson	Dennis Pendelton
	F4	Robert Long	Robert Long
Race 5	FC		Doug Plzak
	GT-1	Ray Krom	Ray Krom
	GT-3	Doug Goad	Doug Goad

FEATURE RACES

	Race 1	Race 2	Race 3	Race 4
1st	Leon Mesler	Ted Wollesen	Doug Plzak	Keith Lobban
2nd	Steve McNamara	Dave Dobry	Robert Long	Bob Schneider
3rd	Mike Trosell	Robert Ohneck II	Patrick Hill	Paul Nawrocki
4th	Larry Bradley	Gari Chaffin	Robert Fry Jr.	Harry Drake
5th	David Shelbo	Tom Goad	Bill Shamick	Ray Krom



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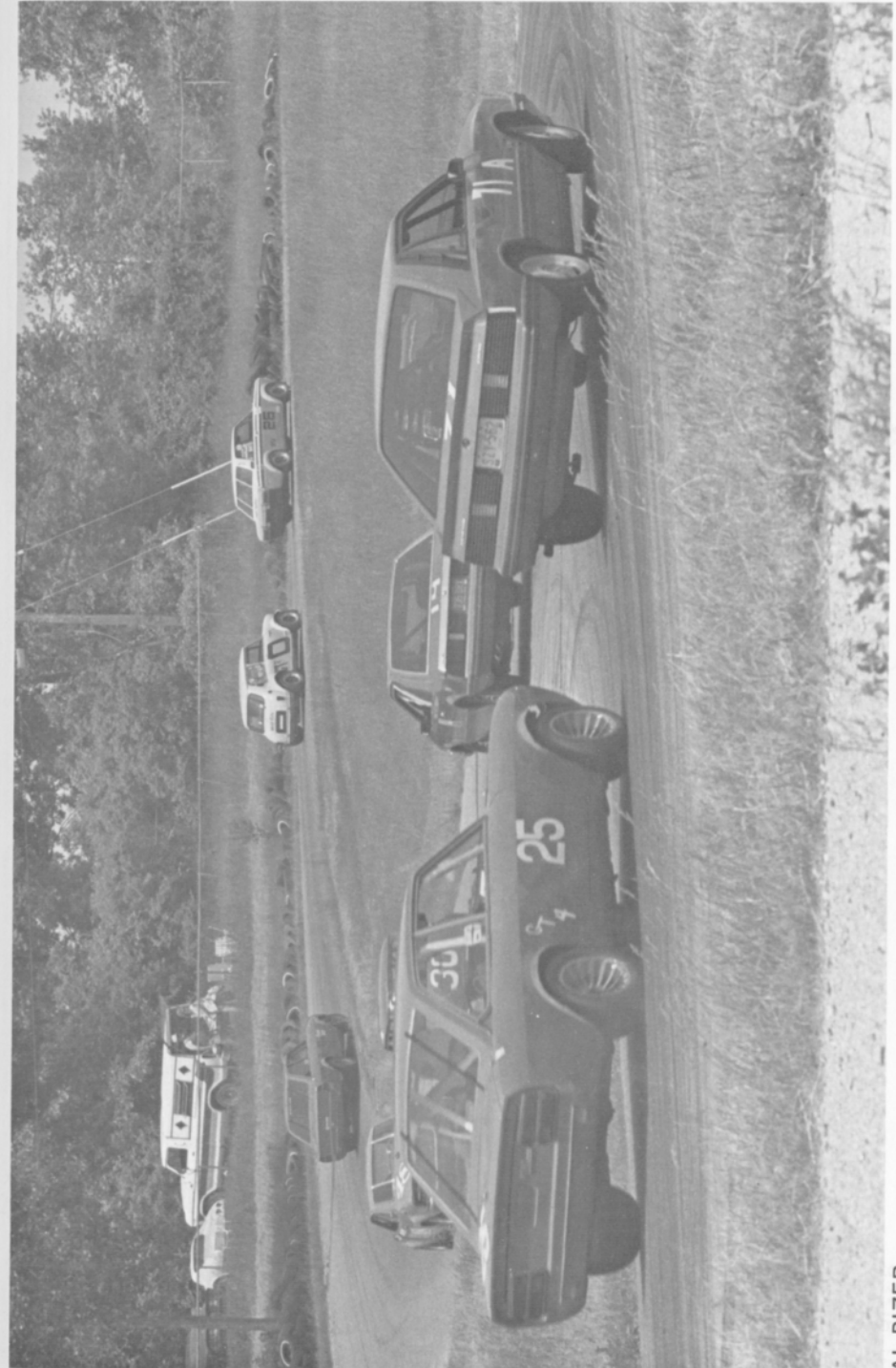
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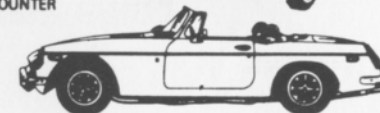
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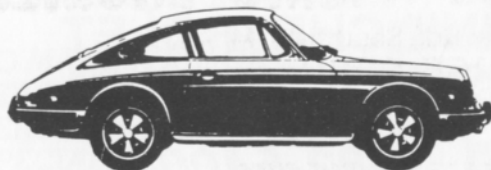
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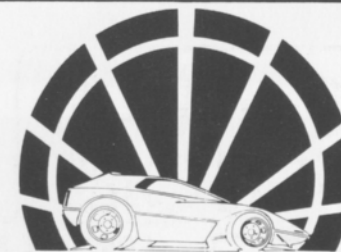
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A MINI MAKES A HARD RIGHT GOING INTO TURN ONE

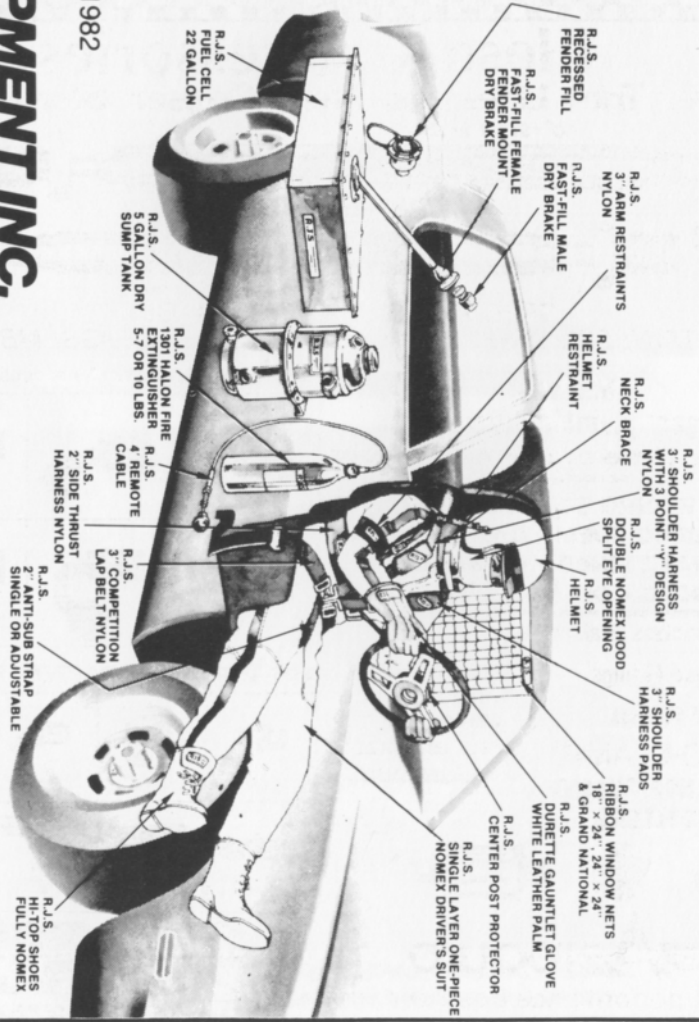


A LARGE CROWD WATCHES THE LITTLE ONES

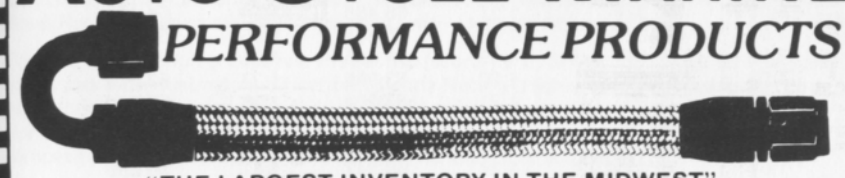
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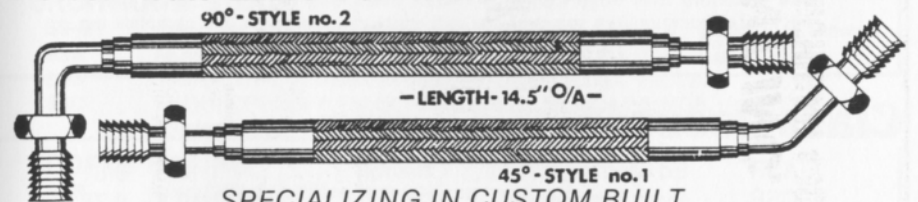
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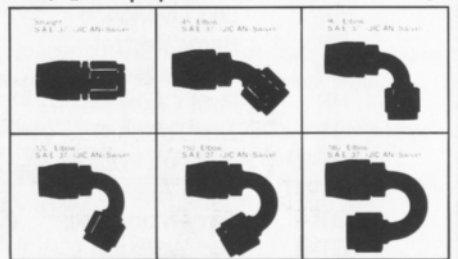
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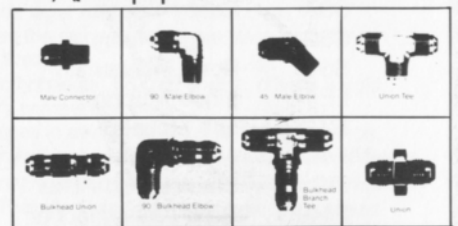
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Average Lap Speed

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	58.178	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	Ed Murray	Chevron	1:10.9	9/81
CSR	Evan MacDonald	M-2	1:10.5	9/78
DSR	Ed Murray	Jedi	1:14.8	8/83
S/2000	Larry Campbell	Lola	1:11.5	9/79
EP	Lou Livengood	Porsche 356	1:16.3	6/80
FP	Barry Hartzel	MG Midget	1:16.2	7/78
GP	Kirk Carlson	MG Midget	1:17.0	8/81
HP	Paul Cameron	Sprite	1:20.4	7/78
GT-1	Tim Taylor	Corvette	1:13.7	9/83
GT-2	J. Byron Walker	Datsun	1:16.5	9/80
GT-3	Craig Allen	Lotus Elan	1:16.4	9/83
GT-4	Jerry Morlewski	Fiat 124	1:19.0	9/83
GT-5	Ted Wollesen	Mini Cooper	1:19.9	5/84
SS-GT	Bill Bayley	Firebird	1:24.5	5/84
SSA	Bobby Fehan	Mustang II	1:27.4	7/80
SSB	Charlie Henry	Charger	1:27.7	9/83
SSC	Ron Lindensmith	Fiat X1/9	1:29.6	9/82
FF	Vince Muzzin	Royale	1:09.4	6/78
FV	Lee McLeod	Lynx	1:15.7	7/81
**F/A	Andy Falbo	March	1:06.1	8/83
F/C	Charles Van Acker	Lola	1:09.8	8/79
F440	Greg Assenmacher	Stinger	1:19.0	7/80
F4	Stuart Lamont	Xpit	1:12.5	7/83
FFR	Mark Davidson	Crossle 32	1:17.0	5/84

**track record

1984 Waterford Digest

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 single cockpit). Racing 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

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, Austin Healy Sprite, Fiat X1/9, Fiat 124 Spider, Alfa Romeo, Porsche Coupe
HP	Austin Healy Sprite Mk I & II, Fiat 850, MG Midget 948, Fiat Abarth

SHOWROOM STOCK

SS-GT	new class with current model cars of SSA plus additional modifications allowed.
SSA	Mustang Cobra, Mazda RX series, Porsche 924, Capri V-6, Datsun 280Z
SSB	Triumph TR-8, Scirocco, Dodge Colt, Datsun 200SX, Fiat 124
SSC	Fiat X1/9, Pinto, VW Rabbit, Renault LeCar, Mustang 2.3, MGB, Honda Civic, Toyota Carolla, Pontiac Astre

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	Corvette, Camaro, Ford Cobra II, Shelby GT-350, Porsche 911 SC, Dodge Aspen
GT-2	Datsun Z series, Mazda RX7, Porsche 914/6 & 924 Turbo, Sunbeam Tiger, Triumph TR-6 & TR-8
GT-3	Opel 1900, Datsun 510 1800, Mustang 2300, Pinto 2000 & 2300, Cosworth Vega
GT-4	Fiat 124 Sports Coupe, Pinto 1600, Toyota Celica, Dodge Colt, Toyota Carolla 1600, Renault LeCar, Datsun 510 1600, Ford Escort/Lynx, VW Rabbit & Scirocco
GT-5	Datsun 200SX, Austin/Morris Mini Cooper, VW 1300, NSU TT, Honda Civic, Fiat 124 1200, Toyota Carolla 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
FFR	Formula Ford Radial — the cars are the same as the above class except they must use BF goodrich T/A radial tires.
FV	Formula Vee — all Volkswagen components, 1200 cc engine, driver's weight included in total legal weight, very competitive class
F/ATLC	Formula Atlantic — choice of engines in over 1100 cc up to 16000 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



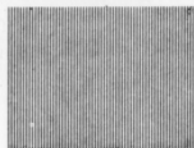
Sloppy or dangerous driving. Complete the lap you are on, stop at the Start/Finish line for consultation with Chief Steward. Waving Black Flag (displayed on all corner stations) means the race is stopped. Slow down immediately and proceed around the track with extreme caution to the pit lane for a re-start.

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



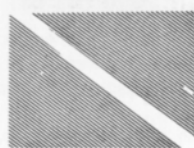
(Stationary) Take care, danger, no passing.
(Waving) Great danger, be prepared to stop, no passing.

red



Waving red (displayed by the Starter only) means the race is stopped, slow down immediately and proceed around the track with extreme caution to the pit lane.

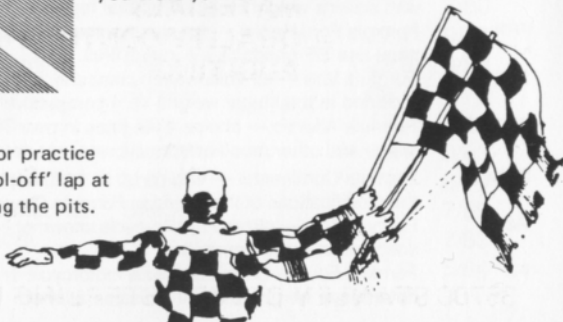
blue with diagonal yellow stripes



(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.



GAVCO ASSOCIATES INC.

GAVCO Associates is a manufacturing and tooling consulting company specializing in Aircraft and Aerospace Programs. In addition to consulting, we have a group of companies providing design and building services for any size program.

Composite tooling is our specialty . . . Starting with the latest state-of-the-

art in designs, we continue with NC digitizing and machining of master models. Our plastic shops provide plastic mandrels for electroforming nickel tools. Casting houses provide standard aluminum bases and hardware for any type fixture.

The following is a list of some of the services available through GAVCO:

- ENGINEERING CAD/CAM
- MASTER MODELS & FULL SIZE CUBES NC MACHINED
- PLASTIC TOOLS AND MANDRELS
- ELECTROFORM NICKEL TOOLS AND MOLDS
- NC MACHINING (CRITICAL FLIGHT PARTS)
- FIXTURE AND SPECIAL MACHINE BUILD
- FOUNDRY- ALUM. & STEEL
- PLASTIC TOOLING MATERIALS
- QUALITY CONTROL AUDITING

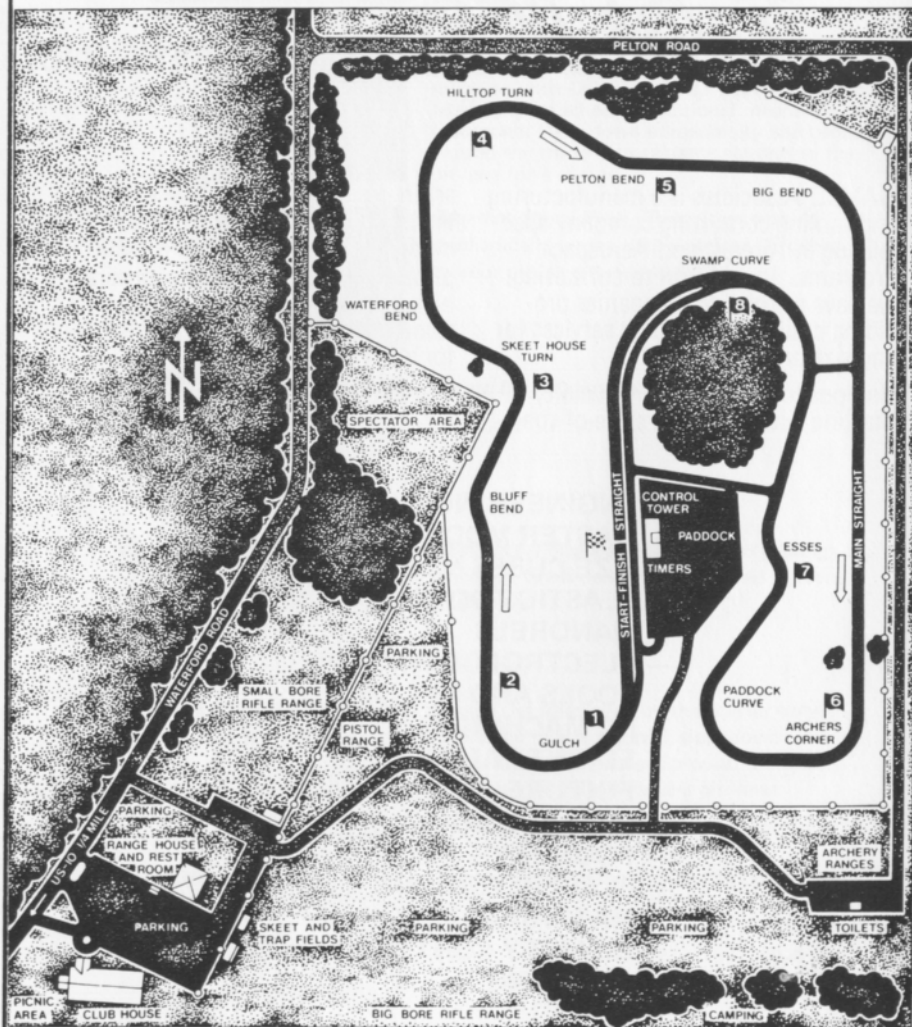
Gene A. Vaughn
President

35700 STANLEY DRIVE STERLING HEIGHTS, MI 48077

1984 Waterford Digest

Waterford Hills Course Map

a 1.5 mile
asphalt road course
at waterford,
michigan



Waterford Hills 1984 Road Racing Calendar Schedule

Race 1	May 5-6
Race 2	June 9-10
Race 3	July 7-8 GAVCO
Race 4	July 28-29 BF Goodrich
Race 5	August 25-26
Race 6	September 29-30 Mac Tool/Ford Motor Sport

RACING RAIN OR SHINE

The hills of Waterford are being invaded . . . with an army of sports cars, sedans and formula cars in fierce, wheel to wheel competition . . . and for 1984 we've assembled the largest field in our 26 year history! Watch over 130 top drivers battle it out in the finest racing machinery from America and Europe. Corvette, Porsche, Datsun. Everything from Capris to Camaros, McLarens to MG's. 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.

EASY ON THE WALLET

Admission is just \$3.00 for Saturday, \$5.00 for Sunday, or \$6.00 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) 623-0444.

EASY TO GET TO

Chances are you live within a few minutes of the Midwest's premier road course. The W.H.R.I. Race Track is located just 6 miles north of Pontiac on Waterford Road, 1/4 mile east of Dixie Highway (U.S. 10) in Waterford, Michigan. The easiest route to take is 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.

THE WATERFORD DIGEST

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