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By choosing **MOTOROLA's MIR-3500 state-of-the-art water and irrigation management system**, you are joining the exclusive and rapidly growing club of progressive and further-thinking golf and landscape superintendents—users of the further-thinking MIR-3500 SYSTEM.

## GOLF COURSES, COMMERCIAL TURF AND PARKS:

Chuck Clark and Tommy Anderson at **THE BROADMOOR RESORT** in Colorado Springs (54 Holes)

- Jim Ward and Ken Novac at the **ENCINO G.C., Los Angeles**
- David Hughes at **MOUNT PROSPECT G.C., IL**
- Peter Voykin at **TWIN ORCHARD G.C., Chicago (36 Holes)**
- Richard Gineven at **WILSON G.C., City of Los Angeles**
- Harry Kennedy at the **HARDING G.C., City of Los Angeles**
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- Harry Kennedy, **GRIFFITH PARK, City of Los Angeles**
- John Anders, at **ALLERGAN, Irvine, CA**
- Bill Cobb at **TRILAND DEVELOPMENT, Dallas, TX**
- Mike Prevost at **FEDERAL EXPRESS, Nashville, TN**
- MARY KAY COSMETICS, Dallas, TX**
- TRW, San Diego, CA**

*Sorry, Joe, we just can't enter them all ....*



**MOTOROLA**

WE SET THE STANDARDS

**"There's a lot of talk about computerized irrigation and its place in golf/turf irrigation, but who really has the products and systems we need now?"**

**While Others Just Promise—MOTOROLA Delivers**

# ROOKIES

## PRODUCT UPDATE

### PERSONAL GOLF CAR



Providing the usefulness of a golf car at a price a golfer or retired individual can afford is the mission of the new Americar by E-Z-Go. Two models have been designed for personal use in retirement and resort communities as well as on the golf course. They are built to the same standards as E-Z-Go's fleet golf cars.

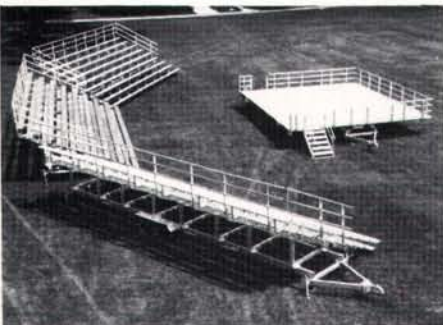
The two-seat Spirit and the four-seat Liberty feature as standard equipment dual headlights, dual tail and brake lights, horn and front bumper. Options include sun canopy, windshield, battery recharger, charge indicator, sweater basket, wheel covers, turn signals, hour meter and a choice of tires.

The electric cars are ideal for the individual in contained communities who needs a convenient form of short-distance transportation, claims Dave Johnson, director of marketing.

#### E-Z-GO/TEXTRON

Circle 116 on Postage Free Card

### MOBILE STANDS



Seating for special games or golf tournaments is simplified by Stadiums Unlimited. Trans-Stand and Trans-Stage are easily set up and relocated. The light-weight aluminum units can be towed by any standard vehicle and are licensed for towing over state and federal highways. They can be set up by two people in 30 minutes.

Trans-Stand units are available to seat from 200 to 250 people safely. When folded for transport, they are eight ft. wide. Grounds jacks are used to level the units when unfolded. Side guardrails telescope into position during use.

Trans-Stage is available in sizes from 30 to 40 ft. wide and 24 ft. long. It also has railings and is set up in less than 30 minutes. Both mobile units are constructed of maintenance-free aluminum or hot-dipped galvanized steel. They can be used indoors as well as outdoors.

#### STADIUMS UNLIMITED

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### VERSATILE IRRIGATION NETWORK



An IBM XT personal computer is the hub of operation for Toro's new irrigation and landscape network. This central computer coordinates operation of up to 800 satellite controllers for irrigation, lighting, or pumping by two-way communication. Utilizing feedback from satellites and input on weather, geography and agronomics, the Network 8000 can save energy, water, labor and money by adjusting programs for up to 25,600 stations.

The personal computer is programmed to be easy to operate and includes a matrix printer, color monitor and light pen. It can be used for irrigation and business functions simultaneously. The central programmer can operate any station, set the running time, assign it to any program and set up to three repeats for any station.

The stand-alone satellites receive, store and send all commands generated from the central computer. They report back to the central computer key factors such as program status, station failure or changes at the satellite. The solid-state satellites control up to 32 stations, each with up to three

electric valve-in-head solenoids.

The versatility and extra control provided by the Network 8000 allow more precise operation of irrigation and other landscape and business functions.

#### TORO IRRIGATION DIVISION

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### MULTI-PURPOSE TRACTOR



Available in large and mid-size models. Bunton's Multi-Trac multi-purpose maintenance tractors are powered in a choice of 52 hp or 22 hp water-cooled diesel engines. The Multi-Tracs feature a quick connect/disconnect system that allows changing of front-mounted implements in minutes, without tools.

General maintenance implement attachments include fork lift, snowthrower, dozer blade, multi-purpose bucket and vacuum sweeper. Turf maintenance implements include seven-, five- and three-gang reel mowers, rotary mowers and flail mower.

Bunton Multi-Tracs are designed for any facility requiring a variety of maintenance functions or year-round maintenance. These include schools, parks, country clubs, sports facilities, military installations, golf courses and industrial complexes.

#### BUNTON CO.

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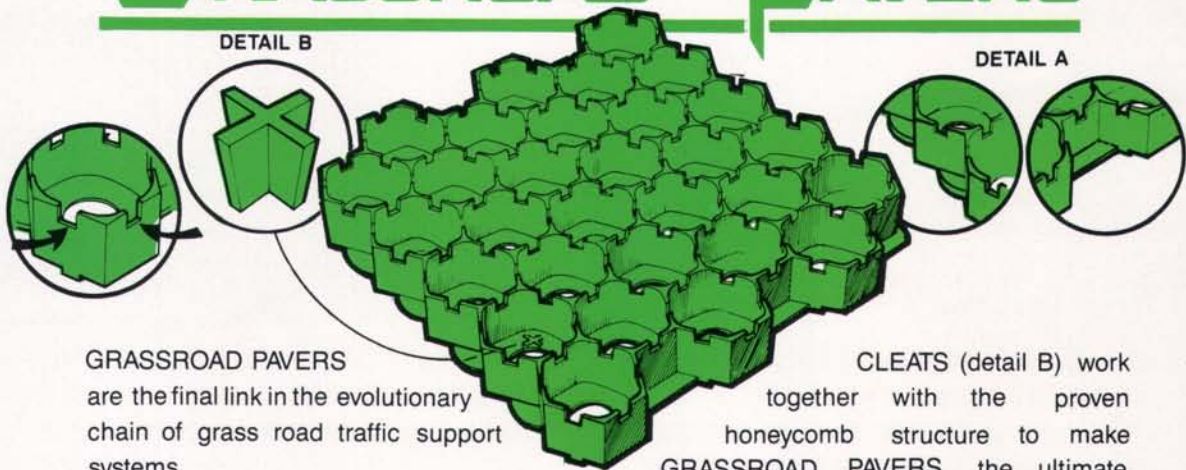
### SLOW FEED LIQUID

Slow release nitrogen can now be applied in liquid form with Fluf. The patented suspension of flowable urea provides continuously even and moderately slow release of nitrogen to turf. It is safe to apply in the summer, is non-burning and will not leach out of the rootzone like other liquid fertilizers. The slow release fertilizer is compatible with most turf pesticides and other fertilizer products. Fluf comes in 2 1/2 gallon containers and 55 gallon drums.

#### W. A. CLEARY CHEMICAL CORP.

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# THE "FINAL" LINK IN GRASS ROAD SUPPORT SYSTEMS



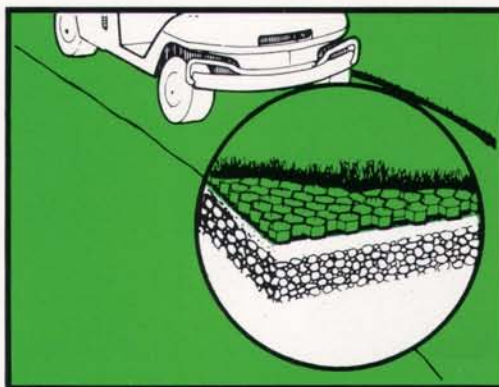
GRASSROAD PAVERS are the final link in the evolutionary chain of grass road traffic support systems.

The FLEX-LOCK nesting system (detail A) combined with the GROUND-LOCK

CLEATS (detail B) work together with the proven honeycomb structure to make GRASSROAD PAVERS the ultimate, natural grass traffic support system ever designed.



"SUPPORT YOUR LOCAL FIRE TRUCK"



"UTILITY, PICK UP AND GOLF CARTS TOO"

**BARTON CORPORATION**

10 Hughes St., Suite A106, Irvine, California 92714, (714) 859-2705

# ROOKIES

## PRODUCT UPDATE

### LARGE TOPDRESSER



Uniformly spread up to one inch of any topdressing with the large capacity Turf-Topper from Bannerman Ltd. Powered by a tractor PTO, the unit spreads any combination of sand, loam, peat moss, manure or fertilizer through a floor conveyer and contra-rotating spreader cylinder. The unit holds three cubic yards of material fully loaded. Large flotation tires protect turf from compaction or tire damage.

Any tractor with 25 PTO horsepower can drive the Turf-Topper. The unit weighs 1950 lbs. empty and spreads a six foot swath of material. As little as 1/4-inch of topdressing can be applied.

**BANNERMAN LTD.**

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### BACKHOE/LOADER



Five years of research and computer-aided engineering preceded the launch of Caterpillar into the backhoe/loader market with the Cat 416. Part of a full line of backhoe loaders, the 416 adds a new dimension to the Caterpillar line of excavating equipment.

56 *sportsTURF*

Engineers concentrated on comfort and sound levels as well as stability, serviceability and durability. The operator's compartment is isolation-mounted to the main frame to reduce noise and vibration. Controls and gauges are designed and located for operator convenience.

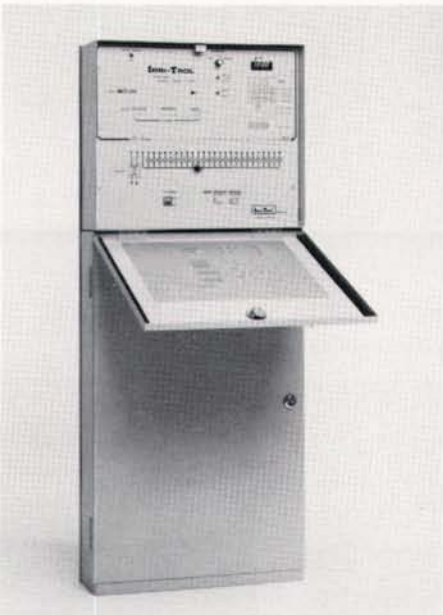
Extra stability of the 416 is provided by an overcenter backhoe combined with a load-sensing hydraulic system. The backhoe bucket rotates 194 degrees and can dig deep on vertical faces.

A one-piece, welded, integral chassis distributes digging stresses on the frame and not on the drive line. A Perkins 4-236 powers the backhoe loader and a four-speed fully synchronized transmission with torque converter drives it. The 416's hydraulic system provides maximum dig forces at slow speeds without excessive engine lug for nearly 30 percent greater fuel efficiency.

**CATERPILLAR**

Circle 318 on Postage Free Card

### TURF CONTROLLER



Additional flexibility and control are the leading features of three new turf irrigation controllers from Irri-Trol. The MC Series provides solid state accuracy in controlling 12 to 24 stations. The 23-key panel can operate three fully independent programs plus a syringe program. Up to 12 starts per day for up to ten hours and one syringe start for nine minutes are possible with the controllers.

Water budgets can be changed by instructing the controller to either increase

or decrease by percentage the watering times on all stations. The display tells the operator the amount of watering time remaining on any station and the total time for all stations. These times can be reduced or increased from one to 255 percent to fit water consumption to budgets.

Stations can be tested individually, by selected station, or as a group. Three models, of 12, 18, and 24 stations, are available now for new systems or updating older systems.

**IRRI-TROL MFG. INC.**

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### SPRINKLER CART



Because of its light construction, the Bauer Rainboy Automatic Sprinkler Cart is especially well suited for watering golf courses, playgrounds, football and baseball fields, school and university grounds, parks and cemeteries.

Its large wheels and high efficiency with low water pressure make it an excellent irrigation system for small growers and hobby farmers, helping them save both time and labor.

All moving parts are secured behind protective covers for safe, unattended operation. The retraction speed gauge and turbine efficiency tachometer enable the operator to vary its watering rate to suit existing conditions.

The sprinkler's automatic cart pick-up doubles as a wheelbarrow-style manual transport. Its handy tow hitch and "easy roll" weight-balanced tires make it extremely easy to move and handle with a tractor.

The Rainboy's patented "mini-turbine" drive has proven extremely efficient in low-pressure and low-flow applications. Because there is no open flow discharge, operators can avoid the excessive puddling normally found with bellows drive carts.

**BAUER U.S.A.**

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# Cal-Turf® is sportsturf for everyone!

Cal-Turf sod has seen long and extensive use in stadiums, athletic/sports complexes, college and school playing fields, and with municipalities, parks and recreational facilities. Its outstanding performance as a high-traffic turf makes it the right choice for your SPORTSTURF.

Our STOLON PLANTING SERVICE is a fast, economical method of planting hybrid bermuda grasses.

- Experienced, knowledgeable professionals are *personally* involved with every job.
- *Fresh sod* shredded and planted on site.
- Ensures optimum stolon-soil contact.

Sportsturf is available in Hybrid Bermuda TIFGREEN and SANTA ANA.

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# ROOKIES

## PRODUCT UPDATE

### LIQUID FERTILIZER

A controlled-release liquid fertilizer for turf is now available nationwide called Nitro-26 CRN from Growth Products. The fertilizer was developed in the late 70's specifically for turf applications where no phytotoxicity and a longer nitrogen release are required. It is a true solution containing 80 percent methylene diurea and 20 percent urea and requires no agitation and is stable for more than eight months and at high temperatures. It is compatible with other commonly used turf care chemicals.

#### GROWTH PRODUCTS

Circle 279 on Postage Free Card

### SPRAYABLE SURFLAN

Elanco wants sports turf managers to try their preemergence herbicide Surflan 4AS so much that it will give purchasers spray gear until August 31, 1986. The herbicide can be sprayed over the top of ornamentals to prevent germination of weeds in the planting bed or it can be combined with

Roundup to keep weeds from regrowing in utility areas. One application of Surflan keeps out a broad spectrum of weeds for up to eight months.

A Solo backpack sprayer or Chem-Lawn spray gun will be given to purchasers of 50 gallons, or a Solo Hanjet compression sprayer comes with a purchase of 15 gallons.

The Solo backpack sprayer is equipped with a pressure regulator and a two-nozzle spray boom. It holds four gallons of spray and is manually operated for complete mobility. The Chem-Lawn gun is available with a choice of nozzles for delivery of two to five gallons of spray per minute. The compression sprayer is a hand-pump unit delivering 2-1/2 gallons of spray.

#### ELANCO PRODUCTS CO.

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### DIESEL RIDING MOWERS

Longer engine life and a small turning radius are features of this new riding out-

front rotary by John Deere. These advancements were announced in September by the company as part of a major move into the professional turf maintenance market.

The F935 packs 22 diesel horsepower from a three-cylinder, liquid-cooled engine for commercial heavy use. The out-front rotary unit cuts a 76-inch swath for fast work on large areas. A third spindle on the trim side enables the mower to leave an uncut circle of less than seven inches without braking.

Deere is also making differential lock standard equipment on all out-front rotaries. Also standard are side-by-side, dual-pedal foot control system with cruise control, power steering and hydrostatic transmission.

In addition to the gas and diesel-powered out-front mowers, the company has added sweeper, thatcher, snow blower, and vacuum attachments plus a cab.

#### JOHN DEERE

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# SCOREBOARD

## CLASSIFIEDS

CLASSIFIED RATES: \$35.00 per inch payable in advance. One inch minimum. There are about 50 words per inch. Classified advertising is not commissionable. Ads using special borders will be billed at display rates. Blind box numbers are available. Replies to all box numbers should be addressed to SportsTURF, P.O. Box 156, Encino, CA. 91426-0156.

#### SAND SLITTING FOR DRAINAGE

Our patented equipment can cut a narrow slit, install a **Mini-Drain** and inject sand in one neat operation which leaves the field playable.

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to your drainage problem

Phone (205) 492-7847, 24 hrs., 7 days or write

#### CAMBRIDGE SOIL SERVICES

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