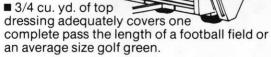
## If filling your top dresser takes longer than application ...you need a Mete-R-Matic II



Replace the outmoded man-and-shovel method with a bucket-loaded Mete-R-Matic II top dresser and its 3/4 cu. yd. hopper capacity.



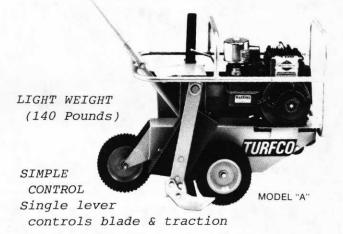
- Unit pressure (psi) on turf is similar to selfpropelled type top dressers.
- Mete-R-Matic II has a five-foot wide spread with consistent, even application.
- Motorless Mete-R-Matic II features a simple, pin hitch hookup.



Self-propelled Mete-R-Matic Top Dresser . . . the original, proven method of conveyor and rotating brush.

## All-new self-propelled

All-new, self-propelled Turf Cutter



Cuts 12" wide sod at up to 75 fpm



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## HOLE NOTES

OFFICIAL PUBLICATION OF THE MINNESOTA GOLF COURSE SUPERINTENDENTS' ASSOCIATION

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## FROM THE PRESIDENT'S DESK

DON LINDBLAD

The March Mini Conference was very well attended and probably a record breaker. I hope everyone who had questions got them answered. We surely had all the right people to answer any of the wide variety of questions that came up.

I believe Keith Scott and Mark Smith are progressing toward greater involvement by this association and other turf related associations in having an equipment display show sometime in June.

Please be aware that the Minnesota Golf Association has just published its new list of course ratings that now carry a slope number as well as the regular course ratings. The slope is the evaluation of the difficulty of a course as it affects the higher handicapper. This new wrinkle will allow the higher handicapper to increase his handicap on a difficult course but, alas, on the other side of the coin, he must decrease his handicap on easier courses. The average slope for men is 113 and for ladies 100. Since the accuracy of course rating depends so much on yardage, the superintendent must make sure by correct rotation of tee markers that the course plays the distance it was rated from at all times.

What I like to call our "spring opening meeting" is being held at Owatonna Country Club this year. I know Randy and his staff will be ready because he knows so many of us are more than ready to start playing some golf along with the fine educational subjects that are given to us at each one of our monthly meetings. Hope to see an even bigger turn out at Owatonna than we had at last year's April meeting in Mankato.

## "THE VALLEY'S" NEW SHOP



by LARRY D. MUELLER SUPERINTENDENT MINNESOTA VALLEY CLUB

Minnesota Valley Club was purchased by Painter's International Pension Fund in 1980. The union has entered into a joint venture with Pemtom of Bloomington to build condominium units on the property in the form of six buildings each containing 60 units. They will do this and still maintain as 18-Hole golf course. Proposed golf course design changes were made by Arnold Palmer Design Co. with Ed Seay, architect.

After operating for many years from an old barn that had been converted to a workshop, in March of 1982 I was informed the first condominium complex would be constructed on that site. Construction would begin in the fall. I was to make plans for a new shop.

I began by talking to my assistant, mechanic and crew to see what features they would like in a new building and then proceeded to visit some of the area's superintendents to see their maintenance shops. They were very helpful in sharing their ideas and experiences.

We then worked out the square footage needed for storage and workshop and came up with a total requirement of 12,000 square feet. A 60 x 200 foot building gave us the best floor plan and fit into the site which had already been determined by the golf course architect.

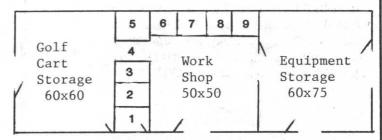
My wife became involved at this point, drawing out the floor plan presentation to the general contractor.

project developer, Pemtom, the automatically became general contractor and that worked very well for us.

City codes controlled the materials used in construction. Because of the lack of city water at the site, no wood was allowed. It must be a fireproof building.

Construction began right Thanksgiving and all the cement block was laid by Christmas. The weather was mild and the contractor missed only two days during that period because of cold.

The shop is constructed of 12 inch cement block with a steel truss flat roof, steel doors and steel studs where there are room partitions. It is divided into three separate sections. Ceilings are 16 feet high.

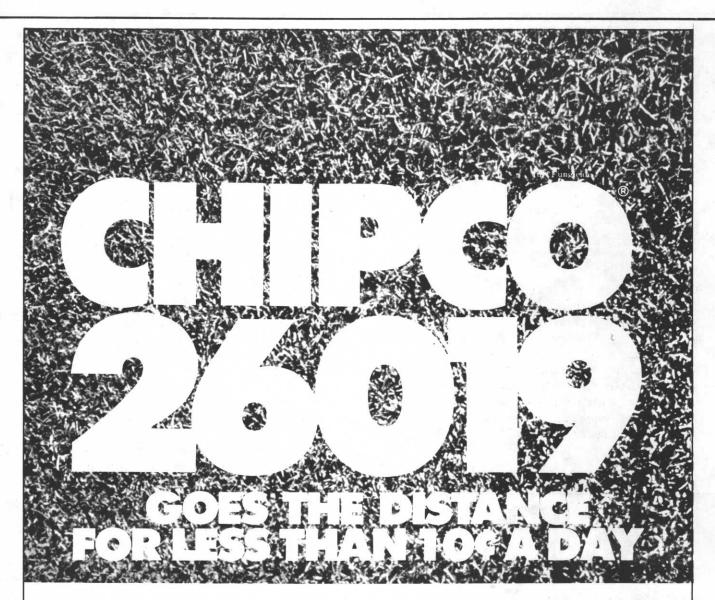


- 1 Supt's. Office 6 Ass't-Mech Office
- 2.3 Bathrooms
- 7 Parts-Tool Room
- 4 Wash Rack
- 8 Chemicals
- 5 Lunch Room
- 9 Paints

The west section is 60 x 60 feet and designed for golf cart storage in the and for greens covers. winter fertilizer, topdressing miscellaneous equipment in the summer. It comfortably holds 70 golf carts. The exterior overhead door is 12 x 14 feet. There are two service doors.

The east section is 60 x 75 feet in size and used for golf course equipment storage. This area has two 12 x 14 foot exterior overhead doors with service doors next to them.

The middle section of the building, 60 x 65 feet in size, is the only section that is heated. In here is a  $50 \times 50$ foot work shop area surrounded on two sides by offices, bathrooms storerooms and lunchroom. The workshop has a 12 x 10 foot exterior overhead door and a 12 x 14 foot overhead door to the equipment storage area. Both of these doors are insulated. continued on Page 5



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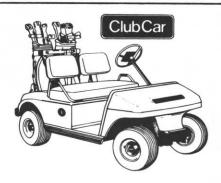
Off this main shop area is a wash rack,  $15 \times 15$  feet. This area has hot and cold water as well as a floor drain that continues the entire length of the building. This also is the driveway from the shop into the west storage area serviced by an insulated  $12 \times 12$  foot overhead door.

The workshop and washrack area has gas radiant heat which is very confortable, heating the floor and objects in the room. It is also more efficient than forced air heat and has a faster recovery after overhead doors are opened during cold weather.

Off the shop area are a parts and tool room, a chemical storage room and a paint storage room.

The lunch room is 15 x 15 feet. In here we have a cabinet with double sink, refrigerator and microwave oven. It is also our conference- meeting room. I wish I had made it a little larger as it gets a little crowded in the summer.

There are two offices, each one with a window looking into the main work shop.



## THE CLUB CAR DIFFERENCE

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1984 GAS AND ELECTRIC

## Egeberg's Golf Cars

2526 24TH AVENUE SOUTH MINNEAPOLIS, MINNESOTA 55406







My assistant and mechanic share an office where they can keep all equipment records and parts books. They also have their own phone line which works out very well.

There are two bathrooms, one with a shower.

All of these rooms off the work shop area are heated by a forced air gas furnace with underground duct work.

Since the offices and storerooms have 8 foot ceilings a mezzanine storage area over them is nice for items that are seldom used.

Lighting in the work area and adjacent rooms is fluorescent. Conventional lighting was used in the east and west ends of the building.

Each section has its own ventilation system.

Garage door openers were installed on the three insulated overhead doors and a burglar alarm system was installed throughout the building because of our somewhat remote location.

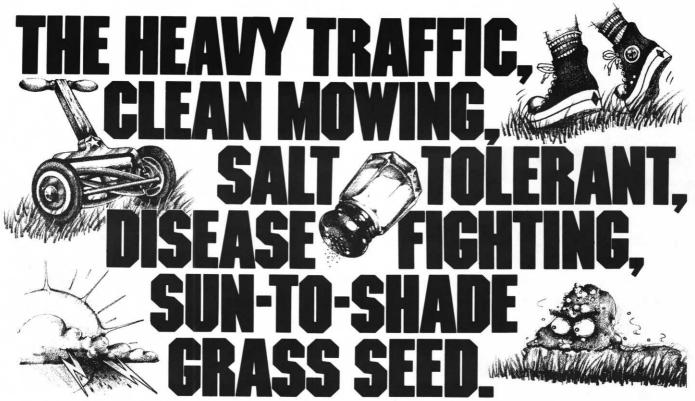
We have blacktop drives and parking around the building. There are steel guard posts by each exterior overhead door. Our gas pumps are in easy view of the mechanic and the superintendent's office.

The building was completed and approved for occupancy the first week of April 1983.

We think our building has a good traffic flow with easy access to all areas and are happy with the way it turned out. Anyone interested in seeing it is welcome to stop in for a visit and tour.

## FOR SALE

- 1. 1965 Toro Parkmaster equipped with 1968 Toro gang mowers. Very good condition. Engine completely rebuilt in 1982.
- 2. 1974 Cushman topdresser. Like new.
- 3. Old Ryan sodcutter.
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- 5. 1972 Toro Sand Pro
- 6. WISH TO PURCHASE USED SPRAY HAWK
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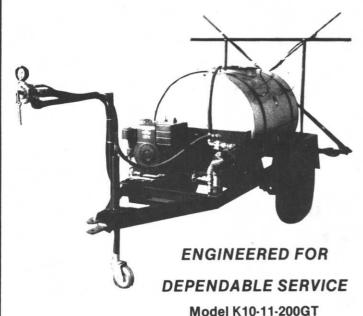
No one grass seed combines every characteristic for every type of turf. That's why Northrup King research has developed a complete line of Medalist Turf Products to meet specialized professional needs.

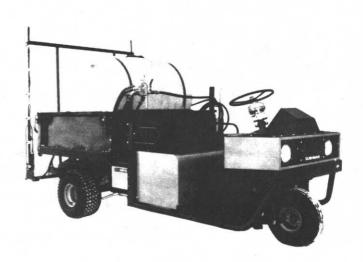
MEDALIST TURF PRODUCT	<b>MAJOR AREAS OF USE</b>	SPECIAL FEATURES
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Ask your Northrup King distributor about the Medalist Turf Products for your needs. Or write Northrup King Medalist Turf Products, P.O. Box 959, Minneapolis, MN 55440.



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Use this skid mounted sprayer to greatly increase the versatility of your Cushman type utililty vehicle! Minnesota Wanner quality and these features make a great combination:

- 110 gallon polyethylene tank on skid mounted frame which attaches to vehicle cross member for easy hookup.
- Rugged 75 G.P.M. capacity centrifugal pump powered by P.T.O.
- · Large volume jet agitator keeps chemicals thoroughly mixed.

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- 15 foot three section boom to cover large areas. Boom equipped with 10" nozzle spacing, two sets of tips and check strainers. Boom has breakaway hinges and folds vertical for easy transportation. Boom section mounts in sleeve on tank skid for quick installation and removal. "Tee Valve" gives complete control of three section boom, allowing operator to choose any combination of boom sections for optimum coverage.
- Trigger type gunjet with 50 ft. of hose can deliver fog or a straight stream to reach hard to get areas.

Minnesota Wanner manufactures a complete line of quality trailer and skid mounted sprayers, turf care accessories, including lawn carts and root feeder needles, as well as custom designed units.

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The pioneers in golf course grooming couldn't have known that seaweeds contain unique hormones that stimulate cell division and delay senescence in turfgrasses. They simply knew that areas treated with sea plant compost seemed healthier and more resistant to stress. Neither could they have known that pasture manures contain unique amino acids that are beneficial to turf. They just observed that turf fertilized with these materials was noticably heartier, denser and greener.

## TODAY'S TECHNOLOGY

REFINING THE BASICS

Today, researchers are identifying the key constituents responsible for the many benefits associated with these natural materials. And sophisticated processing technologies have been developed to extract and preserve these beneficial constituents making possible a new generation of safe, natural, highly effective products.

Each of our products has two things in common. They meet the exacting standards of consistent mesh size and gallon-to-gallon consistency demanded by today's turf professionals. And in their natural state they have proven their effectiveness over, literally, cen-

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Farmura complements any fertilization program. It's an herbally reodorized, liquified pasture manure that's rich in micronutrients and amino acids. Farmura is ideal for "lean and mean" low N fertility programs. Farmura is used on most of the top courses throughout the British Isles including Birkdale – site of the 1983 British Open.



SAND-AID
Granular Sea Plant Meal

soil conditioner and topdressing constituent



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- REDUCES COMPACTION
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  & NUTRIENT RETENTION IN SAND

Sand-Aid granular sea plant meal contains a carbohydrate unique to sea plants. It's electrochemical action neutralizes the negative charge on clay particles helping reduce compaction. In sand, it develops into a porous aggregate which reduces water loss.

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## ASSOCIATES' CORNER FROM AIRCRAFT TO TOP DRESSERS

By Scott Kaercher Turfco Mfg. Inc.

Turfco Mfg. Inc. is the result of a chain of events that started during the mid 1920's when Frank Ditter designed and built an airplane in a North Minneapolis garage. He called this business adventure Federal Aircraft Works. Upon completion this airplane was taken to Wold-Chamberlain Speedway for its initial test flights. tests were conducted by Speed Holman. The plane was very advanced for the time. It was the first aircraft in this area with an enclosed cockpit. Unfortunately, one night a tornado swept through the Speedway and destroyed many of the airplanes stored there, including "Federal Aircraft 1".

After this financial setback, and at the request of the other pilots, Frank started manufacturing skiis for landing aircraft on snow. This phase of the business sus-

tained itself until the end of the depression when Frank moved the company to its present location at 3456 N. Washington. During World War II Federal manufactured many items for the war effort, including engine hoists for servicing aircraft. The most notable accomplishment of Federal Aircraft Works was the design and manufacture of the skiis for the aircraft used by Admiral Byrd for the North and South Pole Expeditions. One of Byrd's "R4D" Aircraft is in the collection at the Naval Air Museum in Pensacola, Florida. skiis are still intact.

In 1953, Frank Ditter decided to diversify Federal Aircraft into another market by collaborating with Olaf Rogneby on the design and manufacture of a sodcutter. The "Professional" sodcutter was the first product of the SodMaster Division. in cooperation with Art Cohrs and Bennett Larson of the Minneapolis Golf Club, Sod-Master introduced the first Mete-R-Matic Between 1961 and 1964, topdresser (1961). SodMaster also introduced the Bantam Sodcutter, the Edge-R-Rite Sandtrap Edger, and the Pipe Piper Oscillatory Pipe and Wire Plows. continued on Page 11

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