

Pair for the Course



Pennncross Penneagle

Pennncross greens are known around the world for their consistent, high quality putting surface. Pennncross has genetic diversity assuring disease resistance . . . germinates fast, establishes quicker . . . superbly consistent, less grain for true putts . . . greens up earlier, holds summer color better . . . great for overseeding winter greens in south.



**PENNCROSS
BENTGRASS**

Penneagle was developed through 18 years of research and 5 years of testing. This new variety of creeping bentgrass has these selected attributes of a great all-purpose grass for the entire course. Penneagle has a broad genetic base for greater climatic adaptability . . . is not overly aggressive, but competitive with *Poa annua* . . . has tight, more upright growth characteristics . . . is finer leaved than most bents . . . has excellent putting and playing qualities . . . was bred for disease resistance.



PENNEAGLE



TEE2GREENCORP.

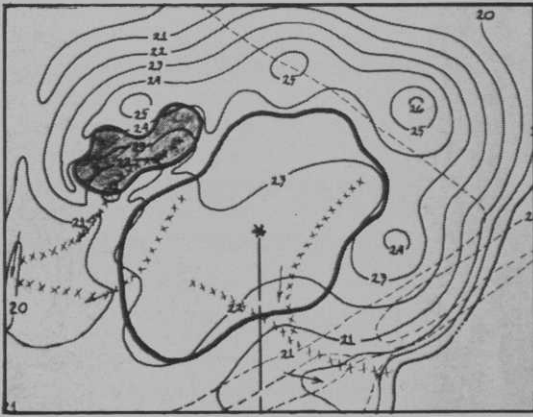
12306 West 102nd Street Lenexa, Kansas 66215

913-492-1587 Call collect for your nearest dealer

For more information about Pennncross or Penneagle write:

Pennncross Bentgrass Growers Assn.
1349 Capitol N.E., Salem, Oregon 97303

Write 140 on reader service card



Greens/p. 9



Poa/p. 15



Goosegrass/p. 24

Golf Business / october

VOLUME 54
NUMBER 10

EDITORIAL:

RON MORRIS
Managing editor

RAYMOND L. GIBSON
Graphics director

KRIS TAPIÉ FAY
Graphics assistant

FOUNDERS:

HERB GRAFFIS
JOE GRAFFIS (1895-1979)

BUSINESS:

RICHARD J. W. FOSTER
Publishing director

JAMES R. BROOKS
National sales manager

SHARON JONES
Circulation manager

CLARENCE ARNOLD
Research manager

CHRIS SIMKO
Advertising production

NANCY WILKINSON
Communications & promotion manager

CORPORATE OFFICERS:

JAMES MILHOLLAND JR.
Chairman

A. VAL BRADLEY
President

DAYTON MATLICK
Sr. vice president

CHARLES QUINDLEN
Sr. vice president

RICHARD J.W. FOSTER
Vice president

Member:



FRONT COVER:

Seen through the trees in late Fall, this green on the Purdue University courses in Lafayette, Indiana, will have a lovely seclusion as the leaves come out in Spring.

Clippings	4
News	6
Landscaping the green In part I of this series, French and Korbobo illustrate how landscaping can make a hole memorable	9
Converting poa with a pythium twist Denver Superintendent Jim Young used an aerator in his battle and found that young ryegrass survived pythium	15
GOLF BUSINESS South	
USGA report: The Southeast Agronomist Charles White gives an overview of the problems Southeastern superintendents face daily	20
Controlling goosegrass with herbicides B. J. Johnson relates what he has found during his research and what problems and successes can be expected	24
Classified	30
Viewpoint	30



GOLF BUSINESS (USPS 049210) (formerly Golfdom), published monthly and copyright© 1980 by The Harvest Publishing Co., a subsidiary of HBJ Communications and Services Inc. All rights reserved. No part of this publication may be transmitted or reproduced in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the publisher. Address: 9800 Detroit Ave., Cleveland, Ohio 44102. Subscriptions sent free to qualified management personnel at golf facilities. All others, including elected club officials: \$18 per year in U.S. and Canada; foreign, \$24 per year. Single copy price: \$1.50. Send subscription requests and change of address notice to above address. Controlled circulation paid at Cleveland, Ohio. Postmaster: Send Form 3579 to GOLF BUSINESS, P.O. Box 6951, Cleveland, OH 44101.

Clippings

Brief bits of news from in and around the golf business.

There was an identification error in the August issue. In the article, "New Concepts for Landscaping Tees," Forsgate CC was identified as Faragote. It also crept in on page 32 of Part II in the September issue. We apologize and congratulate the Forsgate CC for such fine landscaping.

☼ ☼ ☼

Stanley Zontek, Director of the Northeastern Region of the USGA Green Section, noted in the June, 1980 issue of *The Greenmaster* that a narrow collar around the green might speed up play. In his example, he states that a ball "will tend to roll a greater distance from the putting green surface" on a wide collar, facing a golfer with a longer chip shot. On a narrow collar, the ball would stop closer to the pin, with a better opportunity for play. This might mean speedier play by decreasing the number of strokes a golfer might have to take.

☼ ☼ ☼

Florida Golfweek has reported that twenty members of the Florida

Golf Management Association reported an average revenue per golf car, of \$1,850.60. The reported high was \$2800 per car. The high figure was from a course which charged \$3 in summer and \$5 in season. The course charges a \$350 trail fee for private carts, does not make carts mandatory, and expects a battery life of two years. It is an 18-hole semi-private club.

☼ ☼ ☼

The Irrigation Association has published a booklet entitled "Guidelines for Involvement", which is subtitled "How Can We Make Our Voice and Opinions Heard and Recognized?". If you are interested in influencing the plight of your profession, the booklet spells out how to do it. Copies are available for \$5.00 from The Irrigation Association, 13975 Connecticut Avenue, Silver Spring, MD 20906.

☼ ☼ ☼

E-Z-Go Textron and Golf Car Systems, Inc. in Clearwater, Florida have announced a national joint marketing and service agreement. Golf Car Systems will market the E-Z-Go cars under their GCS full maintenance program. The program will be offered by both E-Z-Go and GCS throughout all the

golf car manufacturer's U.S. factory branch territories. The purchase agreement means that GCS will lease the gas and electric 3- and 4-wheel cars to private clubs and resorts.

☼ ☼ ☼

Merit Kentucky bluegrass has been released to International Seeds in Halsey, Oregon, for production and marketing on a world-wide basis. Merit is licensed for sale in Canada as Regent Kentucky bluegrass and has been tested at a variety of Canadian locations since 1972. Merit was recently approved for inclusion on the OECD approved cultivar list.

☼ ☼ ☼

Lofts has a new grass seed mixture called "Summer Stress". Formulated for tolerance to summer heat and drought, Summer Stress includes 90 percent Rebel turf-type tall fescue and 10 percent Baron Kentucky bluegrass.

☼ ☼ ☼

Lofts Pedigreed Seed held its fourth annual Field Day recently at its Martinsville, N.J. Research Farm. Some 400 attendees viewed over 3,000 plots that Lofts maintains for research. The

afternoon session began with a discussion on *Fusarium roseum* with Robert O'Knefski, Cooperative Extension Agricultural Agent of Nassau County, Dr. Reed Funk of Rutgers University, and Dr. Noel Jackson of the University of Rhode Island. Dr. Henry Indyk of Rutgers led a discussion on Fall fertilization.

☼ ☼ ☼

Paul Voykin, at Briarwood CC has installed the first 2-row Rainbird system in the Chicago area. Halloran and Youch of Glenview, Illinois did the installation, the new pumphouse, and the lake fill line. The superb Briarwood installation, is in Paul's opinion, one of the best in the country and has performed well beyond his expectations during the summer with its record hot temperatures, humidity and wilt.

☼ ☼ ☼

Dr. William Meyer of Turf Seed in Hubbard, Oregon, has developed a new variety of chewings-type fine fescue called "Shadow". The variety was screened for powdery mildew resistance and has shown improved resistance to leaf spot. It is described as having a medium dark green color with leaf width similar to Banner or Jamestown.

INTRODUCING SAFE-T-LAWN'S® COMMERCIAL EQUIPMENT LINE



SAFE-T-LAWN, INC.

Home office
5350 NW 165 St.
Hialeah, FL 33014
(305) 615-7000

Service Center/
Western Warehouse
5644 E. Westover No. 103
Fresno, Ca. 93727
(209) 291-457

Central Warehouse
6925C E. Lancaster
Ft. Worth, Tx. 76112
(817) 457-8000

Write 148 on reader service card

Now's the time for Aquashade
... Stops water weeds
as it filters sunlight.
... Also turns pond
a natural blue.
... Simple and proven.
... Harmless to fish, wildlife,
livestock and humans.



P.O. Box 198
Eldred, N.Y. 12732
(914) 557-8077

— "Dealer Inquiries Welcomed" —

Write 116 on reader service card

Now the Cushman[®] Runabout

Rolls up even greater savings.

Labor savings. Cost savings. All rolled up in one turf utility vehicle.

That's what the Cushman 18-hp Runabout is all about. And now, with 50% greater payload capacity, it can save you even more on those big turf jobs.

The 18-hp Cushman Runabout can mobilize a grounds maintenance crew of two, and haul up to 1,500 pounds of cargo. So your men can carry more equipment or supplies in the Runabout's standard 4½' pickup box, saving trips from supply areas to the field.

The Runabout is a labor-saver from the word "go." Its wheel-type steering and tight 17' turning circle make the Runabout maneuverable and easy to handle. Special tires make it easy on turf, too—even under full load. And its 3-speed synchromesh (second and high) transmission and heavy-duty tubular steel frame make the Runabout about as reliable a turf vehicle as you can find.

Choose from a full-line of accessories too, like an enclosed cab, hourmeter and tool box, to make your Runabout even more versatile.

For even greater savings, the fuel-stingy 12-hp Runabout lets an operator handle 1,000 pounds of cargo with responsive

handlebar steering. And, like its big brother, this Runabout runs on regular gas, and is backed up by Cushman's worldwide dealer network.

To see how the Runabout can roll up savings for you, ask your Cushman dealer for an on-turf demonstration soon. Or complete and return this coupon, today.



81-CUT-2

CUSHMAN[®]

The Labor-Saving Turf System

Cushman, tell me more about the Runabout.

- I'd like a demonstration of the Runabout.
 - 18-hp 12-hp
- Send me your new 1981 Cushman Turf Catalog.

NAME _____ TITLE _____

COMPANY _____ TELEPHONE _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

1000 Cushman, P.O. Box 82409, Lincoln, NE 68501
Call: 402-435-7208

© Outboard Marine Corporation, 1980. All rights reserved. E431020

News



Watkins



Choate

Watkins, irr. author to retire this year

James A. Watkins, author of the *Turf Irrigation Manual*, and director of training for Weather-matic's College of Irrigation Knowledge® will retire at the end of this year. He has been a part of the turf irrigation industry for more than 45 years and served as director of training for Weather-matic since the college was opened in 1967. He has conducted 120 classes during that time. The current version of his book is now in its second printing and is used by colleges, universities and irrigation designers worldwide.

Watkins has served on the

Telsco Industries Board of Directors since 1951. He has traveled world-wide as irrigation lecturer and consultant, and has assisted the American Society of Plumbing Engineers, the Texas Turf Irrigation Association and the Better Business Bureau in the development of industry standards, testing and consumer protection guidelines.

Richard B. Choate has assumed the post as director of training, while Watkins will continue as consultant for Weather-matic on special projects such as future revisions of the *Turf Irrigation Manual*. Choate has 21 years of experience as an irrigation designer, including 13 years as training instructor and chief systems design consultant for Weather-matic.

More people golfing despite inflation

Overall golf participation increased by 7.1 percent during the second quarter of 1980 despite inflation and recession, according to the latest figures released by the National Golf Foundation. Coupled with a 9.6 percent gain in the first

quarter, the growth rate is running at 7.1 percent, compared with 4.4 percent at this point last year.

Some reasons for the increase include the fact that people are staying closer to home because of the high fuel costs. Forced labor layoffs are creating more leisure time with unemployment pay. Some regions, however, did report decreased play. The Mountain region, which includes Washington and Mt. St. Helens, reported a 41 percent decrease. The Mountain region reports a 41 percent decrease and the South Atlantic reported a 28 percent decrease.

The biggest gains came in the West North Central region with an 18.8 percent increase, and the South Central with an 8.8 percent increase.

Trade Comm. revokes golf car dumping

The U.S. International Trade Commission published in the June 11, 1980 Federal Register, their determination that, due to changed circumstances, an industry in the United States would not be threatened with material injury if the dumping finding concerning

electric golf cars from Poland were revoked. As a result, the Department of Commerce is revoking the finding of dumping applicable to electric golf cars from Poland being imported by Melex USA.

The Poles began to import Melex cars in 1971 and 959 cars entered the market that year. Imports increased rapidly up to 1975 with a total of 10,000 cars being imported. In 1975, a finding of dumping was brought forth and numbers dropped to 6000 units in 1976. The anti-dumping laws say that a foreign producer sells at less than fair value when it markets goods in the U.S. at prices lower than in its home market. This was difficult, in the case of Polish cars. There aren't any golf courses in Poland, thus no cars are sold there. Therefore the price was arbitrarily determined, using Canadian prices.

The USITC's public report, "Electric Golf Cars From Poland", contains the views of the Commissioners and information developed during the investigation. Copies are available by calling 202/523-5178, 212/466-5599, the Office of the Secretary, 701 E. Street NW, Washington, D.C. 20436.

Mark your calendar now!

December 2-4, 1980
Ohio Center, Columbus
(Exhibit floor opens at 9:00 a.m., educational sessions start at 1:30 p.m.)
Headquarters hotel: Hyatt Regency Columbus

December

Tuesday Wednesday

SPLIT SESSIONS FOR GOLF COURSES AND LAWN CARE INDUSTRY!

Ohio Turfgrass Convention & Show starts!

- Over 70 exhibitors of turf equipment, materials, and services
 - Speakers from leading university and industry sources
- All professional turf managers welcome. Register upon arrival (no pre-registration necessary).

The Ohio Turfgrass Foundation
1827 Neil Avenue,
Columbus,
Ohio 43210
(Tel: 614/422-2592)

MUSSON FLUFF CORD SPIKE TILE



IF YOU ARE CONCERNED WITH THE MAINTENANCE, SAFETY AND APPEARANCE OF YOUR CLUB'S FLOORS, REQUEST THE USE OF FLUFF CORD SPIKE TILE

This spike-resistant floor covering has a carpet-like surface. It is made of rubberized fabric strips of heavy-duty tire stock, bonded to a flexible mesh base. Tiles are 3/8" thick and 12" x 12" square.

Write For Information and Prices

THE R. C. MUSSON RUBBER CO.

1308 East Archwood

Akron, Ohio 44306

When Dave Portz renovated 14 fairways with Roundup[®], the members played the same day he sprayed.



Dave Portz
Grounds Superintendent
Brookside Country Club
Mecungie, Pa.

Cleaning up a weedy fairway doesn't have to be a slow, messy job for you—or a hardship for your golfers.

Roundup[®] herbicide helps make renovation fast and efficient—as Grounds Superintendent Dave Portz discovered last year.

“If we had chosen to plow the course under, we would've had to close it,” Dave says. Instead, he applied Roundup on 14 weedy fairways, and reopened the course the same day. While Roundup worked, the members played over the dying turf, with no problems.

The members—and Dave—liked that. They were glad, too, that Roundup won't wash, leach or volatilize to injure desirable plants along the fairway. Dave simply took precautions against spray drift.

This year, reach for Roundup to control many tough weeds. It can make turf renovation fast and efficient for you—and leave a lot more playing time for your golfers.

For literature, call 1-800-621-5800, or in Illinois, 1-800-972-5858.



**There's never been
a herbicide like this before.**

Groundsmaster 72.[®]

We engineered this Professional to mow up to 3.7 acres an hour without losing its cool.

Power to spare from a water cooled, 4 cylinder engine.

Clean, uncluttered operator station for maximum visibility.

Hydrostatic drive for smooth, one pedal control of forward/reverse.

An optional rear discharge cutting unit which directs clippings down between the wheels is now available.

Donaldson air cleaner for longer engine life.

Deck offset 18" for mowing under limbs, trimming near fences, trees.

If you're responsible for large areas of turf, you have grounds to buy our Groundsmaster 72[®].

In fact, Toro engineered this rugged 72" rotary specifically for your needs.

We built-in plenty of power for all types of cutting conditions.

We made its engine water cooled to give you longer service life.

We designed it to trim close to fences, walls, buildings and trees.

And we added versatility. With optional accessories including a 48" snowthrower, V-plow, rotary broom, roll over protection

system (ROPS), and cab with ROPS.

Want a demonstration of the Groundsmaster 72[®]? Or our Groundsmaster 52[®] that mows like a garden tractor and trims close like a walk mower? Call your Toro distributor. Or, mail the coupon.

TORO[®]

The Professionals[™]

Tell me more, Toro.

I'm interested in a free demonstration of the Groundsmaster 72[®]. Please have my distributor call me.

Name

Company

Address

City County

State Zip

Phone
area code number

Mail coupon to: The Toro Company
Commercial Marketing Dept. GB-100
8111 Lyndale Ave. S., Minneapolis, MN 55420

Circle 113 on free information card

Landscaping the green: Part I

By J.A. French and R.P. Korbobo

A golf green, no matter how superior the quality of the turf, without a suitable landscape to "finish" it, is much like a diamond in the rough without a proper setting. The diamond may be of the finest cut and extremely expensive, but place it in the palm of your hand and it can actually look rather commonplace. Put the same diamond in a high quality "setting" of a ring, necklace, or stick pin, and like magic it takes on the aura of beauty.

It is the same thing with a fine golf green. It can have the greatest turf possible, it can be contoured with professional subtlety, it can be located on the most prestigious course in the land — but — without a proper landscape setting, i.e. a green background and framing, it is "just another green".

This happens all too often, even on courses that comprise "the tour". We believe that a golf course can and should be much more than just a place to hit a ball around until you get it into the hole.

Great golf holes should also be beautiful

Think back—or start looking from this day on—to all the courses you have seen or played, and recall how few holes really caught your attention for their sheer beauty. Not many! A few great courses may have half of the

greens with spectacular backgrounds, but most courses are fortunate to have four or five such holes with only adequate landscaping associated with its greens.

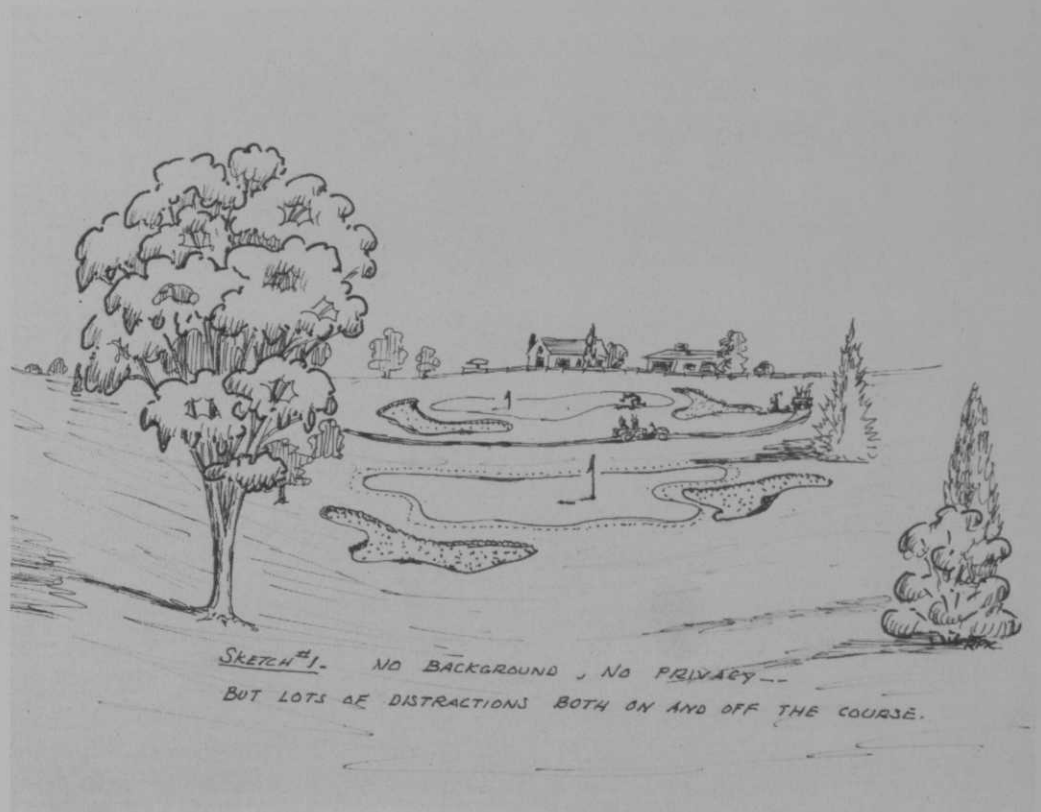
Our guess as to why there are so few truly beautiful golf holes is not for

reasons of expense only, but also one of putting off to the future what should be done this year. Golfers can be so intent on their game that they do not take the time to actively appreciate where they are during their round of golf. (Professionals are the most extreme in this— they **must** concentrate on their game or they will be out of work!) The golfer, along with the fisherman and hunter, are the lucky people for they have chosen these activities for their off hours enjoyment. The angler or huntsman must take the landscape as he finds it.

The golfer is set aside from the other two in that he is surrounded by mostly a man-made scene, and has the opportunity to create the living beauty that is the golf course. Even though concentration on the game is essential, an awareness of the beauty of the course is another reward of playing the game of golf. It is obvious, therefore, that any drab, uninteresting green should be given a planned background planting. We refer to groupings of plants varying in size, shape and texture, against which the green is looked at and played up on.

Isolate the green

The first goal of such a landscape setting is to more or less isolate the





SKETCH #3. SAME GREEN AS SKETCH #1. HERE YOU EXPERIENCE A SENSE OF SECLUSION, PRIVACY AND QUIET—NOW THE GREEN HAS A PROPER SETTING.

area immediately around the green from the rest of the course. The player's line of sight should not be able to reach beyond the green on to the next tee, green, or fairway. Ideally, the golfer should only be aware of the hole he is playing on and not have his concentration broken by activity on adjacent holes.

When the players arrive on the green itself, they should have the feeling of being in an area that is practically set aside for silence, stillness, and privacy. We do not mean for them to be walled in by deep, dense foliage. It should only suggest that these desirable conditions do exist.

Give the golfer a target

By placing a green planting in back of the green, the flag becomes easily visible as you look to the green while preparing your shot to the pin. It will

be able to hold the golfer's undivided attention. No one will have to ask where the flag is. In reality a proper background planting assists the golfer in judging the distance to the flagsticks. The green then becomes a very definable target. This especially so when it happens to be a blind green. With good tree selection and placement, and after the trees get some size to them, the golfer can use the tops of the trees as his aiming point. How much better for a member hosting a newcomer to the course to say "shoot for the tall trees" instead of "shoot for the smoke stack or that billboard." (See Sketch #1 which shows through the green background to another hole and houses off the course.)

Framing

Framing the golfer's view to the green as he moves up the fairway

serves several purposes: Obviously, it adds to the beauty of the green, if the correct shape of tree, or trees, are used. Also, by adding a forward framing element in front of the green, the edge of the fairway can be brought into the green traps in a gentle curve, adding definition to the green and the approach to the green. Also the green approach can be somewhat "toughened up" by careful placing of these trees.

No place for engineering practice

A great deal of experience with, and knowledge of trees, plus the game of golf, becomes necessary at this point. Just to stick a pin in the center of the green and then take an instrument and swing an arc behind and to the sides of the green, so one can then plant a row of trees on this arc, is to invite the worst kind of golf course landscape design. This is where the art of creating a landscape composition must come into play, so that the end result will not look crowded and unnatural, but as if the landscape existed there always. (See Sketch #2 illustrating the mistake of an overly balanced planting.)

Know your plants

The landscape architect or designer uses plants much like the artist uses his paints. The chief difference is that the shapes on the canvas will remain the same, whereas plants in the ground will keep changing over a long period of time, as long as the trees are living. Time becomes a factor to be reckoned with in addition to color, form, texture, terrain, depth of field and even climate. The designer, by understanding all these variations, must be able to visualize the end product even before he puts his pencil to the drawing board.

Patience and imagination are essential

We simply cannot stop such growth processes at any given point. It is an ever changing entity even into old age. The same is true with any landscape planting. So we must know the steps through which these trees will progress. We can then know which species to select and precisely where to place them—even though to begin with they might be small. The initial effect—unless much money is available for large plants—is usually less than adequate. But even when small plants are used, an immediate effect is felt by the placement of the trees—and the promise of larger sizes to come and how it will appear.

Part II will continue in November.

POOR MAN'S GOLF COURSE DESIGNER & BUILDER

18 Hole First Class Golf Course
For Less Than \$200,000

I do my own design and construction
40 years experience—5,000 yards to 7,000 yards

Full water system — greens — tees —
fairways. I do not build cheap golf
courses — only the price is cheap.
On job every day start to finish.

Box 125
R.D. 1
Beech Creek, PA 16822
Phone: (717) 962-2970

I GO ANYWHERE • RENOVATION • HELP WITH PROMOTIONS

Write 126 on reader service card