be said, is due to observing two general rules which are of value in connection with any drainage improvement. These are: (1) specify a drain which does not have to be dug up at periodic intervals for repairs or to maintain its drainage efficiency; and (2) make provision for extension of the system, should early experience indicate that this is required. By observing these rules, any course can in time make itself noted for being the first in the neighborhood to become playable after rains.

Crab Grass Treatment

Crab grass, as you know, is an annual grass. Its seed is very strong and grows This grass has been almost any place. found mostly about 200 miles north of the Mason-Dixon line. It puts in its first appearance in a beautiful, light-green growth from the first of June until perhaps the first of July, depending upon the heat conditions of that spring in that particular location. Numerous inexperienced men are under the impression that they are getting a very wonderful putting green grass or the fairways are improving every day, but it is the annual crab grass seed germ which has been deposited the year before. About the middle of July this crab grass is at the point of turning into a brown texture, the seed is maturing very quickly, and toward September the seed has matured, falls from the crab grass into the ground to form the evil that you have had in previous years. In the putting greens and tees there are two practical ways of eliminating this grass; one is having a group weeding the green thoroughly, taking the crab grass out by the roots before seed time comes, but if the green is too

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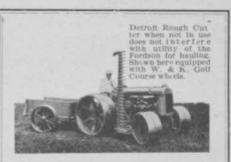
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heavy with crab grass and the club cannot afford the expense of weeding by hand, I have found a very satisfactory way. Get a Scotch chain harrow and by running it over the green a couple of times, make the crab grass runners stand up as much as possible. Get your putting green mowers with catchers and cut straight across the green, returning in the same track, picking up as much crab grass and seed as possible. Continue this operation until your green is fully cut, and then fertilize your green thoroughly. I would recommend a couple hundred pounds of cottonseed meal and Ifme mixed. Other people would advise nitrate of soda; some muriate of ammonia; still others would prepare sulphate of ammonia or some of those chemicals which produce plant life. After this is prepared properly and you have your soil in an active, healthy condition, spike roll your green four ways, getting your soil loose. Then top dress, seed whatever texture you prefer, such as creeping bent, chewings fescue, red top or blue grass, and I am quite sure the following year you will at least have eliminated 75 per cent and in many cases all of the crab grass.

Plantains and Dandelions

Plantains and dandelions have practically the same kind of tap roots. In putting greens, without doubt, the only way to remove them is by hand. Cut the roots low and in this way you will eventually exterminate them. Some clubs, in their larger areas, have been using a gun with an automatic stopper at the bottom, loaded with gasoline or other chemicals, putting the matter in the core of the dandelion and letting it die in the ground itself. With plantains you cannot do this on account of the plant being a little different at the surface.

QUACK GRASS

Quack grass is usually found where farm land has been neglected. The roots are large, ragged, uneven and difficult to eliminate, and if the ground is not properly prepared, especially for a seed bed, this grass will choke out the finer grasses.

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Dallas Gets High Grade Park Golf

THE playing condition of the Tenison Park Municipal golf course in Dallas—to which the National Pro Champion, Walter Hagen, saw fit to pay a high tribute—is attributable to several things. First and foremost among them is the terrain of the park which was donated to Dallas by the late E. O. Tenison. It would hardly be possible to find another 125 acre tract of land near Dallas as well suited for golf purposes.

Before telling of the method of maintenance used in keeping the course in good condition during the winter months it will be necessary to mention the construction of the greens and the general layout of the course. In the first place, the Park Board delayed the construction of the course until enough adjoining land could be secured to assure an ideal layout-where the first and tenth tees and the ninth and eighteenth greens were located near the clubhouse. Then the services of Jack Burke of Houston, were secured for the purpose of laying out an 18 hole course. Burke, assisted by Syd Cooper, father of Harry Cooper, spent several weeks in studying the situation and finally recommended to the Park Board the present layout-which includes every golf shot imaginable.

The next problem that confronted the Park Board was the construction of the greens. This was happily solved by a citizen of Dallas, Mr. Louis Jacoby, who gave his services freely to the Park Mr. Jacoby had been on the Board. Green Committees of the Dallas Country club and Brook Hollow Country club for 12 or 15 years and the Tenison Park greens bear witness to the fact that he ranks high as an amateur golf architect. He saw to it that the greens were made exceptionally large to take care of the enormous play anticipated at Tenison. He also supervised the construction of the slopes, rolls, traps and general contour of each green. Under his instructions the proper amount of cinders, soil and fertilizer was properly placed under the greens. In fact, too much credit cannot be given to Mr. Jacoby for the present condition of the Tenison Park course.

Upon the construction of the course the matter of maintenance confronted the Park Board. It was then that Mr. Jacoby and Mr. Roy Munger of the Dallas Country club came to the assistance of the Park Board. Also, J. V. Hawkins, greenskeeper at the Dallas Country Club. One of the first acts of Mr. Hawkins was to sacrifice his own organization by letting the city of Dallas have his assistant, M. L. Grigsby as foreman at Tenison. Hawkins still continues to make his bi-weekly visits to the course to confer with Grigsby who is fast developing into a real green-



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keeper himself. The maintenance of the course is left entirely to them.

Greenkeeping Practice

During the summer the greens are cut every day and watered every night. The cups are changed often to rest the used portions. Every two or three weeks the greens are topdressed with a mixture of sandy loam and dairy fertilizer-giving them a soft springy surface. Care is taken not to water the greens too late in the fall. During the winter when the grass dies down the greens are topdressed with sand which is kept loose with a nail drag and smoothed down by a specially constructed mat. The greens are watched closely for weeds and winter grasses which are immediately pulled up by the roots. When not busy on the greens the men are leveling fairways, raking leaves or spreading rich soil on bare places in the fairways. The entire operation of the course is directed at improving its condition at all times. In this respect, Syd Cooper, professional of the course, has rendered invaluable service by cooperating with the greenkeeper.

The condition of Tenison Park course. as well as the other three municipal courses, is largely due to the liberal policy of the Dallas Park Board which operates two grass green courses and two with sand greens. While Tenison Park has the reputation of being a sporty course, it is doubtful if there are nine sportier holes in Texas than those at Stevens Park "Muny" course. Every hole has plenty of hazards, most of which are water The Park Department is now constructing nine additional greens at Stevens which, when finished, will rival Tenison in beauty, layout and condition. The Oak Grove Course has 18 sand greens, while the nine hole sand green course at Randall Park is maintained for children who play free at all times.

Greens Are Donated

In constructing Tenison and Stevens the Park Board ran short of funds but public spirited citizens and concerns came forward quickly and put the proposition over. The following individuals and concerns each gave \$500.00 or the equivalent for the construction of a grass green which is designated as their green by a bronze tablet on the greens master marker at the back of the green;

Mrs. E. O. Tenison

M. P. Exline (two greens)
Central Bitulithic
Metzgers Dairy
Southwestern Bell Telephone
Fuller Construction company
Times-Herald
Louis Jacoby
Mike H. Thomas
Schepps Bakery
Walter A. Stevens
Chas. A. Mangold

Under the following men who compose the Park Board, the Municipal Golf Courses of Dallas were developed: Mayor L. Blaylock, President; Emil Fretz, Vice-President; Geo. S. Leachman, S. E. Moss, Harvey S. Trewitt.

To say that the condition of Tenison Park Golf links is due to any one cause would be erroneous. It would be better to say that the fine playing condition which Walter Hagen saw fit to comment so favorably on is due to five causes, namely: 1—The nature of the ground itself; 2—The layout and construction of the course; 3—Proper construction of the greens; 4—Co-operation of Louis Jacoby and the Dallas Country club, and 5—The liberal policy of maintenance adopted by the Park Board.

One Treatment Cures Trap Neglect

THE Greens chairman at a Pennsylvania club has discovered a most successful method of educating the members to cover foot-prints and repair other damage done by them in playing out of sand-traps. The scheme is not only unusual and effective, but is also adaptable to conditions everywhere.

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ing notice to appear on the bulletin board of his club:

Warning to Members!

The Grounds Committee has received the usual number of complaints this year that some of our members are careless about smoothing heel-prints in sand traps.

Members are hereby notified that on an unspecified day within the next few weeks, an OBSERVER will be stationed near certain groups of sand traps on our course and will take note of the degree of thoughtfulness displayed by our various members when leaving these pits.

He will note whether a member smoothes his foot-prints after his shot and whether he takes care to leave from a point where the least damage will be done.

Immediately thereafter, this report and accompanying notes in full detail will be posted on this board.

As might be expected, there was much objection by the members to this plan, the most common complaint being that a member should not be spied upon. The Greens Chairman replied that a man who refused to conform to the common customs and etiquette of golf needed drastic treatment. Invariably, the complaining members hastened to assure the chairman that they were not speaking for their own protection but rather because they thought the principle basically wrong.

The notice remained on the bulletin board and almost immediately the reaction was apparent. It was observed that members were extremely careful to efface all damage done by them in the pits, as they could not be sure they were not being watched. But after a week or so, nothing having developed, they began slipping back into the careless ways of the past, with the result that the pits, after a busy Sunday, once more resembled No Man's Land at its worst. Then the observer was sent out.

At one point on the course a green plentifully surrounded by sand traps lay close to the public highway, and to this spot the observer (who happened to be the chairman himself) drove a Ford one Sunday morning and there spent most of the day behind side-curtains, taking minute notes of the members' actions in the pits. The players paid no particular attention to the car, for cars watching the players were common at that spot, and the side-curtains prevented any of them from recognizing their chairman.

Next day the following notice appeared on the bulletin board:

Notice! Notice! Notice!

On Sunday, July 18th, 1926, a number of our members had the misfortune to land in the pits surrounding the seventh green. Their actions were as follows:

8:17 a. m,—Harry S. is a little fellow, but he certainly left elephant tracks.

8:29 a.m.—Joe C.'s ball landed on steep slope of pit to right. He knocked down considerable sand in taking stance and playing shot, but carefully repaired all damage before going to green.

8:30 a.m.—P. J. K. was playing with Joe, but he forgot to follow the good example Joe set him.

8:36 a. m.—Fred C. smoothed away his prints carefully.

8:47 a. m.-Fran S. ditto.

8:52 a.m.—W. M. W.'s ball landed in a heel-print left by K. "W. M." cursed his luck, played shot out viciously, and then forgot to smooth his own prints!

9:01 a.m.—Harry L. was thoughtful of those behind him.

9:06 a. m.-"Doc" ditto.

9:09 a. m .- Pat ditto.

9:21 a.m.—Bert C. allowed his caddy to walk through trap to hand him putter, without reprimand.

The list was a lengthy one and not a member who had entered the pits that day was omitted. Most of the players were commended for obeying the etiquette of sand-pits, but at the same time any display of carelessness or thoughtlessness was noted, as the reader will observe, in a semi-humorous manner.

The reaction was a surprise to the committee. Those members who had acted properly and those who had the good fortune to miss the particular pits in question were delighted to have the opportunity of "razzing" their unlucky fellow members. The majority of the careless ones took their punishment good naturedly. A few felt offended and promptly sought out the greens chairman to tell him so.

The chairman, however, fortified by his own notes, pointed out that the facts were true and that there was nothing he could do about it other than suggest that the aggrieved members be more careful in the future. He called attention to the fact that if they had taken care to smooth out their tracks, as they very well knew how, they would have no cause for complaint. The explosions died down.

The plan was not needed again.

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