

Mitcham Golf Club

A busy progressive golf club in Surrey
is looking for a

HEAD GREENKEEPER

to take over the management of their
18 hole course

He will require a knowledge of man
management, machinery maintenance,
turf management and all associated
course problems

Accommodation is available for the
successful applicant.

*If you feel you have the necessary
experience write for an application
form to:*

**The Secretary,
MITCHAM GOLF CLUB
Carshalton Road, Mitcham Junction,
Surrey CR4 4HN**

BLOXWICH GOLF CLUB LTD.

Bloxwich, West Midlands

require a

HEAD GREENKEEPER

Applicants should have extensive
experience in the Theory & Practice of
Golf Course Management, be conversant
with the use and maintenance of all
modern golf course machinery, and
be able, with initiative, to direct
and lead by example, the excellent
supporting staff.

There is no accommodation but the salary
which is negotiable will be commensurate
with a club of this standing.

*Written application with full details of age,
experience and qualifications etc., to:*

**The Secretary,
BLOXWICH GOLF CLUB LTD.
Stafford Road, Bloxwich,
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*DUE TO EXPANSION,
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*Please write with full C.V.
in strictest confidence to
Box No. 101*

*Golf Greenkeeping, P.O. Box 12,
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Bushey Hall Golf Club Ltd.

Require an

ASSISTANT TO GREENKEEPERS

Some experience necessary
Wages negotiable

Contact The Secretary:-
**BUSHEY HALL GOLF CLUB
Bushey Hall Drive,
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Have you got enough room?

PLANNING THE GOLF COURSE MAINTENANCE FACILITY

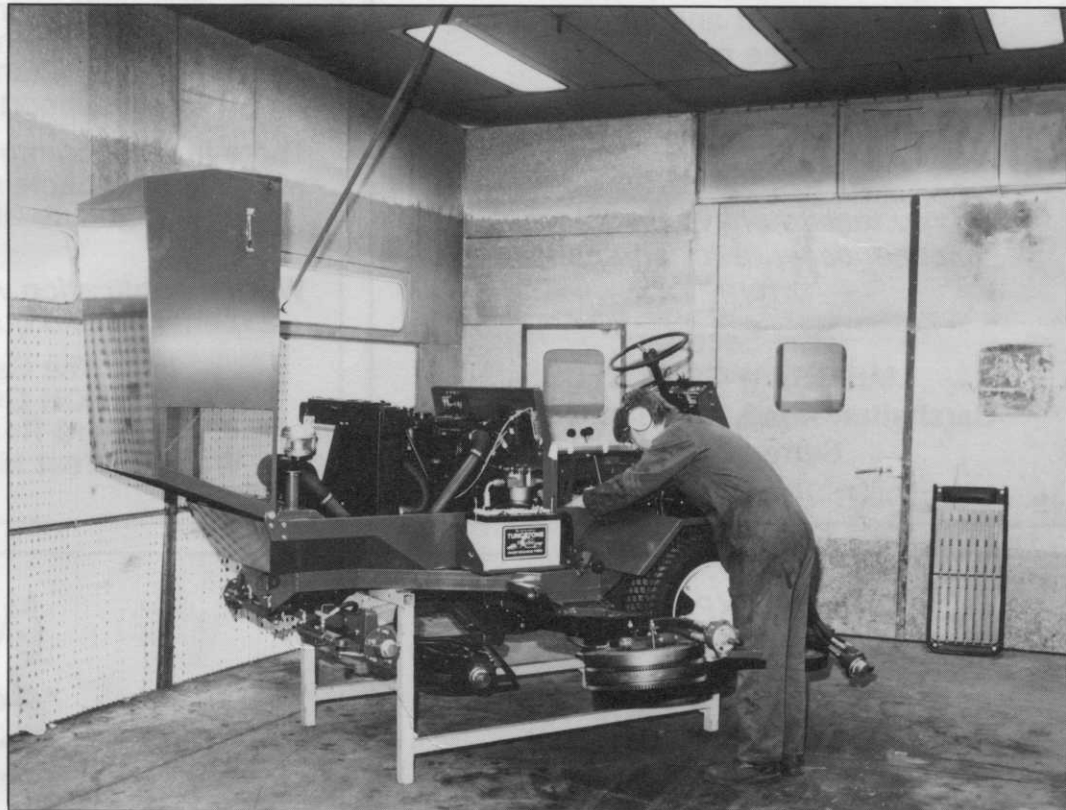
Remembering the pink curtains in the Teignmouth green-keeping sheds last month, I had thought of discussing with you the other essential features of this important facility. Then came the latest issue of the USGA's Green Section Record and there was H. A. DeHay's excellent article on the same subject and supported by a great deal more research than I could ever hope to muster. So the best thing I can do is take the day off while you get on with it. Remember that America is a big place.

Facilities planning is not a new concept in architectural design. It was recognised as a contributing aspect in early architecture, but it developed as a major role during the Industrial Revolution. As industry became more competitive, new methods of increasing efficiency naturally developed. Using every square foot of space effectively became mandatory. The effectiveness of space planning became more and more apparent, and the process spilled over from industrial use to other facets of architectural planning. Efficient use of space has become the primary objective in the design of buildings today.

I became interested in planning golf course facilities after a phone call from a golf course manager I had met not long before. He had a problem, and he invited me to visit his operation to see it for myself. It was taking 30 minutes or more to get equipment out of the building and into the field.

Having grown up on a golf course I can recall some of the problems my father had operating within his facility. It had been 20 years since I had been in a golf course maintenance building, but to my surprise, the building looked and smelled just like the one my father had.

At first it appeared that nothing had changed - until some of the modern equipment came into view. It was difficult to determine in which direction some of this new machinery was intended to go, and I could tell only after I



Equipment maintenance needs space to work and adequate lighting.

located a steering wheel and a seat. It was evident that new ideas had been moved into the design of golf course maintenance equipment. In contrast to this, I saw no evidence that any new technology had been applied to the design of the building.

After visiting many maintenance facilities and talking with golf course managers, it became clear that although the activities necessary to maintain a golf course were very much the same, no two facilities were even remotely alike.

This proved that new design and planning technology that had been developed through the last decades were not being used for golf course maintenance buildings. It is hard to believe that as long as golf courses have been around, the design of their facilities could be so neglected.

With new regulations and the right-to-know laws in effect today, plus the high cost of maintaining a

golf course, owners can no longer overlook the importance of the maintenance facility. The idea that maintenance activities can be carried out in a barn hidden away out of sight, as they were in the old days, is courting serious problems and operational inefficiencies.

This lack of proper design undoubtedly reflects some of the old traditional attitudes. While tradition is a foundation of golf, it is nevertheless necessary to consider the modern needs and new issues facing today's maintenance operations. The cost of maintenance is a major consideration today. Although the manufacturers of equipment are addressing the problem, we still have the matter of efficiency at the golf course itself.

The majority of the maintenance facilities I have visited lack adequate space to perform the work. This is a major factor affecting the total operation. Since there are no

published guidelines dealing with the space requirements for golf course maintenance operations, one can understand why facilities are so unlike one another.

Following the normal procedures of the facilities planning process, I conducted a space study of the various golf maintenance activities. A parking plan was developed. Equipment used each day was located for easy accessibility, and it could be driven from the building without moving other pieces of equipment. Equipment that wasn't used as often was located in secondary parking slots. Equipment that was seldom used was parked in less accessible slots. This assignment of space enables the superintendent to dispatch any piece of equipment to the course without having to move other equipment first.

The inside space necessary for other aspects of the golf maintenance operation have been established as follows:



Visitors inspect the rebuilt greenkeeper's sheds at the Belfry. The wide doors allow easy access for all sizes of machinery.

ADMINISTRATION AND SUPPORTING FACILITIES

For employees	1,600 sq. ft.
Equipment parking	3,200 sq. ft.
Chemical storage	800 sq. ft.
Repair shop and parts	1,600 sq. ft.
Cleaning bay	800 sq. ft.
Soil bins	800 sq. ft.

When the opportunity to design and build a complete new facility presents itself, the following space requirements will provide a guide for the size of the land area necessary to operate a golf course maintenance facility effectively.

Building	8,800 sq. ft.
Fuel island/wash apron	1,720 sq. ft.
Hard surface apron	42,838 sq. ft.
Dumpster pad	375 sq. ft.
Soil mix apron	1,200 sq. ft.
Drives and green space	4,992 sq. ft.
TOTAL LAND AREA:	
235ft x 55ft.	55,925 sq. ft.

Because efficiency is only obtained by creating an orderly traffic flow, it was necessary to analyse the flow to and from the facility. Many factors are concerned, among them the separation of employee vehicles from other activities, visitors to the facility, outside service vehicles, and the maintenance vehicles themselves.

Two operations at every golf maintenance facility deserve special study: fueling and washing vehicles. Washing creates an offensive environment, while fueling is a major safety consideration. Each operation is usually conducted at a separate location. They do, however, have one aspect in common. Both must be done to every piece of equipment every time it is used.

Therefore, upon entering the facility from the golf course, the equipment is usually driven to two separate locations. This can create a complex traffic flow. However, space will be saved and efficiency increased if the two activities are confined to one general area. The combination fuel island/wash apron should be located directly in the traffic flow between the golf course and the building.

Designated parking spaces is important, too. Employees' performance in driving maintenance vehicles is far more predictable when the operator knows exactly where they are to be parked. Past studies show time is wasted when an employee cannot find a place to park his vehicle. While this aspect of facilities planning may appear at first to be minor, it is one of the major contributing factors to the order so necessary to achieve efficient operations.

Planning of space and creating a traffic flow for equipment develops a sense of order that carries over to other activities. Order reflects an attitude of management. Attention to see that every activity has been studied conveys to the employees a sense of positive attitude will prevail, and that the quality of the job performance will increase accordingly.

The maximum efficiency level of any operation is achieved when facilities planning technology is applied. This aspect of any golf course operation deserves further exploration. It can significantly affect golf course economics and a successful future.

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FEATURE 3

HAVE YOUR SPRINKLERS LOST THEIR IMPACT?



REPLACE THEM WITH TORO, THE TOP PEOPLE'S CHOICE!

Ask your Head Greenkeeper if he's totally happy with the performance and reliability of the sprinklers around your course. If there are doubts, call your nearest Toro Distributor for helpful professional advice. He will show you the range of Toro gear-driven sprinklers designed especially for golf course watering. He will tell you just how technically superior they are - how they can improve watering efficiency and just how simple it is to improve your existing system.

Top people's choice? You'll find Toro Sprinklers watering the sacred turf of St. Andrews, Centre and No. 1 Courts, at Wimbledon and the pitch at Wembley Stadium...

P.S. Toro make sprinklers to water greens, approaches, fairways and tees - putting areas too!



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 Unit 7, Millstream Trading Estate, Ringwood, BH24 3SD, Hampshire. 04254-6261
Your Toro Distributors are:
Home Counties, East Anglia & South East
 Golf Landscapes Irrigation, Brentwood. Tel: 0277-73720
South & South West Irrigation Slurry Services, Downton, Wilts. Tel: 0725-20377
Midlands, North, Scotland & Wales
 Turf Irrigation Services, Sandbach. Tel: 04775-255

The top people's choice!



Left to Right: Alec McKee, Commercial Manager, John Deere Limited, Philip Tong, GCE Territory Manager for the Southern Region, John Deere Limited, Gordon White, Director, Golf and Turf Equipment Limited, Douglas Walker, Managing Director, John Deere Limited, Bill Fisher, Managing Director, Golf and Turf Equipment Limited at the recent Dealer Signing.

Joint NTC/NAAC Workshop at Stoneleigh

Thursday, 12th November, 1987

Since the last amenity pesticides workshop a year ago, the National Turfgrass Council has been working, with the approval of the Ministry of Agriculture, Fisheries and Food, to prepare a code of practice specifically for the amenity sector.

The workshop at Stoneleigh on Thursday, 12th November, 1987 is mainly to introduce the new code. Speakers will explain how it would be applied in various situations, what is included, and what is not.

There will also be a chance to get up-to-date on operator training and certificates of competence, with a speaker from the ATB, and Phillip Sheppy of the NTPC to review and explain the pesticides application tests.

The price of £37.00 per person includes a copy of the code available at the workshop, lunch and other refreshments, and a copy of the workshop report.

The previous workshop on amenity pesticides in 1986 had nearly 200 participants, and this one looks set to be even more popular.

Enquiries to:
Mr. J. P. Shildrick,
Secretary, NTC,
3 Ferrands Park Way,
Harden, Bingley,
West Yorkshire, BD16 1HZ

NEWS 12

Deere appoints ground care dealer in Surrey

Increasing its national marketing and service network for its wide range of Lawn and Garden tractors for commercial, Local Authority and public consumer use, JOHN DEERE LIMITED of Nottingham, the world's largest manufacturer of Ground Care Equipment, announce the appointment of Golf & Turf Equipment Limited, 99 Westfield Road, Woking, Surrey GU22 9QP.

NEWS 13

Greenkeepers take new jobs

David Wilkinson, Selby's greenkeeper for the past seven years has been appointed Course Manager at the privately owned Shaw Hill Club at Chorley, Lancashire.

The Selby club recently lost their professional, the well-known tournament player David Jagger, who has joined Hull G.C.

David leaves the inland 'Yorkshire links' in fine fettle, where, by an intensive programme of deep slitting on his sand based fairways, he has improved the grass growth enormously.

Selby, near York, has a reputation for its all year round playability and recent extensions to the club-house and locker rooms make it a perfect venue for a day's golf.

Yorkshire's top heathland course, Alwoodley, Leeds, have appointed Phil Taylor, Head Greenkeeper at the York G.C. to succeed Hughie Marshall when he retires at the beginning of 1988. Hughie has recently moved to a house at Harewood and is now a neighbour of the Queen's cousin. His son Peter is also well-known in the turf trade as a representative for Patissons.

Mick Bryant from Heworth, another York course, is going further afield. He has accepted a greenkeepers position in France.

At Scarcroft, following extensive interviewing, Jeffrey Mawson's job has gone to his first assistant 23 year old Graham Oxley. Graham, an apprentice with Jeffrey, is yet another in the long line of trainees who have obtained top jobs as a result of the excellent tuition all young greenkeepers have received at Scarcroft.

NEWS 14

GCSAA Conference Sets Sales Record Five Months Early!

Texans have long liked to claim that their state is the biggest and the best. And the 59th International Golf Course Conference and Show booked for Houston in early 1988 and sponsored by the Golf Course Superintendents Association of America (GCSAA) - is certainly on its way to upholding the Texas tradition.

With nearly five months to go before the doors open to the expected 14,000 attendees, the Show's exhibition space reservations are already ahead of last year's total.

More than 112,000 square feet of display space has been committed to various manufacturers and distributors from all over the world. This surpasses the previous record of 108,500 square feet in Phoenix earlier this year.

"We still have some space available, but it's truly incredible how quickly everyone has responded", said Tuula Wright, sales and marketing manager for GCSAA. "The industry is booming, and exhibitors are anxious to display their products to the buyers, the golf course superintendents".

The show will run Feb. 1-8 in the George R. Brown Convention Center. The event will be among the largest shows to be presented following the completion of this dramatic new facility.

The GCSAA Conference and Show is a complete undercover exhibition for today's golf course superintendents from around the world. More than 60 percent of the exhibitors have indicated that they will be revealing their new product lines and services.

NEWS 15

APPOINTMENT

MARTIN MUIR

Martin Muir (30) has been appointed Sales Liaison Manager for fertiliser specialists Vitax Limited.

Mr. Muir, who lives at Penbury, Tunbridge Wells, Kent, joined Vitax in January 1985 as Sales Executive for South-East England.

NEWS 16

TRADE Directory

PLACE YOUR SMALL ADS IN THE TRADE DIRECTORY — £40 PER YEAR

ARTIFICIAL GRASS

AstroTurf Artificial Grass, PSA Ltd., Vorda Works, Highworth, Swindon, Wilts. SN6 7AJ. Tel: (0793) 764301. Tel: 449703. Fax: (0793) 765319. Contact: David Stoker.

The Greensward Company, The Old Hall, Langham, Oakham, Rutland, Leicestershire LE15 7JE. Tel: Oakham (0572) 2923 & 56031. Telex: 34362 Greeco G.

P. N. Structures Ltd., 5 Vigo Street, Piccadilly, London, W1X 1AH. Tel: 01-734-2578. Design, supply and installation of a completely artificial grass system, specifically tuned to golf greens and tees.

CONSULTANT AGRONOMISTS

Martyn T. Jones, Consulting Agronomist in Landscape and Amenity Turf Culture, 41 Pennine Way, Great Eccleston, Preston, Lancs. PR3 0YS. Tel: (0995) 70675.

CONTRAVATING AND BRILLIANT SERVICE

Boughton Loam Ltd., Boughton Quarry, Boughton, Northampton. Tel: (0604) 847814. Suppliers of Loams, Sports and Horticultural Dressings.

DRAINAGE TUBES AND PIPES

W. T. BURDEN LTD., Wellsday, Keynsham, Bristol. 35mm to 300mm PVC Land Drainage Pipe, Polythene Water Pipe, UPVC Pressure Pipe and Fittings, Soil Stabilisation Fabric and all Drainage, Building, Civil Engineering Materials, delivered from eleven depots. Tel: (02756) 4761. Contact: Don Wakley.

FERTILIZERS & TOP DRESSINGS

Fisons plc, for the comprehensive turf fertilizer range, and both bagged and bulk peat and peat/sand top dressings, delivered nationwide.

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"Maskells" for Comprehensive Range of Fertilizers in Granular, Powder and Liquid form, Bagged and Bulk Peat(s), Pulverised Bark(s), Turf Dressings, Soils, Sands, Composts delivered U.K. Tel: (01) 476 6321. Contact: Maskells Golf Course Department Stephenson Street, London E.16. Quotations by return.

Boughton Loam Ltd., Boughton Quarry, Boughton, Northampton. Tel: (0604) 847814. Suppliers of Loams, Sports and Horticultural Dressings.

FUNGICIDES

Fisons plc, for Turfclear combined turf fungicide and worm cast control and Filax against Pythium and Phytophthora. Professional Horticulture Department, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ. Tel: (0473) 830492.

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WOODBLAST SIGNS, Lower Standen Hey, Whalley Road, Clitheroe, Lancs. BB7 1PP. Tel: (0200) 22156. Signage with a difference. Quality, plus distinctive and unusual character. Tee signs showing hole layout. Prestige entrance signage with club name and golfer silhouette. Information and direction signs, etc. etc. COLOUR BROCHURE.

GRASS MACHINERY RANSOMES DISTRIBUTORS

Burrows G.M. Ltd., Wigan Road, Leyland, Lancs. PR5 2UE. Tel: (0772) 421778. Contact: Mr. J. K. Sutton.

Burrows G.M. Ltd., Spring Slade Works, Cannock Road, Stafford. Tel: (0785) 661131. Contact: Mr. J. Guest.

Henton & Chattell Ltd., London Road, Nottingham, NG2 3HW. Tel: 0602 862161.

W. Mountain & Son Ltd., Bank Avenue, Morley, Nr. Leeds. Tel: (0532) 531201-6. Contact: A. C. Mountain.

Rowes of Chichester, D. Rowe & Co. Ltd., The Hornet, Chichester, West Sussex PO19 4JW. Tel: Chichester (0243) 78810. Telex: 86110. Contact: D. Strange or J. Burfoot.

W. Wilcock & Sons (Preston) Ltd., Walker Street, Preston PR1 2PR. Tel: Preston 53068.

GOLF CLUBS

This space can sell your surplus machinery for only £25.00

Tel: 0937-63181 and ask for Advertisement Department.

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BRITISH SEED HOUSES LTD., Bewsey Industrial Estate, Pitt Street, Warrington, Cheshire WA5 5LE. Tel: (0925) 54411.

Portview Road, Avonmouth, Bristol, Avon. Tel: (0272) 823691.

Camp Road, Swinderby, Lincolnshire. Tel: (052286) 714.

David Bell Limited, Eastfield Industrial Estate, Penicuik, Midlothian. Tel: (0968) 78480.

Mommersteeg International, Station Road, Finendon, Wellingborough, Northants NN9 5NT. Tel: Wellingborough (0933) 680674. Telex: 311234.

IRRIGATION EQUIPMENT

Cameron, St. Richard's Road, Four Pools Industrial Estate, Evesham, Worcs. WR11 6DP. Tel: Evesham (0386) 49341 Telex: 334141

Wright Rain Ltd., Flordon Road, Newton Flotman, Norwich, Norfolk NR15 1QX. Tel: Norwich (0508) 470402 Telex: 975015

Wright Rain Ltd., Bank Head, Medway, Sighthill Industrial Estate, Edinburgh, Scotland EH11 4BY. Tel: (031) 453 4789

Wright Rain Ltd., Unit 3D3, Thorp Arch Trading Estate, Boston Spa, Wetherby, Yorks. LS23 7BJ. Tel: Wetherby (0937) 845788

Cameron Irrigation, a Division of Wright Rain Ltd., Harwood Industrial Estate, Littlehampton, West Sussex BN17 7BA. Tel: (09064) 3985. Telex: 877483.

Par 4 Irrigation, Ash Grove Industrial Estate, Ash Grove, Ripon, N. Yorks. Tel: Ripon (0765) 2175. Supply, installation and servicing on automatic irrigation systems. Contact: E. B. Simms or L. Oyston.

Sports Ground Irrigation Co., 'Hereward Lodge', Page Road, Lubenham, Market Harborough, Leics. Tel: (0858) 63153. Contact: Mr. M. D. Walker.

T. & G. Turf Irrigation Services, 8 Whitcliffe Grove, Ripon, North Yorks. Tel: (0765) 2941. Golf Course Irrigation Contractors. Vibratory Moleplough and Tractor Winch For Hire. Contact: R. N. Glover or T. Teggins.

Toro Irrigation Ltd., Unit 7, Millstream Trading Estate, Christchurch Road, Ringwood, Hants. BH24 3SD. Tel: Ringwood 6261/2.

Watermatation Ltd., Monument Way East, Woking, Surrey GU21 5LY. Tel: Woking (04862) 70303. Supply and installation of golf course irrigation.

Turf Irrigation Services Ltd., Betchton, Sandbach, Cheshire. Tel: (04775) 255. Suppliers and installers of automatic irrigation systems. Contact: R. M. Hume

LIQUID ORGANIC FERTILIZER

Farmura Ltd., Stone Hill Egerton, Nr. Ashford, Kent. Tel: (0233) 76241. Contact: Jonathan Harmer.

NAMEPLATES & PLAQUES

Thos. A. Ingram & Co. Ltd., P.O. Box 305, 68 Soho Hill, Birmingham B19 1BB. Tel: (021) 554 4576. Full Colour Brochure Available. (Commemorative Plaques, Seat Plates, etc.)

PEAT

FISONS plc, for good clean sedge peat, bagged and bulk, delivered nationwide, Sphagnum bales bagged and bulk also supplied.

Professional Horticulture Department, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ. Tel: Ipswich (0473) 830492.

PEAT — BULK

Banks Horticultural Products Ltd., 36 High Street, Market Harborough, Leics. LE16 7NL. Tel: Market Harborough 64346.

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MOLES VANISH — "KILMOL" — Mole Bait makes certain A safe and effective method (not Strychnine) £7.50 Packs - 1/2 acre (approx.) £19.25 Pack - 3 acres (approx.) (inc. P&P) CALLISTO AVIARIES (G), Lapley, Stafford ST19 9JP Tel: (0785) 840366.

SAND

Joseph Arnold & Sons Ltd., Billington Road, Leighton Buzzard, Bedfordshire LU7 8TW. Tel: Leighton Buzzard (0525) 372264. Contact: P. R. Windmill.

Dunlop Sports Sands - Tilon Special Products, Manchester Road, Congleton, Cheshire CW12 2LU. Tel: (0260) 275214. Sand for top dressing and bunkers. Contact: Mr. Joe Steed.

Martin Bros. Ltd., 1A Clifton Street, Alderley Edge, Cheshire SK9 7NN. Tel: (0625) 584571.

Boughton Loam Ltd., Boughton Quarry, Boughton, Northampton. Tel: (0604) 847814. Suppliers of Loams, Sports and Horticultural Dressings.

SEMI-MATURE TREES

Eastcote Nurseries (Solihull) Ltd., Wood Lane off Barston Lane, Solihull, West Midlands B92 0JL. Tel: Hampton-in-Arden (06755) 2033/2034. Contact: Michael Fisher.

SEMI-MATURE TREE PLANT & LIFT EQUIPMENT FOR HIRE

Eastcote Nurseries (Solihull) Ltd., Wood Lane off Barston Lane, Solihull, West Midlands B92 0JL. Tel: Hampton-in-Arden (06755) 2033/2034. Contact: Michael Fisher.

SOIL CONDITIONERS

SOILIFE: Liquid enzymes. ROMILT MARKETING for your local supplier: North Wyke Farm, Guildford Road, Normandy, Surrey GU3 2AN. Tel: Guildford (0483) 811933

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Terra Force, Kent Horticulture Engineers, Prospect Place, Tonbridge Road, Wateringbury, Kent ME18 5NY. Tel: Maidstone (0622) 81387. Telex: 965222. Contact: John Brough.

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Evers & Wall Ltd., St. George's Way, Bermuda Industrial Estate, Nuneaton, Warwickshire CV10 7QT. Suppliers of Hardi Knapsack, Powered and Tractor Mounted Sprayers. Enquiries for Specials Welcomed

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T. Hilling & Co. Limited, Chobham, Woking, Surrey. Tel: (099 05) 7101. Contact: Bob Felton, Sales Manager.

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Toms Tree Ties, (J. Toms Ltd.), Wheeler Street, Headcorn, Ashford, Kent. Tel: Maidstone (0622) 891111

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L. D. Bourgein Oxford Ltd., South Hinksey, Oxford OX1 5BR. Telephone: (0865) 735420. Telex: 83147. Cheaper drainage, cheaper water supply, cheaper power supplies with the Case/Bourgein range of Trenching equipment. Contact: Roger or Felix Bourgein.

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J. Brailsford, Thrang End Farm, Yealand, Redmayne, Carnforth. Telephone: (0524) 781952. Turf suppliers to the Trade for 30 years of all types.

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Fine purpose grown sports and amenity turf. **ROLAWN (TURF GROWERS) LTD.**, Elvington, York YO4 5AR. Tel: (0904) 85661. Telex: 57796. Rolawn G.

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Ross Oliver, Greens Verti-Drain Hire, 'Greystones', Trebuddann, Newquay, Cornwall. Tel: St. Columb (0637) 880257.

Brian D. Pierson (Contractors) Limited, 27 Vicarage Road, Verwood, Wimborne, Dorset BH21 6DR. Telephone: (0202) 822372

WATER STORAGE

Millen, Elan (Liquid Storage), Station House, Eye, Leominster, Herefordshire HR6 0DT. Tel: Leominster (0568) 3697.

Contact: Michael D. Cocket. Suppliers of Water Tanks for Golf Courses. Specialised suppliers and installers of Liners for ornamental ponds, lakes and reservoirs.

Turf Irrigation Services Ltd., Betchton, Sandbach, Cheshire. Tel: (04775) 255. Suppliers and installers of automatic irrigation systems. Contact: R. M. Hume & D. W. Evans.

WEEDKILLERS

FISONS plc, for Tritox, selective turf herbicides, Herbazin total herbicide range and Greenkeeper Extra, combined weed and feed for turf.

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