

Fairway Case Study: Ross-on-Wye Golf Club, Herefordshire

PROBLEM

13th GREEN

The front, right area of the green , some 20 sq.metres, suffered from water retention for long periods. This was the result of the existing traditional system being damaged during the introduction of an automatic sprinkler system. The problem necessitated the use of the temporary green for long periods after rain.

The construction of the green, originally elevated over a minimal soil depth on a blue marle clay subsoil, is a 150mm depth of sand, peat and root zone. This area was becoming saturated and the water trapped.

SOLUTION

Insert new drainage around front half of the green, this to consist of 100mm perforated, Polybed flexible land drain contained in 100mm ring of a geosynthetic aggregate, held in place by netting. The circumference to be covered with a geosynthetic fabric, avoiding any possibility of clogging the aggregate.

The manufactured 3metre lengths are joined with a ready fitted sleeve, and the joint is protected by a patented polystyrene snap-on collar. This results in an overall 300mm diameter Polybed pipe run.

This drainage system is part of the Polybed range of drainage products, manufactured in the UK

METHOD

Using a digger with 12" (300mm) bucket a 24" (600mm) deep trench was excavated around the front arc (27m) of the green, the spoil, mostly clay was disposed of locally at non playing areas of the course.

A total of 9 lengths of Polybed were used, these being laid on a stabilising bed of sand in the bottom of the trench then covered to a depth of 6" with sand, this to be covered with a layer of peat and top soil, then to be re-turfed.

CONCLUSION

The total man hours on this operation came to :

Operator on digger etc, excavating and back filling, disposing of spoil, one man. 9 hrs

Preparing bed of trench, fitting together & laying the Polybed
Joining Polybed to existing clear drain leading to ditch, two men. 4 hrs

Cosmetic work finishing surrounds, one man 4 hrs

Project Completed in a Total of 21 Man Hours.

