

Drainage Scheme – Moorcock House Access

The drainage scheme is based around a system using porous asphalt with surface water channel systems diverting excess water to a geo-cellular drainage crate system.

The layout and design of the access is shown on the attached drainage plan.

A UniSuds asphalt material will be laid to the manufacturers specification for 15 metres from the highway to the access gate. Details of the surface material are attached.

The permeable nature of the porous asphalt will ensure runoff from the surface is minimal. However, it is accepted that the surface is unlikely to be as permeable as a Type A SUDs permeable surface and additional storage is provided in the form of a geo-cellular crate system is proposed.

Interception drainage channels will be laid at two points and direct surface water to the soakaway. A test hole has been excavated to determine the permeability of the soils.

The hole measured 1.5m long x 1,2m deep and 0.6m wide. The time for the water level to fall from the 75cm to 25cm level was 96 mins which equates to an infiltration rate of 0.067 mh⁻¹ which is suitable for a soakaway system

The combination of the soakaway and porous asphalt will ensure the drainage is contained within the site.

Maintenance

A monthly maintenance plan will be adopted to ensure all gullies and flow routes are kept clear of debris (including weeds).

Stabilise and mow contributing adjacent areas.

Remove weeds or management by using an appropriate herbicide by applicator (not spraying).

Monitoring

Inspect for weed growth or evidence of poor operation and take remedial action.

Inspect silt accumulation and take remedial action if required

Drainage Plan attached separately

Images



