



Proposed Impermeable Area - 2800m2 Scale 1/1000



Watercourse to the East

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Status			
No.	Revision	Date	Drwn

Drainage Strategy

The site is located within flood zone 1 with a low risk of flooding from rivers or the sea, therefore a site specific flood risk assessment is not required.

NPPF guidelines require that surface water arising from a developed site should as far as practicable be managed in a sustainable manner to mimic the surface water flows arising from the site prior to development.

Under the SUDS Hierarchy the first point of discharge is via infiltration. A Percolation Test was carried out by Dart Engineers and the results show soakaways are not viable on this site.

The second point of discharge is via Watercourse which there is to the east of site.

Surface Water:

As the site is Greenfield we propose to discharge at Greenfield Rates of 1.4/s per ha. The site is 19120m2 so the rate of discharge is 2.67/s which will be achieved via 75mm Hydrobrake.

Using this rate and an impermeable area of 2800m² the required volume of storage for the 1 in 100 Year + 45% CC Storm is 240m³ this will be achieved using an attenuation basin with a base area of 795m2 and 1/3 sloped sides giving a total volume of 1051m³.

Flows will be directed using perforated pipes and direct to the pond where it will enter the Hydrobrake and then onto watercourse to the east of the site.

IDB Consent will be sought for the new development.

Foul Water

Foul Water to discharge to a Foul Treatment Tank and then discharge to the watercourse via the basin subject to IDB Consent.

Maintenance

The site is to remain private and site owner will be responsible for the maintenance and management of the sewers, please see Maintenance Schedule for list of actions to be undertaken.

Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Watercourse
- Flood Exceedance Routing



CONTACT e: andy@dart-engineers.com
e: robt@dart-engineers.com
m: 07725281902
w: www.dart-engineers.com

CLIENT Mr Farrow

PROJECT Eastfields, Feoffee Common Lane

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