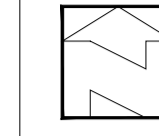


# Thornley Smithy Cottage

110.3m  
34.9mph  
R



Proposed Impermeable Area - 540m<sup>2</sup> inc 10% Urban Creep  
Scale 1:500

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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 that soakaways will not be viable on this site.

The second point of discharge is watercourse which there is to the west of site which would be our proposal to connect into.

### Surface Water:

A flow restriction of 0.5/s has been set in order to reduce blockages on site this will be achieved by a 16mm orifice plate

The proposed impermeable area is 540m<sup>2</sup> including 10% Urban Creep. Based on a flow restriction of 0.5/s and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is 29m<sup>3</sup>.

Attenuation for the proposed impermeable area of 540m<sup>2</sup> to be provided via ATTENUATION BASIN measuring 13x7x1m.

Surface water from the proposed new site will connect into the existing watercourse subject to agreement with IDB.

### Foul Water

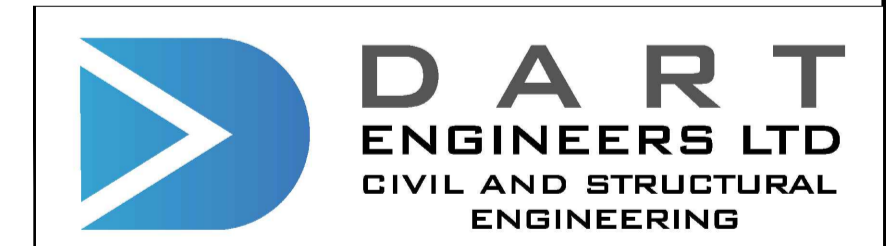
Foul Water to be treated by Klargester and then discharge to the watercourse subject to IDB Consent

### Maintenance

The site is to remain private and homeowners 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



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**PROJECT**  
Thornley Hall Farm

**DRAWING TITLE**  
Drainage Strategy

Drawn	RT	Chkd	AD	Date	29.06.23	Scale	1/250
Sheet Size	Drawing No.		Revision		P3		
A1	23336-DR-C-0100						