



Proposed Drainage Plan (1:500)

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Status			
Preliminary			
No.	Revision	Date	Dwn

Notes:

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.

2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Key:

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing YW Combined Sewer
- Proposed route of diverted S185 sewer to avoid new development
- Existing YW Combined Sewer to be abandoned

Drainage Strategy

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. Soakaway tests were undertaken by Lithos Consulting and in the area where we are proposing to have soakaways the tests were favorable with an infiltration rate of 4.7m/h.

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.

Surface Water:

Infiltration Rate = 4.7m/h

The proposal would be to drain the development to an infiltration basin in Area A as marked out on Lithos Report Drawing 4473-2.

The impermeable area is 52640m² for the full site which includes 10% Urban Creep. The total volume required for the impermeable area draining at a rate of 4.7m/h = 860m³.

This would be achieved by a 1.5m Deep Infiltration Basin with 1/2 sides, and 400mm freeboard. There would be an access track and 3m perimeter around the pond to allow for maintenance.

The infiltration basin would be adopted by Yorkshire Water subject to a S104/S106 agreement.

Foul Water:

Foul water from the proposed new site will connect into the existing YW combined Sewer subject to a S104/S106 agreement.

There will be a requirement to divert the existing combined sewer to the proposed foul sewer subject to a S185 agreement.

No.	Revision	Date	Dwn

Status: PRELIMINARY

DART ENGINEERS LTD
CIVIL AND STRUCTURAL ENGINEERING

Client: UBRIQUE INVESTMENTS LIMITED

Project: STORTHERS HALL, KIRKBURTON

Drawing title: DRAINAGE STRATEGY

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