



Drainage Layout Plan (1:500)

Key:

—○— Proposed Surface Water Drainage

—●— Proposed Foul Water Drainage

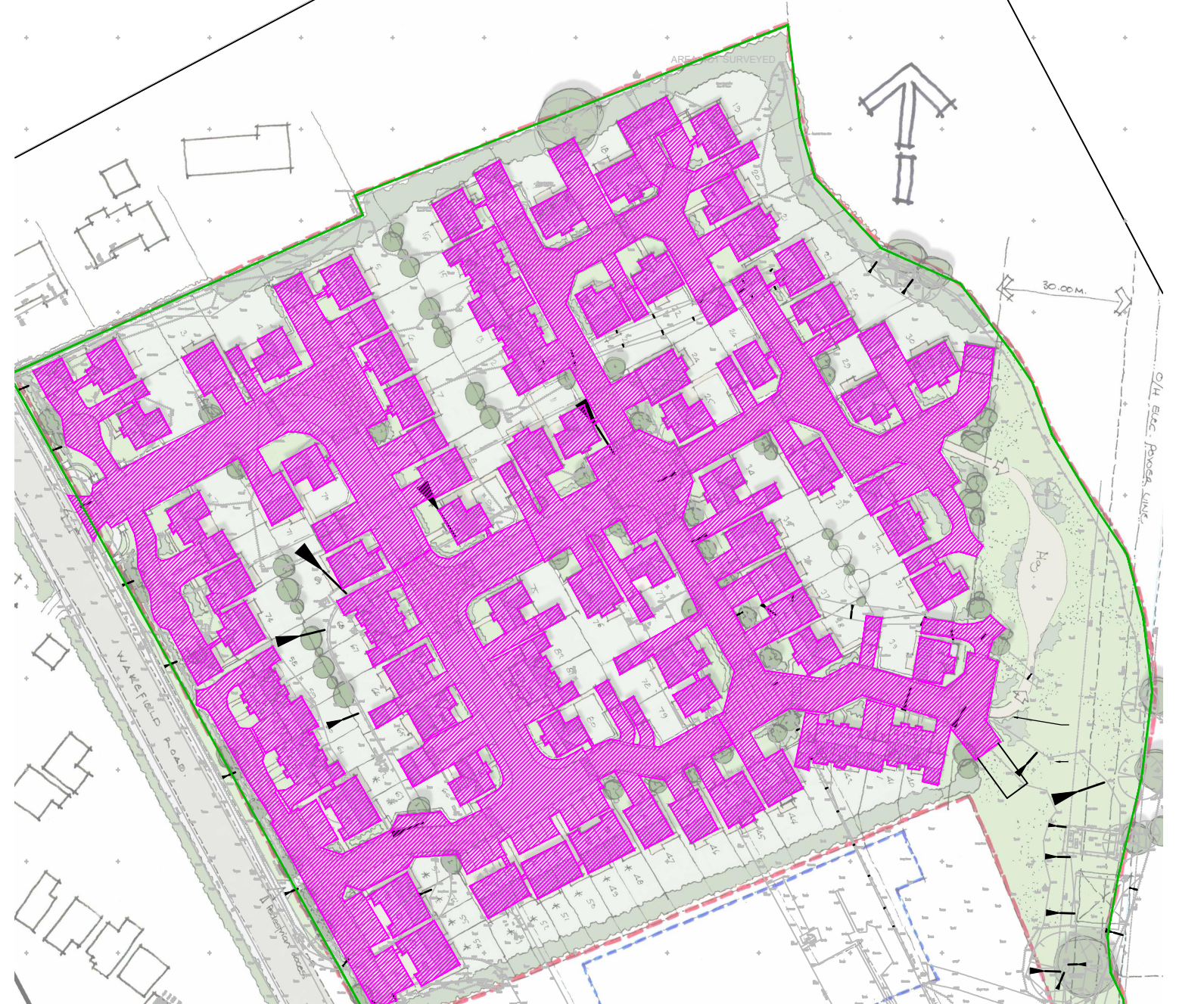
Impermeable Area
Proposed Impermeable Area 14960m²
GREENFIELD RUN OFF (IH124 METHOD)
SITE AREA - 32480m²
RURAL GREENFIELD RUN OFF @ 3.248ha - 14.6l/s
It is therefore proposed (subject to agreement) that surface water flows from the development be restricted to a peak flow of 14.6l/s.

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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.

RWP AND SVP/FOUL CONNECTIONS ARE SUBJECT TO FINAL CONFIRMATION BY ARCHITECT



Drainage Strategy

The site is located within flood zone 1 with a low risk of flooding from rivers or the sea.

The site is currently Greenfield and has an area of 32480m². Calculations using IH124 method indicate the Greenfield run-off based on the site area is 14.6l/s.

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. It is proven that the ground conditions are not be suitable for soakaways. For details of the percolation test results please see report in site investigation.

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:

Greenfield flow is calculated at 14.6l/s. Subject to agreement with LLFA

The proposed impermeable area is 14960m². Based on a flow restriction of 14.6l/s and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 30% climate change is **781m³**.

Attenuation to be provided via **CARLOW CONCRETE TANK (26x15x2.0m Deep)**. The flows will be attenuated using a 158mm Hydrobrake control device ref MD-SHE-0158-1460-2000-1460.

Surface water sewer to connect into a new surface water sewer. Off site route to be confirmed.

Foul Water:

Foul from the site will be an adopted network which will gravitate to an adopted foul pumping station in the south east corner of the site. This will be pumped to an new adopted Foul sewer which will connect to the existing 225Ø foul sewer which runs adjacent to Wakefield Road in the rear of plots on Eastfield Crescent subject to a section 106 application with YW. Off site route and exact connection point to be confirmed.

No.	Revision	Date	Drawn
Status			
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Client Netherton Building and Construction Ltd			
Project Former William Freeman Site Wakefield Road, Mapplewell			
Drawing title Drainage Strategy			
Drawn RTM	Chkd	Date Nov 2017	Scale var
Contract No. 17547	Drng No. C-50	Revision	-