



Drainage Strategy - Scale (1:200)



Proposed Impermeable Area Plan - Scale (NTS)

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Status			
<b>PRELIMINARY</b>			
No.	Revision	Date	Drawn

**Drainage Strategy**

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

Dart Engineers undertook Percolation Test on 22nd December 2025 which shows infiltration is not viable. Please refer to Dart Engineers Percolation Test Report.

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:**

Flow restriction 3.5l/s will be achieved using a private package pump as the SW flow rate agreed with YW in planning consultation.

The proposed impermeable area is 990m<sup>2</sup> including 10% urban creep, please see 3.5l/s and modeling using Causeway Flow software the attenuation requirement for a peak return period of 1 in 100 year plus 45% climate change is 51m<sup>3</sup>.

Attenuation for the proposed impermeable area of 860m<sup>2</sup> to be provided via GEO-CELLULAR TANK = 10x7x0.8m DEEP = 53.2m<sup>3</sup>.

Surface water from the proposed site will connect into the existing YW surface water sewer subject to an s106 agreement.

**Foul Water:**

Foul water from the proposed site will connect into the existing YW foul water sewer subject to an s106 agreement.

**Existing Foul Sewer:**

An existing Thames Water foul sewer crosses the site. It is proposed to construct over this sewer under Part H4 building regulations.



**CONTACT**

e: andy@dart-engineers.com  
e: rob@dart-engineers.com  
t: 01837 339827  
w: www.dart-engineers.com

**CLIENT**

WHITE AGUS

**PROJECT**

MANSFIELD ROAD, BARNSELY

**DRAWING TITLE**

DRAINAGE STRATEGY

Drawn	AD	Chkd	RT	Date	DEC 2025	Scale	AS SHOWN
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