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Drainage Strategy

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

The existing site is a grassed field.

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:

We have followed the SUDS Hierarchy and due to percolation tests being unsuccessful and no nearby watercourses we are proposing to drain to the Yorkshire Water Sewer on site subject to S106 agreement with Yorkshire Water

The proposed impermeable area is 1200m² including 10% Urban Creep

It is our proposal to use a Hydrobrake at 2.5l/s discharge to prevent blockages.

Based on a discharge rate of 2.5l/s restricted by HydroBrake MD-SHE-0078-2500-0800-2500 and an impermeable area of 1200m²

The attenuation required for the peak return period of 1 in 100 year plus 30% climate change is **72m3**.

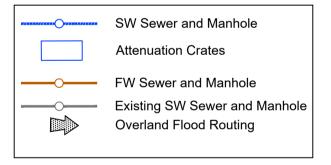
This will be achieved by Storage Crates

 $10 \times 9 \times 0.8 \text{m} = 72 \text{m}^3$

Foul Water:

The foul water is proposed to connect unrestricted to the existing Yorkshire Water sewer running through the school site, this is subject to S106 agreement with Yorkshire Water

KEY



No. Revision Date Drwn

Status PRELIMINARY

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Project
LAND AT ACOMB PRIMARY SCHOOL

Drawing title

Drainage Strategy

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Date
JULY 21
Contract No.
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Project
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P2