

DRAINAGE STRATEGY STATEMENT

**FOR
WEST WALBERTON
ARUNDEL**

Client:
MACRA LTD

Civil Engineer:
WFBA
Unit 1,
Pucknall Farm,
Dores Lane,
Braishfield,
Romsey,
Hampshire, SO51 0QJ

Job Ref:	19025
Report Reference:	DOC-001_V2
Date:	25.02.2021

Surface Water

The surface water drainage comprises a combination of permeable paving with type 3 subbase storage, a structural concrete culvert beneath the highway will provide edge restraint to the lower landscape areas within which a pond may be formed. The concrete culvert will provide bulk storage of flood water allowing controlled discharge to the pond. The permeable paving will act as the main collection point for all surface water, including roof and highway drainage.

The pond will be the main collection feature prior to discharge with the potential for a variable water level to suit seasonal rainfall events and to provide biodiversity. Outflow from the pond will be restricted to 4.4 l/s to reflect the current greenfield run off rate from the undeveloped site.

The forecast undeveloped flood level is 12.98mAOD. It is proposed to excavate within the area of the proposed pond to reduce levels to meet the current ground water level. This will increase the potential storage capacity and communicate directly with the ground water to establish the pond. To ensure both inflow and outflow are balanced there will be a discharge point with the local watercourse downstream of the site as shown on the attached plan.

If the preferred option is to keep the site's drainage system separate from the proposed pond and any biodiversity features, the connection downstream from the flood zone can be used without intrusion by providing a connection directly from the proposed culvert.

Foul

The foul drainage strategy shows a connection from the site to the public foul sewer located in Eastergate Lane, reference number M/H 5002. The invert level provided on Southern Water sewer records indicate the invert level to be at 8.83mAOD with the downstream pipe at 175mmØ VC. This allows for a gravity discharge from the site. This will need to be confirmed and approved by Southern Water, via a Developer Enquiry (approved discharge rate) and Section 106 agreement (approved connection construction method).

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