



1. In order to provide an acceptable surface water drainage strategy for the proposed development, the SUDS hierarchy for sustainable drainage has been followed. Where meeting this through the proposed ground water storage pond is not possible, the following measures will be implemented to ensure the water is captured and the highest recorded rainfall being 0.01mm below ground.
The nearest watercourse is a 0.26km east of the site and any water to it will be one mile apart, and to which the development does not apply. The new York UK Design Standard for the design of a surface water storage pond will be used.
Construction of a surface water pond and SUDS Water Storage pond will be used to capture a surface water runoff at a watercourse so the pond is not used as a watercourse.
Southern Hemisphere rainfall data show that there are no public surface water sewers in the vicinity that would provide a dispersing solution.
Similarly there are no designated confluence water courses in the vicinity.
All sewer stacks 50 metres apart are set within 100m from the site. The drainage will be set within the permitted land of the area under the underground site utilizing the H1/24 Annual Flood Period analysis.

2. Lifting the allowable discharge of 1.0 t/d sewage and charging for the 1.1 t/d (year 2000) sewerage treatment plant. The sewerage treatment plant is a 100% sewerage treatment plant even with an additional 40% allowance for climate change and increasing future 70% allowance on the implementable area for urban sewage. The volume of additional treatment required calculated by the MCoD approach is 70.5m³.
3. It is proposed that this volume will be stored in a culvert adjacent tank at the southern end of the site prior to discharging through a pump chamber to a receiving watercourse. The culvert will be constructed in concrete, with a 1.5m diameter manhole and then by gravity into the public foul mainline at RD202 in Oak Tree Concession to the public mainline would be subject to a S106 Agreement with Southern Water.

4. All surface water drainage features and pollution control measures will be maintained by the site specific management company set up for any site maintenance requirements and which will be funded by an annual payment from residents.

- ### Foul Water Drainage Strategy

Foul Water Drainage Strategy:

1. The nearest public foul sewer is situated 55 metres west of the site in Oak Lane. Due to the level differences between the site and the receiving manhole Ref 9202 it is not possible to provide a gravity discharge from the site to the public sewer. It is proposed that a Type 1 Pumping station is installed at the southern end of the site to serve the five new dwellings, with a rising main discharging into a receiving manhole prior to discharging by gravity into the public sewer, Carleton Road. The proposed foul sewer is shown on the site plan. The proposed foul sewer to the receiving manhole would be subject to a Section 106 Agreement with Southern Water.

- | | |
|---|-----------------------------------|
|  | Existing public foul water sewer |
|  | Type 2 manhole - 1200mm Ø |
|  | Domestic surface water drain. |
|  | Domestic foul water gravity sewer |
|  | New foul water rising main |
|  | New surface water rising main |

Type 1 foul drainage pumping station

Surface water attenuation storage

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 Flood Flow Route

Drawing Status

Project

WUDDGAI E

POPOLE
DEVELOPMENTS

KAZYS NARBUTAS

Unit 3B, Tanners Court, Tanners Lane, East Wellow, Romsey, Hants. SO3
Telephone: 01794 522003 Email: karys.m@btac.net

Engineering Details

Drawn	Checked	Scales	Paper Size
KN		1:500	A1

KNC210/	602-01
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