

From: Daniel Vick <Daniel.Vick@arun.gov.uk>

Sent: 17 July 2020 09:20

Cc: Zac Denton <Zac.Denton@arun.gov.uk>

Subject: FG/74/20/DOC

Joe,

Please see comments from our drainage engineers below.

Please provide amended details within 2 weeks (31st July).

Engineers Comments Regarding Surface Water Drainage

The applicant has undertaken winter groundwater monitoring that shows ground water close to the surface. As such, infiltration will not be a viable method of draining surface water from the site and no infiltration testing is required.

According to our records there are no watercourses or surface water sewers in the vicinity of the site. This means that surface water will likely have to be drained to the foul sewer. We will need to see agreement to this from Southern Water. In addition a capacity check (from Southern Water) will be required to determine the allowable discharge rate from the site. This will need to be submitted to ADC in order to discharge this condition.

Before recommending discharge of condition 3, the following details will need to be submitted:

1. A detailed drainage layout. This should include:
 - a. Pipes: diameters, material type, gradients/falls, invert and cover levels
 - b. Manholes/inspection chambers, silt traps: Cover types, invert and cover levels. (A silt trap must be provided upstream of an attenuating structure.)

- c. Control structures (if necessary): As b. plus the restricted flow rate and design head.
 - d. Attenuation features: Dimensions, invert and cover levels.
2. Calculations to show the volume of the attenuation structure required as a result of Southern Water capacity check.
 3. Construction detail drawings for all components listed above plus pipe bed and surround.
 4. Agreement from Southern Water to the proposal to discharge surface water to the foul.
 5. A capacity check from Southern Water showing the allowable discharge rate of surface water to the foul sewer.

Due to the scale of work and detail required, and the anticipated time frame to complete such work, it is recommend that this discharge of conditions application is refused and the applicant re-submits at a later date.

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