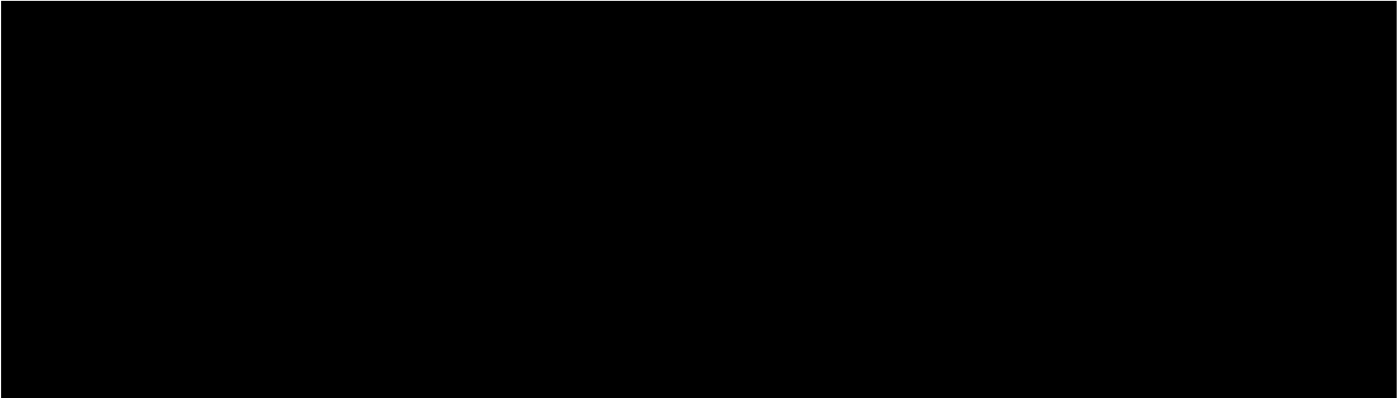






From: Roger Spencer <Roger.Spencer@arun.gov.uk>
Sent: 30 March 2022 09:58
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: RE: RE: LU/417/21/OUT - 71 units at Toddington ADDENDUM COMMENT

Dear Michael,

Please see below (in **BOLD RED**) an addition to my response of yesterday – it highlights the existing 150mm dia. Foul sewer that is mentioned below (easement clash) also has permeable paving over it. This sewer is not shown on our records as being adopted by Southern Water but it may be a update timing issue. The sewer is shown on Drg D1970-PL300 (A)

This does not alter my No Objection comment but will need clarification at Detail Design Stage if you are minded to approve the Application.

Regards,

Roger

From: Roger Spencer
Sent: 29 March 2022 15:44
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: RE: LU/417/21/OUT - 71 units at Toddington

Dear Michael,

This Outline Application builds upon the approved Outline Application LU/47/11 and subsequent approved Discharge of Condition Application LU/17/19/DOC.

The attenuated discharge rates for each parcel of the site (A & B) are as per the strategy (approved in 2019) i.e. 5l/s. The form of the attenuation is a pond in Site B and underground cellular crates in Site A, and whilst the volume

provided by these is not as set out in LU/17/19/DOC sufficient space would seem to have been allowed but this will be confirmed as part of the detailed drainage design (under PCENG2). The 150mm dia. pipes provided by others are proposed to be used, there would seem to be a little by way of existing land drainage features or tree protection measures that require special attention.

I would therefore not wish to object to this Outline Application.

However, please ensure that the FRA, drainage design strategy & hydraulic calculations are not considered approved documents.

It is noted that there is to ground raising to enable the site to be drained by gravity; due consideration must be given to the potential impacts on existing properties adjacent the development site, in terms of possible elevated groundwater levels and surface water run-off implications.

It is noted that there may be a conflict with an existing foul sewer easement running north/south in Site A and one of the Site A units that faces north. This is shown on Drg. D1970-PL300(A) – this drawing also shows that there is to be permeable paving over an existing 150mm dia. Foul sewer – I am not sure about the status of this existing sewer but if it is, or will be, adopted by Southern Water, there may be an issue regarding permeable paving over their apparatus. There would also seem to be a 225mm dia. Surface Water sewer, serving the swale behind 65-85 Hinchcliff Drive, which flows north-east to the manhole in the entrance to Site A. This is not shown in LU/417/21/OUT drawings but is noted in a LU/17/19/DOC drawing.

If you are minded to approve the application please apply the following conditions to ensure that the development is adequately drained and does not increase flood risk elsewhere.

PCENG2

“Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any Infiltration drainage. No building / No part of the extended building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.”

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works.

And the accompanying informative:

INFORMD

“Infiltration rates for soakage structures are to be based on percolation tests undertaken in the winter period and at the location and depth of the proposed structures. The percolation tests must be carried out in accordance with BRE365, CIRIA R156 or a similar approved method and cater for the 1 in 10 year storm event plus 40% on stored volumes (allowance for climate change) between the invert of the entry pipe to the soakaway, and the base of the structure. It must also have provision to ensure that there is capacity in the system to contain below ground level the 1 in 100 year storm event plus 40% on stored volumes, as an allowance for climate change. Adequate freeboard must be provided between the base of the soakaway structure and the highest recorded annual groundwater level identified in that location. Any SuDS or soakaway design must include adequate groundwater monitoring data to determine the highest winter groundwater table in support of the design. The applicant is advised to discuss the extent of groundwater monitoring with the Council's Engineers.

Supplementary guidance notes regarding surface water drainage are located here Drainage Planning Consultations | Arun District Council <https://www.arun.gov.uk/surfacewater> on Arun District Councils website. A surface water drainage checklist is available on Arun District Councils website, this should be submitted with a Discharge of Conditions Application.”

PCENG3

“The development shall not proceed until details have been submitted to and approved in writing by the Local Planning Authority for any proposals: to discharge flows to watercourses; or for the culverting, diversion, infilling or obstruction of any watercourse on or adjacent to the site. Any discharge to a watercourse must be at a rate no greater than the pre-development run-off values and in accordance with current policies. No construction is permitted, which will restrict current and future land owners from undertaking their riparian maintenance responsibilities in respect to any watercourse or culvert on or adjacent to the site. “

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. And to ensure that the duties and responsibilities, as required under the Land Drainage Act 1991, and amended by the Flood and Water Management Act 2010, can be fulfilled without additional impediment following the development completion. It is considered necessary for this to be a pre-commencement condition to protect existing watercourses prior to the construction commencing.

And the accompanying informative:

INFORMD2

“Under Section 23 of the Land Drainage Act 1991 Land Drainage Consent must be sought from the Lead Local Flood Authority (West Sussex County Council), or its agent (Arun District Council land.drainage@arun.gov.uk), prior to starting any works (temporary or permanent) that affect the flow of water in an ordinary watercourse. Such works may include culverting, channel diversion, discharge of flows, connections, headwalls and the installation of trash screens.

The development layout must take account of any existing watercourses (open or culverted) to ensure that future access for maintenance is not restricted. No development is permitted within 3m of the bank of an ordinary watercourse, or 3m of a culverted ordinary watercourse.”

PCENG4 (NB. Used where a development consists of 5 or more properties)

“Development shall not commence until full details of the maintenance and management of the surface water drainage system is set out in a site-specific maintenance manual and submitted to, and approved in writing, by the Local Planning Authority. The manual is to include details of financial management and arrangements for the replacement of major components at the end of the manufacturer's recommended design life. Upon completed construction of the surface water drainage system, the owner or management company shall strictly adhere to and implement the recommendations contained within the manual.”

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. It is considered necessary for this to be a pre-commencement condition to ensure that the future maintenance and funding arrangements for the surface water disposal scheme are agreed before construction commences.

ENG1

“Immediately following implementation of the approved surface water drainage system and prior to occupation of any part of the development, the developer/applicant shall provide the local planning authority with as-built drawings of the implemented scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.”

Reason : To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan.

Regards,

Roger Spencer
Engineering Services Manager, Place

T: 01903 737812

E: roger.spencer@arun.gov.uk

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