

From: Amanda Scholes on behalf of Planning.Responses
Sent: 20 January 2021 10:58
To: Planning Scanning
Subject: FW: Planning Consultation on: BN/135/20/PL

Amanda Scholes | Receptionist, Department, [Arun District Council](#) | Location: Ground Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37736 | External: +44 (0) 1903 737500 ext 37736 | E-mail: amanda.scholes@arun.gov.uk



Visit Arun's web site at [Error! Hyperlink reference not valid.](#)



Save the environment - think before you print.

From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 19 January 2021 17:38
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: James Cross <James.Cross@arun.gov.uk>
Subject: RE: Planning Consultation on: BN/135/20/PL

Engineers Comments Regarding Surface Water Drainage

The documents submitted in support of this application suggest that the proposed means of surface water drainage is through infiltration. It is likely that groundwater is relatively high in the area. Winter infiltration testing and groundwater monitoring must be completed to support drainage proposals, this infiltration testing should include testing at shallow depths appropriate for permeable paving.

The surface water drainage scheme design should follow the hierarchy of preference as set out in Approved Document H of the Building Regulations and the SUDS Manual produced by CIRIA. Therefore the potential for on-site infiltration should be investigated and backed up by winter groundwater monitoring and winter infiltration testing. The results of such investigations will be needed to inform the design of any infiltration structures, or alternatively be presented as evidence as to why on-site infiltration has not been deemed viable for this development. Groundwater monitoring results will also be required if attenuation is proposed to ensure that the risks of floatation are adequately accounted for in design.

If on-site infiltration is to be utilised, any soakage structures should not be constructed lower than the peak groundwater level. Wherever possible, roads, driveways, parking spaces, paths and patios should be of permeable construction.

It should be noted that the application site has an ordinary watercourse running to the south of the site, this watercourse is not immediately adjacent to the site. However, if infiltration is found not to work at this site it may be that discharge to this watercourse is required. Any discharge should be restricted to QBAR runoff rates.

We suggest that, at the earliest stage, the developer gives due consideration to the appropriate location and design of surface water drainage features to achieve necessary capacity, water quality (via the SuDS management/treatment train), as well as ease of on-going maintenance. Surface water drainage features should also be designed in a manner that positively affects the amenity of the site. We would like to remind the developer that, open features, such as swales, basins and ponds, when designed correctly, can satisfy all the above aspirations in addition to; being easier to maintain, having longer lifespans and offering ecological advantages over subterranean features such as “plastic crate systems”. The design should also reflect the natural catchments present, ground raising or pumping are not sustainable solutions and are not supported by us.

Given the nature of the development, to bring it in line with current guidance, the documentation supporting the drainage design should be able to demonstrate that the infiltration/SUDS features can accommodate the water from a 1 in 100 year critical storm event, plus an additional 40% climate change allowance.

Should the application be approved we recommend the following conditions be applied to ensure the site is adequately drained:

PCENG D2

“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.

PCENG D3

“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. 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.

PCENG D4

“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.

ENGDI

"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.

And the accompanying informatives:

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 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 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

<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."

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."

Kind Regards

Sarah Burrow

Engineering Assistant, Engineering Services

T: 01903 737815



E: sarah.burrow@arun.gov.uk

Whilst national restrictions are in place I will be working flexibly between the hours of 8am and 8pm. I appreciate your patience if I am slower than usual to respond. Equally I understand that you may be facing similar challenges and varying work patterns and will not be expecting immediate responses to my e-mails.

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

Sign up to our newsletter [here](#)



From: Planning.Responses <Planning.Responses@arun.gov.uk>
Sent: 07 December 2020 08:34
To: Land Drainage <Land.Drainage@arun.gov.uk>
Subject: Planning Consultation on: BN/135/20/PL

To: **Engineers (Drainage)**

NOTIFICATION FROM ARUN DISTRICT COUNCIL

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Planning Permission

Application No: BN/135/20/PL
Registered: 4th December 2020
Site Address: Boweries Barnham Road Eastergate PO20 3RT
Grid Reference: 495055 105138
Description of Works: Construction of 30 no. dwellings, new access, public open space, landscaping and associated works (submission following EG/22/19/OUT). This site is a Strategic Site in SP2 (Zero Rated).

The Council have received the above application.

[Click here to view the application details](#)

Should you have any comments to make, these should be sent by replying to this email by 10th January 2021. You can also monitor the progress of this application through the Council web site:

www.arun.gov.uk/planning.

The application will be determined having regard to the development plan policies (if any are relevant) and other material considerations. The development plan can be accessed via the website <https://www.arun.gov.uk/development-plan> as can the leaflet how to respond to planning applications <https://www.arun.gov.uk/planning-application-comments> which deals with material planning considerations.

Please be aware that any comments you may make will be available on our website so please do not insert personal details or signatures on your reply.

Should the application go to appeal the Planning Inspectorate will publish any comments made to the Council on their website: <https://www.planningportal.co.uk/info/200207/appeals> but they will protect personal details.

In the absence of a reply within the period stated, I shall assume that you have no observations to make

Yours sincerely

James Cross

Planning Officer- Arun District Council

Telephone: 01903 737784

Email: james.cross@arun.gov.uk

PLCONSULT (ODS) 2020