



From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 13 July 2021 14:55
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: AL/59/21/DOC

Dear Simon,

Thank you for reconsulting us on this application. The revised design is an improvement over the previous scheme as a gravity system is now proposed. However, we still have a significant number of comments.

Condition 10- surface water drainage design

1. Calculations need to include the network/ slope of permeable sub-base as well as a surcharged outfall. The surcharged level should be set to a level equivalent to the top of bank of the watercourse. Calculations do not indicate the design head required for the hydrobrake, we expect to see design head and aperture size clearly defined in calculations and drawings to ensure that flows provided in practice are correct.
2. Please provide a catchment plan. Please confirm what areas urban creep has been applied to, it appears to have been applied to all areas when you do not need to, i.e. it does not need to be applied to roads.
3. Groundwater monitoring is insufficient, as is infiltration testing. Groundwater monitoring does not appear to have actually been completed, recordings of groundwater strikes when excavating TPs is not monitoring. Infiltration testing was completed too deep and in the summer.
4. Invert levels of all pipes connecting into the permavoid need to be detailed on plan. As well as the outlet level.
5. Catchpits are required upstream of all connections into the permavoid/ sub-base, this requirement should be clearly shown on plan.
6. The proposed road make up is very confusing- permeable asphalt is proposed over type 1 (not permeable) which receives water from permachannels. The type 1 then overlies the permavoid tanks which are detailed to be fully encapsulated in an impermeable liner. This simply does not work, provide a permeable link between the road surface and permavoids must be provided. Please provide a permeable sub-base material, e.g. type 3, and a permeable geotextile fully wrapping around the crates. If an impermeable liner is required this should be around the base of the tanks and then up the sides of the tank and sub-base.
7. It needs to be indicated on plan where the section drawing relates to as road levels vary throughout the site.
8. Can driveways be redesigned to have a fully permeable make up linking to the sub-base of the road to provide greater storage and treatment at source? Rather than having to rely upon proprietary treatment devices.
9. A site specific construction detail drawing of the hydrobrake chamber is required.
10. The fall of the pipe from the permavoid to the ditch is insufficient. All pipes must achieve 1m/s self cleansing velocity. I haven't been able to scale off your plan (as I do not have access to a plotter today) to examine the slope of the permavoids/sub-base, but is there potential to slacken this at all?

11. Please label all pipes with diameter and fall.
12. I note that the invert level of the ditch outlet has now been established. As detailed by Paul previously "*The existing ditch re-grading is noted, however, your topo survey needs to extend all the way to where the ditch outfalls into Barratts suds system via an existing 300mm pipe. Information should include the invert level of their pipe and any existing trees on route that may interfere with regrading this ditch to the desired levels. We can then have a further discussion in terms of what can be achieved. Existing trees are known to be growing in the ditch bed and will no doubt require discussions with an arboriculturist and possibly our tree officer.*" We need to have this information and complete these further discussions to establish for certain what outlet level is acceptable from your site.
13. We need to consider the conflict between trees and drainage, as detailed by Paul previously. I await further information from the applicant/ their arboriculturist on this.
14. All of the land drainage consent comments will need to be resolved.

Condition 11- discharge of flows to watercourse

We are still awaiting further survey information on the watercourse. Land drainage consent has not yet been granted and further work and discussions are required.

Condition 12-maintenance and management of surface water

It is not possible to recommend discharge of this condition until the design has been agreed.

Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



T: 01903 221374

E: laura.gibbons@arun.gov.uk

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

From: Planning.Responses <Planning.Responses@arun.gov.uk>

Sent: 08 July 2021 16:23

To: Land Drainage

Subject: Planning Re-Consultation on: AL/59/21/DOC

To: **Engineers (Drainage)**

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

Application No: AL/59/21/DOC
Registered: 25th May 2021
Site Address: Springfield Hook Lane Aldingbourne PO20 3TE
Grid Reference: 493480 104546
Category: Discharge of Condi
Description of Works: Approval of details reserved by condition imposed under AL/64/20/PL relating to conditions 9-foul drainage, 10-surface water drainage, 11-flows discharge & 12-maintenance & management of surface water drainage.

I am able to inform you that I have received an amendment to the above application dated 8th July 2021 relating to: Drainage Drawings, Testing, Calcs & Revised Maintenance Plan

[Click here to view the plans and documents](#)

If you should wish to make further representations as a result of this amendment you should click the link below and then click on 'Enter comment'.

[Click here to make further comments](#)

Please make any further comment by **20th July 2021**.

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.

Yours sincerely

Mr S Davis

Planning Case Officer-Arun District Council

Telephone: 01903 737874

Email: Simon.Davis@arun.gov.uk

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