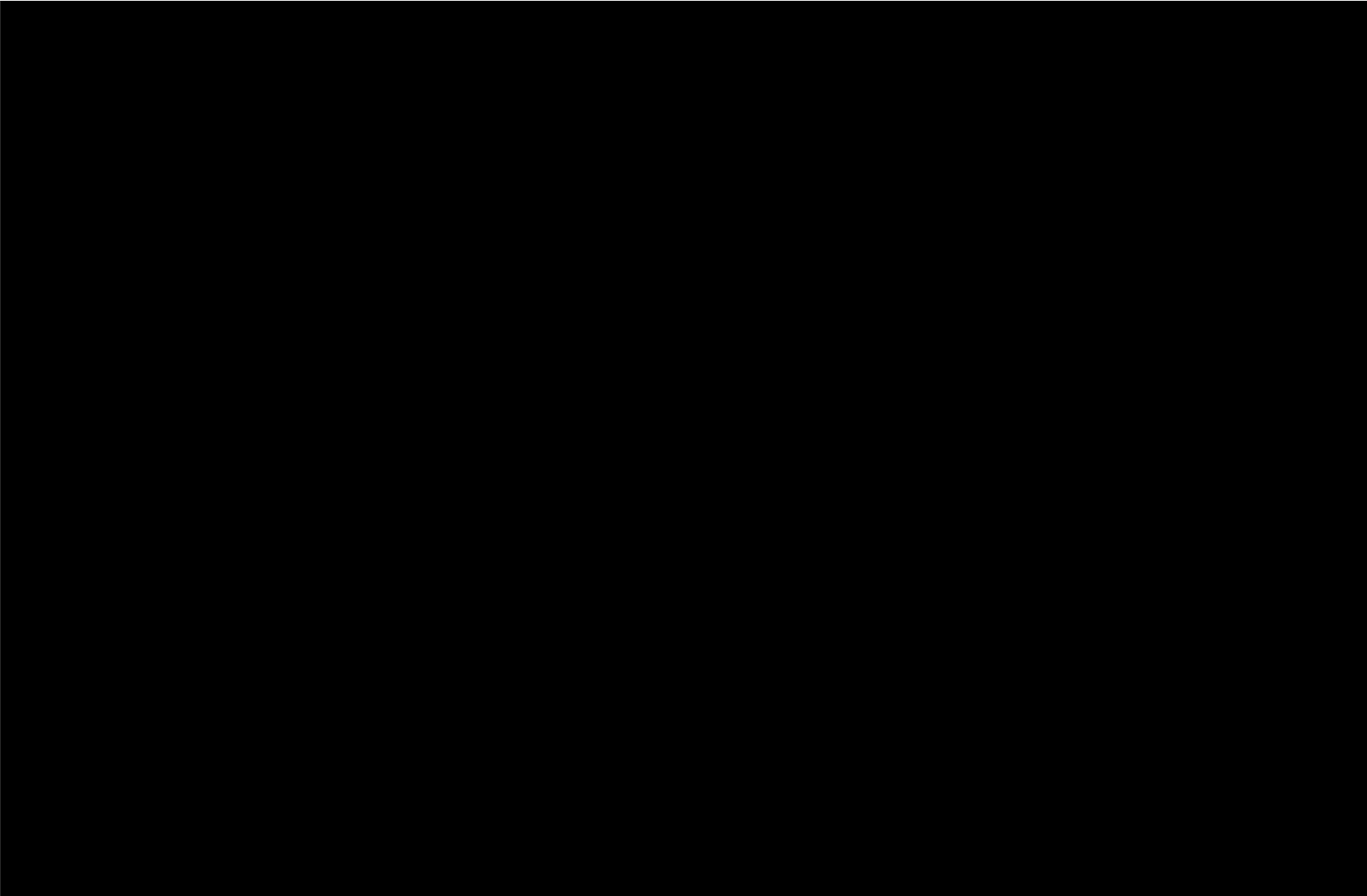




From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 05 April 2022 11:13
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: David Easton <David.Easton@arun.gov.uk>
Subject: RE: Planning Consultation on: Y/33/22/DOC

Engineers Comments Regarding Condition 9

1. Please provide a layout plan showing the locations and results of groundwater monitoring and infiltration testing.
2. Please provide greenfield runoff rate calculations for the proposed impermeable area which is positively drained.
3. Please provide catchment impermeable areas diagrams.
4. Please provide exceedance flow drawings.
5. Please detail hydrobrake unit references on layout and details.
6. Please provide calculation printouts of inputs to calculations which include pipes and manholes.
7. Please ensure consistency between calculations and layouts.
8. Please clearly label finish and formation level of all permeable paving areas.
9. Please label cover levels of gullies.

10. Please detail proposed outfall inverts, along with invert of culvert at the proposed points of connection. Connection should be made soffit to soffit.
11. Please provide cranked grilles at a 45 degree angle.
12. Please detail invert levels of hydrobrakes and invert levels of overflows for each flow control device on the detail drawing.
13. There are inconsistencies between layout and details for the attenuation tank. Layout states a depth of tank of 1.5m but detail states a depth of 1.6m. Please ensure consistency.
14. Please provide catchpits upstream of attenuation tanks and basins (unless basins are to have sediment forebays).
15. Please clearly show location of diffuser tanks in permeable paving, and connections of these to the drainage network. Please label diffusers with invert level.
16. Please provide a construction detail of permeable paving which clearly defines the construction, i.e. blocks, bedding, membranes, sub-base, tanking membrane. Materials and depths should be clearly defined.
17. Please provide a buffer plan showing a 3m buffer around basins and around watercourses.
18. Please provide evidence of land drainage consent for the proposed road crossings.
19. Please provide evidence of a flood risk activity permit for the proposed discharge to main river culvert.
20. Please provide details of proposed improvements to the main river culvert near the Millers as previously discussed.
21. The pipe between S75a and S75 appears to be within the profile of the watercourse, this is not acceptable. A minimum of 150mm concrete surround to the pipe will be required, and the top of this must be below hard bed level. It may be multiple smaller diameter pipes are required. Please adjust proposals and provide hard bed watercourse levels so that this can be further reviewed.
22. Please provide flotation calculations for cellular storage.
23. Please apply a factor of safety of 0.9 to stabilising forces in buoyancy calculation (as per Eurocode 7).
24. Please provide construction detail drawings of basins which clearly show required depths of topsoil and clay over liner which tally with flotation calculations. These details should show invert level, peak water level, and top of bank level of each basin, along with bank slope. Two perpendicular details per basin should be provided.
25. Please provide details of proposed landscaping evidencing that tree root potential areas of new and existing trees do not conflict with surface water drainage features.

Please note that more comments are likely as a review of calculations and a detailed review of layouts has not been completed due to the shortcomings with the information presented. Due to the number of comments above and the level of information which is missing we would support a refusal of this application at this time.

We would recommend that the applicant reviews our checklist, completes this, and supplies it with a new application. Our surface water drainage checklist can be found here: <https://www.arun.gov.uk/drainage-planning-consultations>

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 or [REDACTED]

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

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

Sent: 21 March 2022 11:19

To: Land Drainage <Land.Drainage@arun.gov.uk>

Subject: Planning Consultation on: Y/33/22/DOC

To: Engineers (Drainage)

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

Application No: Y/33/22/DOC

Registered: 9th March 2022

Site Address: Land at Bilsham Road Yapton

Description of Works: Approval of details reserved by condition imposed under ref Y/91/17/OUT relating to Condition No 9 - surface water drainage.

The Council have received the above application to discharge conditions. I shall be pleased to receive any observations you may wish to make in respect of those conditions relating to your field of expertise.

[Click here to view the Discharge of Condition application](#)

[Click here to view conditions on original application - click on decision tab](#)

Should you wish to make any comments click on the link www.arun.gov.uk/planning and click into ?Enter Comment? or if this is not possible email your response to planning.responses@arun.gov.uk by **4th April 2022**.

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.

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

Yours sincerely

Mr D Easton

Planning Case Officer- Arun District Council

Telephone: 01903 737500 ex37361

Email: david.easton@arun.gov.uk

PLC/OND/00 (005) 2015