

Simon Davis

From: MarkHobbs [REDACTED]
Sent: 15 November 2021 12:22
To: Sarah Burrow; Planning.Responses
Cc: Simon Davis; Paul Cann; Glynn Curtis
Subject: RE: Planning Consultation on: P/146/21/DOC
Attachments: Barfoot - Sefter Barn FC2846.02F SW Drainage.pdf; Barfoot - Sefter Barn FC2846.05A - Dr Details.pdf; ALT-151121-201-01 A.pdf; ExportsHQT-081427 _design.pdf

Importance: High

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Dear Sarah

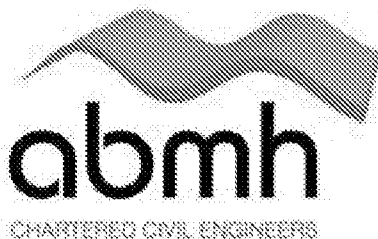
Many thanks for your email – to which we respond as follows in red– please refer you your email below

Trust all Ok for approval now

Thanks

Kind Regards
ABMH Civils Ltd

Mark Hobbs BEng(Hons) CEng MICE MCIHT Eur Ing
[REDACTED]



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From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 11 November 2021 16:52
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>; Paul Cann <Paul.Cann@arun.gov.uk>
Subject: RE: Planning Consultation on: P/146/21/DOC

Engineers Comments Regarding Surface Water Drainage

This consultation is based upon the revised plans which I understand are now uploaded on the portal and has been provided in liaison with Paul Cann (Principal Drainage Engineer). The site investigations found that infiltration was not viable on the site and as a such an attenuation scheme has been designed. Discharge rates have been restricted to 2l/s as requested and calculations have been provided to evidence that all surface water for the 1 in 100 year (+40% climate change) event will be stored on site in the proposed pond before being discharged to the watercourse. The principle of the design is acceptable and the calculations to support the application require no amendment.

However there appear to be a few omissions or errors on the drawings that have been supplied. Please address the following points, after which I will be happy to recommend that the relevant condition is discharged.

1. Groundwater seepages are noted below 2mbgl in February, please provide any further groundwater monitoring that is available as seepage will not represent standing groundwater level.

Not sure about the relevance of this point. The geotechnical report states that soil infiltration is not viable within the site, thus ground water monitoring becomes irrelevant?, and no further ground water level values were recorded on site.

Furthermore, the storage device is a pond, which has a wet portion below the lowest storage level. The water below this level will either create a habitat for wildlife or infiltrate/evaporate as time goes by.

Again water seepage 2m BGL will not affect the performance of the feature as the pond storage depth is only 0.8m (3.1-2.3m AOD)

The principle of soakaways not working on site, and therefore a storage feature and restricted discharge to the watercourse, has been AIP with ADC for some time now.

2. On the Drainage Layout there is a 'Note the following' The second note relating to the Hydrobrake needs to be adjusted for the new Hydrobrake limiting flow to 2l/s. – Noted and Updated
3. Please add a note that all pipe junctions (not connected via manholes) need to utilise oblique junctions. Noted and Updated
4. Please include the width of the base and the width of the top of the pond (in the absence of a site specific cross sectional drawing or a setting out drawing) on the drainage layout. Noted and Updated

Construction Details:

5. Dependant upon the response to point 1 further detail may be required regarding the membrane for the pond (permeable/impermeable) and possible floatation mitigation.

The storage feature is proposed to be constructed in accordance with WSCC S278/38/26 A Drainage Highway Swale detail. The detail highlights an optional liner and or filter membrane (see note No 8) – which states – 'Lining/membranes will be required if location in area of high pollution risk or risk of contamination.' Given this location is clearly not affected by these factors, no liner or filter membrane is proposed.

In addition, with ground water 2mBGL then floatation is not an issue. Given the proximity of the watercourse, the water level within the watercourse probably represents the adjacent GWL most accurately.

Providing no liner/membrane will enable the first flush of water entering the storage feature to be absorbed/infiltrate into the soil – providing a more SuDs like feature

6. Please provide the Althon Detail and Spec for the PCC Headwall Pond Outlet to flow control MH.

Attached

7. Please provide a site specific Hydrobrake detail. Please reference the Hydrobrake on the detail drawing and include the following: *Noted and Updated*
- a) Invert level and cover level.
 - b) Incoming and outgoing pipe diameters.
 - c) No dimensions should be 'tbc' – please clarify.

I will be happy to provide a second consultation under this application, please let me know revised deadlines for this when further information is supplied.

Kind regards

Sarah Burrow
Engineering Assistant, Engineering Services

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M: [REDACTED]



Current working pattern: Monday-Wednesday 8am-2:30pm, Thursday 8am-5pm, Friday 8am-11:30am.

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

Sent: 19 October 2021 14:34

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

Subject: Planning Consultation on: P/146/21/DOC

To: **Engineers (Drainage)**

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

Application No: P/146/21/DOC

Registered: 18th October 2021

Site Address: Little Sefter Farm Pagham Road Pagham

Description of Works: Approval of details reserved by condition imposed under P/38/21/PL relating to conditions 2-surface water drainage scheme, 4-Landscape & Ecology Maintenance Plan & 5-landscape scheme.

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.