[redacted]

From: Amanda Scholes <Amanda.Scholes@arun.gov.uk> **On Behalf Of** Planning.Responses
Sent: 14 July 2020 11:26
To: Planning Scanning <Planning.Scanning@arun.gov.uk>
Subject: FW: FW: FW: Planning Consultation on: BN/57/20/DOC

Amanda Scholes | Receptionist, Department, Arun District Council | Location: Ground Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
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From: Michael Eastham <Michael.Eastham@arun.gov.uk>
Sent: 14 July 2020 11:24
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FW: FW: FW: Planning Consultation on: BN/57/20/DOC

Please upload onto Ocella the email trail below which is the consultation response from **ADC Drainage Engineers** to discharge of condition application **BN/57/20/DOC** regarding The Lillies, Yapton Road, Barnham.

Thanks,

Michael

Michael Eastham
Principal Planning Officer,
Planning Department

T: 01903 737772
E: michael.eastham@arun.gov.uk

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From: Laura Gibbons [redacted]
Sent: 14 July 2020 11:16
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
[redacted]
Subject: Re: FW: FW: Planning Consultation on: BN/57/20/DOC

Michael,

I reviewed this application in accordance with Paul's previous comments, as you will see some of the comments I raise are ones which have still not been addressed. Others, are a result of a more detailed calculation review, which Paul noted as one of his outstanding comments.

I was not aware of the prior agreement regarding discharge rate. Comment 1 on condition 6 can be noted as closed. All of my other comments stand and need addressing.

Due to work loads cases will pass between myself and Paul, we are both adequately qualified and experienced to be doing such work.

Please let us know when revised information has been supplied which addresses our comments.

Kind regards,

On Thu, 9 Jul 2020 at 13:24, Michael Eastham <Michael.Eastham@arun.gov.uk> wrote:

> Paul and Laura,
>
> I have received the following email and attachment from John Freeman regarding discharge of condition application **BN/57/20/DOC** regarding the Lillies, Yapton Road, Barnham.
>
> I look forward to receiving your reply.
>
> Thanks,
>
> Michael
>
> **Michael Eastham**
>
> Principal Planning Officer,
>
> Planning Department

T: 01903 737772

E: michael.eastham@arun.gov.uk

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From: John Freeman [redacted]
Sent: 09 July 2020 13:19
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
Cc: Carina Smith [redacted]
Subject: FW: FW: Planning Consultation on: BN/57/20/DOC

Michael,

Hope you are well given the circumstances.

I have received the attached comments and have to same I am somewhat vexed and largely disappointed.

We had spent a long time agreeing a long list of requirements form Paul Cann (see below). This list was, as far as we were aware, dealt with in full. It is therefore a surprise to see some one new providing comments which even question already approved discharge rates.

Can I ask that these comments are vetted by Paul Cann in the first instance against the list below that was going back and forth between us and Paul.

1. Comments from Southern Water awaited.
2. Ok

3. Ok
4. -
5. -
6. Bottle gully detail noted. Rather than have a removable section of downpipe, it would be preferred for the downpipe to discharge onto a grated cover to collect any larger items of debris before they can enter the system. It is critical that the diffuser units are protected as much as possible. Once any debris/silt is in the diffuser, then the only way to get it out is to dig it up. Hence, a grated cover gives easy visual access into the gully, so maintenance/issues can be recognised more readily. Please adjust and make specific reference to their importance/arrangement in the maintenance manual. We have added a note to all relevant drawings that balloon leaf guards are to be added to all gutters.
7. Ok
8. -
9. -
10. Ok
11. -
12. Ok
13. Southern Water's comments awaited.
14. -
15. If Southern Water are happy with the type B manhole for the shallow manholes, then fine. Await Southern Waters comments.
16. Indicate the depth of pipe cover to suit each bedding type detail, on the drawing. Amended
17. -
18. -
19. Ok (Drawing 601 amended), drawing 600 needs to be too. Amended
20. -
21. -
22. -
23. Ok
24. Winter groundwater monitoring was undertaken on the development site immediately next door to the west. They encountered standing groundwater levels between 600mm and 1000mm deep which is comparable to our knowledge of Barnham. In fact levels can be much higher. Therefore, the pond will need to receive an impermeable liner to prevent groundwater flowing into the system. Provide construction detail/floatation calcs. We note this is different to being asked to assume ground water is at ground level. We also note that the SI done on our site indicates that the ground water in the (typically wet) months the two SI's were undertaken was not this high. Notwithstanding we have undertaken the calcs and they are as follows. If you do assume a dry pond and groundwater at finished ground level, you'll need sufficient soil above the liner to equal 188m3 of water (pond volume), ie 188 tonnes. With soil at 2 tonnes/m3 this means 94m3 of soil are required. For a 240m2 pond area, the soil thickness over the liner will need to be 280mm thick throughout. Therefore an impermeable liner will be installed, with 280mm of as dug material placed over it.
25. Add note to say that the channel drains to be installed as per manufacturers recommendations (including concrete bed and surround, sloping invert where there is no surface fall, and silt trap sump unit on the end). Added
26. -
27. -
28. Ok
29. -
30. Ok
31. -
32. -
33. Ok
34. -
35. Ok
36. Not connecting the 150mm pipe at soffit to soffit level is bad practice. Please rectify, irrespective of the S104 application. Adjusted
37. Await Southern Waters response.
38. Filter drain noted, however it needs to extend up to and including the rear of plot 12. Specify a 100mm pipe as opposed to 50mm. Rodding eye or manhole access required at head of run. Simple concrete bag headwall to be in accordance with the enclosed detail. Adjusted
39. Pipeline 3.000 is showing flooding - please provide evidence that this water will be contained on site without detriment to property or adjoining land. Reviewed and flooding rectified.
40. Please note that we are not the LLFA, so the revision schedule should not make reference to them. Whilst there is minimal risk of blockage of the orifices, please specifically mention them in the maintenance schedule under flow control devices. Approved drawings to be included when available. Adjusted
41. Polypipe orifice chamber is fine. Add note to say to be installed as per manufacturers recommendations. At least two orifice chambers are directly serving areas other than permeable paving ie. roofs. Notably the control chambers

adjacent plots 9 and 13. These will require filters. Please adjust as necessary and note in the maintenance manual as required. We have added a note to all relevant drawings that balloon leaf guards are to be added to all gutters and note added regarding orifice chamber

42. Land drainage consent application awaited. This will be required for the two headwall connections to the ditch. Submission to follow

Regards,
For & on behalf of Woods Hardwick Infrastructure LLP

John Freeman MEng (Hons) CEng MICE MCIHT MIoD
Partner

[redacted]

Woods Hardwick
Architecture | Engineering | Planning | Surveying

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