

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



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From: Michael Eastham <Michael.Eastham@arun.gov.uk>
Sent: 06 February 2020 15:51
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FW: BN/85/19/DOC - The Lillies

Please upload the email below from ADC Drainage onto Ocella for BN/85/19/DOC.

Thanks,

Michael

Michael Eastham | Principal Planning Officer, Strategic Development, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37772 | External: +44 (0) 1903 737772 | E-mail: Michael.eastham@arun.gov.uk



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From: Paul Cann <Paul.Cann@arun.gov.uk>
Sent: 06 February 2020 15:41
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: RE: BN/85/19/DOC - The Lillies

Hi Michael

Comments on proposals;

1. I note that the surface water sewers are being offered for adoption to Southern Water. As a result, they will also need to agree the proposals.
2. The top of bank of the proposed pond needs to be kept at least 3 metres away from the top of the bank of the ditch to allow maintenance access and comply with our land drainage byelaws.
3. The path (assumed to be unfenced) for plot 17 appears to be within 3m of the top of the bank of the ditch. Since this encroaches into 3m working width for machinery required for ditch clearance, please confirm that the path will be designed to accept loadings from suitable machinery and that it will not be fenced off. Add notes to drawing.
4. The ground slope adjacent to plot 17 will prevent safe access for maintenance – please rectify.
5. Southern Water requires the pond to be located at least 5m away from the proposed pumping station. It is unclear as to whether this has been achieved.
6. All discharges into permeable pavement structures will need to be connected via a diffuser unit and a catchpit manhole incorporated upstream of each unit. Any bends to incorporate a manhole. Construction details to be provided for the diffuser units and catchpit manholes. Specify pipe invert levels at the diffuser unit and the manholes. Specify pipe diameters on all connections.
7. All outlets from the permeable paving to be discharged via a diffuser unit. Specify pipe outlet invert levels and ensure all pipes have a diameter.
8. Manhole adjacent plot 38 – invert level missing.
9. Permeable pavement between plot 36 and 37 – outlet arrangement is not clear.
10. Link pipes between permeable pavements – specify diffuser units at each end, pipe inverts and diameters.
11. Make sure all RWP's are shown clearly ie. thicken lines.
12. Where the existing public foul sewer gravity sewer and rising main passes beneath the permeable pavements, are you proposing the service corridor construction arrangement – If so, detail how water can flow between the separate sub bases.
13. Has the level of the existing rising main been established to confirm that there is no clash with pipe length S5 to S6?
14. Add note 'All pipes to be connected at soffit to soffit level'.
15. Provide manhole construction details for all manholes in the highway.
16. Provide pipe bedding details ie. class S and class Z.
17. Provide road gully construction details.
18. Specify pipe materials.
19. Gullies near S5 should connect directly into S5.
20. Manhole downstream of permeable paving adjacent plot 12 – specify invert level.
21. All connections not made to manholes to connect via oblique 45 degree junctions – add note.
22. ACO drain adjacent plot 38 – indicate purpose/connectivity.
23. ACO drain near hydrobrake chamber – show connectivity.
24. Specify base level/s of pond and provide fully detailed construction detail. This needs to be designed against floatation, so supporting calculations will be required. Indicate top of bank levels.
25. Provide ACO drain construction detail.
26. Permeable paving immediately north of pond – the inlet from the block of flats appears to be discharging into the pavement below sub base level.
27. Headwall SFA10A incorrectly specified for the pond headwall – this should be SFA10C and SFA10A specified for the discharge to the ditch.
28. Pond headwall – specify a 'cranked' grille to suite a 450mm pipe. Banks in vicinity of headwall to be profiled to suit wing walls – add note.

29. Ditch headwall – add note 'No part of structure to encroach into the ditch profile'.
30. Specify manhole S8A as a catchpit and provide construction detail.
31. Headwalls – add note 'To be bedded as per manufacturers recommendations'.
32. Provide manufacturers technical data sheet for the hydrobrake.
33. Specify invert level on drawing where discharging to the ditch. We need to achieve as much freeboard as possible between ditch bed and pipe invert – at present this is insufficient. Please investigate lifting the pipe invert and/or regrading the ditch.
34. Add note 'ditch to be cleaned out to the satisfaction of ADC engineer'.
35. It has been previously noted that ditch bed/silt levels immediately east of the site are high compared to the ditch bed levels adjacent your site, which could therefore impact your design. Please investigate/advise and provide levels, etc.
36. Incoming 150mm pipe into the hydrobrake chamber has been made invert to invert as opposed soffit to soffit. Please alter plan and hydrobrake manhole detail.
37. Hydrobrake chamber – add suitable notes regarding benching construction. Pipes to protrude 100mm into chamber from inside face of rings.
38. Please confirm whether you are ground raising any parts of the site, as retaining walls, slopes and gravel boards have been noted on the eastern boundary. No run off should be shed onto the adjoining land to the east. Whilst some measures have been put in place, there appears to be some areas needing looking at, for example the rear of plots 12 and 13. Provide a construction detail of the ACO drain/retaining wall arrangement south east of plot 13.
39. Microdrainage calculations;
 - a) The catchment area needs to include the pond area ie. to allow for rain falling onto that area.
 - b) Provide a full pipe network plan to include the numbered porous car park structures.
 - c) Numerous orifice controls are detailed. Please specify their locations on the plans and provide suitable construction details.
40. Maintenance manual;
 - a) A maintenance regime for permeable pavements needs to be included.
 - b) Pond side slopes notes as 1 in 4 as opposed to 1 in 3.
 - c) Maintenance of boundary ditch to be included.
 - d) Grille maintenance to be included.
 - e) Updated/approved drawings (full set) will ultimately need to be attached to the manual.

Look forward to receiving revised details, etc.

Regards

Paul Cann
Principal Engineer (Drainage)

Paul Cann | Principal Engineer (Drainage), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37819 | External: +44 (0) 1903 737819 | Fax: +44 (0) 1903 716019 | E-mail: Paul.Cann@arun.gov.uk

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From: Michael Eastham <Michael.Eastham@arun.gov.uk>
Sent: 03 February 2020 14:55

To: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Paul Cann <Paul.Cann@arun.gov.uk>

Subject: FW: BN/85/19/DOC - The Lillies

Importance: High

Hi Sarah and Paul,

Please find attached 2 revised drawings for BN/85/19/DOC at the Lillies, Yapton Road, Barnham.

I look forward to receiving your consultation response.

Thanks,

Michael

Michael Eastham | Principal Planning Officer, Strategic Development, Directorate of Place, Arun District Council | Location: First Floor,
Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37772 | External: +44 (0) 1903 737772 | E-mail: Michael.eastham@arun.gov.uk



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From: Zsuzsa Chynoweth [REDACTED]

Sent: 24 January 2020 16:52

To: Michael Eastham <Michael.Eastham@arun.gov.uk>

Cc: [REDACTED] Chris Privett <[REDACTED]> Matthew Kail
[REDACTED]

Subject: RE: Lillies

Dear Michael

Further to my email earlier, please see attached our revised drainage proposals.

All driveways have been shown as permeable paving, as requested during discussions with the local authority.

Please advise if this will be acceptable for the conditions contained within this application to be discharged.

Kind regards



Zsuzsa Chynoweth BA (Hons) Arch
Senior Architectural Technician



Building 300, The Grange, Romsey Road, Michelmersh,
Romsey, Hampshire, SO51 0AE
Registered in England Number 2211652

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From: Michael Eastham [<mailto:Michael.Eastham@arun.gov.uk>]
Sent: 24 January 2020 15:16
To: Zsuzsa Chynoweth
Cc: [REDACTED] Chris Privett; Matthew Kail
Subject: RE: Lillies

Dear Zsuzsa,

Is there any news on the submission of the drainage plans/scheme for the Lillies, Yapton Road, Barnham?

Kind regards,

Michael

[Michael Eastham](#) | Principal Planning Officer, Strategic Development, Directorate of Place, [Arun District Council](#) | Location: First Floor,
Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37772 | External: +44 (0) 1903 737772 | E-mail: Michael.eastham@arun.gov.uk





From: Zsuzsa Chynoweth [REDACTED]
Sent: 20 January 2020 17:30
To: Michael Eastham <Michael.Eastham@arun.gov.uk>
Cc: [REDACTED]; Chris Privett <[REDACTED]>; Matthew Kail
<[REDACTED]>
Subject: FW: Lillies, responses required for the followign emails

Dear Michael

I hope you are well.

We recently received the three emails attached from you, for which our client has summarised the responses below. The two pdf attachments are part of the response also.

- Condition 22 CMP - 80DB (Lower exposure action value) is an LAmax measurement to show the most obtrusive facet of the noise, this will be taken 1 to 3 metres from source (not directly at the source).
- Construction Access and Site Compound plan included within the attached Traffic Management Plan
- Vehicle routing included within the attached Traffic Management Plan, further information regarding limitations/restrictions of/on routes throughout the course of construction for specific vehicles now included within revised CMP attached.
- Out-of-hours contact details now included within revised CMP attached including confirmation it will be displayed prominently on any site hoarding viewable to the general public.
- Details of all relevant people managing the site and their contact details now included within the plan

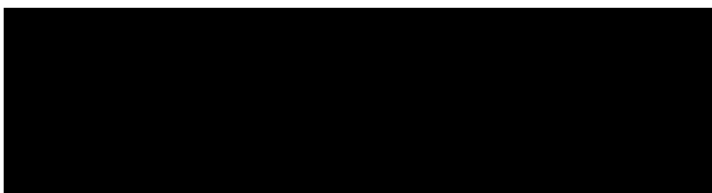
With regards to the drainage, we are just finalising the scheme and will forward over by the end of the week.

I trust that the attached will be satisfactory , however please let me know should you require anything further.

Kind regards



Zsuzsa Chynoweth BA (Hons) Arch
Senior Architectural Technician



Building 300, The Grange, Romsey Road, Michelmersh,
Romsey, Hampshire, SO51 0AE
Registered in England Number 2211652

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