

## Engineers Comments Regarding Surface Water Drainage

|                                 |                                                                                                               |                            |             |
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| <b>Application Reference:</b>   | WA/79/26/DOC                                                                                                  | <b>Reviewer Reference:</b> | ADC/EXT5/AF |
| <b>Planning Officer:</b>        | Amber Willard                                                                                                 | <b>Date of Review:</b>     | 07/09/2026  |
| <b>Site Name:</b>               | Stoneybrook Farm Eastergate Lane Walberton BN18 0BA                                                           |                            |             |
| <b>Application Description:</b> | Approval of details reserved by condition under WA/108/24/PL relating to condition 3- Surface Water Drainage. |                            |             |
| <b>Assessment Number:</b>       | 1                                                                                                             |                            |             |

| Policy and Guidance Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
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| <p>Arun District Council Surface Water Drainage Guidance (including design checklists) - <a href="https://www.arun.gov.uk/surfacewater">https://www.arun.gov.uk/surfacewater</a></p> <p>Land Drainage Consent – <a href="https://www.westsussex.gov.uk/fire-emergencies-and-crime/dealing-with-extreme-weather/flooding/flood-risk-management/ordinary-watercourse-land-drainage-consent/">https://www.westsussex.gov.uk/fire-emergencies-and-crime/dealing-with-extreme-weather/flooding/flood-risk-management/ordinary-watercourse-land-drainage-consent/</a></p> <p>Arun District Council Land Drainage Byelaws - <a href="https://www.arun.gov.uk/byelaws/">https://www.arun.gov.uk/byelaws/</a></p> <p>Arun District Council surface water pre-commencement conditions - <a href="https://www.arun.gov.uk/planning-pre-commencement-conditions">https://www.arun.gov.uk/planning-pre-commencement-conditions</a></p> <p>The National Standards for SuDS - <a href="https://www.gov.uk/government/publications/national-standards-for-sustainable-drainage-systems/national-standards-for-sustainable-drainage-systems-suds">https://www.gov.uk/government/publications/national-standards-for-sustainable-drainage-systems/national-standards-for-sustainable-drainage-systems-suds</a></p> <p>The SuDs Manual [C753] by CIRIA</p> |  |

|                 |                                                  |
|-----------------|--------------------------------------------------|
| <b>Response</b> | Condition 3: <b>Further information required</b> |
|-----------------|--------------------------------------------------|

| References                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <p>The NPPF states that when determining any planning application, local planning authorities should ensure that flood risk is not increased elsewhere (Chapter 18). The PPG guides local planning authorities to refer to 'Sustainable drainage systems: non-statutory technical standards' [NsTS] and detailed industry guidance like The SuDS Manual [C753] by CIRIA to guide decisions about the design, maintenance, and operation of sustainable drainage systems for non-major development.</p> <p>The NsTS have been superseded by the National Standards for Sustainable Drainage Systems [NSfS] from 19 June 2025.</p> <p>This consultation has been primarily informed by the NSfS and The SuDS Manual.</p> |

## Summary

This summary highlights if critical items aligning with each of the standards have been met. Critical items are highlighted in **bold** on our surface water drainage design checklist (linked above). A failure to address these will result in an **objection** to any application to discharge a surface water drainage design condition.

If any of these items are inadequately addressed by the submission, then their correction may result in a redesign of the surface water drainage scheme. A redesign is likely to have site wide implications such as the potential for storage structures to increase in volume or plan area, or the provision of other important infrastructure to satisfy the NSfS set out below.

All relevant items on the checklist are expected to be met before an application to discharge an application to discharge a SuDS design condition is supported.

Our response and requirements are elaborated upon or condensed within an attached comment tracker where necessary. If a comment tracker is provided a designer is encouraged to refer to this and respond to comments to aid further review. Please request a .docx version of this document to by email to [land.drainage@arun.gov.uk](mailto:land.drainage@arun.gov.uk) if needed.

| Standard                                                                          | Assessment   | Response                   |
|-----------------------------------------------------------------------------------|--------------|----------------------------|
| 1. Runoff destination                                                             | Compliant    | <b>No objection</b>        |
| 2. Interception drainage                                                          | Compliant    | <b>No objection</b>        |
| 3. Extreme Rainfall and Flooding                                                  | Insufficient | <b>Further Information</b> |
| 4. Water Quality                                                                  | Compliant    | <b>No objection</b>        |
| 5. Amenity                                                                        | N/A          |                            |
| 6. Biodiversity                                                                   | N/A          |                            |
| 7. Construction, operation, maintenance, decommissioning and structural integrity | Insufficient | <b>Further Information</b> |

## Reviewed Plans

The following documents have been submitted and reviewed to inform this consultation with reference to surface water drainage:

- Proposed Surface Water Drainage Watercourse and Pond Sections. Drg no. A001-013/300 Rev D
- Drainage Byelaws letter. 27.08.2026
- Land Drainage Byelaws Consent 27.08.2026
- SuDS Report 24.08.2026
- Planning Statement. August 2026
- Drainage comments

## Plans/Documents to be listed as approved

The following plans/documents should be listed as approved in respect to condition 3:

- N/A

### Condition wording

Condition 3 is worded as follows:

*"Prior to the commencement of development, full details of the proposed surface water drainage scheme must be submitted and approved in writing by the Local Planning Authority. The full details submitted for approval shall include:*

- I. winter groundwater monitoring,*
- II. winter infiltration testing strictly in accordance with BRE DG 365 or similar approved,*
- III. details of the proposed method and location of surface water disposal, in accordance with the SuDS hierarchy,*
- IV. impermeable area plan,*
- V. calculations modelling the surface water drainage network for the following storm events:*
  - a. 100% Annual Exceedance Probability*
  - b. 10% AEP + climate change allowance*
  - c. 3.3% AEP + climate change allowance*
  - d. 1% AEP + climate change allowance*

*All storm events must include an allowance for urban creep and surcharged outfalls where appropriate,*

- VI. detailed drainage plans conforming to local planning authority guidance, VII. specifications for all surface water drainage components and associated infrastructure or flow control mechanisms,*
- VIII. any relevant permissions relating to the discharge location, works to watercourses or adoption of the SuDS scheme.*

*The scheme shall then be constructed as per the approved plans prior to occupation of the building. The surface water drainage scheme shall remain for the lifetime of the development unless agreed in writing by the Local Planning Authority.*

*Reason: To ensure that the proposed development has a satisfactory means of disposing of surface water in accordance with Arun Local Plan policies W DM1 and W DM3. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works"*

### Consultation comments to the planning officer

1. Please see the attached comment tracker for detailed comments relating to the submission.
2. We note the previous comments and responses on WA/28/26/DOC which are replicated for continuity.

### Drainage Impact on Other Planning Matters

This application has been assessed with regards to surface water drainage design only, together with land drainage aspects if deemed necessary.

Other planning matters occasionally effect the surface water drainage design. If plans relating to other matters have been assessed for their impact on the proposed drainage, then it must not be assumed that they have been assessed for any other purpose. The planning officer is advised to check for conflicts with any existing approved plans and to consult any relevant consultees as appropriate.

It has been identified that the following consultees may have comments about the plans that have been submitted and reviewed for this application:

- ☐ Landscaping officer (proposed trees and landscaping)
- ☐ Tree officer (existing trees)
- ☐ Environment Agency (main rivers and fluvial/tidal flood risk, River Arun internal drainage board, groundwater source protection zones)
- ☐ Southern Water (foul drainage and surface water disposal to public sewer network/groundwater source protection zones)
- ☐ Portsmouth Water (groundwater source protection zones)
- ☐ Lead local flood authority (all other sources of flooding and ordinary watercourses)
- ☐ Other: Specify .....
- ☒ None

|                                                                                                       |                                                                                             |
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| Application Reference: WA/79/26/DOC<br>Site Name: Stoneybrook Farm Eastergate Lane Walberton BN18 0BA | Initial Issue Date: 07/09/2026<br>Issue Date: 07/09/2026<br>Reviewer Reference: ADC/EXT5/AF |
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### Summary and Recommendation:

Condition : **Further information required**

*Please note: Any DOC application should only have a maximum of two consultation responses. If this is the second response for an open application and there are still comments outstanding, then please object to the application.*

|                            | ADC Drainage Comments<br>WA/28/26/DOC                                                                                                                                                                                                                             | ADC Drainage Comments<br>WA/28/26/DOC | Designer Response | ADC Drainage Comments |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|-----------------------|--|
| Date:                      | 30/04/2026                                                                                                                                                                                                                                                        | 22/06/2026                            | 23/08/2026        | 07/09/2026            |  |
| <b>Condition Number: 3</b> |                                                                                                                                                                                                                                                                   |                                       |                   |                       |  |
| Comment Number             |                                                                                                                                                                                                                                                                   |                                       |                   |                       |  |
| 1.                         | Designs, sizing and details for the proposed rainwater harvesting should be provided.<br><br><b>Designer Response<br/>03/06/2026</b><br>1,000ltr water tank located to the rear of the building to pick up rainwater for reuse as part of the business operation. | Comment closed.                       |                   |                       |  |
| 2.                         | Greenfield runoff calculations should be provided for the drained area.<br><br><b>Designer Response<br/>03/06/2026</b><br>Greenfield calculations attached. For the whole                                                                                         | Comment closed.                       |                   |                       |  |

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|    | drained site an area of 0.201ha has been used which generates 0.5l/s.                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                        |                                                                                                                                                                                                           |                 |  |
| 3. | <p>The use of the pond for interception drainage is not suitable as the top water level would be at the overflow level during winter.</p> <p>Designer Response<br/>03/06/2026<br/>The groundwater level is recorded at 10.333m, the outfall level is 10.383m allowing for 50mm of be retained in the pond and allowed to infiltrate through the sides. The interception volume will be 12.5m<sup>3</sup>.</p> | The attenuation feature would need to act as a basin it be acceptable for interception drainage. Calculations should be provide for the area served.                                                                                   | Swales added to provide 90m2 vegetated area within new swales.                                                                                                                                            | Comment closed. |  |
| 4. | <p>The full ground investigation report should be provided.</p> <p>Designer Response<br/>03/06/2026<br/>Groundwater site investigation has been carried out to determine the viability for infiltration as the primary discharge of surface water. The investigation found groundwater to be within 1m of the existing ground level and therefore compliance with the design standards could not be</p>       | Since the system has been categorised as not suitable for infiltration, the basin should be lined as it extended 2m into existing ground levels. There will need to be sufficient ballast above the liner to resist floatation forces. | Whilst it was intended to allow natural infiltration during periods where no groundwater was present (summer), to comply a liner has been added to the pond to fully seal and not allow any infiltration. | Comment closed. |  |

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|    | <p>achieved, making infiltration not viable. BGS mapping shows Head Deposits-Gravel, Sand, Silt and Clay over a bedrock of London Clay. Plans attached. The immediate neighbouring site during their site investigation correlated with the BGS and groundwater monitoring confirming groundwater within 1m of existing ground level.</p> |                                                                                            |                                     |                        |  |
| 5. | <p>Anti-floatation calculations should be provided for the basin.</p> <p>Designer Response<br/>03/06/2026<br/>The base of the basin will remain as dug material to allow the ground water to rise into the pond during the winter time and allow some infiltration during periods where no groundwater is present</p>                     | <p>This is not acceptable as groundwater may reduce available volume for infiltration.</p> | <p>Flotation calculations added</p> | <p>Comment closed.</p> |  |
| 6. | <p>Construction details should be provided for the basin construction and liner.</p> <p>Designer Response<br/>03/06/2026<br/>Details have been provided</p>                                                                                                                                                                               | <p>The detail will need to be revised, see comments above.</p>                             | <p>Liner added</p>                  | <p>Comment closed.</p> |  |

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| 7. | <p>Measures to mitigate blockage of the flow control device should be incorporated at the basin headwall and flow control chamber.</p> <p>Designer Response<br/>03/06/2026<br/>Gabion cage is proposed in front of the outlet headwall to provide a filter process and remove debris that could cause blockages. Construction detail provided.</p>                                                                                                                                 | <p>The gabion inlet provides suitable blockage reduction from the open feature. Details should be provided for the flow control chamber to include blockage protection.</p> | <p>Contraflow chamber specified with upstream filter guard</p> | <p>The solution is acceptable, however, this is not reflected on Construction Details drawing A001-013/302.</p> |  |
| 8. | <p>The diversion of the existing system into the basin/pond increases the drained area beyond the development boundary. The drained areas should be clarified on plan. The area of the basin should also be included in the drained areas</p> <p>Designer Response<br/>03/06/2026<br/>Catchment plan has been provided.<br/>The total drained area is 2,904m<sup>2</sup>, however for the greenfield rate only the pavement and buildings has been used at 2,137m<sup>2</sup>.</p> | <p>Comment closed.</p>                                                                                                                                                      |                                                                |                                                                                                                 |  |

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| 9.  | <p>Due to the low discharge rate, the half-drain time for the basin during the 3.3% AEP + CC should be demonstrated to be less than 24 hours.</p> <p><b>Designer Response</b><br/>03/06/2026<br/>The half drain time for 3.3% AEP +CC is calculated at 1140 minutes</p>                                                     | <p>This is acceptable, comment closed.</p>                                                                                                                                                                                           |                                                                                                                                                                                   |                                                                                                                         |  |
| 10. | <p>The surcharged outfall should be clarified in the calculations.</p> <p><b>Designer Response</b><br/>03/06/2026<br/>A surcharged model has been provided with the groundwater set at 10.333m</p>                                                                                                                          | <p>A surcharged level should be specified at the outfall for the duration of the design storm. This should can be based upon the national surface water flood modelling or a robust estimate of water levels in the watercourse.</p> | <p>EA flood mapping shows the watercourse not flooding and therefore the worst case will be lowest embankment level for a surcharged level. Surcharged level of 10.41m taken.</p> | <p>The surcharged outlet is not shown in the drainage model outputs, please include a surcharge at the outlet node.</p> |  |
| 11. | <p>Can the flooding from existing the chamber shown in the calculations be alleviated o contained within the design?</p> <p><b>Designer Response</b><br/>03/06/2026<br/>The existing flooding will be contained within the design. It will be allowed to infiltrate, flow over ground to the permeable parking area and</p> | <p>The program used for the calculations cannot model this, however, the volumes are small and there is spare capacity in the system. Comment closed.</p>                                                                            |                                                                                                                                                                                   |                                                                                                                         |  |

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|     | collected at this point into the new system.                                                                                                                                                                                                                                                                                           |                                                                                                                    |                        |                                                                             |  |
| 12. | <p>Evidence of Ordinary Watercourse Consent from the LLFA or Land Drainage Bylaw Consent from ADC will be required. Website link here: <a href="#">Land drainage byelaws for landowners   Arun District Council</a></p> <p>Designer Response<br/>03/06/2026<br/>Application with Arun District Council under reference 257-752-519</p> | Approval awaited.                                                                                                  | With Arun for approval | Consent noted, comment closed.                                              |  |
| 13. | <p>A Maintenance Plan should be provided.</p> <p>Designer Response<br/>03/06/2026<br/>A Maintenance Plan is attached</p>                                                                                                                                                                                                               | The maintenance plan should include the updated drainage plans and details once revised to address comments above. | Plan attached          | The plan may need to be updated with revised plans in response to comments. |  |

If a designer would like a .docx version of this document to aid administration of responses, please request this by email to [land.drainage@arun.gov.uk](mailto:land.drainage@arun.gov.uk).

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**From:** Paul Cann <Paul.Cann@arun.gov.uk>  
**Sent:** 17 September 2026 12:53  
**To:** Planning.Responses <Planning.Responses@arun.gov.uk>  
**Cc:** Land Drainage <Land.Drainage@arun.gov.uk>; Amber Willard <Amber.Willard@arun.gov.uk>  
**Subject:** RE: Planning Consultation on: WA/79/26/DOC

Please find enclosed our consultants response, further information required.

Regards

**Paul Cann**  
**Principal Drainage Engineer,** Coastal Engineers and Flood Prevention

**T:** 01903 737819  
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**Our priorities...**



Improving the wellbeing of Arun



Delivering the right homes in the right places



Supporting our environment to support us



Fulfilling Arun's economic potential



**From:** Planning.Responses <[Planning.Responses@arun.gov.uk](mailto:Planning.Responses@arun.gov.uk)>  
**Sent:** 01 September 2026 10:34  
**To:** Land Drainage <[Land.Drainage@arun.gov.uk](mailto:Land.Drainage@arun.gov.uk)>  
**Subject:** Planning Consultation on: WA/79/26/DOC

To: **Engineers (Drainage)**

**NOTIFICATION FROM ARUN DISTRICT COUNCIL**

**TOWN AND COUNTRY PLANNING ACT 1990**

**Application No:** WA/79/26/DOC  
**Registered:** 28th August 2026  
**Site Address:** Stoneybrook Farm Eastergate Lane Walberton BN18 0BA

**Description of Works:** Approval of details reserved by condition under WA/108/24/PL relating to condition 3- 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 and view the documents](#) The website is updated once a day in the evening, so you may need to wait until the day after this notification to view the documents.

[Click here to view the original application and decision notice](#)

Should you wish to make any comments click on the link and click into ?Enter Comment? or if this is not possible email your response to [planning.responses@arun.gov.uk](mailto:planning.responses@arun.gov.uk) by **15th September 2026**.

**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

Amber Willard

Planning Case Officer- Arun District Council

Telephone: 01903 737942

Email: [amber.willard@arun.gov.uk](mailto:amber.willard@arun.gov.uk)