

Hannah Riddle

From: Simon Davis
Sent: 09 November 2021 17:39
To: Nicola Spencer; Hannah Riddle
Subject: SUB PLAN REQUEST - BN/134/21/DOC
Attachments: 18158 Addendum Letter Report Rev2_ISSUE.pdf; 108.5009.505.E.pdf; 108.5009.503.G.pdf; 108.5009.502.F.pdf; 108.5009.504.F.pdf; 108.5009.501.D.pdf; 108.5009.751.B.pdf; 108.5009.705.G.pdf; 108.5009.706.F.pdf; 108.5009.704.A.pdf; 108.5009.703.A.pdf; 108.5009.552.B.pdf; 108.5009.506.F.pdf; 108.5009 - PERMEABLE PAVING 1in100.pdf; Response to Drainage Comments.pdf; 108.5009.703.A.pdf

Follow Up Flag: Follow up
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18156 Addendum Letter	
501.D	
502.F	
503.G	
504.F	
505.E	
751.B	
706.F	
703.A	
705.G	
704.A	
552.B	
506.F	
5009 Permeable Paving	
Response to Drainage Comments	

Simon

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From: Grace Palmer [REDACTED]
Sent: 01 November 2021 16:35
To: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: RE: Planning Consultation on: BN/134/21/DOC

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Good afternoon Simon, hope you're well.

The engineers have jumped on this round of comments and responded/updated drawings with the typos or missing information to hopefully finalise queries now. See response in blue below for ease and attached updated drawings.

1. A complete application needs to be made. i.e. all details submitted under this application. It is apparent that the application is missing a number of calculations. Groundwater monitoring results, and infiltration testing results should also be submitted. Detailed drainage layout sheet 1 of 6 is missing. The Soils report including soakage testing and GW monitoring is attached for ease, this has previously been provided to the council.
2. A full review of details has not been completed due to the lack of information, further comments may be provided once all information is supplied.
3. Calculation result printouts do not include impermeable area. Please provide this on printouts so that all relevant inputs and outputs can be reviewed.

All calculation result printouts now include impermeable areas.

4. The soakaway for plot 4 has inconsistent dimensions between calculations and layouts. Please correct.

Plot 4 calcs amended.

5. Please confirm if slope of sub-bases have been examined and if all areas are within maximum slope limits. A further review of calculations will be completed once these are supplied. For example, please confirm if proposals for permeable paving sub-base near to plots 14-19 are okay without check dams/ baffles, there is 500mm difference in formation level over not that large a distance.

The steepest gradient of the permeable paving is 1:30 (3.3%), this area measures around 175m² and is between plots 23 and 8-10. Chapter 20 (Pervious Pavements) of the Ciria SuDS manual refers to ICPI (2011) on page 402; it states the ICPI (2011) suggests that where slopes are 3% or greater designers should consider terracing or internal check dams. The area mentioned previously is the only area where this needs to be considered, as all other gradients across the site are flatter. MicroDrainage Calculations were completed for this area of permeable paving and no flooding occurs without the use of check dams.

6. It appears there is a typo with the formation level near to plots 1 and 42. A formation level of 17.69 is stated, which is greater than the finish level.

Level amended to 16.690 – drawing 703 updated accordingly

7. Capping layer below type 3 on the permeable paving must state “no fines”. Please also clearly label the base geotextile.

Permeable paving specification updated to state ‘no fines’ on capping layer – drawings 703, 704, 705, 706, 751, 552 and drawings 501-506 updated accordingly

8. The soakaway construction detail needs to be improved. As crate depth varies, the detail should not state total 400mm thick, and should instead state that the depth varies and reference the plans that depth is detailed on. Minimum cover depth should be stated.

Note on soakaway construction detail amended to state: *AQUACELL CORE-R 1000X500X400 UNITS, EXACT DEPTH AND AREA OF SOAKAWAYS VARY, SEE DRAWING 108.5009.501 FOR SOAKAWAY LAYOUT DETAILS.*
Drawing 551 updated accordingly

9. Please provide a construction detail drawing of granular soakaways.

A granular soakaway detail is shown on drawing 551.F

10. Portsmouth water and the environment agency should be consulted (SD - done)

I hope this information finds you well but please do not hesitate to ask should you have any more queries so we can action asap.

Kind regards

Grace Palmer
Technical Manager

Hampshire Homes Group

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