

Please upload the below and attached to the above application: Further information (drainage).

Thank you



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Good morning Maria & Paul,

Paul, our Civil Engineer has now had time to look over your comments and I'm pleased to attach revised documents to address these concerns with the following comments, direct from our Civil Engineer:

- 1) A copy of winter infiltration testing and groundwater monitoring information is attached at the rear of the report.
- 2) The extent of the proposed new paving is shown on the drawings which is reflected in the areas of the infiltration blanket within the supporting calculations. The drainage strategy plan, attached again for quick reference, shows no surface treatment changes to the Northern end of the site. The blue shaded area is the area subject to resurfacing.
- 3) This is a design preference and not a planning related requirement which is beyond the remit of a consultee at Planning Stage. We are the designer and can choose between either the use of perforated pipe or diffuser units as both are acceptable designs. We have consulted with our Client and in this instance they are happy to use a

diffuser unit. There is no obligation to place diffuser units 5m from buildings in any known guidance, again this is considered a design preference. Building regulation requirements specifically relates to soakaways due to highly focus areas of water discharging directly into the ground around building foundations, which is not the case for diffuser units proposed which disperse surface water into a wider area of voided subbase.

- 4) This is again a design preference. We have added silt traps upstream of diffusers in this instance, however diffuser units are only receiving roof water and any silt / sediment. Any loose sediments or fines are likely to be very low and unlikely to be significant enough to restrict performance of the diffuser units however we have determined in this case they are of benefit.
- 5) Added where not shown – The foul water pipe connecting proposed FW01 and FW02 will not be known until construction and the minimum fall has been stated.
- 6) Added.
- 7) Added where required.
- 8) This is a design preference. We have not shown this as there no practical reason or benefit in doing so. The request would require laying asphalt directly onto the permeable membrane during the construction process.
- 9) The subbase thickness is dependent on the CBR values and not on the subbase thickness as demonstrated within the supporting calculations and information shown on drawings. Subbase thickness is based on an assumed CBR of 2-5% requiring minimum 350mm of subbase, storage requirements for the infiltration system for a critical 1 in 100 plus 40% climate change storm is a 240mm depth of subbase.
- 10) Additional levels added and subbase thickness updated to reflect the assumed CBR.

Kind regards,

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