

From: Laura Gibbons
Sent: 06 June 2018 17:35
To: Anita Gardner
Subject: RE: R/85/18/DOC - Rustington Convalescent Home

Hi Anita,

I have reviewed the information, and provided comments in red below.

My original comments were:

1. Please re-do infiltration tests as a matter of urgency ensuring the base of test pits as at the proposed invert level of infiltration structures. The test results provided are for a pit dug 3m deep (below the maximum recorded ground water level of 2.26m below ground level) and into the chalk sub strata. Borehole logs show that the proposed base of infiltration structures will be in clay so we expect a far lower infiltration rate will be found, closer to the 5.6×10^{-6} stated in the 2015 flood risk assessment and drainage strategy supplied. Why has a different test been used? Was this original 2015 test giving 5.6×10^{-6} m/s not conducted in the winter? Revised details supplied. Okay.
2. The infiltration coefficient used in calcs for the sides of infiltration structures is wrong by a factor of 10. This will need revising anyway following new infiltration test results. Okay.
3. We will require microdrainage calculations for the proposed porous paving. Soakaway 1 needs to be increased in depth to accommodate the 1 in 100 year +40% climate change event. Modelled depths are 0.43m, the soakaway is 0.4m deep. Please revise.
4. A catchment area plan will need to be provided, showing areas that drain into each proposed drainage structure. Microdrainage print outs should also detail areas used. Okay.
5. Please provide a drainage strategy plan drawing detailing:
 - o Permeable paving areas, with formation and finish levels. Okay.
 - o Soakaways, labelled with; areas, invert levels, invert levels of incoming pipes. Okay.
 - o Pipes, labelled with invert levels, slopes and diameters. Okay.
 - o Catchpits/ manholes/ inspection chambers clearly labelled with cover types and dimensions specified. Please provide details of catchpits and cover types.
 - o Exceedance flow routes. Okay.

6. Construction detail drawings of all drainage structures, including; manholes, catchpits, inspection chambers, soakaways, permeable paving. Please provide catchpit details.

Regards,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

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From: Anita Gardner
Sent: 06 June 2018 14:38
To: Laura Gibbons
Subject: FW: R/85/18/DOC - Rustington Convalescent Home

Laura,
Please find attached additional comments. Are these details sufficient to now discharge the condition?
Thanks
Anita

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Chloe Tucker [REDACTED]
Sent: 05 June 2018 17:25
To: Anita Gardner
Cc: Charles Mills
Subject: R/85/18/DOC - Rustington Convalescent Home

Anita,

Please find attached a Revised Surface Water Drainage Strategy to address the comments received from Arun District Council Engineering Services.

I trust that this now addresses the comments raised, but please do contact me if anything further is required.

Kind regards,

Chloé Tucker
Planning



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