

From: Laura Gibbons
Sent: 20 June 2018 14:01
To: Anita Gardner
Subject: RE: R/85/18/DOC - Rustington Convalescent Home

Hi Anita,

The applicant hasn't exactly provided what I requested in terms of additional calculations, however after some further interrogation of the results and some additional calculations by me I am happy to recommend the condition is now discharged based on Revision G of the drainage strategy.

Thanks,

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

[Laura Gibbons](#) | Engineer (Drainage & Coastal), Engineering Services, [Arun District Council](#) | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF

Internal: 37818 | External: +44 (0) 1903 737818 | Fax: +44 (0) 1903 716018 | E-mail: laura.gibbons@arun.gov.uk

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From: Anita Gardner
Sent: 19 June 2018 18:05
To: Laura Gibbons
Subject: FW: R/85/18/DOC - Rustington Convalescent Home

Hi Laura

Please can you advise if this version of the strategy addresses your concerns?

Thanks

Anita

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

Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

Visit Arun's web site at www.arun.gov.uk



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From: Chloe Tucker [REDACTED]
Sent: 19 June 2018 17:56
To: Anita Gardner
Cc: Charles Mills
Subject: RE: R/85/18/DOC - Rustington Convalescent Home

Dear Anita,

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

Kind regards,

Chloé Tucker
Planning

[REDACTED]

Daniel Watney LLP
165 Fleet Street
London EC4A 2DW

[REDACTED]

www.danielwatney.co.uk

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From: Anita Gardner [<mailto:Anita.Gardner@arun.gov.uk>]
Sent: 13 June 2018 09:50
To: Chloe Tucker [REDACTED]
Subject: FW: R/85/18/DOC - Rustington Convalescent Home

Dear Chloe,

Please see the comments below from our engineer. Can you let me have the additional information as soon as possible?

Regards

Anita Gardner

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

Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

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From: Laura Gibbons

Sent: 13 June 2018 09:48

To: Anita Gardner

Subject: RE: R/85/18/DOC - Rustington Convalescent Home

Hi Anita,

There is one catchpit missing on the drawing supplied (on the eastern soakaway of soakaway 1). Please can the drawing be revised to include this.

For the catchment of concern, please can details of the maximum depths for each pipe and manhole be provided (i.e. provide alternative printout from MicroDrainage).

Thanks,

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

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Internal: 37818 | External: +44 (0) 1903 737818 | Fax: +44 (0) 1903 716018 | E-mail: laura.gibbons@arun.gov.uk

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From: Anita Gardner

Sent: 11 June 2018 10:00

To: Laura Gibbons

Subject: FW: R/85/18/DOC - Rustington Convalescent Home

Hi Laura,

Please can you advise if this additional information addresses your concerns?

Thanks

Anita

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

Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

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From: Chloe Tucker [REDACTED]
Sent: 11 June 2018 09:33
To: Anita Gardner
Cc: Charles Mills
Subject: RE: R/85/18/DOC - Rustington Convalescent Home

Dear Anita,

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

Our Engineer has provided the following comments:

Soakaway 1 for the Carpenters House, on page 6 of the attached shows that the cellular storage structure is a closed structure, i.e above 400mm deep the area of the structure is 0.0m sq. On page 10 of the attached report, the summary of results for the 1 in 100 year return period (+ 40% CC) shows a max depth of water of 438mm but that the status of the structure is ok. This is to indicate the depth of water in surrounding manholes and inspection chambers and not that the storage structure is failing.

Catchpits have been noted on the site plan on page 17 of the attached report, noted as IC (CP) and details added to the Drainage Construction Details drawing on page 18 of the attached report.

Catchpit details have been added to the Drainage Construction Details drawing on page 18 of the attached report.

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

Kind regards,

Chloé Tucker
Planning



Daniel Watney LLP
165 Fleet Street
London EC4A 2DW



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From: Anita Gardner [<mailto:Anita.Gardner@arun.gov.uk>]
Sent: 06 June 2018 17:37

To: Chloe Tucker [REDACTED]
Subject: FW: R/85/18/DOC - Rustington Convalescent Home

Chloe,
Please find comments below from our drainage engineer. I would appreciate receipt of this additional information within the next 2 weeks.
Regards
Anita

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

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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)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,

Maltrovers Road, Littlehampton, BN17 5LF
Internal: 37818 | External: +44 (0) 1903 737818 | Fax: +44 (0) 1903 716018 | E-mail: laura.gibbons@arun.gov.uk
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From:
Anita
Gardn

er

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, Maltrovers Road, Littlehampton, BN17 5LF

Internal: 37529 | External: +44 (0) 1903 737529 | E-mail: anita.gardner@arun.gov.uk

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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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London EC4A 2DW

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