

[REDACTED]

From: Laura Gibbons
Sent: 26 April 2019 14:18
To: 'Aarti O'Leary'
Cc: Martin O'Connor; Andrew Quinn; Jawsy Jabbar; Stuart Corbey; Serena Page
Subject: RE: Worthing Road, Littlehampton - Planning application Ref: LU/59/19/PL LLFA comments

Aarti,

Comments are as follows:

1. I would not accept a discharge of 5l/s this is far in excess of greenfield runoff rates. 2.5l/s is perfectly achievable as a discharge rate with appropriate measures provided to reduce the risk of blockage.
2. Development proposals must take account of climate change, as stated within our Local Plan Policy, NPPF and WSCC policy on surface water drainage.
3. We would accept infiltration testing at this time of year if only used to rule in or out infiltration, i.e. if it is found that infiltration does not work currently, it certainly isn't going to work in the winter and design can be progressed. However, if it is found that infiltration is feasible winter monitoring and testing will be required.
- 4-7 I will await these details.

Kind Regards,

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

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From: Aarti O'Leary [REDACTED]
Sent: 26 April 2019 11:48
To: Laura Gibbons

Cc: Martin O'Connor; Andrew Quinn; Jawsy Jabbar; Stuart Corbey; Serena Page
Subject: RE: Worthing Road, Littlehampton - Planning application Ref: LU/59/19/PL LLFA comments

Dear Laura

Further to the email below, we would be grateful if you could advise whether there is any wriggle room on the discharge rate, based on the details set out below.

With regard to item no. 2 below, we note that Arun Local Plan Policy W DM2 states that Flood Risk Assessment *"must take into account contingency allowances, taking climate change into account as set out in Flood Risk Assessments: climate change allowances section of the NPPG."*

Please could you confirm that (subject to the appropriate runoff rate being agreed) if the necessary amendments to the calculations are made to allow for climate change, and the additional information associated with items 4-7 below is provided, the need for infiltration testing and the pre-commencement condition would be negated.

Once we receive your confirmation on these matters, we will be in a position to prepare and submit the additional information.

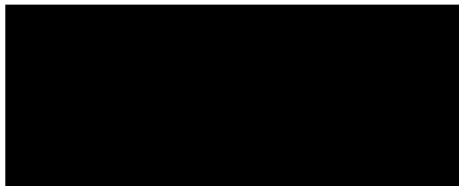
We look forward to hearing from you.

Kind Regards

Aarti O'Leary
BSc (Hons), MA (Merit), MRTPI
Associate



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London
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From: Andrew Quinn [REDACTED]
Sent: 25 April 2019 14:34
To: laura.gibbons@arun.gov.uk; Jawsy Jabbar
Cc: Aarti O'Leary; Martin O'Connor; Ryan Lilley; Rad Kaminski; Ade Ogunsanya; Serena Page
Subject: Worthing Road, Littlehampton - Planning application Ref: LU/59/19/PL LLFA comments

Afternoon Laura,

I have been forwarded your comments from 18th of April 2019 in relation to surface water drainage at the site 'Land at Watermead business Park, Worthing Road, Littlehampton, BN17 6LS'. **Planning application Ref: LU/59/19/PL.**

I have read through your comments and I provide the following comments/responses below:

1. The Proposals are to attenuate water and discharge at a rate of 5l/s, yet greenfield runoff rates are 0.3l/s. we would require that the proposed discharge rates are reduced to 2.5l/s, this rate is achievable without increasing the risk of blockage to unacceptable level. A hydrobrake with a minimum sump depth of 300mm should be provided. With a proposed discharge rate of 2.5l/s this will result in a reduction of the orifice of the hydrobrake, given the close proximity of landscape areas, there is an increased risk of blockages to the control device, hence the proposal of 5l/s. we would kindly ask you to reconsider given the information we have provided.

2. Attenuation volume has been calculated for the 30 year event only. We require that the 30 year plus 40% climate change event is attenuated and it must also be demonstrated that water remains on site for the 1 in 100 year plus 40% climate change event. Can you kindly provide the policy or legislation that requires attenuation volume for the 1 in 30 year +CC event.
3. The strategy states that infiltration will be investigated, this is in line with the hierarchy for sustainable drainage. Ground water monitoring and infiltration testing are required within the winter months. Given the current time of year, would the LLFA accept investigations at this time of year rather than waiting for winter.
4. The proposed attenuation tank appears to clash with the existing surface water drainage network. Clarification must be provided as to how the two will interact. Invert levels and cover levels of the proposed drainage must be provided. Invert levels can be provided and will be added to drawing to prove no clash.
5. Will the proposed drainage channel have a sump? Yes there will be a sump within the outlet boxes as indicated on the plan.
6. Construction Detail drawings need to be provided. To be provided
7. Our checklist should be complete and all relevant details submitted as outlined within this. To be completed and returned.

Once you have had time to read through my responses and reply accordingly, I will then start to action the above. Thank you.

Regards,

Andrew Quinn
Civil Engineer

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**We are moved, as of 11 February 2019, Pinnacle's London office address will be:
Sixth Floor, 100 New Oxford Street, London WC1A 1HB**

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