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Peter Barnett
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06 March 2023
Ref: SL/Let/P1834i

Dear Peter,

**Ref: Submission of additional information in relation to (reference: AWDM/1053/22) Conditions 4, 5 and 6 pursuant to Full Planning Permission AWDM/1478/21 at the Marquis Of Granby, West Street, Sompting, West Sussex, BN15 0AP.**

Following submission of the Drainage Design Information (reference: AWDM/1053/22), additional information was as requested by the Adur SUD's Team in order to discharge the conditions relating to surface water drainage.

Please find enclosed the following documents which have been produced by Waller Gray to discharge Conditions 4, 5 and 6:

- *WG1406 - 201 - C3 - Drainage Layout*
- *WG1406 - 251 - P2 - Drainage Details (Sheet 2 of 2)*
- *WG1406 - Marquis, Sompting- Drainage Design Addendum (February 2023)*

Within the response, the Adur SUD's Engineer requested that a Winter Infiltration Test should be conducted before the Planning Condition for surface water drainage are approved for discharge.

When the original submission of information was made to discharge the surface water drainage conditions it was within the Summer months (August 2022). Therefore, in order to undertake the additional testing we had to wait until Winter 2022/23 to conduct these.

The additional testing has now been conducted and a BRE365 infiltration test was carried out in January 2023. Ground water monitoring was conducted the previous Winter between November 2022 and February 2023 (which can be found in the submitted report).

Following the attempted completion of the BRE365 test by the Soil Investigation company, they have recommended that due to the groundwater ingress / water level that Soakaways are not viable for the site.

Therefore, based on the Soil Investigation Companies recommendations we have revised the strategy for the surface water scheme for the site to discharge to the Southern Water sewer.

**Managing Director**
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The existing Marquis Public House discharged the majority of its surface water to the sewer via a combined system which served the old building as noted with the original Drainage Design Information Pack. Based on the existing site impermeable areas the existing brownfield surface water run off rates to the sewer would have been:

- 1 in 2yr 19.0l/s
- 1 in 30yr 30.0l/s
- 1 in 100yr 30.02l/s

Therefore, it is proposed to discharge surface water at a restricted rate of 2l/s via a vortex flow control device to the sewer. This would equate to a reduction in surface water discharge rate in all rainfall return periods to the sewer.

The drainage system would utilise a cellular tank to attenuate the surface water, and a hydro brake to restrict the flow rates to a maximum of 2l/s in all rainfall events.

The system has been designed to cater for all storm events up to and including the 1 in 100yr + 40% climate change event. As the site is constructed of only flats no allowance for urban creep has been included. FEH data has been used for rainfall information and Cv values of 1 have been used in accordance with West Sussex guidance.

The updated drainage calculations have been included within the report, with a revised drainage layout and drainage detail drawings. A revised drainage maintenance schedule is also attached within the report which reflects the alterations in the drainage system.

## Conclusion

We trust that this letter and accompanying documentation can discharge the remaining matters of Condition 4, 5 and 6 as listed above, pursuant to Full Planning Permission AWDM/1478/21 at the Marquis Of Granby, West Street, Sompting, West Sussex, BN15 0AP.

We look forward to receiving written confirmation of the discharge of this condition in the very near future.

If you have any further queries or require further information, please contact me on 01903 248777.

Yours sincerely
ECE Planning



Chris Barker MATP MRTPI
**Managing Director**