

P1847 65 UPPER BOGNOR ROAD DRAINAGE DESIGN REPORT.

The below outlines the design principles of the drainage system for the above site.

Infiltration testing was undertaken on the 14th of January 2022, during the testing the ground water table was established at 1.1m below ground level, therefore infiltration is deemed as unfeasible on this site.

There are no watercourses within the vicinity of the site, therefore it is proposed to discharge to the surface water sewer network located on the eastern boundary of the site.

A discharge rate of 2.5l/s has been used; this is deemed as a practicable minimum rate required to reduce the risk of blockage within the flow control device due to orifice diameter.

Roof and hard paved areas will be attenuated within an attenuation tank designed to cater for the 1:100 storm return period with an additional 40% storage to allow for climate change.

There are two sections of gravel car parking, these are designed to mimic natural infiltration into the substrata.

Foul water drainage will be discharged via gravity to the foul water sewer located on the eastern boundary of the site.

A drainage maintenance document will be provided to the site manager.

Kind regards



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