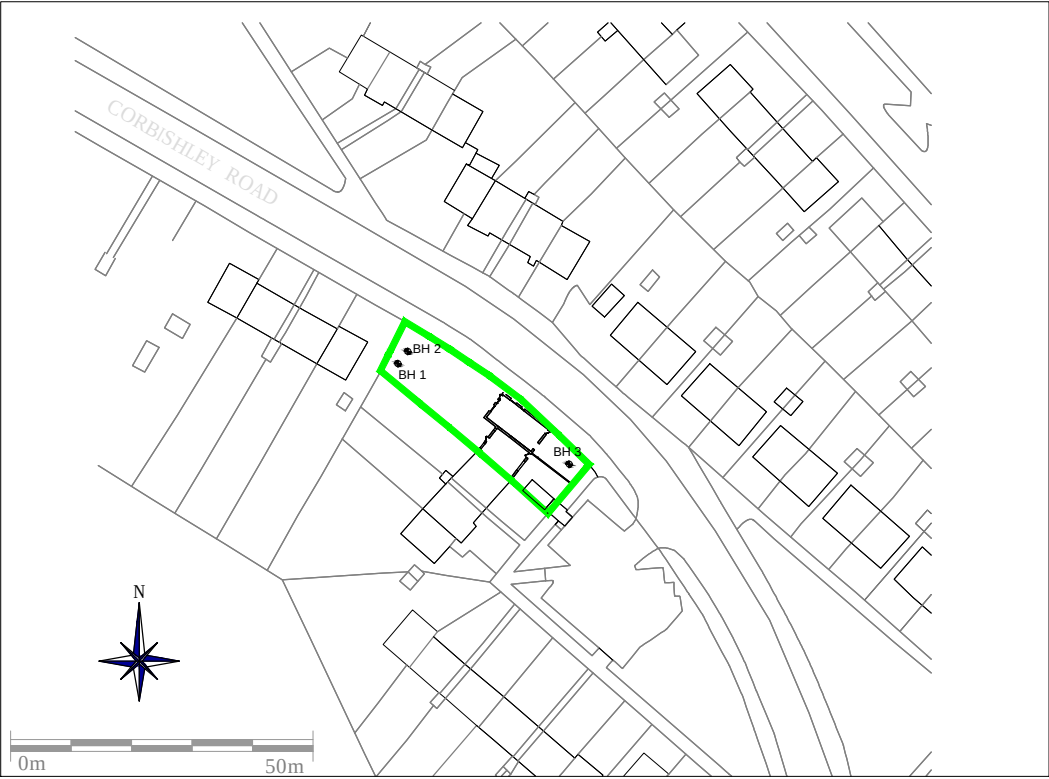


NOTE

This drawing had been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes



Location plan - scale 1:1250

KEY

- Proposed storm drainage
100mm dia at min 1:100
- Proposed silt trap inspection chamber
- Proposed concrete ring soakaway
1.5m Dia. and 2.0m deep to top of base
- Proposed geocellular soakaway
3.0sq.m of 0.8m deep geocells
- Permeable paved parking areas

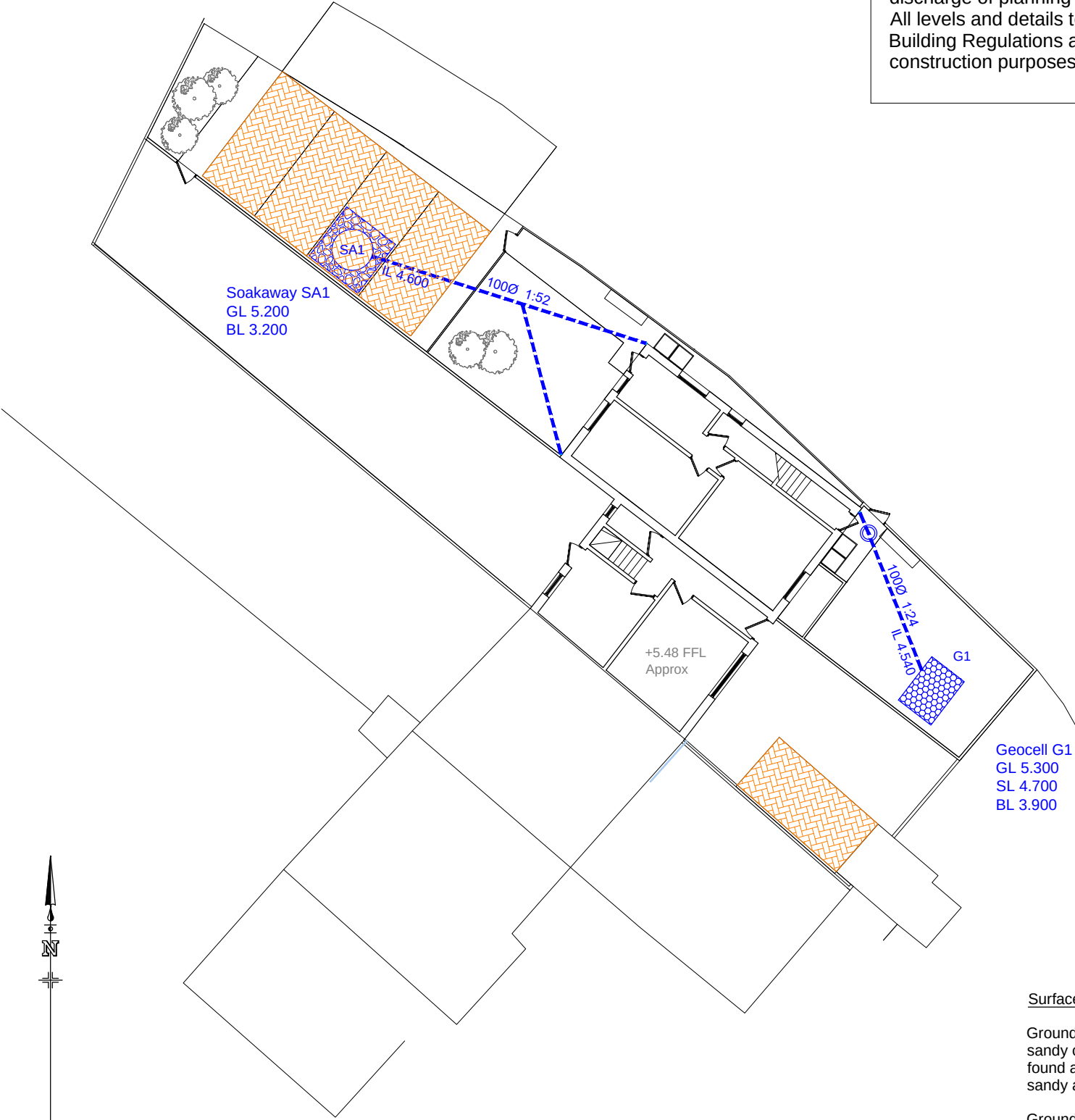
-	Original	RTFC	7.12.17
Rev.	Description	Drm.	Date

Project
36 Corbishley Road Bognor Regis West Sussex

Client
Mrs Patricia Paul
Drawing Title
Surface Water Drainage

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Scale	As shown	At original	A3
Drawing Number	1767/D1.1		Revision -



Site Plan: Scale 1:200

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Alluvium and Brickearth (soft to firm silty sandy clays) over River Terrace Deposits over Upper Chalk. The Alluvium/Brickearth was found at 0.15m below ground level as a fine sandy clay that became much stiffer and more sandy at depth with some grit and flints and small chalk fragments.

Groundwater was found at around 3.0m below ground level. Monitoring on an adjacent site that was carried out from late August 2015 through to the beginning of December 2015, provided a highest level of 2765mm below ground level but higher levels could prevail during wet conditions in this subsoil.

The drainage design is based on percolation tests carried out to BRE365 principles in December 2017. Soil infiltration rates ranging from 5.520×10^{-6} m/s to 3.358×10^{-5} m/s have been obtained and the average rate has been used in the calculations with a Factor of Safety of 3 to allow for wet conditions and exceedence.

A traditional concrete ring soakaway has been designed for the rear roof areas and a geocellular soakaway for the front roof areas. Soakaways are to be constructed in rectangular pits as detailed and are to be located min. 5m from buildings to the edge of the soakaway pit.