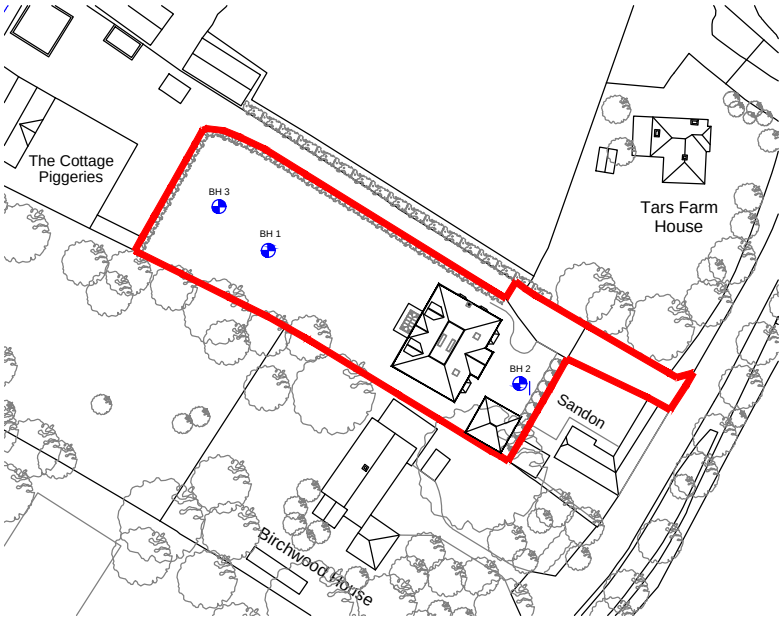
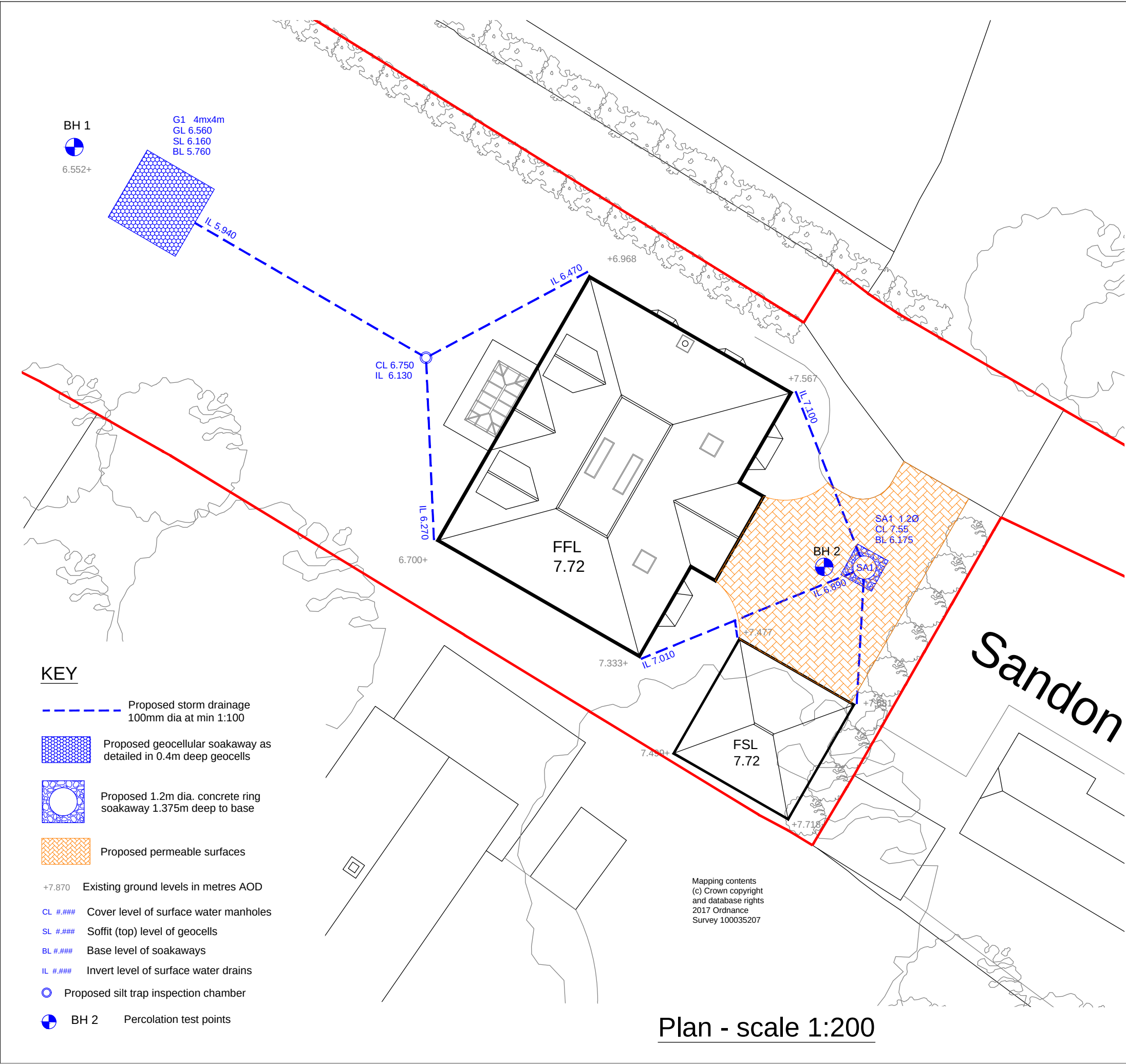




Location Plan - scale 1:1250

Surface Water Drainage Design Notes

The geology here indicates Topsoil over River Terrace and Raised Beach Deposits of silt, sand, clay and gravel over London Clay. The River Terrace Deposits were found at 250 - 300 mm below ground level and comprised silty sandy clays with some medium sub-rounded flint gravel. The London Clay was not encountered in test holes that extended to 1.5m below ground level.

Three groundwater monitoring points/test pits were installed and the highest recorded groundwater levels were 790mm below ground level in early February 2019 and 827mm below ground level in mid-March 2019.

The drainage design is based on several percolation tests carried out to BRE 365 principles in mid-January 2019. Fairly consistent soil infiltration rates were obtained that averaged 1.454x10⁻⁵ m/s.

A new concrete ring soakaway has been designed for the front half of the house and the garage with the rear of the house draining to a geocellular soakaway. The front drive will be permeable concrete block paving which will interact with the concrete ring soakaway to provide soakage at high level above groundwater levels. The design will be suitable to drain the new roof areas without flooding on a 1 in 100 year rainfall event + 40% climate change addition.

See separate Construction Details drawing for details of permeable paving and soakaway structures

-	Original	RTFC	23.3.19
Rev.	Description	Drn.	Date

Project
The Cottage Piggeries Church Lane Barnham

Client
Albert Brazil
Drawing Title
Surface Water Drainage

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Scale	As shown	At original	A3
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Drawing Number	2014/SK2	Revision	-
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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