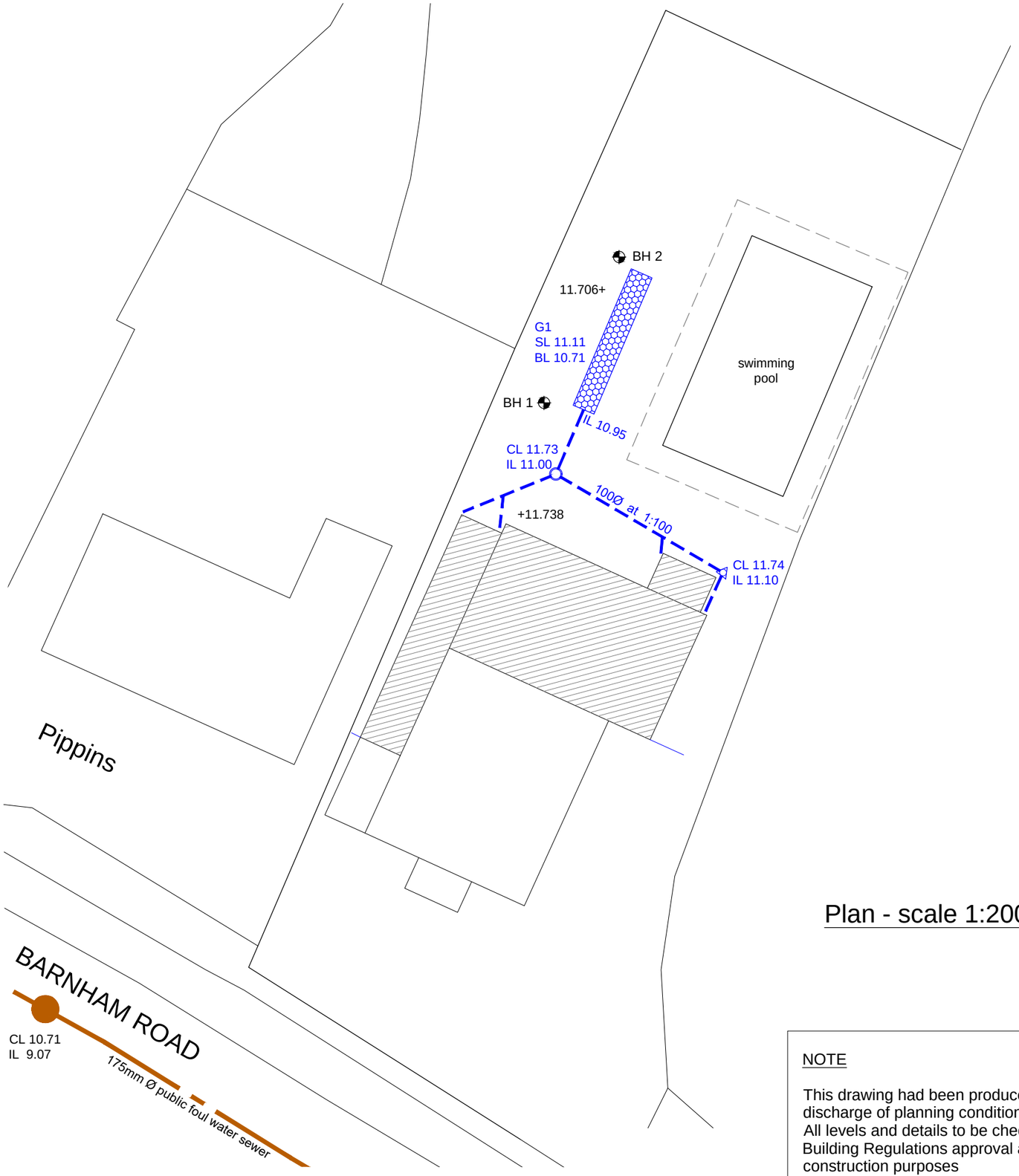

Plan - scale 1:200



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Location plan - scale 1:1250

KEY

- Proposed storm drainage 100mm dia at min 1:100
- 250 dia surface water inspection chamber
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway 5sq.m of 0.4m deep geocells

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

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over London Clay. The River Terrace Deposits were found at 0.25m below ground level and were found to comprise soft to firm silt and silt clays with some gravel and occasional large flints, becoming more gravelly with depth. The London Clay was not encountered in test holes that extended to 1.85m below ground level. Groundwater was not encountered during the investigations in early October 2017 and again in January 2018.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in early October 2017 and mid-January 2018. An average soil infiltration rate of 4.6548×10^{-5} m/s was obtained, to which a factor of safety of 1.5 has been applied.

A shallow geocellular soakaway has been designed, 6.5sq.m in area x 0.4m deep, which will be suitable to drain the new extensions (hatched) to the dwelling without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

Rev.	Description	Drn.	Date
A	Geocell increased to 6.5 sq.m area	RTFC	19.1.18
-	Original	RTFC	11.11.17

Project
The White Cottage
Barnham
West Sussex

Client
Mr and Mrs Tayman

Drawing Title
Surface Water Drainage

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Scale	At original	Drawing Number	Revision
As shown	A3	1765/D1.1	A