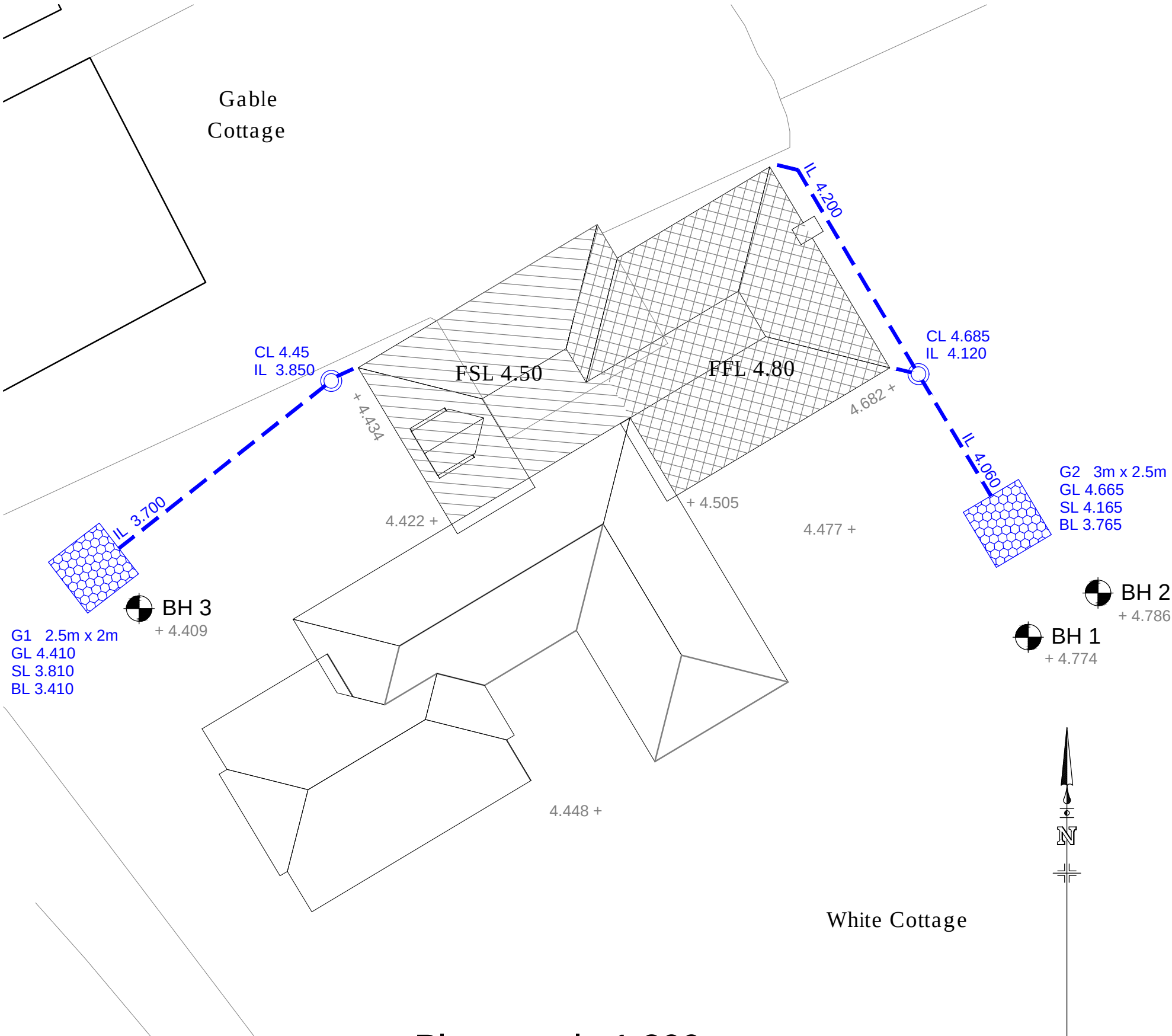
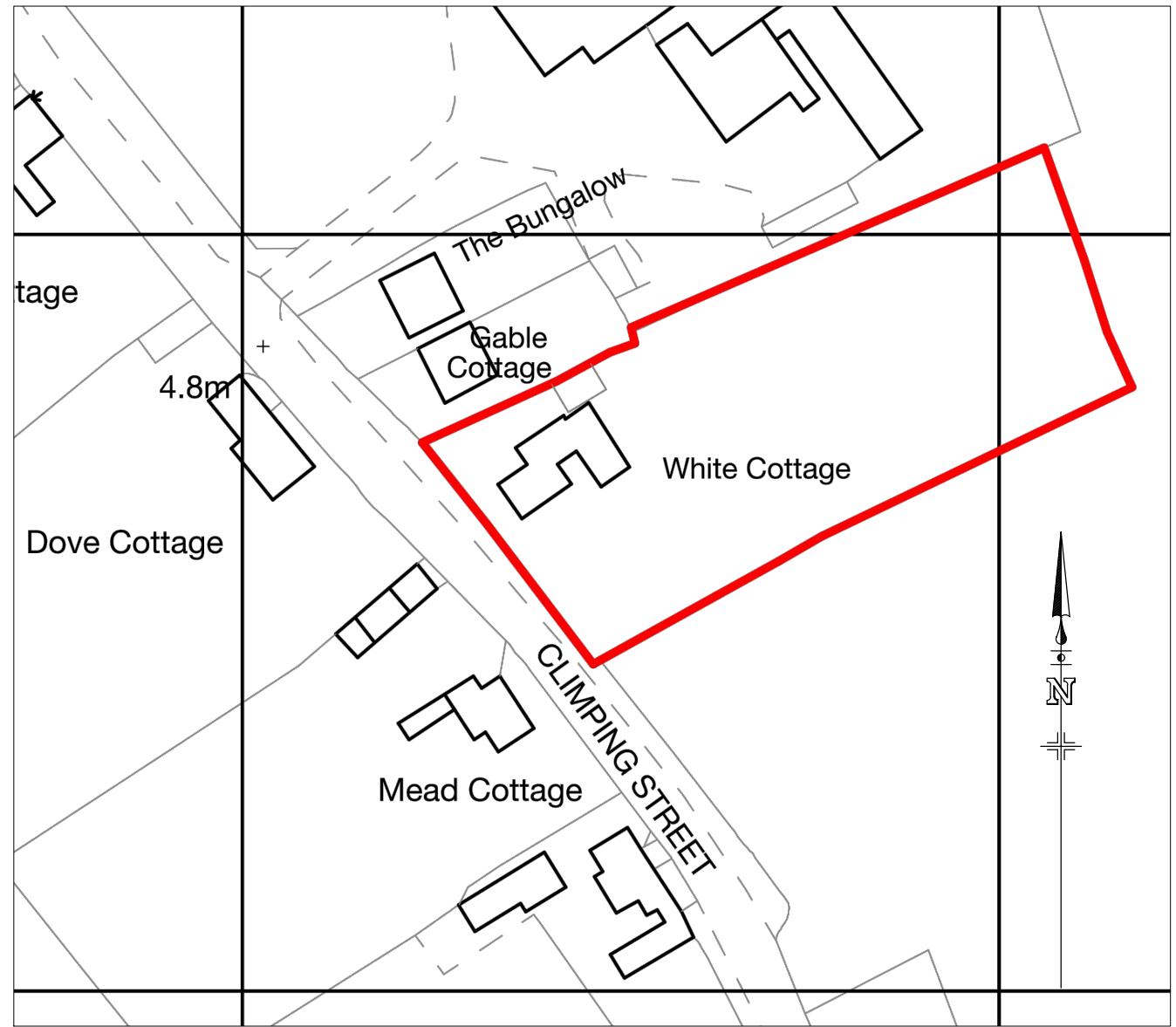




Plan - scale 1:200

KEY

- Proposed storm drainage
100mm Dia at min 1:100
- Proposed silt trap inspection chamber
- Proposed geocellular soakaways ad
detailed in 400mm deep geocells
- Proposed new roof areas to be
drained to new front soakaway
- Proposed new roof areas to be
drained to new rear soakaway
- Existing ground levels in metres AOD
- BH 1 Borehole/test pit locations
- CL ##### Cover level of surface water manholes
- SL ##### Soffit (top) level of geocells
- BL ##### Base level of soakaways
- IL ##### Invert level of surface water drains



Location plan - scale 1:1250

Surface Water Drainage Design Notes

Ground conditions here generally comprise Topsoil over Raised Beach and River Terrace Deposits of soft to firm silty sandy clays with some gravel over Upper Chalk.

In practice we found 200 - 400mm of topsoil over damp sandy clays and silty sands with some sub-rounded flint gravel at depth. The Upper Chalk was not encountered in test holes that extended to 1.625m below ground level.

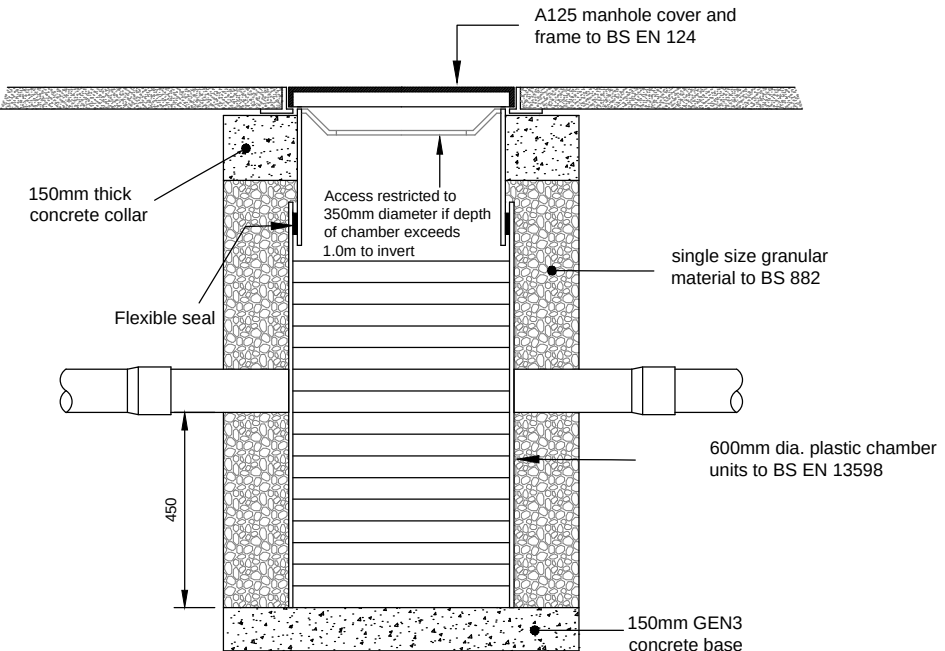
Groundwater encountered at the base of the excavations during the investigations in mid-March 2019 and monitoring was carried out through to the end of March. This showed levels rising to a maximum of 1008mm below ground level in mid-March 2019.

The drainage design is based on 4No. percolation tests carried out to BRE 365 principles in mid to late March 2019. Shallow percolation tests at around 800mm gave an average soil infiltration rate of 4.8045×10^{-5} m/s whilst deeper ones at around 1150mm gave slightly lower results.

Shallow geocellular soakaways have been designed as detailed in 400mm deep units, which will be suitable to drain the new extensions to the dwelling without flooding on a 1 in 100 year rainfall event + 40% climate change addition.

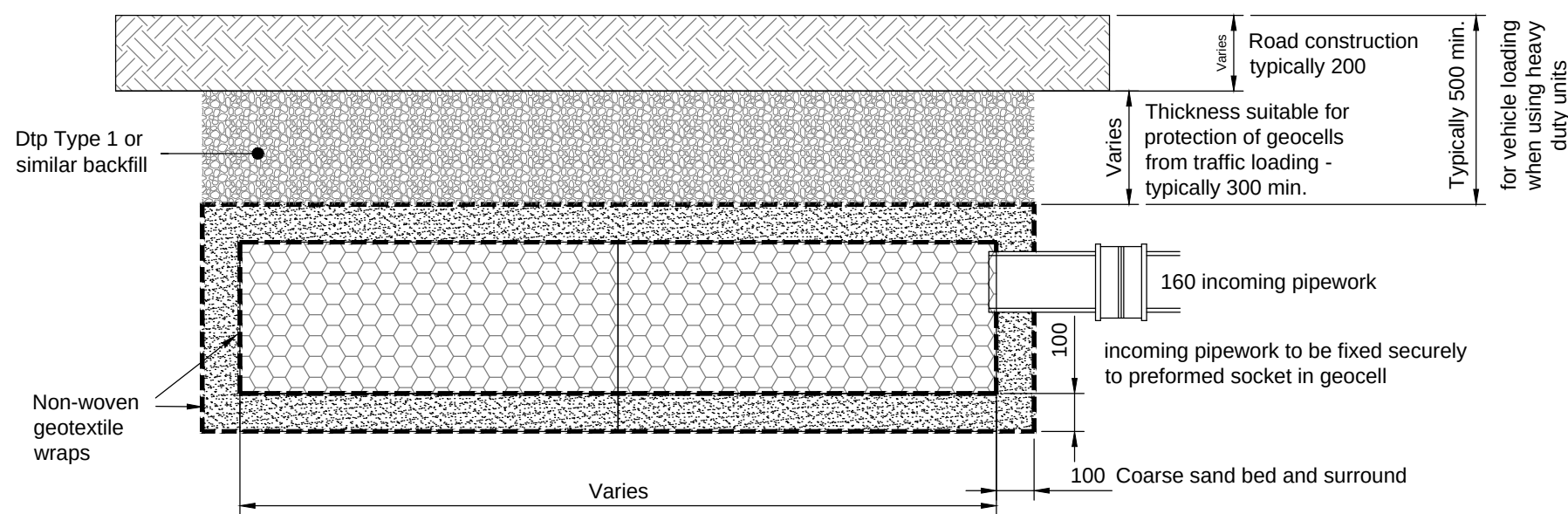
NOTE

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



Typical Silt Trap Inspection Chamber Detail
(for use in soft landscaped areas and footways)

Construction
Details



Typical Geocellular soakaway Unit
(for use in areas subject to traffic loading)

-	Original	RTFC	6.4.19
Rev.	Description	Drn.	Date
Project			
White Cottage Climping Street West Sussex			
Client			
Chris Trisnan			
Drawing Title			
Surface Water Drainage			
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Scale	As shown	At original	A3
Drawing Number	2018/SK2		Revision -