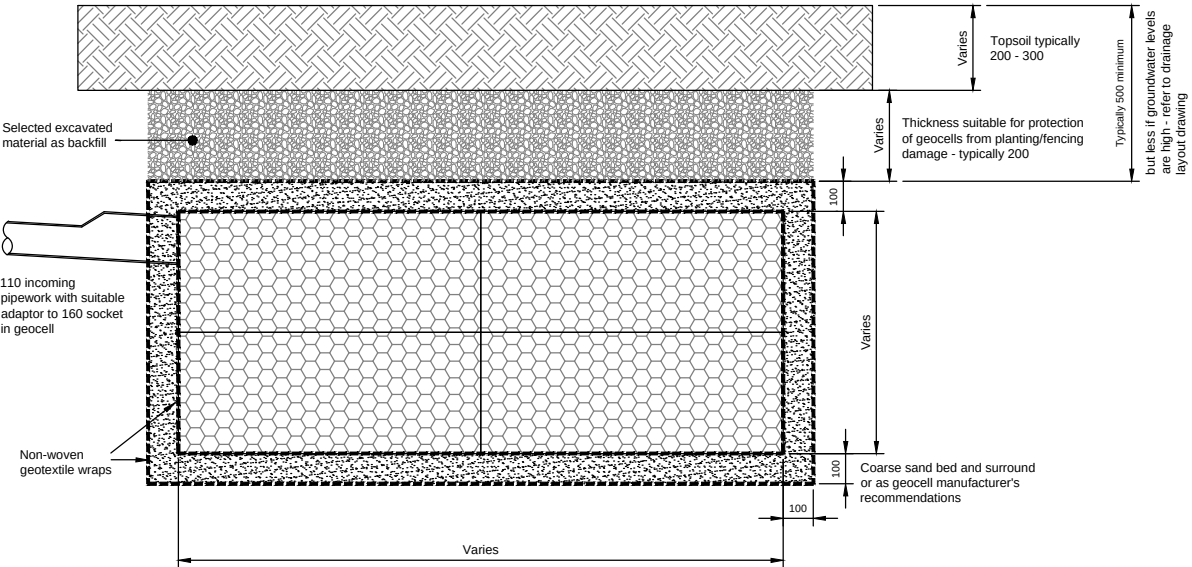
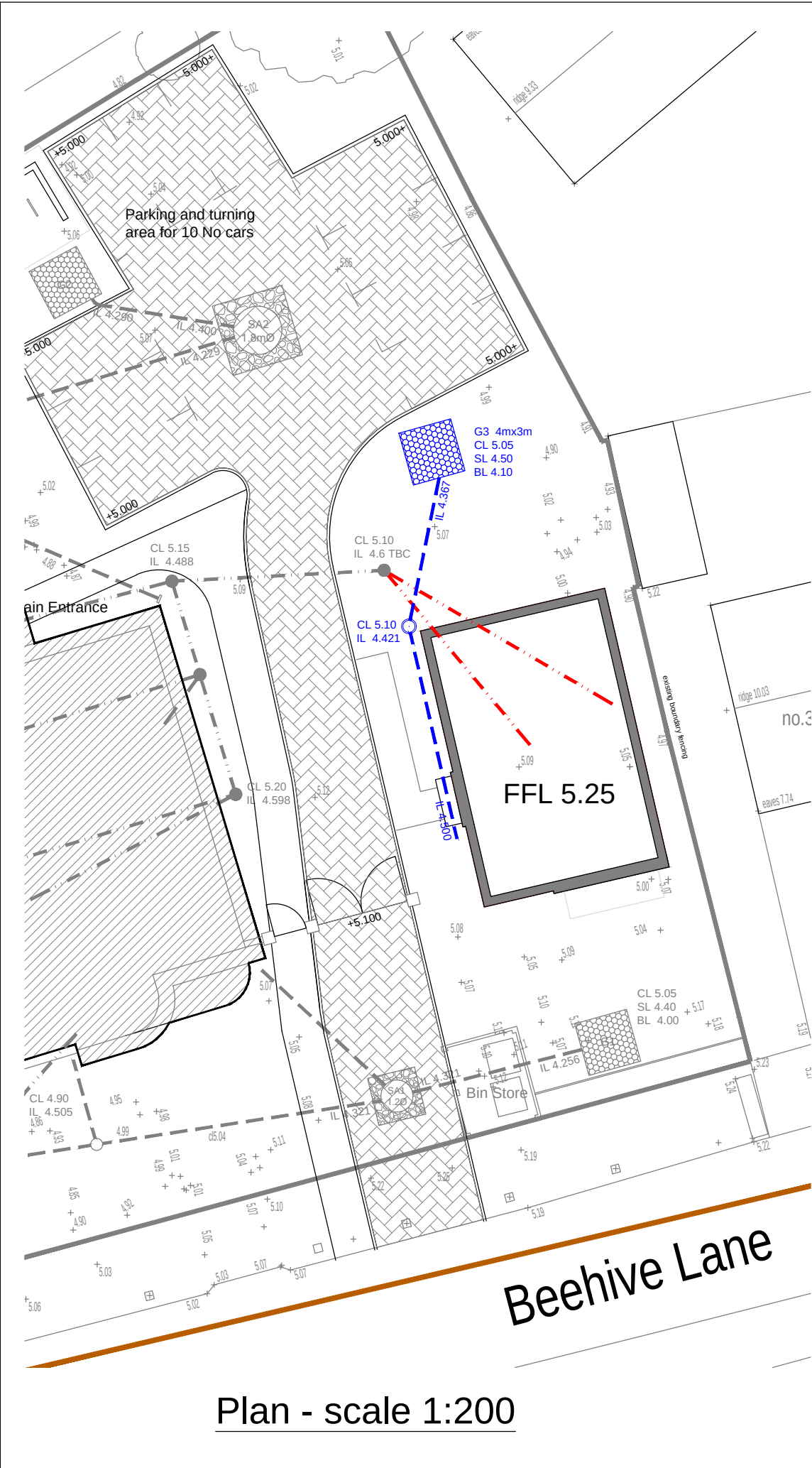
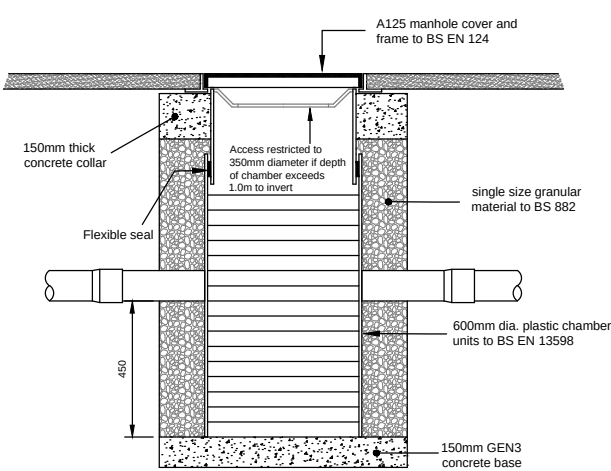


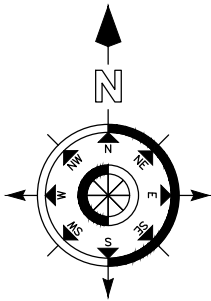


Typical Geocellular soakaway Unit
(for use in soft landscaped areas)



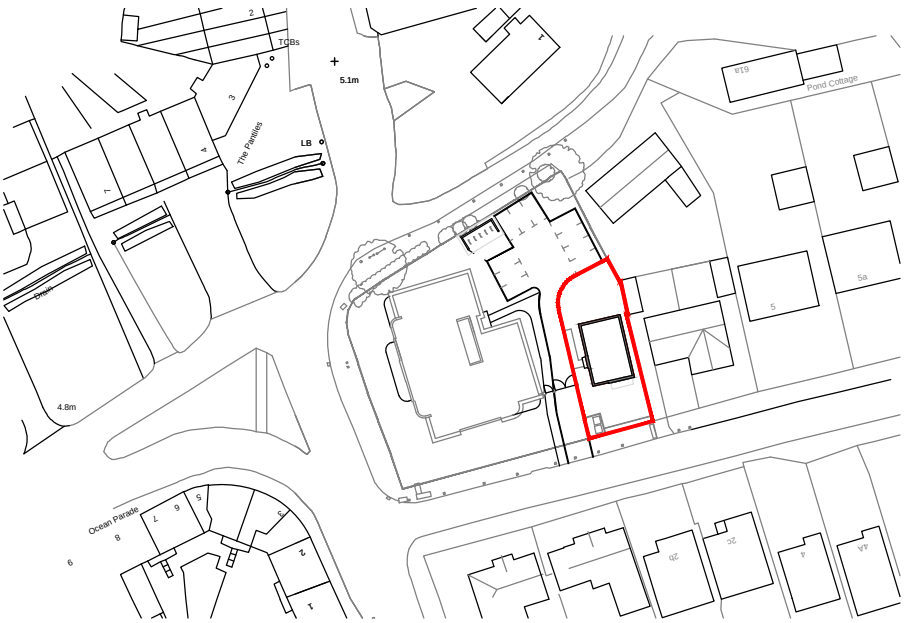
Typical Silt Trap Inspection Chamber Detail
(for use in soft landscaped areas and footways)

Construction Details - scale 1:25



Key

- Proposed foul water drainage
- Proposed surface water drainage
- Proposed 500 dia surface water silt trap IC
- Existing 450 dia foul water IC
- Existing foul water drainage
- Existing surface water drainage
- Existing public foul water sewer
- Proposed geocellular soakaway
- Existing geocellular soakaway
- Existing concrete ring soakaway
- Existing permeable paving
- Existing ground levels in metres AOD



Location Plan - scale 1:1250

Surface Water Drainage Design Notes

Ground conditions here comprise topsoil over silty, sandy clays and clayey sands (Brickearth) over Upper Chalk at depth. The Brickearth was found to extend from around 200mm below ground level to the end of the boreholes at 3.0m when nodules of chalk were becoming more prevalent. The Brickearth contained an increasing presence of flints from 1.5m down.

Groundwater was found at around 1.2m below ground level in two boreholes that were drilled on 9 April 2015, rising to a maximum of 971mm below ground level by the end of the day. Subsequent groundwater monitoring in 4 boreholes from 8 September 2015 through to 24 April 2016 and again from 5 November 2016 through to 9 April 2017 showed levels rising to a maximum level of 954mm below ground level at this site where the soakage is proposed. Deep soakage is thus not considered appropriate for this site.

Percolation tests carried out to BRE365 in the two boreholes gave soil infiltration rates of 2.09×10^{-5} and 2.17×10^{-5} m/s in the upper Brickearth below the topsoil but above the groundwater level. Further tests in early May 2015 in two new test pits gave results of 1.27×10^{-5} and 2.05×10^{-5} m/s. The lowest value has been used in calculations.

A rectangular geocell 4m x 3m has been designed for shallow soakage in 400mm deep units which will be suitable to drain 75sq.m of roof area on a 1 in 100 year storm with 40% addition for climate change.

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

-	Original	RTFC	29.3.19
Rev.	Description	Drn.	Date

Project			
Land at South Point Beehive Lane Ferring			
Client			
Globe Estates (Southern) Ltd			
Drawing Title			
Surface Water Drainage			
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Scale	As shown	At original	A3
Drawing Number	2019/SK2		Revision
			-