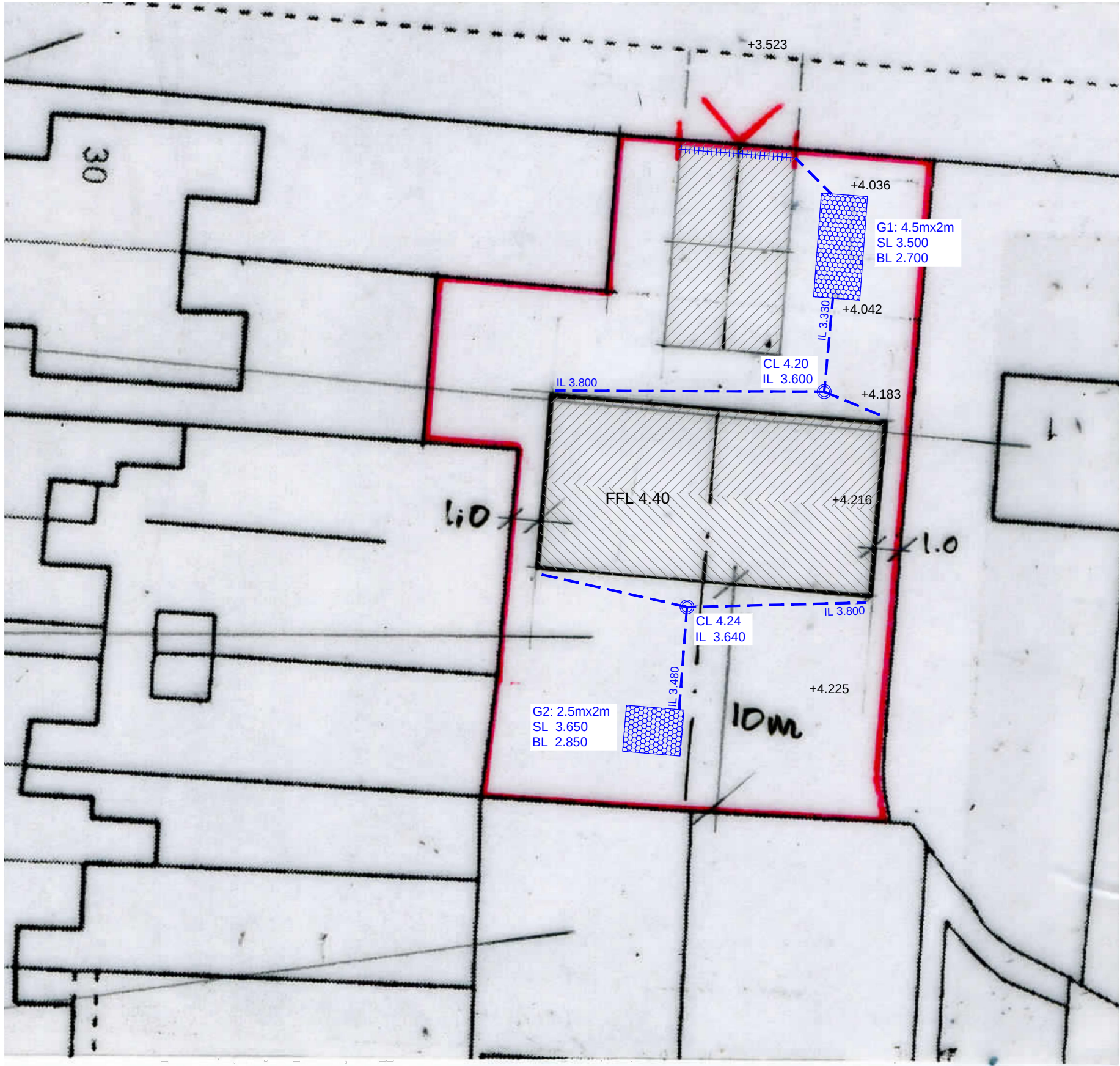
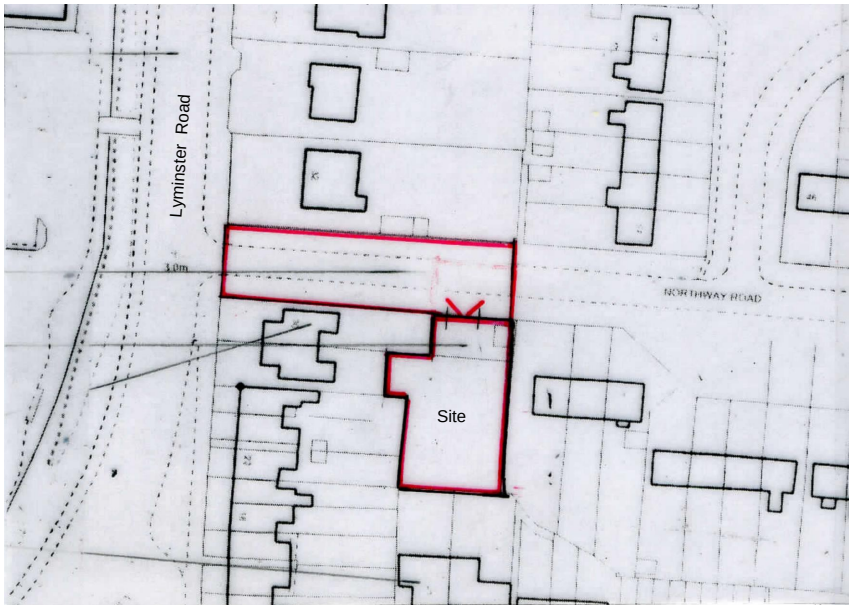




Plan - scale 1:200



Location Plan - scale 1:1250

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits of clay, silt and sand over upper chalk of the New Pit Formation that can be weathered at the upper levels. The River Terrace Deposits were encountered at 350 to 400mm below ground level and comprised dense sandy, silty clays and clayey medium sands that became softer and damper with depth, with some grit, angular gravel and chalk fragments.

Groundwater was initially encountered at around 3m below ground level in late January 2018, rising up to 2.53m during the testing. Subsequent groundwater monitoring has shown groundwater levels fairly steady and rising to a maximum of 2.39m below ground level in early April 2018.

Percolation tests carried out to BRE365 in two separate test holes provided an average soil infiltration rate of 4.99×10^{-3} m/s in late January 2018 and whilst groundwater would not seem to be an issue here, fairly large soakaways will be required to drain this development. We have designed two soakaways, each using 800mm geocellular units with a minimum of 500mm of cover in soft landscaped areas as shown, which will be suitable to drain the development on a rainfall event with a return period of 1 in 100 years with an addition of 40% for climate change

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Proposed channel drain at site boundary
- Proposed silt trap inspection chamber
- Proposed geocellular soakaways as detailed in 0.8m deep geocells
- New roof/parking areas to be drained to geocell G1
- New roof areas to be drained to geocell G2

+7.87 Existing ground levels in meters AOD

- SL .### Soffit (top) level of geocells
- BL .### Base level of geocells
- IL .### Invert level of surface water drains

Rev.	Description	Drn.	Date
-	Original	RTFC	3.5.18

Project	Land at 1a Northway Road Littlehampton
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Client	Jon Boyazis
Drawing Title	Surface Water Drainage

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Drawing Number	1761/SK1	Revision	-	