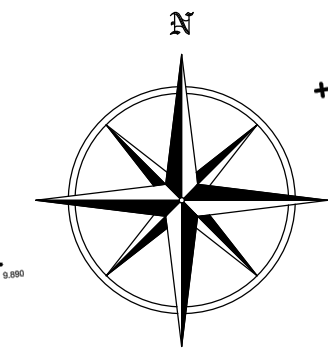
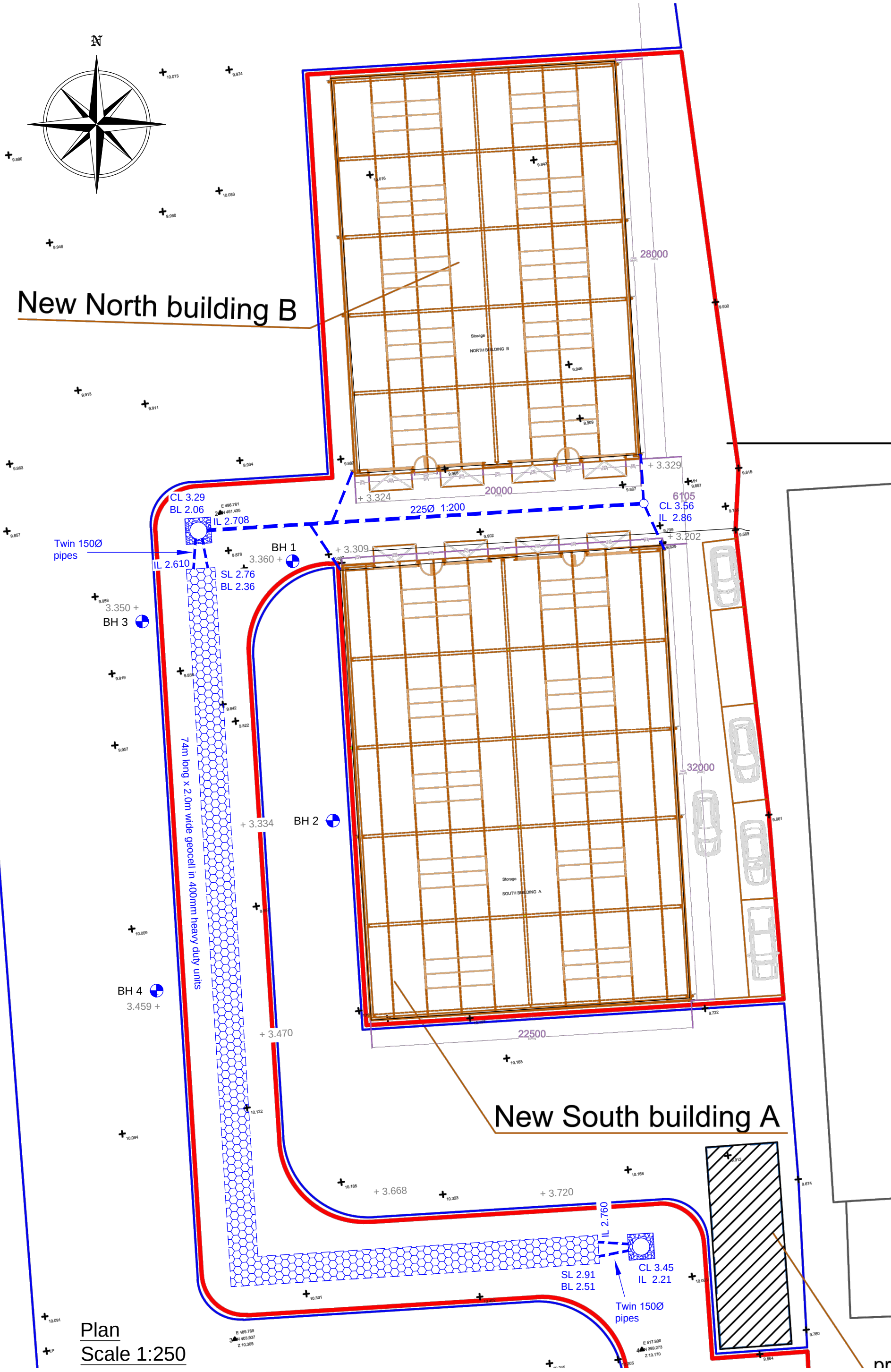




New North building B



Plan
Scale 1:250

KEY

- Proposed storm drainage as detailed
- Proposed geocellular soakaway as detailed in 0.4m deep HD geocells
- Proposed 1.2m dia. concrete ring soakaway as detailed with 300 sump as silt trap
- 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
- BH 2 Percolation test point
- +27.87 Existing ground levels in metres AOD

Surface Water Drainage Design Notes

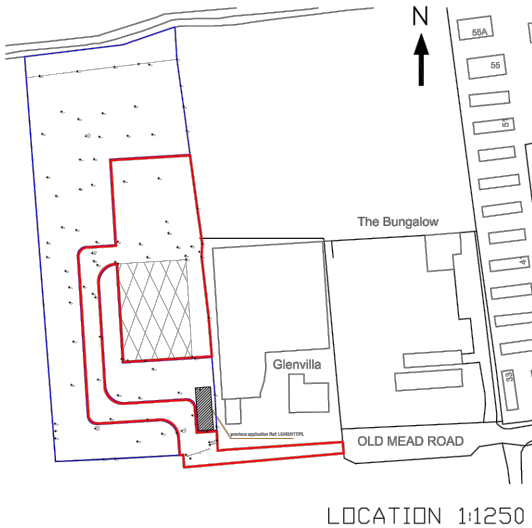
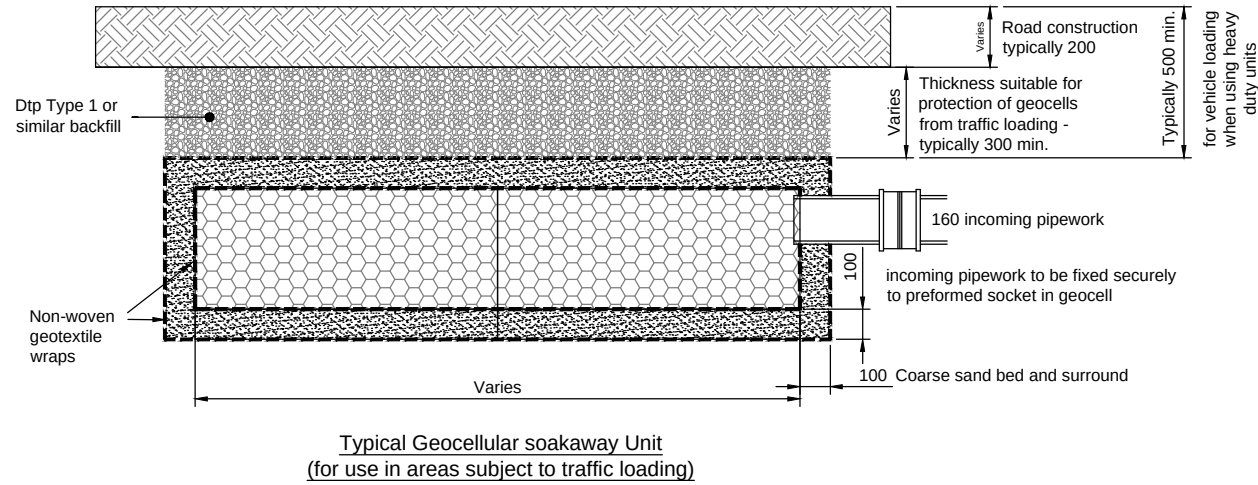
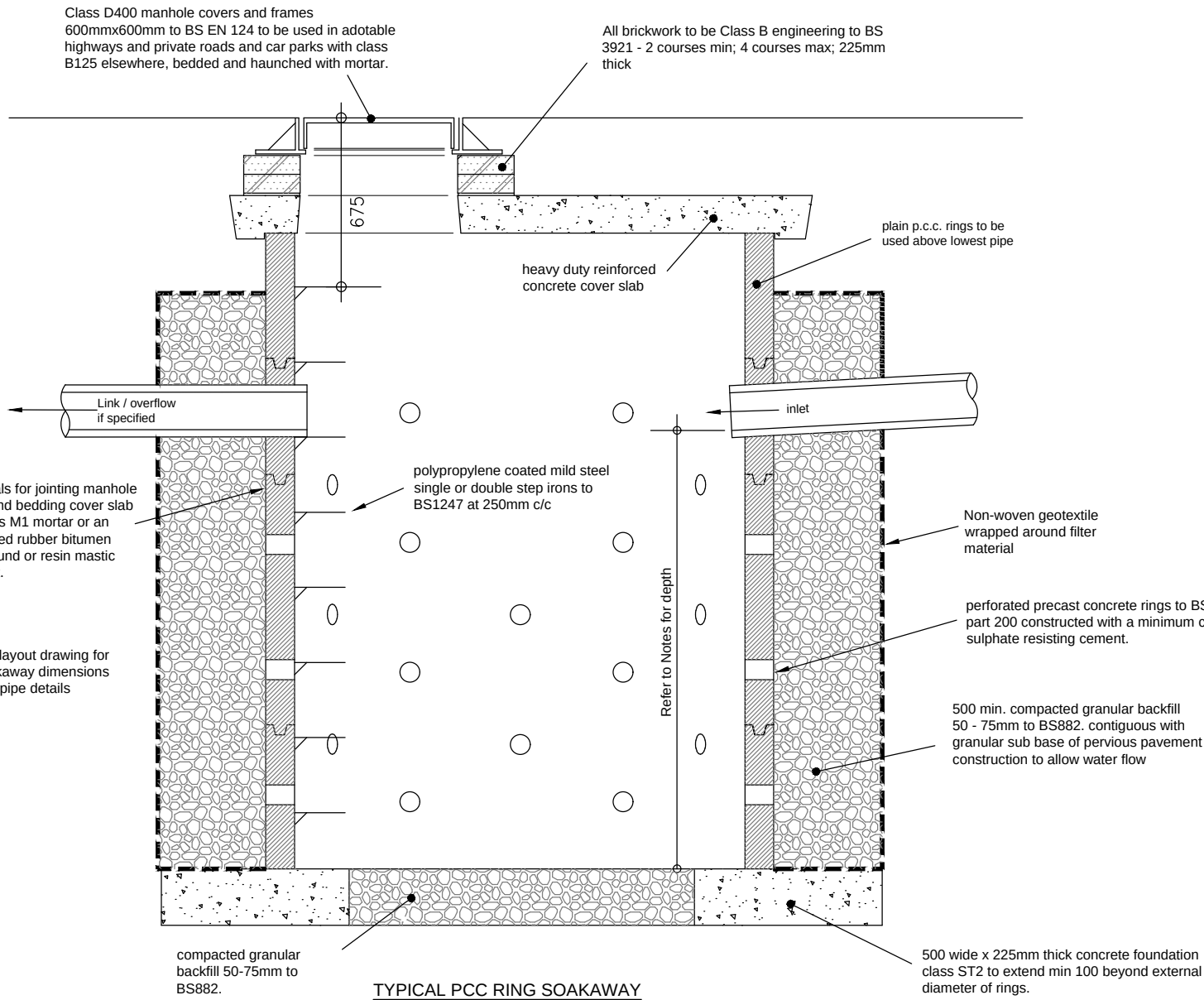
Ground conditions here are shown to comprise Topsoil over Raised Beach and Marine Deposits of clay, silt, sand and gravel over Upper Chalk.

In practice, we found a little topsoil over made-up ground containing a mixture of clay, chalk and some hardcore down to 1.65m below ground level in places. The Raised Beach Deposits were encountered below this generally as a damp gravelly clay.

Groundwater strikes varied and three monitoring points were installed in boreholes BH1, BH3 and BH4. Subsequent groundwater monitoring carried out from early November 2018 through to the end of March 2019 has shown groundwater generally below 1200mm below ground level but a short-term peak occurred at the end of December 2018 of 933mm BGL.

Percolation tests carried out to BRE365 principles at various times between the end of October 2018 and the end of November 2018 gave fairly consistent results that averaged 5.374×10^{-5} m/s.

We have designed a 74m long geocellular soakaway 2m wide, using a single layer of heavy duty 400mm units with minimum 500mm of cover located in the access track in order to keep within the planning red line boundary. Two concrete ring soakaways are included to provide some additional soakage and to act as silt traps to protect the geocells and to provide a downstream vent.



Location Plan - scale 1:1250

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

Percolation Test Results

BH 1 - Test 3 at 1558mm depth 4.246×10^{-6} m/s
BH 2 - Test 3 at 1140mm depth 1.064×10^{-4} m/s
BH 3 - Test 3 at 1440mm depth 4.792×10^{-5} m/s
BH 4 - Test 3 at 1320mm depth 5.665×10^{-5} m/s
Average of all 4 tests was 5.374×10^{-5} m/s
Average of the 2 shallowest tests 8.153×10^{-5} m/s

-	Original	PC		RTFC	28.4.19
Rev.	Description	App.	Chk.	Drn.	Date
Client					
Manou Amirpashaie					
Project					
Castle View Storage					
Drawing Title					
Surface Water Drainage					
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Scale	As shown		At original		A2
Drawing Number	2003/SK5				Revision -