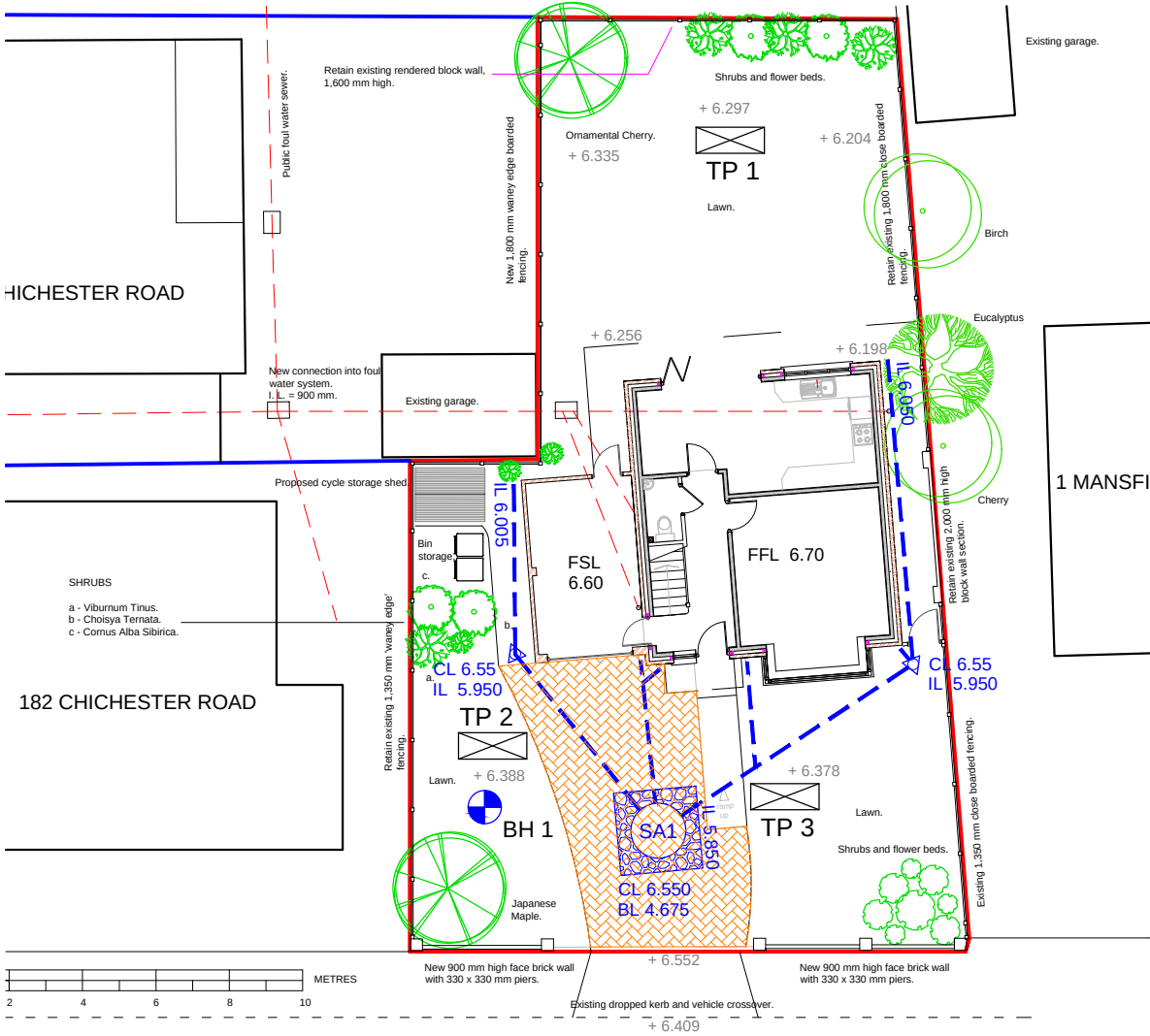




Plan - scale 1:200

Surface Water Drainage Design Notes

The geology here indicates Topsoil over River Terrace Deposits of silt, sand, clay bordering on alluvium with similar components. The underlying bedrock is the Lambeth Group of clay silt and sand bordering on Upper Chalk. The River Terrace Deposits were found at 350 - 500 mm below ground level and comprised soft to firm silty sandy clays with lenses of clay and fine sand with some small sub-rounded flint gravel at depth. Upper Chalk was not encountered in test holes that extended to 2.6m below ground level.

Three percolation test pits were machine excavated and one groundwater monitoring point was augered. Minor groundwater seepage was encountered at 2.535m below ground level on 10th May 2019.

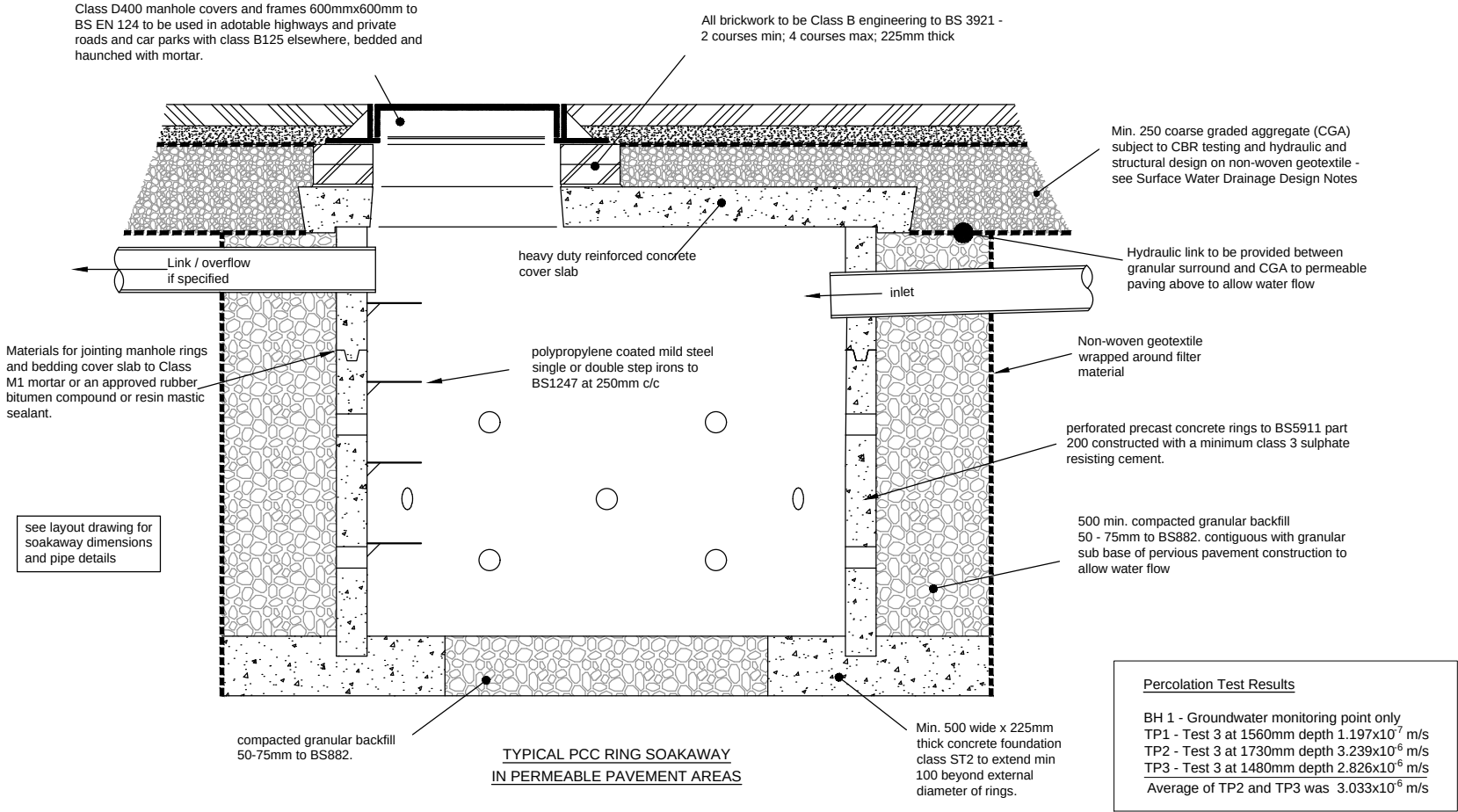
The drainage design is based on several percolation tests carried out to BRE 365 principles in late March. TP1 at the rear of the site gave very low infiltration rates of less than 10^{-6} m/s and after several tests it was concluded that the rear of the site would not be suitable for any infiltration methods. TP2 and TP3 at the front of the site, however, gave consistent rates that averaged 3.033×10^{-6} m/s.

A large concrete ring soakaway has been designed to collect all run-off from the new building. It will have the facility to overflow below ground level into the coarse aggregate beneath the formal permeable paving as shown and this will be suitable to drain the new roof areas without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

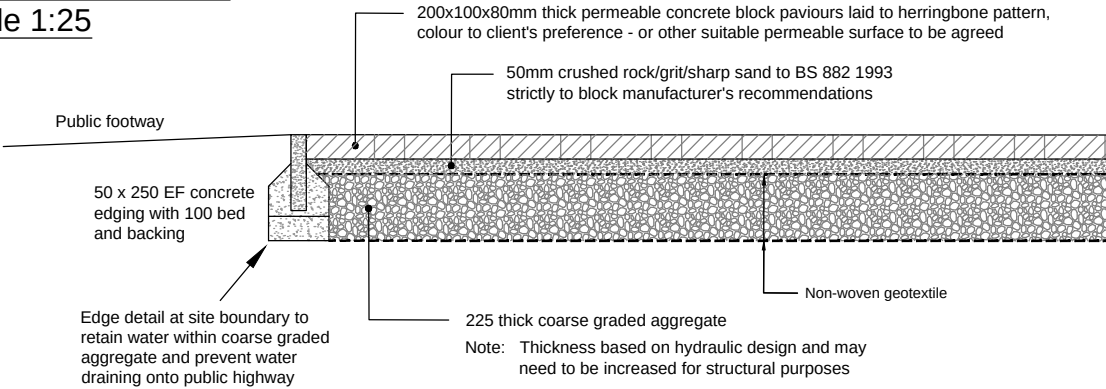
NOTE

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

- KEY**
- Proposed storm drainage 100mm dia at min 1:100
 - Proposed permeable surfaces - see construction details
 - Proposed 1.5m dia. concrete ring soakaway 1.875m deep to base
 - 250 dia surface water inspection chamber
 - +27.87 Existing ground levels in metres AOD
 - CL ##### Cover level of surface water manholes
 - BL ##### Base level of soakaways
 - IL ##### Invert level of surface water drains
 - TP 2 Percolation test pit locations
 - BH 2 Groundwater monitoring point



Construction Details
scale 1:25



Location Plan - scale 1:1250

Rev.	Description	Drn.	Date
-	Original	RTFC	15.5.19

Project
Land r/o 182 Chichester Road Bognor Regis

Client
Simon Abbot
Drawing Title
Surface Water Drainage

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Scale As shown		At original A3	
Drawing Number 2024/SK2		Revision -	