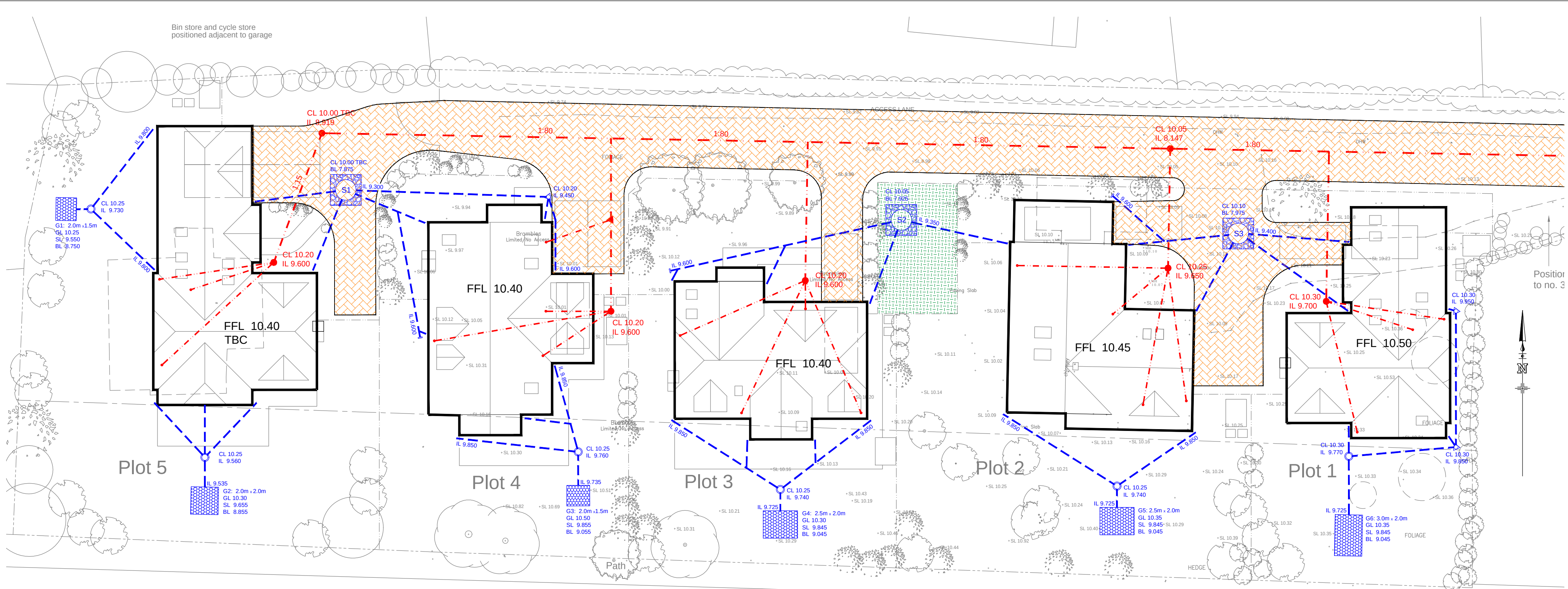


Bin store and cycle store
positioned adjacent to garage



Site Plan scale 1:200

KEY

- Proposed storm drainage
100mm dia at min 1:100
- Proposed geocellular soakaway
3sq.m of 0.8m deep geocells
- +17.87 Existing ground levels in meters AOD
- CL#.### Cover level of IC/ soakaway
- SL #.### Soffit (top) level of geocell
- BL #.### Base level of ring soakaway
- IL #.### Invert level of surface water drains
- Permeable concrete block paving
80 blocks on 50 laying course on
min. 250 coarse graded aggregate
- Proposed silt trap inspection chamber
- Proposed foul drainage
100mm dia at min 1:80
- Existing public foul water sewer
- Concrete ring soakaway of
1500mm internal diameter

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

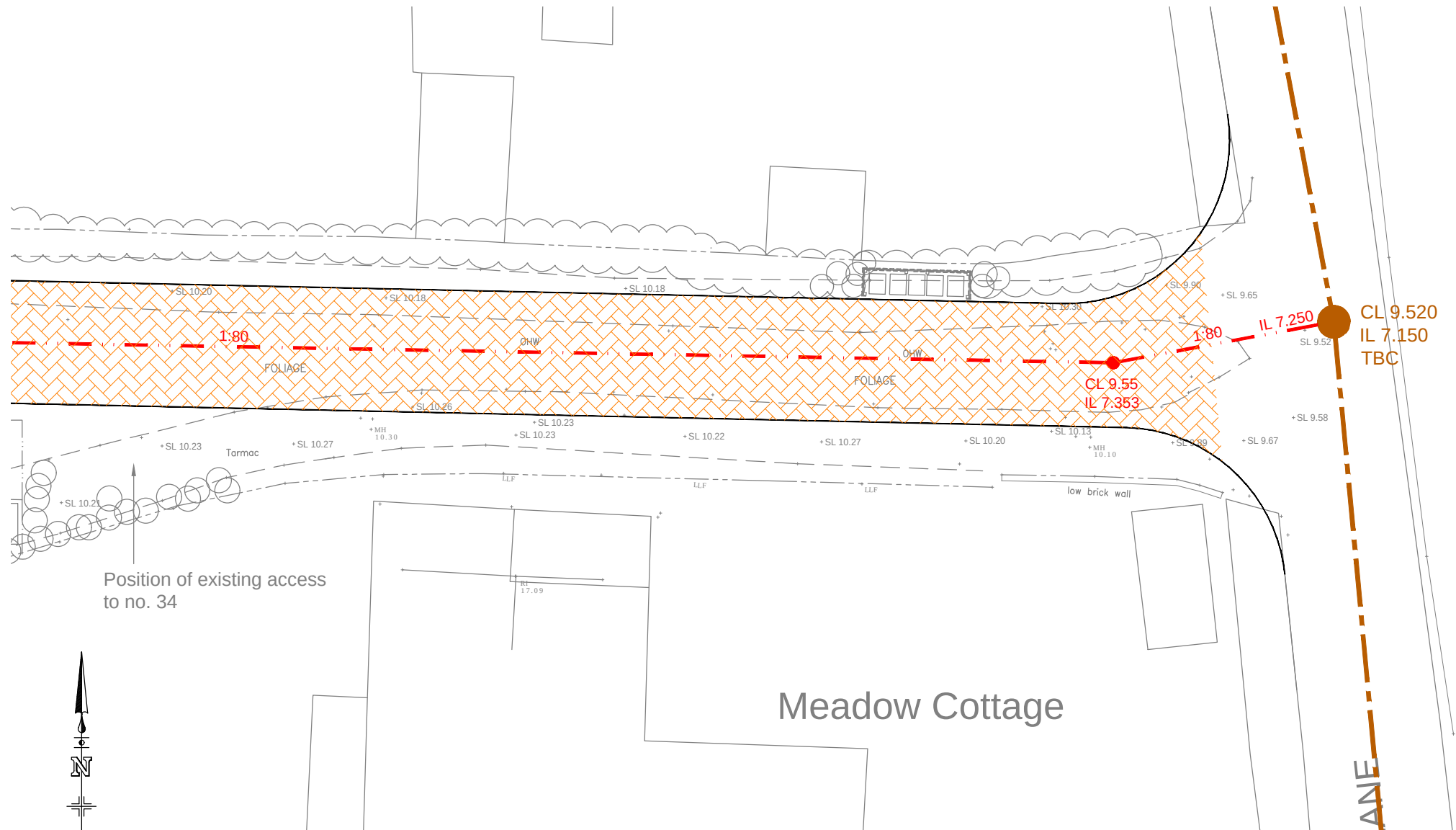
Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over Upper Chalk of the New Pit formation. The River Terrace Deposits were found at around 0.15m below ground level with the Upper Chalk starting to appear at around 2.0m below ground level. No groundwater was found during the investigations in late November 2017 but subsequent monitoring in two boreholes on the site from November 2017 through to April 2018 has provided levels ranging from 1.74m below ground level down to 2.74m as the extremes.

The drainage design is based on percolation tests carried out to BRE365 in five separate test holes in November 2017. Soil infiltration rates in the deeper test pits over 2m, gave low infiltration rates from 4.566×10^{-5} m/s up to 1.233×10^{-5} m/s, whilst those in the shallower test pits of up to 750mm gave higher and consistent infiltration rates from 4.101×10^{-5} m/s up to 5.256×10^{-5} m/s. A design rate of 2.668×10^{-5} m/s has been used here.

Permeable concrete block paving is proposed for the access road and parking areas throughout the site, combined with geocells and three 1.5m dia. concrete ring soakaways, each 2.15m deep located in the permeable paved areas. The ring soakaways will collect water from some roof areas, distribute it within the permeable paving as required and provide a connection to the chalk layers below the overlying River Terrace Deposits.

The permeable paving will incorporate a minimum 250mm thick layer of coarse graded aggregate with a 130mm layer of bituminous material above as a running surface during construction, so as not to damage the formation. The bituminous material will be punctured on completion prior to laying the block paving. An alternative 100mm thick sacrificial layer of hardcore on Terram could be used instead. The design of the sub-base for the permeable paving will be carried out by others once CBR test results are known.



-	Original	PC		RTFC	17.9.18
Rev.	Description	App.	Chk.	Drm.	Date
Client					
Designer Developments					
Project					
32-34 sea Lane Ferring					
Drawing Title					
Drainage Layout					
Robert Clark Associates Ltd Chartered Civil Engineers Willow Cottage, Herne Lane, Rustington West Sussex BN16 3EE Tel: 01903 778945 Fax: 01903 778967					
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Scale	1:200		At original		A2
Drawing Number	1764/SK2			Revision -	