

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace and Raised Beach Deposits (soft to firm silty sandy clays and gravels) over Upper Chalk. The River Terrace Deposits were found at 0.6m depth below made-up ground with weathered Upper Chalk at around 2.5m below ground level. Groundwater was originally found at 2.035m below ground level during the investigations but this was found to be perched and subsequent monitoring on site from October 2017 to date has provided levels ranging from 3.335m below ground level down to 3.425m, which is at the base of the monitoring well.

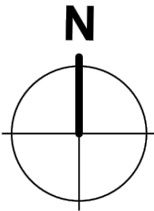
The drainage design is based on percolation tests carried out to BRE365 in two separate test holes in January 2018. Soil infiltration rates of 1.37x10⁻⁵ m/s up to 1.65x10⁻⁵ m/s in the River Terrace Deposits were obtained.

Permeable concrete block paving is proposed for the parking areas, combined with two 1.8m dia. concrete ring soakaways, each 2.5m deep located in the parking area. The soakaways will collect water from all roof areas with the permeable paving accepting direct rainfall as well as any small run-off from surrounding paths if required.

The permeable paving will comprise concrete blocks or a suitable plastic geocellular system with stone filling and will incorporate a minimum of 250mm thick layer of coarse graded aggregate beneath.

Key

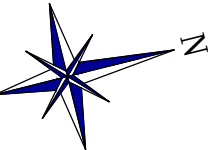
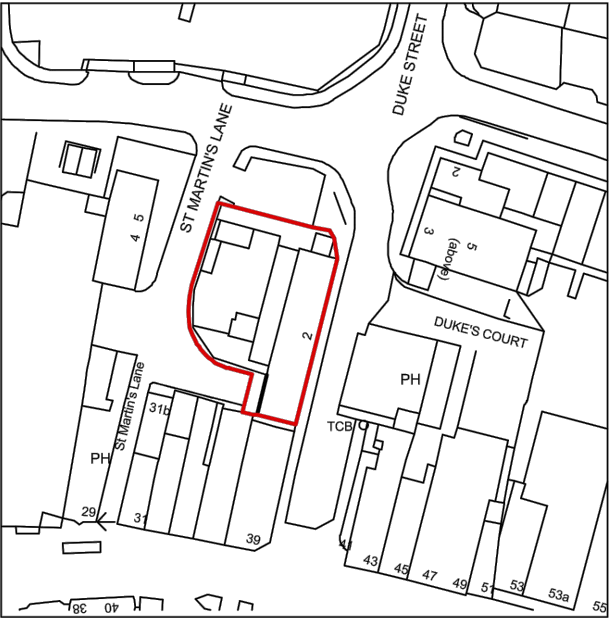
- Proposed surface water drainage
- 250 dia surface water inspection chamber
- 450 dia surface water inspection chamber
- Surface water rodding eye
- Concrete ring soakaway
1.8m Dia. 2.5m deep
- Permeable paving with a minimum of 250mm of coarse graded aggregate



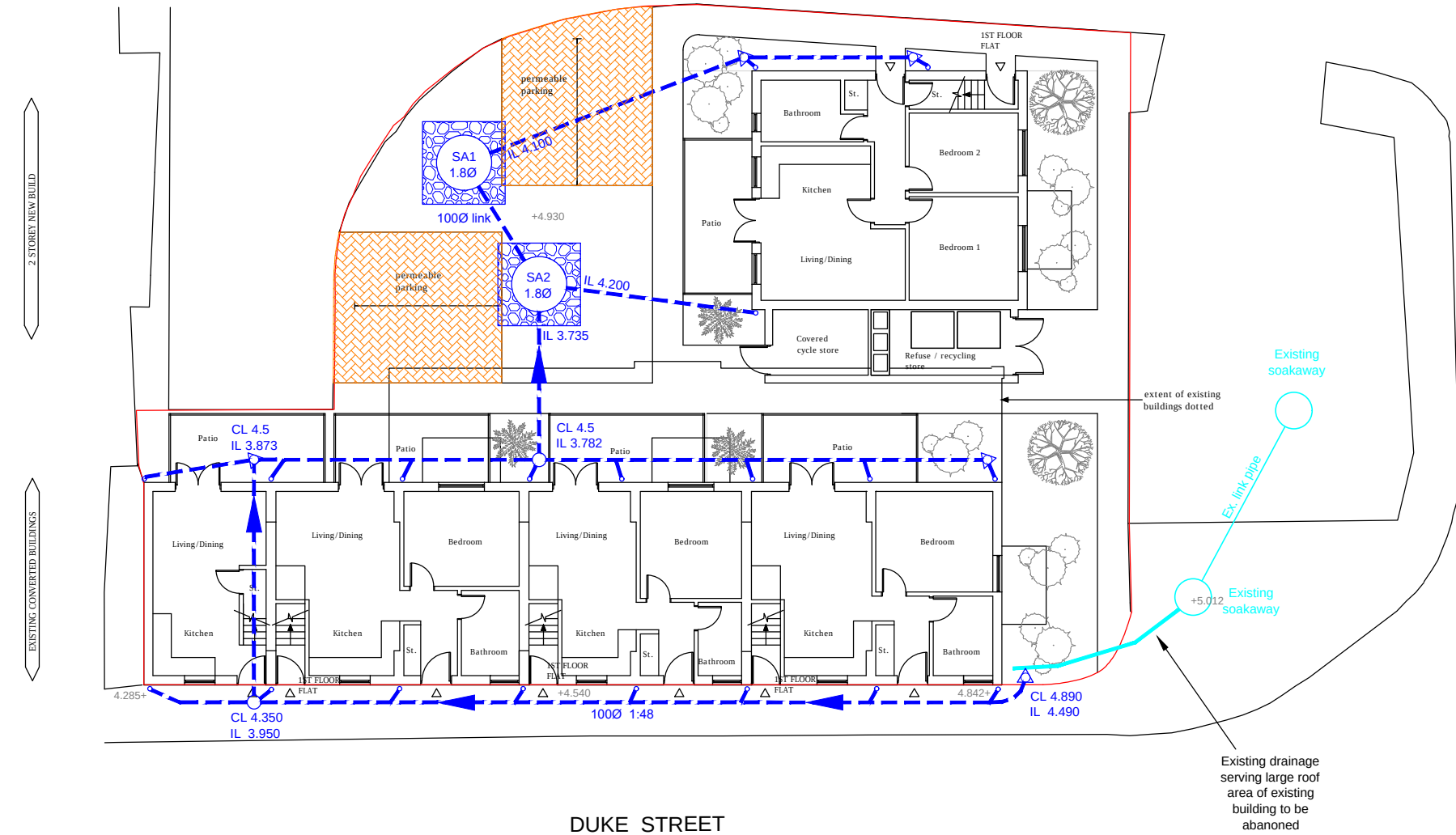
m 0 10 50

Scale Bar 1:1250

Site Location. (1:1250)



ST MARTIN'S LANE



Plan - scale 1:200

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	7.3.18
Rev.	Description	Drn.	Date

Project

Former Tap and Barrel
Duke Street
Littlehampton

Client

Castle Property Developments

Drawing Title

Surface Water Drainage

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Scale	As shown	At original	A3
Drawing Number	1739/SK5		Revision
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