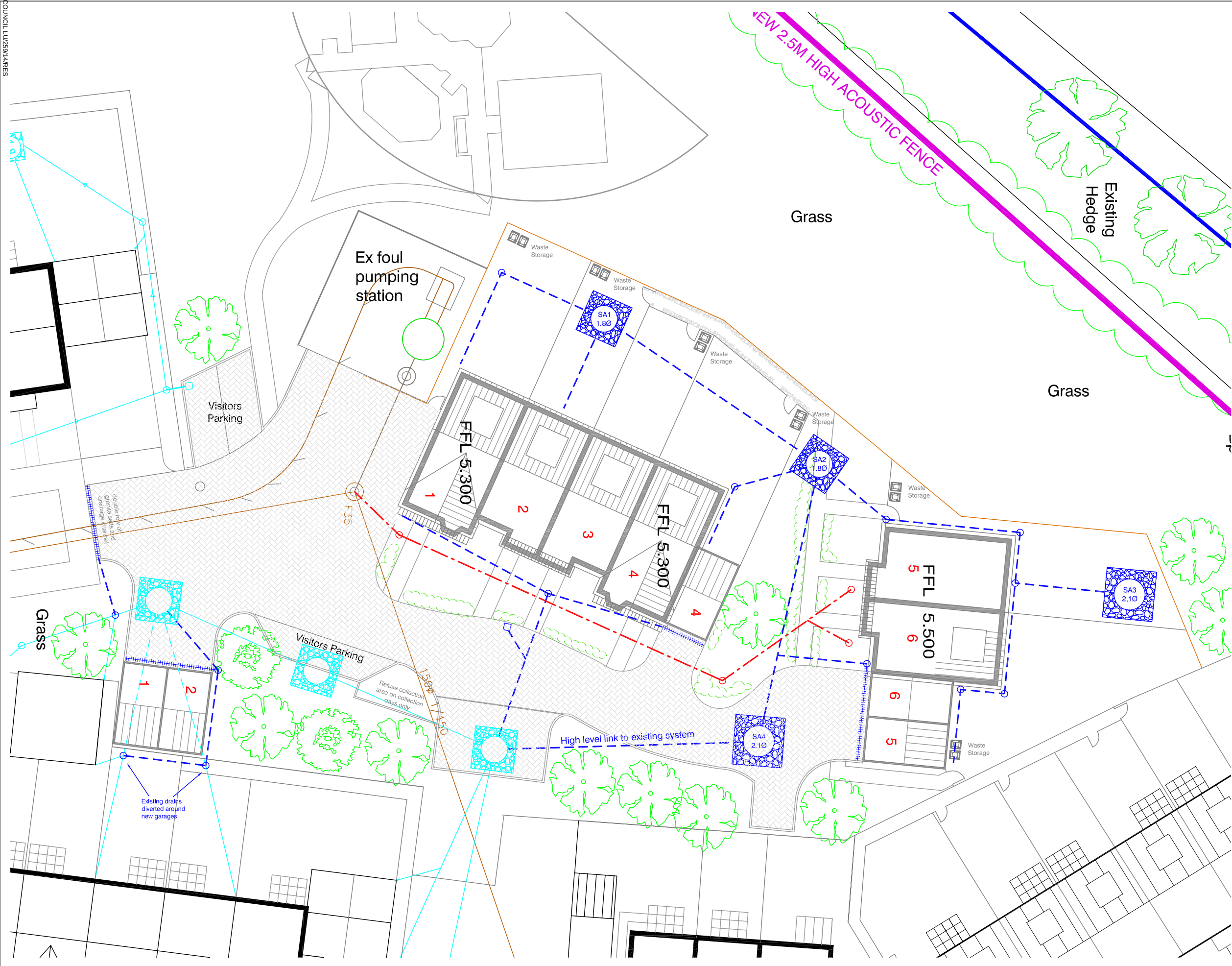




Notes

These surface water drainage proposals have been prepared in support of a planning application for 6 new residential properties on behalf of Hargreaves Residential Developments Ltd.

Surface water drainage comprises 4No. linked concrete ring soakaways, 2No. at 1.8m diameter and 2No. at 2.1m diameter, all with an overall depth of 2.5m designed in accordance with BRE 365.

Percolation testing carried out in March 2014 revealed variable soils comprising sandy, silty clays with some grit/ flint gravel overlying upper chalk weathered at shallow depth to putty chalk in places. The silty clays at shallow depth were not found to be suitable for permeable paving.

Soil infiltration rates varied from 1.90x10-6m/s to 5.62x10-5 m/s and averaged 2.02x10-5m/s (0.07272m/hr).

The total impermeable area is 675 sq.m and each 1.8m dia. soakaway will drain up to 150 sq.m and each 2.1m dia. soakaway will drain up to 200 sq.m on a 1 in 100 year storm with an allowance of 30% for climate change.

Groundwater levels were found to be between 2.21m and 2.95m below ground level. Two groundwater monitoring points have been installed which are showing that levels are dropping and are now averaging around 3.0m below ground level.

Perched grounwater may be encountered in the shallow clays and it is considered that soakaways should be installed to penetrate the Upper Chalk.

Inspection of existing soakaways on the adjacent site, which is within the control of the applicant, has revealed that they appear to be working well with low water levels and it is proposed to include a high level connection to an adjacent system of 3 linked soakaways to ensure that best use is made of soakage and to protect against variable rates across the site.

-	Original	RTFC	16.6.14
Rev.	Description	Drn.	Date

Project

Land at The Poplars Littlehampton

Client

Hargreaves Residential Developments Ltd

Drawing Title

Foul and Surface Water Drainage Layout

Robert Clark Associates Ltd
Chartered Civil Engineers
Willow Cottage, Herne Lane, Rustington
West Sussex BN16 3EE
Tel: 01903 778945 Fax: 01903 778967

© This drawing is the copyright of Robert Clark Associates Limited It may not be copied or reproduced without their written authority			
Scale	1:250	At original	A3
Drawing Number	1569/D1.1	Revision	Draft 16Jun