KEY

Proposed storm drainage 100mm dia at min 1:100

Proposed silt trap inspection chamber

Surface water rodding eye

+7.873 Existing ground levels in meters AOD

SL 7.480 Soffit (top) level of geocells

BL 7.080 Base level of geocells

IL 7.480 Invert level of surface water drains

Proposed geocellular soakaway 6sq.m of 400mm deep geocells

New extensions/re-builds to be drained to geocell G1

Existing roof areas to be drained to geocell G1

Surface Water Drainage Design Notes

The geology here comprises Topsoil over Raised Beach and River Terrace Deposits of silt, sand, clay and gravel over Upper Chalk.

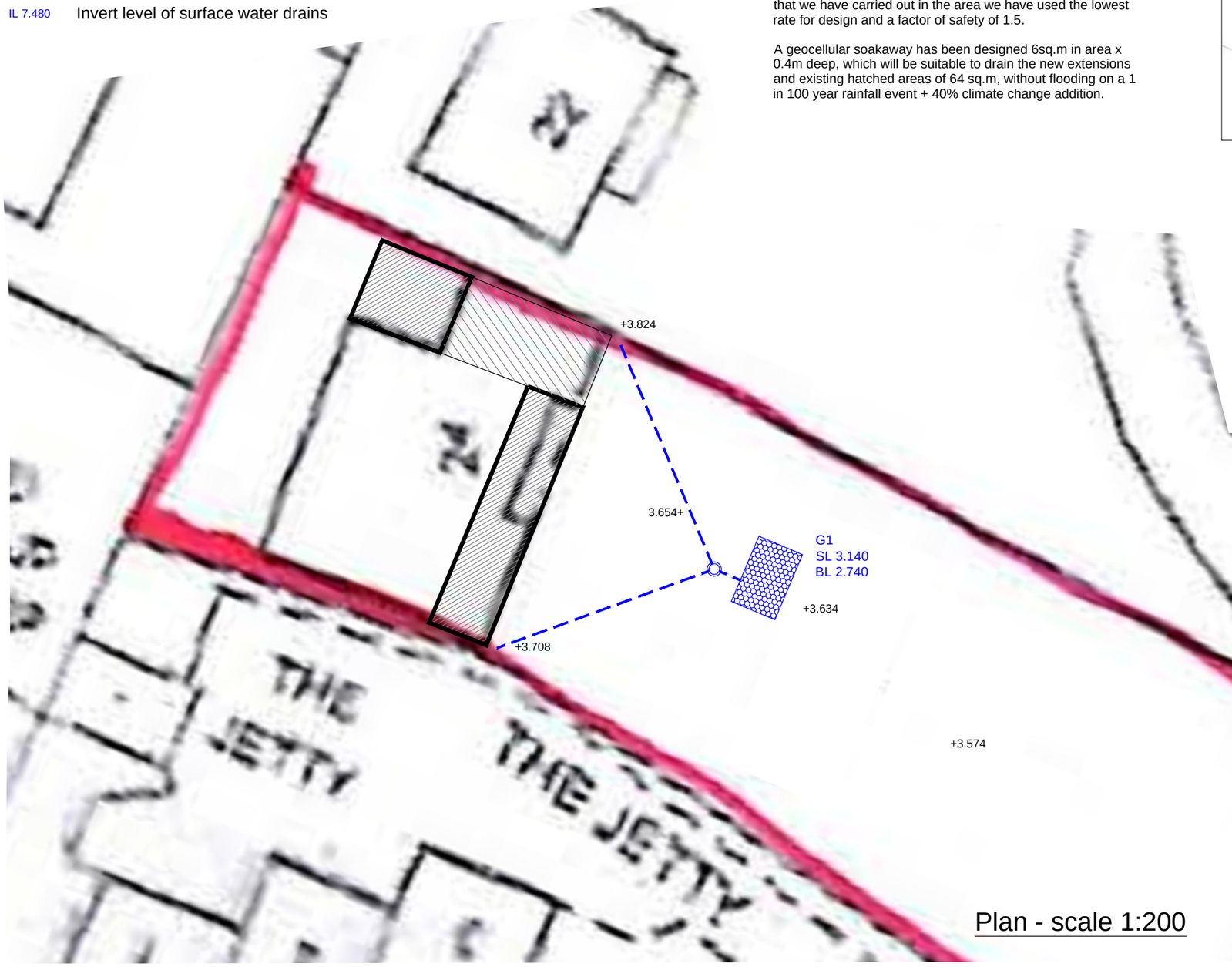
The investigations actually found just a little topsoil over made-up ground down to at least 1.0m below ground level. The Raised Beach/ River Terrace Deposits could not be proved below this as groundwater levels were at 900mm below surface level.

The drainage design is based on percolation tests carried out to BRE 365 principles in two separate test holes in early March 2018. High percolation rates were found in one test hole of up to $1.02x10^{-3}$ m/s with the lowest being $8.44x10^{-5}$ m/s. Due to the variable nature of the ground and from other investigations that we have carried out in the area we have used the lowest rate for design and a factor of safety of 1.5.

A geocellular soakaway has been designed 6sq.m in area x 0.4m deep, which will be suitable to drain the new extensions and existing hatched areas of 64 sq.m, without flooding on a 1 in 100 year rainfall event + 40% climate change addition.



Location plan - scale 1:1250



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

Rev.	Description	Drn.	Date
-	Original	RTFC	7.3.18

Project

24 West Drive
Middleton-on-Sea
West Sussex

Client

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Drawing Title

Surface Water Drainage

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Scale	At original
As shown	A3

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