Plan - scale 1:200

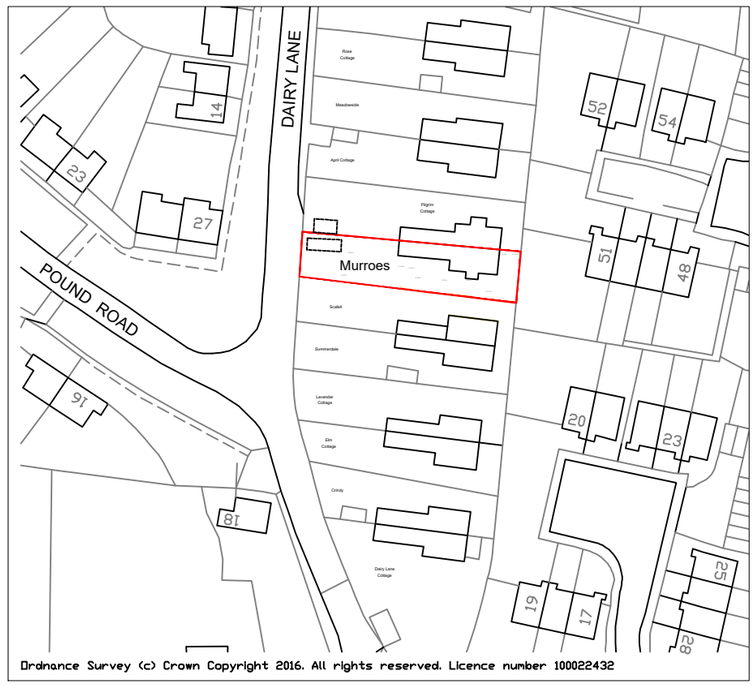
NOTE

This drawing has been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes

Percolation Test Results

TP 1 4.308×10^{-5} m/s in 350 x 1200 test pit
TP 1 4.255×10^{-5} m/s in 350 x 1200 test pit
TP 1 4.190×10^{-5} m/s in 350 x 1200 test pit

Note: Tests carried out in early September 2020



Location plan - scale 1:1250

KEY

- Proposed storm drainage 100Ø at minimum 1:100
- 250 dia surface water inspection chamber
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway 12.5sq.m of 1.2m deep geocells

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over London Clay. The River Terrace Deposits were found at 0.2m below ground level and were found to comprise firm silty gravelley clays with some grit and occasional small chalk fragments. The London Clay was not encountered in test holes that extended to 1.9m below ground level. No groundwater was found during the investigations in early September 2020.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes at neighbouring Scafell in January 2017. A minimum soil infiltration rate of 2.55×10^{-5} m/s was obtained there. Percolation tests at Murroes gave much higher results of up to 4.3×10^{-5} m/s but this rate has not been used, as the tests were not carried out in a winter period and the Scafell results have been used instead.

A rectangular geocellular soakaway has been designed, 2.5m x 5.0m x 1.2m high, which will be suitable to drain a roof area of 182 sq.m without flooding on a 1 in 100 year rainfall event + 40% climate change addition. This area includes some existing roof areas as shown together with future proposals, which may or may not proceed.

Rev.	Description	Drn.	Date
-	Original	RTFC	10.9.20

Project
Murroes
Dairy Lane
Walberton

Client
Mr N. Fulcher

Drawing Title
Surface Water Drainage

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Scale: As shown | At original: A3

Drawing Number: 2039/SK1 | Revision: -