Track

Existing ditch to be cleared of vegetation and silt for approx. 1.5m to downstream headwall and graded evenly throughout.

New headwall to WSCC Dwg. S278/38/23 built at head of watercourse with flow directed in-line using suitable long radius bend

+2.589 IL Pipe

2.419 +

IL 2.644

225Ø 1:100

+3.224

Winters Barn

2

1

+3.490

2x150Ø

CL 3.486
IL 2.736

Existing MH re-built to accommodate all pipes at level inverts

150Ø

2x150Ø

+3.766

150Ø 1:100

STP

IL 3.002

1:60

+3.641

CL 3.85
IL 3.231

IL 3.450 RE

+3.920

+3.815

1:50

+3.602

CL 3.70
IL 3.149

IL 2.895

CL 3.80
BL 1.80

SA1

IL 3.045

IL 3.045

+3.427

IL 3.045

100Ø 1:100

+3.761

1:50

CL 3.95
IL 3.384

+4.047

IL 3.400 RE

1:50

4.417+

CL 3.95
IL 3.500

+3.657

CL 3.95
IL 3.384

+3.628

CL 3.95
IL 3.159

FFL 4.10

+3.594

1:40

CL 3.95
IL 3.500

100Ø 1:50

+3.893

CL 3.993
IL 3.4 TBC

RE IL 3.520

+3.557

100Ø 1:100

+3.641

+4.078

FFL 4.10

CL 3.95
IL 3.350

RE IL 3.520

100Ø 1:100

+4.017

+4.290

Hope Cottage

N



Location Plan - scale 1:1250

Key

Proposed foul water drainage 100mm diameter at min. 1:80

Proposed surface water drainage 100mm diameter at min. 1:100

250 dia surface water inspection chamber

450 dia surface water inspection chamber

450 dia foul water inspection chamber

Concrete ring soakaway 1.5m dia.
CL #.### Cover Level
BL #.### Base Level

Permeable paving in concrete blocks

Permeable paving in gravel

+7.87 Existing ground levels in meters AOD

Plan - scale 1:250

0m 2m 4m 6m 8m 10m

Surface Water Drainage Design Notes

Ground conditions here comprise Made Ground over River Terrace Deposits (soft to firm silty sandy clays) over Upper Chalk. The River Terrace Deposits were found at 0.2 to 0.35m below ground level and comprised soft to firm silty clays and clayey silts with some grit and larger sub-angular flints. The Upper Chalk was encountered in some trial holes and recorded as sandy, gravelly silt.

Groundwater was found at variable levels in some trial holes during the investigations in May 2018. Standing water was present throughout a large proportion of the site.

Percolation tests carried out to BRE365 principles gave very inconsistent results ranging from very poor to non-compliant and the soils were described as "practically impervious".

Whilst permeable paving is proposed for the access and parking areas within the site, this will not operate successfully without the included 1.5m dia. concrete ring soakaway which will allow it to drain down after a rainfall event. The soakaway will provide a little soakage at certain times of the year but will primarily act as a sump for the permeable paving with a high level outfall to the watercourse.

Rev.	Description	App.	Chk.	Drn.	Date
-	Original			RTFC	10.9.18

Client

Melanie Jenkins
Farming Ltd

Project

Sack Lane Dairy
Sack Lane, Lidsey

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: As shown

At original: A2

Drawing Number: 1804/SK4

Revision: -