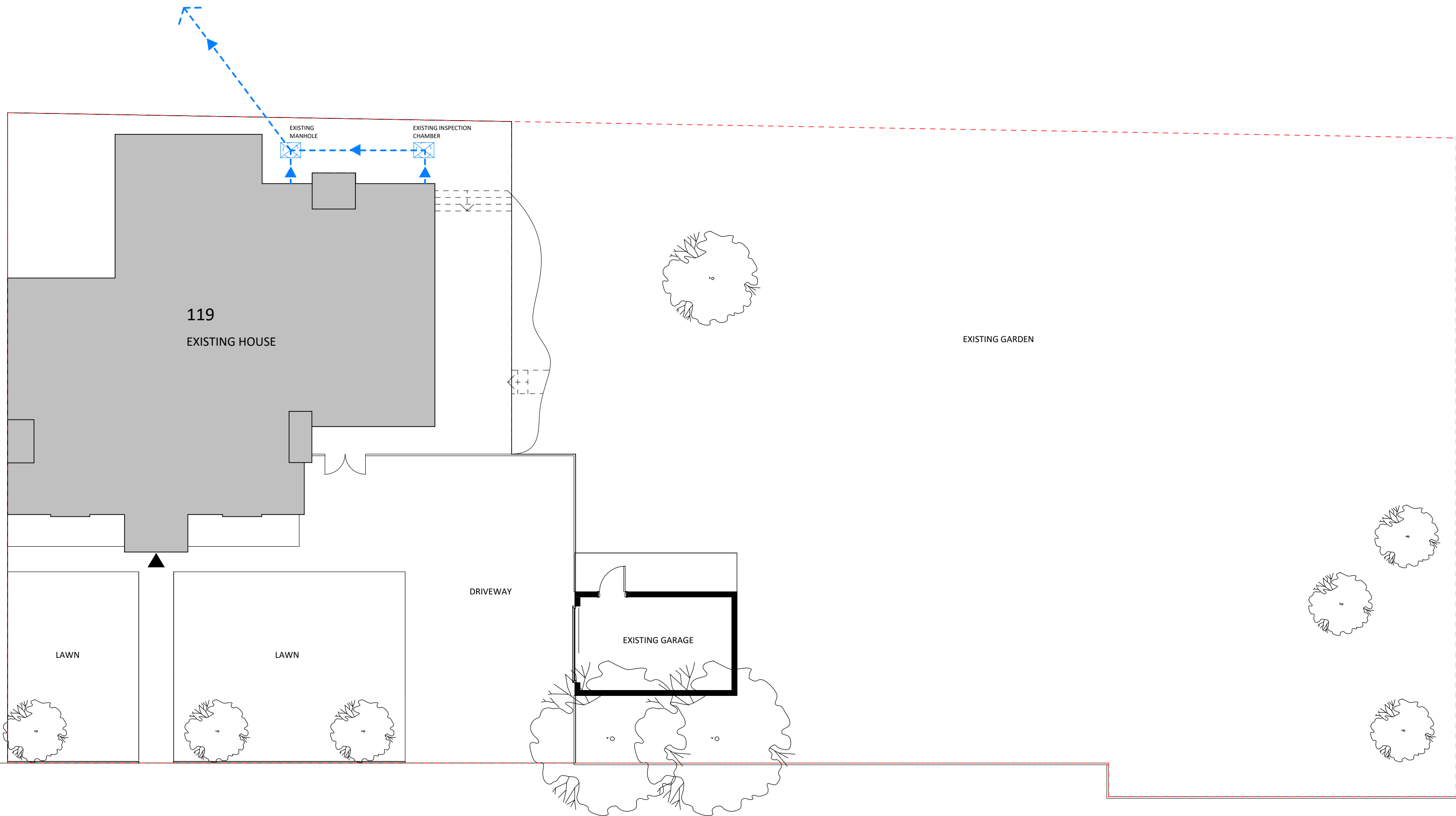
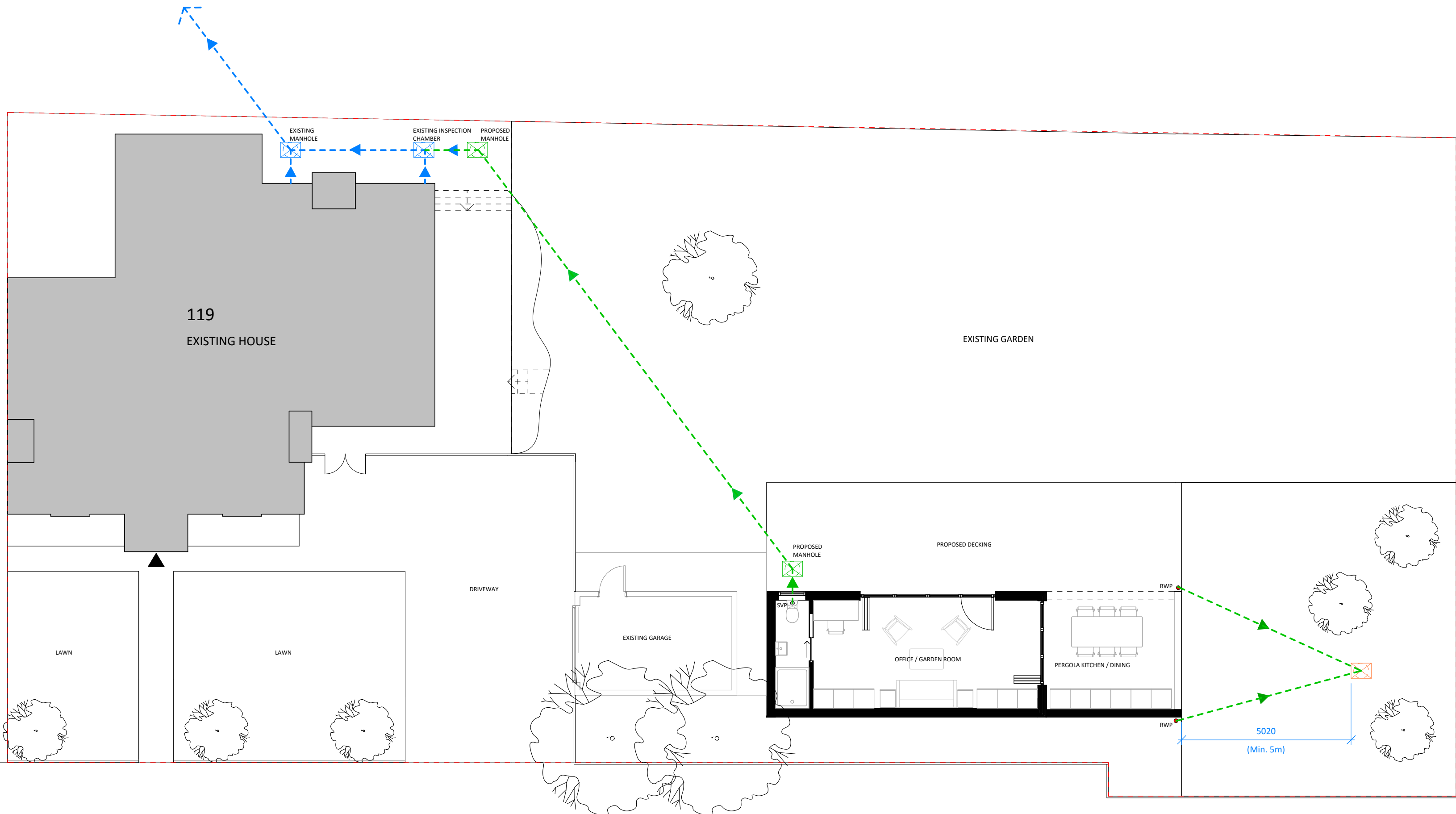




Existing Drainage Plan

1 : 100



Drainage Plan - Proposed

1 : 100

The use of this data by the recipient acts as an agreement of the following statements. Do not use this data if you do not agree with any of the following statements:-

All drawings are based upon site information supplied by third parties and as such their accuracy cannot be guaranteed. All features are approximate and subject to clarification by a detailed topographical survey, statutory service enquiries and confirmation of the legal boundaries.

The controlled version of this drawing should be viewed in DWG or PDF format not DWG or other formats. All prints of this drawing must be made in full colour.

Use figured dimensions in all cases. Check all dimensions on site. Report any discrepancies in writing to CBLS Consultants before proceeding.

NOTES

- ALL DRAINAGE TO BE INSTALLED IN LINE WITH PART H REQUIREMENTS OF THE BUILDING REGULATIONS
- ALL WORKS TO BE CARRIED OUT IN CONJUNCTION WITH THAMES WATER BUILD OVER DETAILS AND DESIGN CRITERIA
- ALL RAINWATER TO BE TAKEN TO ADEQUATELY SIZED SOAKAWAYS A MINIMUM OF 5M AWAY FROM EXTERNAL WALLS OF THE PROPERTY

LEGEND

EXISTING DRAINAGE

PROPOSED DRAINAGE

EXISTING MANHOLE

PROPOSED MANHOLE

PROPOSED SOAKAWAY

RAINFALL INTENSITY

The site is located in Charvil, Berkshire, which typically experiences a design rainfall intensity of 50-75 mm/hour for a 1- in-10-year storm event. For conservative planning, we'll use 75 mm/hour.

SOIL PERMEABILITY

The site predominantly features loam soils, (a mix of sand and clay) which have moderate permeability. This means water drains at a moderate rate and an adequately sized soakaway will prevent surface water accumulation.

SOAKAWAY SIZE CALCULATION

1. Calculate Rainfall Volume:

- Roof Area: 46 m²
- Rainfall Depth: Assuming a 1-hour storm at 75 mm/hour:
- 75 mm = 0.075 m
- Volume = Roof Area × Rainfall Depth
- Volume = 46 m² × 0.075 m = 3.45 m³

2. Adjust for Soakaway Void Ratio:

- Crate System (95% void):
- Required Volume = 3.45 m³ / 0.95 = 3.6m³
- Example Dimensions: 2 m (L) × 2 m (W) × 0.9 m (D)

PERCOLATION TESTING AND INFILTRATION

Soil percolation tests were carried out on the site of the proposed soakaway on 31.05.2025 which yielded an average infiltration rate of 40mm/hour.

The proposed soakaway system has capacity to fully infiltrate the 1 in 100 year storm event with a 30% climate change allowance.

Amendment

Purpose of Issue

Planning

Project

J. Shah

119 Old Bath Road, RG10 9QN

Outbuilding

Drawing

Drainage Plan

Drawing No.

Project ID

OBR1 - CBLS -00 - ZZ - DR - A -0002

CBLS Project No.

D_0001- As AS S4 P01

Scale at A1

Drawn By

Status

Revision

indicated

info@cblsconsultants.co.uk

www.cblsconsultants.co.uk

