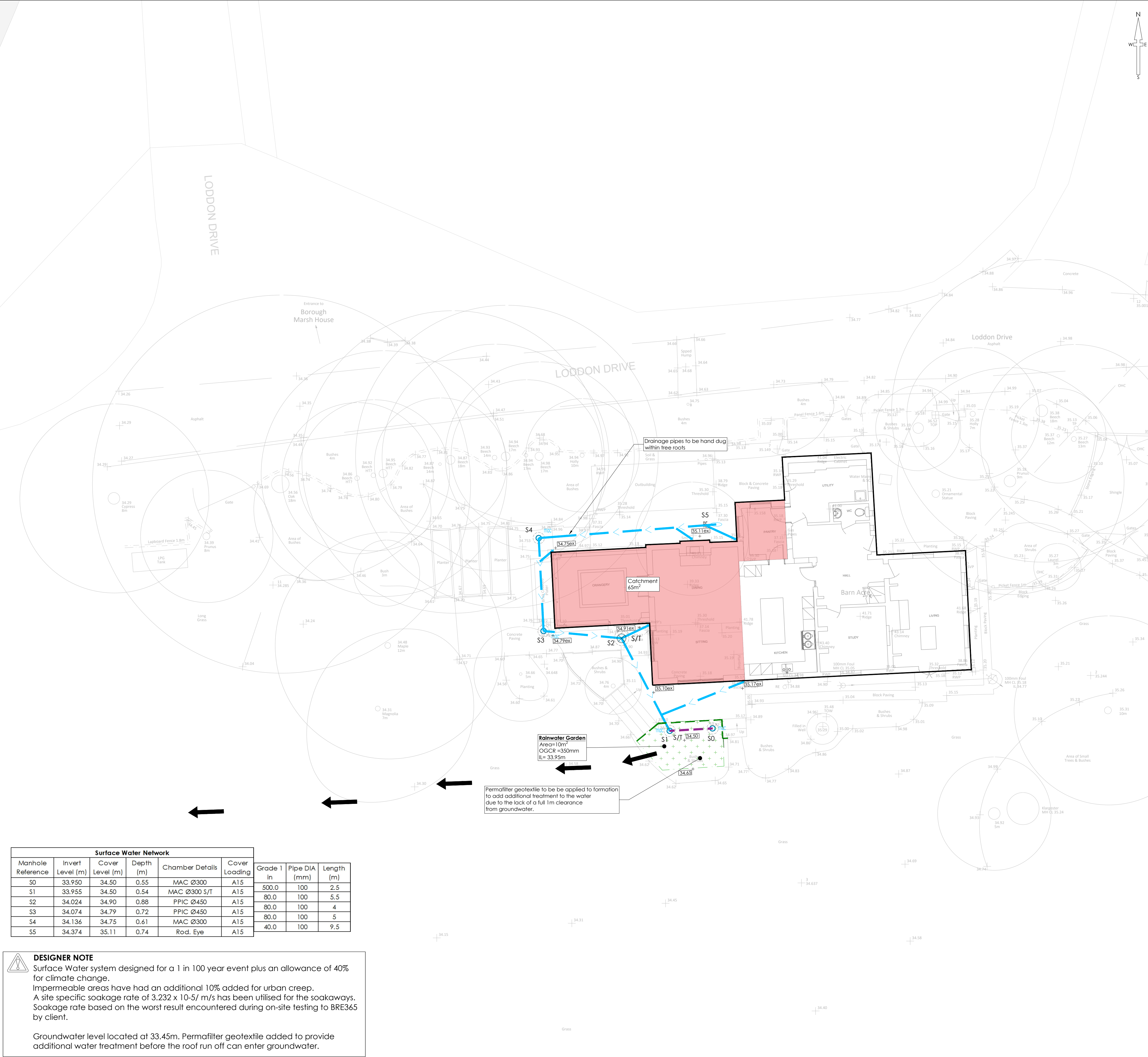




DESIGNERS CDM NOTE - RESIDUAL RISKS IDENTIFIED

The design Engineer(s) have analysed this design as the scheme has been developed, in order to identify if there are any significant residual risk hazards (i.e. unusual, unexpected, abnormal or difficult).

Residual risks **HAVE** been identified and are therefore shown on this drawing. These risks have not been possible to remove by design.

This statement assumes that a competent Contractor with the appropriate qualified staff will be employed for the works, and that they will be familiar with site wide construction risks and hazards that they can reasonably be expected to encounter as part of their work.

BURIED UTILITIES RISK NOTE

- Buried utilities are present on and in the vicinity of the site.
- The Contractor must satisfy themselves that they have seen utility returns for the area and that appropriate Risk Assessment Method Statement (RAMS) are in place and implemented to ensure that buried and/or overhead services are located prior to any works taking place.
- Any RAMS shall address safe procedures for protection and working in the proximity of services.

Construction Note

It is essential that new drainage associated with the development is laid from the outfall(s) into the site. This is essential to avoid unforeseen obstructions where encountered (such as services). If the drainage is laid from the site out to the outfall it can result in significant abortive works to relay and overcome such obstructions.

Location of Public Sewers have been taken from record drawings which should be fully substantiated by the contractor prior to commencing works on site

All manholes covers located within carriageways shall have no slip covers to prevent motorcycles/cycles losing control

Manhole schedules - Invert level shown related to the deepest pipe within the chamber

All adoptable drainage works to follow the requirements of Water UK - Design and Construction Guide (DCG).

CDM RESIDUAL RISK ITEM

Existing services likely within working area.
Danger to site personnel and general public

CDM RESIDUAL RISK ITEM

Drainage pipes, manhole rings covers and fittings.
Risk of Manual handling injury.

CDM RESIDUAL RISK ITEM

Above Ground activities.
Possibility of objects falling from operations at high level onto persons working or passing below.

CDM RESIDUAL RISK ITEM

Works within confined spaces.

NOTES

- All dimensions and levels are in metres unless otherwise noted
- This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM documentation
- This drawing has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only (DO NOT SCALE - EXCEPT FOR PLANNING PURPOSES). All dimensions to be checked on site. Any errors or omissions to be reported to the engineer immediately.
- This drawing contains coloured lines / information that may not be clear if reproduced in black and white.
- Digital copies of this plan can only be considered accurate if supplied directly by Infrastruct CS Ltd.

Drainage Key

Sewers

- Surface water drain (private/non adoptable)
- Perforated pipe

Chamber Key

PW/SW

- Mini access chamber (mac) - 300mmØ
- PPIC - 475mmØ*

* General note
(Refer to standard details & longitudinal sections for chamber sizes. Size may need to increase dependant on number of incoming pipes/size of incoming pipes)

Level Key

- Proposed level
- Existing survey level (by others)
- Existing level

Surface Water Network						Grade 1 In	Pipe DIA (mm)	Length (m)
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading			
S0	33.950	34.50	0.55	MAC Ø300	A15	500.0	100	2.5
S1	33.955	34.50	0.54	MAC Ø300 S/T	A15	80.0	100	5.5
S2	34.024	34.90	0.88	PPIC Ø450	A15	80.0	100	4
S3	34.074	34.79	0.72	PPIC Ø450	A15	80.0	100	5
S4	34.136	34.75	0.61	MAC Ø300	A15	40.0	100	9.5
S5	34.374	35.11	0.74	Rod. Eye	A15			

DESIGNER NOTE

Surface Water system designed for a 1 in 100 year event plus an allowance of 40% for climate change.

Impermeable areas have had an additional 10% added for urban creep.

A site specific soakage rate of 3.232 x 10-5/ m/s has been utilised for the soakaways.

Soakage rate based on the worst result encountered during on-site testing to BRE365 by client.

Groundwater level located at 33.45m. Permafilter geotextile added to provide additional water treatment before the roof run off can enter groundwater.

P01

APL

AJG

Initial Issue

25/03/25

REV

DRAWN

CHECK

REVISION COMMENTS

ISSUE DATE

DRAWING TITLE

Drainage Design

SHEET NO.
1/1

PROJECT

Barn Acre Cottage
Loddon Drive, Wargrave
Wokingham, RG10 8HN

CUSTOMER

Infrastruct CS Ltd

SCALE @ A1

1:100

0m 2.5m 5.0m

PROJECT NUMBER

6297

STATUS

S4

ISSUE PURPOSE

TECHNICAL APPROVAL

PROJECT ORIGIN

ICS

PHASE

01

LEVEL

XX

TYPE

DR

ROLE

C

NO.

0200

REVISION

P01

ENGINEER

APL

DRAFT

NJ

APPROVED

AJG

16

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16

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