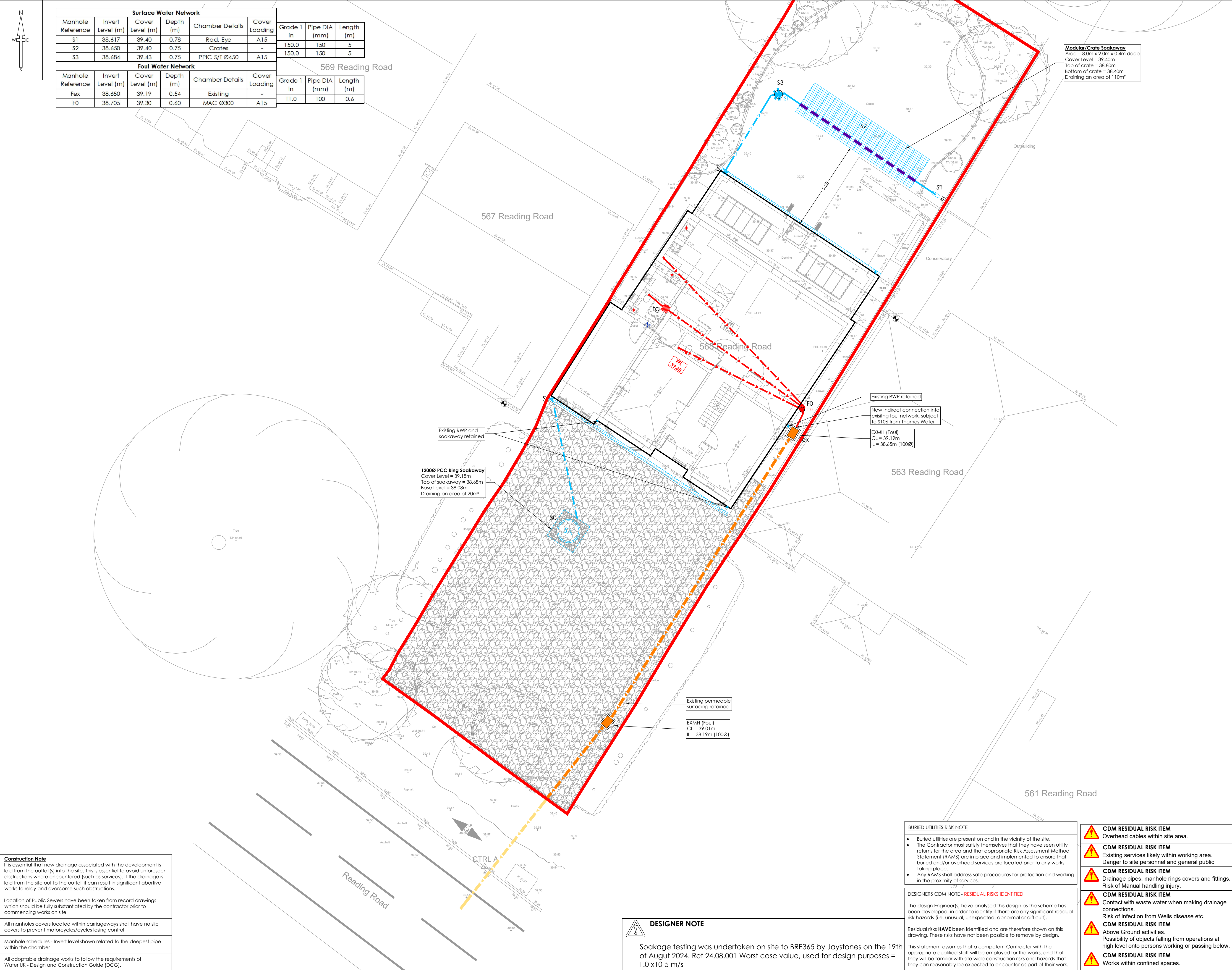




Surface Water Network					
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading
S1	38.617	39.40	0.78	Rod. Eye	A15
S2	38.650	39.40	0.75	Crates	-
S3	38.684	39.43	0.75	PPIC S/T Ø450	A15
Foul Water Network					
Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading
Fex	38.650	39.19	0.54	Existing	-
F0	38.705	39.30	0.60	MAC Ø300	A15

Grade 1 in	Pipe DIA (mm)	Length (m)
150.0	150	5
150.0	150	5

Grade 1 in	Pipe DIA (mm)	Length (m)
11.0	100	0.6

Modular/Crate Soakaway
Area = 8.0m x 2.0m x 0.4m deep
Cover Level = 39.40m
Top of crate = 38.80m
Bottom of crate = 38.40m
Draining an area of 110m²

- NOTES
1. All dimensions and levels are in metres unless otherwise noted
 2. This drawing is to be read in conjunction with the relevant Architect's/Engineer's drawings, specifications and CDM documentation
 3. 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.
 4. This drawing contains coloured lines / information that may not be clear if reproduced in black and white.
 5. Digital copies of this plan can only be considered accurate if supplied directly by Infrastruct CS Ltd.

Drainage Legend	
	Foul water drain (private/non adoptable)
	Surface water drain (private/non adoptable)
	Existing foul water drain (private/non adopted)
	Existing foul water sewer (Adopted)
Chambers Legend	
	Mini access chamber (mac) - 300mmØ
	Adoptable demarcation manhole within 1m of boundary
* 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)	
	Surface water rodding eye
	Rain water down pipe (roddable access)
	Soil vent pipe/soil stack
	Silt Trap (ST) with removable silt bucket
	Manhole reference number
	Floor gully (trapped)
	Surface water sump unit
	Linear drainage channel
	Cellular soakaway (refer to drawing for sizes)
	PCC Ring Soakaway
	Finished Floor Level (FFL)
	Existing permeable gravel driveway

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).

DESIGNER NOTE

Soakage testing was undertaken on site to BRE365 by Jaystones on the 19th of August 2024. Ref 24.08.001 Worst case value, used for design purposes = 1.0 x10-5 m/s

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.

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.

- CDM RESIDUAL RISK ITEM**
Overhead cables within site area.
- 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**
Contact with waste water when making drainage connections.
Risk of infection from Wells disease etc.
- 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.

P01	FM	RJW	Initial Issue	30/08/24
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
DRAWING TITLE Drainage Design				SHEET NO. 1
PROJECT 565 Reading Road, Winnersh, Wokingham, Berkshire, RG41 5HJ		CLIENT HIVES ARCHITECTS SINCE 1934 		
SCALE @ A1 1:100 PROJECT NUMBER 5954		STATUS \$4 ISSUE PURPOSE TECHNICAL APPROVAL		ENGINEER RJW DRAFT SNN APPROVED AJG
PROJECT 565R	ORIGIN ICS	PHASE 01	LEVEL XX	ROLE DR
NO. REVISION 0200		P01		