

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).

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.

- 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.

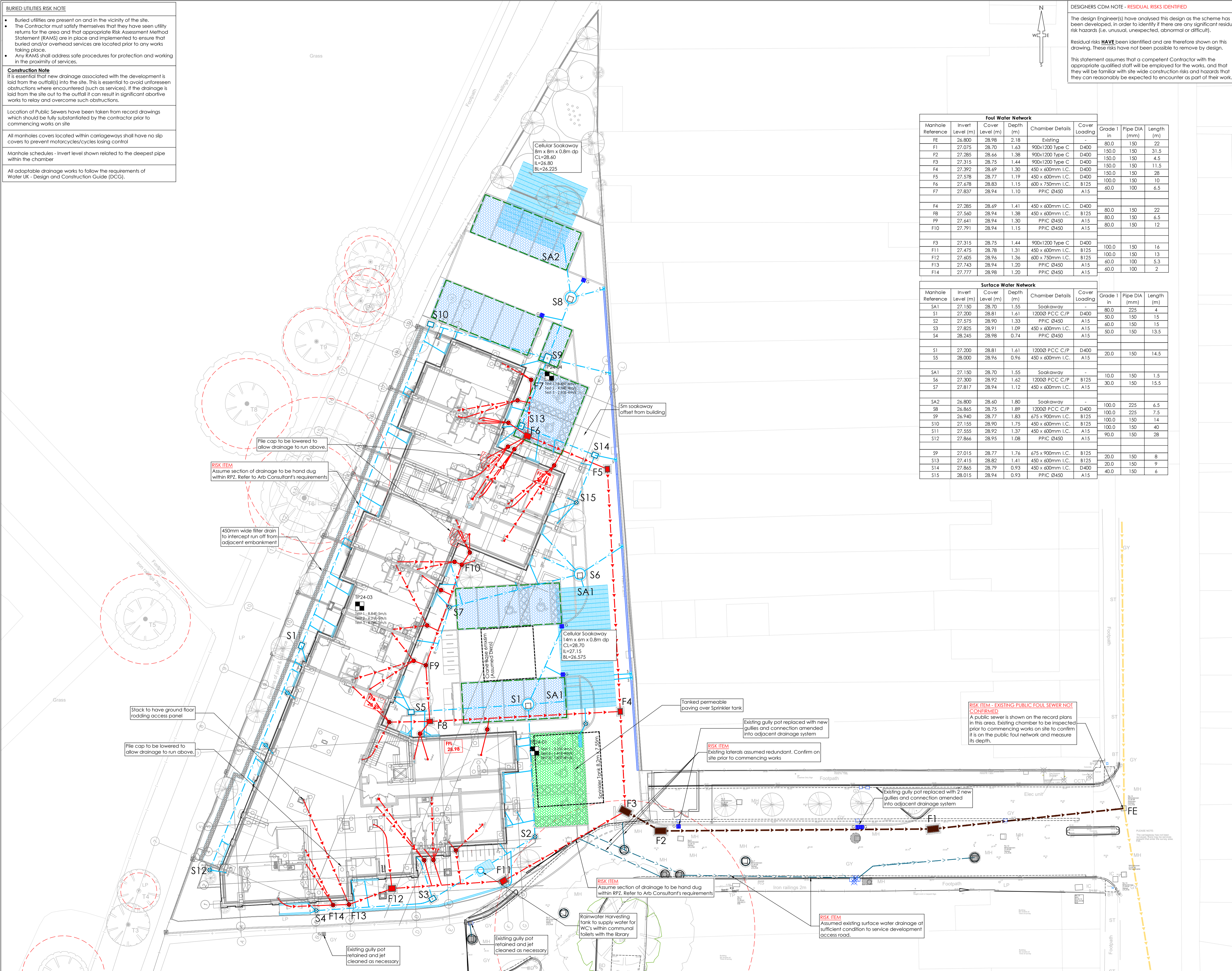
Foul Water Network

Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Grade 1 in	Pipe DIA (mm)	Length (m)
FE	26.800	28.98	2.18	Existing	-	80.0	150	22
F1	27.075	28.70	1.63	900x1200 Type C	D400	150.0	150	31.5
F2	27.285	28.66	1.38	900x1200 Type C	D400	150.0	150	4.5
F3	27.315	28.75	1.44	900x1200 Type C	D400	150.0	150	11.5
F4	27.392	28.69	1.30	450 x 600mm I.C.	D400	150.0	150	11.5
F5	27.578	28.77	1.19	450 x 600mm I.C.	D400	150.0	150	28
F6	27.678	28.83	1.15	600 x 750mm I.C.	B125	100.0	150	10
F7	27.837	28.94	1.10	PPIC Ø450	A15	60.0	100	6.5
F8	27.285	28.69	1.41	450 x 600mm I.C.	D400	80.0	150	22
F9	27.560	28.94	1.38	450 x 600mm I.C.	B125	80.0	150	6.5
F10	27.641	28.94	1.30	PPIC Ø450	A15	80.0	150	12
F11	27.791	28.94	1.15	PPIC Ø450	A15	80.0	150	12
F12	27.315	28.75	1.44	900x1200 Type C	D400	100.0	150	16
F13	27.475	28.78	1.31	450 x 600mm I.C.	B125	100.0	150	13
F14	27.405	28.96	1.36	600 x 750mm I.C.	B125	60.0	100	5.3
F15	27.743	28.94	1.20	PPIC Ø450	A15	60.0	100	2
F16	27.777	28.98	1.20	PPIC Ø450	A15	60.0	100	2

Surface Water Network

Manhole Reference	Invert Level (m)	Cover Level (m)	Depth (m)	Chamber Details	Cover Loading	Grade 1 in	Pipe DIA (mm)	Length (m)
SA1	27.150	28.70	1.55	Soakaway	-	80.0	225	4
S1	27.200	28.81	1.61	1200Ø PCC C/P	D400	50.0	150	15
S2	27.575	28.90	1.33	PPIC Ø450	A15	60.0	150	15
S3	27.825	28.91	1.09	450 x 600mm I.C.	A15	50.0	150	13.5
S4	28.245	28.98	0.74	PPIC Ø450	A15	20.0	150	14.5
S5	27.200	28.81	1.61	1200Ø PCC C/P	D400	100.0	150	14.5
S6	27.300	28.92	1.62	1200Ø PCC C/P	B125	30.0	150	15.5
S7	27.817	28.94	1.12	450 x 600mm I.C.	A15	100.0	225	6.5
S8	26.865	28.75	1.89	1200Ø PCC C/P	D400	100.0	225	7.5
S9	26.940	28.77	1.83	675 x 900mm I.C.	B125	100.0	150	14
S10	27.155	28.90	1.75	450 x 600mm I.C.	B125	100.0	150	40
S11	27.555	28.92	1.37	450 x 600mm I.C.	A15	90.0	150	28
S12	27.866	28.95	1.08	PPIC Ø450	A15	20.0	150	8
S13	27.015	28.77	1.76	675 x 900mm I.C.	B125	20.0	150	9
S14	27.415	28.82	1.41	450 x 600mm I.C.	B125	40.0	150	6
S15	27.865	28.79	0.93	450 x 600mm I.C.	D400	40.0	150	6
S16	28.015	28.94	0.93	PPIC Ø450	A15	40.0	150	6

- Drainage Key**
- Sewers**
- Foul water drain (private/non adoptable)
 - Surface water drain (private/non adoptable)
 - Existing foul water drain (private/non adoptable)
 - Existing surface water drain (private/non adoptable)
 - Existing foul water sewer (Adopted)
- Chamber Key**
- FW/SW**
- PPIC - 475mmØ*
 - P.C.C. units/brick*
 - Manhole
Depth: 1.25m to 1.5m*
Depth: 1.55m to 3.0m*
- * 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)
- Rain water down pipe (roddable access)
 - Soil vent pipe/soil stack
 - S1/F1 Manhole reference number
 - Road gully (trapped) D400
 - Floor gully (trapped)
 - Surface water sump unit
 - Linear drainage channel - A15 Rating (Light duty)
 - Linear drainage channel - D400 Rating (heavy duty)
 - Cellular storage (refer to drawing for sizes)
 - RWP cellular discharge/collection unit (DU) (Permavoid or similar)
 - Tree root protection zone (RPZ)
 - Impervious barrier to stop lateral movement of water
 - Finished Floor Level (FFL)
 - Block paving - permeable
 - Block paving - permeable (tanked)



REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
P04	NJ	TST	Internal drainage locations amended	25/02/25
P03	SNJ	TST	Drainage updated following client comments and crane base location	14/01/25
P02	NJ	TST	Tanked permeable paving added over sprinkler tank	19/12/24
P01	NJ	TST	Initial issue	12/12/24

Drainage Design SHEET NO. 1/1

PROJECT
Offerfield Road
West Drayton
Uxbridge, UB7 8EY

CLIENT

SCALE @ A1
1:200

ICS PROJECT NO. 5895

STATUS S4

ISSUE PURPOSE TECHNICAL APPROVAL

BUGLER NO. 1261

ORIGIN ICS

VOLUME XX

LEVEL XX

TYPE DR

ROLE C

NO. 0200

REVISION P04

ENGINEER TST

DRAFT NJ

APPROVED TST