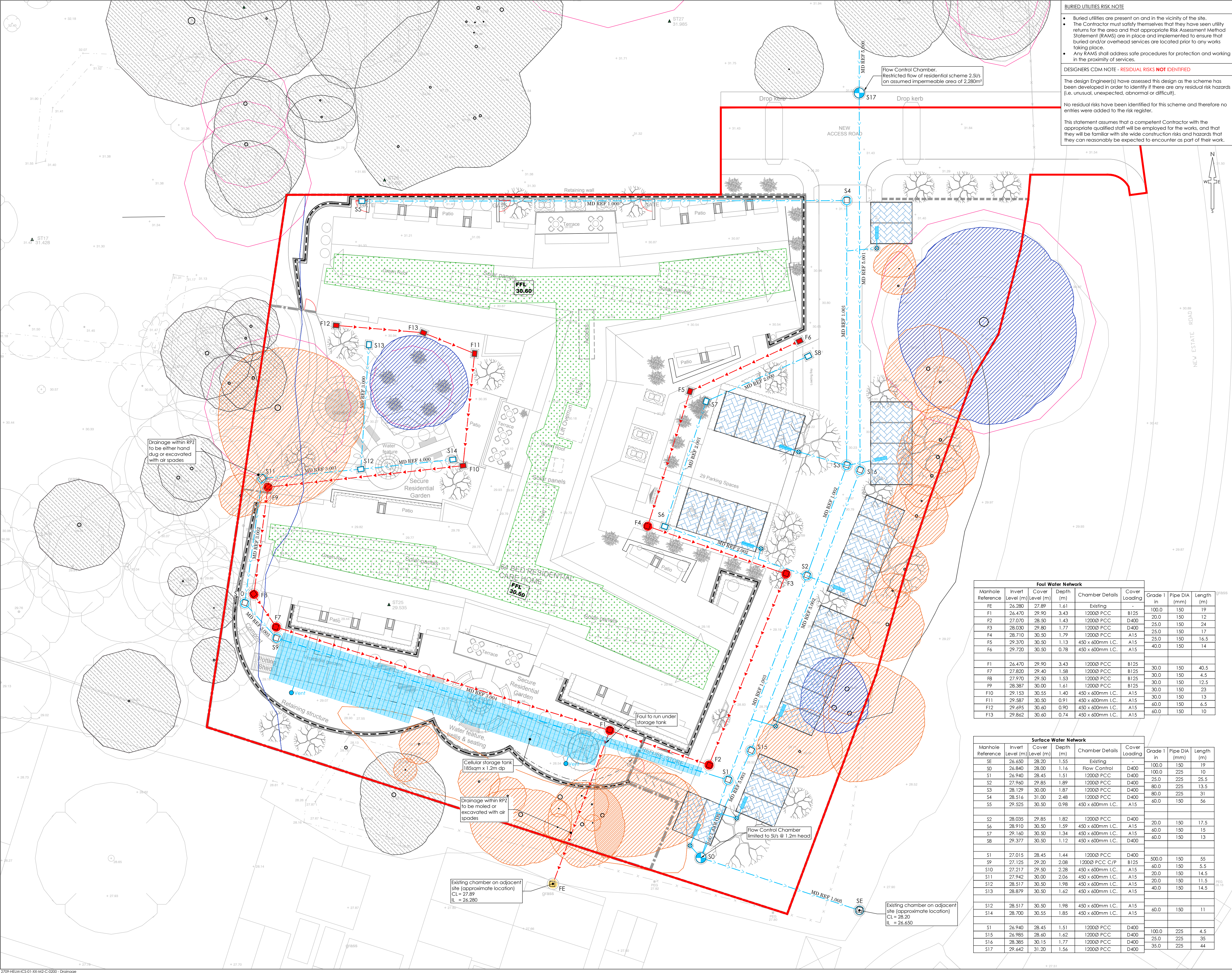




BURIED UTILITIES RISK NOTE

- 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 NOT IDENTIFIED

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

No residual risks have been identified for this scheme and therefore no entries were added to the risk register.

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.

Survey: 170452
Site Plan: M9437 APL003 G

Rec'd: 08.05.2018
Rec'd: 28.07.2020

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 drawings has been produced electronically and may have been photo reduced or enlarged when copied. Work to figured dimensions only (DO NOT SCALE). 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.

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

Drainage Key

Sewers

	Foul water drain (private/non adoptable)
	Surface water drain (private/non adoptable)
	Foul water sewer (Adoptable)
	Surface water sewer (Adoptable)
	Existing foul water drain (private/non adopted)
	Existing surface water drain (private/non adopted)
	Existing foul water sewer (Adopted)
	Existing surface water sewer (Adopted)

Chamber Key

FW/SW

	Mini access chamber (mac) - 300mmØ
	PPIC - 475mmØ*
	P.C.C. units/brick*
	Adoptable demarcation manhole within 1m of boundary
	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/site of incoming pipes)

	Rain water down pipe (roddable access)
	Soil vent pipe/soil stack
	Manhole reference number
	1.000
	Micro drainage reference
	Cellular storage (refer to drawing for sizes)
	Finished Floor Level (FFL)
	Bio-diverse Roof Area
	Area of tanked permeable paving

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	26.280	27.89	1.61	Existing	-	100.0	150	19
F1	26.470	29.90	3.43	1200Ø PCC	B125	20.0	150	12
F2	27.070	28.50	1.43	1200Ø PCC	D400	25.0	150	24
F3	28.030	29.80	1.77	1200Ø PCC	D400	25.0	150	17
F4	28.710	30.50	1.79	1200Ø PCC	A15	25.0	150	16.5
F5	29.370	30.50	1.13	450 x 600mm I.C.	A15	40.0	150	14
F6	29.720	30.50	0.78	450 x 600mm I.C.	A15	40.0	150	14
F7	27.820	29.40	1.58	1200Ø PCC	B125	30.0	150	40.5
F8	27.970	29.50	1.53	1200Ø PCC	B125	30.0	150	4.5
F9	28.387	30.00	1.61	1200Ø PCC	B125	30.0	150	12.5
F10	29.153	30.55	1.40	450 x 600mm I.C.	A15	30.0	150	23
F11	29.587	30.50	0.91	450 x 600mm I.C.	A15	30.0	150	13
F12	29.695	30.60	0.90	450 x 600mm I.C.	A15	40.0	150	6.5
F13	29.862	30.60	0.74	450 x 600mm I.C.	A15	60.0	150	10

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)
SE	26.650	28.20	1.55	Existing	-	100.0	150	19
S0	26.840	28.00	1.16	Flow Control	D400	100.0	225	10
S1	26.940	28.45	1.51	1200Ø PCC	D400	25.0	225	25.5
S2	27.960	29.85	1.89	1200Ø PCC	D400	80.0	225	13.5
S3	28.129	30.00	1.87	1200Ø PCC	D400	80.0	225	31
S4	28.516	31.00	2.48	1200Ø PCC	D400	60.0	150	56
S5	29.525	30.50	0.98	450 x 600mm I.C.	A15	20.0	150	17.5
S6	28.035	29.85	1.82	1200Ø PCC	D400	60.0	150	15
S7	28.910	30.50	1.59	450 x 600mm I.C.	A15	60.0	150	13
S8	29.160	30.50	1.34	450 x 600mm I.C.	A15	60.0	150	13
S9	29.377	30.50	1.12	450 x 600mm I.C.	D400	500.0	150	55
S10	27.125	29.20	2.08	1200Ø PCC C/P	B125	60.0	150	5.5
S11	27.217	29.50	2.28	450 x 600mm I.C.	A15	20.0	150	14.5
S12	27.942	30.00	2.06	450 x 600mm I.C.	A15	20.0	150	11.5
S13	28.517	30.50	1.98	450 x 600mm I.C.	A15	40.0	150	14.5
S14	28.879	30.50	1.62	450 x 600mm I.C.	A15	60.0	150	11
S15	28.517	30.50	1.98	450 x 600mm I.C.	A15	100.0	225	4.5
S16	26.985	28.60	1.62	1200Ø PCC	D400	25.0	225	35
S17	29.642	31.20	1.56	1200Ø PCC	D400	35.0	225	44

P04	NJ	TST	Amended layout loaded	13/08/20
P03	NJ	TST	Drainage design amended in line with revised proposed site layout	17/06/20
P02	NJ	TST	Drainage amended	19/12/19
P01	NJ	TST	Initial issue	17/12/19
REV	DRAWN	CHECK	REVISION COMMENTS	ISSUE DATE
DRAWING TITLE				SHEET NO.
Proposed Drainage				1/1
PROJECT				
Helmsley House Bartons Road				
CLIENT				
Brackley Investments Ltd				
Infrastruct CS Ltd				
SCALE @ A1				
1:500				
PROJECT NUMBER				
2709				
STATUS				
S2				
ISSUE PURPOSE				
INFORMATION				
PROJECT				
HELM				
ICIS				
01				
LEVEL				
XX				
TYPE				
DR				
ROLE				
C				
NO.				
0200				
REVISION				
P04				