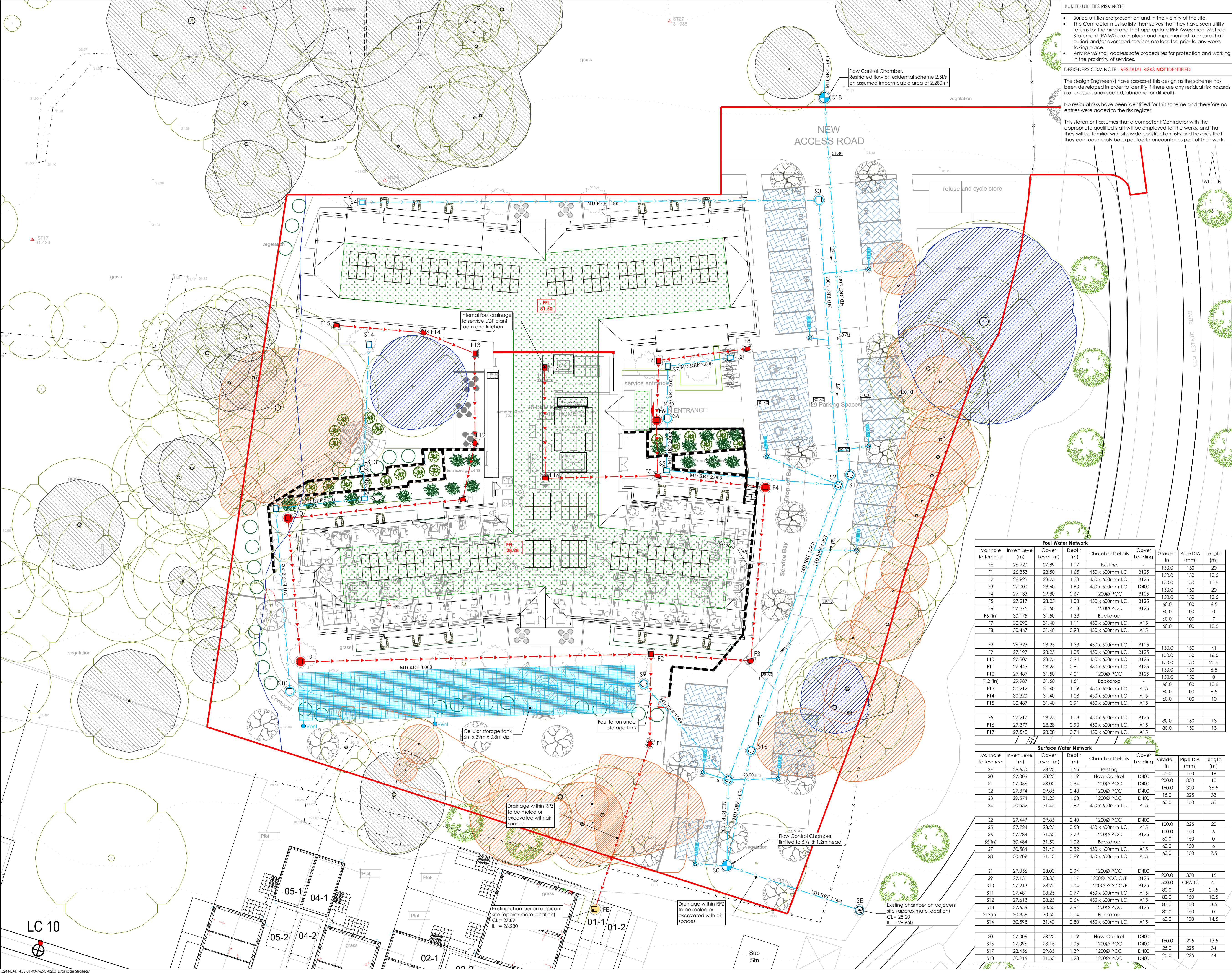




BURIED UTILITIES RISK NOTE

- 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.

- 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 outfalls(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 above 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/size of incoming pipes)

- Rain water down pipe (roddable access)
- Soil vent pipe/soil stack
- S1/F1
1.000
Micro drainage reference
- Cellular storage (refer to drawing for sizes)
- Finished Floor Level (FFL)
XX.XX
- 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)
F1	26.720	27.89	1.17	Existing	B125	150.0 150 20
F2	26.923	28.25	1.33	450 x 600mm I.C.	B125	150.0 150 10.5
F3	27.000	28.60	1.60	450 x 600mm I.C.	D400	150.0 150 11.5
F4	27.133	29.80	2.67	1200Ø PCC	B125	150.0 150 20
F5	27.217	28.25	1.03	450 x 600mm I.C.	B125	150.0 150 12.5
F6	27.375	31.50	4.13	1200Ø PCC	B125	60.0 100 6.5
F6 (in)	30.175	31.50	1.33	Backdrop	-	60.0 100 0
F7	30.292	31.40	1.11	450 x 600mm I.C.	A15	60.0 100 7
F8	30.467	31.40	0.93	450 x 600mm I.C.	A15	60.0 100 10.5

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	D400	45.0 150 16
S0	27.006	28.20	1.19	Flow Control	D400	200.0 300 10
S1	27.056	28.00	0.94	1200Ø PCC	D400	150.0 300 36.5
S2	27.374	29.85	2.48	1200Ø PCC	D400	15.0 225 33
S3	29.574	31.20	1.63	1200Ø PCC	D400	60.0 150 53
S4	30.532	31.45	0.92	450 x 600mm I.C.	A15	60.0 100 14.5

S2	27.449	29.85	2.40	1200Ø PCC	D400	100.0 225 20
S5	27.724	28.25	0.53	450 x 600mm I.C.	A15	100.0 150 6
S6	27.784	31.50	3.72	1200Ø PCC	B125	60.0 150 0
S6(in)	30.484	31.50	1.02	Backdrop	-	60.0 150 6
S7	30.584	31.40	0.82	450 x 600mm I.C.	A15	60.0 150 6
S8	30.709	31.40	0.69	450 x 600mm I.C.	A15	60.0 150 7.5

S1	27.056	28.00	0.94	1200Ø PCC	D400	200.0 300 15
S9	27.131	28.30	1.17	1200Ø PCC C/P	B125	500.0 CRATES 41
S10	27.213	28.25	1.04	1200Ø PCC C/P	B125	80.0 150 21.5
S11	27.481	28.25	0.77	450 x 600mm I.C.	A15	80.0 150 10.5
S12	27.613	28.25	0.64	450 x 600mm I.C.	A15	80.0 150 3.5
S13	27.656	30.50	2.84	1200Ø PCC	B125	80.0 150 0
S13(in)	30.356	30.50	0.14	Backdrop	-	60.0 100 14.5
S14	30.598	31.40	0.80	450 x 600mm I.C.	A15	60.0 100 14.5

S0	27.006	28.20	1.19	Flow Control	D400	150.0 225 13.5
S16	27.094	28.15	1.05	1200Ø PCC	D400	25.0 225 34
S17	28.456	29.85	1.39	1200Ø PCC	D400	25.0 225 44
S18	30.216	31.50	1.28	1200Ø PCC	D400	25.0 225 44