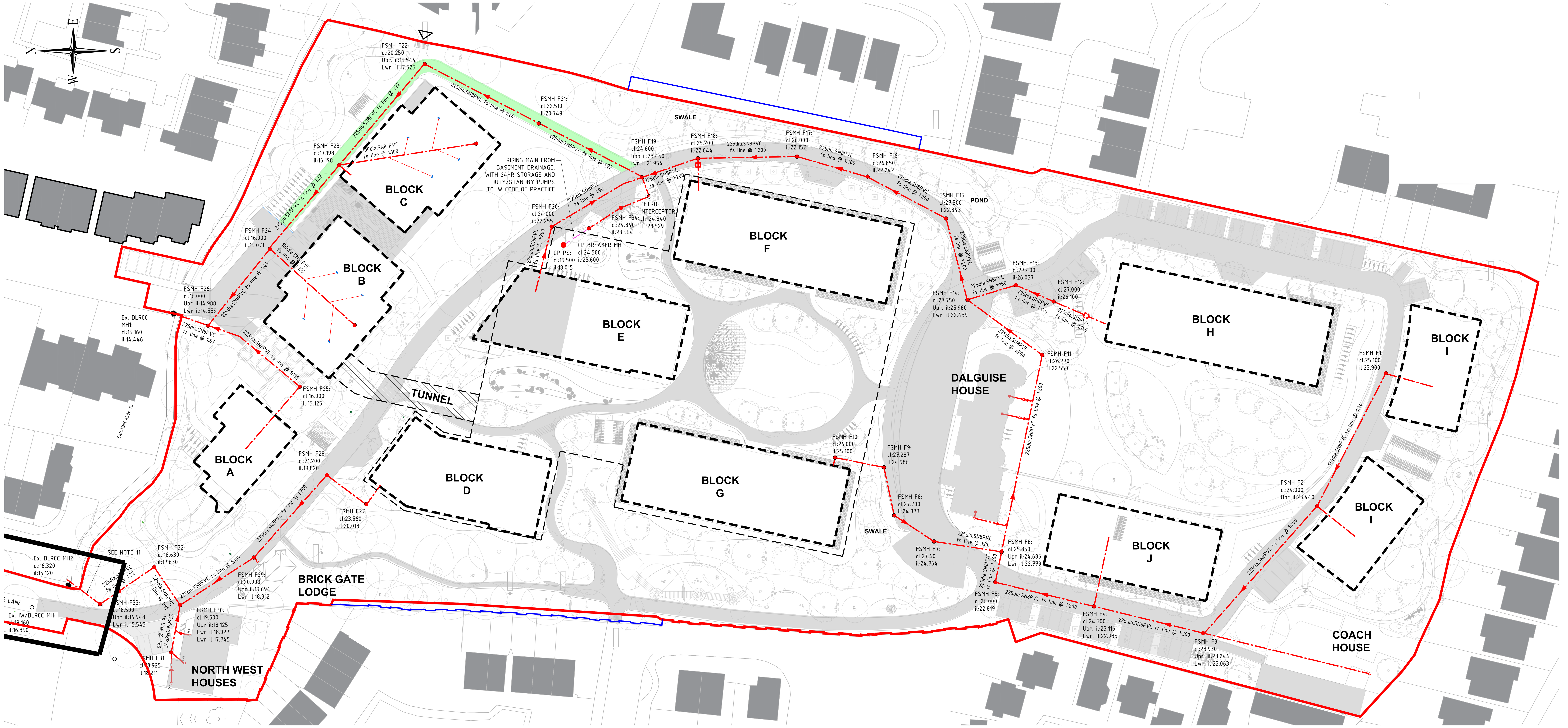
A1



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHER NOTED
2. ALL LEVELS ARE IN METERS AND RELATE TO THE ORDANCE SURVEY DATUM.
3. FOR LONGSECTION CHAINAGE & LEVELS, REFER TO DWG NO. W3683-DR-1024.
4. FULL DETAIL OF TUNNEL AND SERVICES CO-ORDINATION TO BE PROVIDED WITH FULL PLANNING PERMISSION.
5. ALL PIPE DETAILS SHALL BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER STANDARD DETAILS.
6. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01.
7. PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
8. SHOULD PIPES HAVE MINIMUM COVER OF LESS THAN 800mm, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL.
9. ALL WORKS OUTSIDE OF THE BOUNDARY ARE TO BE CARRIED OUT BY IRISH WATER.
10. WHERE SEPARATION DISTANCE BETWEEN PIPE CROSSINGS ARE LESS THAN 300mm CONCRETE SURROUND IS TO BE PROVIDED IN ACCORDANCE WITH STD-WW-08 OF IRISH WATER CODE OF PRACTICE.
11. GIVEN THE PROXIMITY OF TREES, FOR TREE ROOT PROTECTION, TRENCHLESS ACTIVITIES TO BE CONSIDERED BY CONTRACTOR.
12. THE DESIGN HAS ACCOUNTED FOR SITE SPECIFIC GROUND CONDITIONS, IDENTIFIED FROM THE IGSL GROUND INVESTIGATION REPORT, MAY 2022.
13. WHERE MANHOLE COVERS ARE TO BE LOCATED IN SOFT LANDSCAPED/GRASS AREAS; TO ENSURE THAT MANHOLE COVERS ARE IDENTIFIABLE, ACCESSIBLE & WILL NOT BECOME OVERGROWN, COVERS ARE TO BE SURROUNDED BY A CONCRETE PLINTH, 200mm ALL ROUND AND 100mm DEEP FORMED WITH C20/25 CONCRETE, 20mm AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL.
14. ALL MANHOLES TO BE A MINIMUM DISTANCE OF 500mm OFF THE KERB LINES AND 1m FOR THE SEWER WALL.
15. THE DESIGN IS BASED ON IW REQUIREMENTS SET OUT IN THE DOCUMENT IW-CDS-5030-03 COP FOR WASTE WATER INFRASTRUCTURE

LEGEND:

INDICATES EXTENT OF APPLICATION SITE AREA WITHIN APPLICATION

INDICATES ADJACENT SITE IN OWNERSHIP OF APPLICANT

OUTLINE OF PROPOSED BUILDINGS

OUTLINE OF U/G EXCAVATION

RISING MAIN

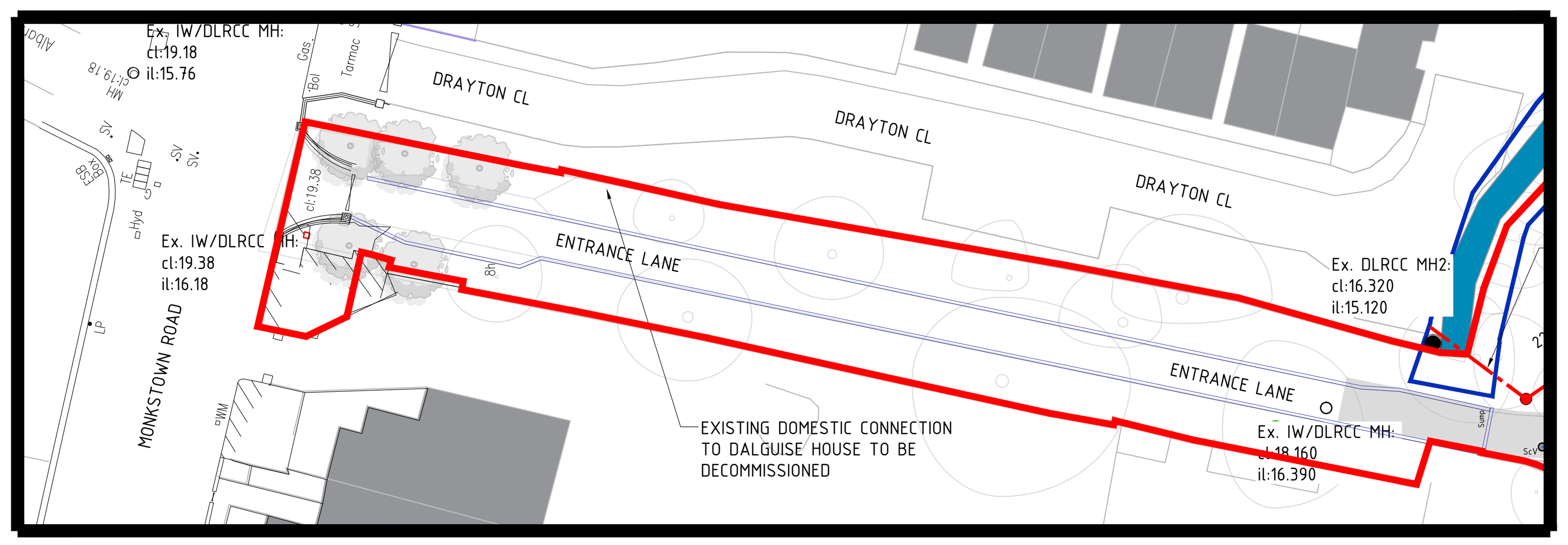
GREEN/BLUE ROOF

PAVING

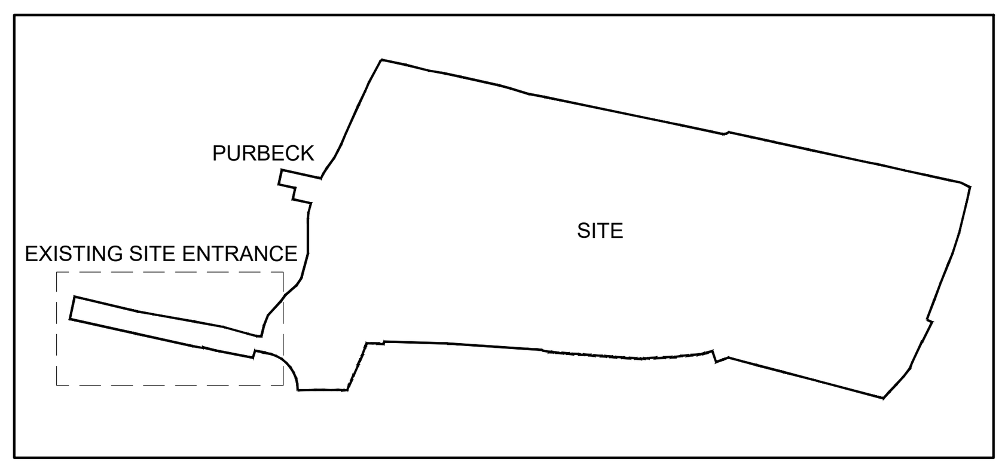
ATS-NETLON OR SIMILAR APPROVED EMERGENCY ACCESS

PROPOSED UTILITIES PLAN

SCALE: 1:500



EXISTING SITE ENTRANCE



KEYPLAN

PROPOSED UTILITIES LEGEND

EXISTING FOUL MANHOLE — Existing FS MH

EXISTING GRAVITY MAIN (COMBINED) — PIPE DESCRIPTION

EXISTING GRAVITY MAIN (FOUL) — PIPE DESCRIPTION

NEW FOUL MANHOLE — FS MH

NEW FOUL PIPE — PIPE DESCRIPTION

PROPOSED FOUL PIPES

IDENTITY	US NODE	DS NODE	LENGTH (m)	US IL (m)	DS IL (m)	FALL (m)	DROP IL (m)	SLOPE (1/X)	DIA. (mm)	US DEPTH (m)	DS DEPTH (m)
F1.000	FSMH-F1	FSMH-F2	33.950	23.900	23.440	0.4600	0.0000	1:74	150	1.0500	0.3350
F1.001	FSMH-F2	FSMH-F3	39.185	23.440	23.224	0.2160		1:200	225	0.3350	0.0010
F1.002	FSMH-F3	FSMH-F4	25.625	23.063	22.935	0.1280		1:200	225	0.1620	1.3400
F1.003	FSMH-F4	FSMH-F5	23.218	22.935	22.819	0.1160		1:200	225	1.3400	2.9560
F1.004	FSMH-F5	FSMH-F6	7.105	22.819	22.779	0.0400		1:200	225	2.9560	2.8460
F1.010	FSMH-F6	FSMH-F11	45.895	22.779	22.550	0.2290		1:200	225	2.8460	3.9950
F1.014	FSMH-F11	FSMH-F14	22.235	22.550	22.439	0.1110		1:200	225	3.9950	5.0860
F1.015	FSMH-F14	FSMH-F15	19.208	22.439	22.343	0.0960		1:200	225	5.0860	4.9320
F1.016	FSMH-F15	FSMH-F16	20.169	22.343	22.242	0.1010		1:200	225	4.9320	4.3830
F1.017	FSMH-F16	FSMH-F17	17.059	22.242	22.157	0.0850		1:200	225	4.3830	3.6180
F1.018	FSMH-F17	FSMH-F18	21.490	22.157	22.044	0.1130		1:200	225	3.6180	2.9310
F1.019	FSMH-F18	FSMH-F19	16.438	22.044	21.954	0.0900		1:200	225	2.9310	2.3710
F1.021	FSMH-F19	FSMH-F21	26.500	21.954	20.749	1.2050		1:22	225	2.4210	3.0260
F1.020	FSMH-F20	FSMH-F19	23.951	22.255	21.954	0.3010		1:90	225	2.1200	1.8210
F1.022	FSMH-F21	FSMH-F22	29.457	20.749	19.544	1.2050	1.2050	1:22	225	1.5460	0.4810
F1.023	FSMH-F22	FSMH-F23	30.262	17.525	16.198	1.3270		1:22	225	1.1020	0.7750
F1.024	FSMH-F23	FSMH-F24	24.621	16.198	15.071	1.1270		1:200	225	0.7750	0.7040
F1.025	FSMH-F24	FSMH-F26	21.266	15.071	14.559	0.5120		1:200	225	0.7040	1.2160
F1.027	FSMH-F26	DLRCC MH1	15.913	14.559	14.446	0.1130		1:40	225	1.2160	0.4890
F1.026	FSMH-F25	FSMH-F26	17.897	15.125	14.988	0.1370	0.4290	1:130	225	0.6500	0.7870
F2.000	CP - Breaker	FSMH-F34	7.193	23.600	23.564	0.0360		1:200	225	0.6750	1.0510
F2.001	FSMH-F34	PI	7.066	23.564	23.529	0.0350		1:200	225	1.0510	1.0860
F2.002	PI	FSMH-F19	4.735	23.529	23.450	0.0790		1:200	225	1.0860	0.9250
F3.000	FSMH-F10	FSMH-F9	11.393	25.100	24.986	0.1140		1:100	225	0.6750	2.0760
F3.001	FSMH-F9	FSMH-F8	11.221	24.986	24.873	0.1130		1:100	225	2.0760	2.6020
F3.002	FSMH-F8	FSMH-F7	10.877	24.873	24.764	0.1090		1:100	225	2.6020	2.4110
F3.003	FSMH-F7	FSMH-F6	15.599	24.764	24.686	0.0780		1:200	225	2.4110	0.9390
F4.000	FSMH-F12	FSMH-F13	9.395	26.100	26.037	0.0630	0.0000	1:150	225	0.6750	1.1380
F4.001	FSMH-F13	FSMH-F14	11.539	26.037	25.960	0.0770		1:150	225	1.1380	1.5650
F5.000	FSMH-F27	FSMH-F28	11.578	20.013	19.820	0.1930		1:60	225	3.7620	2.9550
F5.001	FSMH-F28	FSMH-F29	25.237	19.820	19.694	0.1260		1:200	225	2.9550	1.8810
F5.002	FSMH-F29	FSMH-F30	20.000	18.312	18.125	0.1870	0.0000	1:107	225	0.3880	1.1500
F5.003	FSMH-F30	FSMH-F32	10.500	17.745	17.630	0.1150	0.3800	1:91	225	1.5300	0.7750
F7.001	FSMH-F32	FSMH-F33	15.000	17.630	16.948	0.6820	1.4050	1:22	225	0.7750	1.3270
F7.002	FSMH-F33	DLRCC MH2	9.316	15.543	15.120	0.4230		1:22	225	2.7320	0.9750
F8.000	FSMH-F31	FSMH-F30	11.000	18.211	18.027	0.1840		1:60	225	0.0640	-1.9320

PROPOSED FOUL MANHOLE

IDENTITY	COVER LEVEL	DIA. (mm)	EASTING	NORTHING	DEPTH (m)
FSMH-F1	25.100	1200	-	-	1.630
FSMH-F2	24.000	1200	-	-	2.155
FSMH-F3	23.930	1200	-	-	1.800
FSMH-F4	24.500	1200	-	-	2.978
FSMH-F5	26.000	1200/1800	-	-	4.595
FSMH-F6	25.850	1200/1800	-	-	4.480
FSMH-F11	26.770	1200/1800	-	-	5.670
FSMH-F14	27.750	1200/1800	-	-	6.782
FSMH-F15	27.500	1200/1800	-	-	6.635
FSMH-F16	26.850	1200/1800	-	-	6.114
FSMH-F17	26.000	1200/1800	-	-	5.364
FSMH-F18	25.200	1200/1800	-	-	4.698
FSMH-F19	24.550	1200/1800	-	-	4.154
FSMH-F20	23.000	1200	-	-	2.825
FSMH-F19	21.800	1200	-	-	1.905
FSMH-F22	21.200	1200	-	-	1.527
FSMH-F23	20.900	1200	-	-	2.588
FSMH-F24	19.500	1200	-	-	1.755
FSMH-F26	18.630	1200	-	-	2.855
FSMH-F27	18.500	1200/1800	-	-	4.390
DLRCC MH2	16.320	EX.	-	-	2.540
FSMH-F7	27.400	1200/1800	-	-	2.636
FSMH-F8	27.700	1200	-	-	2.827
FSMH-F9	27.287	1200	-	-	2.301
FSMH-F10	26.000	1050	-	-	0.9
FSMH-F12	27.000	1200	-	-	1.363
FSMH-F13	27.400	1200/1800	-	-	0.900
FSMH-F27	23.560	1200	-	-	3.547
FSMH-F28	21.200	1200/1800	-	-	1.380
FSMH-F29	20.900	1200	-	-	2.588
FSMH-F30	19.500	1200	-	-	1.755
FSMH-F31	18.925	1200	-	-	0.714
FSMH-F32	18.630	1200	-	-	1.000
FSMH-F33	18.500	1200	-	-	2.957
DLRCC MH1	15.160	EX.	-	-	1.650
FSMH-F34	24.840	1200	-	-	1.310

Rev	Date	Description	By	Chk	App
08	07/07/23	ISSUE FOR INFORMATION	SG	RT	AG
07	28/06/23	ISSUE FOR INFORMATION	SG	AG	MG
06	02/06/23	ISSUE FOR INFORMATION	SG	AG	MG
05	01/09/22	ISSUE FOR INFORMATION	LT	RT	AG
04	26/08/22	ISSUE FOR INFORMATION	LT	RT	AG
03	12/08/22	ISSUE FOR INFORMATION	LT	RT	AG
02	13/05/22	ISSUE FOR INFORMATION	LT	RT	AG
01	07/04/22	ISSUE FOR INFORMATION	LT	RT	AG
00	17/01/22	ISSUE FOR INFORMATION	LT	RT	AG

BYRNELOOBY

WWW.BYRNELOOBY.COM

IRELAND | UK | UAE | BAHRAIN | KSA

CLIENT
GEDV MONKSTOWN OWNER LIMITED

PROJECT
RESIDENTIAL DEVELOPMENT ON LANDS OF DALGUISE HOUSE

DRAWING TITLE
PROPOSED UTILITIES PLAN
FOUL DRAINAGE LAYOUT

STATUS
FOR INFORMATION

Date 17/01/22 | Scale AS SHOWN | Drawn: LT | Chk: RT | App: AG

Project No: W3683 | Drg. No: W3683-DR-1007 | Rev: 08