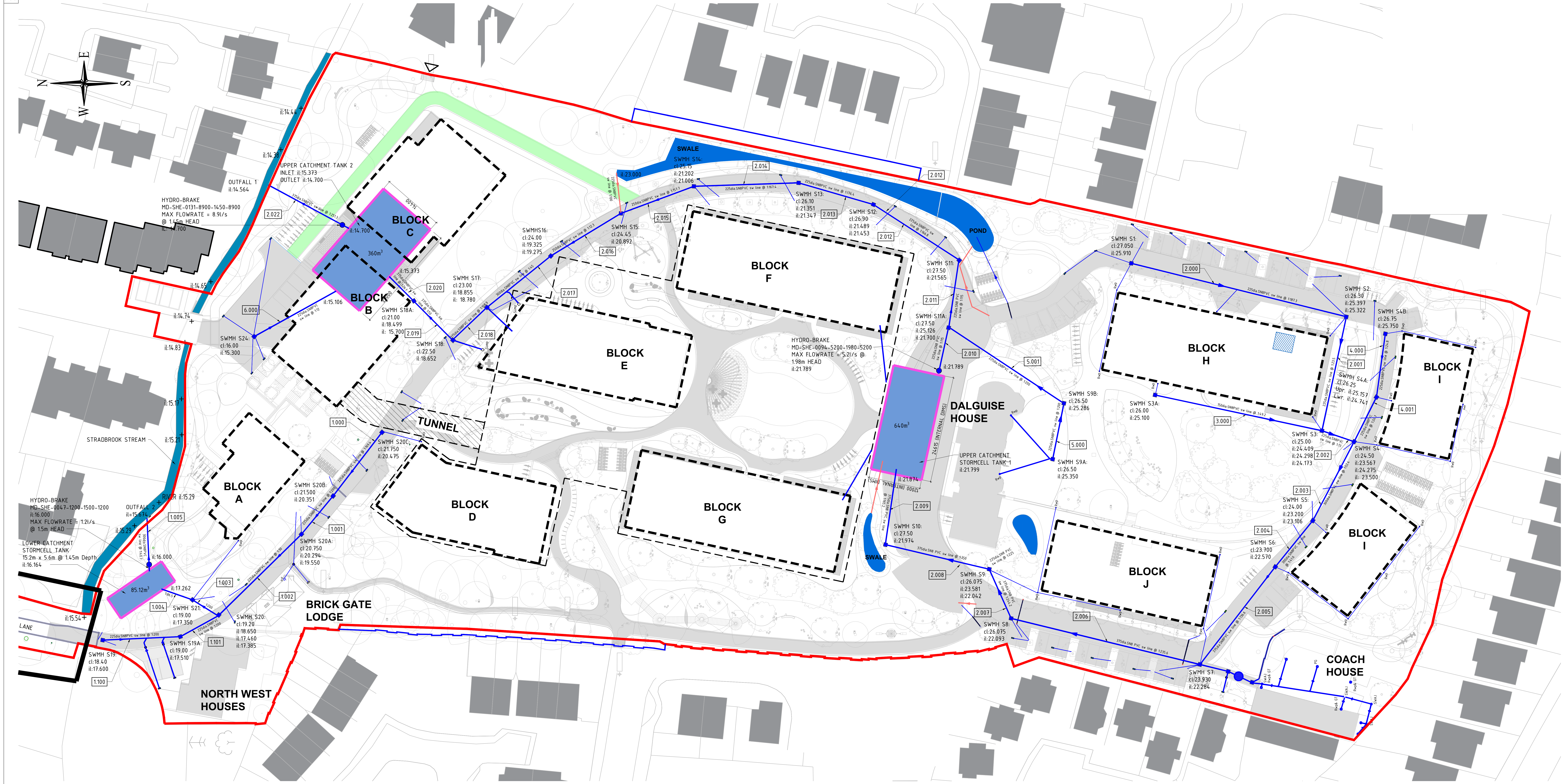
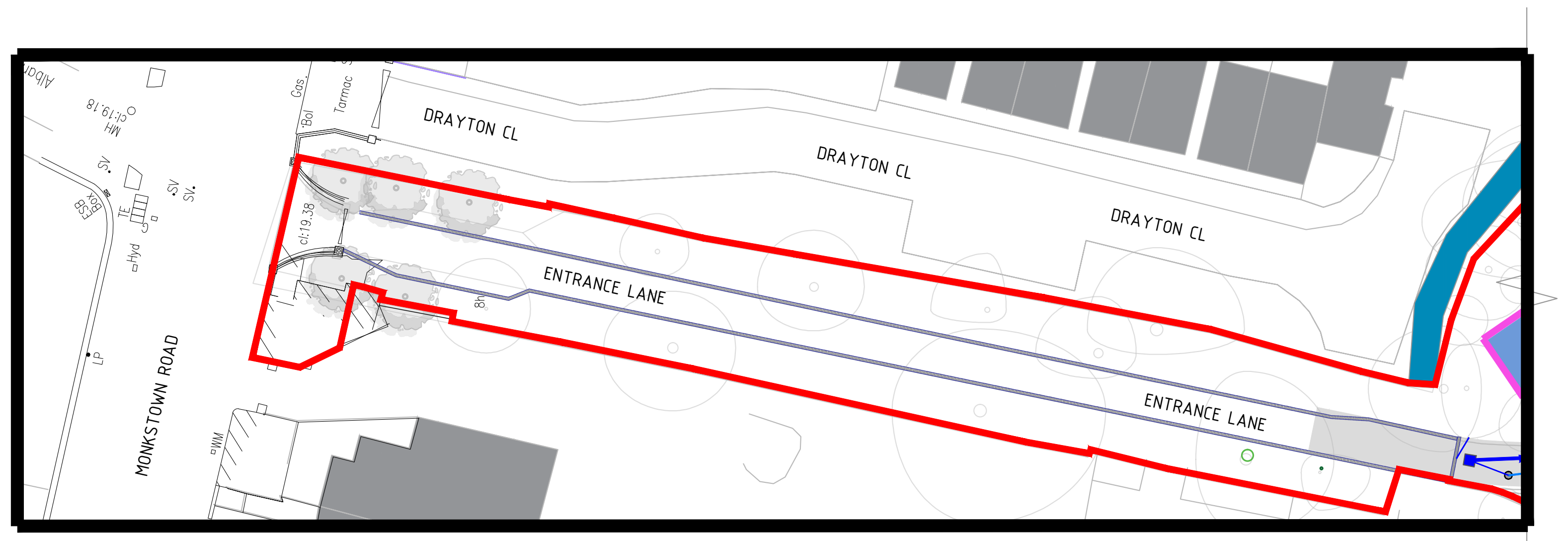
A1



PROPOSED UTILITIES PLAN

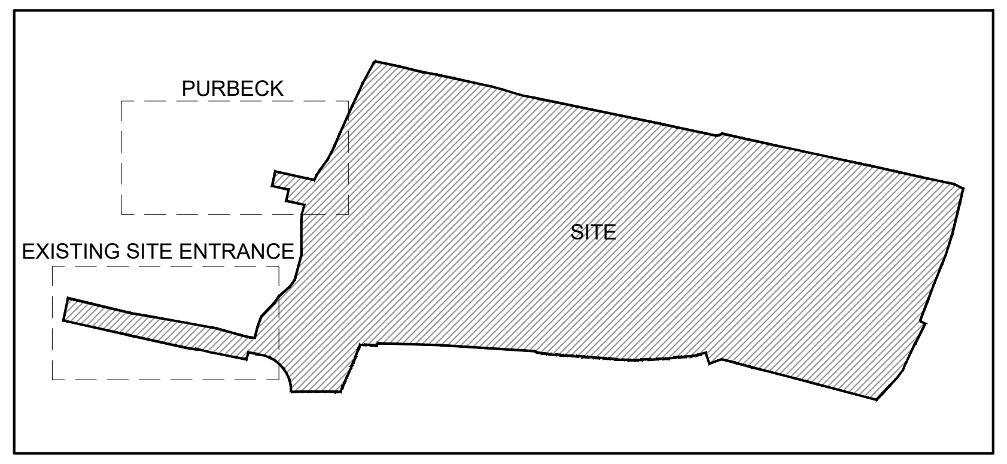
SCALE: 1:500



EXISTING SITE ENTRANCE

PROPOSED STORM MANHOLE					
IDENTITY	COVER LEVEL	DIA. (mm)	EASTING	NORTHING	DEPTH (m)
SWMH–S1	27.050	1200	–	–	1.140
SWMH–S2	26.300	1200	–	–	0.978
SWMH–S3	25.000	1200	–	–	0.827
SWMH–S4	24.500	1200	–	–	0.225
SWMH–S5	24.000	1200	–	–	0.827
SWMH–S6	23.700	1200	–	–	1.130
SWMH–S7	23.930	1200	–	–	1.646
SWMH–S8	26.075	1200/1800	–	–	3.982
SWMH–S9	26.075	1200/1800	–	–	4.033
SWMH–10	27.500	1200/1800	–	–	5.515
SWMH–S11	27.500	1200/1800	–	–	5.935
SWMH–S11A	27.500	1200/1800	–	–	5.800
SWMH–S12	26.900	1200/1800	–	–	5.447
SWMH–S13	26.100	1200/1800	–	–	4.753
SWMH–S14	25.150	1200/1800	–	–	4.144
SWMH–S15	24.450	1200/1800	–	–	3.558
SWMH–S17	23.000	1200	–	–	2.584
SWMH–S18	22.500	1200/1800	–	–	6.617
SWMH–S3A	26.000	1200	–	–	0.900
SWMH–S4B	26.750	1200	–	–	1.000
SWMH–S4A	25.250	1200	–	–	0.779
SWMH–S9B	26.500	1200	–	–	1.214
SWMH–S9A	26.500	1200	–	–	1.150
SWMH–S20C	21.700	1200	–	–	1.225
SWMH–S20B	20.700	1200	–	–	0.349
SWMH–S20A	20.150	1200	–	–	0.600
SWMH–S20	19.200	1200	–	–	1.815
SWMH–S21	19.000	1200	–	–	1.650
SWMH–S19	18.400	1200	–	–	0.800
SWMH–S19A	19.000	1200	–	–	1.490
SWMH–S24	16.000	1200	–	–	0.400
SWMH–S16	24.000	1200/1800	–	–	3.364
SWMH–S18A	21.000	1200	–	–	3.848

PROPOSED STORM 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)
2.000	SWMH–S1	SWMH–S2	51.311	25.910	25.322	0.5880	0.0000	1:87.3	225	0.9150	0.7530
2.001	SWMH–S2	SWMH–S3	27.008	25.322	24.173	1.1490		1:23.5	225	0.7530	0.6020
2.002	SWMH–S3	SWMH–S4	7.882	24.173	23.567	0.6060	0.0670	1:13	225	0.6020	0.7080
2.003	SWMH–S4	SWMH–S5	20.646	23.500	23.106	0.3940	0.0000	1:52.4	300	0.7000	0.5940
2.004	SWMH–S5	SWMH–S6	13.782	23.106	22.775	0.3310		1:41.6	300	0.5940	0.6250
2.005	SWMH–S6	SWMH–S7	28.777	22.570	22.359	0.2110		1:136.6	375	0.7550	1.1960
2.006	SWMH–S7	SWMH–S8	45.000	22.284	22.093	0.1910		1:235.6	375	1.2710	3.6070
2.007	SWMH–S8	SWMH–S9	12.454	22.093	22.042	0.0510	0.0000	1:244.2	375	3.6070	3.6580
2.008	SWMH–S9	SWMH–10	23.804	22.042	21.974	0.0680		1:350	375	3.6580	5.1510
2.009	SWMH–10	UC TANK 1	16.521	21.974	21.874	0.1000	0.0850	1:165.2	375	5.1510	4.5010
2.010	HYDRO BRAKE	SWMH–S11A	10.186	21.789	21.700	0.0890		1:115	225	4.7360	5.5750
2.011	SWMH–S11A	SWMH–S11	15.612	21.700	21.565	0.1350		1:115	225	4.8250	5.7100
2.012	SWMH–S11	SWMH–S12	12.679	21.565	21.489	0.0760		1:166.8	225	5.7100	5.1860
2.013	SWMH–S12	SWMH–S13	17.997	21.453	21.351	0.1020		1:176.4	225	5.2220	4.5240
2.014	SWMH–S13	SWMH–S14	24.270	21.347	21.202	0.1450	0.1960	1:167.4	225	4.5280	3.7230
2.015	SWMH–S14	SWMH–S15	17.975	21.006	20.892	0.1140		1:157.7	250	3.8940	3.3080
2.016	SWMH–S15	SWMH–S16	19.205	20.892	19.325	1.5670	0.0500	1:12.3	250	3.3080	4.4250
2.017	SWMH–S16	SWMH–S17	18.897	19.275	18.855	0.4200		1:45	300	4.4250	3.8450
2.018	SWMH–S17	SWMH–S18	13.940	18.780	18.652	0.1280	0.0000	1:108.9	375	3.8450	3.4730
2.019	SWMH–S18	SWMH–S18A	13.075	18.652	18.498	0.1540		1:84.9	375	3.4730	2.1270
2.020	SWMH–S18A	UC TANK 2	8.537	15.700	15.373	0.3270		1:26.1	450	4.8500	0.1770
2.022	UC TANK 2	OUTFALL 1	21.106	14.648	14.564	0.0840		1:251.3	450	0.9020	0.9860
3.000	SWMH–S3A	SWMH–S3	39.434	25.100	24.298	0.8020		1:50	150	0.7500	0.5520
4.000	SWMH–S4B	SWMH–S4A	14.682	25.750	25.157	0.5930		1:25	225	0.7750	0.8680
4.001	SWMH–S4A	SWMH–S4	11.499	24.741	24.275	0.4660		1:25	225	0.2840	0.0000
5.000	SWMH–S9A	SWMH–S9B	13.201	25.350	25.286	0.0640		1:200	225	0.9250	–1.0110
5.001	SWMH–S9B	SWMH–11A	31.926	25.286	25.126	0.1600		1:200	225	–1.0110	0.7240
6.000	SWMH–S24	UC TANK 2	21.682	15.300	15.106	0.1940		1:112	225	0.4750	0.6690
7.000	SWMH–S18B	UC TANK 2	14.634	15.300	15.154	0.1460		1:100.2	225	0.4750	0.6210
1.000	SWMH–S20C	SWMH–S20B	21.000	20.475	20.351	0.1240		1:169.4	225	1.0000	0.9240
1.001	SWMH–S20B	SWMH–S20A	11.500	20.351	20.294	0.0570	0.7440	1:200	225	0.1240	0.2310
1.002	SWMH–S20A	SWMH–S20	27.000	19.550	18.650	0.9000	1.2650	1:30	225	0.3750	0.3250
1.003	SWMH–S20	SWMH–S21	7.000	17.385	17.350	0.0350		1:200	300	1.5150	1.3500
1.004	SWMH–S21	LC TANK	7.611	17.350	17.262	0.0880	1.2620	1:86.5	300	1.3500	1.0680
1.005	LC TANK	OUTFALL 2	13.265	16.000	15.674	0.3260		1:40.7	300	2.3300	0.0260
1.100	SWMH–S19	SWMH–S19A	18.000	17.600	17.510	0.0900		1:200	225	0.5750	1.2650
1.101	SWMH–S19A	SWMH–S20	10.000	17.510	17.460	0.0500		1:200	225	1.2650	1.5150



KEYPLAN

PROPOSED UTILITIES LEGEND

EXISTING SURFACE WATER MANHOLE	☐ Ex. SW MH
EXISTING SURFACE WATER PIPE	PIPE DESCRIPTION ▶
NEW SURFACE WATER MANHOLE	■ SW MH
NEW SURFACE WATER PIPE	PIPE DESCRIPTION ▶
SURFACE ACCESS JUNCTION	◇ AJ
RAINWATER PIPE	○ RWP
ROAD GULLY	▥ RG
HYDRO-BRAKE MANHOLE	●
ACO DRAIN (TO MINIMISE EXCAVATIONS IN ROOT PROTECTION ZONE)	▭
NEW PERMEABLE PAVING PIPE	—

GENERAL NOTES

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–1025.
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. ROAD GULLIES WILL CONNECT INTO THE PROPOSED TREE PITS AND FILTER DRAINS AS SHOWN ON DWG W3683–DR–1018. FOR TREE PIT DETAILS SEE DWG W3683–DR–1030.

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

Rev	Date	Description	By	Chk	App
11	07/07/23	ISSUE FOR INFORMATION	SG	RT	AG
10	28/06/23	ISSUE FOR INFORMATION	SG	RT	AG
09	23/06/23	ISSUE FOR INFORMATION	SG	RT	AG
08	02/06/23	ISSUE FOR INFORMATION	SG	RT	AG
07	04/10/22	ISSUE FOR INFORMATION	LT	RT	AG
06	21/09/22	ISSUE FOR INFORMATION	LT	RT	AG
05	05/09/22	ISSUE FOR INFORMATION	LT	RT	AG
04	01/09/22	ISSUE FOR INFORMATION	LT	RT	AG
03	16/08/22	ISSUE FOR INFORMATION	LT	RT	AG
02	11/05/22	ISSUE FOR INFORMATION	LT	RT	AG
01	27/04/22	ISSUE FOR INFORMATION	LT	RT	AG
00	29/03/22	ISSUE FOR INFORMATION	LT	RT	AG

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CLIENT
GEDV MONKSTOWN OWNER LIMITED

PROJECT
RESIDENTIAL DEVELOPMENT ON LANDS OF DALGUISE HOUSE

DRAWING TITLE
PROPOSED UTILITIES PLAN
SURFACE WATER DRAINAGE LAYOUT

STATUS
FOR INFORMATION

Date	Scale	Drawn	Chk	App
29/03/22	AS SHOWN	LT	RT	AG

Project No:	Drg. No:	Rev:
W3683	W3683–DR–1014	11