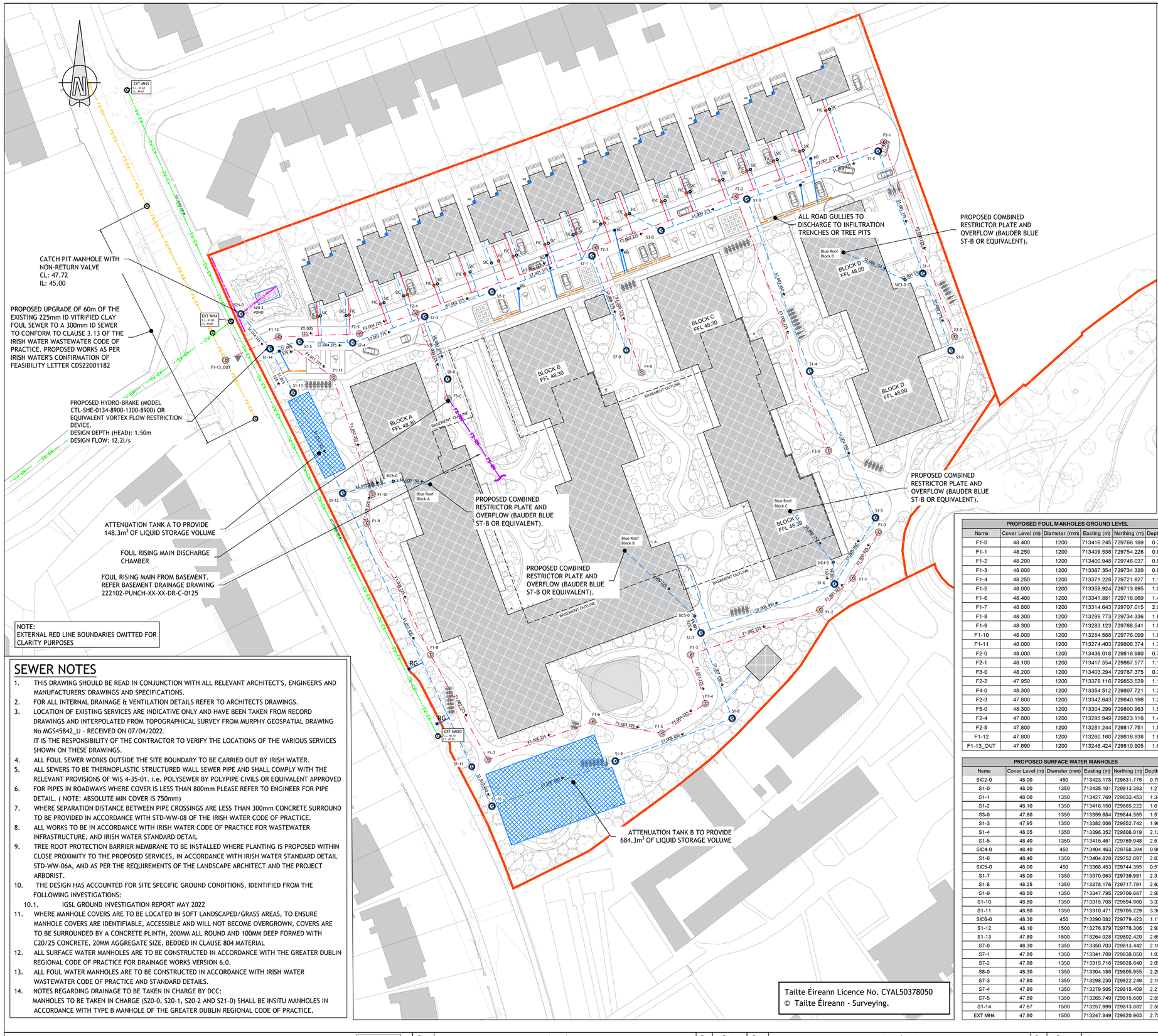

SEWER NOTES

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S, ENGINEER'S AND MANUFACTURERS' DRAWINGS AND SPECIFICATIONS.
2. FOR ALL INTERNAL DRAINAGE & VENTILATION DETAILS REFER TO ARCHITECTS DRAWINGS.
3. LOCATION OF EXISTING SERVICES ARE INDICATIVE ONLY AND HAVE BEEN TAKEN FROM RECORD DRAWINGS AND INTERPOLATED FROM TOPOGRAPHICAL SURVEY FROM MURPHY GEOSPATIAL DRAWING No MGS45842_U - RECEIVED ON 07/04/2022.
   IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF THE VARIOUS SERVICES SHOWN ON THESE DRAWINGS.
4. ALL FOUL SEWER WORKS OUTSIDE THE SITE BOUNDARY TO BE CARRIED OUT BY IRISH WATER.
5. ALL SEWERS TO BE THERMOPLASTIC STRUCTURED WALL SEWER PIPE AND SHALL COMPLY WITH THE RELEVANT PROVISIONS OF WIS 4-35-01. i.e. POLYSEWER BY POLYPIPE CIVILS OR EQUIVALENT APPROVED
6. FOR PIPES IN ROADWAYS WHERE COVER IS LESS THAN 800mm PLEASE REFER TO ENGINEER FOR PIPE DETAIL. (NOTE: ABSOLUTE MIN COVER IS 750mm)
7. WHERE SEPARATION DISTANCE BETWEEN PIPE CROSSINGS ARE LESS THAN 300mm CONCRETE SURROUND TO BE PROVIDED IN ACCORDANCE WITH STD-WW-08 OF THE IRISH WATER CODE OF PRACTICE.
8. ALL WORKS TO BE IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE, AND IRISH WATER STANDARD DETAIL
9. TREE ROOT PROTECTION BARRIER MEMBRANE TO BE INSTALLED WHERE PLANTING IS PROPOSED WITHIN CLOSE PROXIMITY TO THE PROPOSED SERVICES, IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-WW-06A, AND AS PER THE REQUIREMENTS OF THE LANDSCAPE ARCHITECT AND THE PROJECT ARBORIST.
10. THE DESIGN HAS ACCOUNTED FOR SITE SPECIFIC GROUND CONDITIONS, IDENTIFIED FROM THE FOLLOWING INVESTIGATIONS:
    10.1. IGSL GROUND INVESTIGATION REPORT MAY 2022
11. WHERE MANHOLE COVERS ARE TO BE LOCATED IN SOFT LANDSCAPED/GRASS AREAS, TO ENSURE MANHOLE COVERS ARE IDENTIFIABLE, ACCESSIBLE AND 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
12. ALL SURFACE WATER MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS VERSION 6.0.
13. ALL FOUL WATER MANHOLES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER WASTEWATER CODE OF PRACTICE AND STANDARD DETAILS.
14. NOTES REGARDING DRAINAGE TO BE TAKEN IN CHARGE BY DCC:
    MANHOLES TO BE TAKEN IN CHARGE (S20-0, S20-1, S20-2 AND S21-0) SHALL BE INSITU MANHOLES IN ACCORDANCE WITH TYPE B MANHOLE OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE.

ATTENUATION TANK A	
MIN COVER LEVEL	47.80m
INLET INVERT LEVEL	45.164m
OUTLET INVERT LEVEL	45.105m
DEPTH OF COVER	1.495m
LIQUID VOLUME PROVIDED	148.3m³
LENGTH (IN DIRECTION OF FLOW)	20m
WIDTH (PERPENDICULAR TO FLOW)	6.5m
TANK HEIGHT	1.2m

ATTENUATION TANK B	
MIN COVER LEVEL	47.55m (TANK B is SITUATED BENEATH THE DOG PARK. 47.55m HERE REPRESENTS LOWEST LEVEL IN DOG PARK)
INLET INVERT LEVEL	45.545m
OUTLET INVERT LEVEL	45.461m
DEPTH OF COVER	0.889m
LIQUID VOLUME PROVIDED	684.3m³
LENGTH (IN DIRECTION OF FLOW)	30m/ 32m
WIDTH (PERPENDICULAR TO FLOW)	19.7m
TANK HEIGHT	1.2m

LEGEND

- OUTLINE OF PROPOSED BUILDING
- OUTLINE OF BASEMENT BELOW
- EXISTING FOUL MANHOLE
- EXISTING FOUL SEWER (FS-EX)
- PROPOSED FOUL SEWER
- PROPOSED FOUL MANHOLE (FMH)
- PROPOSED SURFACE WATER SEWER
- PROPOSED SURFACE WATER MANHOLE (SMH)
- PROPOSED SURFACE WATER INSPECTION CHAMBER (SIC)
- PROPOSED FOUL WATER INSPECTION CHAMBER (FIC)
- PROPOSED GULLY (RG)
- PROPOSED WATERBUTT (WB)
- PROPOSED HEADWALL
- PROPOSED INFILTRATION TRENCH
- PROPOSED 225mm DIA FILTER DRAIN
- PROPOSED RISING MAIN 80mmOD POLYETHYLENE PIPE TO COMPLY WITH THE REQUIREMENTS OF SECTION 3.14 OF WATER WASTEWATER CODE OF PRACTICE (FS-RM)
- PROPOSED ATTENUATION TANK
- PROPOSED FILTRATION BLANKET 6m X 3m X 0.5m DEEP
- PRIVATE SITE EXTENTS

NOTE:
REFER TO DRAWING 222102-PUNCH-XX-XX-DR-C-0470 FOR PLUVIAL FLOODING DRAINAGE TABLES

PROPOSED FOUL MANHOLES GROUND LEVEL					
Name	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
F1-0	48.400	1200	713416.245	729766.199	0.725
F1-1	48.250	1200	713409.538	729754.226	0.804
F1-2	48.200	1200	713400.948	729746.037	0.833
F1-3	48.000	1200	713367.354	729734.320	0.870
F1-4	48.250	1200	713371.228	729721.627	1.186
F1-5	48.000	1200	713359.924	729713.895	1.004
F1-6	48.400	1200	713341.881	729716.969	1.496
F1-7	48.800	1200	713314.643	729707.015	2.041
F1-8	48.300	1200	713299.773	729734.336	1.697
F1-9	48.300	1200	713283.123	729768.541	1.887
F1-10	48.000	1200	713284.588	729776.099	1.625
F1-11	48.000	1200	713274.403	729806.374	1.785
F2-0	48.000	1200	713436.018	729816.980	0.775
F2-1	48.100	1200	713417.554	729867.577	1.144
F3-0	48.200	1200	713403.294	729787.375	0.775
F2-2	47.950	1200	713379.116	729853.529	1.199
F4-0	48.300	1200	713354.512	729807.721	1.300
F2-3	47.800	1200	713342.643	729840.196	1.243
F5-0	48.300	1200	713304.299	729800.983	1.550
F2-4	47.800	1200	713295.949	729823.116	1.492
F2-5	47.800	1200	713281.244	729817.751	1.570
F1-12	47.800	1200	713260.160	729816.938	1.675
F1-13_OUT	47.690	1200	713246.424	729810.905	1.640

PROPOSED SURFACE WATER MANHOLES					
Name	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
SIC2-0	48.00	450	713423.178	729831.775	0.700
S1-0	48.00	1350	713435.101	729813.393	1.275
S1-1	48.00	1350	713427.769	729833.453	1.346
S1-2	48.10	1350	713416.150	729865.222	1.615
S3-0	47.80	1350	713359.884	729844.585	1.575
S1-3	47.95	1350	713382.006	729852.742	1.906
S1-4	48.05	1350	713398.352	729808.019	2.123
S1-5	48.40	1350	713415.461	729769.948	2.576
SIC4-0	48.40	450	713404.463	729758.394	0.900
S1-6	48.40	1350	713404.828	729752.697	2.626
SIC5-0	48.00	450	713368.453	729744.395	0.575
S1-7	48.00	1350	713370.063	729739.991	2.317
S1-8	48.25	1350	713378.176	729717.791	2.625
S1-9	48.50	1350	713347.795	729706.687	2.955
S1-10	48.80	1350	713315.708	729694.960	3.339
S1-11	48.80	1350	713310.471	729705.229	3.368
SIC6-0	48.30	450	713290.082	729779.423	1.175
S1-12	48.10	1500	713276.879	729776.306	2.936
S1-13	47.80	1500	713264.028	729802.420	2.695
S7-0	48.30	1350	713350.703	729813.442	2.100
S7-1	47.80	1350	713341.709	729838.050	1.920
S7-2	47.80	1350	713315.716	729828.640	2.058
S8-0	48.30	1350	713304.186	729805.955	2.200
S7-3	47.80	1350	713298.230	729822.249	2.151
S7-4	47.80	1350	713279.505	729815.409	2.217
S7-5	47.80	1350	713265.749	729815.680	2.550
S1-14	47.67	1500	713257.999	729813.882	2.592
EXT MH4	47.80	1500	713247.849	729820.963	2.755

PROPOSED FOUL PIPES GROUND LEVEL									
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)	DS Depth (m)
F1.000	F1-0	F1-1	13.724	47.675	47.446	0.229	60.0	225	0.500	0.579
F1.001	F1-1	F1-2	11.868	47.446	47.367	0.079	150.2	225	0.579	0.608
F1.002	F1-2	F1-3	35.579	47.367	47.130	0.237	150.1	225	0.608	0.645
F1.003	F1-3	F1-4	13.271	47.130	47.064	0.066	201.1	225	0.645	0.961
F1.004	F1-4	F1-5	13.695	47.064	46.996	0.068	200.0	225	0.961	0.779
F1.005	F1-5	F1-6	18.303	46.996	46.904	0.092	200.0	225	0.779	1.271
F1.006	F1-6	F1-7	29.000	46.904	46.759	0.145	200.0	225	1.271	1.816
F1.007	F1-7	F1-8	31.106	46.759	46.603	0.156	200.0	225	1.816	1.472
F1.008	F1-8	F1-9	38.042	46.603	46.413	0.190	200.0	225	1.472	1.662
F1.009	F1-9	F1-10	7.699	46.413	46.375	0.038	200.0	225	1.662	1.400
F1.010	F1-10	F1-11	31.942	46.375	46.215	0.160	200.0	225	1.400	1.560
F1.011	F1-11	F1-12	17.733	46.215	46.126	0.089	200.0	225	1.560	1.449
F2.000	F2-0	F2-1	53.862	47.225	46.956	0.269	200.0	225	0.550	0.919
F2.001	F2-1	F2-2	40.925	46.956	46.751	0.205	200.0	225	0.919	0.974
F3.000	F3-0	F2-2	70.434	47.425	46.955	0.470	150.0	225	0.550	0.770
F2.002	F2-2	F2-3	38.834	46.751	46.557	0.194	200.0	225	0.974	1.018
F4.000	F4-0	F2-3	34.576	47.000	46.769	0.231	150.0	225	1.075	0.806
F2.003	F2-3	F2-4	49.720	46.557	46.308	0.249	200.0	225	1.018	1.267
F5.000	F5-0	F2-4	23.674	46.750	46.592	0.158	150.0	225	1.325	0.983
F2.004	F2-4	F2-5	15.653	46.308	46.230	0.078	200.0	225	1.267	1.345
F2.005	F2-5	F1-12	21.100	46.230	46.125	0.105	200.0	225	1.345	1.450
F1.012	F1-12	F1-13_OUT	15.005	46.125	46.050	0.075	200.0	225	1.450	1.415

PROPOSED SURFACE WATER PIPES										
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)	DS Depth (m)
S2.001	SIC2-0	S1-1	4.888	47.300	47.239	0.061	80.0	150	0.550	0.611
S1.000	S1-0	S1-1	21.358	46.725	46.654	0.071	300.0	375	0.900	0.971
S1.001	S1-1	S1-2	33.827	46.654	46.485	0.169	200.0	375	0.971	1.240
S1.002	S1-2	S1-3	36.353	46.485	46.303	0.182	200.0	375	1.240	1.272
S3.000	S3-0	S1-3	23.766	46.225	46.119	0.106	225.0	375	1.200	1.456
S1.003	S1-3	S1-4	47.617	46.044	45.927	0.117	407.0	450	1.456	1.673
S1.004	S1-4	S1-5	41.739	45.927	45.824	0.103	405.2	450	1.673	2.126
S1.005	S1-5	S1-6	20.265	45.824	45.774	0.050	405.3	450	2.126	2.176
S4.001	SIC4-0	S1-6	5.709	47.500	47.429	0.071	80.0	150	0.750	0.821
S1.006	S1-6	S1-7	37.014	45.774	45.683	0.091	406.7	450	2.176	1.867
S5.001	SIC5-0	S1-7	4.689	47.425	47.366	0.059	80.0	225	0.350	0.409
S1.007	S1-7	S1-8	23.636	45.683	45.625	0.058	407.5	450	1.867	2.175
S1.008	S1-8	S1-9	32.347	45.625	45.545	0.080	404.3	450	2.175	2.505
S1.009	S1-9	S1-10	34.163	45.545	45.461	0.084	406.7	450	2.505	2.889
S1.010	S1-10	S1-11	11.527	45.461	45.432	0.029	397.5	450	2.889	2.918
S1.011	S1-11	S1-12	78.615	45.432	45.239	0.193	407.3	450	2.918	2.411
S6.001	SIC6-0	S1-12	13.566	47.125	46.955	0.170	80.0	225	0.950	0.920
S1.012	S1-12	S1-13	29.105	45.164	45.105	0.059	493.3	525	2.411	2.170
S1.013	S1-13	S1-14	12.951	45.105	45.078	0.027	480.0	525	2.170	2.067
S7.000	S7-0	S7-1	26.200	46.200	46.069	0.131	200.0	375	1.725	1.356
S7.001	S7-1	S7-2	27.644	45.880	45.742	0.138	200.0	375	1.545	1.683
S7.002	S7-2	S7-3	18.617	45.742	45.649	0.093	200.0	375	1.683	1.776
S8.000	S8-0	S7-3	17.348	46.100	46.042	0.058	300.0	375	1.825	1.383
S7.003	S7-3	S7-4	19.935	45.649	45.583	0.066	300.0	375	1.776	1.842
S7.004	S7-4	S7-5	13.759	45.583	45.537	0.046	300.0	375	1.842	1.888
S7.005	S7-5	S1-14	7.956	45.250	45.223	0.027	300.0	375	2.175	2.072
S1.014	S1-14	S21-0	11.752	45.078	45.045	0.033	375.0	225	2.067	2.230

Tailte Éireann Licence No. CYAL50378050
© Tailte Éireann - Surveying.

© PUNCH Consulting Engineers
This drawing and any design hereon is the copyright of the Consultants and must not be reproduced without their written consent.
All drawings remain the property of the Consultants.
Figured dimension only to be taken from this drawing.
Consultants to be informed immediately of any discrepancies before work proceeds.
COLOUR DRAWING
BUILDING INFORMATION MODELLING (BIM) I.S. EN ISO 19650-2:2018
NSAI Certified

Rev	Amendment	By	Date	Rev	Amendment	By	Date
C01	STAGE 2 LRD SUBMISSION	DAP	2024-03-07				
C02	STAGE 3 LRD SUBMISSION	DAP	2024-07-25				
C03	STAGE 3 LRD SUBMISSION	DAP	2024-08-02				
C04	STAGE 3 LRD SUBMISSION	DAP	2024-09-24				
C05	STAGE 3 LRD SUBMISSION	DAP	2024-11-01				
C06	STAGE 3 LRD SUBMISSION	DAP	2024-12-06				

Client:
1 Celbridge West Land Limited

PUNCH consulting engineers
Dublin | Limerick | Cork | Galway | Glasgow
Carnegie House Library Road,
Dun Laoghaire, Co. Dublin, A96 C7W7
t +353 1 271 2200 | w punchconsulting.com

Project: FORTFIELD ROAD, TERENURE, DUBLIN 6W
Title: PROPOSED GROUND FLOOR DRAINAGE LAYOUT
Drawn: DAP | Date drawn: FEBRUARY 2024 | Technician Check: PJM | Engineer Check: DM | Approved: PC
Project No: 222102 | Model Ref: 222102-PUNCH-XX-XX-M2-C-0100 | Drawing Status: A0
Scale @ A1: 1:500 | Document Ref: 222102-PUNCH-XX-XX-DR-C-0100 | Revision No: C06