



**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FURNISHED DIMENSIONS ONLY (NOT SCALING) TO BE USED, WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASSE.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

**CIVIL LEGEND**

- EX. SURFACE WATER MANHOLE
- EX. SURFACE WATER PIPE
- EXISTING FOUL WATER MANHOLE
- EXISTING FOUL WATER PIPE
- EXISTING COMBINED WATER MANHOLE
- EXISTING COMBINED WATER PIPE
- NEW FOUL WATER MANHOLE
- NEW FOUL WATER PIPE
- NEW SUSPENDED FOUL WATER PIPE
- 0150 FILTER TRENCH
- TREE PIT
- PERMEABLE PAVING
- ATTENUATION TANK
- BIO-RETENTION AREAS / SWALES
- EXISTING GROUND LEVEL INDICATED THIS

Foul Water Manhole Schedule	COVER LEVEL (m.O.D.)	INVERT LEVEL (m.O.D.)
F1.0	+4.980	+4.250
F1.1	+4.980	+4.250
F1.2	+4.720	+4.283
F1.3	+4.760	+4.265
F1.4	+4.810	+4.279
F1.5	+4.910	+4.277
F1.6	+4.910	+4.294
F1.7	+5.070	+4.180
F1.7A	+5.060	+4.168
F1.8	+4.980	+4.166
F1.8A	+4.980	+4.152
F1.9	+4.900	+4.140
F1.10	+4.950	+4.136
F1.11	+4.930	+4.171
F1.12	+4.480	+4.076
F1.12A	+4.090	+4.053
F1.13	+3.980	+4.022
F1.14	+3.860	+4.035
F1.15	+3.800	+4.038
F1.16	+3.610	+4.004
F1.17	+3.490	+4.003
F1.18	+3.450	+3.940
F1.19	+3.400	+3.854
F1.20	+3.100	+3.800 IN
PUMP STN.		+36.455 BASE
F1.21	+4.400	+4.168
F1.22	+4.250	+4.154
F1.23	+3.560	+4.131
F1.23A	+3.260	+3.960
F1.24	+2.180	+3.900
F1.24A	+2.900	+3.900
F1.25	+2.190	+3.800
F1.26	+3.965	+3.800
F1.27	+3.810	+3.759
F1.28	+3.710	TRC+37.300
F2.0	+4.830	+4.300
F2.1	+4.830	+4.096
F3.0	+4.650	+4.100
F3.1	+4.650	+4.093
F3.2	+4.470	+4.275
F4.0	+5.670	+4.300
F4.1	+5.690	+4.248
F5.0	+4.550	+4.300
F5.1	+4.500	+4.211
F5.2	+4.670	+4.295
F5.3	+4.940	+4.288
F6.0	+5.640	+4.090
F6.1	+5.300	+4.290
F7.0	+5.100	+4.200
F7.1	+5.130	+4.198
F8.0	+5.430	+4.200
F8.1	+5.380	+4.200
F8.2	+5.550	+4.248
F8.3	+5.390	+4.208
F8.4	+5.110	+4.198
F8.5	+4.710	+4.105
F8.5A	+4.880	+4.045
F8.6	+4.870	+4.000
F10.0	+5.640	+4.200
F11.0	+4.900	+4.200
F11.1	+4.630	+4.225
F11.2	+4.650	+4.163
F14.0	+4.200	+4.000
F14.1	+4.160	+3.966
F14.2	+4.150	+3.899
F14.3	+4.140	+3.900 IN
PUMP STN.		+36.000 BASE
F14.4	+4.460	+4.275
F15.0	+4.120	+4.000
F16.0	+4.270	+4.180
F16.0A	+4.330	+4.160
F16.1	+4.020	+4.131
F17.0	+4.820	+3.975
F17.1	+4.820	+3.908
F17.2	+4.610	+3.865
F18.0	+4.800	+4.275
F19.0	+4.150	+3.500
PUMP STN.		+37.150 BASE
F19.1	+4.640	+4.280

**TREE POSITIONS ON LANDSCAPING DRAWINGS TO COMPLY WITH IRISH WATER STANDARD DETAIL STD-W-12**

Irish Water CDS No. CDS19005661  
977No. RESIDENTIAL UNITS + OTHER USES

PLS	DATE	ISSUED FOR COMMENT	BY
PL5	09.03.22	ISSUED FOR COMMENT	WK
PL4	20.02.22	ISSUED FOR COMMENT	WK
PL3	17.12.21	ISSUED FOR COMMENT	WK

Project Engineer: JPC  
Project Director: JPC

**PLANNING**

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**ACEI**  
The Institution of Structural Engineers

CLIENT: **LAND DEVELOPMENT AGENCY**

PROJECT TITLE: **DUNDRUM CENTRAL DEVELOPMENT** BM PROJECT No: **20.170**

REFERENCE: **BURIED FOUL WATER DRAINAGE LAYOUT** SUITABILITY: **PL5**

DRAWING REFERENCE: **DCD-BMD-00-00-DR-C-1021** STATUS: **PL5**

**NOTE:**

- THE CONTRACTOR SHALL CONSTRUCT ALL FOUL DRAINAGE AND WATERMANS IN ACCORDANCE WITH THE LATEST IRISH WATER STANDARD DETAILS AND CODES OF PRACTICE
- POSITIONS OF SERVICES SHOWN ARE INDICATIVE ONLY. THE SETTING-OUT OF ALL SERVICES INDICATED IS THE RESPONSIBILITY OF THE CONTRACTOR, AND HE/SHE SHALL SATISFY THEMSELVES THAT THE REQUIRED DEPTH OF COVER AND SEPARATION DISTANCES ARE ACHIEVED IN ACCORDANCE WITH THE IRISH WATER CODES OF PRACTICE AND STANDARD DETAILS
- THE CONTRACTOR SHALL REVIEW THE PLAN LAYOUT PRIOR TO COMMENCEMENT HAVING REGARD TO THE REQUIREMENTS OF THE CODES OF PRACTICE AND STANDARD DETAILS PUBLISHED BY IRISH WATER, WHERE A DISCREPANCY BETWEEN BMCE PLAN LAYOUT DRAWINGS AND THE RELEVANT REQUIREMENTS OF THE CODES OF PRACTICE OR STANDARD DETAILS IS IDENTIFIED AS PART OF THIS REVIEW, THE CONTRACTOR MUST CONSULT BMCE, PRIOR TO COMMENCING CONSTRUCTION, SO THAT AN APPROPRIATE DESIGN AMENDMENT CAN BE MADE IF NECESSARY
- MINIMUM SELF CLEANSING VELOCITY (1.19m/s) IS BEING ADHERED TO AS PER SECTION 3.6 OF THE WASTEWATER CODE OF PRACTICE. A MINIMUM SIZE OF 225Ø WITH A MINIMUM SLOPE OF 1:150 HAS GENERALLY BEEN SIZED FOR THE ENTIRE SITE. THIS PROVIDES A VELOCITY OF 1.19m/s WHICH IS IN ACCORDANCE WITH THE MINIMUM REQUIRED.
- FOUL PIPE MATERIAL: SN8 THERMOPLASTIC STRUCTURED WALL PIPE

**BURIED FOUL WATER DRAINAGE LAYOUT**

SCALE @ A0: 1:500 @ A0  
SCALE @ A2: 1:1000 @ A2