



**UPPER GROUND FLOOR SURFACE WATER  
PROPOSED DRAINAGE PLAN**

SCALE 1:250

MH REF:	COVER LEVEL	INVERT LEVEL	PIPE Ø	COVER TO PIPE	COMMENTS
EX_SW01	77.830	T.B.C.	225	T.B.C.	
EX_SW02	77.830	77.210	225	0.296	
EX_SW03	77.830	77.180	225	0.425	
EX_SW04	77.710	T.B.C.	150	T.B.C.	
EX_SW05	77.830	T.B.C.	150	T.B.C.	
EX_SW06	77.830	T.B.C.	150	T.B.C.	
EX_SW07	77.800	T.B.C.	150	T.B.C.	
EX_SW08	77.800	T.B.C.	150	T.B.C.	
EX_SW09	77.800	T.B.C.	150	T.B.C.	
EX_SW10	77.400	76.790	225 / 1050	0.280	
EX_SW11	77.400	75.975	225	1.200	
EX_SW12	77.830	T.B.C.	225	T.B.C.	
EX_SW13	77.830	76.730	150	0.770	
EX_SW14	77.830	76.800	150/225	0.475	
EX_SW15	77.710	77.200	150	0.360	
EX_SW16	77.740	T.B.C.	150	T.B.C.	
EX_SW17	77.840	T.B.C.	150	T.B.C.	
EX_SW18	78.200	77.820	150	0.530	
EX_SW19	78.900	77.920	150	0.830	
EX_SW20	81.850	T.B.C.	150	T.B.C.	
EX_SW21	78.780	T.B.C.	225	T.B.C.	
EX_SW22	78.640	T.B.C.	150	T.B.C.	
EX_SW23	75.395	T.B.C.	150	T.B.C.	
EX_SW24	T.B.C.	T.B.C.	150	T.B.C.	
EX_SW25	T.B.C.	T.B.C.	150	T.B.C.	
EX_SW26	T.B.C.	T.B.C.	150	T.B.C.	
EX_SW27	T.B.C.	T.B.C.	150/225	T.B.C.	
EX_SW28	T.B.C.	T.B.C.	225	T.B.C.	
EX_SW29	T.B.C.	T.B.C.	225	T.B.C.	
EX_SW30	73.480	72.330	225	0.925	
SW01	77.560	75.935/75.779	225	0.975	
SW02	77.530	75.666	225/150	1.930	
SW03	77.530	74.083	150	3.297	
SW04	77.530	74.072	150	3.061	
SW05	74.745	73.834	150	0.661	
SW06	74.300	72.963 (PREV.)	150	1.681	
SW07	78.400	77.624	150	0.626	
SW08	79.000	77.560	150	1.290	
SW09	78.300	77.400	150	0.780	

**SURFACE WATER MANHOLE SCHEDULE**

**LEGEND**

- NEW FOUL WATER SEWER
- EX FOUL WATER SEWER
- EX SURFACE WATER SEWER
- NEW SURFACE WATER SEWER
- EXISTING WATERMAIN
- NEW WATERMAIN
- NEW WATERMAIN
- WAVELENE

**DRAINAGE NOTES:**

ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH IS EN 752:2008, TGD PART 4, GPR CODE OF PRACTICE FOR DRAINAGE WORKS V8.0 AND IRISH WATER SPECIFICATIONS.

MIN. 150mm C18/20 CONCRETE BED & SURROUND TO BE PROVIDED TO SEWER FOOTPATHS.

ALL REINSTATEMENT WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY.

ALL MANHOLES COVERS AND FRAME ARE TO BE CLASS D400 TO BS EN 124 UNO, SEWER PIPE LINES TO BE S100 PVC PIPE UP TO AND INCLUDING 3000 TO IS EN 1401 2006/2012.

SEWER PIPE LINES EXCEEDING 3000 TO BE CONCRETE SPIGOT AND SOCKET PIPES WITH RUBBER RING FITTINGS. TO IS EN 1916 (2002), BS 5911 PART 1 (2002/2010) AND IS EN 12041, STRENGTH CLASS 150 WITH MINIMUM CRUSHING LOADS IN KPa CORRESPONDING WITH TABLE 5.9.55.59.11.1 (EN 12041/2010).

ALL VERTICAL STACK CONNECTIONS TO FOUL SEWER CHAMBERS TO BE CONFORMING RING RADIIUS BENDS AND MUST JOIN MAIN SEWER LINE AT 45° TO DIRECT DOWN FLOW.

**STORMWATER ATTENUATION:**

TOTAL SITE AREA = 6056m<sup>2</sup>

FOR: 100 YEAR RETURN EVENT

Q<sub>95</sub>Annual = 5.5 LITRES/SECOND

20% INCREASE IN ATTENUATION VOLUME FOR CLIMATE CHANGE

25% INCREASE IN ATTENUATION VOLUME FOR HEAD DISCHARGE

MAX ATTENUATE VOLUME REQUIRED = 956.14m<sup>3</sup>

VOLUME PROVIDED BY ONLINE ATTENUATION STORAGE SYSTEM: 340.3m<sup>3</sup> x 1.06m<sup>3</sup>m<sup>-2</sup> = 360.72m<sup>3</sup>

Rev	Date	By	Description
4	17/01/22	SR	SHD Stage 3 Submission
3	17/11/21	AD	Preliminary Issue to Irish Water for Quality Assurance
2	31/05/21	SR	SHD Stage 2 Submission
1	26/03/21	SR	SHD Stage 1 Submission
0	22/03/21	SR	Preliminary Issue to Irish Water for PCE Application

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Project: **Dolcain House SHD, Clonsilla, Dublin 22, for Randslewood Holdings L.TD**

Drawing: **Upper Ground Floor Surface Water Proposed Drainage Plan Site Layout A**

Model Reference: **2148-LDE-ZZ-ZZ-M2-SC-0001**

Drawing Reference: **2148-LDE-ZZ-00-DR-SC-5C02-A**

Project No: **2148**

Scale: **@A1**

Drawn: **SR**

Rev: **4**

Date: **May '21**

Model Rev: **P.01.1**

Stability: **S0**