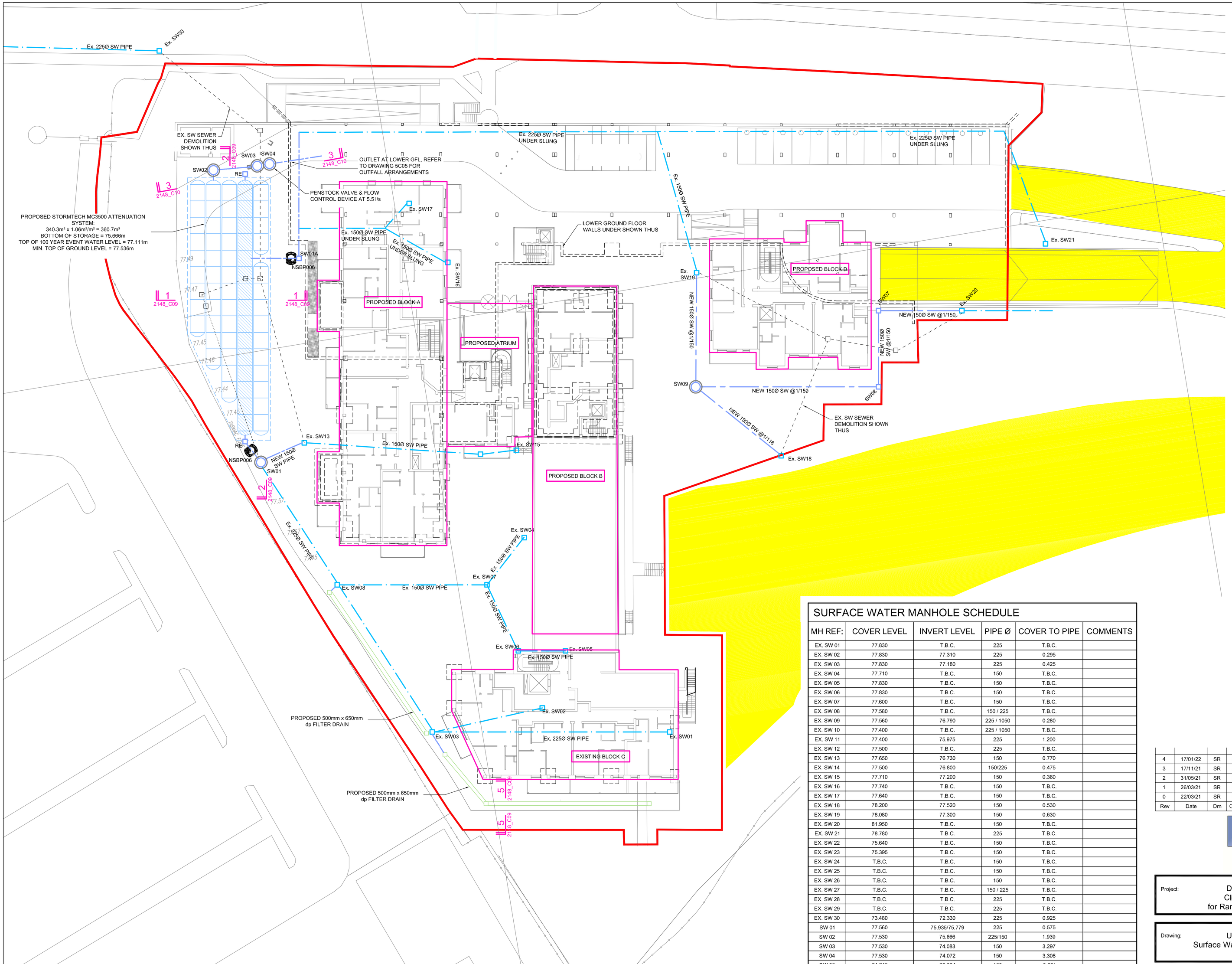

UPPER GROUND FLOOR SURFACE WATER PROPOSED DRAINAGE PLAN

SCALE 1:250

LEGEND

NEW FOUL WATER SEWER	F3
EX. FOUL WATER SEWER	EX. F3
EX. SURFACE WATER SEWER	EX. S3
NEW SURFACE WATER SEWER	S3
EXISTING WATERMAIN	EX. W/M
NEW WATERMAIN	NEW W/M
WAYLEAVE	

DRAINAGE NOTES:

ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH IS EN 752: 2008, TGD PART H, GDR CODE OF PRACTICE FOR DRAINAGE WORKS V6.0 AND IRISH WATER SPECIFICATIONS.

MIN. 150mm C16/20 CONCRETE BED & SURROUND TO BE PROVIDED TO SEWER PIPELINES WHERE THE COVER IS LESS THAN 1.200m UNDER ROADS, VERGES AND 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 U.N.O.

SEWER PIPE LINES TO BE SN8 uPVC PIPE UP TO AND INCLUDING 300Ø TO IS EN 1401 2009/2012.

SEWER PIPE LINES EXCEEDING 300Ø TO BE CONCRETE SPIGOT AND SOCKET PIPES WITH RUBBER RING FITTINGS, TO IS EN 1916 (2002), BS 5911 PART 1 (2002-2010) AND IS 6 (2004), STRENGTH CLASS 120 WITH MINIMUM CRUSHING LOADS IN ACCORDANCE WITH TABLE 8 OF BS 5911-1 (2002-2010).

ALL VERTICAL STACK CONNECTIONS TO FOUL SEWER CHAMBERS TO INCORPORATE LONG RADIUS BENDS AND MUST JOIN MAIN SEWER LINE AT 45° TO DIRECTION OF FLOW.

STORMWATER ATTENUATION:

TOTAL SITE AREA = 8056m²

FOR: 100 YEAR RETURN EVENT

QBARrural = 5.5 LITRES/SECOND

20% INCREASE IN ATTENUATION VOLUME FOR CLIMATE CHANGE

25% INCREASE IN ATTENUATION VOLUME FOR HEAD DISCHARGE

MAX ATTENUATE VOLUME REQUIRED = 356.14m³

VOLUME PROVIDED BY ONLINE ATTENUATION STORAGE SYSTEM:

340.3m³ x 1.06m³/m² = 360.72m³

SURFACE WATER MANHOLE SCHEDULE

MH REF:	COVER LEVEL	INVERT LEVEL	PIPE Ø	COVER TO PIPE	COMMENTS
EX. SW 01	77.830	T.B.C.	225	T.B.C.	
EX. SW 02	77.830	77.310	225	0.295	
EX. SW 03	77.830	77.180	225	0.425	
EX. SW 04	77.710	T.B.C.	150	T.B.C.	
EX. SW 05	77.830	T.B.C.	150	T.B.C.	
EX. SW 06	77.830	T.B.C.	150	T.B.C.	
EX. SW 07	77.600	T.B.C.	150	T.B.C.	
EX. SW 08	77.580	T.B.C.	150 / 225	T.B.C.	
EX. SW 09	77.560	76.790	225 / 1050	0.280	
EX. SW 10	77.400	T.B.C.	225 / 1050	T.B.C.	
EX. SW 11	77.400	75.975	225	1.200	
EX. SW 12	77.500	T.B.C.	225	T.B.C.	
EX. SW 13	77.650	76.730	150	0.770	
EX. SW 14	77.500	76.800	150/225	0.475	
EX. SW 15	77.710	77.200	150	0.360	
EX. SW 16	77.740	T.B.C.	150	T.B.C.	
EX. SW 17	77.640	T.B.C.	150	T.B.C.	
EX. SW 18	78.200	77.520	150	0.530	
EX. SW 19	78.080	77.300	150	0.630	
EX. SW 20	81.950	T.B.C.	150	T.B.C.	
EX. SW 21	78.780	T.B.C.	225	T.B.C.	
EX. SW 22	75.640	T.B.C.	150	T.B.C.	
EX. SW 23	75.395	T.B.C.	150	T.B.C.	
EX. SW 24	T.B.C.	T.B.C.	150	T.B.C.	
EX. SW 25	T.B.C.	T.B.C.	150	T.B.C.	
EX. SW 26	T.B.C.	T.B.C.	150	T.B.C.	
EX. SW 27	T.B.C.	T.B.C.	150 / 225	T.B.C.	
EX. SW 28	T.B.C.	T.B.C.	225	T.B.C.	
EX. SW 29	T.B.C.	T.B.C.	225	T.B.C.	
EX. SW 30	73.480	72.330	225	0.925	
SW 01	77.560	75.935/75.779	225	0.575	
SW 02	77.530	75.666	225/150	1.939	
SW 03	77.530	74.083	150	3.297	
SW 04	77.530	74.072	150	3.308	
SW 05	74.745	73.934	150	0.661	
SW 06	74.300	72.953 (PROV.)	150	1.681	
SW 07	78.400	77.624	150	0.626	
SW 08	79.000	77.560	150	1.290	
SW 09	78.300	77.400	150	0.780	

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

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Project: Dolcain House SHD, Clondalkin, Dublin 22, for Randelswood Holdings LTD

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

Project No.	2148
Drg. No.	C02-B
Scale	@A1
Date	May '21
Drawn	SR
Rev.	4
Model Reference:	2148-LDE-ZZ-ZZ-M2-SC-0001
Model Rev:	P.01.1
Drawing Reference:	2148-LDE-ZZ-00-DR-SC-5C02-B
Suitability:	S0