

SCHEDULE OF SURFACE WATER CHAMBERS *COVER LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION					
NAME	TYPE	DIAMETER (m)	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH (m)
SWC-01	CP	0.600	109.775	109.039	0.736
SWC-02	CP	0.600	109.775	108.878	0.897
SWC-03	CP	0.600	109.800	109.033	0.767
SWC-04	CP	0.600	109.775	108.717	1.058
SWC-05	CP	0.600	109.775	108.989	0.786
SWC-06	CP	0.600	109.775	108.841	0.934
SWC-07	CP	0.600	109.775	108.672	1.103
SWC-08	CP	0.600	109.775	108.500	1.275
SWC-09	FC	0.600	109.750	108.409	1.341
SWC-10	CP	0.600	109.800	108.282	1.518
SWC-11	IC	0.450	109.650	109.081	0.569
SWC-12	IC	0.450	109.650	108.893	0.757
SWC-13	CP	0.600	109.500	108.771	0.729
SWC-14	IC	0.450	109.600	108.913	0.687
SWC-15	CP	0.600	109.550	108.705	0.845
SWC-16	СР	0.600	109.725	108.777	0.948
SWC-17	СР	0.600	109.700	108.654	1.046
SWC-18	IC	0.600	109.725	108.571	1.154
SWC-19	FC	0.600	109.725	108.521	1.204
SWC-20	IC	0.450	109.850	108.888	0.962
SWC-21	СР	0.600	109.725	108.329	1.396
SWC-22	СР	0.600	109.800	108.439	1.361
SWC-23	FC	0.600	109.800	108.194	1.606
SWC-24	IC	0.450	109.725	108.076	1.649
SWC-25	IC	0.450	109.750	107.731	2.019
SWC-26	СР	0.600	109.650	107.549	2.101

Surface Water Underground Attenuation Tank from Polystorm (1m long x 0.5m wide x 0.40m deep) or similar approved product to be at least 30.0mx16.5mx0.8m deep with 95% void ratio to provide minimum 376.20m³ of net storage to avoid any flooding for 1:100 storm event +40% Climate Change. CL: Varies and min. 109.800m is considered Top of tank:109.057m IL of tank:108.257m

Supplier of tank to provide structural and floatation calculations and contractor to follow their recommendations regarding

storing, handling and installation. Attenuation tank to be wrapped with welded impermeable membrane.

tree height =12.98m

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SCHEDULE OF SURFACE WATER PIPES				
START AND END STRUCTURE	DIAMETER (m)	LENGTH (m)	GRADIENT	
SWC-01 to SWC-02	0.150	22.505	1:140	/
SWC-02 to SWC-04	0.150	22.505	1:140	
SWC-03 to SWC-04	0.150	12.911	1:41	K
SWC-04 to SWC-08	0.150	30.354	1:140	(RY)
SWC-05 to SWC-06	0.150	20.708	1:140	
SWC-06 to SWC-07	0.150	23.642	1:140	A
SWC-07 to SWC-08	0.150	23.942	1:140	\leq
SWC-08 to SWC-09	0.150	12.751	1:140	KX /
SWC-09 to SWC-10	0.150	16.430	1:130	122
SWC-10 to Att. Tank	0.150	2.000	1:80	7
SWC-11 to SWC-12	0.150	20.586	1:110	W.
SWC-12 to SWC-13	0.150	15.933	1:130	
SWC-13 to SWC-15	0.150	9.245	1:140	
SWC-14 to SWC-15	0.150	24.952	1:120	
SWC-15 to SWC-18	0.150	18.719	1:140	
SWC-16 to SWC-17	0.150	13.508	1:110	2
SWC-17 to SWC-18	0.150	10.000	1:120	
SWC-18 to SWC-19	0.150	7.000	1:140	
SWC-19 to SWC-21	0.150	26.884	1:140	
SWC-20 to SWC-21	0.150	16.947	1:30	
SWC-21 to Attenuation	0.150	10.031	1:140	
SWC-22 to Attenuation	0.150	2.000	1:11	
Attenuation to SWC-23	0.150	2.500	1:40	1
SWC-23 to SWC-24	0.150	15.288	1:130	1
SWC-24 to SWC-25	0.150	44.751	1:130	1
SWC-25 to SWC-26	0.150	23.551	1:130	1
SWC-26 to SW Headwall	0.150	2.034	1:130	1

assumed that pavement will slope away from \rightarrow Proposed Foul Water Pipes. No existing routes for services were provided to the drainage designer. If any unavoidable routes are encountered on site by the contractor the drainage engineer will need to be advised as soon as possible. deep suitable granular subbase storage with assumed that pavement will slope away from App. 941m² total surface area with a total net D DEVIATION MAY BE MADE FROM THE CONTENTS OF THIS SWC-12

DRAWING TO BE PRINTED IN COLOUR.

Proposed Surface Water Pipes.

Proposed Treated Effluent Pipes.

Proposed SW inspection/catchpit chamber.

Proposed assumed SVP location. TBC by

Proposed SW headwall to be built on

existing ditch with no return valve.

others in subsequent design stages.

Proposed FW inspection chamber.

effluent. Details TBC by supplier.

Proposed sample chamber for treated

Proposed Biodisc unit to treat the foul

water before discharging into the ditch.

Details to be confirmed once amount of

Proposed treated effluent headwall to be

valve. To be built at least 10m away from

Proposed Permeable Pavement 01 as per

Landscape Architect specification.

built on the existing ditch with no return

the proposed building.

people using the site are known. Size TBC.

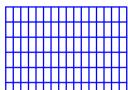
KEY: $\rightarrow \rightarrow$

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(Both grasscrete and block paving to have at least 550mm deep suitable subbase for drainage from granular material with at least 30% voids. Proposed Permeable Pavement 02 as per

Landscape Architect specification. (Both grasscrete and block paving to have at least 470mm deep suitable subbase for drainage from granular material with at least 30% voids.

Proposed geocellular underground attenuation tank to be Polystorm Xtra or similar approved product. Supplier to provide structural calcs and guidance.

REV	DATE	DRAWN	DESCRIPTION	CHECK	APPR.
С	14-09-23	M.H	Site Layout updated.	SL	SL
B	10-09-23		Detention basin removed. Attenuation	SL	SL
			tank moved and storage increased.		
А	01-06-23	M.H	For Information.	SL	SL
(PROJECT:)					

C2998 - The Rise, Broxted CM6 2BJ

1:250

SIZE:

A1



Proposed Surface Water Drainage Strategy and Suds Layout.

CLIENT:

The Rise Ltd

M.H

01-06-23

DATE:

WWW.nimbusengineering.co.uk info@nimbusengineering.co.uk					
		[
CHECKED BY:	DATE:	APPROVED BY:	DATE:		
S.L	01-06-23	S.L	01-06-23		
NBY:	SCALE:	DRAWING NUMBER:	REV:		

C2998-01

SWC-11

