

Manhole Reference	Cover Level (m)	Outgoing Pipe Invert Level (m)	Manhole Type	Manhole depth (m)	Internal Manhole Size	Cover Clear Opening and Cover Grade	Comments
SW1	2.500	1.500	TYPE 2	1.000	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
SW2	2.500	1.384	TYPE 2	1.116	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
SW3	2.500	1.256	TYPE 2	1.244	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
SW4 (CP)	2.800	1.191	TYPE B	1.909	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW11 (CP)	2.500	1.257	TYPE B	1.543	1200x750 Rectangular Precast Concrete Blocks	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW12 (CP)	3.100	0.976	TYPE B	2.424	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 2.500 IL
SW13	3.300	0.709	TYPE 2	2.591	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW14	2.500	1.000	TYPE 2	1.500	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW16	2.550	0.561	TYPE 2	1.989	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 1.950 IL
SW19 (CP)	2.400	0.476	TYPE B	2.224	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW23 (CP)	2.400	0.420	TYPE B	2.280	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Hydrobrake Chamber, Steps Required 150 dia. overflow at 1.800 IL
SW26	1.500	0.387	TYPE 2	1.113	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
HW1	1.100	0.379		0.721			Refer to WSCC Standard Details for Headwall Construction Requirements. Outfall pipes to be fitted with non-return valves.
SW26	2.400	0.675	TYPE 2	1.725	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW27 (CP)	2.700	0.627	TYPE B	2.373	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW27a (CP)	2.700	1.800	TYPE B	0.450	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
SW31 (CP)	2.600	0.656	TYPE B	2.344	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	150 dia. overflow at 2.000 IL Steps Required
SW32	2.400	0.484	TYPE 2	1.916	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW33	2.400	1.275	TYPE 2	1.125	1200x750 Rectangular Precast Concrete Blocks	600x600 eccentric BS EN 124 CLASS D400	
SW34 (CP)	2.400	0.343	TYPE B	2.357	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 1.800 IL
SW37							MH REMOVED
SW40 (CP)	2.200	0.180	TYPE 2	2.320	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Hydrobrake Chamber 150 dia. overflow at 1.600 IL
HW2	1.200	0.150		1.050			Refer to WSCC Standard Details for Headwall Construction Requirements. Outfall pipes to be fitted with non-return valves.
SW41	2.400	1.200	TYPE 2	1.200	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
SW42 (CP)	2.400	1.131	TYPE B	1.569	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW44 (CP)	2.320	1.270	TYPE B	1.350	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW46 (CP)	2.380	0.965	TYPE B	1.715	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 1.780 IL
SW49	3.300	1.950	TYPE 2	1.350	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW50	2.850	1.500	TYPE 2	1.350	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW51	2.400	1.050	TYPE 2	1.350	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW52	2.200	0.850	TYPE 2	1.350	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 1.630 IL
SW53 (CP)	2.400	0.583	TYPE B	2.117	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW57	2.400	1.050	TYPE 2	1.350	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW58	2.400	0.468	TYPE 2	1.932	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required 150 dia. overflow at 1.800 IL
SW61	1.900	0.444	TYPE 2	1.456	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
HW3	1.200	0.432		0.768			Refer to WSCC Standard Details for Headwall Construction Requirements. Outfall pipes to be fitted with non-return valves.
HW4	1.200	0.210		0.866			Refer to WSCC Standard Details for Headwall Construction Requirements. Outfall pipes to be fitted with non-return valves.
SW62 (CP)	2.400	1.350	TYPE B	1.350	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW 63 (CP)	2.400	1.250	TYPE B	1.450	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW 64	3.140	0.500	TYPE 2	2.640	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
SW 65	2.491	0.344	TYPE 2	2.147	1800 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Hydrobrake Chamber Steps Required 150 dia. overflow at 1.750 IL
HW5	1.180	0.410		0.780			Refer to WSCC Standard Details for Headwall Construction Requirements. Outfall pipes to be fitted with non-return valves.

SURFACE WATER MANHOLE AND HEADWALL SCHEDULE

Manhole Reference	Cover Level (m)	Outgoing Pipe Invert Level (m)	Manhole Type	Manhole depth (m)	Internal Manhole Size	Cover Clear Opening and Cover Grade	Comments
FW1	2.400	1.350	TYPE 2	1.050	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
FW2	2.400	0.979	TYPE 2	1.421	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW3	2.400	0.885	TYPE 2	1.515	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW4	2.200	0.464	TYPE 2	1.736	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW5	2.850	-0.215	TYPE 1	3.065	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Ladder required
FW6	2.950	-0.387	TYPE 1	3.337	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Ladder required
FW7	3.300	-0.716	TYPE 1	4.016	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Ladder required
FW8	2.400	1.350	TYPE 2	1.050	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
FW9	2.400	0.505	TYPE 2	1.895	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW10	2.500	1.350	TYPE 2	1.150	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
FW11	2.500	0.706	TYPE 2	1.694	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW12	2.400	1.350	TYPE 2	1.050	1050 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	
FW13	2.400	0.737	TYPE 2	1.663	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW14	3.300	0.368	TYPE 2	2.932	1200 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Steps Required
FW PUMPING STATION	2.400	-0.809	TYPE 1	3.209	1500 Diameter Precast Concrete Rings	600x600 eccentric BS EN 124 CLASS D400	Design to be confirmed - Pumping Station design and details to be designed by Specialist. Ladder required

FOUL WATER MANHOLE SCHEDULE

Tank No.	Approx. Catchment Area (m ²)	Approx. Storage Volume Required (m ³)	Approx. Tank Size (m)	Tank Cover Depth (m AOD)	Tank Cover Level (m AOD)	Tank Soffit Level (m AOD)	Tank Base Level (m AOD)	Incoming I.L.	Outgoing I.L.	Depth (m)	Comments
TANK 1	7490	692	32.5 x 32 x 0.7	1.700	2.400	1.121	0.421	0.477	0.421	0.7	Tank to be vented to air
TANK 2	6495	433	31 x 21 x 0.7	1.349	3.025	1.676	0.976	1.191	0.976	0.7	Tank to be vented to air
TANK 3	10350	855	30 x 30 x 1	1.058	2.650	1.592	0.592	(a): 0.627 (b): 1.300	0.592	1	Tank to be vented to air
TANK 4	4505	325	17.5 x 24.5 x 0.8	0.550	2.400	1.850	1.050	(a): 1.131 (b): 1.270	1.05	0.8	Tank to be vented to air
TANK 5	10350	963	52 x 19.5 x 1	0.925	2.400	1.475	0.468	0.583	0.468	1	Tank to be vented to air

ATTENUATION TANK SCHEDULE

COPYRIGHT RAMBOLL UK LIMITED. ALL RIGHTS RESERVED. THIS DOCUMENT IS ISSUED FOR THE PARTY WHO COMMISSIONED IT AND FOR THE SPECIFIC PURPOSES CONNECTED WITH THE PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE. RAMBOLL ACCEPTS NO RESPONSIBILITY OR LIABILITY WHICH MAY ARISE FROM RELIANCE OR USE OF THIS DOCUMENT OR THE DATA CONTAINED HEREIN BY ANY OTHER PARTY OR FOR ANY OTHER PURPOSE.

- NOTES
- DO NOT SCALE FROM THIS DRAWING.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - FINISHED GROUND LEVEL TO BE RAISED LOCALLY AROUND ACCESS COVER IF THE INCOMING PIPE CLASHES WITH THE MANHOLE COVER SLAB.
 - MODULAR STORAGE UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION GUIDANCE.

P05	MINOR LEVEL ADJUSTMENTS TO MATCH SIMULATION MODEL	05/10 2018	CL	MRD
P04	AMENDMENTS DUE TO INCLUSION OF EMERGENCY OVERFLOWS	25/09 2018	ME	MRD
P03	AMENDMENTS DUE TO UPDATED HYDRAULIC MODEL	17/08 2018	ME	MRD
P02	ATTENUATION TANK SCHEDULE UPDATED	25/07 2018	CCT	MRD
P01	PLANNING	14/06 2018	CL	MRD
Rev	Description	Date	By	App
			Chk	

PLANNING

PHASE 2
OLDLANDS FARM
BOGNOR REGIS



tel 023 8081 7500 fax 023 8081 7600 southampton@ramboll.co.uk
www.ramboll.co.uk

DRAINAGE
MANHOLE SCHEDULE

Project No:	Scale (@A1):	Drawn:	Date:
1620003993	NTS	CCT	JUNE.18
Drawing No:	Rev:		
RAM-0500-02-SC-CR-00001			P05