

Surface Water Manhole and Pipe Schedule												
Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type	
S1	113.413	112.363	1.050	900mm PCC	C250		S1-S2	30.180	0.201	1 in	150	150mm PVC
S2	113.318	112.162	1.156	900mm PCC	C250		S2-S3	29.037	0.262	1 in	111	150mm PVC
S3	112.950	111.900	1.050	900mm PCC	C250		S3-S4	28.090	1.103	1 in	25	150mm PVC
S4a	112.464	111.414	1.050	900mm PCC	C250		S4a-S4	10.543	0.617	1 in	17	150mm PVC
S4	112.397	110.797	1.600	900mm PCC	C250		S4-S5	10.756	0.377	1 in	29	225mm PVC
S5	112.070	110.420	1.650	900mm PCC	C250		S5-Attenuation Tank	0.998	0.904	1 in	1	225mm PVC
S6	112.960	112.260	0.700	450mm PPIC	B125		S6-S7	10.936	0.109	1 in	100	100mm PVC
S7	113.180	112.151	1.029	450mm PPIC	B125		S7-S8	23.769	0.676	1 in	35	100mm PVC
S8	112.600	111.475	1.125	450mm PPIC	B125		S8-S9	11.950	0.569	1 in	21	150mm PVC
S9	112.433	110.906	1.527	450mm PPIC	A15		S9-S4	7.950	0.109	1 in	73	225mm PVC
RE1	113.036	112.436	0.600	Rodding Eye	A15		RE1-S10	27.164	0.881	1 in	31	100mm PVC
S10	112.255	111.555	0.700	450mm PPIC	A15		S10-S11	9.332	0.095	1 in	98	100mm PVC
S11	112.160	111.460	0.700	450mm PPIC	A15		S11-S9	14.215	0.275	1 in	52	100mm PVC
S12	112.010	111.185	0.825	450mm PPIC	A15		S12-S9	17.039	0.279	1 in	61	150mm PVC
RE3	111.805	111.105	0.700	Rodding Eye	B125		RE3-S13	17.528	0.885	1 in	20	100mm PVC
S13	111.420	110.220	1.200	450mm PPIC	A15		S13-S14	6.001	0.257	1 in	23	100mm PVC
S14a	111.250	110.227	1.023	450mm PPIC	A15		S14a-S14	17.126	0.314	1 in	55	150mm PVC
S14	111.210	109.913	1.297	450mm PPIC	A15		S14-S15	8.068	0.047	1 in	172	150mm PVC
RE4	111.735	111.135	0.600	Rodding Eye	A15		RE4-S14a	22.244	0.858	1 in	26	100mm PVC
RE5	111.099	110.499	0.600	Rodding Eye	A15		RE5-S14a	18.024	0.222	1 in	81	100mm PVC
RE6	110.850	110.150	0.700	Rodding Eye	A15		RE6-S14	18.678	0.187	1 in	100	100mm PVC
RE7	110.705	110.155	0.550	Rodding Eye	C250		RE7-saddle connection	9.441	0.094	1 in	100	100mm PVC
S15	110.750	109.866	0.884	450mm PPIC	C250		S15-Attenuation Tank	1.266	0.275	1 in	5	150mm PVC
Attenuation Tank	110.720	109.341	1.379			Attenuation tank cover level taken from lowest point	Attenuation Tank-FCC	1.401	0.011	1 in	124	150mm PVC
FCC	111.330	109.330	2.000	900mm PCC	A15		FCC-Outfall	19.424	0.130	1 in	149	150mm PVC
RE10	114.030	113.330	0.700	Rodding Eye	B125		RE10-S16	10.707	0.410	1 in	26	100mm PVC
S16	114.020	112.920	1.100	450mm PPIC	A15		S16-S18	30.412	0.876	1 in	35	100mm PVC
S17	113.550	112.850	0.700	450mm PPIC	A15		S17-saddle connection	3.496	0.065	1 in	54	100mm PVC
S18	112.744	112.044	0.700	450mm PPIC	B125		S18-S19	15.684	0.660	1 in	24	100mm PVC
S19	112.084	111.384	0.700	450mm PPIC	B125		S19-S20	20.093	0.134	1 in	150	150mm PVC
S20	111.959	111.250	0.709	450mm PPIC	A15		S20-S21	21.354	1.150	1 in	19	150mm PVC
RE11	111.950	111.250	0.700	Rodding Eye	B125		RE11-S21b	6.442	0.043	1 in	150	100mm PVC
S21b	111.960	111.207	0.753	450mm PPIC	A15		S21b-S21a	8.220	0.677	1 in	12	100mm PVC
S21a	111.230	110.530	0.700	450mm PPIC	A15		S21a-S21	21.821	0.430	1 in	51	100mm PVC
S21	111.500	110.100	1.400	450mm PPIC	A15		S21-Soakaway Basin	4.142	0.420	1 in	10	150mm PVC
Soakaway Basin	110.500	109.680	0.820	Soakaway Basin			Soakaway Basin-Outfall	22.393	0.480	1 in	47	150mm PVC
RE12	114.000	113.400	0.600	Rodding Eye	A15		RE12-S22	6.355	0.063	1 in	101	100mm PVC
S22	114.259	113.337	0.922	450mm PPIC	A15		S22-Soakaway 1	7.013	0.070	1 in	100	100mm PVC
S23	113.497	112.797	0.700	450mm PPIC	A15		S23-Soakaway 2	7.211	0.072	1 in	100	100mm PVC
S24	112.685	111.985	0.700	450mm PPIC	A15		S24-Soakaway 3	4.196	0.042	1 in	100	100mm PVC

Foul Water Manhole and Pipe Schedule												
Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type	
F1	111.040	110.340	0.700	450mm PPIC	A15		F1-F2	6.912	0.250	1 in	28	100mm PVC
F2	110.790	110.090	0.700	450mm PPIC	A15		F2-F3	17.487	0.218	1 in	80	100mm PVC
F3c	111.150	110.450	0.700	450mm PPIC	A15		F3c-F3b	3.198	0.080	1 in	40	100mm PVC
F3b	111.110	110.370	0.740	450mm PPIC	A15		F3b-F3a	4.640	0.115	1 in	40	100mm PVC
F3a	111.130	110.255	0.875	450mm PPIC	A15		F3a-F3	7.110	0.383	1 in	19	100mm PVC
F3	110.990	109.872	1.118	450mm PPIC	A15		F3-F4	10.501	0.132	1 in	80	100mm PVC
F4	111.360	109.740	1.620	450mm PPIC	A15		F4-F5	10.086	0.126	1 in	80	100mm PVC
F5c	111.650	110.950	0.700	450mm PPIC	A15		F5c-F5b	3.263	0.082	1 in	40	100mm PVC
F5b	111.690	110.868	0.822	450mm PPIC	A15		F5b-F5a	5.212	0.131	1 in	40	100mm PVC
F5a	111.770	110.737	1.033	450mm PPIC	B125		F5a-F5	8.209	0.837	1 in	10	100mm PVC
F5	111.720	109.614	2.106	450mm PPIC	B125	Backdrop from F5a of 0.286m	F5-F6	12.577	0.158	1 in	80	100mm PVC
F6	112.300	109.456	2.844	450mm PPIC	A15		F6-F7	13.899	0.173	1 in	80	100mm PVC
F7	112.536	109.233	3.303	450mm PPIC	A15	Backdrop from F11 of 1.42m, and from F15 of 1.217m	F7-F26	14.322	0.095	1 in	150	150mm PVC
F8	112.97	112.27	0.700	450mm PPIC	A15		F8-F9	9.72	0.245	1 in	40	100mm PVC
F9	112.94	112.025	0.915	450mm PPIC	B125		F9-F10	12.127	0.305	1 in	40	100mm PVC
F10	113	111.72	1.280	450mm PPIC	A15		F10-F11	8.579	0.107	1 in	80	100mm PVC
F11	112.670	111.613	1.057	450mm PPIC	A15		F11-F7	9.331	0.913	1 in	10	100mm PVC
F12	112.250	111.550	0.700	450mm PPIC	A15		F12-F13	4.988	0.125	1 in	40	100mm PVC
F13	112.250	111.425	0.825	450mm PPIC	A15		F13-F14	3.778	0.095	1 in	40	100mm PVC
F14a	112.450	111.435	1.015	450mm PPIC	A15		F14a-F14	1.067	0.105	1 in	10	100mm PVC
F14	112.250	111.330	0.920	450mm PPIC	A15		F14-F15	5.613	0.070	1 in	80	100mm PVC
F15	112.250	111.260	0.990	450mm PPIC	B125		F15-F7	7.817	0.760	1 in	10	100mm PVC
F16	111.940	111.240	0.700	450mm PPIC	A15		F16-F17	7.445	0.185	1 in	40	100mm PVC
F17	112.010	111.055	0.955	450mm PPIC	A15		F17-F18	4.907	0.124	1 in	40	100mm PVC
F18	112.040	110.931	1.109	450mm PPIC	A15		F18-F19	9.052	0.113	1 in	80	100mm PVC
F19a	112.500	111.350	1.150	450mm PPIC	A15		F19a-F19	5.512	0.532	1 in	10	100mm PVC
F19	111.967	110.818	1.149	450mm PPIC	A15		F19-F20	14.437	0.180	1 in	80	100mm PVC
F20c	112.660	111.960	0.700	450mm PPIC	B125		F20c-F20b	3.027	0.075	1 in	40	100mm PVC
F20b	112.660	111.885	0.775	450mm PPIC	B125		F20b-F20a	8.931	0.225	1 in	40	100mm PVC
F20a	112.660	111.660	1.000	450mm PPIC	B125		F20a-F20	3.872	0.385	1 in	10	100mm PVC
F20	112.590	110.638	1.952	450mm PPIC	A15	Backdrop from F20a of 0.637m	F20-F24	9.175	0.115	1 in	80	100mm PVC
F21c	114.140	113.440	0.700	450mm PPIC	A15		F21c-F21b	2.716	0.068	1 in	40	100mm PVC
F21b	114.210	113.372	0.838	450mm PPIC	A15		F21b-F21a	6.089	0.152	1 in	40	100mm PVC
F21a	114.210	113.220	0.990	450mm PPIC	A15		F21a-F21	6.639	0.083	1 in	80	100mm PVC
F21	114.070	113.137	0.933	450mm PPIC	A15		F21-F22	15.477	0.475	1 in	33	100mm PVC
F22a	113.520	112.820	0.700	450mm PPIC	A15		F22a-F22	6.302	0.158	1 in	40	100mm PVC
F22	113.670	112.662	1.008	450mm PPIC	A15		F22-F23	18.434	0.313	1 in	59	100mm PVC
F23b	113.380	112.680	0.700	450mm PPIC	B125		F23b-F23a	7.870	0.230	1 in	34	100mm PVC
F23a	113.150	112.450	0.700	450mm PPIC	B125		F23a-F23	8.053	0.101	1 in	80	100mm PVC
F23	113.240	112.349	0.891	450mm PPIC	A15		F23-F24	8.694	0.849	1 in	10	100mm PVC
F24	112.820	110.523	2.297	600mm PPIC	C250	Backdrop from F23 of 0.977m	F24-F25	13.067	0.164	1 in	80	100mm PVC
F25	112.567	110.359	2.208	600mm PPIC	C250		F25-F26	9.263	0.909	1 in	10	150mm PVC
F26	112.848	109.138	3.710	900mm PPIC	A15	Backdrop from F25 of 0.262m	F26-Pumping Station	3.203	0.021	1 in	150	150mm PVC
Pumping Station	112.969	109.116	3.853	600mm GRP	B125	Rising Main	Pump-F27	85.037	-3.925	1 in	-22	
F27	113.557	113.041	0.516	900mm PCC	C250			21.108	0.141	1 in	150	150mm PVC
STW 9705	114.230	112.900	1.330	Existing	Existing		Existing	Existing	Existing	Existing	Existing	

Exact position, system type and invert level of STW public sewer to be determined prior to construction. Engineer to be notified immediately

Manhole invert levels designed to accommodate lateral incoming pipes up to 50mm above invert level while still ensuring self cleansing velocities

SAFETY,HEALTH & ENVIRONMENTAL HAZARD INFORMATION BOX.

The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.

CONSTRUCTION RISKS:

- Unforeseen services
- Deep trenches
- Leptospirosis

MAINTENANCE / CLEANING RISKS:

- Leptospirosis

Notes:

1. DO NOT SCALE FROM THIS DRAWING.

2. All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)

3. Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.

4. All levels and dimensions are to be checked on site before any work commences.

5. The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.

Drainage:

1. Invert levels of existing manholes to be checked on site prior to commencing any drainage works.

2. For positions of all rainwater pipes & foul outlets refer to Architect's drawings.

3. All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.

4. Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80

5. All in-situ concrete shall be minimum grade GEN3.

6. Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.

7. Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.

8. All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.

P3

05/11/2024

Synchronised manhole schedule to updated drainage layout

DC / VSP

P2

30/09/2024

Updates to drainage due to updated site plan.

VSP/ DE

P1

26/09/2024

Issued for comments

VSP/ DE

Rev

Date

Description

By / Chk

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Client:

Springbourne Homes Ltd

Architect:

Hayward Architects

Project:

Proposed Housing Development
The Coppice
Burbage

Title:

Manhole Schedule

Status:

PRELIMINARY

Engineer: VSP

Date: September 2024

Drawn: VSP

Scales @ A 1:

Checked: DE

N/A

Project No: 82907

Drg No: 103

Rev: P3

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