

**SURFACE WATER MANHOLE SCHEDULE**

Manhole Ref.	Cover Level (m)	Invert Level (m)	Backdrop Invert Lvl (m)	Manhole Depth (m)	Manhole Type	Manhole Ø (mm)	Cover/Frame Grade	Remarks
MHS10	51.175	OUT=-49.675 SL=-49.075	-	OUT=1.500 SL=2.100	Type 2 Catchpit	1200	D400	600mm deep sump
MHS11	50.950	OUT=-49.555 OUT=-49.555 SL=-40.355	-	OUT=1.395 OUT=1.395 SL=1.995	Type 2 Catchpit	1200	D400	600mm deep sump
MHS12	51.140	OUT=-49.415 OUT=-49.415 SL=-48.815	-	OUT=1.725 OUT=1.725 SL=2.325	Type 2 Catchpit	1200	D400	600mm deep sump
MHS13	51.310	OUT=-49.315 OUT=-49.315 SL=-46.715	-	OUT=1.995 OUT=1.995 SL=2.595	Type 2 Catchpit	1200	D400	600mm deep sump
MHS14	51.035	OUT=-49.185 OUT=-49.185 SL=-48.585	-	OUT=1.850 OUT=1.850 SL=2.450	Type 2 Catchpit	1200	D400	600mm deep sump
MHS15	50.950	OUT=-49.150 OUT=-49.150 SL=-48.550	-	OUT=1.800 OUT=1.800 SL=2.400	Type 2 Catchpit	1200	D400	600mm deep sump
MHS16	51.110	OUT=-49.050 OUT=-49.050 SL=-48.450	-	OUT=2.050 OUT=2.050 SL=2.650	Type 2 Catchpit	1200	D400	600mm deep sump
MHS17	51.180	OUT=-49.010 OUT=-49.010 SL=-48.410	-	OUT=2.170 OUT=2.170 SL=2.770	Type 2 Catchpit	1200	D400	600mm deep sump
MHS18	51.230	OUT=-48.935 OUT=-48.935 SL=-48.335	-	OUT=2.295 OUT=2.295 SL=2.895	Type 2 Catchpit	1200	D400	600mm deep sump
Headwall A	-	Outfall LL=-48.935	-	-	-	-	-	Proprietary JKH FCCC 300 Series headwall unit.
Headwall B	-	Outfall LL=-48.935	-	-	-	-	-	Proprietary JKH FCCC 300 Series headwall unit.
Headwall C	-	Outfall LL=-48.935	-	-	-	-	-	Proprietary JKH FCCC 300 Series headwall unit.
MHS19	51.300	OUT=-48.935 OUT=-48.935 SL=-46.335	-	OUT=2.365 OUT=2.365 SL=2.965	Type 2 Catchpit	1200	D400	600mm deep sump
MHS110	51.360	OUT=-48.935 OUT=-48.935 SL=-48.335	-	OUT=2.425 OUT=2.425 SL=3.025	Type 2 Catchpit	1200	D400	600mm deep sump
MHS20	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS21	51.400	50.402	-	0.998	Type 4	300	A15	-
MHS22	51.400	50.250	-	1.150	Type 4	300	B125	-
MHS23	51.225	49.897	-	1.328	Type 3	500	D400	-
MHS30	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS31	51.400	50.680	-	0.720	Type 4	300	A15	-
MHS32	51.400	50.515	-	0.885	Type 4	300	A15	-
MHS40	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS50	51.200	50.500	-	0.700	Type 4	300	A15	-
MHS51	51.200	50.330	-	0.850	Type 3	300	B125	-
MHS60	51.300	50.000	-	1.300	Type 4	300	B125	-
MHS70	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS71	51.100	49.750	-	1.350	Type 3	500	D400	-
MHS80	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS81	51.250	50.677	-	0.573	Type 4	300	A15	-
MHS90	51.400	50.800	-	0.800	Type 4	300	A15	-
MHS91	51.400	50.764	-	0.636	Type 4	300	A15	-
MHS92	51.400	50.600	-	0.800	Type 4	300	A15	-
MHS93	51.150	49.800	-	1.350	Type 4	300	B125	-
MHS100	51.400	50.665	-	0.735	Type 4	300	A15	-
MHS110	51.375	50.075	-	1.300	Type 4	300	B125	-
MHS120	51.250	50.600	-	0.650	Type 4	300	A15	-
MHS121	51.200	50.425	-	0.775	Type 4	300	A15	-
MHS122	51.025	49.657	-	1.368	Type 4	300	A15	-
MHS130	51.250	50.650	-	0.800	Type 4	300	A15	-
MHS131	51.250	49.900	-	1.350	Type 4	300	A15	-
MHS140	51.210	50.055	-	1.155	Type 4	300	B125	-
MHS150	51.400	50.600	-	0.600	Type 4	300	A15	-
MHS151	51.400	50.172	-	1.228	Type 4	300	A15	-
MHS152	51.225	49.975	-	1.350	Type 4	300	A15	-
MHS160	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS170	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS171	51.325	49.825	-	1.500	Type 4	300	B125	-
MHS180	51.400	50.800	-	0.800	Type 4	300	A15	-
MHS181	51.400	49.900	-	1.500	Type 4	300	A15	-

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MHS19.0	51.400	50.400	-	1.000	Type 4	300	A15	-
MHS19.1	51.400	50.174	-	1.226	Type 3	500	A15	-
MHS20.0	51.400	50.400	-	1.000	Type 4	300	A15	-
MHS20.1	51.400	50.096	-	1.304	Type 4	300	B125	-
MHS21.0	51.400	50.050	-	1.350	Type 4	300	B125	-
MHS22.0	51.400	50.800	-	0.600	Type 4	300	A15	-
MHS22.1	51.200	50.300	-	0.900	Type 4	300	A15	-
MHS22.2	51.150	49.242	-	1.908	Type 3	500	D400	-
MHS23.0	51.200	50.600	-	0.600	Type 4	300	A15	-
MHS23.1	51.200	50.400	-	0.800	Type 4	300	A15	-
MHS23.2	51.150	49.800	-	1.350	Type 3	500	D400	-
MHS23.3	51.090	49.682	-	1.408	Type 3	500	D400	-
MHS24.0	51.200	50.600	-	0.600	Type 4	300	A15	-
MHS25.0	51.200	50.250	-	0.950	Type 4	300	A15	-
MHS25.1	51.200	50.068	-	1.132	Type 4	300	B125	-
MHS26.0	51.200	50.300	-	0.900	Type 4	300	A15	-
MHS27.0	51.200	50.600	-	0.600	Type 4	300	A15	-
MHS27.1	51.200	50.353	-	0.847	Type 4	300	A15	-

**SURFACE WATER SOAKAWAY SCHEDULE**

Soakaway Ref.	Cover Level (m)	Inlet Level(s) (m)	Inlet Depth(s) (m)	Effective Depth (m)	Sump Level (m)	Total Depth (m)	Soakaway Type	Soakaway Ø (mm)	Cover/Frame Grade
SA1	51.400	48.935	2.465	2.693	47.400	4.000	FCC RING	1500	D400
SA2	51.400	48.935	2.465	2.693	47.400	4.000	FCC RING	1500	D400

**SURFACE WATER PIPE SCHEDULE**

Pipe Ref.	Pipe Length (m)	Pipe Ø (mm)	Pipe Material	Gradient (1 in %)	Bedding	Remarks
PNS1.0	16.13	300	Polypipe	155.8	Class S	-
PNS1.1	21.99	300	Polypipe	157.1	Class S	-
PNS1.2	16.21	300	Polypipe	162.0	Class S	-
PNS1.3	20.71	300	Polypipe	159.2	Class S	-
PNS1.4	6.03	300	Polypipe	171.4	Class S	-
PNS1.5	15.92	300	Polypipe	159.0	Class S	-
PNS1.6	5.93	300	Polypipe	147.5	Class S	-
PNS1.7	12.00	300	Polypipe	160.0	Class S	-
PNS1.8	3.50	300	Polypipe	-	Class S	-
PNS1.9	2.00	300	Polypipe	-	Class S	-
PNS1.10	1.16	300	Polypipe	-	Class S	-
PNS1.11	2.00	300	Polypipe	-	Class S	-
PNS1.12	1.16	300	Polypipe	-	Class S	-
PNS2.0	7.22	100	UPVC	60	Class S	-
PNS2.1	8.72	100	UPVC	21.9	Class S	-
PNS2.2	9.07	100	UPVC	60	Class Z	Concrete bed and surround to pipe
PNS2.3	10.23	100	UPVC	29	Class S	-
PNS2.4	6.44	150	UPVC	29	Class S	-
PNS3.0	7.10	100	UPVC	60	Class S	-
PNS3.1	6.89	100	UPVC	60	Class S	-
PNS3.2	8.16	150	UPVC	14.4	Class S	-
PNS4.0	7.04	100	UPVC	24.7	Class S	-
PNS5.0	7.12	100	UPVC	60	Class S	-
PNS5.1	7.88	100	UPVC	20	Class Z	Concrete bed and surround to pipe
PNS6.0	6.26	100	UPVC	19.3	Class S	-
PNS7.0	7.37	100	UPVC	60	Class S	-
PNS7.1	14.33	100	UPVC	14.4	Class S	-
PNS7.2	10.49	150	UPVC	140	Class S	-
PNS8.0	7.33	100	UPVC	60	Class S	-
PNS8.1	8.79	100	UPVC	9.5	Class S	-
PNS9.0	2.81	100	UPVC	80	Class S	-
PNS9.1	9.13	100	UPVC	80	Class S	-
PNS9.2	7.46	100	UPVC	9.4	Class Z	Concrete bed and surround to pipe
PNS9.3	4.86	150	UPVC	20	Class S	-
PNS10.0	5.13	100	UPVC	80	Class Z	Concrete bed and surround to pipe
PNS11.0	5.16	100	UPVC	-	Class Z	Concrete bed and surround to pipe
PNS11.1	4.81	100	UPVC	21.4	Class S	-

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Pipe Ref.	Pipe Length (m)	Pipe Ø (mm)	Pipe Material	Gradient (1 in %)	Bedding	Remarks
PNS12.0	7.00	100	UPVC	40	Class S	-
PNS12.1	6.89	100	UPVC	9.0	Class S	-
PNS12.2	4.08	150	UPVC	40	Class S	-
PNS13.0	7.37	100	UPVC	60	Class S	-
PNS13.1	10.37	100	UPVC	13.9	Class S	-
PNS13.2	6.23	150	UPVC	12.9	Class S	-
PNS14.0	8.47	100	UPVC	80	Class Z	Concrete bed and surround to pipe
PNS15.0	8.10	100	UPVC	12.9	Class S	-
PNS15.1	3.14	100	UPVC	12.9	Class S	-
PNS15.2	13.21	150	UPVC	28.7	Class S	-
PNS15.3	6.45	100	UPVC	28.7	Class Z	Concrete bed and surround to pipe
PNS16.0	1.75	100	UPVC	-	Class S	-
PNS17.0	9.45	100	UPVC	9.7	Class S	-
PNS17.1	4.27	100	UPVC	10.4	Class S	-
PNS18.0	6.84	100	UPVC	8.1	Class S	-
PNS18.1	8.55	100	UPVC	14.6	Class S	-
PNS19.0	9.02	100	UPVC	40	Class S	-
PNS19.1	7.50	100	UPVC	8.8	Class S	-
PNS19.2	5.80	100	UPVC	80	Class Z	Concrete bed and surround to pipe
PNS20.0	10.13	100	UPVC	40	Class S	-
PNS20.1	12.64	100	UPVC	13.9	Class S	-
PNS21.0	8.80	100	UPVC	-	Class Z	Concrete bed and surround to pipe
PNS21.1	8.70	100	UPVC	58	Class Z	Concrete bed and surround to pipe
PNS22.0	2.47	100	UPVC	5.5	Class S	-
PNS22.1	11.43	100	UPVC	10.8	Class S	-
PNS22.2	6.18	150	UPVC	67	Class S	-
PNS23.0	3.80	100	UPVC	19	Class S	-
PNS23.1	7.16	100	UPVC	12	Class S	-
PNS23.2	4.72	100	UPVC	40	Class S	-
PNS23.3	15.59	150	UPVC	40	Class S	-
PNS24.0	4.76	100	UPVC	3.3	Class S	-