YORKSHIRE WATER REF
H-3-264-963

COMBINED & FOUL MANHOLE SCHEDULE

MH REF	MANHOLE TYPE	MANHOLE SIZE	COVER SLAB	COVER TYPE / SIZE	COVER LEVEL	INVERT LEVEL	DEPTH TO SOFFIT (m)	PIPES IN PIPE No	PIPES IN IL	PIPES IN DIAMETER	PIPES OUT PIPE No	PIPES OUT IL	PIPES OUT DIAMETER
C1	MH B	1200	600 x 600	D 400 - 600 x 600	105.255	102.785	2.245				1.000	102.785	225
C2	MH B	1500	600 x 600	D 400 - 600 x 600	104.750	102.285	2.240	1.000	102.285	225	1.001	102.285	225
C3	MH B	1200	600 x 600	D 400 - 600 x 600	103.579	101.700	1.654	1.001	101.700	225	1.002	101.700	225
C4	MH B	1500	600 x 600	D 400 - 600 x 600	102.354	100.175	1.954	1.002	100.175	225	1.003	100.175	225
C5	MH B	1200	600 x 600	D 400 - 600 x 600	101.040	99.075	1.740	1.003	99.075	225	1.004	99.075	225
C6	MH B	1200	600 x 600	D 400 - 600 x 600	102.160	99.245	2.690				2.000	99.245	225
C7	MH B	1500	600 x 600	D 400 - 600 x 600	101.000	98.845	1.930	2.000	98.845	225	2.001	98.845	225
C8	MH B	1200	600 x 600	D 400 - 600 x 600	100.787	98.745	1.817	2.001	98.745	225	2.002	98.745	225
C9	MH B	1500	600 x 600	D 400 - 600 x 600	100.244	97.810	2.209	1.004	97.810	225	1.005	97.810	225
								2.002	97.810	225			
C10	MH B	1200	600 x 600	D 400 - 600 x 600	100.140	97.710	2.205	1.005	97.710	225	1.006	97.710	225
C11	MH A	1200	600 x 600	D 400 - 600 x 600	97.300	93.320	3.755	1.006	93.320	225	1.007	93.320	225
F1	MH B	1500	600 x 600	D 400 - 600 x 600	100.688	98.200	2.338				3.000	98.200	150
F2	MH B	1500	600 x 600	D 400 - 600 x 600	98.271	96.230	1.891	3.000	96.230	150	3.001	96.230	150
F3	MH B	1200	600 x 600	D 400 - 600 x 600	97.768	95.440	2.178	3.001	95.440	150	3.002	95.440	150
F4	MH B	1500	600 x 600	D 400 - 600 x 600	96.315	93.850	2.315	3.002	93.850	150	3.003	93.850	150
F5	MH A	1500	600 x 600	D 400 - 600 x 600	97.049	93.020	3.879	3.003	93.020	150	3.004	93.020	150
EX	MH C	1200	600 x 600	D 400 - 600 x 600	100.640	99.140	1.275				4.000	99.140	225
C12	MH B	1200	600 x 600	D 400 - 600 x 600	100.996	98.865	1.906	4.000	98.865	225	4.001	98.865	225
C13	MH B	1500	600 x 600	D 400 - 600 x 600	99.431	97.320	1.886	4.001	97.320	225	4.002	97.320	225
C14	MH B	1200	600 x 600	D 400 - 600 x 600	98.334	95.970	2.139	4.002	95.970	225	4.003	95.970	225
C15	MH B	1500	600 x 600	D 400 - 600 x 600	97.181	94.970	1.986	4.003	94.970	225	4.004	94.970	225
C16	MH B	1200	600 x 600	D 400 - 600 x 600	96.240	94.260	1.755	4.004	94.260	225	4.005	94.260	225
C17	MH B	1200	600 x 600	D 400 - 600 x 600	96.184	94.020	1.939	4.005	94.020	225	4.006	94.020	225
C18	MH B	1500	600 x 600	D 400 - 600 x 600	96.357	93.545	2.587	4.006	93.545	225	4.007	93.545	225
C19	MH A	1200	600 x 600	D 400 - 600 x 600	97.102	92.945	3.932	4.007	92.945	225	4.008	92.945	225
C20	MH A	1500	600 x 600	D 400 - 600 x 600	97.124	92.650	4.174	1.007	92.725	225	1.008	92.650	300
								3.004	92.800	150			
								4.008	92.725	225			
C21	MH A	1500	600 x 600	D 400 - 600 x 600	96.025	92.040	3.685	1.008	92.040	300	1.009	92.040	300
C22	MH B	1200	600 x 600	D 400 - 600 x 600	94.494	91.770	2.424	1.009	91.770	300	1.010	91.770	300
C23	MH A	1500	600 x 600	D 400 - 600 x 600	94.314			1.010	90.770	300			

STORM DEMARCATION CHAMBER SCHEDULE

MH REFERENCE	MANHOLE TYPE	MANHOLE MATERIAL	MANHOLE MANUFACTURE	MANHOLE DIA	COVER LEVEL	U/S INVERT LEVEL	D/S INVERT LEVEL	DEPTH (m) TO SOFFIT	GRADIENT	COVER TYPE / OPENING	PIPE TYPE	PIPE MANUFACTURER	PIPE DIA	PIPE LENGTH (m)
SD1	TYPE D	Polypropylene	Polypipe	460	106.500	105.150	104.650	1.200	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	5.00
SD2	TYPE D	Polypropylene	Polypipe	460	103.900	102.500	102.300	1.250	1:41	Class B125 - 460Ø	uPVC	Polypipe	150	8.30
SD3	TYPE D	Polypropylene	Polypipe	460	102.300	101.100	100.850	1.050	1:18	Class B125 - 460Ø	uPVC	Polypipe	150	4.60
SD4	TYPE D	Polypropylene	Polypipe	460	100.400	99.200	98.560	1.050	1:15	Class B125 - 460Ø	uPVC	Polypipe	150	9.90
SD5	TYPE D	Polypropylene	Polypipe	460	100.300	99.150	98.560	1.000	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	6.30
SD6	TYPE D	Polypropylene	Polypipe	460	100.650	99.450	99.150	1.050	1:21	Class B125 - 460Ø	uPVC	Polypipe	150	6.30
SD7	TYPE D	Polypropylene	Polypipe	460	101.200	99.900	99.675	1.150	1:34	Class B125 - 460Ø	uPVC	Polypipe	150	7.60
SD8	TYPE D	Polypropylene	Polypipe	460	101.200	99.850	99.675	1.200	1:48	Class B125 - 460Ø	uPVC	Polypipe	150	8.40
SD9	TYPE D	Polypropylene	Polypipe	460	101.150	99.850	98.875	1.150	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	9.90
SD10	TYPE D	Polypropylene	Polypipe	460	100.750	99.350	98.875	1.250	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	5.00
SD11	TYPE D	Polypropylene	Polypipe	460	98.600	97.400	96.975	1.050	1:15	Class B125 - 460Ø	uPVC	Polypipe	150	6.40
SD12	TYPE D	Polypropylene	Polypipe	460	98.200	97.000	96.525	1.050	1:14	Class B125 - 460Ø	uPVC	Polypipe	150	6.80
SD13	TYPE D	Polypropylene	Polypipe	460	96.400	95.200	94.825	1.050	1:14	Class B125 - 460Ø	uPVC	Polypipe	150	5.20
SD14	TYPE D	Polypropylene	Polypipe	460	96.550	95.350	94.825	1.050	1:12	Class B125 - 460Ø	uPVC	Polypipe	150	6.30
SD15	TYPE D	Polypropylene	Polypipe	460	97.050	95.850	95.550	1.050	1:17	Class B125 - 460Ø	uPVC	Polypipe	150	5.00
SD16	TYPE D	Polypropylene	Polypipe	460	96.100	94.750	94.060	1.200	1:15	Class B125 - 460Ø	uPVC	Polypipe	150	10.40
SD17	TYPE D	Polypropylene	Polypipe	460	96.300	94.850	94.060	1.300	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	8.20
SD18	TYPE D	Polypropylene	Polypipe	460	97.000	95.500	95.350	1.350	1:33	Class B125 - 460Ø	uPVC	Polypipe	150	5.00
SD19	TYPE D	Polypropylene	Polypipe	460	97.250	95.500	95.350	1.050	1:53	Class B125 - 460Ø	uPVC	Polypipe	150	8.00
SD20	TYPE D	Polypropylene	Polypipe	460	96.250	94.650	94.595	1.450	1:85	Class B125 - 460Ø	uPVC	Polypipe	150	4.40
SD21	TYPE D	Polypropylene	Polypipe	460	96.300	95.100	94.595	1.050	1:16	Class B125 - 460Ø	uPVC	Polypipe	150	8.30
SD22	TYPE D	Polypropylene	Polypipe	460	96.000	1.050	94.720	1.050	1:55	Class B125 - 460Ø	uPVC	Polypipe	150	4.50
SD23	TYPE D	Polypropylene	Polypipe	460	97.500	96.300	95.720	1.050	1:14	Class B125 - 460Ø	uPVC	Polypipe	150	6.10
SD24	TYPE D	Polypropylene	Polypipe	460	97.200	95.950	95.720	1.100	1:20	Class B125 - 460Ø	uPVC	Polypipe	150	5.20
SD25	TYPE D	Polypropylene	Polypipe	460	98.350	97.250	96.720	0.950	1:12	Class B125 - 460Ø	uPVC	Polypipe	150	12.40
SD26	TYPE D	Polypropylene	Polypipe	460	99.450	98.250	97.920	1.050	1:16	Class B125 - 460Ø	uPVC	Polypipe	150	11.40
SD27	TYPE D	Polypropylene	Polypipe	460	100.000	98.800	97.910	1.050	1:14	Class B125 - 460Ø	uPVC	Polypipe	150	7.20
SD28	TYPE D	Polypropylene	Polypipe	460	98.600	97.400	96.720	1.050	1:17	Class B125 - 460Ø	uPVC	Polypipe	150	7.50
SD29	TYPE D	Polypropylene	Polypipe	460	99.400	98.200	97.690	1.050	1:14	Class B125 - 460Ø	uPVC	Polypipe	150	5.30
SD30	TYPE D	Polypropylene	Polypipe	460	100.500	99.200	99.030	1.150	1:44	Class B125 - 460Ø	uPVC	Polypipe	150	7.10
SD31	TYPE D	Polypropylene	Polypipe	460	100.500	99.200	99.030	1.150	1:31	Class B125 - 460Ø	uPVC	Polypipe	150	5.30
SD32	TYPE D	Polypropylene	Polypipe	460	100.500	99.200	98.460	1.150	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	7.10
SD33	TYPE D	Polypropylene	Polypipe	460	102.500	101.000	100.850	1.350	1:57	Class B125 - 460Ø	uPVC	Polypipe	150	8.60
SD34	TYPE C	PCC	PCC	1200	104.700	103.300	103.200	1.250	1:66	Class D400 - 600 x 600	uPVC	Polypipe	150	6.60

SURFACE WATER MANHOLE SCHEDULE

MH REF	MANHOLE TYPE	MANHOLE SIZE	COVER SLAB	COVER TYPE / SIZE	COVER LEVEL	INVERT LEVEL	DEPTH TO SOFFIT (m)	PIPES IN PIPE No	PIPES IN IL	PIPES IN DIAMETER	PIPES OUT PIPE No	PIPES OUT IL	PIPES OUT DIAMETER
S1	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	106.074	104.650	1.274				1.000	104.650	150
S2	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	104.590	103.200	1.240	1.000	103.200	150	1.001	103.200	150
S3	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	103.733	102.225	1.283	1.001	102.300	150	1.002	102.225	225
S4	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	102.249	100.700	1.249	1.002	100.775	225	1.003	100.700	300
S5	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	101.149	99.600	1.249	1.003	99.600	300	1.004	99.600	300
S6	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	100.516	99.085	1.206				2.000	99.085	225
S7	MH B	1800	600 x 600	D 400 - 600 x 600	100.223	98.335	1.513	1.004	98.410	300	1.005	98.335	375
								2.000	98.485	225			
S8	MH B	1800	600 x 600	D 400 - 600 x 600	100.129	98.235	1.519	1.005	98.235	375	1.006	98.235	375
S9	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	101.089	99.600	1.264				3.000	99.600	225
S10	MH B	1500	1220 x 675	D 400 - TWIN 600 x 600	100.716	98.725	1.691	3.000	98.800	225	3.001	98.725	300
S11	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	98.331	96.825	1.206	3.001	96.825	300	3.002	96.825	300
S12	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	97.976	96.225	1.301	3.002	96.375	300	3.003	96.225	450
S13	MH C	1800	1220 x 675	D 400 - TWIN 600 x 600	96.299	94.375	1.324	3.003	94.525	450	3.004	94.375	600
S14	MH B	2100	600 x 600	D 400 - 600 x 600	97.032	93.905	2.527	1.006	94.130	375	1.007	93.905	600
								3.004	93.905	600			
S15	MH C	1500	1220 x 675	D 400 - TWIN 600 x 600	100.387	98.955	1.207				4.000	98.955	225
S16	MH C	1800	1220 x 675	D 400 - TWIN 600 x 600	99.274	97.845	1.204				5.000	97.845	225
S17	MH C	1800	1220 x 675	D 400 - TWIN 600 x 600	98.206	96.495	1.336	4.000	96.645	225	4.001	96.495	375
								5.000	96.645	225			
S18	MH C	1800	1220 x 675	D 400 - TWIN 600 x 600	97.050	95.495	1.180	4.001	95.495	375	4.002	95.495	375
S19	MH C	1800	1220 x 675	D 400 - TWIN 600 x 600	96.042	94.195	1.172	4.002	94.495	375	4.003	94.195	675
S20	MH B	1800	600 x 600	D 400 - 600 x 600	96.294	94.070	1.549	4.003	94.070	675	4.004	94.070	675
S21	MH B	1800	600 x 600	D 400 - 600 x 600	97.030	93.830	2.525	4.004	93.830	675	4.005	93.830	675
S22	MH B	2100	600 x 600	D 400 - 600 x 600	97.102	93.685	2.667	1.007	93.835	600	1.008	93.685	750
								4.005	93.760	675			
S23	MH B	2100	600 x 600	D 400 - 600 x 600	95.980	93.460	1.770	1.008	93.460	750	1.009	93.460	750
S24	MH B	2100	600 x 600	D 400 - 600 x 600	95.800	92.200	2.850	1.009	93.310	750	1.010	92.725	750
											BYPASS	92.200	150
TANK					95.800	92.600	1.360	1.010	92.700	750	1.011	92.600	300
S25_FC	QD1776-08-03	2400	1220 x 675	D 400 - TWIN 600 x 600	95.200	92.010	2.890	1.011	92.060	300	1.012	92.010	300
S26	MH B	1200	600 x 600	D 400 - 600 x 600	95.000	91.800	2.900	1.012	91.800	300	1.013	91.800	300
S27_HEADWALL	QD1776-08-04				95.000			1.013	91.755	300			

FOUL DEMARCATION CHAMBER SCHEDULE

MH REFERENCE	MANHOLE TYPE	MANHOLE MATERIAL	MANHOLE MANUFACTURE	MANHOLE DIA	COVER LEVEL	U/S INVERT LEVEL	D/S INVERT LEVEL	DEPTH (m) TO SOFFIT	GRADIENT	COVER TYPE / OPENING	PIPE TYPE	PIPE MANUFACTURER	PIPE DIA	PIPE LENGTH (m)
FD1	TYPE B	PCC	PCC	1200	105.150	103.150	102.360	1.850	1:10	Class D400 - 600 x 600	uPVC	Polypipe	150	7.90
FD2	TYPE D	Polypropylene	Polypipe	460	103.900	102.300	101.775	1.450	1:25	Class B125 - 460Ø	uPVC	Polypipe	150	13.30
FD3	TYPE D	Polypropylene	Polypipe	460	102.300	100.900	100.250	1.250	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.50
FD4	TYPE D	Polypropylene	Polypipe	460	100.400	98.800	97.885	1.450	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	9.30
FD5	TYPE D	Polypropylene	Polypipe	460	100.300	98.650	97.885	1.500	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	8.20
FD6	TYPE D	Polypropylene	Polypipe	460	100.950	99.200	98.920	1.600	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	3.00
FD7	TYPE D	Polypropylene	Polypipe	460	100.900	99.350	98.820	1.400	1:16	Class B125 - 460Ø	uPVC	Polypipe	150	8.40
FD8	TYPE C	PCC	PCC	1200	101.100	99.520	98.920	1.430	1:10	Class D400 - 600 x 600	uPVC	Polypipe	150	6.00
FD9	TYPE D	Polypropylene	Polypipe	460	101.150	99.250	98.200	1.750	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	10.50
FD10	TYPE D	Polypropylene	Polypipe	460	100.700	98.850	98.200	1.700	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.50
FD11	TYPE D	Polypropylene	Polypipe	460	98.450	96.750	96.230	1.550	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	5.40
FD12	TYPE D	Polypropylene	Polypipe	460	98.300	96.850	96.230	1.300	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.50
FD13	TYPE D	Polypropylene	Polypipe	460	97.800	96.050	95.440	1.600	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.00
FD14	TYPE D	Polypropylene	Polypipe	460	96.400	94.450	93.850	1.800	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.20
FD15	TYPE D	Polypropylene	Polypipe	460	96.550	95.150	95.050	1.250	1:48	Class B125 - 460Ø	uPVC	Polypipe	150	4.80
FD16	TYPE D	Polypropylene	Polypipe	460	97.150	95.700	95.000	1.300	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	7.60
FD17	TYPE D	Polypropylene	Polypipe	460	97.050	95.650	95.000	1.250	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.80
FD18	TYPE D	Polypropylene	Polypipe	460	96.150	94.450	93.850	1.550	1:11	Class B125 - 460Ø	uPVC	Polypipe	150	6.60
FD19	TYPE D	Polypropylene	Polypipe	460	96.300	94.650	94.510	1.500	1:56	Class B125 - 460Ø	uPVC	Polypipe	150	7.90
FD20	TYPE D	Polypropylene	Polypipe	460	97.200	95.300	94.700	1.750	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.00
FD21	TYPE D	Polypropylene	Polypipe	460	96.300	95.100	94.750	1.050	1:19	Class B125 - 460Ø	uPVC	Polypipe	150	6.60
FD22	TYPE B	PCC	PCC	1200	96.150	94.150	93.640	1.850	1:13	Class D400 - 600 x 600	uPVC	Polypipe	150	6.70
FD23	TYPE D	Polypropylene	Polypipe	460	96.400	94.950	94.335	1.300	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.20
FD24	TYPE D	Polypropylene	Polypipe	460	97.300	95.650	95.045	1.500	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.10
FD25	TYPE D	Polypropylene	Polypipe	460	97.500	95.700	95.045	1.650	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	6.60
FD26	TYPE D	Polypropylene	Polypipe	460	99.600	97.900	97.395	1.550	1:12	Class B125 - 460Ø	uPVC	Polypipe	150	5.90
FD27	TYPE D	Polypropylene	Polypipe	460	100.000	98.350	97.395	1.500	1:10	Class B125 - 460Ø	uPVC	Polypipe	150	9.70
FD28	TYPE D	Polypropylene	Polypipe	460	98.600	97.100	97.000	1.350	1:73	Class B125 - 460Ø	uPVC	Polypipe	150	7.30
FD29	TYPE D	Polypropylene	Polypipe	460	100.350	99.150	98.900	1.050	1:20	Class B125 - 460Ø	uPVC	Polypipe	150	5.00
FD30	TYPE D	Polypropylene	Polypipe	460	102.600	100.800	100.250	1.650	1:12	Class B125 - 460Ø	uPVC	Polypipe	150	6.50
FD31	TYPE D	Polypropylene	Polypipe	460	104.900	103.400	103.260	1.350	1:54	Class B125 - 460Ø	uPVC	Polypipe	150	7.60

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GENERAL NOTES:-

1. DO NOT USE THIS DRAWING IN ISOLATION. THIS DRAWING HAS BEEN PREPARED AS PART OF A SET, AND MUST THEREFORE BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORKS.
2. THIRD PARTY INFORMATION IS USED TO PREPARE THE ENGINEERING DESIGN (INCLUDING, ARCHITECTURAL LAYOUT, GROUND INVESTIGATION, EXISTING UTILITIES RECORDS, AND SPECIALIST DESIGN ITEMS). THE ENGINEERING DESIGN MUST THEREFORE BE READ IN CONJUNCTION WITH ALL THIRD PARTY INFORMATION PRIOR TO COMMENCING WORK. QUEENSBERRY DESIGN LTD ARE NOT RESPONSIBLE FOR ANY THIRD PARTY INFORMATION OR DETAILS.
3. DRAWING STATUS WILL REMAIN PRELIMINARY UNTIL FULL TECHNICAL APPROVAL IS RECEIVED FROM LOCAL AUTHORITY AND SEWERAGE UNDERTAKER. WORKS COMMENCED PRIOR TO TECHNICAL APPROVAL ARE DONE SO AT RISK AND MAY BE SUBJECT TO CHANGE.
4. THE CONTRACTOR IS EXPECTED TO PREPARE APPROPRIATE CONSTRUCTION METHOD STATEMENTS FOR ALL ASPECTS OF APPOINTED WORK. THIS SHOULD INCLUDE ANY TEMPORARY PROTECTION / WORKS.
5. LAND DRAINAGE IS NOT PERMITTED TO DISCHARGE INTO THE PUBLIC SEWER NETWORK. ANY NEED FOR LAND DRAINAGE SHOULD BE ASSESSED BY THE GROUND WORKER AND LANDSCAPER DURING CONSTRUCTION AND PLACEMENT OF GARDENS ON AN INDIVIDUAL PLOT BASIS. IF LAND DRAINAGE DESIGNS ARE REQUIRED, THEY SHOULD BE APPOINTED PRIOR TO PLOT COMPLETION.
6. THE CONTRACTOR IS EXPECTED TO CROSS CHECK ALL DRAINAGE INVERTS PRIOR TO COMMENCING WORK, THIS MAY INVOLVE COMPLETION OF TRIAL HOLES IF INVERT LEVELS HAVE BEEN INTERPOLATED. THE POSITION, LINE AND DIAMETER OF ALL EXISTING DRAINAGE APPARATUS SHOULD BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORKS. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR MUST MONITOR THE "AS BUILT" PROGRESS OF EACH CONSTRUCTION STAGE (ROADS/SEWERS/PLOT WORKS ETC), TO ENABLE THE NEXT STAGES OF CONSTRUCTION TO BE CHECKED BEFORE INSTALLATION.

HIGHWAYS

1. ALL HIGHWAY WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT LOCAL AUTHORITY DESIGN GUIDE AND SPECIFICATION
2. ALL EXCAVATIONS BELOW PROPOSED AND EXISTING HIGHWAYS TO BE BACK FILLED WITH GRANULAR TYPE 1 SUB BASE AND WELL COMPACTED IN LAYERS NOT EXCEEDING 150MM, UNLESS OTHERWISE AGREED.
3. HIGHWAY AUTHORITY TO BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.

ADOPTABLE DRAINAGE

1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTION". THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600MM AND SHALL BE CLASS D400 TO BS EN 124 WITH 150MM DEEP FRAMES IN HIGHWAYS
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT
4. YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN-DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY, LAND DRAINAGE SECTION REGARDING THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUN-OFF
5. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1M AND MANHOLES 0.5M FROM KERB FACES AND SERVICE MARGINS
6. SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
7. SEWERS TO BE LAID IN CLASS "S" BEDDING (150MM GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2M IN HIGHWAYS AND VERGES (OR LESS THAN 900MM IN NONVEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND
8. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
9. YORKSHIRE WATER POLICY IS THAT TYPE "C" BRICK MANHOLES AND 1050MM DIAMETER MANHOLE RINGS ARE NOT PREFERRED. INSTEAD, IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200MM DIAMETER OR 1500MM DIAMETER RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5M
10. ADOPTABLE PLASTIC SEWER PIPES TO BE BSI KITEMARKED (CERTIFIED TO WIS 4-35-01 AND BS/EN13476). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD REQUIRE CLAY WARE CHANNEL IN MANHOLES
11. THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100MM DIA. 40KN/M, 150MM DIA. 40KN/M, 225MM DIA. 45KN/M AND 300MM DIA. 72KN/M. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS120 TO EN 1916/BS5911-1 2002). PLASTIC PIPES SHOULD CONFORM TO WIS 4-35-01 AND BS EN13476
12. WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE
13. THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES, APPROX. 300MM : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED".

EXISTING SERVICES

PRIOR TO THE COMMENCEMENT OF ANY WORKS UNDER GROUND MAPPING SURVEYS AND CONSTRAINTS PLAN IS TO BE REFERED TO ANY DISCREPANCIES ARE TO BE REPORTED TO ENGINEER.

ANY EXISTING SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS SHOULD BE LOCATED BY MEANS OF A HAND DIG IN CLOSE LIAISON WITH THE STATUTORY SERVICE AUTHORITIES. THE CONTRACTOR SHALL INFORM THE DEVELOPER OF ANY SERVICES THAT MAY AFFECT THE PROPOSED DESIGN. CONTRACTOR TO NOTIFY STATUTORY SERVICE AUTHORITIES PRIOR TO COMMENCEMENT OF WORK. AS CONSTRUCTED INFORMATION IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE FOLLOWING AS CONSTRUCTED DRAWINGS TO THE DEVELOPER UPON THE COMPLETION OF THE WORKS COVERED BY THE CONTRACT :-

1. POSITION/CO-ORDINATES OF ALL ADOPTABLE MANHOLES.
2. INVERT AND COVER LEVELS OF ALL ADOPTABLE MANHOLES.
3. NEW GULLY POSITIONS AND CONNECTIONS.
4. POSITION AND DEPTH OF SERVICE DUCTS FOR WATER, GAS, ELECTRIC, BT, CABLE AND STREET LIGHTING, STATING SIZE AND NUMBER OF DUCTS.

Rev.	Date	Revision Details	Drawn	Checked
C	06.09.23	YORKSHIRE WATER COMMENTS ADDED	ND	ND
B	21.04.23	MINOR UPDATES TO PLANNING APPROVED LAYOUT	ND	ND
A	01.03.22	SITE RE-DESIGNED TO NEW PLANNING LAYOUT AND FLOOD RISK / SURFACE WATER DRAINAGE DESIGN REQUIREMENTS	ND	ND
-	18.02.22	FIRST ISSUE	ND	ND

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Project
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Title
MANHOLES SCHEDULES

Drawn	Checked	Date
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