

SW MANHOLE SCHEDULE										
MH	COORDINATES	DETAILS	DEPTH	DEPTH TO SOFFIT	PIPES IN	PIPES OUT	DIAMETER	TYPE	COVER	COMMENTS
SW 1.00	E: 435893.488 N: 408331.998	CL: 100.862 IL: 99.500 INV OUT = 99.500	1.362	0.987		1,000, 375Ø IL: 99.500	1500	MANHOLE TYPE B1/E	D400	
SW 1.01	E: 435863.379 N: 408324.345	CL: 101.722 IL: 99.112 INV IN = 99.112 INV OUT = 99.112	2.610	2.235	1,000, 375Ø IL: 99.112	1,001, 375Ø IL: 99.112	1500	MANHOLE TYPE B	D400	
SW 1.02	E: 435846.681 N: 408329.701	CL: 102.202 IL: 98.995 INV IN = 98.995 INV OUT = 98.995	3.207	2.832	1,001, 375Ø IL: 98.995	1,002, 375Ø IL: 98.995	1500	MANHOLE TYPE B	D400	
SW 1.03	E: 435858.705 N: 408367.184	CL: 102.359 IL: 98.733 INV IN = 98.733 INV OUT = 98.733	3.626	3.251	1,002, 375Ø IL: 98.733	1,003, 375Ø IL: 98.733	1500	MANHOLE TYPE A	D400	
SW 1.04	E: 435860.974 N: 408382.372	CL: 102.153 IL: 98.465 INV IN = 98.540 INV IN = 98.615 INV OUT = 98.465	3.688	3.238	1,003, 375Ø IL: 98.540 2,000, 300Ø IL: 98.615	1,004, 450Ø IL: 98.465	1500	MANHOLE TYPE A	D400	
SW 1.05	E: 435855.799 N: 408417.594	CL: 101.611 IL: 98.287 INV IN = 98.287 INV OUT = 98.287	3.324	2.874	1,004, 450Ø IL: 98.287	1,005, 450Ø IL: 98.287	1500	MANHOLE TYPE B	D400	
SW 1.06	E: 435857.011 N: 408435.681	CL: 101.281 IL: 98.196 INV IN = 98.196 INV OUT = 98.196	3.085	2.635	1,005, 450Ø IL: 98.196	1,006, 450Ø IL: 98.196	1500	MANHOLE TYPE B	D400	
SW 1.07	E: 435857.173 N: 408436.026	CL: 100.931 IL: 98.094 INV IN = 98.094 INV OUT = 98.094	2.837	2.387	1,006, 450Ø IL: 98.094	1,007, 450Ø IL: 98.094	1500	MANHOLE TYPE B	D400	
SW 1.08	E: 435853.286 N: 408486.458	CL: 100.395 IL: 97.911 INV IN = 97.911 INV OUT = 97.911	2.484	2.034	1,007, 450Ø IL: 97.911	1,008, 450Ø IL: 97.911	1500	MANHOLE TYPE B	D400	
SW 1.09	E: 435851.871 N: 408545.027	CL: 99.470 IL: 97.444 INV IN = 97.444 INV OUT = 97.444	2.026	1.576	1,008, 450Ø IL: 97.444	1,009, 450Ø IL: 97.444	1500	MANHOLE TYPE B	D400	
SW 1.10	E: 435849.426 N: 408552.877	CL: 99.387 IL: 97.403 INV IN = 97.403 INV OUT = 97.403	1.984	1.534	1,009, 450Ø IL: 97.403	1,010, 450Ø IL: 97.403	1500	MANHOLE TYPE B	D400	
SW 1.11	E: 435843.844 N: 408558.224	CL: 99.316 IL: 97.364 INV IN = 97.364 INV OUT = 97.364	1.952	1.502	1,010, 450Ø IL: 97.364	1,011, 450Ø IL: 97.364	1500	MANHOLE TYPE B	D400	
SW 1.12	E: 435815.861 N: 408570.144	CL: 99.013 IL: 97.212 INV IN = 97.212 INV IN = 97.363 INV OUT = 97.212	1.801	1.351	1,011, 450Ø IL: 97.212 3,000, 300Ø IL: 97.363	1,012, 450Ø IL: 97.212	1500	MANHOLE TYPE B1/E	D400	
SW 1.13	E: 435815.636 N: 408579.832	CL: 98.775 IL: 97.164 INV IN = 97.164 INV OUT = 97.164	1.611	1.161	1,012, 450Ø IL: 97.164	1,013, 450Ø IL: 97.164	1500	MANHOLE TYPE B1/E	D400	
SW 1.14	E: 435807.751 N: 408579.696	CL: 99.220 IL: 95.774 INV IN = 97.124 INV OUT = 95.774	3.446	1.646	1,013, 450Ø IL: 97.124	1,014, 1800Ø IL: 95.774	N/A	N/A	D400	TANK INLET
SW 1.15	E: 435807.751 N: 408598.626	CL: 98.665 IL: 95.736 INV IN = 95.736 INV OUT = 95.736	2.929	1.129	1,014, 1800Ø IL: 95.736	1,015, 900Ø IL: 95.736	N/A	N/A	D400	TANK OUTLET
SW 1.16	E: 435815.196 N: 408598.799	CL: 98.300 IL: 95.699 INV IN = 95.699 INV OUT = 95.699	2.601	1.701	1,015, 900Ø IL: 95.699	1,016, 900Ø IL: 95.699	2100	MANHOLE TYPE B	D400	
SW 1.17	E: 435814.567 N: 408625.962	CL: 97.620 IL: 95.513 INV IN = 95.563 INV OUT = 95.513	2.107	1.207	1,016, 900Ø IL: 95.563	1,017, 225Ø IL: 95.513	2100	MANHOLE TYPE B	D400	
SW 1.18	E: 435817.537 N: 408633.863	CL: 97.500 IL: 95.382 INV IN = 95.382	2.118	1.893	1,017, 225Ø IL: 95.382		1200	MANHOLE TYPE B	D400	
SW 2.00	E: 435879.766 N: 408382.372	CL: 101.536 IL: 99.555 INV OUT = 99.555	1.981	1.681		2,000, 300Ø IL: 99.555	1200	MANHOLE TYPE B	D400	
SW 3.00	E: 435783.797 N: 408569.329	CL: 100.485 IL: 99.112 INV OUT = 99.112	1.373	1.073		3,000, 300Ø IL: 99.112	1200	MANHOLE TYPE B	D400	

FW MANHOLE SCHEDULE										
MH	COORDINATES	DETAILS	DEPTH	DEPTH TO SOFFIT	PIPES IN	PIPES OUT	DIAMETER	TYPE	COVER	COMMENTS
FW 1.00	E: 435890.887 N: 408330.036	CL: 100.916 IL: 99.200 INV OUT = 99.200	1.716	1.566		1,000, 150Ø IL: 99.200	1200	MANHOLE TYPE B	D400	
FW 1.01	E: 435862.100 N: 408322.708	CL: 101.708 IL: 98.829 INV IN = 98.829 INV OUT = 98.829	2.879	2.729	1,000, 150Ø IL: 98.829	1,001, 150Ø IL: 98.829	1200	MANHOLE TYPE B	D400	
FW 1.02	E: 435844.316 N: 408328.248	CL: 102.220 IL: 98.596 INV IN = 98.596 INV OUT = 98.596	3.624	3.474	1,001, 150Ø IL: 98.596	1,002, 150Ø IL: 98.596	1200	MANHOLE TYPE A	D400	
FW 1.03	E: 435857.319 N: 408369.191	CL: 102.386 IL: 98.167 INV IN = 98.167 INV OUT = 98.167	4.219	4.069	1,002, 150Ø IL: 98.167	1,003, 150Ø IL: 98.167	1200	MANHOLE TYPE A	D400	
FW 1.04	E: 435859.232 N: 408380.767	CL: 102.218 IL: 98.049 INV IN = 98.049 INV IN = 98.049 INV OUT = 98.049	4.169	4.019	1,003, 150Ø IL: 98.049 2,000, 150Ø IL: 98.049	1,004, 150Ø IL: 98.049	1200	MANHOLE TYPE A	D400	
FW 1.05	E: 435853.980 N: 408420.365	CL: 101.600 IL: 97.650 INV IN = 97.650 INV OUT = 97.650	3.950	3.800	1,004, 150Ø IL: 97.650	1,005, 150Ø IL: 97.650	1200	MANHOLE TYPE A	D400	
FW 1.06	E: 435855.513 N: 408437.342	CL: 101.301 IL: 97.479 INV IN = 97.479 INV OUT = 97.479	3.822	3.672	1,005, 150Ø IL: 97.479	1,006, 150Ø IL: 97.479	1200	MANHOLE TYPE A	D400	
FW 1.07	E: 435855.479 N: 408457.381	CL: 100.940 IL: 97.279 INV IN = 97.279 INV OUT = 97.279	3.661	3.511	1,006, 150Ø IL: 97.279	1,007, 150Ø IL: 97.279	1200	MANHOLE TYPE A	D400	
FW 1.08	E: 435851.800 N: 408484.167	CL: 100.474 IL: 97.009 INV IN = 97.009 INV OUT = 97.009	3.465	3.315	1,007, 150Ø IL: 97.009	1,008, 150Ø IL: 97.009	1200	MANHOLE TYPE A	D400	
FW 1.09	E: 435850.514 N: 408543.220	CL: 99.524 IL: 96.418 INV IN = 96.418 INV OUT = 96.418	3.106	2.956	1,008, 150Ø IL: 96.418	1,009, 150Ø IL: 96.418	1200	MANHOLE TYPE B	D400	
FW 1.10	E: 435848.436 N: 408550.935	CL: 99.445 IL: 96.338 INV IN = 96.338 INV OUT = 96.338	3.107	2.957	1,009, 150Ø IL: 96.338	1,010, 150Ø IL: 96.338	1200	MANHOLE TYPE B	D400	
FW 1.11	E: 435843.970 N: 408555.885	CL: 99.377 IL: 96.271 INV IN = 96.271 INV OUT = 96.271	3.106	2.956	1,010, 150Ø IL: 96.271	1,011, 150Ø IL: 96.271	1200	MANHOLE TYPE B	D400	
FW 1.12	E: 435817.618 N: 408567.577	CL: 99.064 IL: 95.982 INV IN = 95.982 INV IN = 95.983 INV OUT = 95.982	3.082	2.932	1,011, 150Ø IL: 95.982 3,000, 150Ø IL: 95.983	1,012, 150Ø IL: 95.982	1200	MANHOLE TYPE B	D400	
FW 1.13	E: 435817.615 N: 408582.013	CL: 98.671 IL: 95.838 INV IN = 95.838 INV IN = 95.839 INV OUT = 95.838	2.833	2.683	1,012, 150Ø IL: 95.838 4,000, 150Ø IL: 95.839	1,013, 150Ø IL: 95.838	1200	MANHOLE TYPE B	D400	
FW 1.14	E: 435828.126 N: 408582.180	CL: 99.000 IL: 95.707 INV IN = 95.707	3.293	3.143	1,013, 150Ø IL: 95.707	TO WET WELL 150Ø 95.707	1500	MANHOLE TYPE A	D400	PUMP INLET, PDAS DWG's PR10517 001-007
FW 2.00	E: 435878.123 N: 408380.767	CL: 101.631 IL: 98.994 INV OUT = 98.994	2.637	2.487		2,000, 150Ø IL: 98.994	1200	MANHOLE TYPE B	D400	
FW 3.00	E: 435787.462 N: 408567.577	CL: 100.346 IL: 98.496 INV OUT = 98.496	1.850	1.700		3,000, 150Ø IL: 98.496	1200	MANHOLE TYPE B	D400	
FW 4.00	E: 435817.249 N: 408604.081	CL: 98.115 IL: 96.842 INV OUT = 96.842	1.273	1.123		4,000, 150Ø IL: 96.842	1200	MANHOLE TYPE B1/E	D400	
FW 5.00	E: 435813.004 N: 408418.681	CL: 103.659 IL: 102.238 INV OUT = 102.238	1.421	1.271	ISING MAIN 110Ø IL: 102.278	5,000, 150Ø IL: 102.238	1500	MANHOLE TYPE B1/E	D400	
WET WELL	E: 435828.233 N: 408578.349	CL: 99.000 IL: 93.600 INV IN = 95.697	5.400	3.303	INLET MANHOLE 150Ø IL:95.697	TO VALVE CHAMBER 110Ø 97.600	2400			WET WELL, PDAS DWG's PR10517 001-007
VALVE CHAMBER	E: 435828.361 N: 408573.777	CL: 99.000 IL: 97.240 INV IN/OUT = 97.600	1.760	1.290	WET WELL 110Ø IL:97.600	ISING MAIN 110Ø 97.600	2400x1800 OPENING			VALVE CHAMBER, PDAS DWG's PR10517 001-007

YORKSHIRE WATER NOTES:

- ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION" 6TH EDITION, THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATERS STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
- MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600MM AND SHALL BE CLASS D400 TO BS EN 124 WITH 150MM DEEP FRAMES IN HIGHWAYS.
- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ADAPTABLE 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 WITH REGARD TO THE DISPOSAL OF THE FILTER DRAIN/LAND DRAINAGE RUN-OFF.
- COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME. A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600MM X 600MM FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA) 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
- SULPHATE RESISTANT CEMENT (C20/DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
- THE ADAPTABLE SEWERS SHOULD BE A MINIMUM OF 1M AND MANHOLES 0.5M FROM KERB FACES AND SERVICE MARGINS.
- "SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES (PLEASE ALSO REFER TO FIGURE 2.3 ON PAGE 33 IN "SEWERS FOR ADOPTION" 6TH EDITION FOR RESTRICTIONS ON TREE PLANTING ADJACENT TO SEWERS)".
- 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 NONE VEHICULAR ACCESS THEN A CONCRETE SLAB SHOULD BE PROVIDE ABOVE GRANULAR BED AND SURROUND.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
- YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE "C" BRICK MANHOLES AND 1050MM DIA MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200MM DIA OR 1500MM DIA RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5M.
- 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.

P14	PUMP STATION INFO ADDED	JS	EM	VB	03.07.20
No.	Revision	Drawn	Job Manager	Project Director	Date

Drawing Revisions
Note: * indicates signatures on original issue of drawing or last revision of drawing

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1st Floor, 1 Farnham Road,
Guildford, GU2 4RG, United Kingdom
T 44 (0)20 3077 7986
E UKmail@ghd.com W www.ghd.com

Client	KEEPMOAT HOMES				
Project	CARLTON ROAD, BARNSELEY				
Title	MANHOLE SCHEDULE				
Scale	AS SHOWN		DO NOT SCALE		
Drawn	JS		Designer	JS	
Drafting Check	NT		Design Check	NT	

PRELIMINARY