

SURFACE WATER NETWORK						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
OUTFALL	385737.676	405379.087	225MM 1.007 INV. 70.300	-	-	-
SW1	385891.455	405532.851	300MM 1.000 INV. 74.000	76.476	1,350 2.178	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW2	385868.451	405479.880	300MM 1.000 INV. 72.127 600MM 1.001 INV. 71.827	75.652	1,800 3.225	DCG TYPE A FIG B7 SINGLE 600x600 CLEAR OPENING
SW3	385857.967	405455.748	600MM 1.001 INV. 71.761 900MM 1.002 INV. 71.461 600MM 2.001 INV. 71.761	75.066	2,400 2.705	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW4	385822.478	405470.459	900MM 1.002 INV. 71.364 900MM 1.003 INV. 71.364	75.583	2,400 3.319	DCG TYPE A FIG B7 SINGLE 600x600 CLEAR OPENING
SW5	385804.227	405478.222	900MM 1.003 INV. 71.313 1200MM 1.004 INV. 71.013 750MM 3.001 INV. 71.463	75.038	3,000 2.825	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW6	385779.916	405423.878	1200MM 1.004 INV. 70.863 1200MM 1.005 INV. 70.863	74.000	2,700 1.937	UU SHALLOW MH DETAIL 4 DOUBLE 1220x685 CLEAR OPENING
SW7	385773.002	405403.485	1200MM 1.005 INV. 70.810 1200MM 1.006 INV. 70.810	73.750	2,700 1.740	UU SHALLOW MH DETAIL 4 DOUBLE 1220x685 CLEAR OPENING
SW8 STORMBRAKE	385771.465	405387.615	1200MM 1.006 INV. 70.769 225MM 1.007 INV. 70.769	73.650	2,700 1.681	UU DETAIL 5 DOUBLE 1200x675
SW9	385863.413	405427.284	300MM 2.000 INV. 72.300	73.648	1,350 1.048	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING
SW10	385857.560	405443.371	600MM 2.001 INV. 71.850 300MM 2.000 INV. 72.150	74.611	1,800 2.161	UU SHALLOW MH DETAIL 4 DOUBLE 1220x685 CLEAR OPENING
SW11	385838.774	405520.456	750MM 3.000 INV. 71.688	76.636	2,400 4.198	DCG TYPE A FIG B7 SINGLE 600x600 CLEAR OPENING
SW12	385821.743	405515.364	750MM 3.000 INV. 71.638 750MM 3.001 INV. 71.638	76.316	2,400 3.928	DCG TYPE A FIG B7 SINGLE 600x600 CLEAR OPENING

FOUL NETWORK						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
FW1	385894.003	405532.672	150MM 1.000 INV. 74.029	76.549	1,350 2.370	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW2	385865.605	405466.523	150MM 1.000 INV. 73.000 150MM 1.001 INV. 73.000	75.494	1,200 2.344	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW3	385860.392	405452.799	150MM 1.001 INV. 72.883 150MM 1.002 INV. 72.883	75.064	1,200 2.031	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW5	385804.901	405475.320	150MM 1.002 INV. 72.404 150MM 1.003 INV. 72.404	75.034	1,200 2.480	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW6	385787.857	405435.485	150MM 1.003 INV. 72.057 150MM 1.004 INV. 72.057	74.186	1,200 1.979	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW7	385781.096	405420.321	150MM 1.004 INV. 71.625 150MM 1.005 INV. 71.625	73.950	1,200 2.175	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW8	385774.619	405400.986	150MM 1.005 INV. 71.442 150MM 1.006 INV. 71.442	73.700	1,200 2.088	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW9	385778.817	405380.220	150MM 1.006 INV. 71.000 150MM 1.007 INV. 71.000	73.800	1,200 2.650	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW10	385781.312	405368.025	150MM 1.007 INV. 70.150	71.370	1,200 1.070	EXISTING EXISTING

DIVERSION						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
D1	385935.158	405552.320	300MM 1.000 INV. 75.660	76.545	1,200 0.585	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING
D2	385904.451	405572.805	300MM 1.000 INV. 75.414 300MM 1.001 INV. 75.414	78.863	1,200 3.149	DCG TYPE A FIG B7 SINGLE 600x600 CLEAR OPENING
D3	385885.693	405563.406	300MM 1.001 INV. 75.274 300MM 1.002 INV. 75.274	78.405	1,200 2.831	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D4	385883.065	405565.261	300MM 1.002 INV. 75.253 300MM 1.003 INV. 75.253	78.435	1,200 2.882	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D5	385855.043	405555.560	300MM 1.003 INV. 75.055 300MM 1.004 INV. 75.055	77.909	1,200 2.554	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D6	385813.800	405545.626	300MM 1.004 INV. 74.772 300MM 1.005 INV. 74.772	76.772	1,200 1.700	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING
D7	385805.063	405522.028	300MM 1.005 INV. 74.694 300MM 1.006 INV. 74.692	76.192	1,200 1.288	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING
D8	385806.265	405503.816	300MM 1.006 INV. 74.143 300MM 1.007 INV. 74.143	75.643	1,200 1,200	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING
D9	385797.640	405482.938	300MM 1.007 INV. 73.630	75.130	1,200 1,200	UU SHALLOW MH DETAIL 3 DOUBLE 1220x685 CLEAR OPENING

- NOTES:
- ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION 2.1 VERSION AND UNITED UTILITIES GUIDELINES AND STANDARD DETAILS.
 - DRAWING IS SUBJECT TO APPROVAL BY UNITED UTILITIES UNDER A SECTION 10A AGREEMENT AND CONSTRUCTION WORKS UNDERTAKEN PRIOR TO TECHNICAL APPROVAL ARE AT THE DEVELOPERS RISK.
 - ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE TOPOGRAPHIC SURVEY DRAWING '02591/TOP0' BY GEOMATIC SURVEYS LTD.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND VERIFYING ALL THE EXISTING DRAINAGE CRITICAL TO THE PROPOSED SCHEME PRIOR TO COMMENCING ANY WORK AS FOLLOWS:
 - * MANHOLE OUTFALL LOCATIONS
 - * OUTFALL INVERT LEVELS
 - * OUTFALL PIPE DIAMETERS
 - * INTER-CONNECTION OF SEWERS
 - ANY INACCURACIES OR INCONSISTENCIES ON THE DRAWING RESULTING FROM THE FINDINGS SHALL BE REPORTED TO THE ENGINEER.
 - PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR APPARATUS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES. THE CONTRACTOR WILL NOTIFY THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.
 - THE PROPOSED SEWERS WILL BE CLAY PIPE WORK AND SHALL BE EXTRA STRENGTH TO BS EN 295:1991 PART 1.
 - ANY PCC PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.
 - THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES COVERED BY BS EN 13476-2, B.S 4660:200 & B.S EN 1401-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35-01 UP TO AND INCLUDING 300MM. MAX PIPE LENGTH TO BE 3.0M.
 - ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS EN 1917:2002
 - ADAPTABLE SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE CLASS 5 GRANULAR BED AND SURROUND
 - ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9m TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150mm GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXICELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT
 - ALL PIPES BUILT INTO THE MANHOLE INVERTS SHALL BE INSTALLED WITH SOFFITS LEVEL, UNLESS SHOWN OTHERWISE.
 - THE CONNECTION TO THE ADAPTABLE SEWER SHALL BE MANUFACTURED JUNCTION PIPES. A SADDLE CONNECTION IS NOT PERMITTED UNLESS IT IS CLEARLY SPECIFIED.
 - CONNECTIONS TO THE EXISTING PUBLIC SEWER WILL BE IN ACCORDANCE WITH APPROVAL GRANTED BY THE STATUTORY UNDERTAKER.
 - PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM DIAMETER AND LAID TO THE SPECIFIED INVERT.
 - THE INVERT LEVELS SPECIFIED AT THE DRAG OUT CHAMBER ARE INCOMING LEVELS.
 - A PROTECTIVE GEOTEXTILE/PLASTIC MEMBRANE IS TO BE APPLIED TO ALL FOUL SEWERS LAID ABOVE STORM SEWERS WITH LESS THAN 500MM OF COVER
 - CENTRE OF MANHOLES MAY NOT BE AT THE SAME LOCATION AS PIPE INTERSECTION OR AS SHOWN IN THE LAYOUT. THE MANHOLE RINGS SHALL BE ADJUSTED OVER THE MANHOLE BASE TO SATISFY THE FOLLOWING REQUIREMENTS:
 - * CLEARANCE FROM THE ADJACENT PIPE WORK
 - * CLEARANCE FROM THE KERB LINE (THE BISCUIT OF THE MANHOLE SHALL NOT PROJECT UNDER THE ROAD CHANNEL LINE).
 - * TO PROVIDE THE MINIMUM STANDING SPACE ON THE BENCHING AND THEREBY LOCATE THE MANHOLE COVER AND ENTRY ACCESS.
 - * TO PROVIDE THE MINIMUM 250MM OF BEARING FOR THE MANHOLE RING OVER THE CAST IN STUB PIPES.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LIMSE WITH THE HIGHWAY AND SEWERAGE AUTHORITIES FOR APPROVALS, INTERIM INSPECTION, SNAGGING AND FINAL INSPECTIONS OF THEIR WORK TO ADAPTABLE STANDARDS.
 - AT THE CONCLUSION OF THE WORKS THE CONTRACTOR SHALL PROVIDE A MARKED UP DRAWING TO RECORD ANY AS BUILT VARIATIONS NOT SHOWN ON THE DRAWINGS.

POS 20.03.25 Amended SW8 flow control details.		H.S. R.A.	
PO4 24.02.25 Amended to site layout 49, and client comments.		H.S. R.A.	
PO3 16.01.25 Lowered FW1 IL		H.S. R.A.	
PO2 12.12.24 Updated in line with site layout rev 47		H.S. R.A.	
PO1 03.02.21 PRELIMINARY - Issued for Information		J.C. R.A.	
Rev	Date	Description	By Cbk
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Project Name NORTH MANCHESTER GOLF CLUB			
Client DUCHY HOMES			
Designed R.A	Drawn J.C	Checked R.A	Scale @ A1 N/A
Drawing Title MANHOLE SCHEDULES			
Project No. 210701		PRELIMINARY NOT FOR CONSTRUCTION Drawing No. Revision	
210701-EDGE-XX-XX-DR-C-2101		P05	

FILENAME

PLOT DATE

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