

SURFACE WATER NETWORK						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
SW1	385891.822	405532.638	1200MM 1.000 INV. 72.180	76.486	2.700 3.106	DCG TYPE A FIG B24 SINGLE 600x600 CLEAR OPENING
SW2	385869.076	405479.679	1200MM 1.000 INV. 72.036 1200MM 1.001 INV. 72.036	75.662	2.700 2.426	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW3	385857.967	405455.748	300MM 1.002 INV. 71.930 300MM 1.003 INV. 71.930 300MM 2.001 INV. 71.930	75.066	1.500 2.836	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW2A	385863.504	405466.670	1200MM 1.001 INV. 72.000 300MM 1.002 INV. 72.000	75.427	2.700 2.227	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW5	385804.227	405478.222	300MM 1.003 INV. 71.670 1200MM 1.004 INV. 71.013	75.038	3.000 3.068	DCG TYPE A FIG B24 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	DCG TYPE B FIG 10 SINGLE 600x600 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	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW8 STORMBRAKE	385771.445	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	385863.587	405427.160	300MM 2.000 INV. 72.189	73.639	1.800 1.150	DCG TYPE C FIG 15 DOUBLE 1220x685 CLEAR OPENING
SW10	385857.632	405443.374	300MM 2.001 INV. 72.039 300MM 2.000 INV. 72.039	74.611	1.800 2.272	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
SW13 OUTFALL	385734.218	405362.175	225MM 1.007 INV. 69.934 (TBC)	71.120	1.500 0.961	DCG TYPE C FIG 15 DOUBLE 1220x685 CLEAR OPENING

FOUL NETWORK						
MANHOLE NAME	EASTING	NORTHING	CONNECTED PIPES	COVER LEVELS	MANHOLE SIZE DEPTH TO SOFFIT	MANHOLE TYPE COVER TYPE
FW1	385894.339	405532.510	150MM 1.000 INV. 74.029	76.560	1.350 2.381	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
FW2	385865.879	405466.395	150MM 1.000 INV. 73.000 150MM 1.001 INV. 73.000	75.500	1.200 2.350	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. 71.489 150MM 1.006 INV. 71.489	73.700	1.200 2.061	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	450MM 1.000 INV. 75.660	77.349	1.500 1.289	DCG TYPE C FIG 15 DOUBLE 1220x685 CLEAR OPENING
D2	385904.451	405572.805	450MM 1.000 INV. 75.414 450MM 1.001 INV. 75.414	78.777	1.500 2.913	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D3	385885.693	405563.406	450MM 1.001 INV. 75.274 450MM 1.002 INV. 75.274	78.269	1.500 2.545	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D4	385883.065	405565.261	450MM 1.002 INV. 75.253 450MM 1.003 INV. 75.253	78.435	1.500 2.732	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D5	385855.043	405555.560	450MM 1.003 INV. 75.055 450MM 1.004 INV. 75.055	77.909	1.500 2.404	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D6	385813.800	405545.626	450MM 1.004 INV. 74.772 450MM 1.005 INV. 74.772	76.772	1.500 1.550	DCG TYPE B FIG 10 SINGLE 600x600 CLEAR OPENING
D7	385805.063	405522.028	450MM 1.005 INV. 74.604 450MM 1.006 INV. 74.692	76.192	1.500 1.138	DCG TYPE C FIG 15 DOUBLE 1220x685 CLEAR OPENING
D8	385806.265	405503.816	450MM 1.006 INV. 74.143 450MM 1.007 INV. 74.143	75.643	1.500 1.050	DCG TYPE C FIG 15 DOUBLE 1220x685 CLEAR OPENING
D9	385797.640	405482.938	450MM 1.007 INV. 73.630	75.130	1.500 1.050	DCG TYPE C FIG 15 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 ICOSA GUIDELINES AND STANDARD DETAILS.
- DRAWING IS SUBJECT TO APPROVAL BY ICOSA UNDER A SECTION 104 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/TOPO' 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
- 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 ICOSA. 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 2951991 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 REINFORCED CONCRETE SLAB PROTECTION AS PER DCG FIG B27.
- 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 LIAISE 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.
- ALL WORK BEFORE TECHNICAL APPROVAL IS AT DEVELOPERS RISK. INSPECTIONS CAN BE ARRANGED AS SOON AS THE CONTRACT WITH ICOSA/LAST MILE IS SIGNED.

P08 27.10.25	Updated to as-built information	M.A. R.A.
P07 30.09.25	Drainage re-design	M.A. R.A.
P06 04.09.25	Amended SW outfall, manhole types.	H.S. R.A.
P05 20.03.25	Amended SW8 flow control details.	H.S. R.A.
P04 24.02.25	Amended to site layout 49, and client comments.	H.S. R.A.
P03 16.01.25	Lowered FW1 IL	H.S. R.A.
P02 12.12.24	Updated in line with site layout rev 47	H.S. R.A.
P01 03.02.21	PRELIMINARY - Issued for Information	J.C. R.A.
Rev	Date	Description
By	Chk	
EDGE CONSULTING ENGINEERS www.edgece.com Manchester . UK 3rd Floor, Cornavon Court, 12 Blackfriars Street, Manchester, M3 9BQ, United Kingdom T: +44 (0) 161 834 1938 E: manchester@edgece.com The concepts + information contained in this document are the copyright of EDGE Consulting Engineers. Use or copying of this document in whole or in part without the written permission of EDGE Consulting Engineers constitutes an infringement of copyright. DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!		
Project Name NORTH MANCHESTER GOLF CLUB		
Client		
DUCHY HOMES		
Designed	Drawn	Checked
R.A	J.C	R.A
Drawing Title MANHOLE SCHEDULES		Scale @ A1 N/A
Project No. 210701		
Drawing No. 210701-EDGE-XX-XX-DR-C-2101		Revision P08
PRELIMINARY NOT FOR CONSTRUCTION		

FILENAME

PLOT DATE

0 mm 10 20 30 40 50