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SURFACE WATER MANHOLE SCHEDULE

SURFACE WATER SETTING OUT

Manhole Reference	Manhole Type / diameter (mm) *	Cover Level	Invert Level / (pipe diameter)	Depth to Invert	Depth to Soffit	Pipes In (mmØ)	Pipes Out (mmØ)	Easting	Northing
MHS01	Type E / 1200Ø	3.225	2.394 (300Ø) / 2.544 (150ØG)	0.831	0.531	150G / 150G	300	524711.665	324654.516
MHS02	Type E / 1200Ø	3.475	2.346 (300Ø)	1.129	0.829	300	300	524703.577	324676.878
MHS03	Type E / 1200Ø	3.350	2.312 (300Ø) / 2.462 (150ØG)	1.038	0.738	300 / 150G / 150G	300	524688.652	324685.018
MHS04	Type E / 1200Ø	3.500	2.405 (300Ø)	1.095	0.795	150	300	524631.197	324662.990
MHS05	Type E / 1200Ø	3.470	2.362 (300Ø) / 2.512 (150Ø)	1.108	0.808	300 / 150	300	524651.748	324669.309
MHS06	Type E / 1200Ø	3.400	2.345 (300Ø) / 2.495 (150ØG)	1.055	0.755	300 / 150G / 150G	300	524657.019	324675.901
MHS07	Type E / 1200Ø	3.275	2.320 (300Ø) / 2.470 (150Ø)	0.955	0.655	300 / 150	300	524668.788	324679.364
MHS08	Type E / 1200Ø	3.275	2.295 (300Ø)	0.980	0.680	300 / 300	300	524680.457	324683.236
MHS09	Type E / 1200Ø	3.425	2.277 (300Ø)	1.148	0.848	300	300	524677.258	324692.025
MHS10	Headwall (Pond)	3.400	2.414 (300Ø)	0.986	0.686	Pond	300	524652.808	324698.167
MHS11	Type E / 1200Ø	3.625	2.210 (300Ø) / 2.360 (150Ø)	1.415	1.115	300 / 300 / 150	300	524648.813	324708.477
MHS12	Type E / 1200Ø	3.675	2.213 (300Ø) / 2.363 (150ØG)	1.462	1.162	150G / 150G / 150	300	524639.895	324701.760
MHS13	Type E / 1200Ø	3.550	2.186 (300Ø)	1.364	1.064	300 / 300	300	524637.862	324714.654
MHS14	Type E / 1500Ø	3.325	2.140 (375Ø) / 2.140 (300Ø) / 2.190 (150Ø)	1.185	0.810	300 / 150 / 150G	375	524647.190	324735.477
MHS15	Type E / 1500Ø	3.085	2.094 (375Ø) / 2.319 (150Ø)	0.991	0.616	375 / 150 / 150	375	524658.615	324755.438
MHS16	Type B / 1500Ø	3.670	2.225 (450Ø) / 2.525 (150Ø)	1.445	0.995	150 / 150 / 150G / 150G	450	524556.937	324782.299
MHS17	Type B / 1500Ø	3.295	2.165 (450Ø) / 2.465 (150Ø)	1.130	0.680	450 / 150	450	524585.394	324791.594
MHS18	NOT USED								
MHS19	Type B / 1500Ø	3.215	2.177 (450Ø) / 2.477 (150ØG)	1.138	0.688	450 / 450	450	524588.013	324832.785
MHS20	Type B / 1500Ø	3.075	2.126 (450Ø)	0.949	0.499	450 / 450	450	524595.500	324808.546
MHS21	Type B / 1500Ø	3.475	2.043 (450Ø) / 2.343 (150Ø)	1.432	0.982	450 / 150	450	524632.232	324789.588
MHS22	Type B / 1500Ø	3.400	2.010 (450Ø) / 2.010 (375Ø)	1.390	0.940	450 / 375	450	524647.889	324795.159
MHS23	Type B / 1500Ø	3.150	1.951 (450Ø) / 2.251 (150Ø)	1.199	0.749	450 / 150	450	524675.983	324803.855
MHS24	Type B / 1500Ø	4.190	2.900 (450Ø) / 3.200 (150Ø)	1.290	0.840	150 / 150 / 150G / 150G / 150G	450	524795.519	324811.115
MHS25	Type B / 1500Ø	3.875	2.551 (450Ø) / 2.851 (150Ø)	1.324	0.874	450 / 150	450	524790.441	324836.902
MHS26	Type B / 1500Ø	3.885	2.528 (450Ø) / 2.828 (150Ø)	1.357	0.907	450 / 150 / 150	450	524785.439	324847.280
MHS27	Type B / 1500Ø	3.925	2.515 (450Ø)	1.410	0.960	450	450	524781.768	324852.524
MHS28	Type B / 1500Ø	4.075	2.253 (450Ø)	1.822	1.372	450	450	524771.970	324857.636
MHS29	Type B / 1500Ø	3.975	2.214 (450Ø) / 2.514 (150Ø)	1.761	1.311	450 / 150	450	524765.367	324851.305
MHS30	Type B / 1500Ø	3.675	2.150 (450Ø) / 2.450 (150Ø)	1.525	1.075	450 / 150	450	524742.257	324829.149
MHS31	Type B / 1500Ø	3.200	2.093 (450Ø) / 2.393 (150Ø)	1.107	0.657	150 / 150	450	524715.552	324788.069

SURFACE WATER MANHOLE SCHEDULE

SURFACE WATER SETTING OUT

Manhole Reference	Manhole Type / diameter (mm) *	Cover Level	Invert Level / (pipe diameter)	Depth to Invert	Depth to Soffit	Pipes In (mmØ)	Pipes Out (mmØ)	Easting	Northing
MHS32	Type B / 1500Ø	3.350	2.068 (450Ø) / 2.368 (150Ø)	1.282	0.832	450 / 150 / 150	450	524727.571	324791.766
MHS33	Type B / 1500Ø	3.300	2.029 (450Ø) / 2.329 (150Ø)	1.271	0.821	450 / 150 / 150	450	524722.841	324810.684
MHS34	NOT USED								
MHS35	Type B / 1800Ø	3.425	2.004 (450Ø) / 2.304 (150Ø)	1.421	0.971	450 / 450 / 150	450	524720.137	324822.886
MHS36	Type B / 1800Ø	3.075	1.927 (525Ø) / 1.927 (450Ø) / 2.302 150Ø)	1.148	0.623	450 / 450 / 150	525	524682.912	324813.729
MHS37	Headwall (Pond)	3.200	1.900 (525Ø)	1.300	0.775	Pond	525	524653.472	324866.976
MHS38	Type B / 1500Ø	3.200	2.122 (450Ø) / 2.422 (150Ø)	1.078	0.628	150 / 150 / 150 / 150G / 150G	450	524543.671	324861.574
MHS39	Type B / 1500Ø	3.170	2.101 (450Ø) / 2.401 (150Ø)	1.069	0.619	450 / 150 / 150G	450	524554.124	324862.556
MHS40	Type B / 1500Ø	3.250	2.063 (450Ø) / 2.363 (150Ø)	1.187	0.737	450 / 150 / 150	450	524571.355	324854.668
MHS41	Type B / 1500Ø	3.450	2.035 (450Ø) / 2.335 (150ØG)	1.415	0.965	450 / 150G	450	524583.859	324848.372
MHS42	Type B / 1500Ø	3.200	1.953 (450Ø) / 2.253 (150Ø)	1.247	0.797	450 / 150	450	524604.768	324883.819
MHS43	Type B / 1500Ø	3.050	1.902 (450Ø) / 2.202 (150Ø)	1.148	0.698	450 / 150	450	524629.322	324890.554
MHS44	Type B / 2400Ø	3.475	1.812 (600Ø / 525Ø / 525Ø / 450Ø)	1.663	1.063	450 / 525 / 525 / 150G / 150G	600	524669.230	324869.410
MHS45	Type B / 1800Ø	3.150	1.757 (600Ø) / 2.207 (150Ø)	1.393	0.793	600 / 150 / 150	600	524695.461	324877.166
MHS46	Type B / 1500Ø	3.025	1.702 (600Ø)	1.323	0.723	600	600	524721.267	324886.670
MHS47	Type B / 1500Ø	3.100	1.689 (600Ø) / 2.139 (150Ø)	1.411	0.811	600 / 150	600	524726.018	324891.299
MHS48	Type B / 1800Ø	3.350	1.642 (600Ø) / 2.092 (150Ø)	1.708	1.108	600 / 150 / 150	600	524735.912	324913.236
MHS49	Type B / 1500Ø	3.975	1.716 (450Ø) / 2.016 (150Ø)	2.259	1.809	150	450	524787.745	324917.448
MHS50	Type B / 1500Ø	3.915	1.709 (450Ø) / 2.009 (150ØG)	2.206	1.756	150 / 150G / 150G	450	524774.480	324882.078
MHS51	Type B / 1500Ø	3.715	1.662 (450Ø) / 1.962 (150Ø)	2.053	1.603	450 / 450 / 150	450	524764.658	324903.360
MHS52	Type B / 1800Ø	3.425	1.610 (675Ø) / 1.610 (600Ø) / 1.610 (450Ø)	1.815	1.140	600 / 450	675	524747.558	324923.160
MHS53	Type B / 1500Ø	3.275	1.570 (675Ø) / 2.095 (150Ø)	1.705	1.030	675 / 150	675	524762.194	324936.899
MHS54	Type B / 2100Ø	3.475	1.508 (675Ø) / 2.033 (150Ø)	1.967	1.292	675 / 150 / 150 / 150G	675	524768.783	324967.186
MHS55 (Pond)	Headwall	3.000	1.520 (450Ø)	1.480	1.030	Pond	450	524760.184	324977.295
MHS56	Type B / 1500Ø	3.185	1.576 (450Ø) / 1.876 (150Ø)	1.609	1.159	150G / 150G	450	524770.439	324994.317
MHS57	Type B / 1500Ø	3.325	1.557 (450Ø) / 1.857 (150Ø)	1.768	1.318	450 / 150G / 150G	450	524770.642	324985.421
MHS58	Type B / 2100Ø	3.480	1.498 (675Ø) / 1.498 (450Ø) / 2.023 (150Ø)	1.982	1.307	675 / 450 / 450	450	524769.848	324972.071
MHS59 (Pond)	Headwall	3.000	1.465 (450Ø)	1.535	1.085	Pond	450	524792.606	324974.525
MHS60	Hydrobrake / 2700Ø	3.450	1.450 (675Ø / 150Ø) / 1.675 (450Ø) Manhole base (1.035)	2.000 (2.415)	1.325	675 / 450	450	524793.834	324967.109
Outfall	Headwall	2.655	1.400 (150Ø)	1.255	1.105	150	150	524808.298	324968.681

SURFACE WATER DEMARCATION CHAMBER SCHEDULE

Manhole Reference	Manhole Type / diameter (mm) *	Cover Level	Invert Level	Depth to Invert	Depth to Soffit
DCS01	Inspection Chamber / 450Ø	3.550	2.526	1.024	0.874
DCS02	Inspection Chamber / 450Ø	3.535	2.516	1.019	0.869
DCS03	Inspection Chamber / 450Ø	3.600	2.385	1.215	1.065
DCS04	Inspection Chamber / 450Ø	3.700	2.410	1.290	1.140
DCS05	NOT USED				
DCS06	NOT USED				
DCS07	Inspection Chamber / 450Ø	3.135	2.364	0.771	0.621
DCS08	Inspection Chamber / 450Ø	3.975	2.641	1.334	1.184
DCS09	Inspection Chamber / 450Ø	3.800	2.556	1.244	1.094
DCS10	Inspection Chamber / 450Ø	3.500	2.525	0.975	0.825
DCS11	Inspection Chamber / 450Ø	3.450	2.492	0.958	0.808
DCS12	Inspection Chamber / 450Ø	3.555	2.376	1.179	1.029
DCS13	Inspection Chamber / 450Ø	3.360	2.650	0.710	0.560
DCS14	Inspection Chamber / 450Ø	4.280	3.293	0.987	0.837
DCS15	Inspection Chamber / 450Ø	4.485	3.465	1.020	0.870

SURFACE WATER DEMARCATION CHAMBER SCHEDULE

Manhole Reference	Manhole Type / diameter (mm) *	Cover Level	Invert Level	Depth to Invert	Depth to Soffit
DCS16	Inspection Chamber / 450Ø	4.025	3.291	0.734	0.584
DCS17	Inspection Chamber / 450Ø	3.960	3.197	0.763	0.613
DCS18	Inspection Chamber / 450Ø	4.035	3.122	0.913	0.763
DCS19	Inspection Chamber / 450Ø	4.050	2.544	1.506	1.356
DCS20	Inspection Chamber / 450Ø	3.585	2.508	1.077	0.927
DCS21	Inspection Chamber / 450Ø	3.450	2.447	1.003	0.853
DCS22	Inspection Chamber / 450Ø	3.400	2.420	0.980	0.830
DCS23	Inspection Chamber / 450Ø	3.500	2.462	1.038	0.888
DCS24	Inspection Chamber / 450Ø	3.450	2.376	1.074	0.924
DCS25	Inspection Chamber / 450Ø	3.450	2.700	0.750	0.600
DCS26	Inspection Chamber / 450Ø	3.800	2.575	1.225	1.075
DCS27	Inspection Chamber / 450Ø	3.300	2.700	0.600	0.450
DCS28	Inspection Chamber / 450Ø	3.400	2.537	0.863	0.713
DCS29	Inspection Chamber / 450Ø	3.300	2.516	0.784	0.634
DCS30	Inspection Chamber / 450Ø	3.500	2.490	1.010	0.860

SURFACE WATER DEMARCATION CHAMBER SCHEDULE

Manhole Reference	Manhole Type / diameter (mm) *	Cover Level	Invert Level	Depth to Invert	Depth to Soffit
DCS31	Inspection Chamber / 450Ø	3.358	2.455	0.903	0.753
DCS32	Inspection Chamber / 450Ø	3.320	2.400	0.920	0.770
DCS33	Inspection Chamber / 450Ø	3.335	2.395	0.940	0.790
DSC34	Inspection Chamber / 450Ø	3.390	2.295	1.095	0.945
DCS35	Inspection Chamber / 450Ø	3.250	2.252	0.998	0.848
DCS36	Inspection Chamber / 450Ø	3.275	2.250	1.025	0.875
DCS37	Inspection Chamber / 450Ø	3.350	2.535	0.815	0.665
DCS38	Inspection Chamber / 450Ø	3.350	2.206	1.144	0.994
DCS39	Inspection Chamber / 450Ø	3.350	2.130	1.220	1.070
DCS40	Inspection Chamber / 450Ø	3.585	2.154	1.431	1.281
DCS41	Inspection Chamber / 450Ø	3.974	2.040	1.934	1.784
DCS42	Inspection Chamber / 450Ø	3.880	2.028	1.852	1.702
DCS43	Inspection Chamber / 450Ø	3.735	2.059	1.676	1.526
DCS44	Inspection Chamber / 450Ø	3.342	2.135	1.207	1.057
DCS45	Inspection Chamber / 450Ø	3.485	2.081	1.404	1.254
DCS46	Inspection Chamber / 450Ø	3.675	2.071	1.604	1.454

REV	DATE	BY	DETAILS	CHK'D
D	16.12.15	JH	REVISED IN ACCORDANCE WITH ANGLIAN WATER AND SW DRAINAGE REVISED	JMcK
C	12.11.15	JH	REVISED IN ACCORDANCE WITH ANGLIAN WATER AND SW DRAINAGE REVISED	JMcK
B	04.08.15	JH	SCHEDULE UPDATED TO SUIT PLAN	JMcK
A	07.05.15	JH	ISSUED FOR TENDER	JMcK

A1 AMENDMENTS

NOTES

F	12.02.16	EP	UPDATED INACCORDANCE WITH LCC COMMENTS DATED 02/02/16.	JMcK
E	18.01.16	JH	MINOR REVS TO COVERS LEVELS S29 DEPTH TO INVERT AND SOFFIT UPDATED	JMcK

This drawing is to be read in conjunction with Millward drawings MA10002 particularly the following:-

MA10002 / 100 Overall Site Location / Key Plan
MA10002 / 201-1 to 6 Proposed Drainage Layout
MA10002 / 606-1 to 4 Carriage and Drainage Longitudinal Sections
Lincolnshire County Council Development Road Specification and Construction 2014 Edition

All other Millward drawings are listed on the project document issue register.

TITLE: SURFACE WATER MANHOLE SCHEDULES

PROJECT: Proposed Residential Development Wardentree Lane, Pinchbeck

CLIENT: ALLISON Homes

DATE	CHECKED	APPROVED BY	SCALE	DRAWN	ENGINEER	DRAWING No:	DRAWING STATUS
March 2015			NTS @ A1	J Harrison	J McKellar	MA10002 / 202-2 rev F	Tender

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