

MANHOLE REF. No.	CO-ORDINATES FOR PIPE INTERSECTION POINT	MANHOLE LEVELS (mAOD)	MANHOLE TYPE	MANHOLE DEPTH	MANHOLE SIZE	COMMENTS
MH 13a	E: 225120.331 N: 381106.254	CL = 15.500 A = 12.492 (IL) X = 12.492 (IL)	TYPE B	3.008m	1.200m	
SW 12	E: 225120.240 N: 381108.107	CL = 15.500 A = 11.111 (IL) X = 11.111 (IL)	TYPE A	4.398m	1.500m	
SW 11	E: 225145.825 N: 381111.643	CL = 13.869 A = 10.927 (IL) B = 10.927 (IL) C = 11.227 (IL) D = 11.227 (IL) X = 10.927 (IL)	TYPE B	2.942m	1.500m	
MH 12a	E: 225170.409 N: 381046.437	CL = 15.000 A = 11.965 (IL) X = 11.965 (IL)	TYPE B	3.035m	1.200m	
MH 11a	E: 225195.468 N: 381022.330	CL = 14.700 A = 11.730 (IL) B = 11.730 (IL) X = 11.730 (IL)	TYPE B	2.970m	1.200m	
MH 11	E: 225203.748 N: 381032.374	CL = 12.680 A = 11.640 (IL) B = 11.640 (IL) C = 11.640 (IL) X = 11.640 (IL)	TYPE B	2.905m	1.500m	
SW 10	E: 225200.368 N: 381032.643	CL = 14.497 A = 10.250 (IL) B = 10.400 (IL) C = 10.450 (IL) X = 10.250 (IL)	TYPE A	4.247m	1.500m	
MH 10	E: 225272.092 N: 380990.791	CL = 12.640 A = 11.105 (IL) B = 11.105 (IL) X = 11.105 (IL)	TYPE E	1.535m	1.200m	
SW 9	E: 225268.712 N: 380991.060	CL = 12.680 A = 9.333 (IL) B = 9.483 (IL) X = 9.333 (IL)	TYPE B	3.347m	1.500m	
MH 9	E: 225306.848 N: 380970.992	CL = 12.162 A = 9.840 (IL) B = 9.840 (IL) X = 9.840 (IL)	TYPE B	2.322m	1.200m	
SW 8	E: 225303.468 N: 380971.261	CL = 12.117 A = 8.850 (IL) B = 9.000 (IL) X = 8.775 (IL)	TYPE B	3.342m	1.500m	
MH 8	E: 225345.384 N: 380947.755	CL = 12.324 A = 8.940 (IL) B = 9.050 (IL) C = 8.940 (IL) X = 8.865 (IL)	TYPE A	3.459m	1.200m	
SW 7	E: 225346.286 N: 380945.442	CL = 12.319 A = 8.300 (IL) B = 8.520 (IL) C = 8.525 (IL) X = 8.225 (IL)	TYPE A	4.094m	1.800m	

△ PIPE INTERSECTION POINT ALONG PIPE CENTRE LINE FOR THE MAJOR PIPE DIAMETERS.
BD BACK DROP

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MH 7	E: 225401.757 N: 380915.397	CL = 11.008 A = 7.910 (IL) X = 7.910 (IL)	TYPE B	3.098m	1.200m	
SW 6	E: 225398.323 N: 380915.573	CL = 11.091 A = 7.750 (IL) X = 7.750 (IL)	TYPE B	3.341m	1.500m	
SW 5	E: 225450.828 N: 38078.110	CL = 9.850 A = 6.516 (IL) B = 6.516 (IL) BD = 7.400 (IL) X = 6.516 (IL)	TYPE B	3.334m	1.800m	
MH 6	E: 225478.790 N: 380860.438	CL = 9.618 A = 6.585 (IL) B = 6.860 (IL) C = 6.585 (IL) X = 6.585 (IL)	TYPE B	3.033m	1.500m	
SW 4	E: 225476.471 N: 380859.815	CL = 9.573 A = 6.090 (IL) B = 6.240 (IL) X = 5.940 (IL)	TYPE B	3.633m	1.800m	
MH 5	E: 225553.410 N: 380811.245	CL = 10.395 A = 5.760 (IL) BD = 8.670 (IL) X = 5.760 (IL)	TYPE A	4.635m	1.200m	
SW 3	E: 225550.769 N: 380810.811	CL = 9.982 A = 5.798 (IL) X = 5.798 (IL)	TYPE A	4.184m	1.800m	
MH 4	E: 225604.675 N: 380774.824	CL = 11.075 A = 5.212 (IL) X = 5.212 (IL)	TYPE A	5.863m	1.500m	
SW 2	E: 225608.032 N: 380770.550	CL = 10.654 A = 5.686 (IL) B = 6.437 (IL) X = 5.686 (IL)	TYPE A	4.968m	2.400m	
MH 3	E: 225612.475 N: 380779.356	CL = 11.040 A = 5.148 (IL) BD = 6.650 (IL) X = 5.148 (IL)	TYPE A	5.892m	1.500m	
MH 2	E: 225678.488 N: 380814.776	CL = 9.570 A = 4.605 (IL) B = 4.605 (IL) X = 4.605 (IL)	TYPE A	4.965m	1.500m	
SW 1	E: 225678.425 N: 380808.561	CL = 8.288 A = 5.419 (IL) B = 5.669 (IL) X = 4.919 (IL)	TYPE B	3.369m	2.100m	
MH 1	E: 225701.409 N: 380827.379	CL = 8.433 A = 3.950 (IL) B = 3.950 (IL) X = 3.950 (IL)	TYPE A	4.483m	1.800m	

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- NOTES
- Design is based on the recommendations of the design guide "Sewers for Adoption 6th Edition" and is subject to DWR CYMRU Welsh Water Approval.
 - All dimensions are in millimetres unless noted otherwise.
 - All levels are m AOD unless noted otherwise.
 - This drawing is to be read in conjunction with drawings 5035112/StA/C 555 to 5035112/StA/C 575.
 - All existing levels, pipe sizes, manhole positions, etc, are to be proven on site by the contractor before site work commences. Atkins to be notified of any discrepancies.
 - All setting out information relates to Ordnance Survey Grid of co-ordinates.
 - + denotes centre of manhole.
 - △ shows co-ordinated intersection point.
 - TBC - To be confirmed.
 - Benching to direct flows in direction of outlet via slow radius bends.
 - Invert levels suffixed * are to be confirmed following finalisation of highway drainage design.

Item	Hazard	Risk
H	MH 3 & 4 UPDATED	AF 02.10.07 DRS RJW
G	SW 11 & SW 10 HIGHWAY CONNCEION ADDED	AF 11.09.07 RWJ RJW
F	VARIOUS REVISIONS SW 1 & SW 5 REVISED	AF 07.09.07 DRS RJW
E	VARIOUS REVISIONS	PB 20.07.07 DRS RJW
D	MINOR REVISIONS	AF 04.06.07 DRS RJW
C	FOUL MANHOLES REVISED	AF 27.04.07 DRS RJW

Rev	Modifications	By	Date	Chk'd	Auth
	FOR CONSTRUCTION	H	02.10.07	RJW	
	FOR CONSTRUCTION	G	11.09.07	RJW	
	FOR CONSTRUCTION	F	07.09.07	RJW	
	FOR CONSTRUCTION	E	20.07.07	RJW	
	FOR CONSTRUCTION	D	04.06.07	RJW	
	SW FOR CONSTRUCTION - VALUE ENGINEERING	C	27.04.07	DRS	
	FOR CONSTRUCTION	B	15.12.06	RJW	
	FOR CONSTRUCTION	A	29.11.06	RJW	

Purpose of issue	Rev	Date	Authorised

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Client: YR UNDER EUROPEAN AMCAN I EUROPEAN UNION OBJECTIVE I

Project: TY MAWR BUSINESS PARK DEVELOPMENT INFRASTRUCTURE

Title: MANHOLE SCHEDULE SHEET 1 OF 3

Original Size: A1 Scale: 1:100
Designed: PJE Drawn: AF Checked: PJE Authorised: RJW
Date: 29.11.06 Date: 29.11.06 Date: 29.11.06

Project No. 5035112 Office: STA C 560 Drawing No. H

THIS IS A CAD DRAWING - HAND AMENDMENTS SHOULD BE CARRIED OUT IN ACCORDANCE WITH Q.A. PROCEDURES