

**A2**

**SECTION '104' SURFACE WATER  
MANHOLE SCHEDULE – PHASE 3**

MANHOLE REF NO.	COVER LEVEL	PIPE DIAMETER	INVERT LEVEL	DEPTH TO SOFFIT (m)	MANHOLE TYPE	COVER GRADE	NOTES
MH S8	73.70	150	72.350	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH S8A	73.90	150	72.700	1.050	475 dia PPIC	D400	Private (demarcation chamber)
MH S9	73.85	150 (in) 225 (out)	72.250 72.175	1.450	1200 dia TYPE B	D400	Section 104 sewer
MH S9A	74.05	150	72.850	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH S10	71.95	150 (in) 225 (in) 300 (out)	70.300 70.225 70.150	1.500	1200 dia TYPE B	D400	Section 104 sewer
MH S10A	72.15	150	70.950	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH S10B	72.30	225	70.875	1.200	1200 dia TYPE B	D400	Private (demarcation chamber)
MH S11	71.85	150	70.500	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH S11A	71.90	150	70.700	1.050	475 dia PPIC	D400	Private (demarcation chamber)
MH S12	71.35	150 (in) 300 (in) 300 (out)	69.600 69.450 69.450	1.600	1200 dia TYPE B	D400	Section 104 sewer
MH S13	70.85	150 (in) 300 (in) 300 (out)	69.350 69.200 69.200	1.350	1200 dia TYPE B	D400	Section 104 sewer
MH S13A	70.90	150	69.700	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH S14	69.80	225	68.375	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH S15	69.40	225	67.975	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH S16	69.20	225 (in) 300 (out)	67.775 67.700	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH S16A	69.50	225	68.075	1.200	1200 dia TYPE B	B125	Private (demarcation chamber)
MH S17	69.05	150 (in) 300 (in) 375 (out)	67.700 67.550 67.475	1.200	1500 dia TYPE B	D400	Section 104 sewer
MH S17A	69.35	150	68.15	1.050	475 dia PPIC	B125	Private (demarcation chamber)

**SECTION '104' APPROVED  
DEMARCATION CHAMBERS**

MANUFACTURER	PRODUCT NAME	MATERIAL	MAX DEPTH	COVER TYPE
Naylor	Plastic Inspection Chamber	Polypropylene	Up to 1200mm	B125
Hepworth	PPIC	Polypropylene	Up to 1200mm	B125
Uponor	Inspection Chamber (450mm ø)	Polypropylene	Up to 1200mm	B125
Marshalls	Inspection Chamber to BS5911 pt2	Precast Concrete	Up to 1000mm	B125
Wavin	OsmoDrain UltraRib Inspection Chamber	Polypropylene	Up to 1200mm	B125
Wavin	OsmoDrain Universal Inspection Chamber	Polypropylene	Up to 1200mm	B125
Wavin	Non Entry Inspection Chamber	Polypropylene	Up to 2000mm	B125
Morley	Inspection Chamber (450mm ø)	Polypropylene	Up to 1200mm	B125
Polypipe	110mm Inspection Chamber (460mm ø)	Polypropylene	Up to 1200mm	B125
Polypipe	Non Man Entry Deep Inspection Chamber	Polypropylene	Up to 2000mm	B125

Concrete surround shall be provided to demarcation chamber where subject to vehicle loading (e.g. driveways). For depths in excess of 1.2m a restricted access opening 350mm diameter (or 300x300mm) shall be used.

Alternatively, pre-cast concrete ring manhole to 'Sewers for Adoption' 6th Edition Specification may be used as a demarcation chamber. Chamber covers shall be ductile iron and appropriate strength for area situated (minimum classification B125).

**SECTION '104' FOUL WATER  
MANHOLE SCHEDULE – PHASE 3**

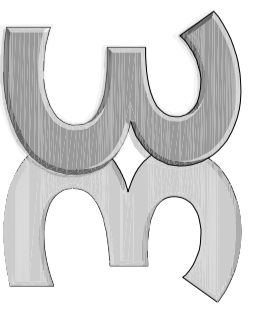
MANHOLE REF NO.	COVER LEVEL	PIPE DIAMETER	INVERT LEVEL	DEPTH TO SOFFIT (m)	MANHOLE TYPE	COVER GRADE	NOTES
MH F4	73.70	150	72.200	1.350	1200 dia TYPE B	D400	Section 104 sewer
MH F4A	73.90	150	72.700	1.050	475 dia PPIC	D400	Private (demarcation chamber)
MH F5	73.95	150	72.090	1.710	1200 dia TYPE B	D400	Section 104 sewer
MH F5A	74.05	150	72.850	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH F6	71.90	150	70.550	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH F6A	72.20	150	71.000	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH F6B	71.95	150	70.750	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH F7	71.90	150	70.550	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH F7A	72.00	150	70.800	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH F8	71.50	150	70.150	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH F9	70.95	150	69.600	1.200	1200 dia TYPE B	D400	Section 104 sewer
MH F9A	70.90	150	69.700	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MANHOLE REF NO.	COVER LEVEL	PIPE DIAMETER	INVERT LEVEL	DEPTH TO SOFFIT (m)	MANHOLE TYPE	COVER GRADE	NOTES
MH SD4	69.15	150 (in) 375 (in) 375 (out)	67.405 67.180 67.180	1.595	1500 dia TYPE B	D400	Section 185 Diversion
MH SD4A	69.50	150	68.300	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH SD4B	69.10	150	67.500	1.450	475 dia PPIC	D400	Private (demarcation chamber)
MH SD5	69.25	150 (in) 375 (in) 375 (out)	67.255 67.030 67.030	1.845	1500 dia TYPE B	D400	Section 185 Diversion
MH SD5A	69.60	150	68.400	1.050	475 dia PPIC	B125	Private (demarcation chamber)
MH SD6	69.35	375 (in) 375 (out)	66.940 66.940	2.035	1500 dia TYPE B	D400	Section 185 Diversion
MH SD7	68.55	150 (in) 375 (in) 375 (out)	67.030 66.805 66.805	1.370	1500 dia TYPE B	D400	Section 185 Diversion
MH SD7A	68.45	150	67.250	1.050	475 dia PPIC	D400	Private (demarcation chamber)
MH SD7B	68.65	150	67.450	1.050	475 dia PPIC	D400	Private (demarcation chamber)

Only PDF/DWF Issues of this drawing are controlled. All other formats (eg. DWG AutoCAD FILES) are UN-controlled and are used at your own risk.

This drawing is copyright ©. It is sent to you in confidence and must not be copied, used or disclosed to any third parties without 3E permission. It remains the property of 3E and must be returned on request.

Contractors should refer to the residual risks contained in the CDM Pre Construction Information before carrying out any site operations and should not issue parts of this drawing without including the CDM notes and references. This information will include details of the SIGNIFICANT risks which 3E have considered beyond that which a competent contractor should be aware.

Date	Revisions	Drawn	Rev.
30.07.13	REVISED TO SUIT VW COMMENTS.	JM	P2
14.05.13	INITIAL ISSUE	JM	P1



4 calder close  
violetpark  
violetfield  
W14 3BA

t 01924 240420  
f 01924 240421  
www.3econslts.com

**Client**  
Kier Property Development Limited

**Project**  
Midland Road, Royston

**Title**  
Manhole Schedule  
Phase 3

Scale	Drawn	Checked	Date
NTS	JM	AL	MAY 13

**Drawing Status**  
Preliminary

Job No.	Drawing No.	Revision
11120	C1037	P2

**DO NOT SCALE.**