

ADOPTABLE SURFACE WATER MANHOLE SCHEDULE											
REF	COVER LEVEL (APPROX) (m)	MANHOLE INTERNAL DIA (mm)	LAYOUT	INVERT LEVEL (m)	INCOMING PIPE DIA (mm)	OUTGOING PIPE DIA (mm)	MANHOLE COVER	COMMENT	EASTING	NORTHING	
							GRADE TO BS EN124				
S1	133.100	TYPE B 1500		130.950 130.950 130.950	150 150 150	150	D400				
S2	133.500	TYPE B 1500		131.000	150	150	D400				
S3	133.750	TYPE B 3000		131.100 131.100 131.100 131.100	150 1200 1200 150	150	D400	HYDRO-BRAKE FLOW CONTROL CHAMBER			
S4	134.100	TYPE B 2100		131.116 131.116 132.166	1200 150	1200	D400				
S5	134.500	TYPE B 2100		131.140	1200	1200	D400				
S6	134.575	TYPE B 2100		131.166 131.166 132.216	1200 150	1200	D400				
S7	134.600	TYPE B 2100		131.327 132.377 132.302 132.377	150 225 150	1200	D400				
S8	132.600	TYPE B 1200		131.475 131.550 131.475 131.550	150 225 150	225	D400				
S9	132.900	TYPE B 1200		131.600	150	225	D400				
S10	133.650	TYPE B 1200		132.300 132.300 132.300 132.300	150 150 150	150	D400				
S11	134.000	TYPE B 1200		132.650	150	150	D400				
S12	134.150	TYPE B 1200		133.000 133.000 133.000 133.000	150 150 150	150	D400				
S13	132.900	TYPE B 1200		131.900	150	150	D400				
S14	134.700	TYPE B 1200		133.500 133.500 133.500	150 150	150	D400				
S15	134.500	TYPE B 1200		133.000 133.000	150	150	D400				

ADOPTABLE FOUL WATER MANHOLE SCHEDULE											
REF	COVER LEVEL (APPROX) (m)	MANHOLE INTERNAL DIA (mm)	LAYOUT	INVERT LEVEL (m)	INCOMING PIPE DIA (mm)	OUTGOING PIPE DIA (mm)	MANHOLE COVER	COMMENT	EASTING	NORTHING	
							GRADE TO BS EN124				
F1	133.500	TYPE B 1200		130.840 130.840	150	150	D400				
F2	133.700	TYPE B 1200		130.900	150	150	D400				
F3	134.000	TYPE B 1200		130.980 130.980 130.980	150 150	150	D400				
F4	134.500	TYPE B 1200		131.040 131.040	150	150	D400				
F5	134.550	TYPE B 1200		131.120 131.120 131.120	150 150	150	D400				
F6	134.600	TYPE B 1200		131.220	150	150	D400				
F7	132.600	TYPE B 1200		131.550 131.550 131.550	150 150	150	D400				
F8	132.900	TYPE B 1200		131.770	150	150	D400				
F9	133.600	TYPE B 1200		132.200 132.200	150	150	D400				
F10	133.900	TYPE B 1200		132.500 132.500	150	150	D400				
F11	134.200	TYPE B 1200		133.000 133.050	100	150	D400				
F12	132.900	TYPE B 1200		131.750 131.800 131.800	100 100	150	D400				
F13	134.800	TYPE B 1200		133.300 133.350	100	150	D400				
F14	134.400	TYPE B 1200		133.000 133.000 133.050	150 100	150	D400				

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.

2. ALL DRAINAGE WORKS ARE TO COMPLY WITH THE REGULATIONS OF BS 823 BUILDING DRAINAGE AND BUILDING REPAIRATIONS 2000 APPROVED DOCUMENT H 2002 EDITION.

3. ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYERS REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.

4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTATION DRAWINGS AND DETAILS AND CONTRADICTORY DOCUMENTATION.

5. ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYERS REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.

6. LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE TO BE IDENTIFIED AND MARKED OUT PRIOR TO THE WORKS.

7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.

8. DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN285 OR CONCRETE TO BS5911 PART 100 OR FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 1500mm DIA STORAGE PIPES TO BE POLYPIPE RIBDOSTOM WPC APPROVED AND BBA APPROVED.

9. TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SUBSTRATE IS GREATER THAN 900mm IN LANDSCAPED AREAS AND CLASS 5 (IE. 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 5500 AND 20-40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 5500mm DIA).

10. WHERE DEPTH TO EXISTING DRAINAGE PREWORK IS LESS THAN 900mm IN LANDSCAPED AREAS AND LESS THAN 1200mm IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150mm MINIMUM THICK CONCRETE BED & SURROUND.

11. BACKFILL TO DRAINAGE TRENCHES UNDER OVERHEADWAYS TO BE 150mm MINIMUM THICK CONCRETE BED & SURROUND. IN TRAFFICKED AREAS THEN PIPEWORK IS TO BE PROTECTED WITH 150mm MINIMUM THICK CONCRETE BED & SURROUND.

12. MANHOLE FRAME/FITTINGS SHOULD BE IN ACCORDANCE WITH THE TABLE BELOW:

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200 +
375-450	1500
450-700	1500
700-900	1600
900-1200	2100

13. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT. COMPATIBLE WITH THE SATISFACTION OF COMPLETION AND NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW:

NOMINAL DIAMETER (mm)	EFFECTIVE LENGTH (m)
150-400	0.6
400-750	1.0
750 AND OVER	1.25

14. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM.

15. ALL ADOPTABLE DRAINAGE HAS BEEN DESIGNED NOT TO ATTENUATE FLOWS IN EXCESS OF THE 1 IN 30 YEAR RETURN STORM PERIOD.

16. ALL ADOPTABLE DRAINAGE HAS BEEN DESIGNED TO SERVE FOR ADOPTION 8TH EDITION.

Client/Architect
KEYWORKER HOMES LTD

Contract
RESIDENTIAL DEVELOPMENT
FORGE WORKS
BIDDULPH

Title
MANHOLE SCHEDULES

Rev
Description
PRELIMINARY

Issue
PRELIMINARY

KEYTECH DEVELOPMENT DESIGN LTD
4th FLOOR, 100-102, CHURCH STREET, BIRMINGHAM, B4 7AL
Phone: 0121 625 7700 Email: info@keytechdesign.co.uk

Date
JAN 18
Scale
AS SHOWN

Original Size
Drawn
HEB

Checked
Approved

Drawing No.
K686-109

Revision