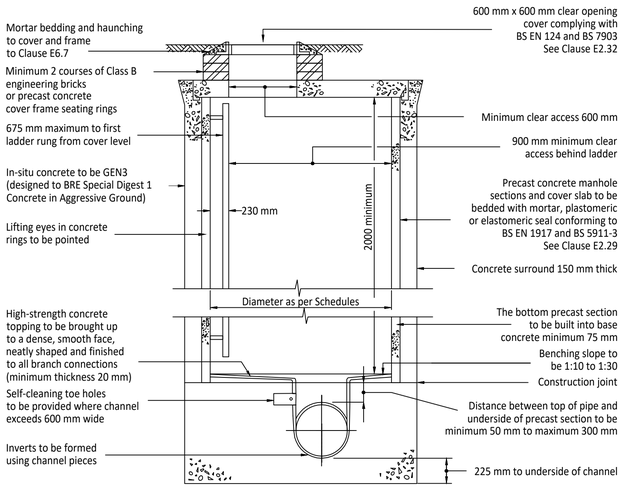
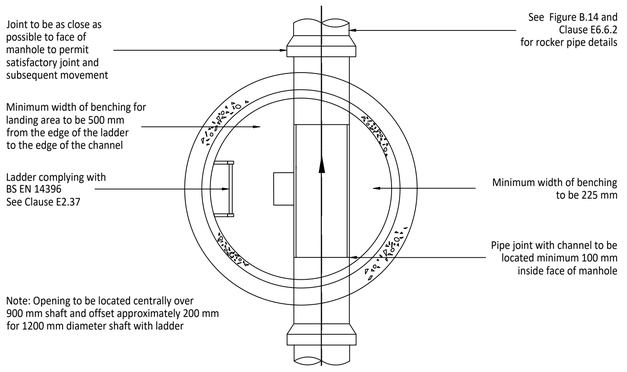
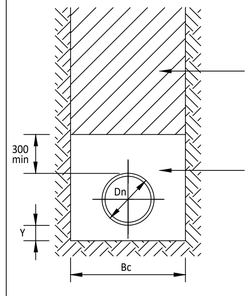
ADOPTABLE MANHOLE DETAIL - TYPE A
Depth from cover level to soffit of pipe 3 m to 6 m

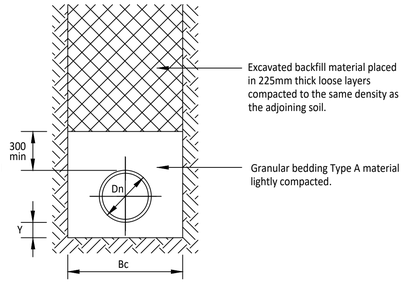




Note: Opening to be located centrally over 900 mm shaft and offset approximately 200 mm for 1200 mm diameter shaft with ladder

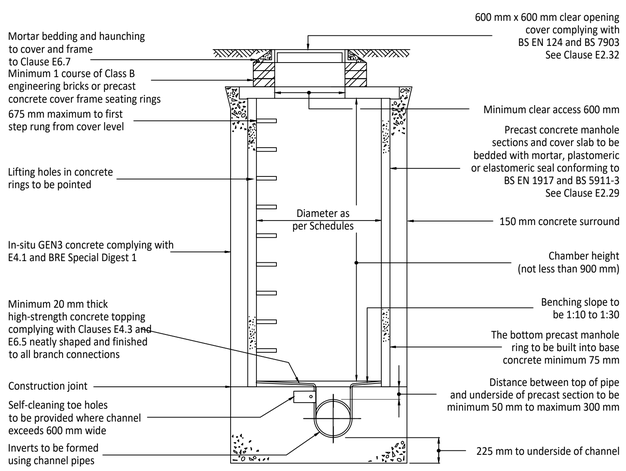


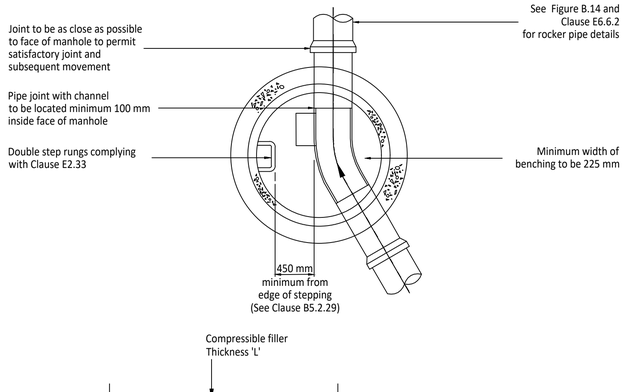
CLASS S BEDDING
(On trafficked areas)

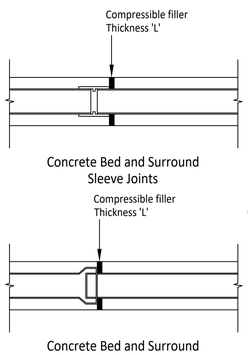


CLASS S BEDDING
(Verges & Landscaping)

ADOPTABLE MANHOLE DETAIL - TYPE B
Depth from cover level to soffit of pipe 1.5m to 3.0 m

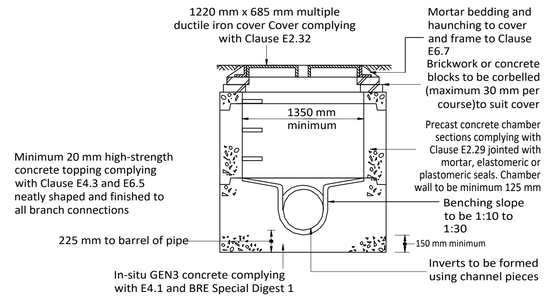


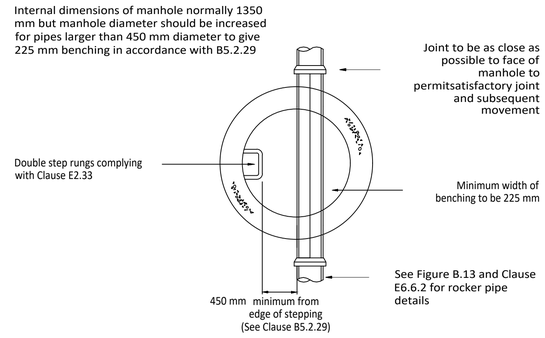




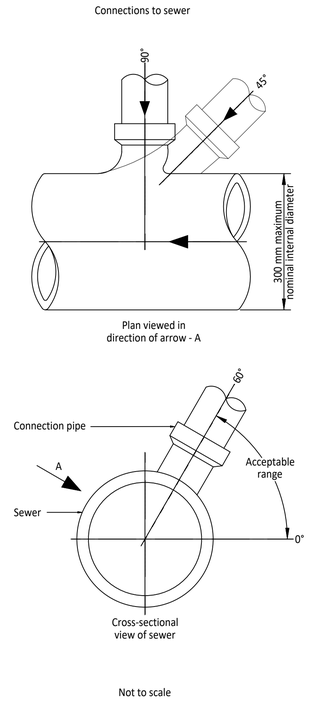
FLEXIBLE JOINT DETAILS

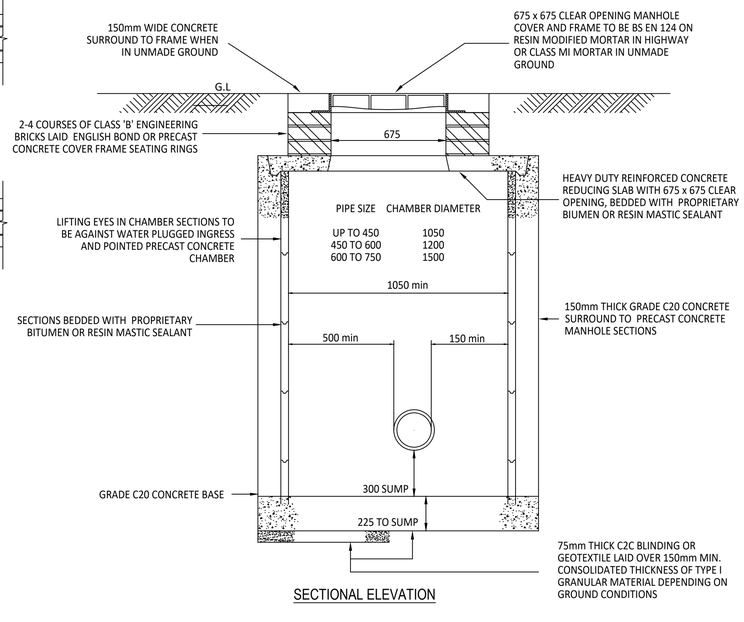
TYPICAL MANHOLE DETAIL - TYPE C
Depth from cover level to soffit of pipe less than 1.5 m Rigid material construction



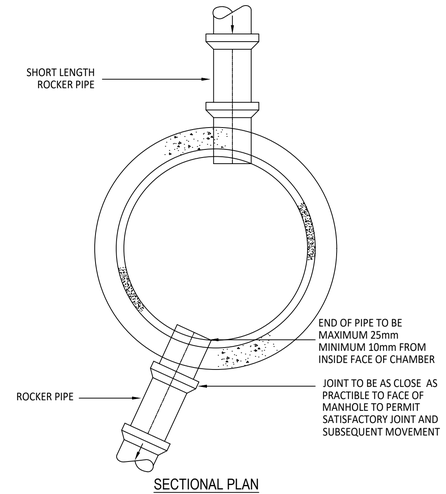


Note: The use of precast concrete chamber units to E2.29 with 150 mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.





SECTIONAL ELEVATION



SECTIONAL PLAN

TYPICAL CATCHPIT DETAIL

GRANULAR BEDDING

Nominal bore of pipe (mm)	Alternative Aggregate sizes (mm)	
	Single sized	Graded
100 150 225-300 375-525 >525	10 10 or 14 14 or 20 14, 20 or 40	- 14-5 14-5 or 20-5 14-5 or 20-5 14-5, 20-5 or 40-5

Granular bedding for pipes and backfilling material for temporary drains (trench sub-drains) shall consist of aggregates from natural sources to BS EN 13242 and BS EN 1744-1 or sintered pulverised fuel ash complying with the relevant provisions of BS 3892; sized in accordance with the above table

Selected fill material, whether selected from locally excavated material or imported, shall consist of uniform, readily compactible material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. Clay lumps and stones shall be retained on 100mm and 40mm sieves respectively.

TRENCH WIDTHS & KEY DIMENSIONS

Dia Dn (mm)	Width Bc (mm)		Y(mm)		L(mm)	Z MIN (mm)
	Max	Min	Y1 (Uniform Soil)	Y2 (Rock)		
100 150 225	550 600 700	450 490 580	100 150 150	200 200 200	18	150 150 150
300 375 450	750 1050 1150	680 950 1030	150 150 150	200 200 200		150 150 150
525 600 675	1200 1350 1450	1120 1240 1330	150 150 150	200 200 200	36	150 150 225
750 825 900	1500 1600 2100	1400 1490 1900	150 150 150	200 225 225		225 225 225
975 1050 1200	2150 2250 2500	1950 2050 2250	175 175 200	250 275 300		300 300 300
OVER 1200	O.D+1000	O.D+800	I.D/6	I.D/4	54	400

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DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All adoptable drainage works to be constructed as detailed in Design and Construction Guidance or as stipulated in the Water Authorities Addendum.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
7. All drainage ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
 -Carriageways and Roads - D400
 -Driveways and Verges - C250
 -Footways and Pedestrian Areas - B125
 -Gardens/Landscaping - A15
8. All sewer pipes, up to, and including 600mm are to be vitrified clay or PVC-U to BS EN295 and BS EN1404 respectively. All sewer pipes 675mm diameter and above to be concrete pipes to BS EN1916.
9. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
10. All bedding shall be Class S unless noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.

ALL PIPE BEDDING TO BE CLASS 'S' GRANULAR SURROUND UNLESS NOTED OTHERWISE ON THE DRAWING

Rev	Date	Description	Drawn	Checked
A	02.25	FIRST ISSUE	AS	RF

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Client
MILLER HOMES

Project
SOUTH WOKINGHAM SDL PHASE 2B R10 RESERVED MATTERS APPLICATION

Title
DRAINAGE CONSTRUCTION DETAILS SHEET 1

Status

Scale	Date	Drawn	Checked
NTS	FEB 2025	AS	RF

Drawing No: A389-R10-RM-511
Revision: A