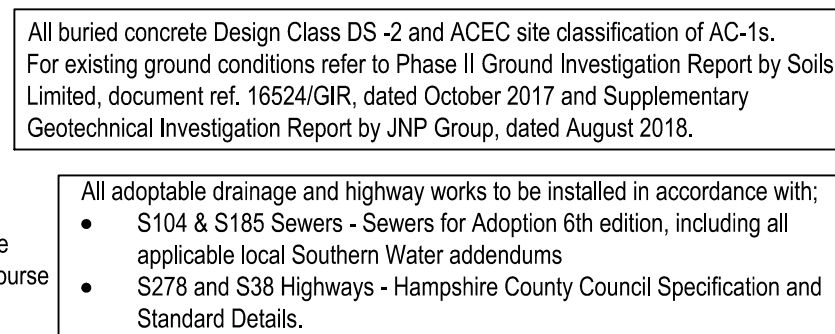
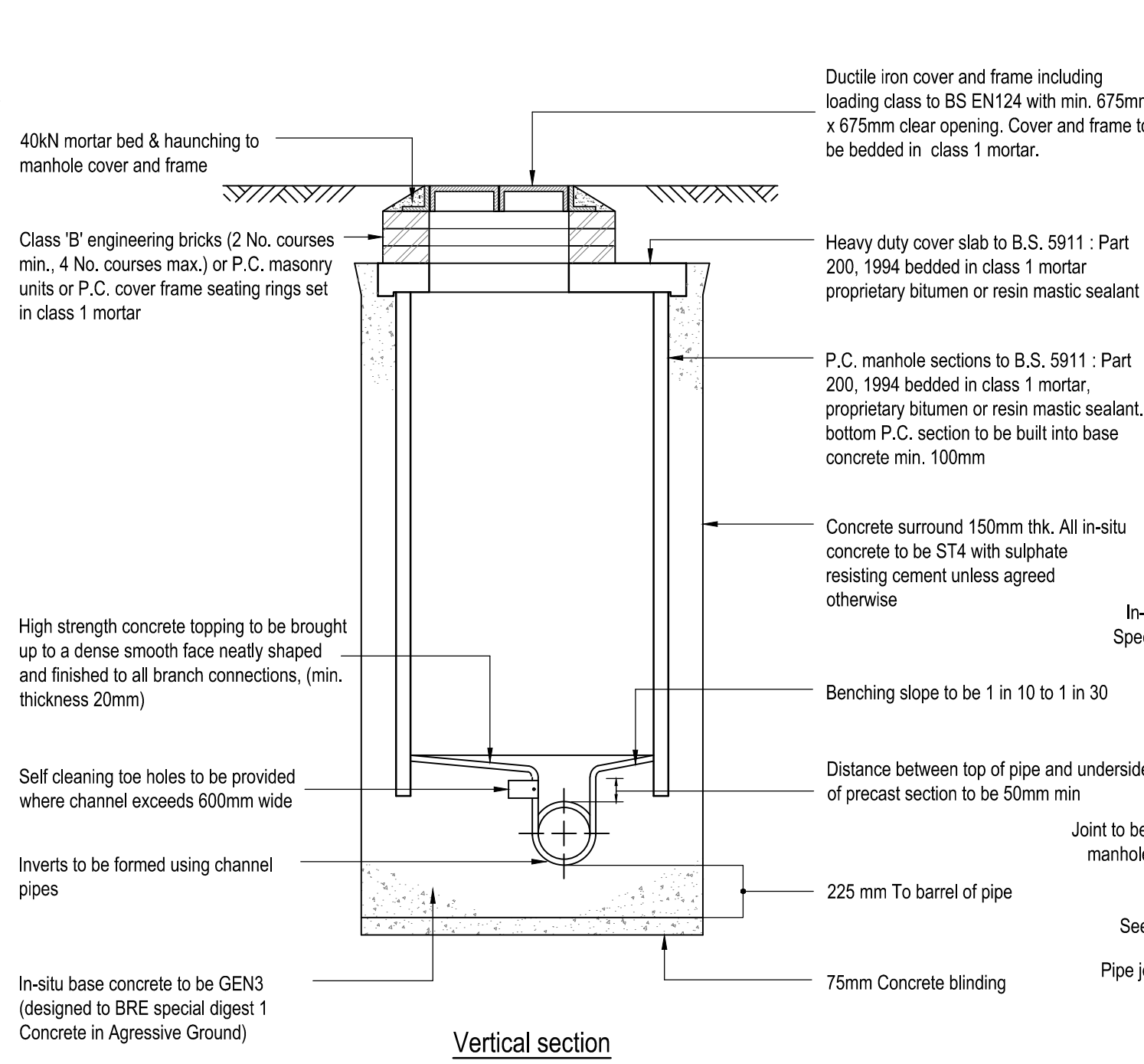
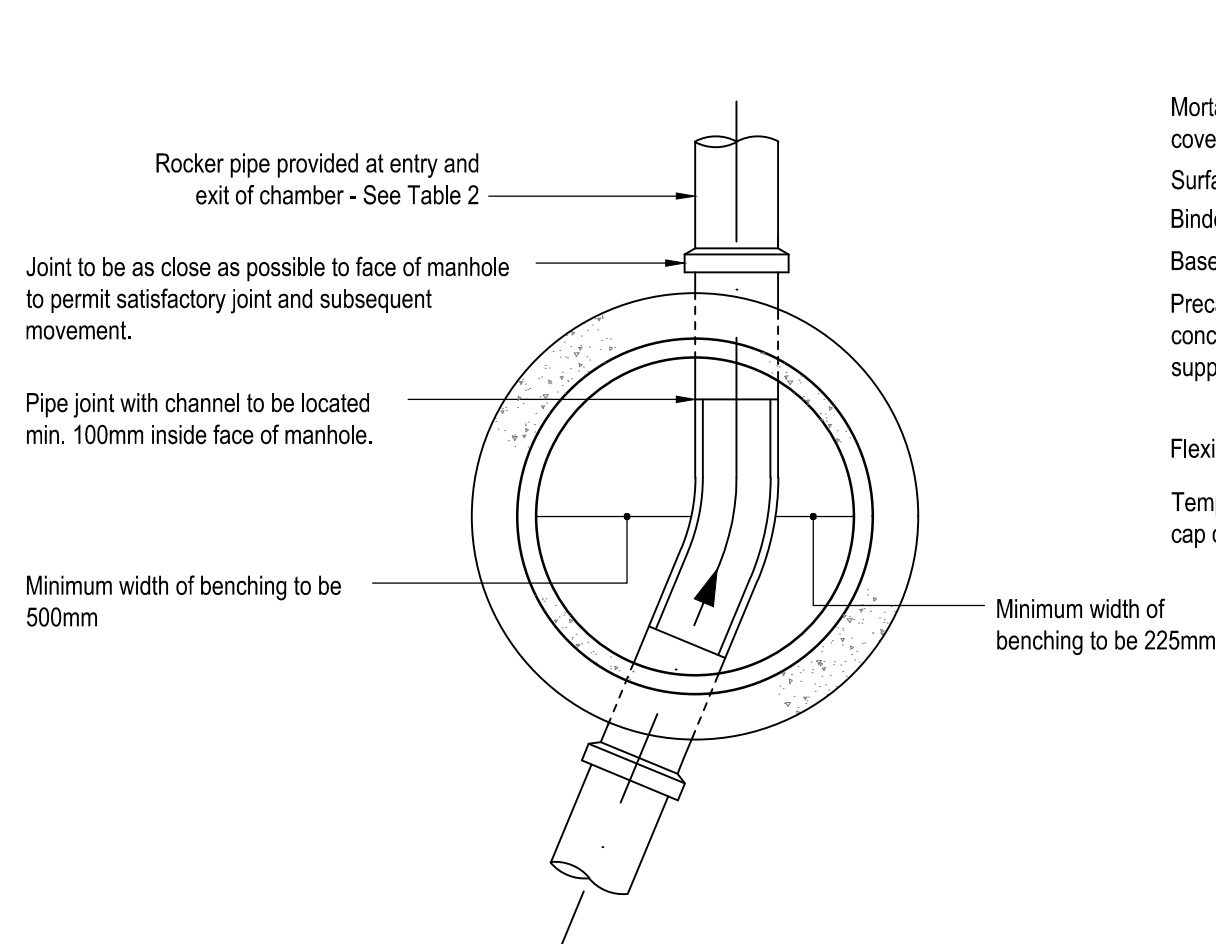




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The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

Vertical section



(1/25)

Cover to suit BS EN 124 Loading Highways - Grade D400, 600mm clear opening

Access opening restricted to 350mmØ or 300mm x 300mm if depth of chamber >1m

Class B engineering brickwork or precast concrete cover frame seating rings

DOT Type 1 Sub-base (thickness varies)

Note: Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Minimum internal dimensions 450mmØ or 450mm x 450mm

DOT Type 1 Sub-base (thickness varies)

Base unit to have all connections with soffit levels set no lower than that of the main pipe

Granular bedding material

Invert of connecting pipe at least 50mm above that of the main pipe

Mortar bedding and haunching to cover and frame to clause E6.7

Surface course

Binder course

Base course

Precast or in-situ concrete slab to support cover frame

Flexible Seal

Temporary manhole cap during construction

of 225mm

and shaft components right seals

not to be as close as possible to face of chamber to permit satisfactory joint subsequent movement

Mortar bedding and haunching to cover and frame to clause E6.7

150mm deep concrete collar

Temporarily cap manhole shaft during construction

Flexible seal

Sited in domestic driveways or footways

Access opening restricted to 350mmØ or 300mm x 300mm if depth of chamber >1m

Minimum internal dimensions 450mmØ or 450mm x 450mm

Cover complying with BS EN 124 and BS 7903 Driveways, footways and landscaped areas - Class B125, See clause E2.32

Topsoil

Access opening restricted to 350mmØ or 300mm x 300mm if depth of chamber >1m

Minimum internal dimensions 450mmØ or 450mm x 450mm

Sited in soft landscaped areas

Type 3 Inspection Chamber detail (Flexible Material)

for light vehicle loading and landscaped areas

Maximum depth from cover level to soffit of pipe in areas subject to vehicular loading 3m, no entry

(1/25)

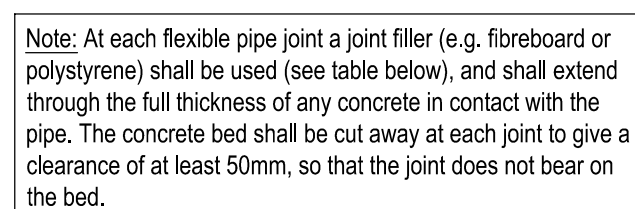
Plan section

(1:25)

Diameter of largest pipe in manhole (mm)	Internal diameter of manhole (mm)
Less than 375	1200
375 to 700	1500
750 to 900	1800
Greater than 900	Consult Southern Water

Sizes shown are the minimum. Where 2 or more pipes enter a manhole, the manhole size should be sufficient to accommodate adequate benching.

1. Where the flow of groundwater is likely to transport fine soil particles, water stops of puddle clay extending up through the bedding and side fill shall be placed across the trench and immediately downstream of any temporary works. Water stops shall be placed at 15m intervals agreed with the local water authority.
2. In bad ground conditions, where migration of the pipes granular surround into the ground may occur or where fines may be moved from the surround material into the bedding material causing a lack of support of the bedding, the surround shall be wrapped in a geotextile membrane (see BS 9295:2010 Clause A13, Figure A.5 and A.6.). Similar mitigation works shall apply to manholes around and bedding.



① Material designated Type 'A' shall consist of angular gravel or crushed rock graded in accordance with B.S. 882 : 1992, or air cooled blast furnace slag to B.S. 1047 : 1983, or sintered pulverised fuel ash to B.S. 3797 : 1990, selected according to pipe size as follows:-

- ② Material designated Type 'B' used under gardens and verges shall consist of uniform readily compactable material, free from tree roots, vegetable matter, building rubbish and frozen soil, and excluding clay lumps retained on a 75mm sieve and stones larger than 37mm. Bedding to be compacted in 225mm layers.
- ③ Material designated Type 'B' used under roads and footpaths shall consist of granular material as used for carriageway sub-base construction.

(NTS

Compressible filler and packing for pipelines	
Nominal diameter of pipe (mm)	Thickness of compressible filler (mm)
Less than 450	18
450 - 1200	36
Exceeding 1200	54