

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

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

Surface course

Binder course

Base course

Precast concrete slab or in-situ concrete slab to support cover and frame

Flexible seal

Temporarily cap shaft during construction

Manhole cover to suit BS EN 124 loading
Highways - Class D400
600 mm clear opening

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

Class B engineering brickwork or precast concrete cover frame seating rings

DOT Type 1 sub base (thickness varies)

Minimum internal dimension
450 mm diameter
450 mm x 450 mm as standard
600 mm diameter where type

DOT Type 1 sub base (thickness varies) or concrete surround

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

Joint to be as close as possible to face of chamber to permit satisfactory joint and subsequent movement

Granular bedding material

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

Joint between base and shaft and between shaft components to be fitted with watertight seals

Note: Where the access chamber is in the highway the Highway Authority can have specific requirements

Maximum depth from cover level to soffit of pipe 2 m, non-entry

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Sited in driveways/paved areas

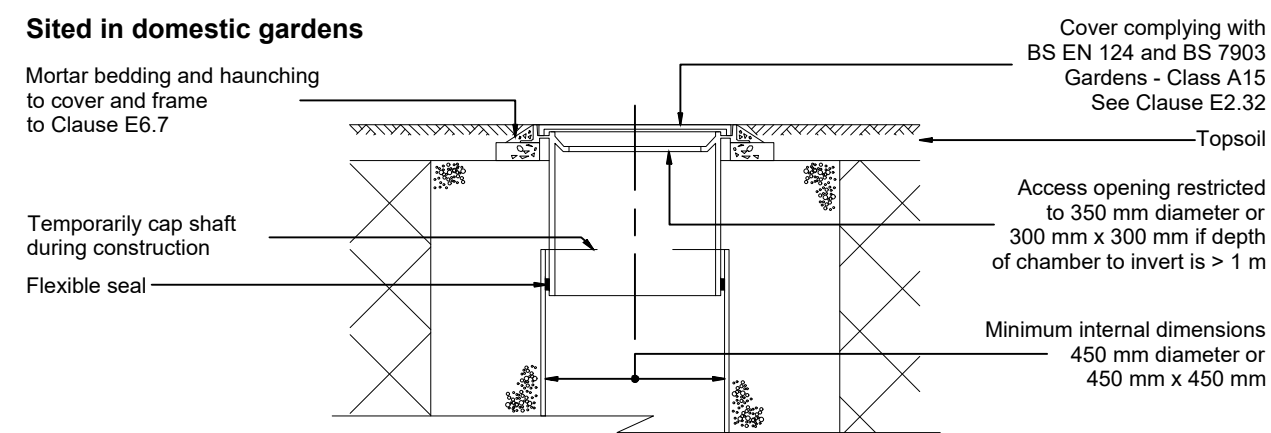
Labels for driveway/paved areas:

- Cover complying with BS EN 124 and BS 7903
- Driveways, footways and landscaped areas - Class B125
- See Clause E2.32
- Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm
- DOT Type 1 sub base (thickness varies) or concrete surround
- Base unit to have all connections with a diameter greater than 150 mm set at soffit level
- Mortar bedding and haunching to cover and frame to Clause E6.7
- 150 mm deep concrete collar
- Minimum radius to be 500 mm for a 100 mm diameter pipe and 600 mm for a 150 mm diameter pipe to allow entry of maintenance equipment
- Joints between base and shaft and shaft components to be fitted with watertight seals
- Granular bedding material

Sited in domestic gardens

Labels for domestic gardens:

- Cover complying with BS EN 124 and BS 7903
- Gardens - Class A15
- See Clause E2.32
- Minimum internal dimensions 180 mm diameter or 225 mm x 100 mm
- DOT Type 1 sub base (thickness varies) or concrete surround
- Base unit to have all connections with soffit levels set no lower than that of the main pipe
- Mortar bedding and haunching to cover and frame to Clause E6.7
- Topsoil
- Minimum radius to be 500 mm for a 100 mm diameter pipe and 600 mm for a 150 mm diameter pipe to allow entry of maintenance equipment
- Joints between base and shaft and shaft components to be fitted with watertight seals
- Granular bedding material



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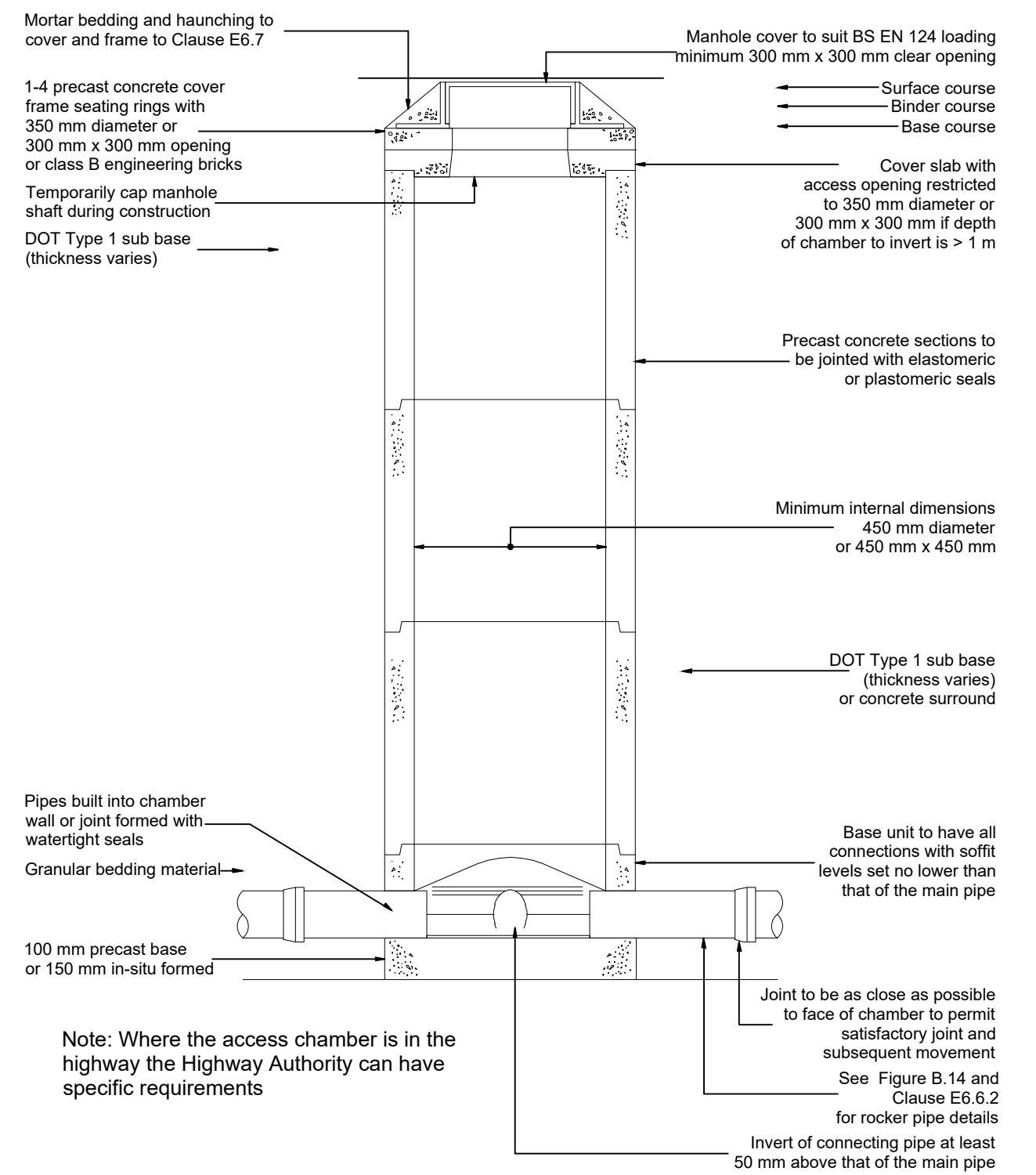


FIGURE B.18

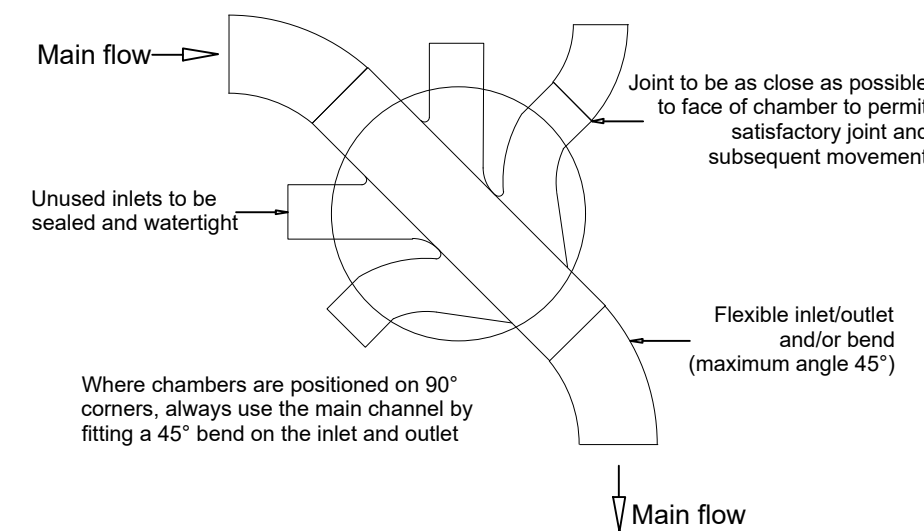
Figure 10.1 consists of two sub-diagrams, (a) and (b), illustrating details of pipe joints. Both diagrams show a cross-section of a pipe with a diameter of 100 units. The pipe is surrounded by a concrete pipe surround, which is 100 units thick on all sides. The joint is filled with a compressible filler. In diagram (a), the joint is a spigot and socket joint, showing a spigot (male) end of one pipe inserted into the socket (female) end of another pipe. In diagram (b), the joint is a sleeve joint, showing a sleeve (female) end of one pipe inserted into the spigot (male) end of another pipe. Both diagrams include labels for 'Pipe', 'Compressible filler', and 'Concrete pipe surround'.

Technical drawings of a concrete lintel with a compressible filler. The left drawing is a side elevation showing a concrete lintel (hatched) with a compressible filler (cross-hatched) inside. The filler is 50 mm thick. The lintel is 125 mm high. The filler is 50 mm thick. The right drawing is a top view showing a concrete lintel (hatched) with a compressible filler (cross-hatched) inside. The filler is 50 mm thick. The lintel is 125 mm high. The filler is 50 mm thick.

Not to scale, dimensions in millimetres
(all dimensions are minimum sizes)

- SUBJECT TO TECHNICAL APPROVAL

**DESIGNED TO CURRENT VERSION OF WATER UK'S
'DESIGN AND CONSTRUCTION GUIDANCE'**



Note: Where a bend is used immediately outside the manhole, this may be used as the rocker pipe

P2	ISSUED FOR APPROVAL	30.09.25	KW
P1	ISSUED FOR APPROVAL	08.09.25	KW
Status/Rev	Description	Date	By

IESISCIVILS

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Job Title
LAND AT WINNERSH FARM - PHASE 1
Client
TAYLOR WIMPEY WEST LONDON

DRAINAGE DETAILS
SHEET 3

drawn	date	scale @ A1	C1 checked	IESIS Project No.
KW	SEPT'25	NTS	-	SE2326

Drg No.	22586-18-03	Suitability	D2	Status/Revision	P2
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