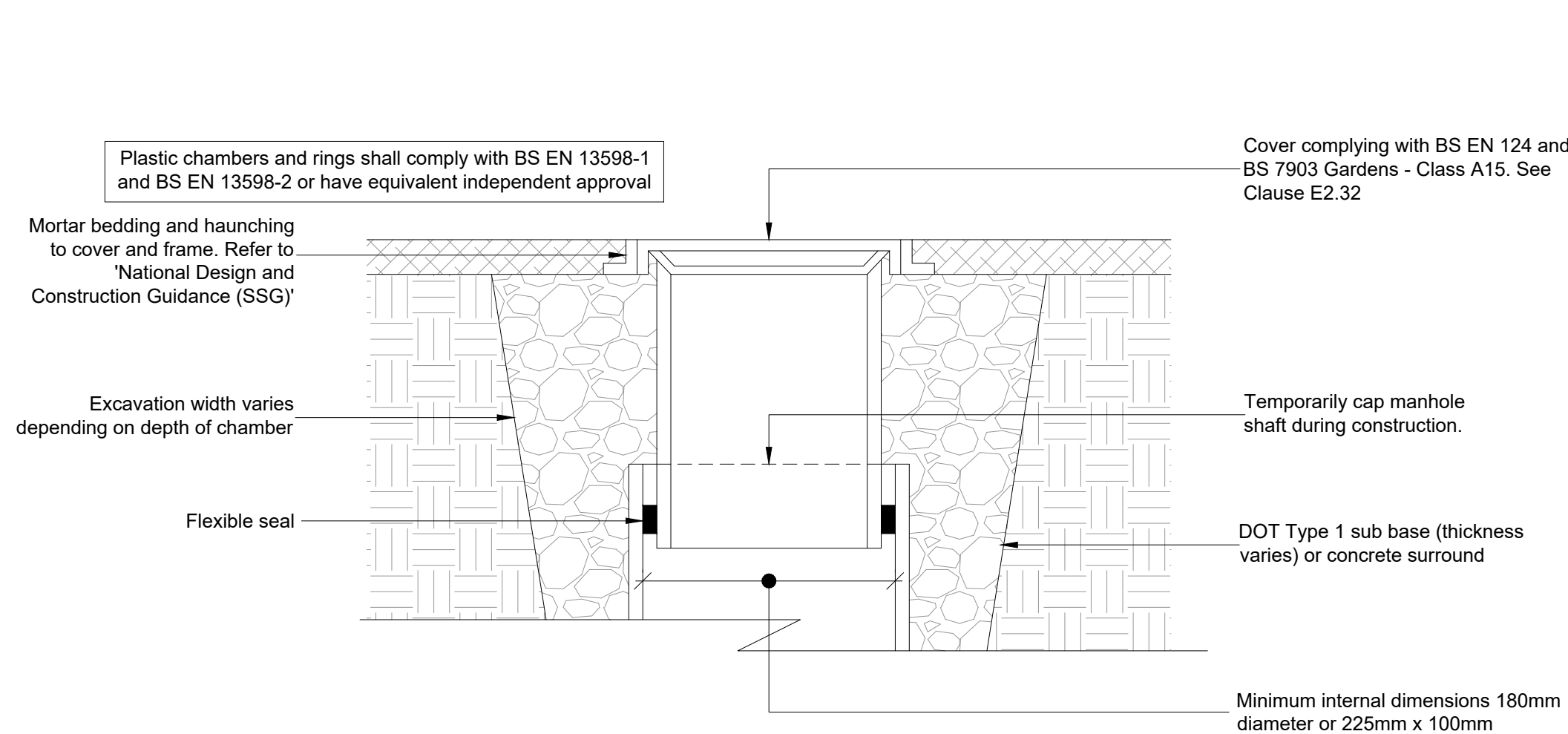
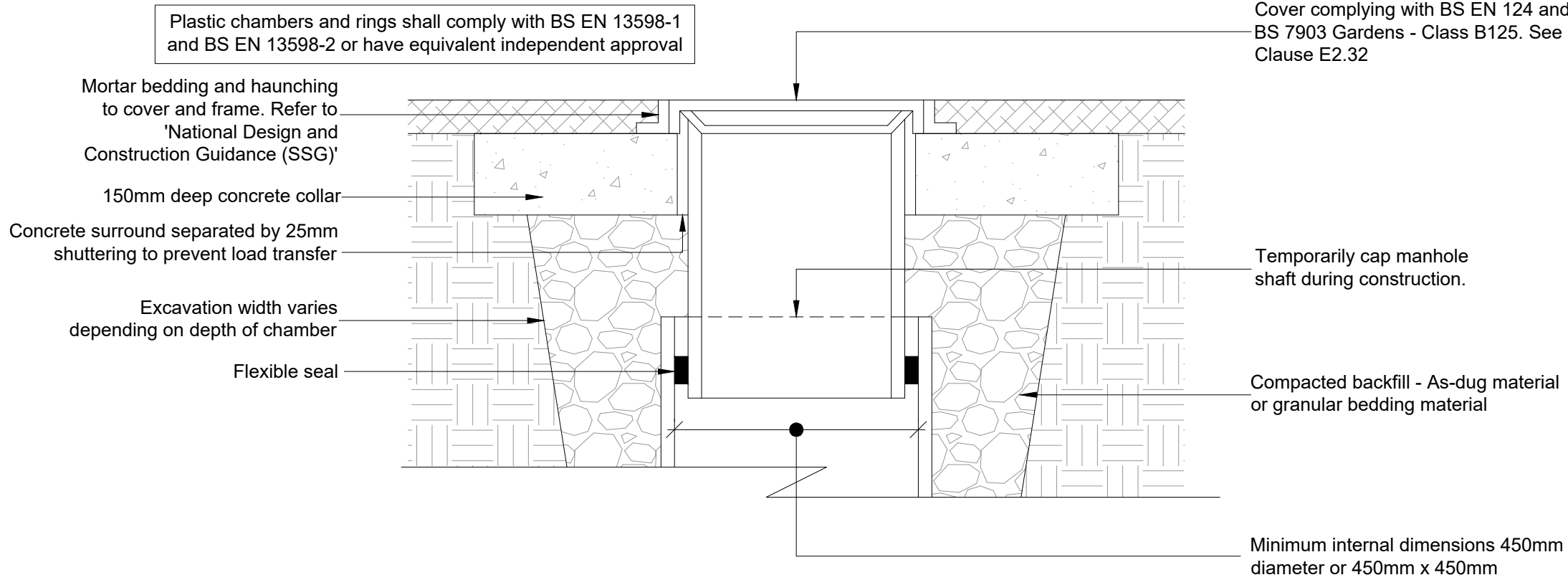




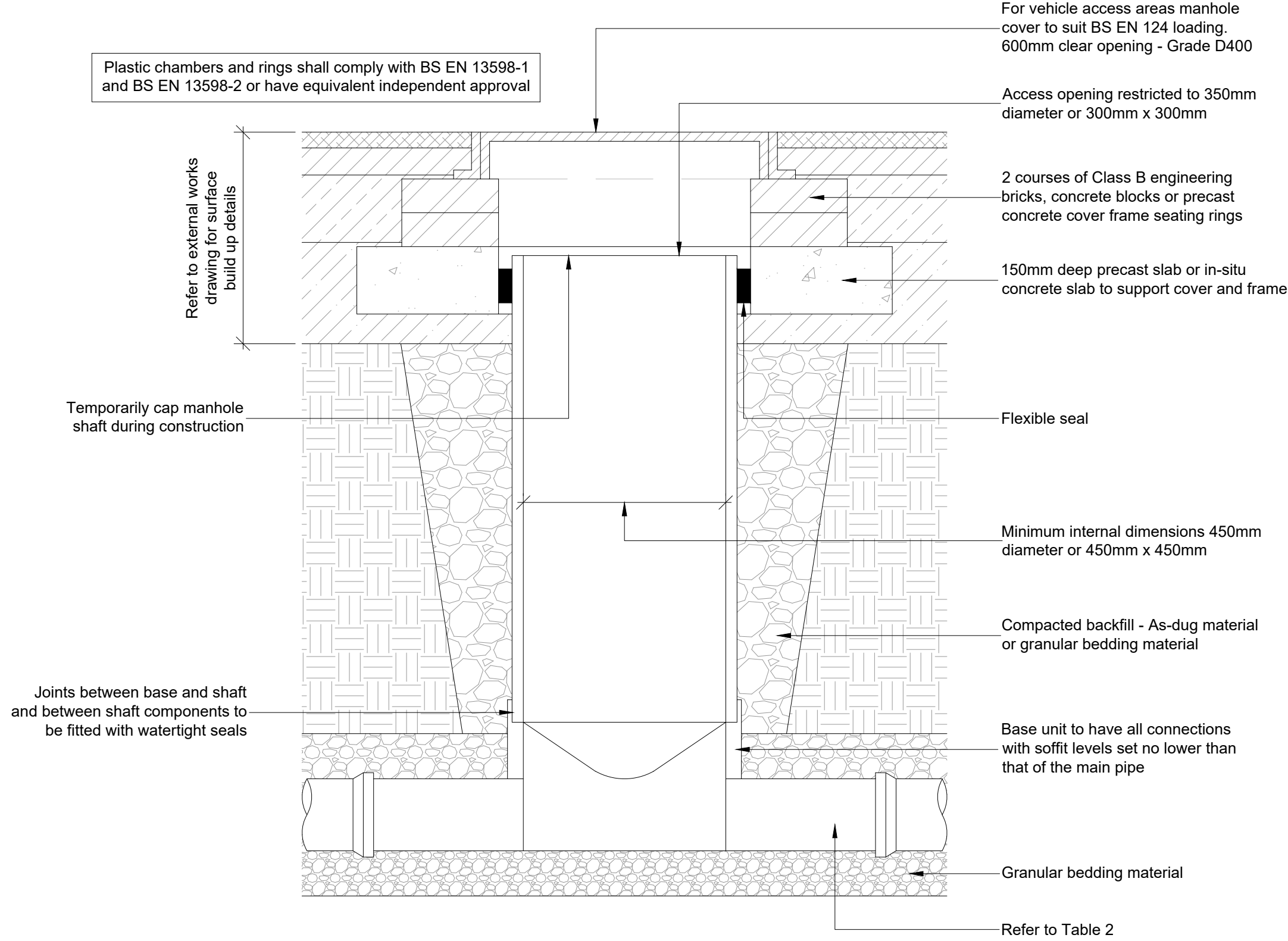
PPIC COVER DETAIL FOR AREAS SUBJECT TO NO VEHICLE LOADING
(SUITABLE FOR SOFT LANDSCAPING AREAS)

SCALE 1:10



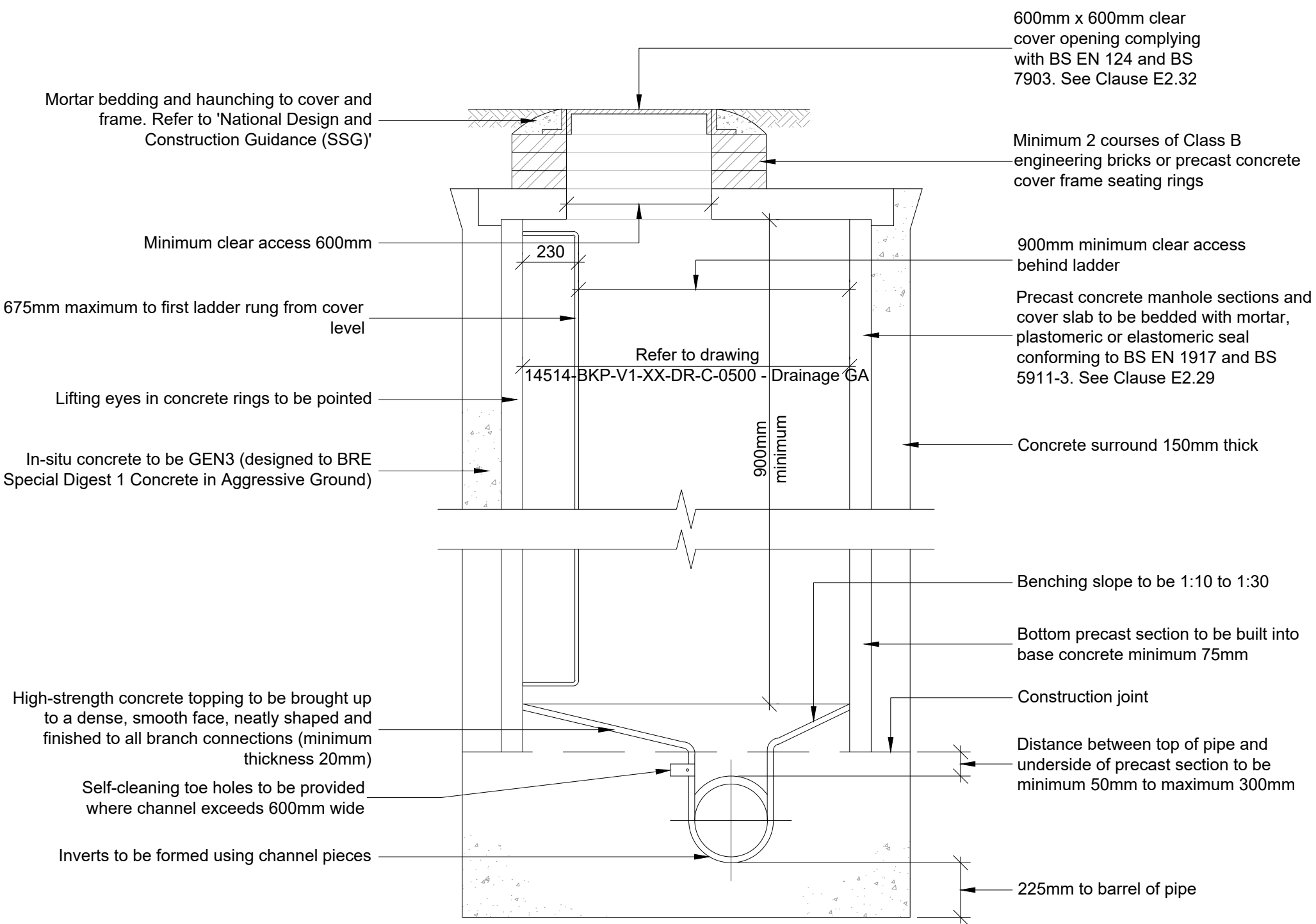
PPIC COVER DETAIL FOR AREAS SUBJECT TO LIGHT VEHICLE LOADING
(DOMESTIC DRIVEWAYS OR FOOTWAYS)

SCALE 1:10



PPIC COVER DETAIL FOR AREAS SUBJECT TO HEAVY VEHICLE LOADING

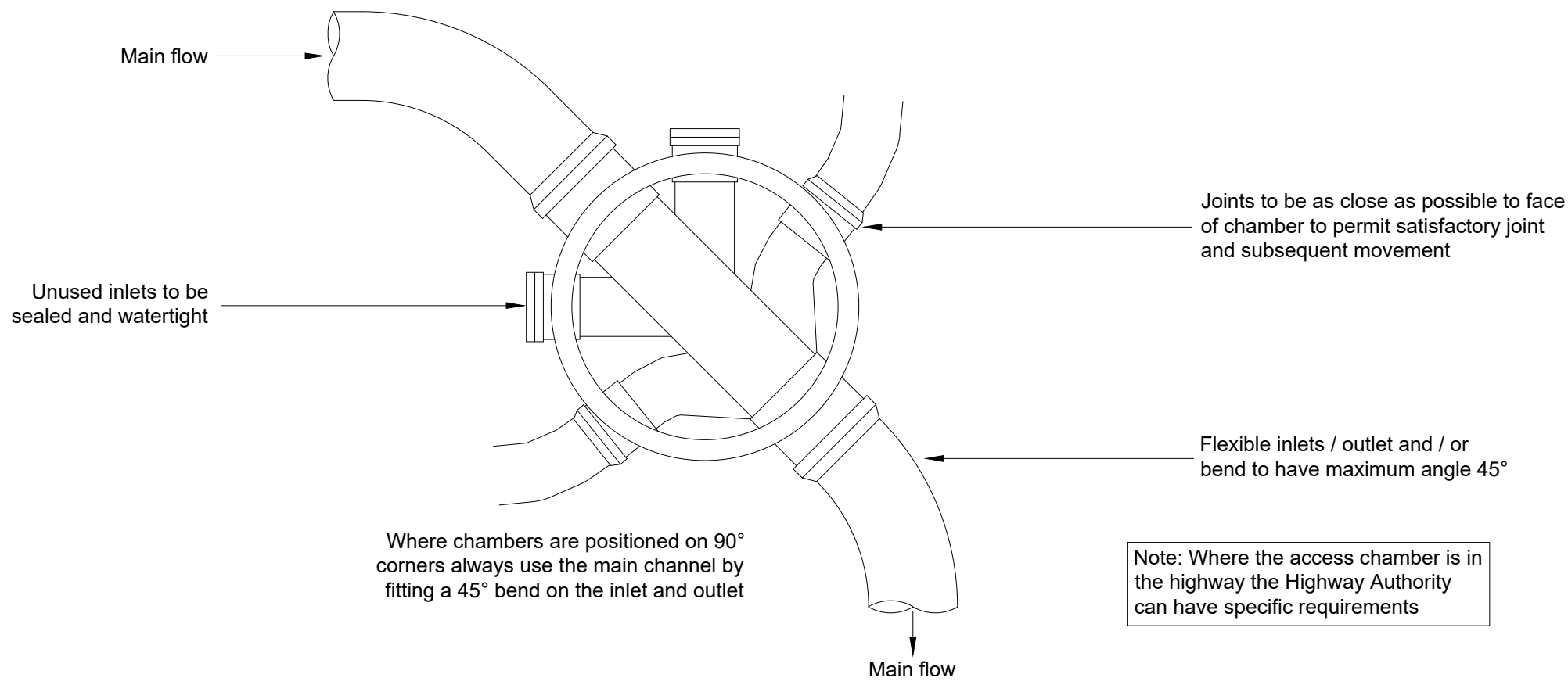
SCALE 1:10



TYPICAL PRECAST CONCRETE MANHOLE DETAIL - 'TYPE B'

(MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m)

SCALE 1:20



TYPICAL PPIC ACCESS CHAMBER DETAIL - 'TYPE 3' (FLEXIBLE MATERIAL DETAIL)

(DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m)

SCALE 1:10

DRAINAGE NOTES

- All drainage works shall be carried out in accordance with BS EN 752:2008 drainage and sewer systems outside buildings, the current building regulations and the local authority building control specifications and requirements.
- Any drainage to be put forward for adoption either within the site or outside shall be constructed to 'National Design and Construction Guidance (SSG)' and any specific requirements of the adopting sewerage/water authority.
- The location, size and depth of all existing drains/sewers and services shall be established by the contractor prior to the commencement of works on site. Any discrepancies from the information indicated on these drawings shall immediately be brought to the attention of the engineer.
- The contractor shall allow for the protection, temporary and permanent support and diversion and diversion works as necessary, to all existing services to the satisfaction of the utility companies.
- The contractor shall allow for dealing with surface water run off into excavations and from groundwater by means of sumps, pumping and de-watering as appropriate, in order to keep the excavation as reasonably dry as possible during the construction of the works.
- All levels and dimensions shall be verified on site prior to the commencement of any works. Any discrepancies shall immediately be brought to the attention of the engineer.
- The contractor shall take all necessary safety precautions in line with current legislation when working in/near confined spaces, deep excavations and machinery.
- The contractor shall allow for obtaining all approvals from the relevant authorities when working in the public highway and on the sewerage system.
- The contractor shall suitably protect pedestrians and vehicles from working areas.
- All pipes shall be laid with level soffits and all manhole/inspection chamber invert levels shown are for the outgoing pipe (unless otherwise indicated in the drawing), pipe runs shall be laid to the invert levels as detailed on the contract drawings. (Note that all pipe gradients indicated on the drawings are approximate).
- All rainwater pipes and internal foul drain connections points are to be sized & positioned as shown on the architects drawings. The contractor shall supply suitable adaptors at proposed ground levels or finished floor level to allow connection of the above ground drainage system. (Details of the above ground drainage system and adaptors all by others.)
- Upon completion of the drainage works the contractor shall clean all drain runs by jetting and remove all debris from site. No debris shall be permitted to enter the public sewer and/or watercourse system. Once the drainage system has been fully cleaned out, a CCTV camera condition survey shall be undertaken to all constructed drainage and sewer pipes with the footage issued to the engineer for view. The as-built invert and cover levels shall be recorded by the contractor and passed on to the engineer for review.

TABLE Z - GRADING FOR
LAYING & JOINTING MATERIAL

Sieve size (mm)	Percentage passing
14	100
10	98 - 100
6.3	80 - 99
2.0	0 - 20
1.0	0 - 5

These gradings are typical, advice should be sought from block manufacturer on specific gradings suitable for their products/system.

NOTES

- Do not scale from this drawing.
- This drawing is copyright and is sent to you in confidence. It must not be copied, used or disclosed, in whole or in part, to third parties without written permission. It remains the property of Booth King Partnership Ltd. and must be returned on request.
- This drawing is to be read in conjunction with all relevant contractual documents.
- Anyone using this drawing must be aware of their legal duties under the CDM Regulations 2015, refer to the HSE website for further information. BKPL are not Principal Designers.
- All dimensions shown on this drawing are in millimeters unless noted otherwise.
- If the Contractor consider that they do not have sufficient information to safely complete the works detailed on this drawing, they should contact the Engineer.
- All works are to be carried out in accordance with the Building Regulations (as amended) and to the approval of Building Standards.
- Refer to CSE-BKP-00-XX-DR-C-52-0560 - MH8718 Relocation Plan for proposed location.

TABLE 1 - MANHOLE DIAMETER

Nominal internal diameter of largest pipe in manhole	Internal diameter of the manhole (mm)
< 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800

TABLE 2 - ROCKER PIPE LENGTH

Nominal diameter of pipe (mm)	Maximum effective length (m)
150 - 600	0.60
675 - 750	1.00
> 750	1.25

TABLE 3 - MANHOLE COVER TYPE

Location of manhole	Cover class
Landscape areas	A15
Footpaths and driveways	B125
Highway (including areas with HGV access)	D400

COMPRESSIBLE FILLER & PACKING
FOR PIPELINES

Nominal diameter of pipe (mm)	Thickness of compressible filler (mm)
< 450	18
450 - 1200	36
> 1200	54

P1	06.03.23	Preliminary Issue	AA
REV	DATE	REVISION DETAILS	INITIALS

bk

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PROJECT:
Church Street, Eccles

TITLE:
Drainage Details
Sheet 1

SCALE @ A1:1	DRAWN:	DATE:	REVISION:	STATUS:
As Shown	AA	Mar 2023	P1	P

DRAWING No:
14681-BKP-ZZ-XX-DR-C-0510

PRELIMINARY