

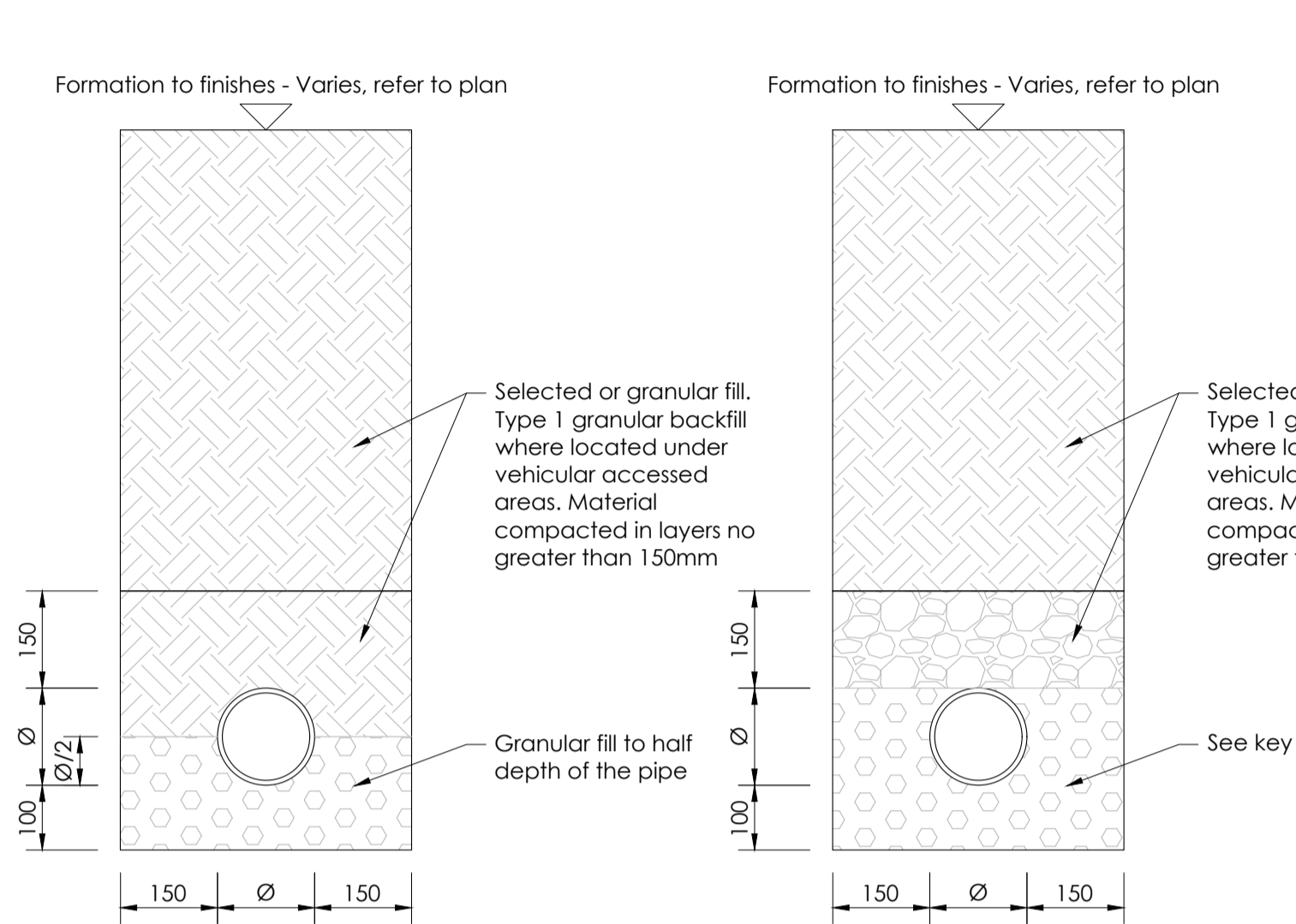
Protection Measure Notes

For concrete and clay pipes, where cover to pipe is less than 1.2m in trafficked areas, or 0.6m in soft landscaped areas, then pipe protection of either a concrete slab or concrete pipe surround, to be used as agreed with the building inspector.

For thermoplastic pipes, where cover to pipe is less than 0.9m in trafficked areas, or 0.6m in soft landscaped areas, then pipe protection of either a concrete slab or concrete pipe surround, to be used as agreed with the building inspector.

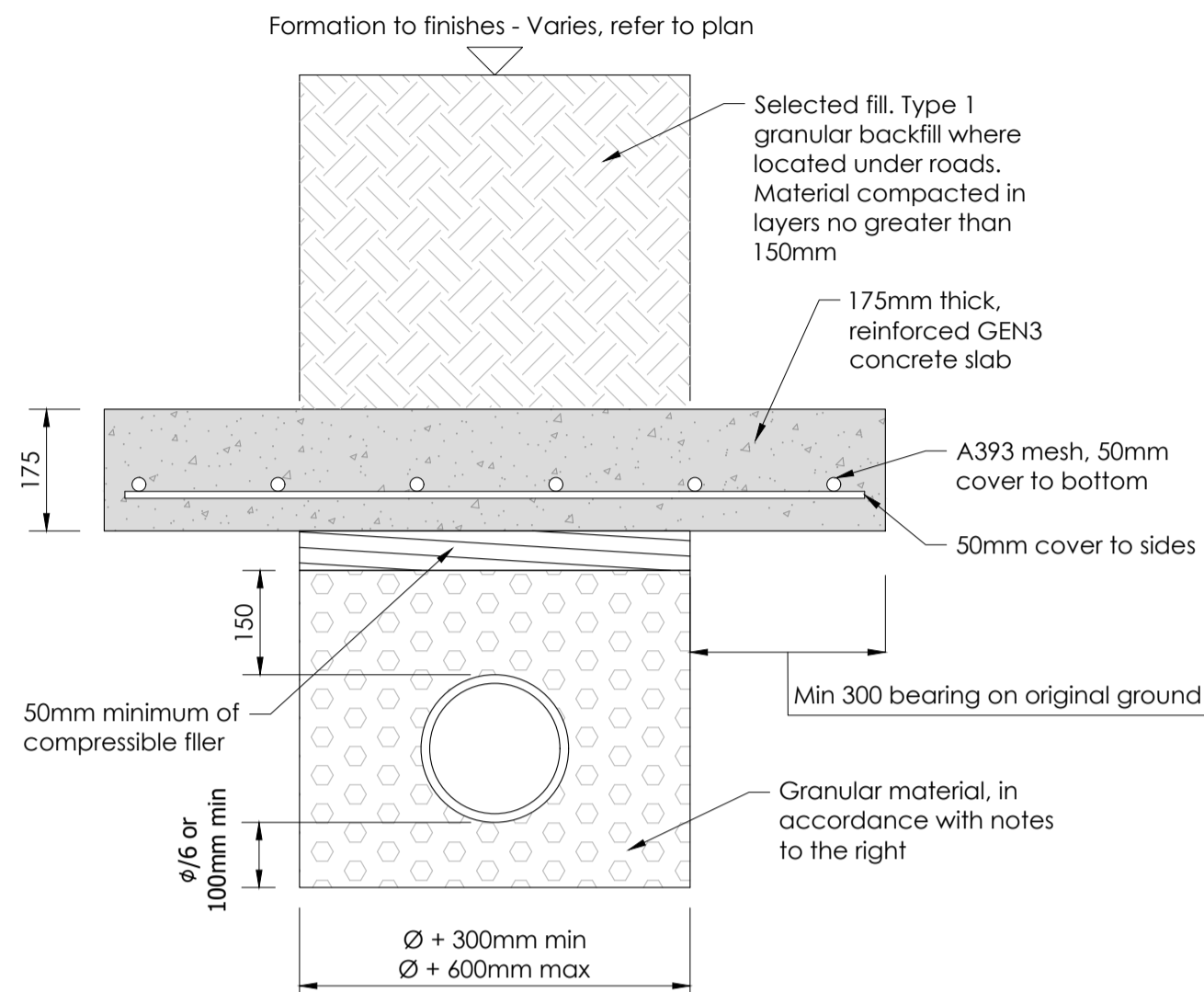
Material to be in accordance with Building Regulations Part H.

Pipes and cover to be in full accordance with Building Regulations Part H. In particular Tables 8, 9 and 10.

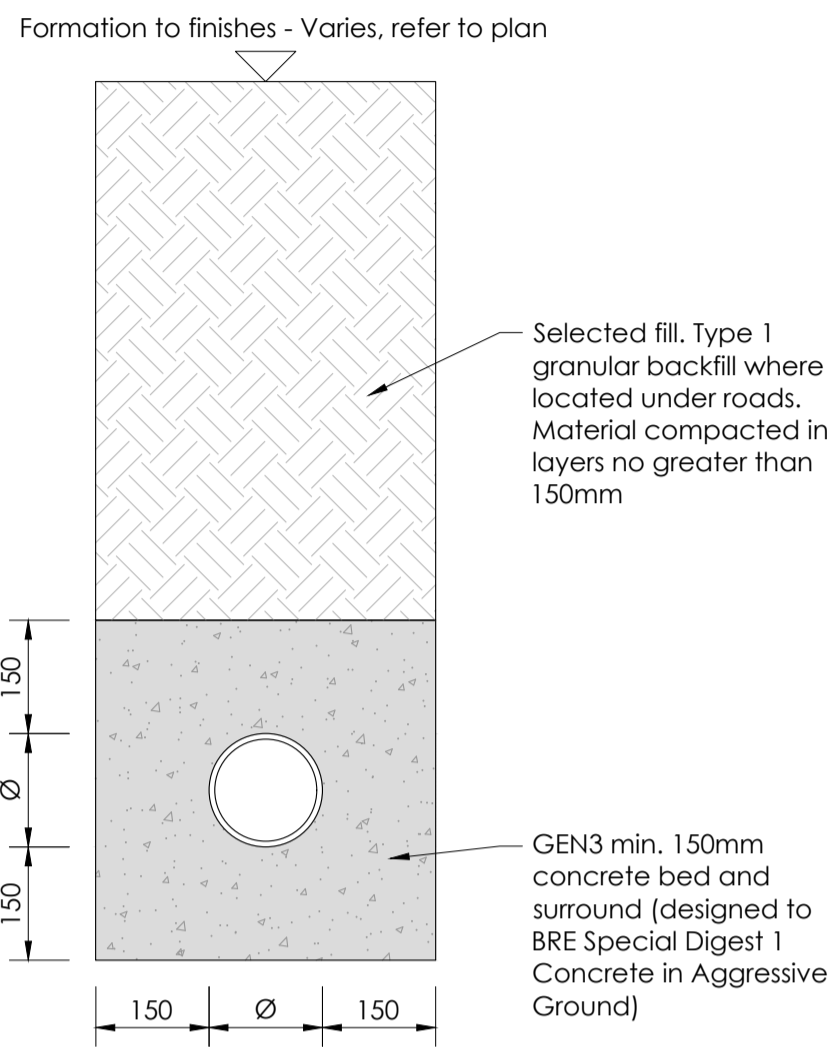


Type 'B': Bedding Factor 1.9
Generally suitable in all soil conditions
(Scale 1:10)

Flexible Pipes
(Scale 1:10)

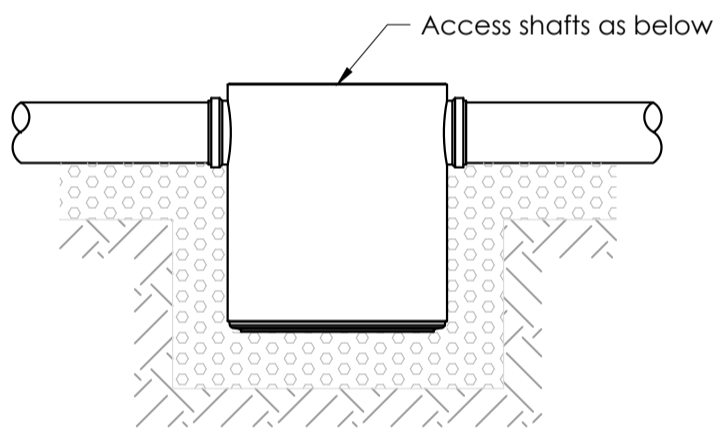


Concrete Slab Pipe Protection
(Scale 1:10)



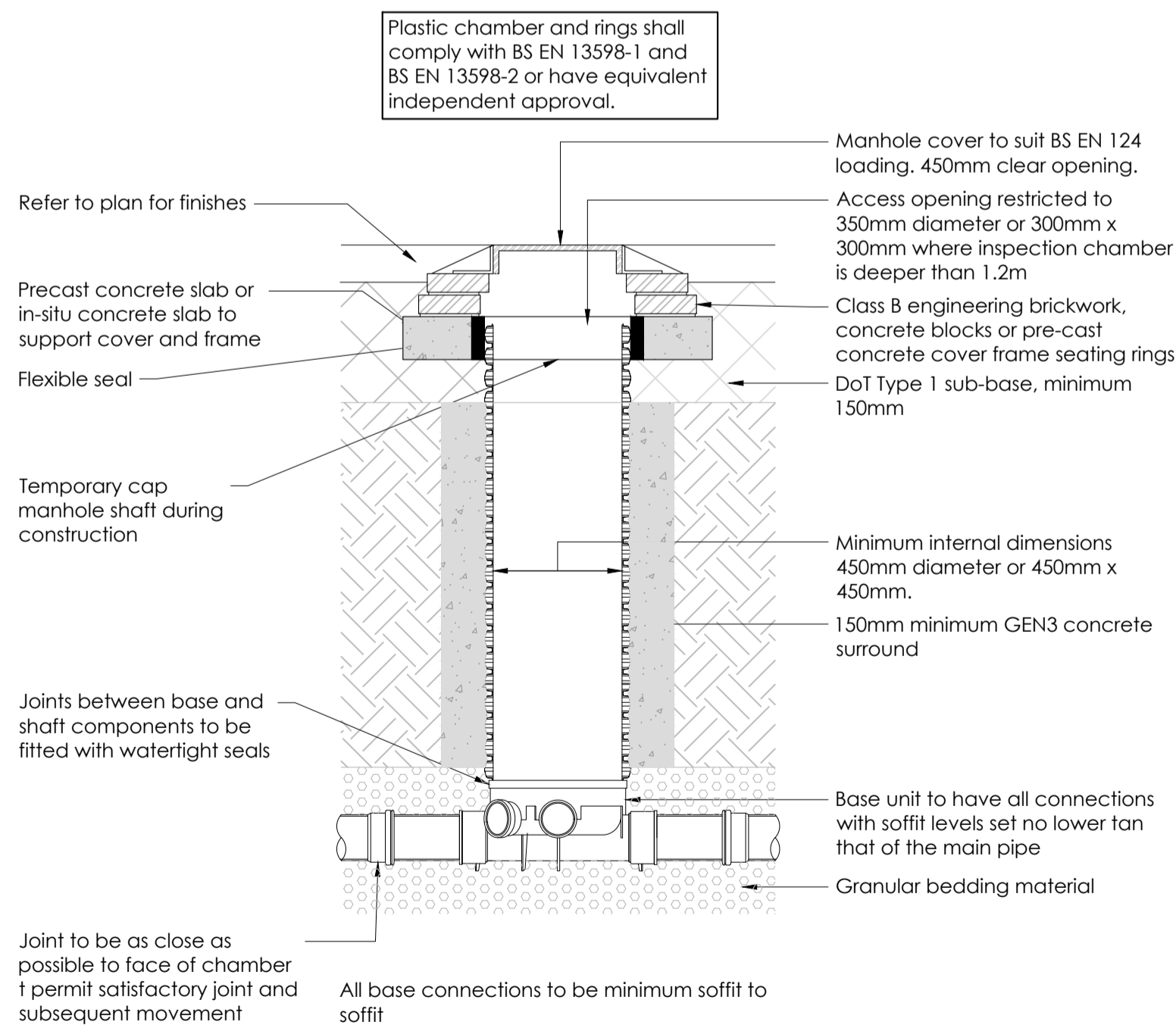
Type 'Z' Bedding
(Scale 1:10)

Note:
Type Z pipe surround must be agreed by the building control inspector. Only practical solution for very shallow pipes.



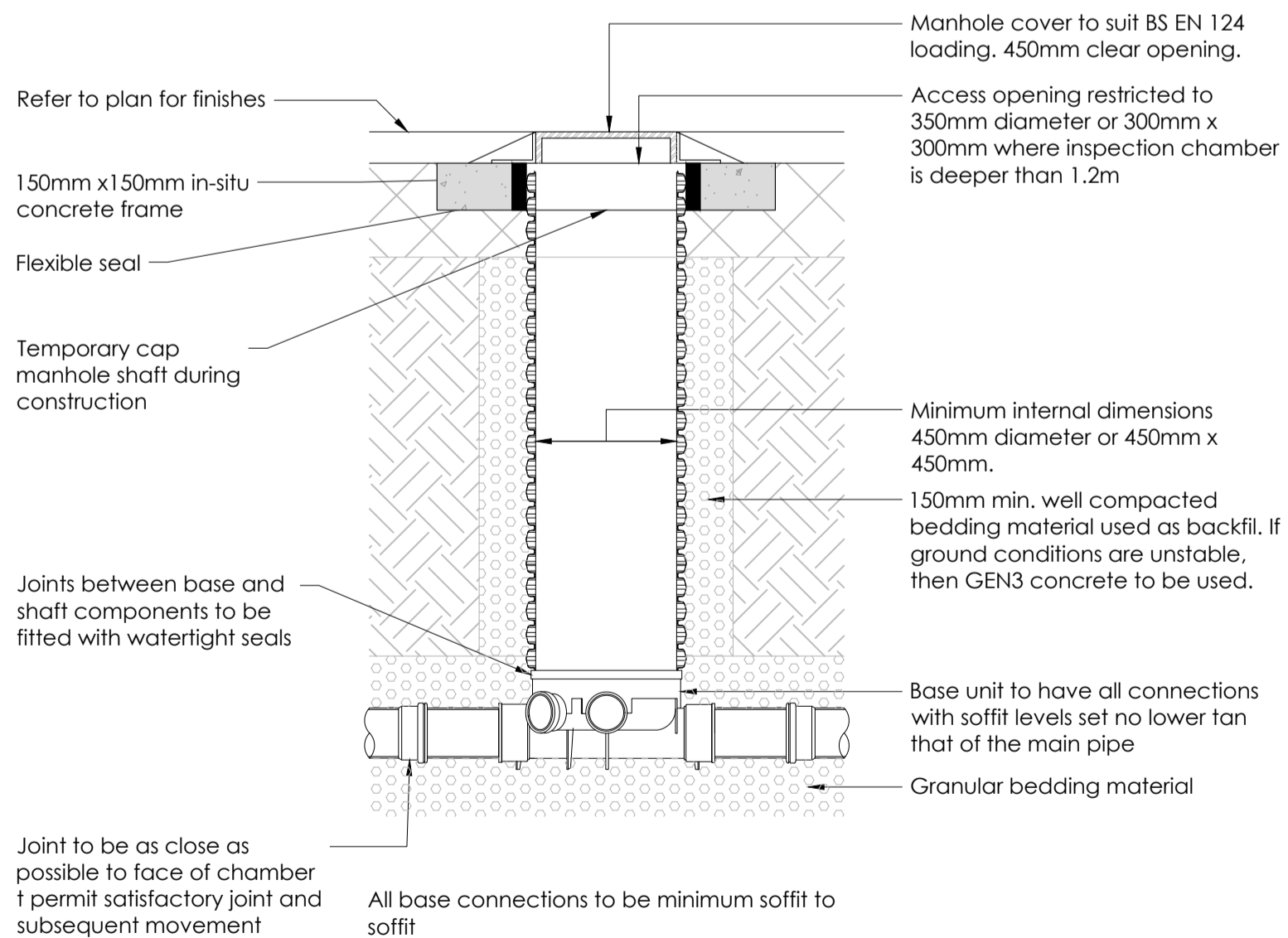
Alternative PPIC Catchpit Base

For either PPIC construction
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)



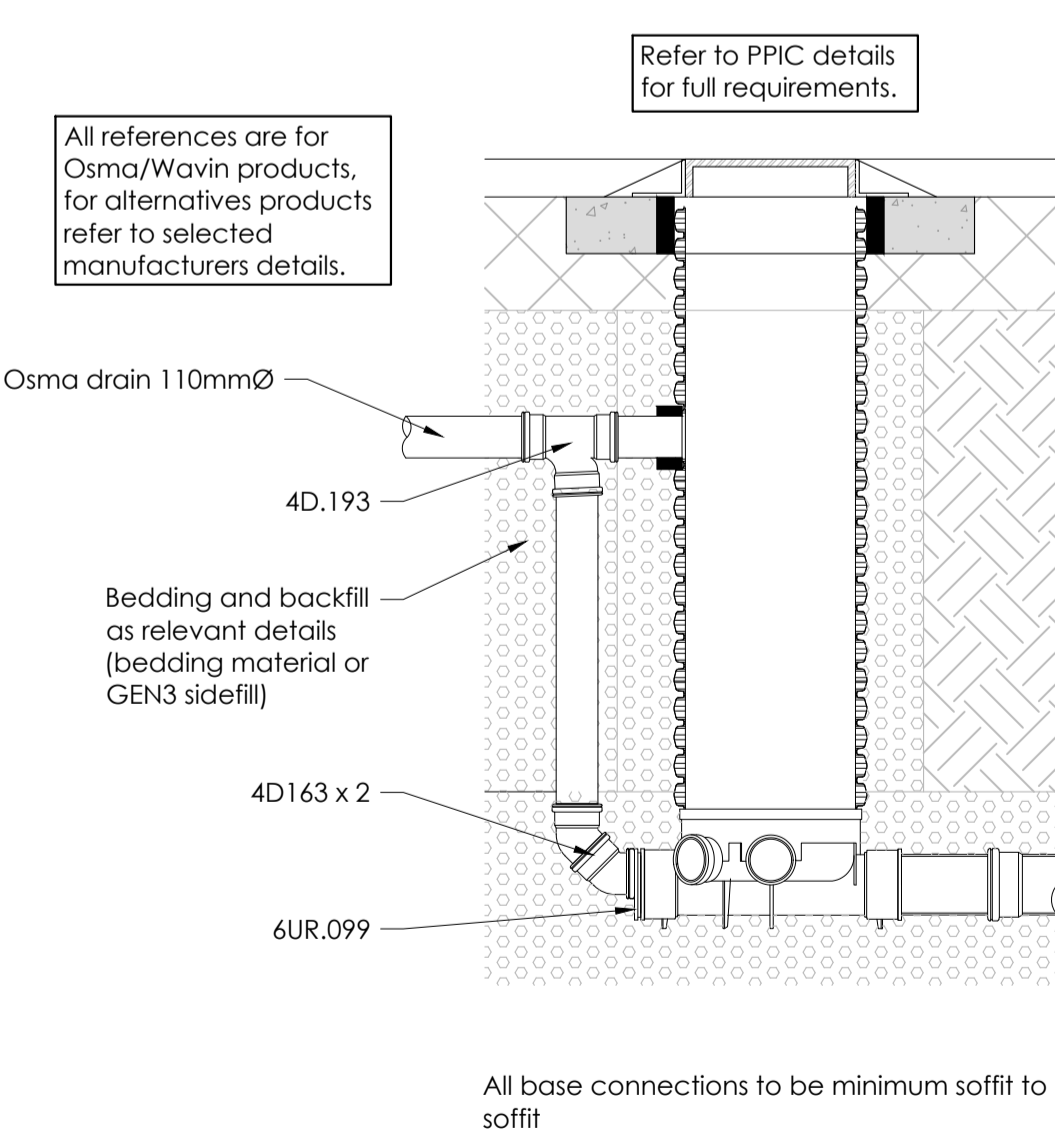
Polypropylene Inspection Chamber

In areas subject to vehicular loading
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)



Polypropylene Inspection Chamber

In Pedestrian Only Areas
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)



Typical Backdrop into PPIC

Refer to full PPIC details for correct loadings
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)

Key

Selected fill - free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material, vegetable matter.

Granular Material - for rigid pipes the granular material should conform to BS EN 1610 Annex B Table B.1.5 and should be single size material or graded material from 5mm up to a maximum size of 10mm for 100mm pipes, 14mm for 150mm pipes, 20mm for pipes from 150mm up to 600mm diameter and 40mm for pipes more than 600mm diameter. Compaction fraction maximum 0.3 for class N or B and 0.15 for class F.

Selected or granular fill - free from stones larger than 40mm.

Compacted fill Type 1, Type 1 granular backfill material to Department of Transport Specification for Highway Works, clause 803.

Notes:

1. Provision may be required to prevent groundwater flow in trenches with class N, F or B type bedding.
2. Where the pipe has sockets and Class D bedding is used, holes which should be as short as is practicable should be prepared in the trench bottom to give a clearance of 50mm beneath the socket.
3. Where the pipe has sockets and Class F or n bedding is used, the sockets should be not less than 50mm above the floor of the trench.

Pipe Bedding Materials

Nominal size of pipe (mm)	Granular material sizes (mm)
	Graded
100	5 to 10
150	5 to 14
225	5 to 20
300	5 to 20
375	5 to 20
450	5 to 20
525	5 to 20
600	5 to 20
600 Over	5 to 40

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

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The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Note:

1. All drawings to be read in conjunction with Structural Engineers Drawings.
2. All dimensions are in millimeters unless noted otherwise.
3. All discrepancies, of any nature to be reported back to the office stated in the title block.
4. If in doubt, ask!
5. Drainage to be constructed in accordance with building regulations part H.
6. Details to be read in conjunction with all other relevant drawings.
7. Setting out to be in accordance with the Architectural plans.
8. All proprietary items to be installed in strict accordance with the manufacturers instructions and recommendations.
9. All works to be carried out in accordance with the current British Standards, Codes for practice and Building Regulations.

REVISION DATE DRAWN DESCRIPTION



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CLIENT RTW Construction & Developments LTD

PROJECT Proposed Commercial development at Marsh Lane, Boston

DRAWING Private Drainage Details Sheet 1 of 3

DRAWN	PROJECT DESIGNER	PROJECT DIRECTOR
BJ	KB	KB
DATE	SCALE	PAPER SIZE
01.03.2022	As Shown	A1

DRAWING NUMBER 505-S11-00-SI-DR-C-3200

Working in partnership with Ralph Charman Associates & Beven Consultants