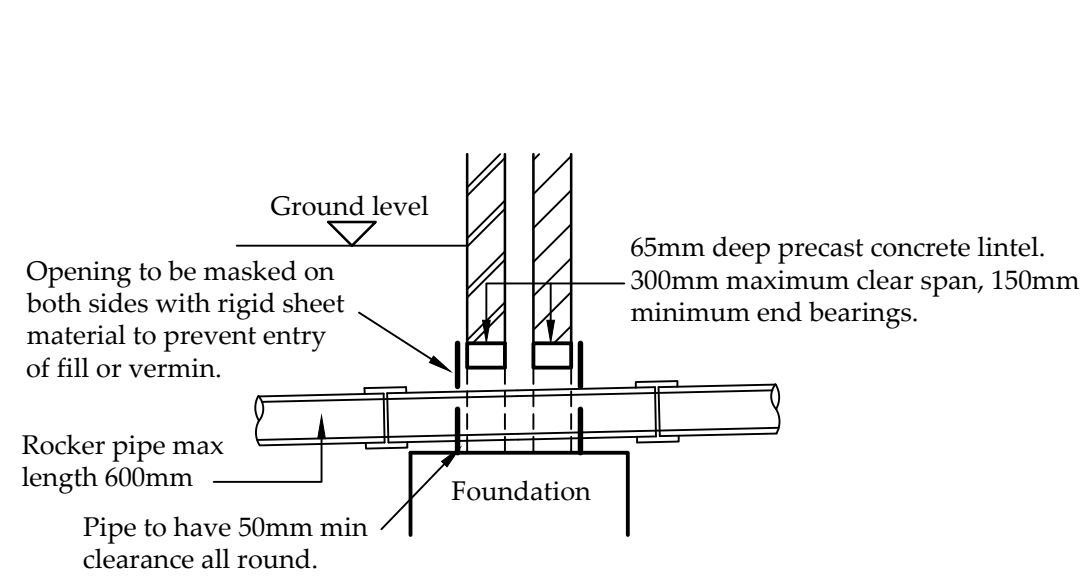
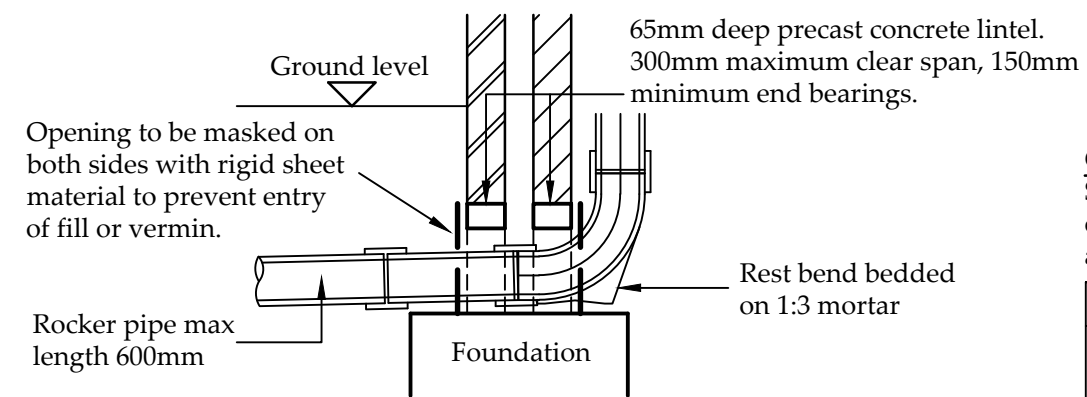
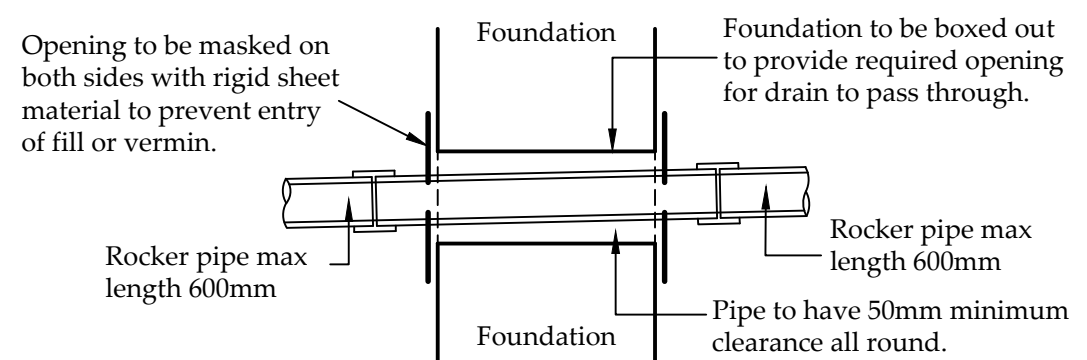




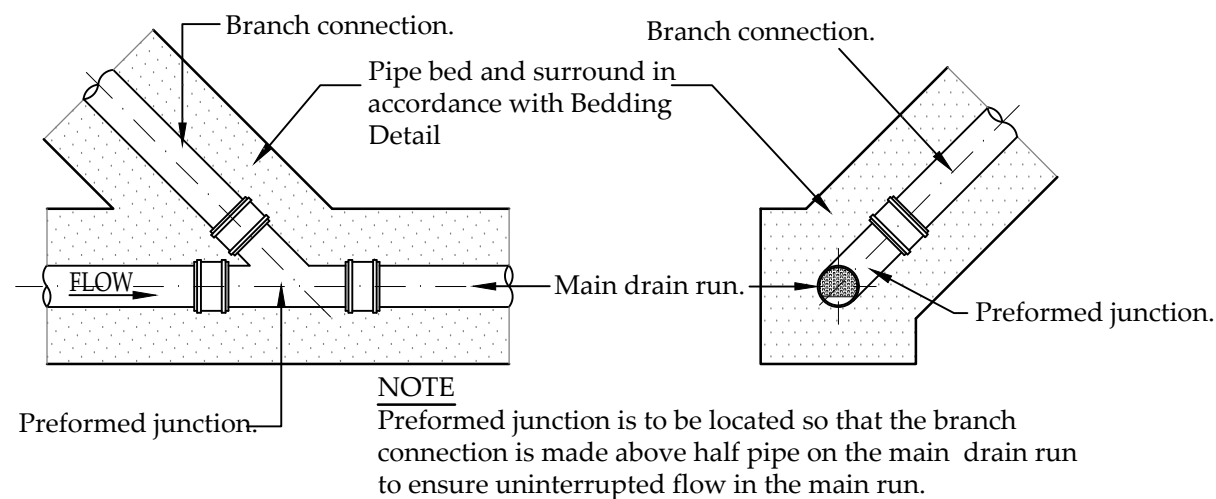
Detail Where Drain
Passes Through Wall



Detail Where SVP & Rest bend
Passes Through Wall

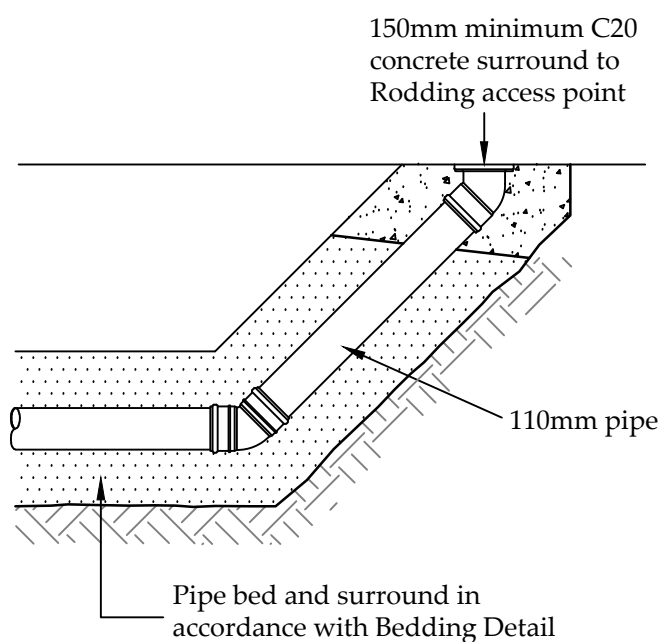


Detail Where Drain Passes
Through Foundation

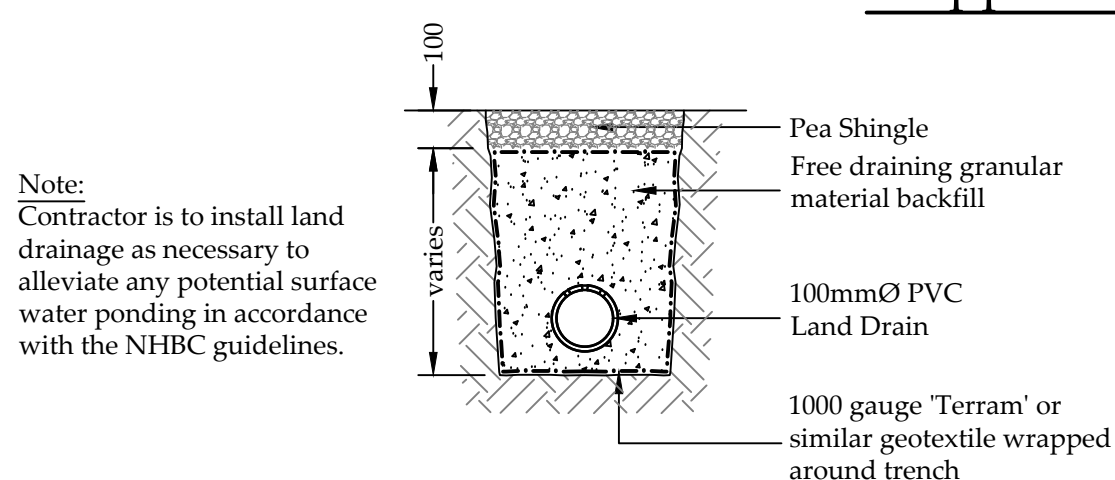


Plan Section

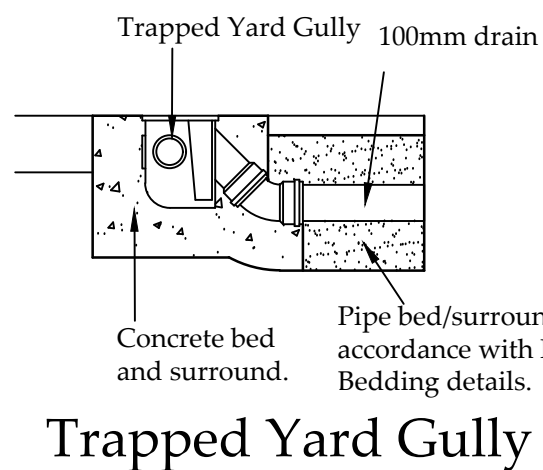
Preformed Junction Detail
1:20



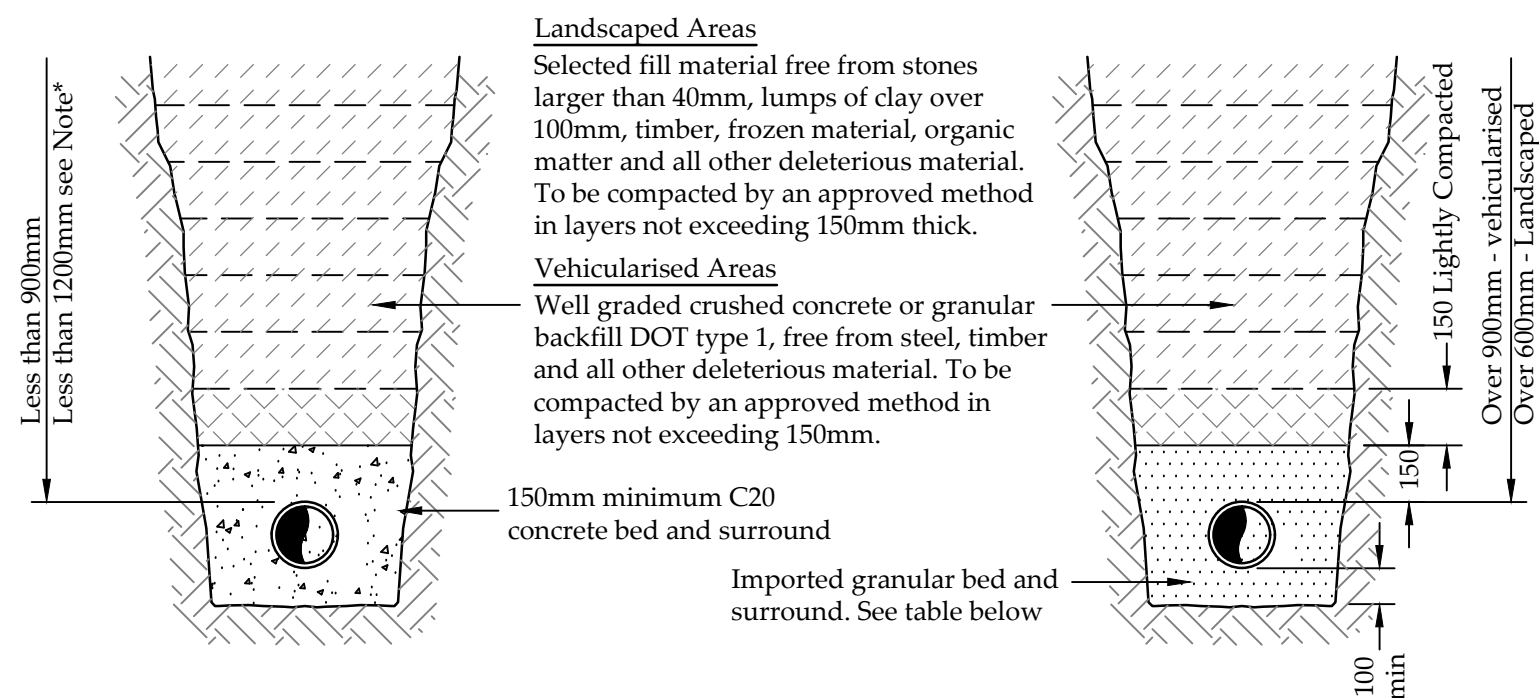
Typical Rodding Eye Detail



Land Drain Detail



Trapped Yard Gully



Under 900mm
(under 1200mm see Note*)

Over 900mm-Vehicular
Over 600mm-Landscaped

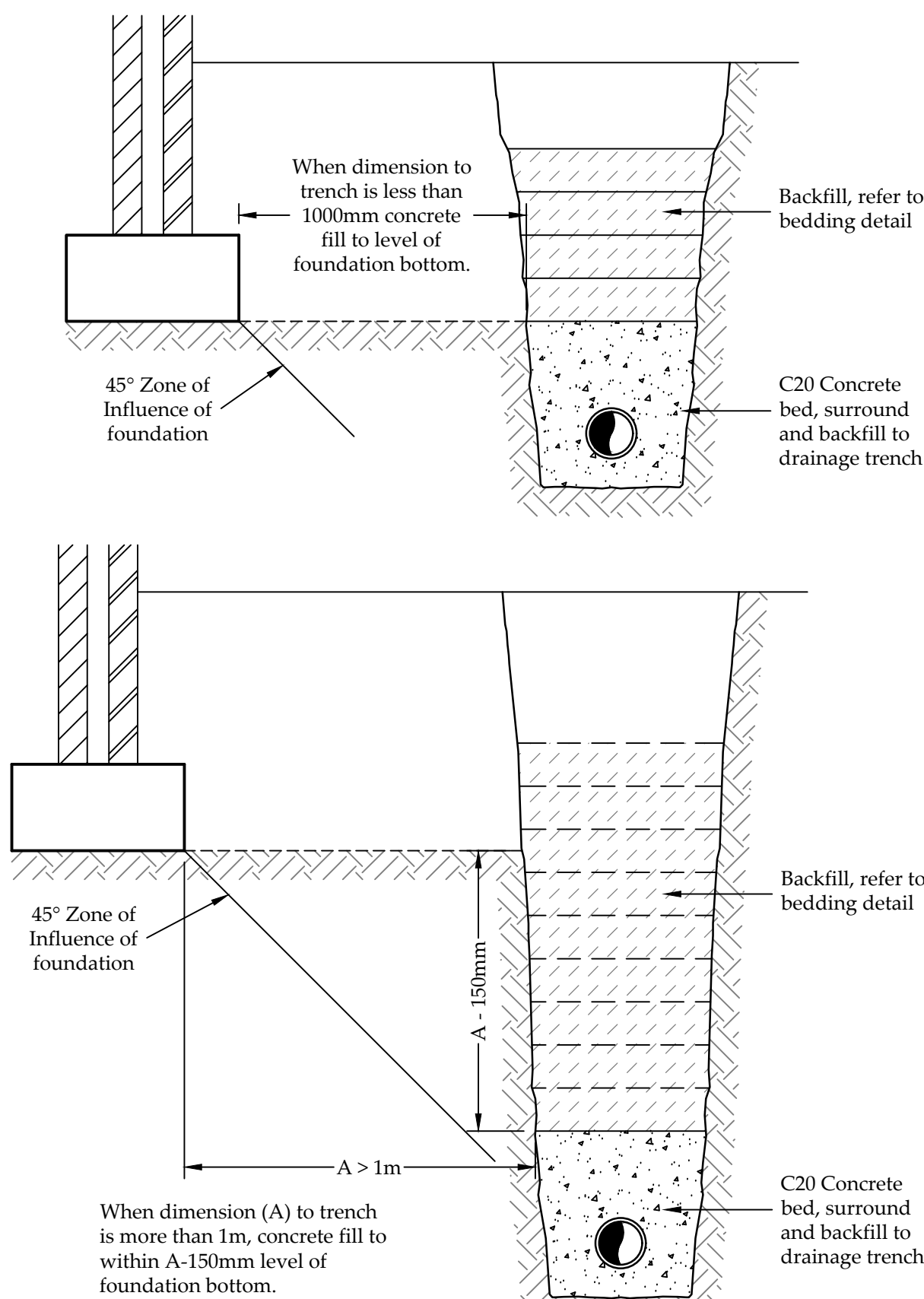
Pipe Bedding Details
Concrete, Clay & PVCu Pipes

Granular materials for Pipe Bedding
Single sized or graded aggregate complying with Table 4 of BS882 and BS EN 1610 Annex B Table B.15

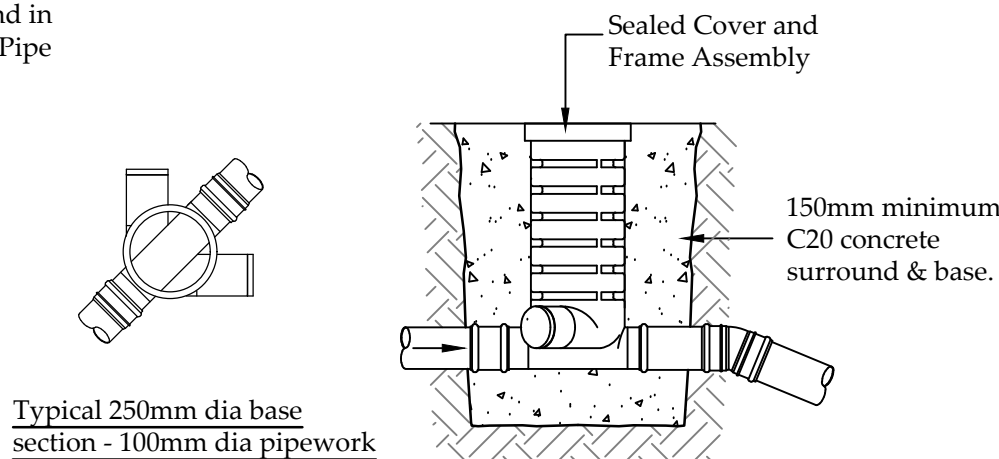
Pipe Size	Material Size
100mm	5-10mm
150mm	14mm
150-600mm	20mm
+600mm	40mm

Pipe Materials:
Vitrified Clay to BS665 & BS EN 295
Concrete to BS 5911
PVCu to BS EN 1401

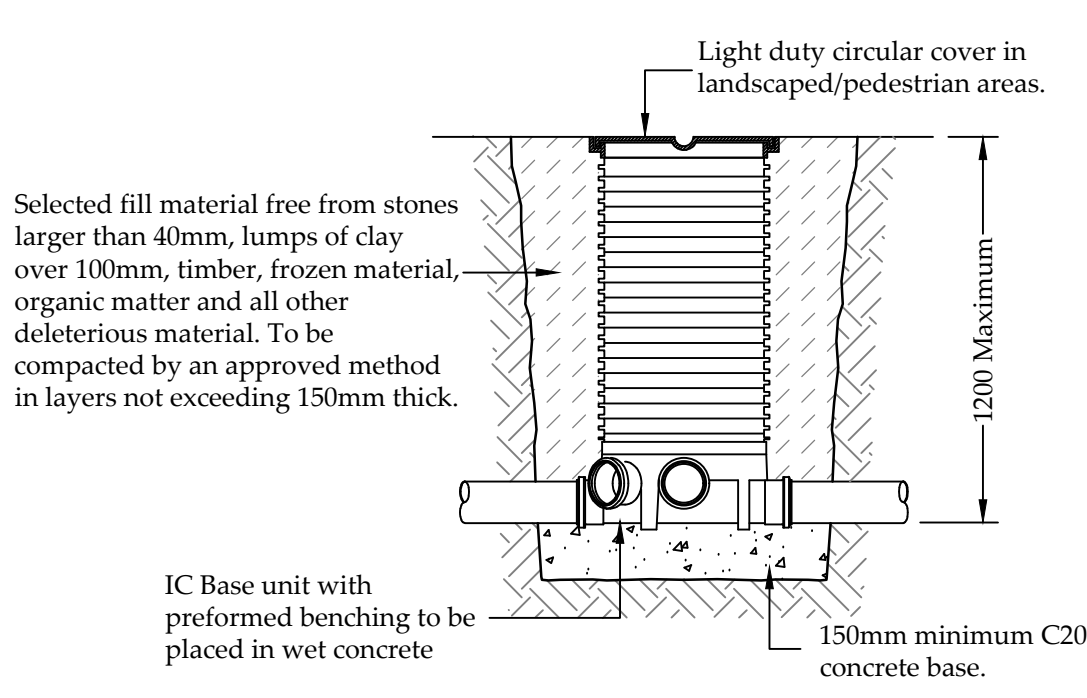
NOTE:
Concrete protection detailed to be installed where pipes are near foundations and as above in accordance with Part H of Building Regs., clause 2.45
NOTE*
Where PVCu pipes larger than 300mm diameter are used in vehicularised areas, the concrete protection detail shall be installed up to 1200mm cover.



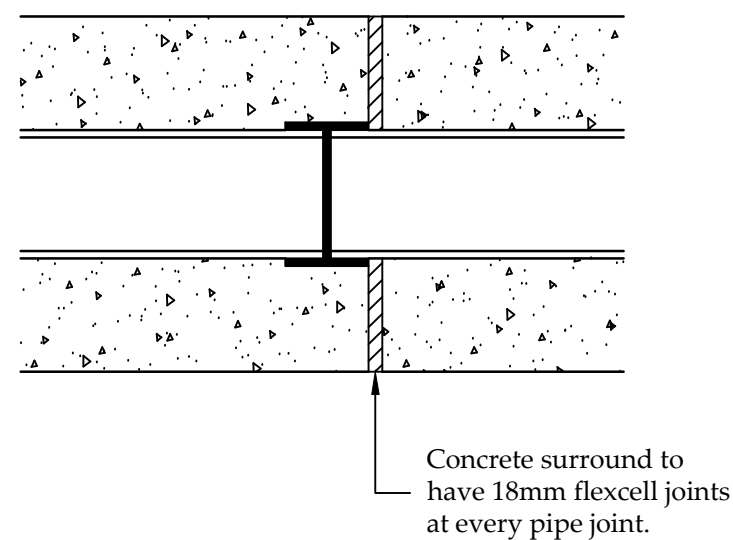
Pipe Runs Near Buildings



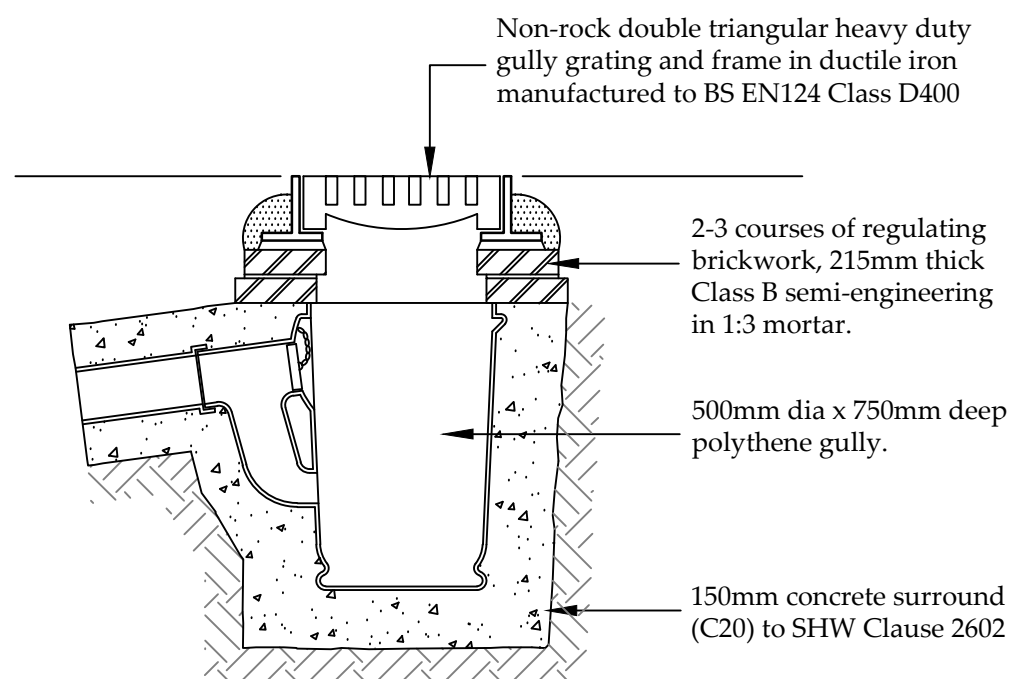
250 Dia Shallow Inspection
Chamber Detail



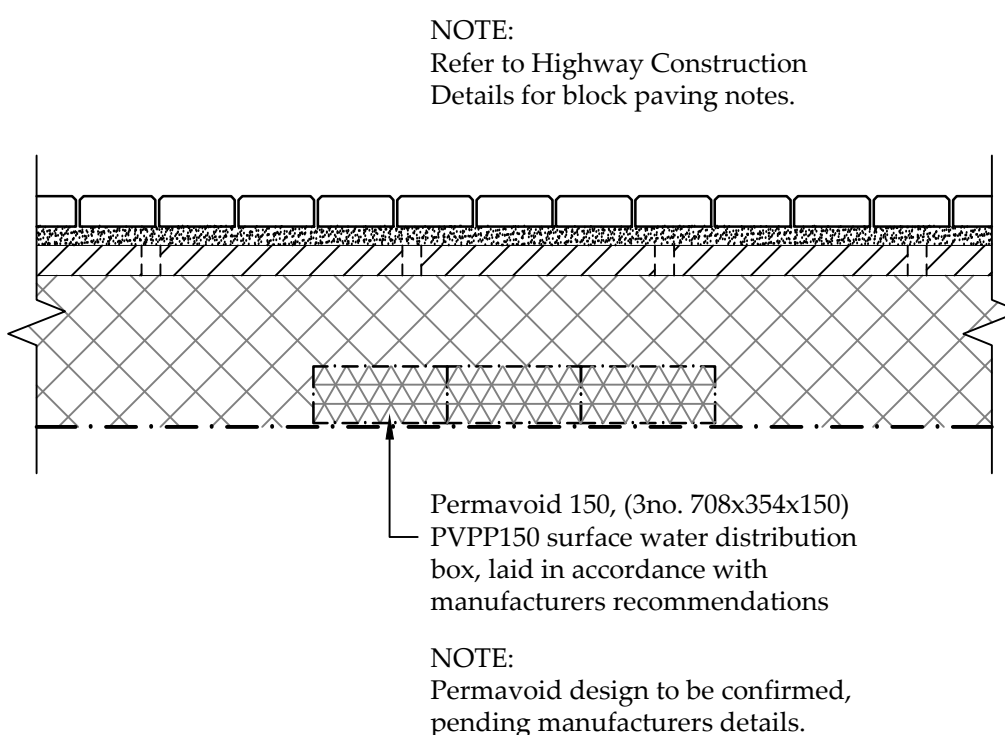
450 Dia Plastic Inspection
Chamber Detail For Use in
Landscaped/Pedestrian Areas



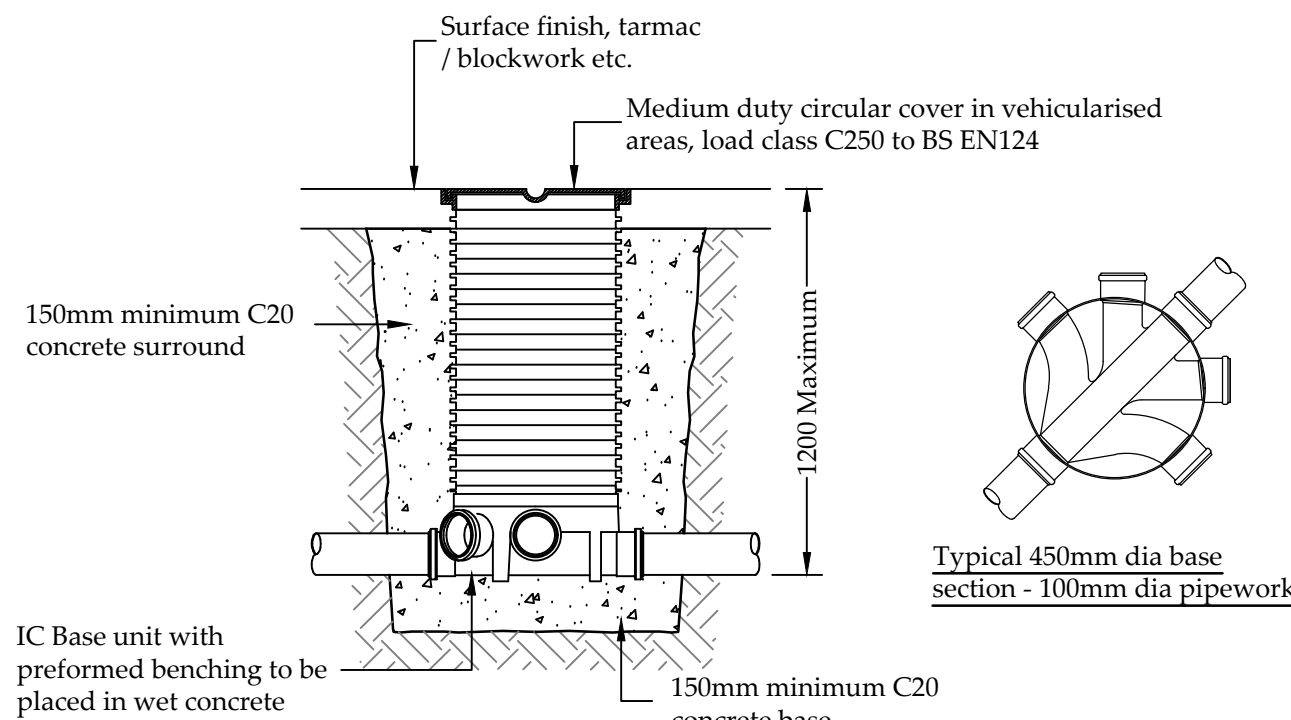
Expansion Joint Detail to
Pipe Concrete Bed & Surround
1:10



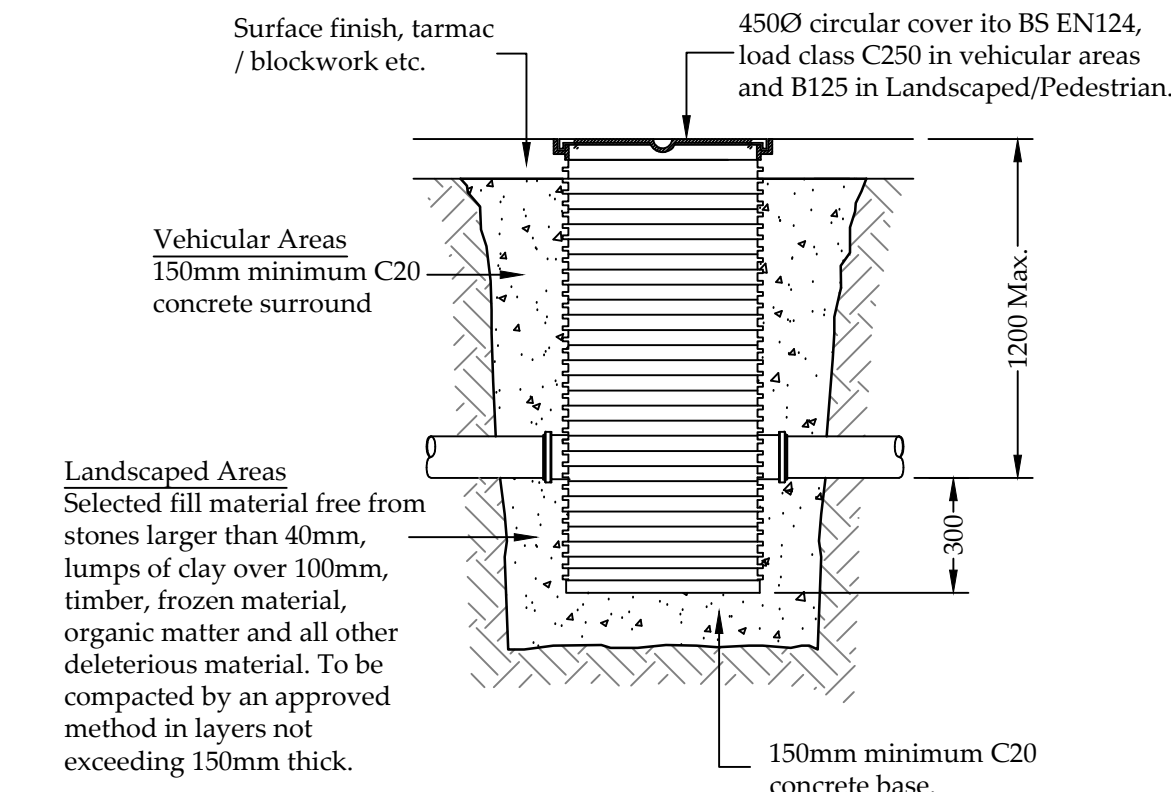
Gully Detail



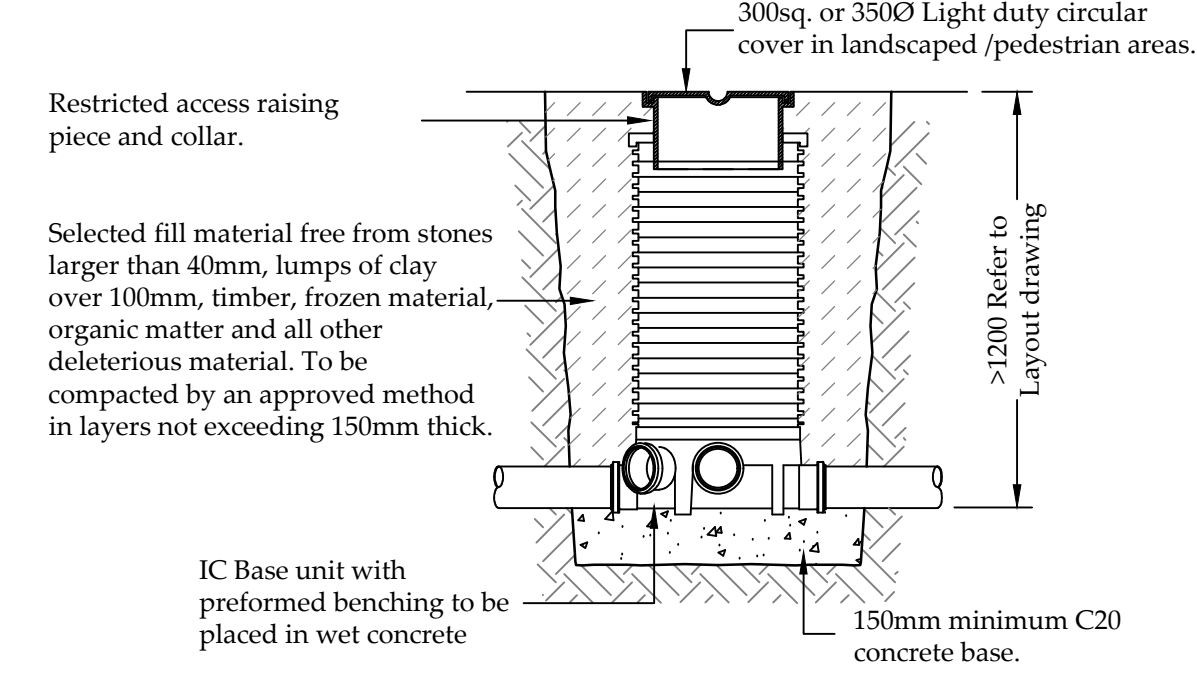
Permavoid Distribution Box



450 Dia Plastic Inspection
Chamber Detail For Use
in Vehicular Areas



450Ø Dia Plastic Inspection
Chamber, Catchpit



450 Dia Restricted Access Plastic
Inspection Chamber Detail For Use
in Landscaped/Pedestrian Areas

PRIVATE DRAINAGE NOTES

- All private drainage works to be in accordance with Part H of the current Building Regulations and BS 8301.
- All private drainage to be either:
PVCu to BS EN 1401-1 (BS 4660/5481) by Caradon, Marley or similar.
OR
Vitrified Clayware to BS 65 and BS EN 295.
OR
Concrete to BS 5911 and flexibly jointed.

The drainage design shown on this drawing has been based upon a PVCu drainage system.

- All private drainage to be 100mm diameter unless noted otherwise. Gully laterals to be sized to suit gully outlets. Connections to public sewers to be 150mm dia unless noted otherwise.
- Foundations adjacent to drain runs are to be constructed so that the difference between the formation level of the foundation and invert level of any drain must not exceed the horizontal distance minus 500mm.
- Where foul and surface water sewers cross and there is less than 100mm clearance short lengths of both runs are to be encased in concrete.
- All RWP, SVP and foul drainage positions are to be confirmed by the Architect.
- Where RWP's are connected direct to drain, rodding access plates are to be provided.

Notes:

- Do not scale from this drawing.
- All dimensions are in m unless otherwise specified.
- In case of any discrepancies in drawings or details refer to engineer for clarification. Unilateral decisions by the contractor will not be accepted.
- This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- The Contractor is to ensure that all design drawings and information are read concurrently and any discrepancies or omissions reported directly to Aventus Design.
- The Contractor must check the levels of all existing drainage outfalls prior to construction of any drainage, unless otherwise agreed, to ensure the proposed design may be achieved. Any discrepancies must be reported immediately to Aventus Design.
- Sulphates have been determined as class 1 (DS-1) for design purposes in accordance with BRE Special Digest 1 (2001). Buried Concrete to be in accordance with ACEC Site Class AC-1.
- All adoptable highway works to be in accordance with the Local Authorities Specifications.
- All adoptable drainage works to be in accordance with the Water Authorities standard guidelines for connections etc.
- Formation to road/hardstanding to be proof rolled and any soft spots in subgrade of road/Hardstanding areas are to be excavated and replaced with well compacted sub-base or free draining granular material to Department of Transport Specification for Highway Works Part 2' Table 6/1 Class 1 (General Granular Fill) and compacted in accordance with Table 6/4.

CDM REGULATIONS 2015

Aventus Design have considered and where reasonably practicable avoided foreseeable risks in the preparation of the design shown on this and related drawings. Significant risks which remain and associated control measures are identified in the Risk Register and should be given particular attention by the main contractor on site.
RISKS RELATING TO THIS DRAWING:
RISK NUMBERS 6 - 9 on Risk Register
NOTE: The Risk Register records only those elements considered unusual, difficult to manage or outside the anticipated expertise of a competent contractor.

Drawing Status PRELIMINARY ISSUE



REV.	DATE	DESCRIPTION	CHK	APP
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Aventus DESIGN
Civil & Structural Engineers

Client: Cala Homes

Site: Oughtonhead Lane,
Hitchin,
Herts. SG5 2NA

Title: Private Drainage Details 1 of 2

Drawing no. BA00378-C21	Aventus Ref. H1402
Issue: Scale: 1:20 @ A1	Checked: - Date: -
Drn: S.U.	Approved: - Date: -

150mm
100mm
150mm
250mm
ORIGINAL SIZE - A1