

FOUL WATER MANHOLE SCHEDULE							
POINTS	COVER	INVERT	COVER TYPE	COVER SIZE	DEPTH	SIZE	SPECIAL REQUIREMENTS
FW01	25.450	24.770	B125	430 X 430	680mm	450Ø	DOUBLE SEALED RECESSED COVER
FW02	25.450	24.730	B125	430 X 430	720mm	450Ø	DOUBLE SEALED RECESSED COVER
FW03	25.450	24.680	B125	430 X 430	770mm	450Ø	DOUBLE SEALED RECESSED COVER
FW04	25.450	24.625	B125	430 X 430	825mm	450Ø	DOUBLE SEALED RECESSED COVER
CW01	26.430	24.515	B125	300 X 300	1915mm	450Ø	DOUBLE SEALED RECESSED COVER

SURFACE WATER MANHOLE SCHEDULE							
POINTS	COVER	INVERT	COVER TYPE	COVER SIZE	DEPTH	SIZE	SPECIAL REQUIREMENTS
SW01	26.430	24.955	B125	300 X 300	1475mm	450Ø	RECESSED COVER

General
 1.1 This drawing is to be read in conjunction with all Architect's, Engineer's and Services Engineer's drawings and specifications.
 1.2 Do not scale from any of the structural drawings. All dimensions to be verified on site and any discrepancies should be highlighted.
 1.3 The contractor is responsible for the stability of the building and adjoining structures during construction and shall design, install, adapt and maintain all necessary propping and temporary works. A method statement for the temporary works must be submitted to the contractor administrator for comment before work begins.
 1.4 All materials to comply with the relevant British Standard.

- General Drainage Specification**
- All private drains shall be constructed and commissioned in accordance with the relevant sections of the Building Regulations Approved Documents and relevant British Standards.
 - Private surface water drains shall be laid at a minimum gradient of 1 in 100 or to the gradients and invert levels shown.
 - Private foul water drains shall be laid at a minimum gradient of 1 in 80 or to the gradients and invert levels shown.
 - Foul pipework connections to first access point shall be laid at a minimum gradient of 1 in 40 or to the levels shown. All connections to be made soffit to soffit unless noted otherwise.
 - All concrete indicated in the construction of drainage infrastructure (pipe bedding, bedding, manholes etc) shall be standardised prescribed concrete ST2 and is to conform to BS EN 206-1 and BS 8500-2. The maximum aggregate size shall be 20mm.
 - Where excavations for pipe runs are parallel and in close proximity to each other and/or other service trenches, the Contractor shall ensure that adequate safety measures, including temporary shoring, are provided in line with current health & safety legislation and good practice. Particular attention is to be paid to adjacent trenches of differing invert levels.
 - All existing drainage found on site during the works shall be investigated, its operational status confirmed and the following applied:
 - Inoperative drainage shall be cut back and pipe runs filled with concrete grout.
 - 'Live' drainage shall be advised to the engineer.

Legend

Surface Water	Description
	New surface water cast iron pipework
	New shallow inspection chamber
	New surface water rising main
	Cavity drain pump chamber (Designed by Specialist)

Foul	Description
	New cast iron foul water pipework
	New shallow foul inspection chamber
	New soil and vent pipe
	New stub stack
	New foul gully

Combined	Description
	New combined sewer
	New combined sewer manhole (Size indicated in Manhole Schedule)
	Existing combined sewer
	Existing combined sewer manhole

REV	COMMENTS	DATE	CHK
C5	Revisions shown clouded	15.08.19	RJ
C4	Issued for Construction	10.06.19	RJ
C3	Issued for Construction	06.06.19	RJ
C2	Issued for Construction	08.05.19	RJ
C1	Issued for Construction	26.04.19	RJ

CONSTRUCTION

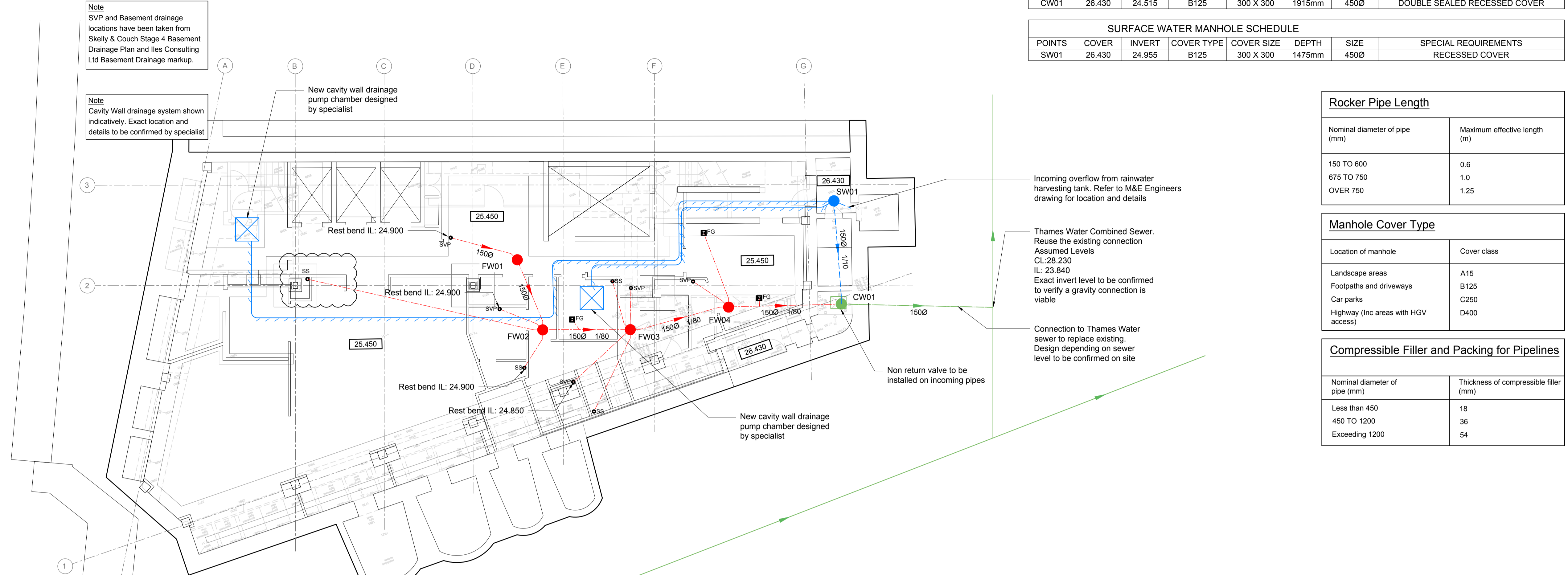
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CLIENT
BIRKBECK COLLEGE

PROJECT
CAMBRIDGE HOUSE

DRAWING TITLE
BASEMENT DRAINAGE LAYOUT

SCALE	DRAWN BY	DATE
1:100 @ A1	TRM	04.04.19
DRAWING NO.	REV	
218412-C-900	C5	



Rocker Pipe Length

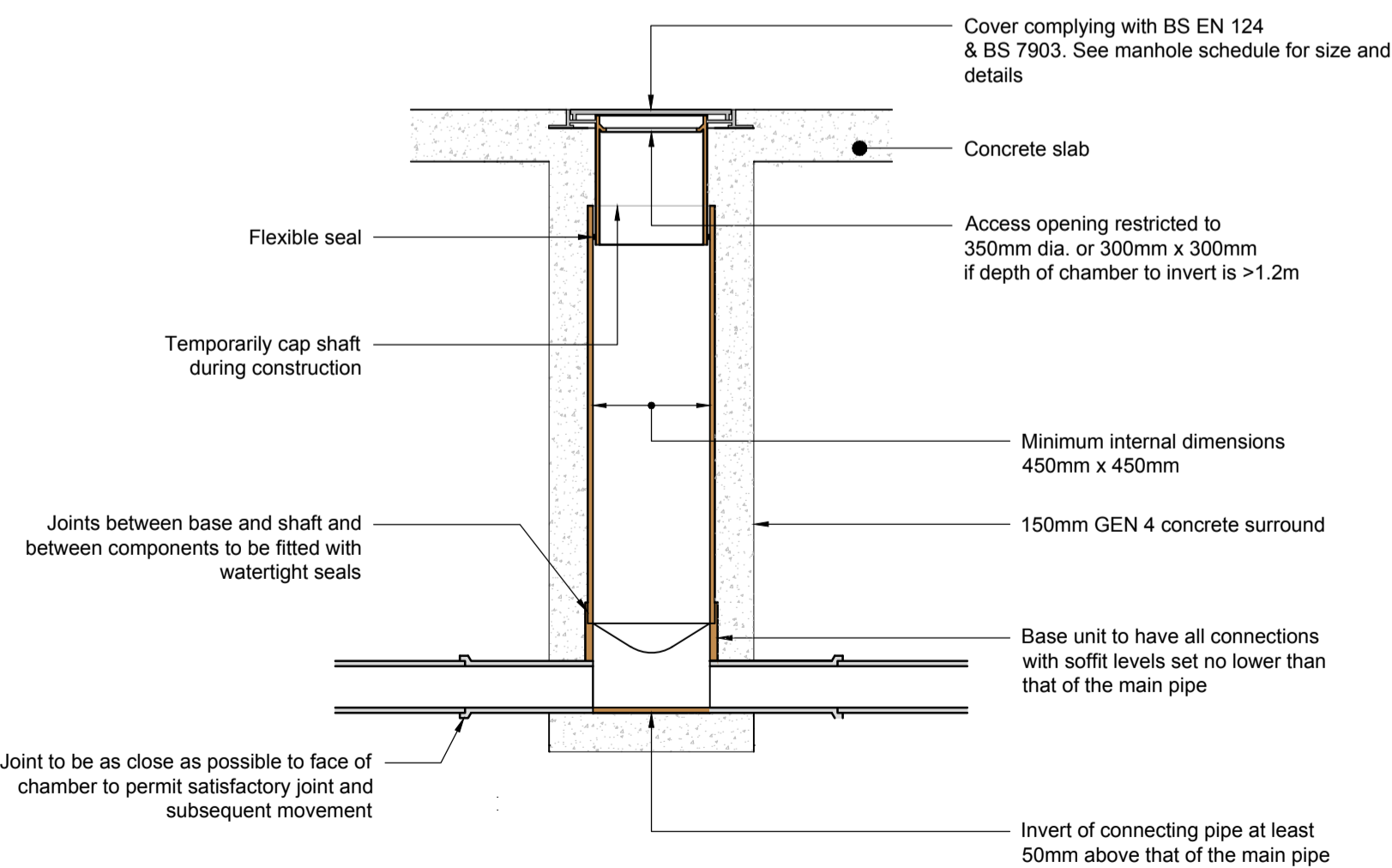
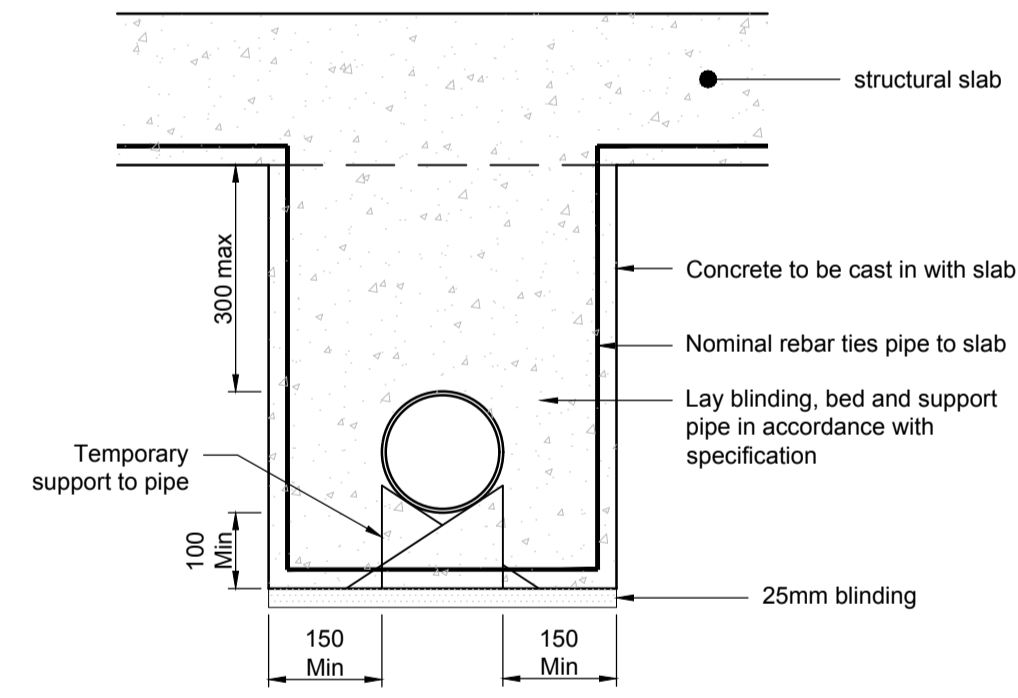
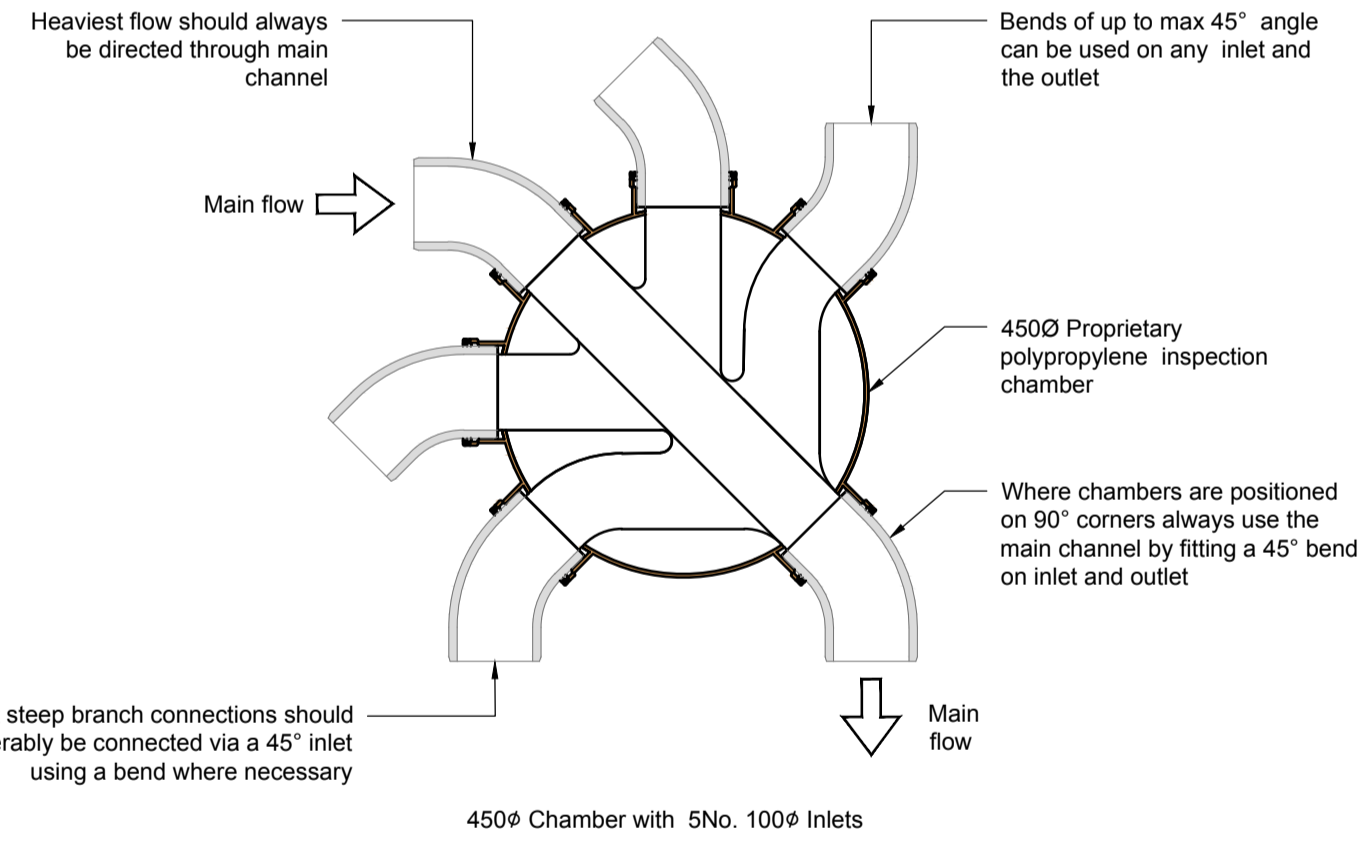
Nominal diameter of pipe (mm)	Maximum effective length (m)
150 TO 600	0.6
675 TO 750	1.0
OVER 750	1.25

Manhole Cover Type

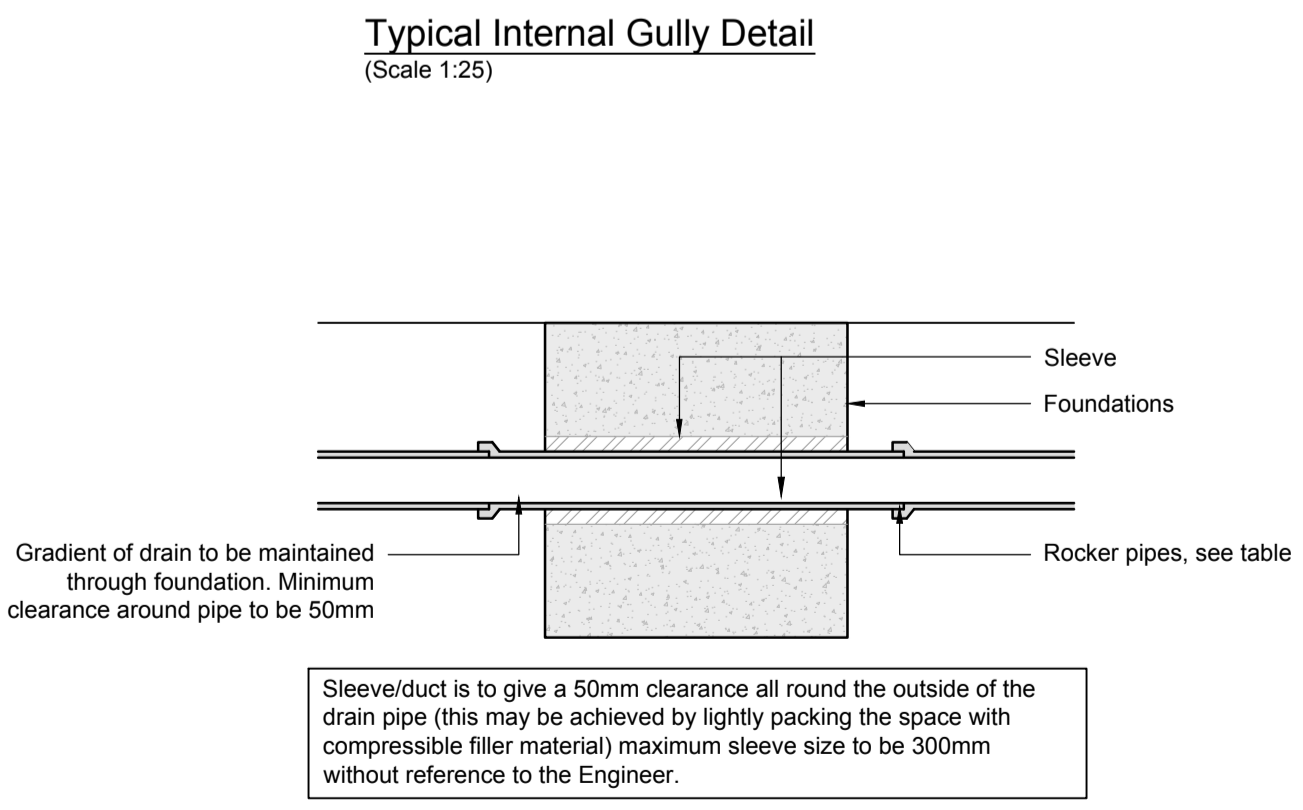
Location of manhole	Cover class
Landscape areas	A15
Footpaths and driveways	B125
Car parks	C250
Highway (inc areas with HGV access)	D400

Compressible Filler and Packing for Pipelines

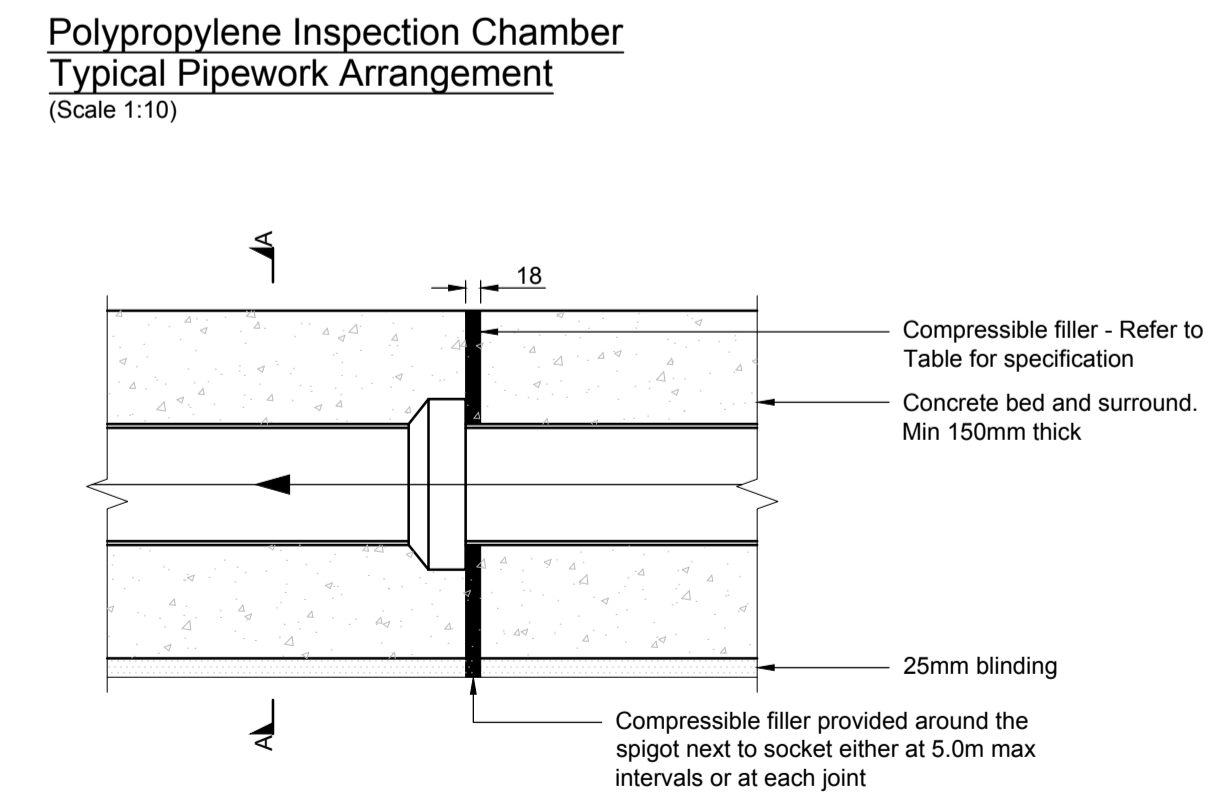
Nominal diameter of pipe (mm)	Thickness of compressible filler (mm)
Less than 450	18
450 TO 1200	36
Exceeding 1200	54



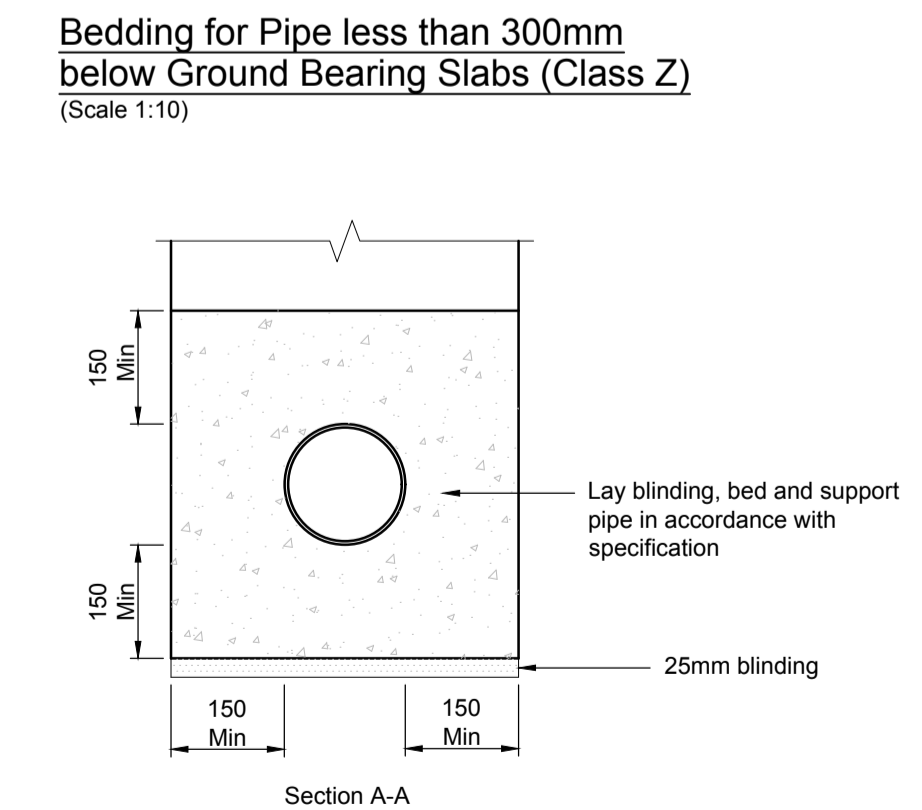
Typical Polypropylene Inspection Chamber Detail - Type 3
 Max depth from cover level to soffit of pipe 3.0m, Non-entry
 (Scale 1:25)



Drains Through Foundations
 (Scale 1:25)



Bedding for Pipe with less than 1200mm Cover (Class Z)
 (Scale 1:10)



Bedding for Pipe less than 300mm below Ground Bearing Slabs (Class Z)
 (Scale 1:10)