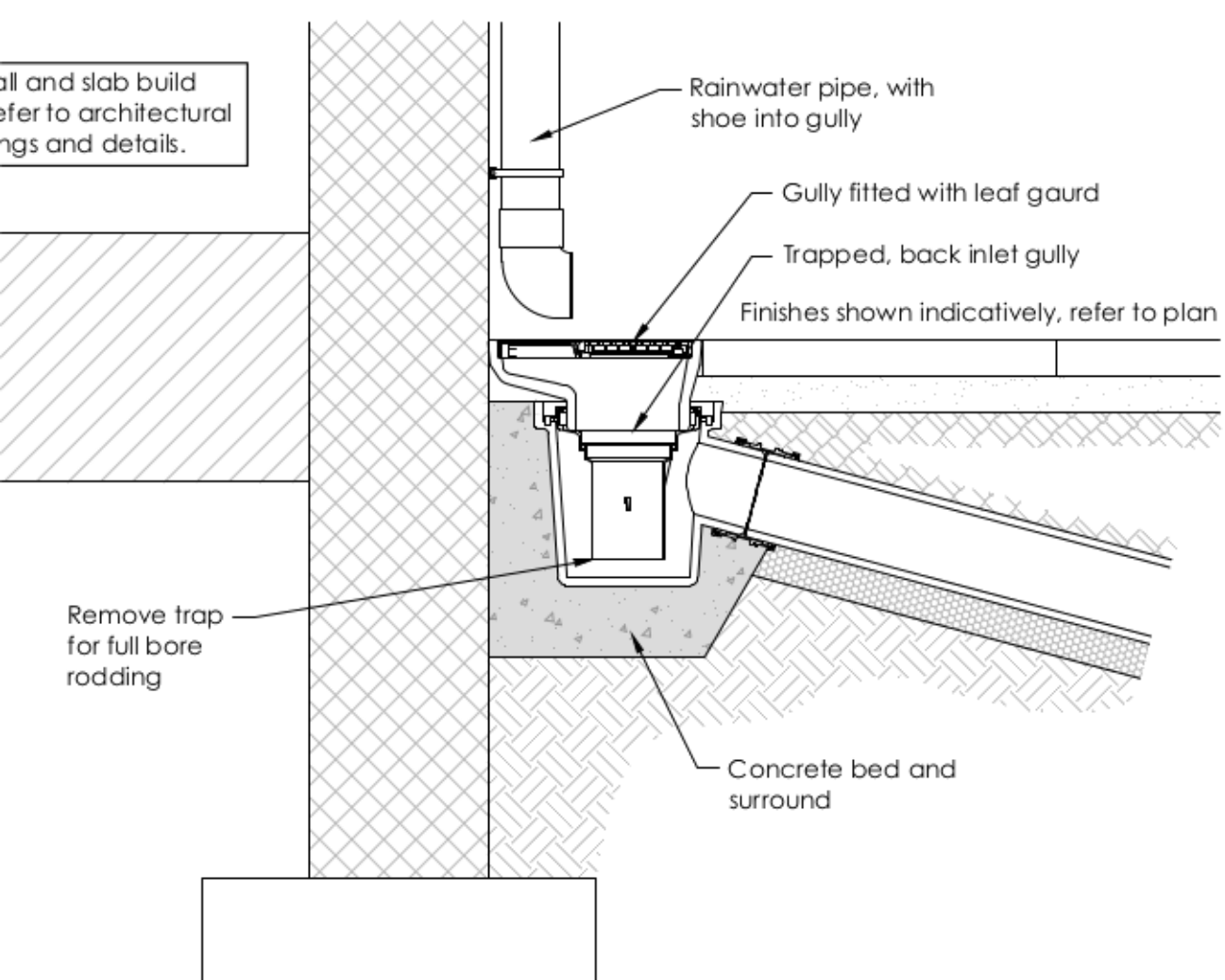
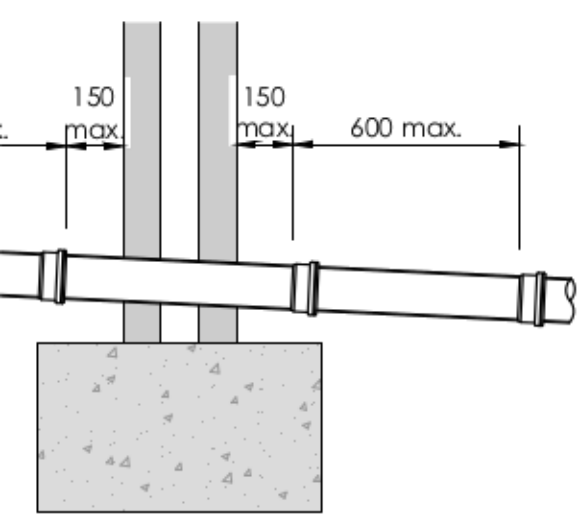


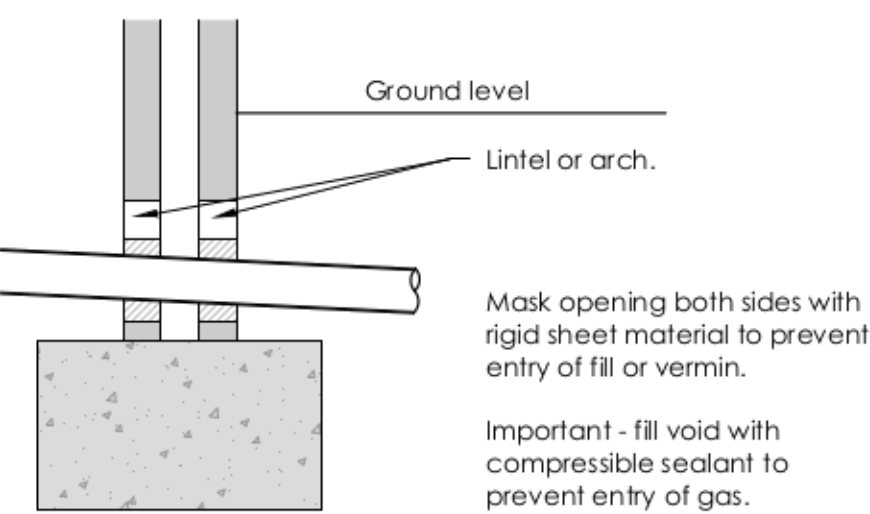
Internal Rainwater Pipe Connection Detail
(Scale 1:10)



Rainwater Pipe into Gully Detail
(Scale 1:10)

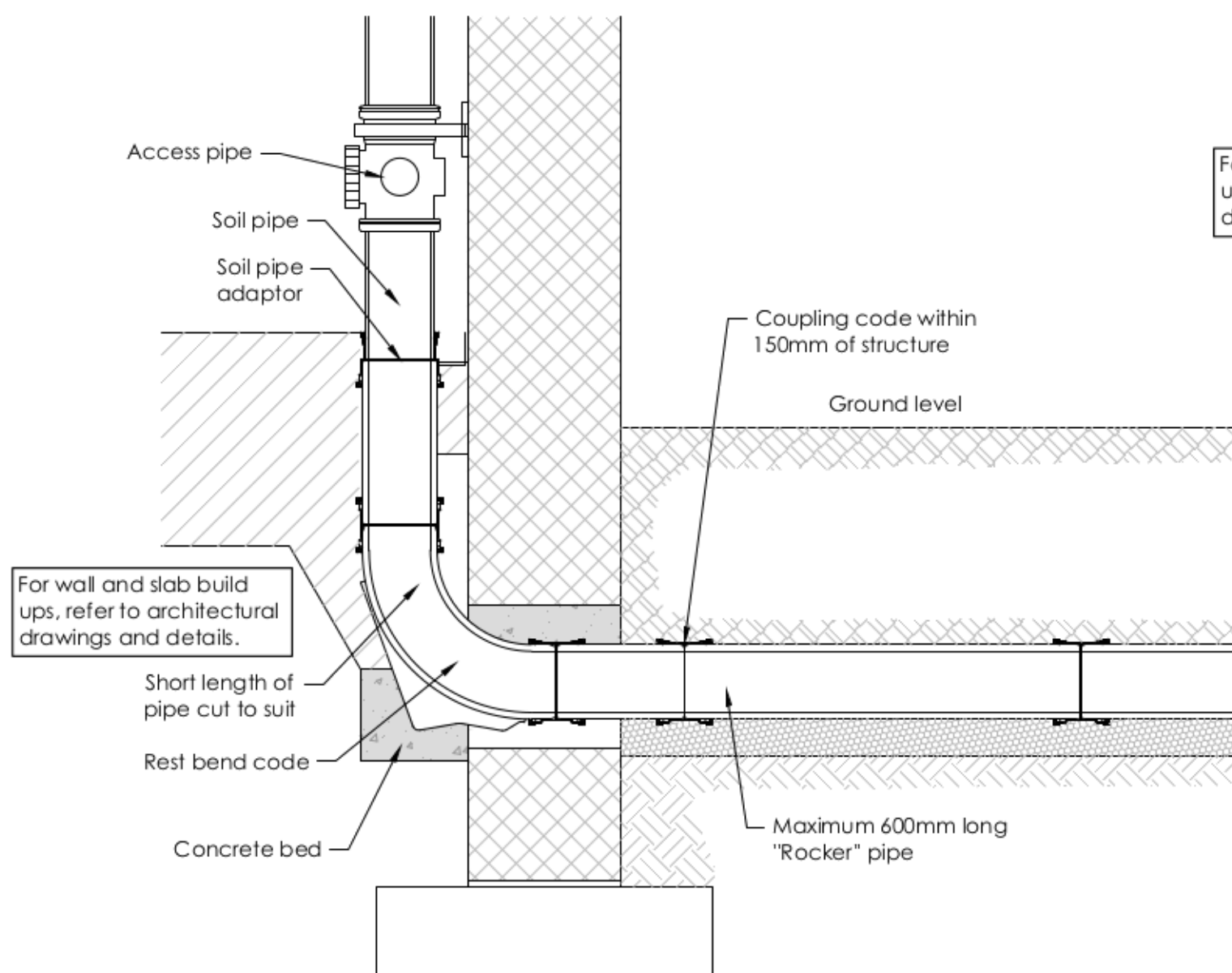


Short length of pipe bedded in wall, joints formed within 150mm of either wallface. Adjacent rocker pipes of max. length 600mm with flexible joints.

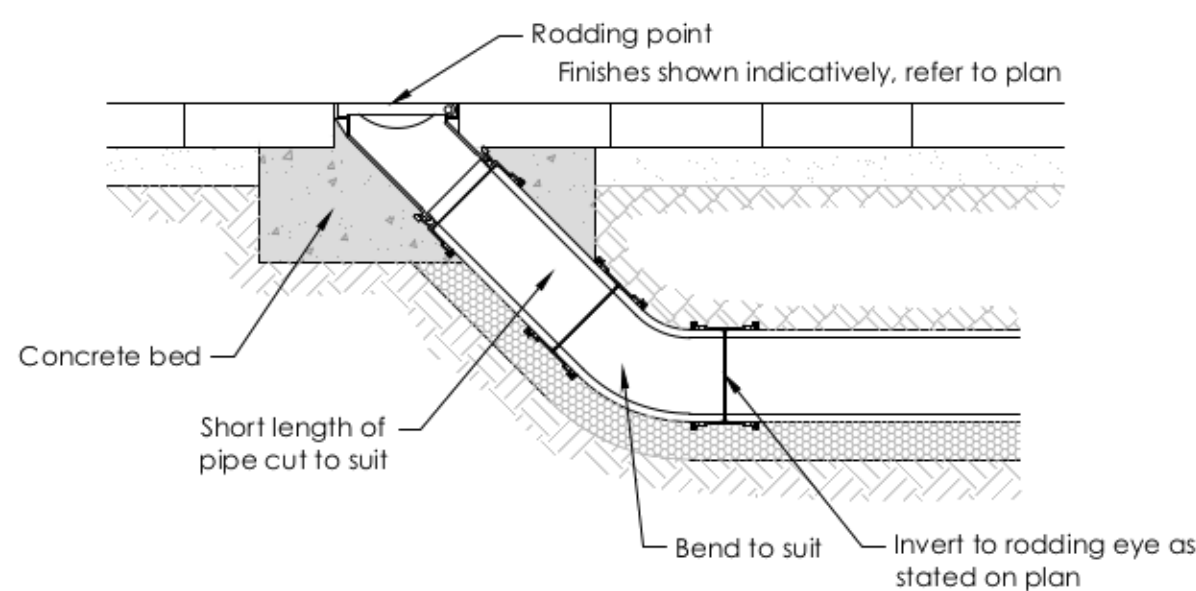


Arch or lintel opening to give 50mm space all around the pipe

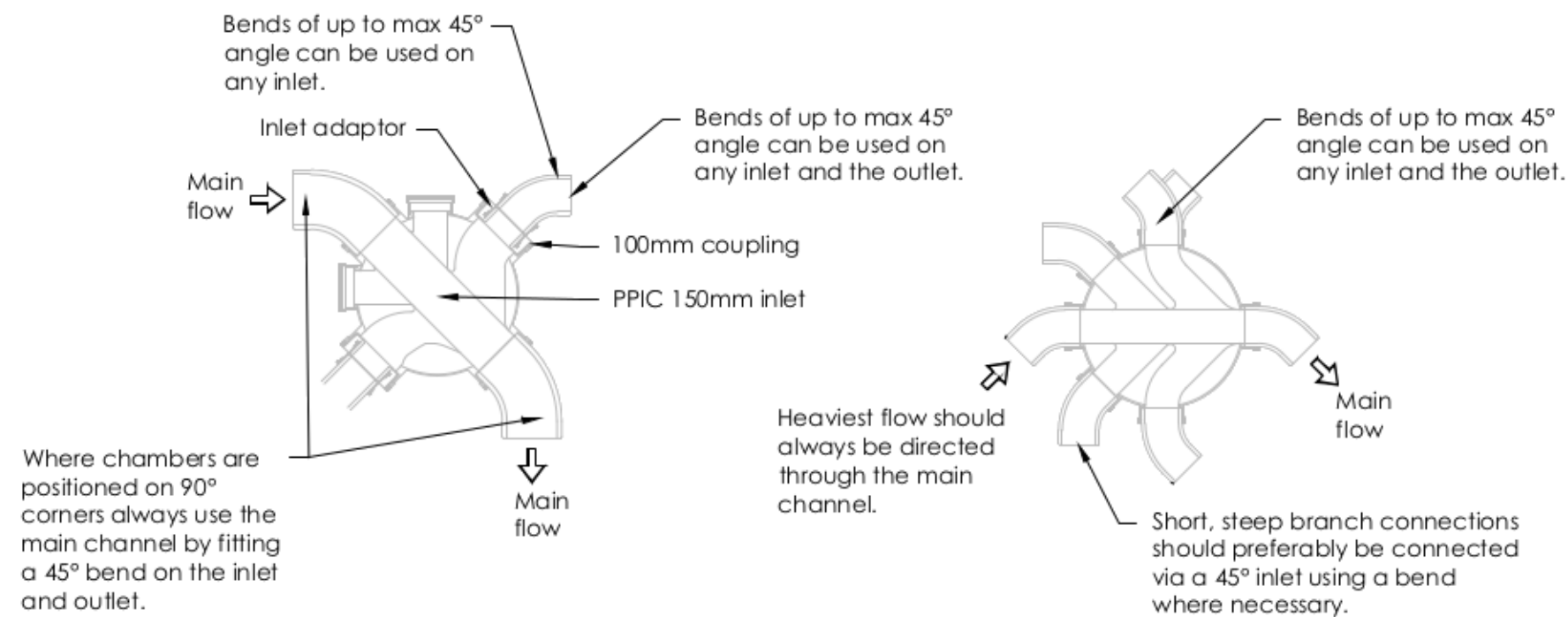
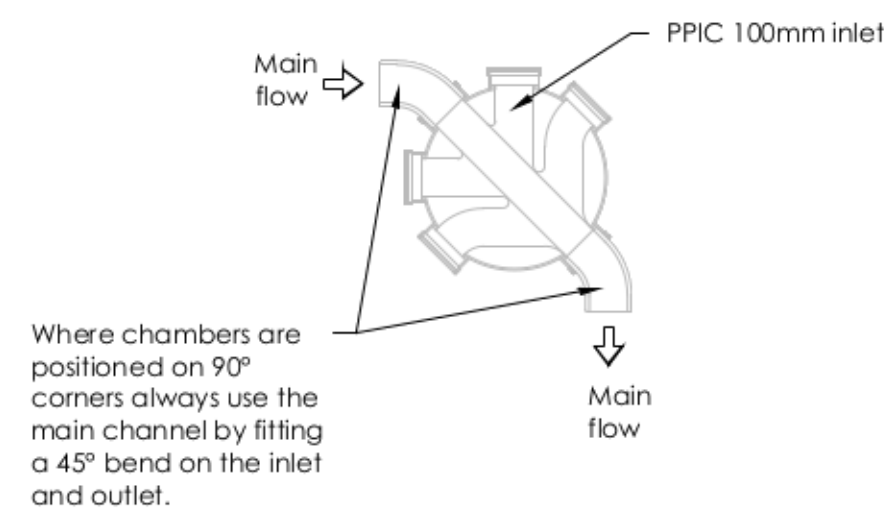
Pipes Penetrating Walls
(Scale 1:20)



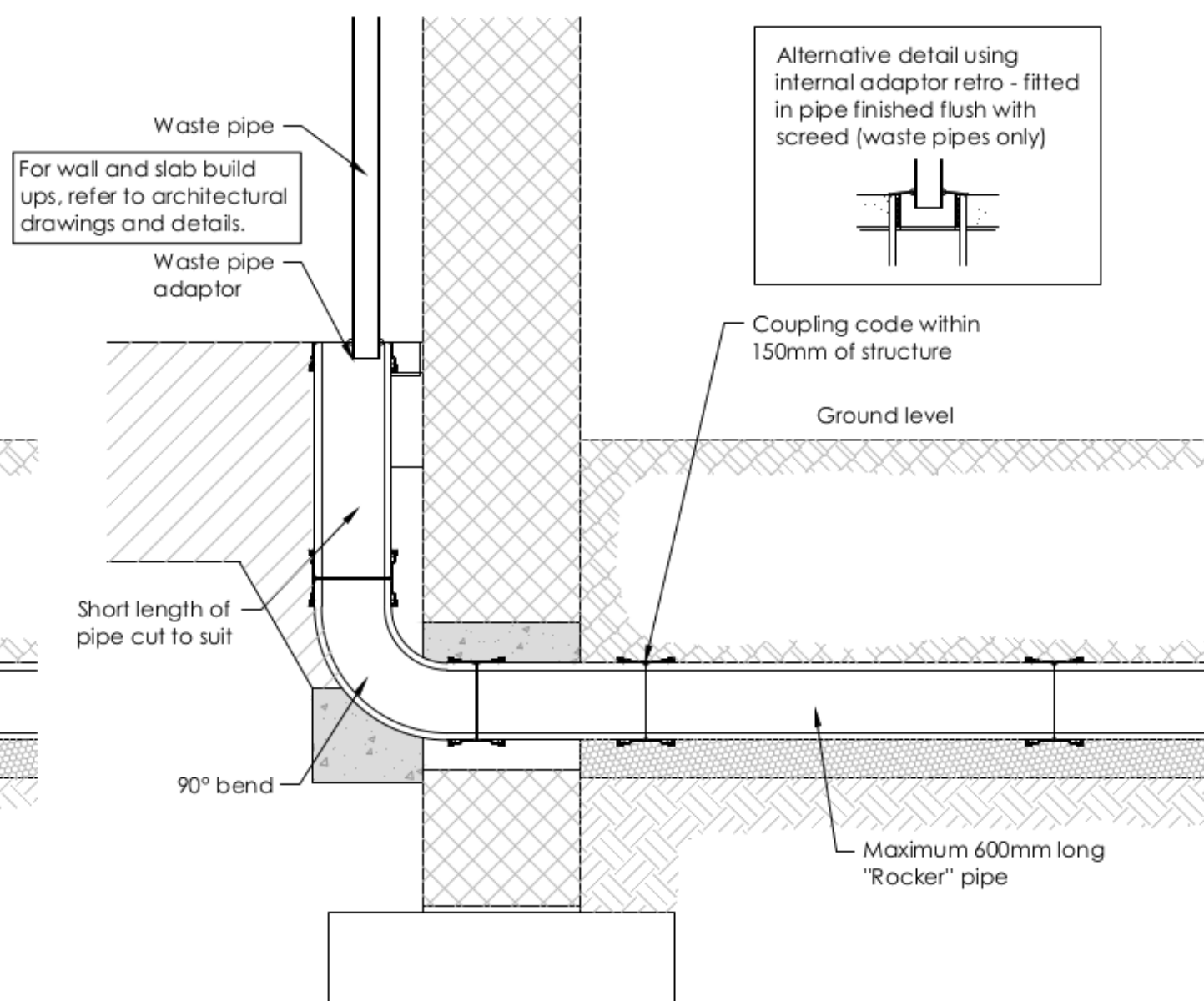
Soil & Vent Pipe/Stub Stack/W.C. Connection Detail
(Scale 1:10)



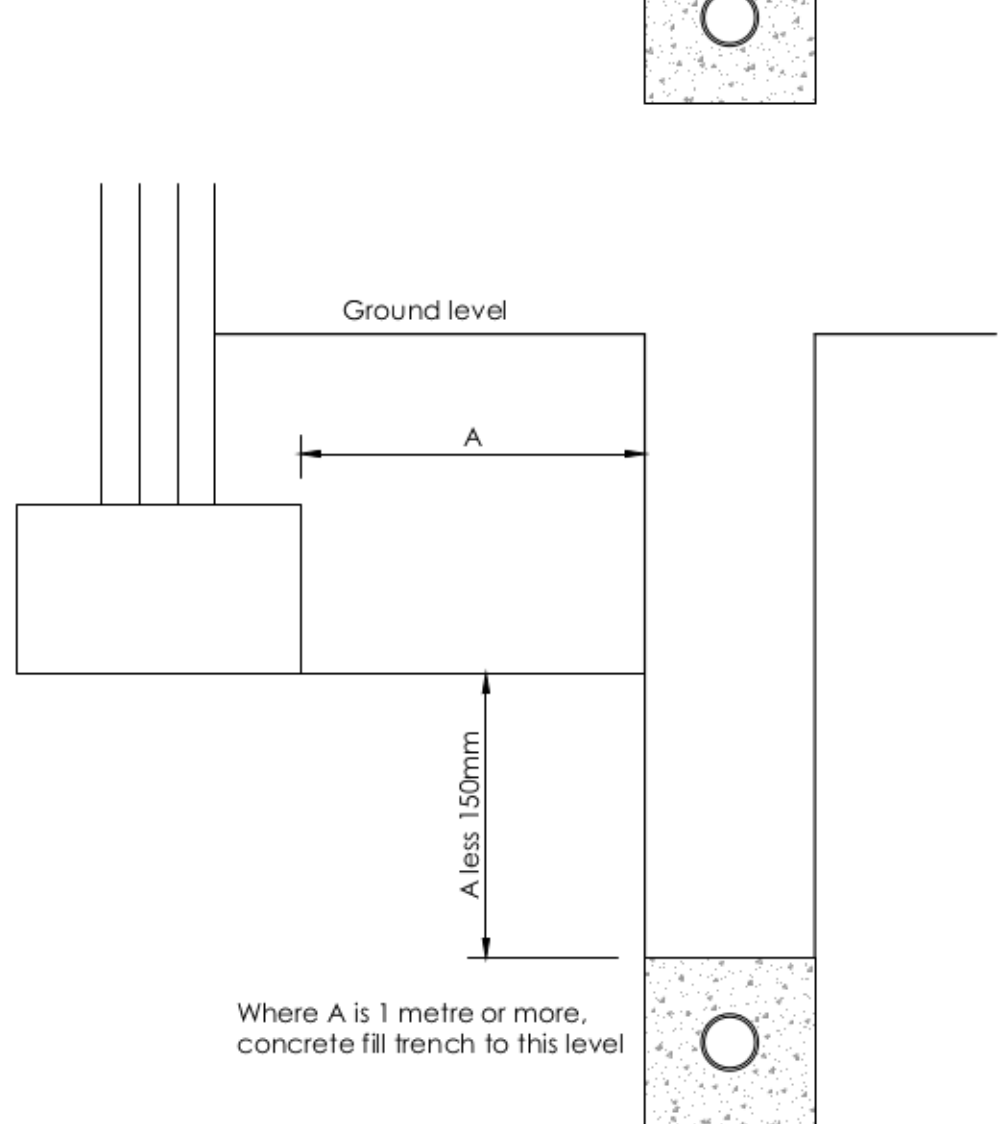
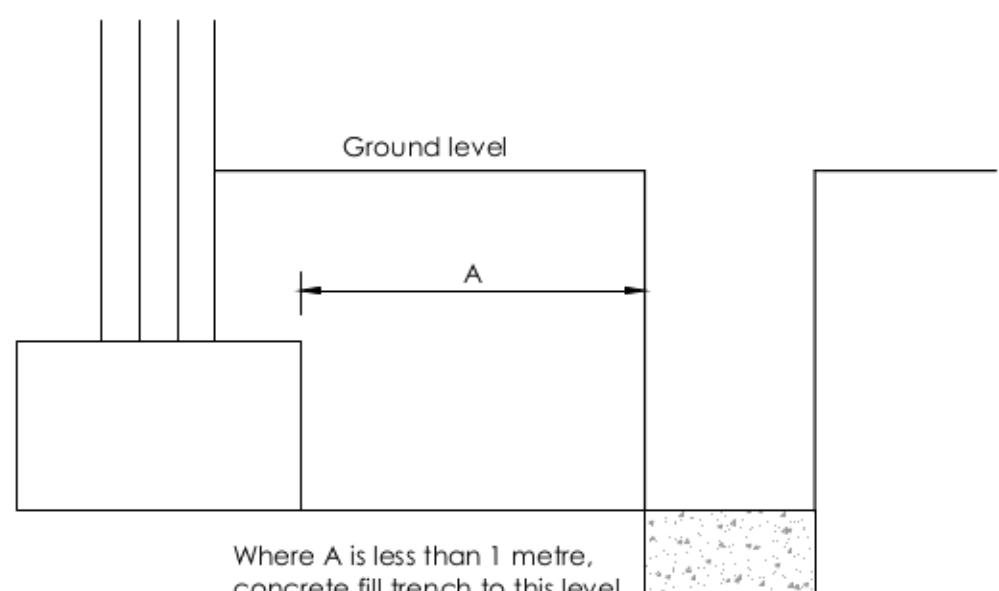
Rodding Eye Detail
(Scale 1:10)



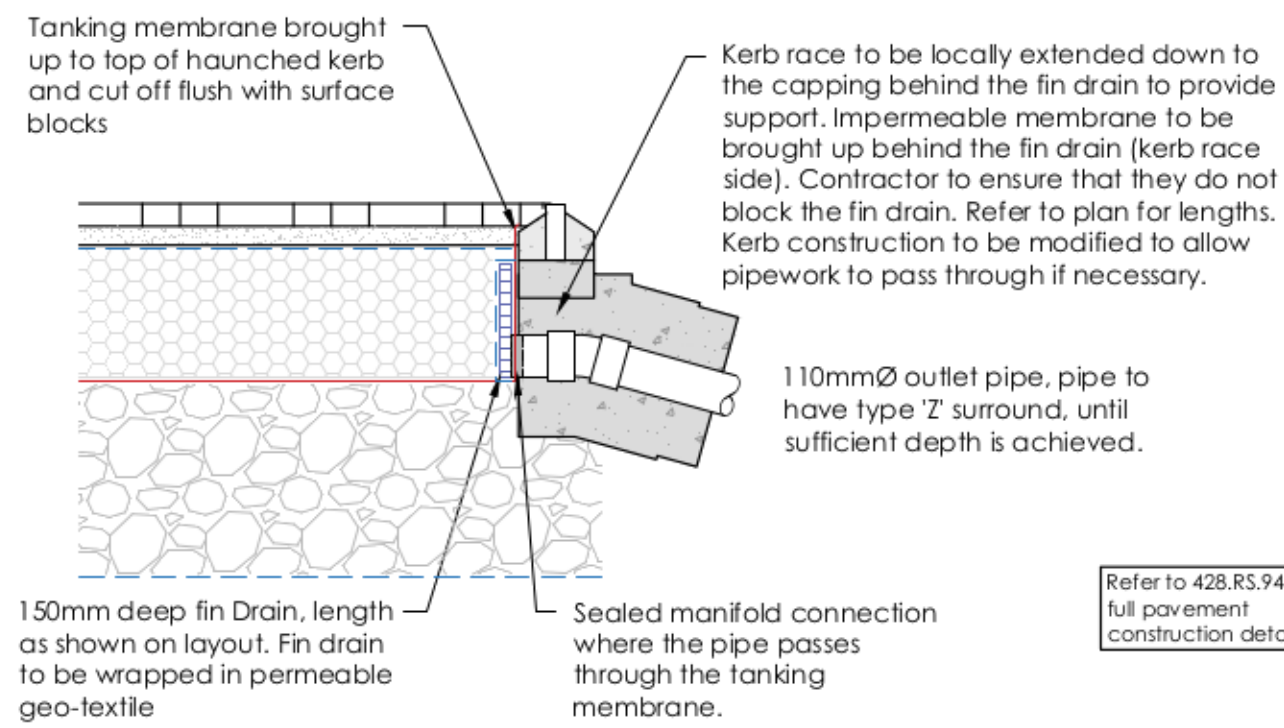
Mini Access Chamber/PPIC Layout Arrangement
(Scale 1:20)



Internal Waste Pipe Connection Detail
(Scale 1:10)



Pipe Runs Near Foundations
(Scale 1:20)

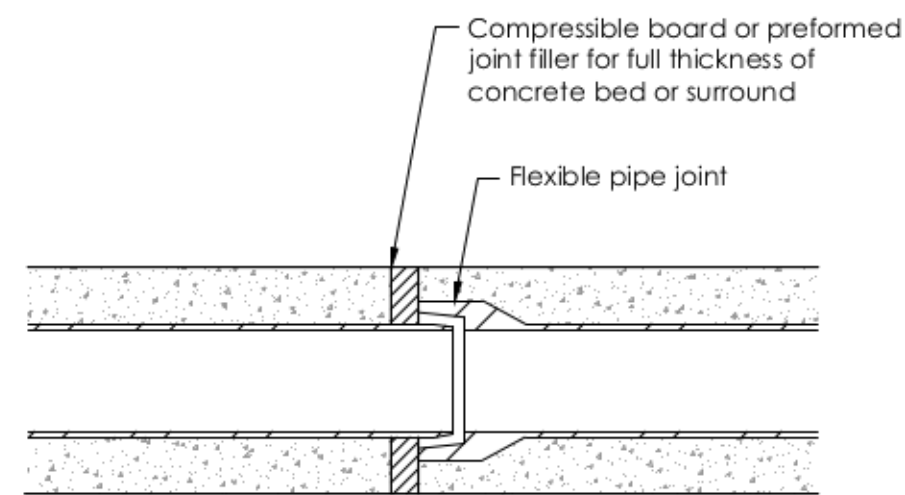
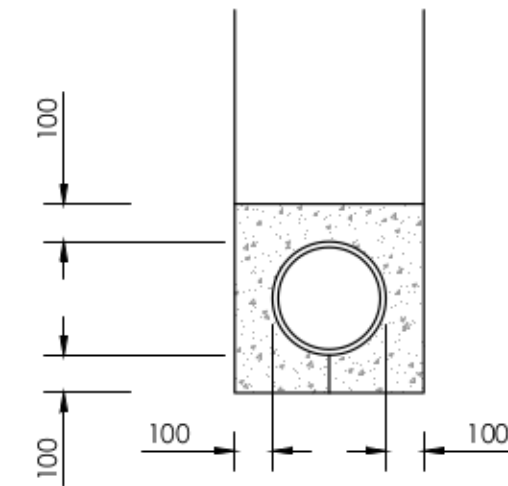


Typical Fin Drain Outlet Detail
(Scale 1:20)

Where pipes are required to pass through foundations the structural engineer is to advise on a detail to suit the foundation requirements

Note:

Where it is necessary to backfill the trench with concrete in order to protect nearby foundations movement joints formed with compressible board should be provided at each socket or sleeve joint face



Joints for concrete encased pipes
(Scale 1:20)

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

The copyright to this drawing is owned by studio 11 architecture.

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.

Notes:

- All drawings to be read in conjunction with Structural Engineers Drawings.
- All plans are drawn in meters unless noted otherwise.
- All setting out in accordance with the Architectural plans.
- Drainage design in accordance with Sewers for Adoption 6th edition.
- Road design in accordance with Lincolnshire County Council - Development Road and Sustainable Drainage Specification and 'Construction', and any specific requirements of the approving highway officer.
- Estate road materials to be in accordance with Lincolnshire County Council specifications.
- All manholes located in the adoptable highways to have a minimum cover grades of D400, be 150mm thick and to be marked FW and SW to denote foul water and surface water, respectively.
- It is proposed that all laterals from plots are to be adopted.
- Final connection point levels and locations need to be confirmed prior to commencement of construction.
- All proprietary items to be installed in strict accordance with the manufacturers instructions and recommendations.
- All works to be carried out in accordance with the current British Standards, Codes for practice and Building Regulations.
- Manholes and coordinates are given to the centre of manholes. Groundworker to ensure offsets allow minimum benching requirements and offsets from kerbs.
- Generally the first inspection chamber located in the private areas is a demarcation chamber for the AW adoptable lateral. Cover grades to be:
 - D400 - adoptable areas and the main access way.
 - C250 - shared parking areas
 - B125 - private domestic car parking (single dwelling)
 - A15 - soft landscaped and non-vehicle areas
- All drawings need to be read in conjunction with each other, any discrepancies must be reported back to the engineer immediately.
- Any adoptable sewer pipes with less than 1.2m of cover to the top of pipe in the adopted carriageway, less than 1.2m under adopted vehicular crossovers are to receive a concrete cover slab. Where there is very little cover, the pipe is to be ductile iron - refer to long sections for material type. Concrete cover to be confirmed on site.
- Outside of manhole construction and outside of pipelines to be at least 0.3m and 1.0m respectively, from the kerb face. Sewers might need to be offset in the manholes to achieve - to be confirmed on site.
- All details are to be read in conjunction with Anglian Water's standard adoptable drainage details - available from Anglian Water upon request.
- Contractor to ensure that all items are sufficiently protected during construction.
- Cover levels are approximate only, and should be adjusted to suit the final road levels.
- All drawings must be approved & agreed by the planners/building control prior to construction.
- Drainage from below buildings are to either pass under/through/over foundations. Structural engineer to advise on requirements and sleeve setting out in all instances.
- Below slab drainage which passes over foundations are to either bend down or utilise a backdrop into the PPIC/IC/PCC.
- Below ground drainage from RWP's are to be 100Ø laid no flatter than 1 in 100.
- All above ground drainage (RWPs, SVP's, SS's, Floor Connections, etc.) to have rodding access.
- Drainage to be in accordance with building regulations part H.
- Drainage generally designed to incorporate a side step down into the main channel invert of PPIC's of 100mm. Details vary dependant on the preformed base and manufacturer selected.
- All RWP's and below ground foul drainage to be set out by the Architect.
- All PPIC's deeper than 1.2m are to be fitted with non-access covers, in accordance with building regulations.
- For Private drainage drainage, the pipework needs concrete pipe protection if the following depths to soffit cannot be achieved (see detail sheet 3200):
 - For PVC - 0.9m in vehicular areas or 0.6m in soft landscaping.
 - For clayware or concrete - 1.2m in vehicular areas or 0.6m in soft landscaping.
- NB. Refer to building regulations part H for further guidance.
- Foul drain/sewer gradients to have a minimum of 100Ø @ 1:80 if a WC is connected or 100Ø @ 1:40 if not. Pipes can be 150Ø @ 1:150 if 5 or more WC's are connected to it.
- Stated gradients are minimum, and might actually be steeper.

REVISION	DATE	DRAWN	DESCRIPTION
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CLIENT	Seagate Homes Ltd		
PROJECT	Residential development of Station Road, Surfleet		
DRAWING	Drainage Details - Private (Supplementary)		
DRAWN S11	PROJECT DESIGNER JMG	PROJECT DIRECTOR KB	
DATE Dec' 19	SCALE As Shown	PAPER SIZE A1	
DRAWING NUMBER	428.RS.826		
Working in partnership with Ralph Charman Associates & Beven Consultants			