

- DO NOT SCALE -

Notes

- All works to be carried out in accordance with:
 - Design and Construction Guidance (DCG) and Sewerage Sector Guidance (SSG) for all sewers proposed to be offered for adoption. (note - the SSG replaces Sewers for Adoption (SfA) for all new developments)
 - BS EN 752 - 'Drain and Sewer Systems Outside Buildings'
 - Current applicable Building Regulations
 - BGP Specifications
 - Manufacturer installation guidance and requirements
- For clauses refer to Design and Construction Guidance (DCG) and Sewerage Sector Guidance (SSG) for all sewers proposed to be offered for adoption. (note - the SSG replaces Sewers for Adoption (SfA) for all new developments)
- The developer should take all necessary precautions to avoid causing any damage to, or interference with flow in existing sewers and shall ensure that debris, silt, mud etc. do not enter the sewer.
- Where works are to be carried out on sewers, the contractor must carry out their works in accordance with "The classification and management of confined spaces" published by Water UK. they must also comply with all other relevant health and safety legislation/ documentation.
- All materials are to be stored in such a manner as to preserve their quality as to the standard specified in the specification.
- All concrete to be produced on site must be mixed with only potable water, to ensure that it is clean from dirt and contaminants.
- Aggregates for concretes shall comply with the relevant provisions of BS EN 12620 and PD 6682-1.
- Sands for mortar and grouts shall be washed sand, complying with BS EN 13139 and PD 6682-3. All other sands are to comply with BS EN 12620 and PD 6682-1 or BS EN 13139 and PD 6682-3.
- Pulverised-fuel ash (PFA) for use as a component material in ementitious grout our non structural concrete shall comply with BS 3892-2 & 3.
- Virtilfed clay pipes and fittings for sewers shall have flexible mechanical joints. Pipes for foul sewers and surface water sewers shall comply with the relevant requirements of BS EN295 and BS65 (Surface water pipes only).
- Pre-cast concrete manhole units of circular cross section for manholes, chambers and wet wells shall comply with the relevant provisions of BS EN 1917 and BS 5911-3.
- Ladders for manholes in a vertical plane are to be mild steel and comply with BS4211, Class A and PD 970.
- GRP ladders shall be manufactured in accordance with BS EN 131, and from glass-reinforced polyester using an appropriate resin for the ladder location. Unidirection reinforcement shall be provided in the GRP matrix to maximise strength.
- Manhole covers and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and DMRB guidance document CD 534. They shall be of a non-rocking design which do not rely on the use of cushion inserts.
- Clay bricks to be used within manholes are to be solid, Class B Engineering bricks complying to BS 3921.
- All bricks shall be frost resistant category F.
- Standard concrete mixes should be in accordance with BS EN 206-1 and BS 8500 and shall be used with a 20mm nominal maximum size of aggregate and a slump class of S2 for a target of 70mm.
- GEN1 concrete to be used for; fillings, blindings, soft spots and drainage slumps. GEN3 concrete to be used for; all other applications. U.N.O.
- Admixtures (including calcium chloride and pigments) shall not be used in the production of concrete.
- High strength concrete topping shall be produced, laid and finished in accordance with the relevant provisions of BS 8204: part 2 and the following approximate mix proportions shall be used: 1part cement, 1part natural sand and 2parts single-sized coarse aggregate.
- All mortar mixes shall be in accordance with BS 5628-1:2005.
- All pipes to be either extra strength VC to BS 65 or PVC to BS 4660 or BS 5481 "UPONOR ULTRARIB" or Concrete pipes to class 120. The contractor should use the same material and manufacturer throughout (where feasible).

Preliminary Stage 5 Issue	GL	C02	JD	06.05.2026
Stage 4 Issue	GL	C01	JD	24.10.2025
AMENDMENT	BY	REV	CHK	DATE



Billingshurst George & Partners

CIVIL & STRUCTURAL ENGINEERS | BUILDING SURVEYORS

@BGPconsulting www.bgp-consulting.co.uk

Teesside 01642 876470 Tyneside 0191 495 4100

Client Cumberland Council
Project CMiQ Phase 2 LUF - Unit 9 & 12

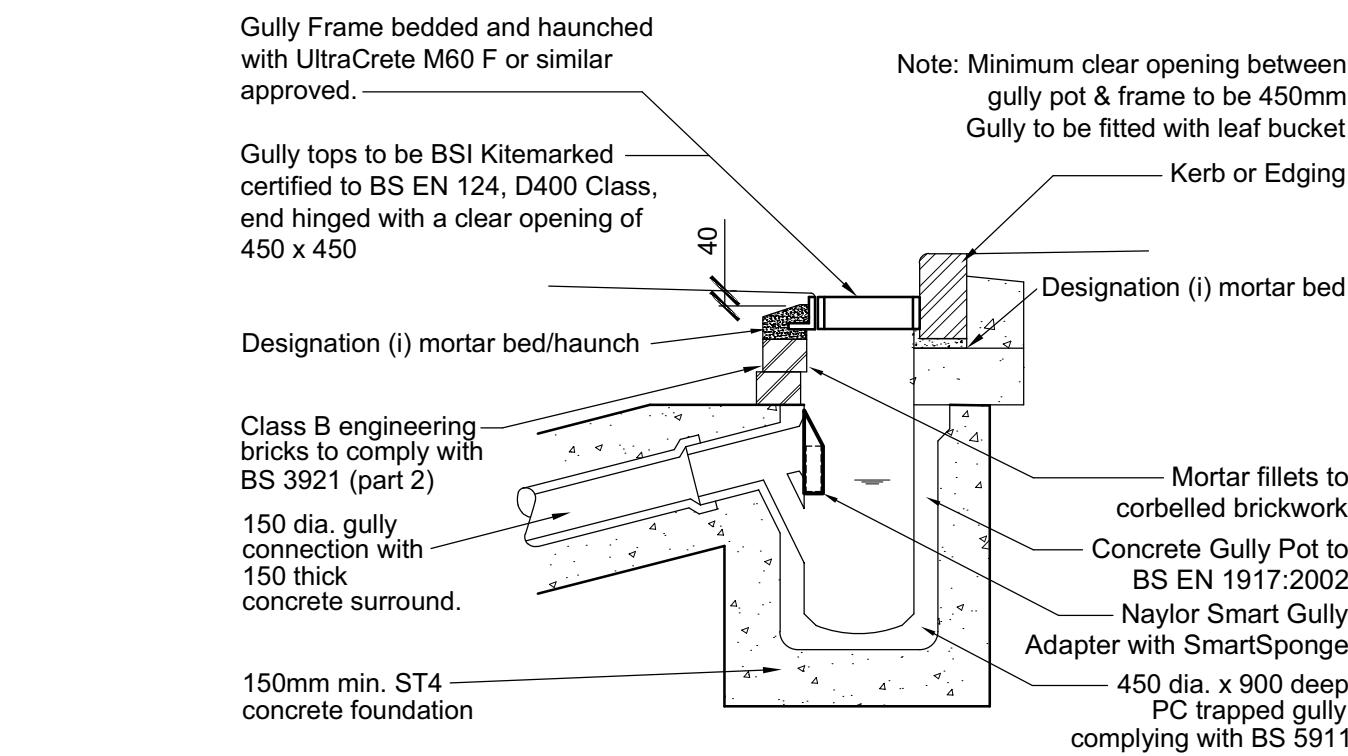
BGP Project No. 21T2034

Drawing Title Drainage Details - Sheet 2

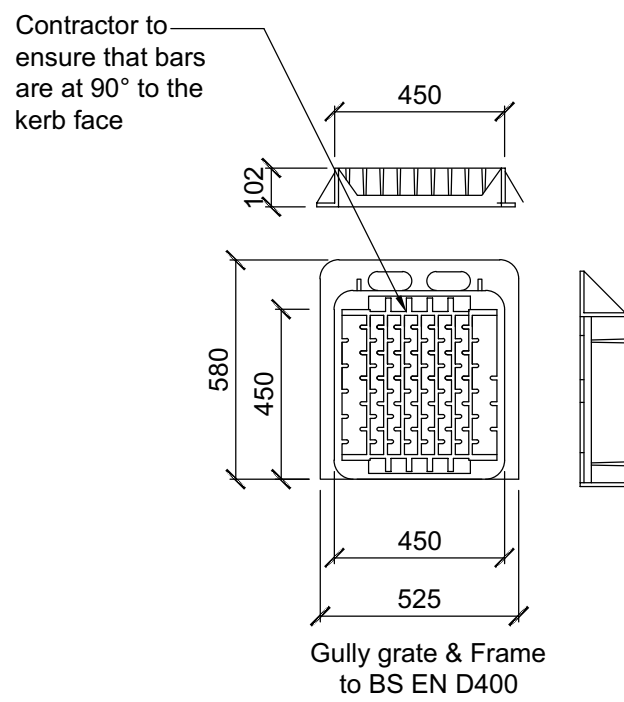
Drawn	Date	Checked	Date	Size	Scale	Rev.
GL	Oct '25	JJH	Oct '25	A1	Noted	C02
Location	Originator	Volume	Level	Form	Role	Unique No.
LUF	BGP	09	XX	D	C	09136

File Reference
LUF-BGP-09-XX-D-C-09136

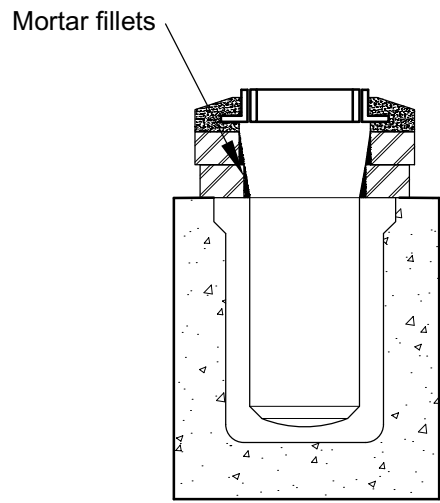
In instances where this drawing completes or partly completes a contract, Billingshurst George & Partners will consider that it's product has been validated, unless in a period not exceeding 90 working days, the client advises to the contrary.



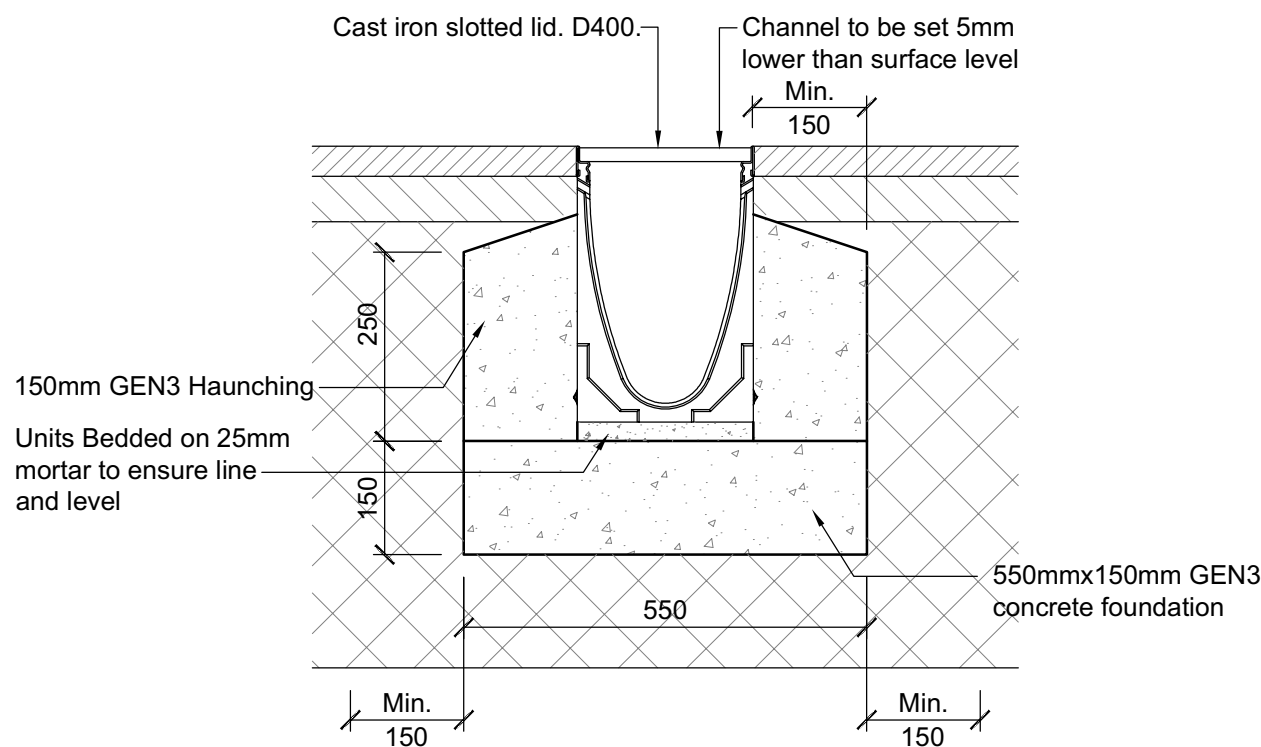
Naylor Concrete Smart Gully Detail (G)
NTS



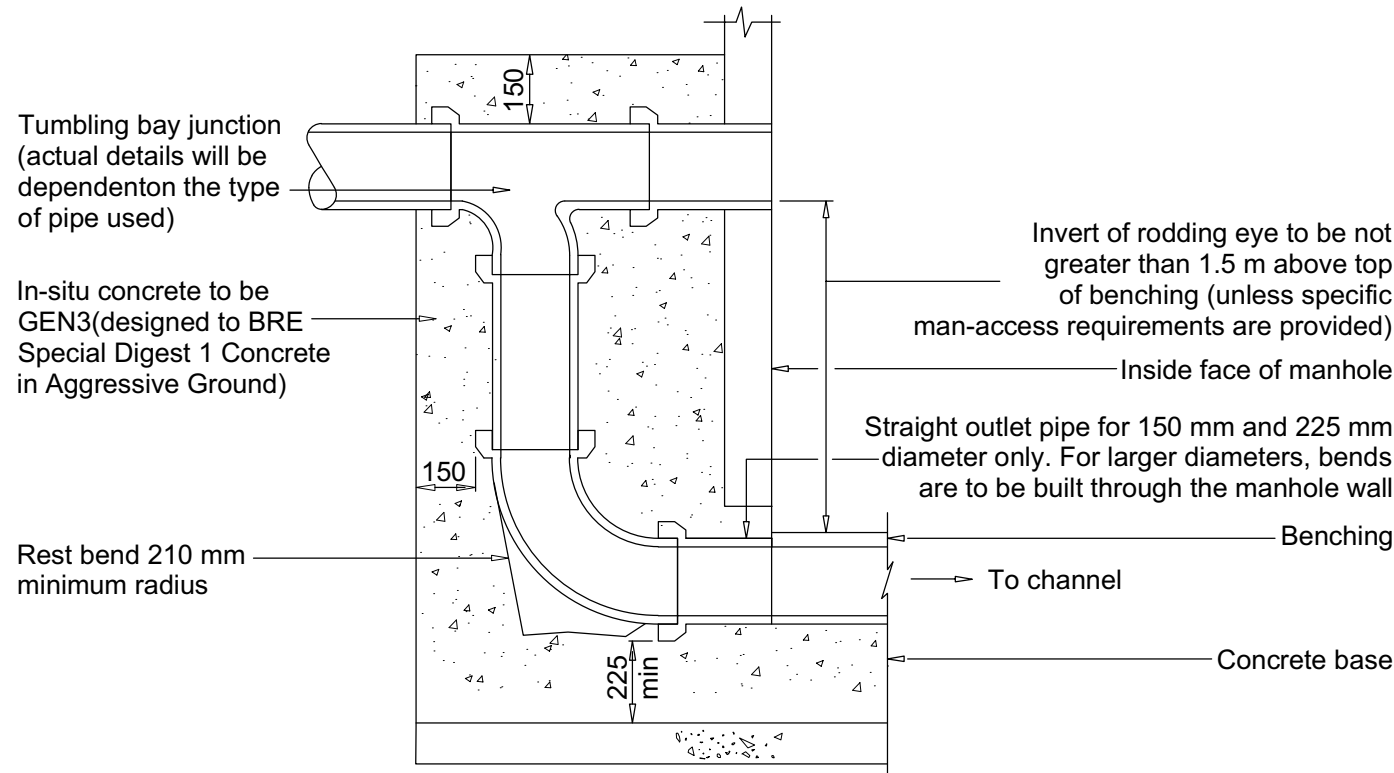
Road Gully Grating
(For Highways Adoption)
NTS



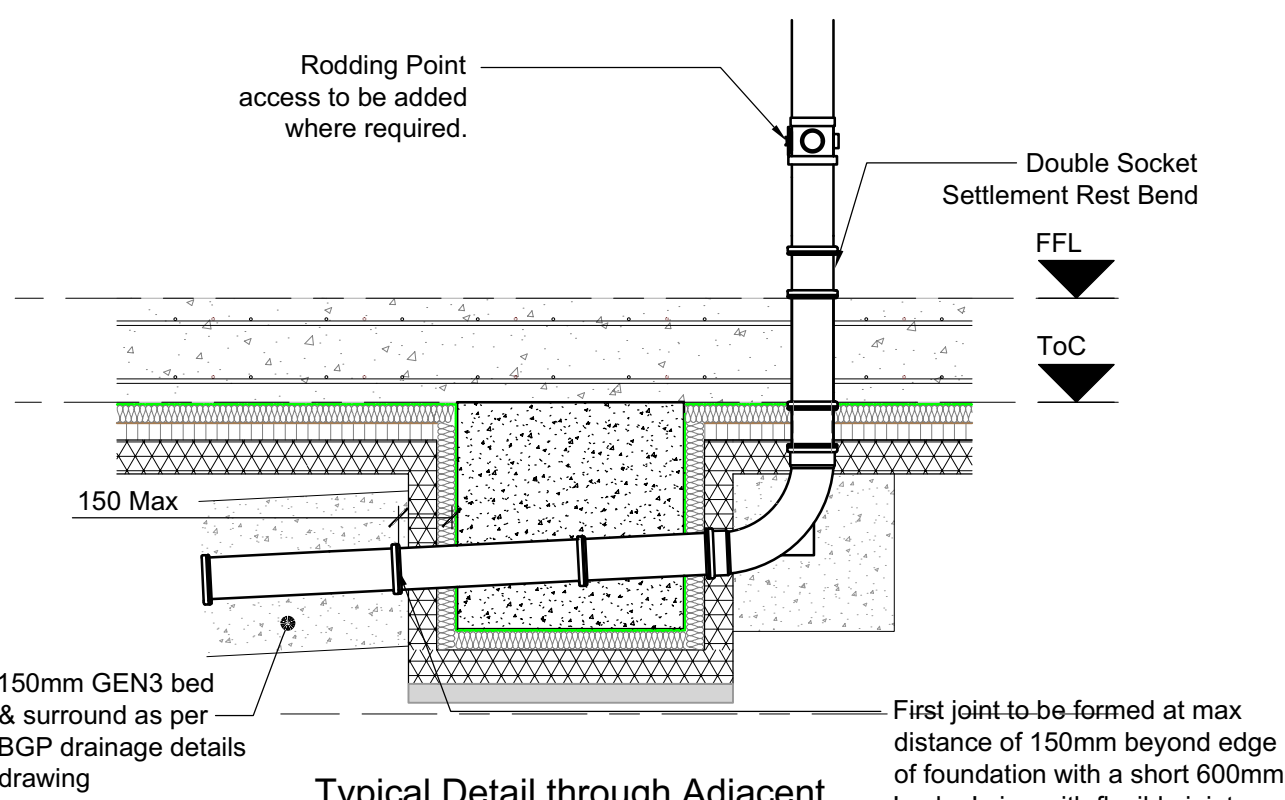
View on A - A
NTS



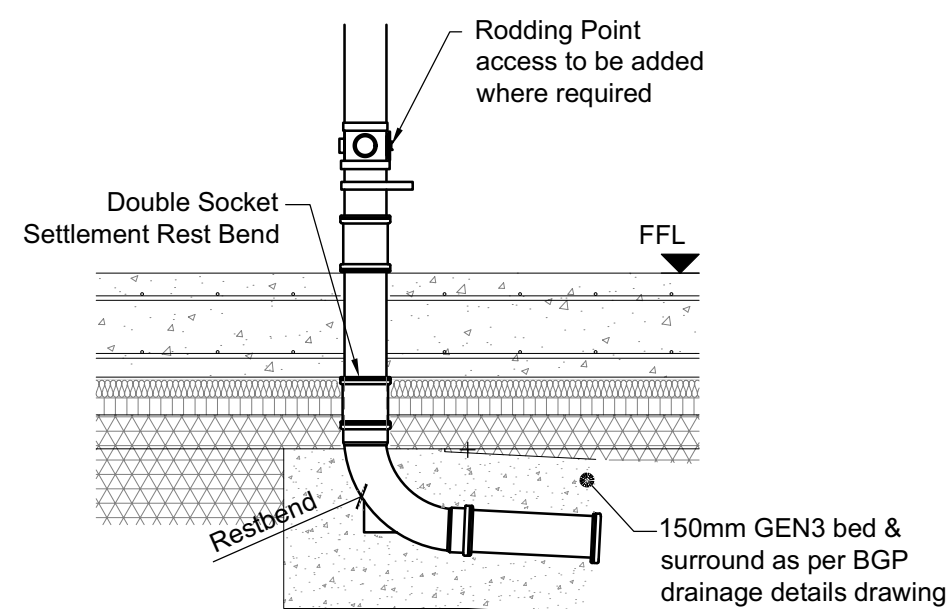
Typical ACO MultiDrain MD with M200D 0.0 Channel
(or similar approved)
Scale 1:10



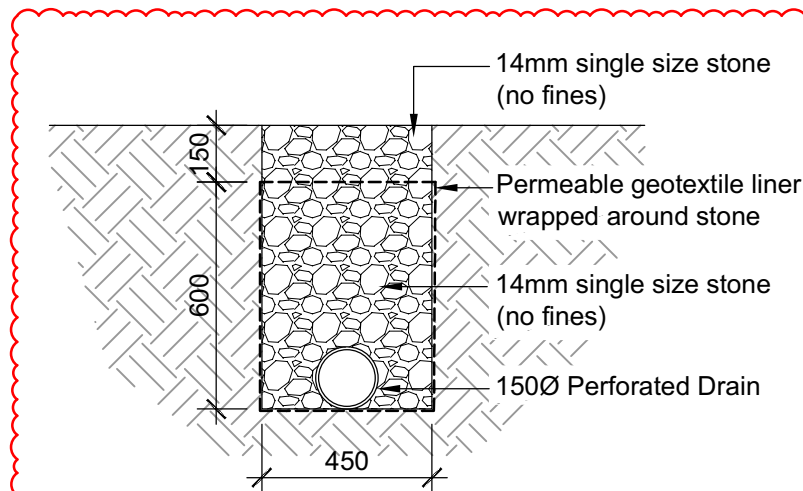
Typical Vertical Backdrop Detail
NTS



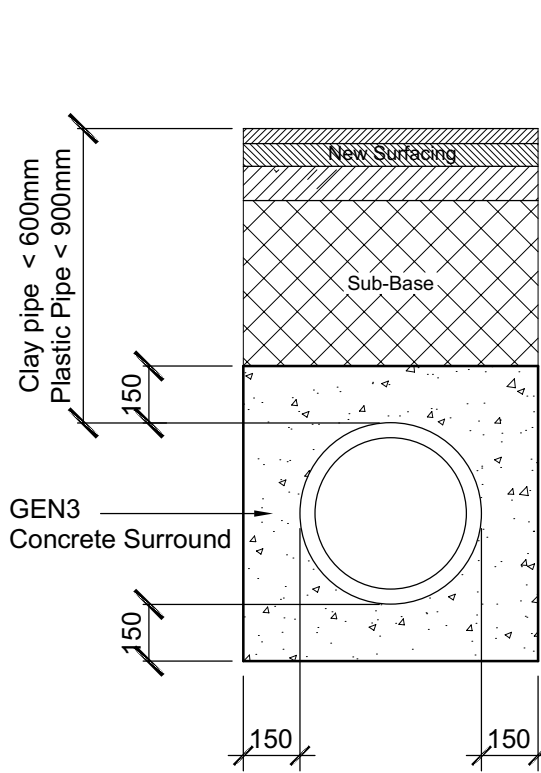
Typical Detail through Adjacent
Internal Ground Beam Pop-Up (PU)
NTS



Typical Detail through Internal
Pop-Up (PU)
NTS

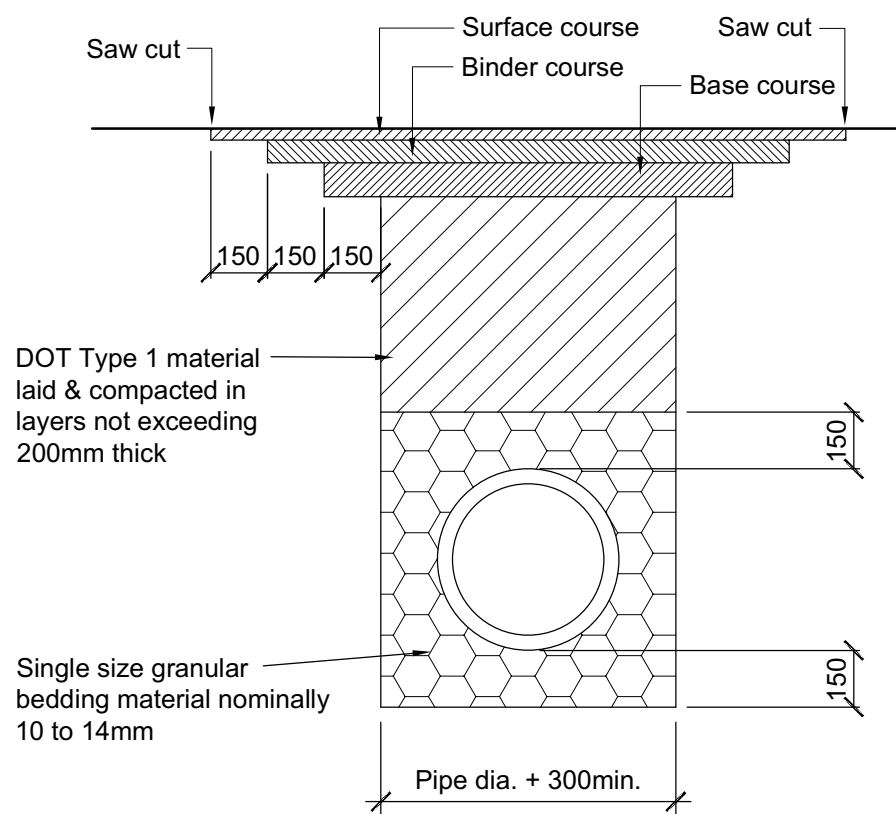


Typical Section Through Filter Drain

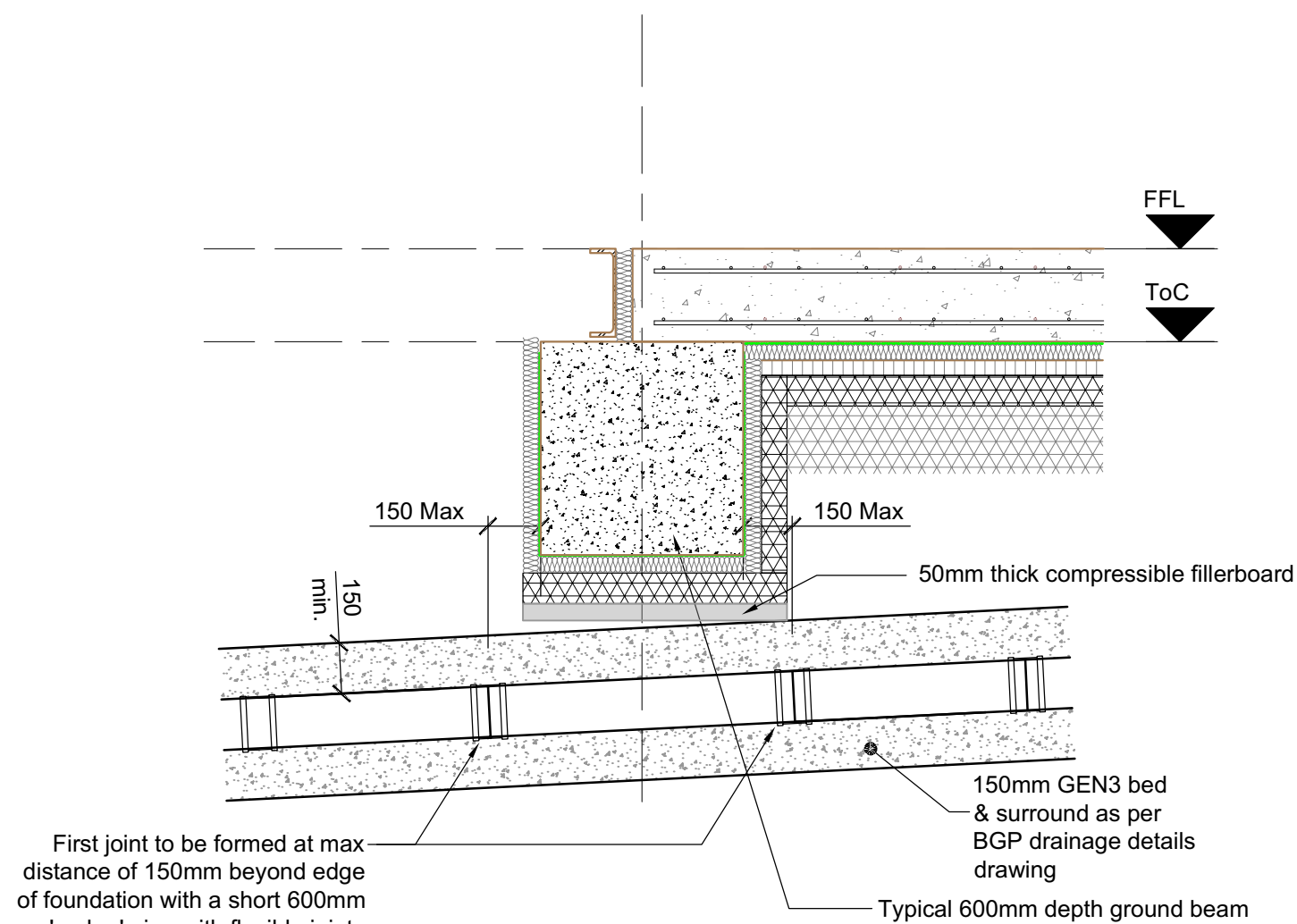


Concrete Surround Detail
(Hardstanding areas & beneath building slab)

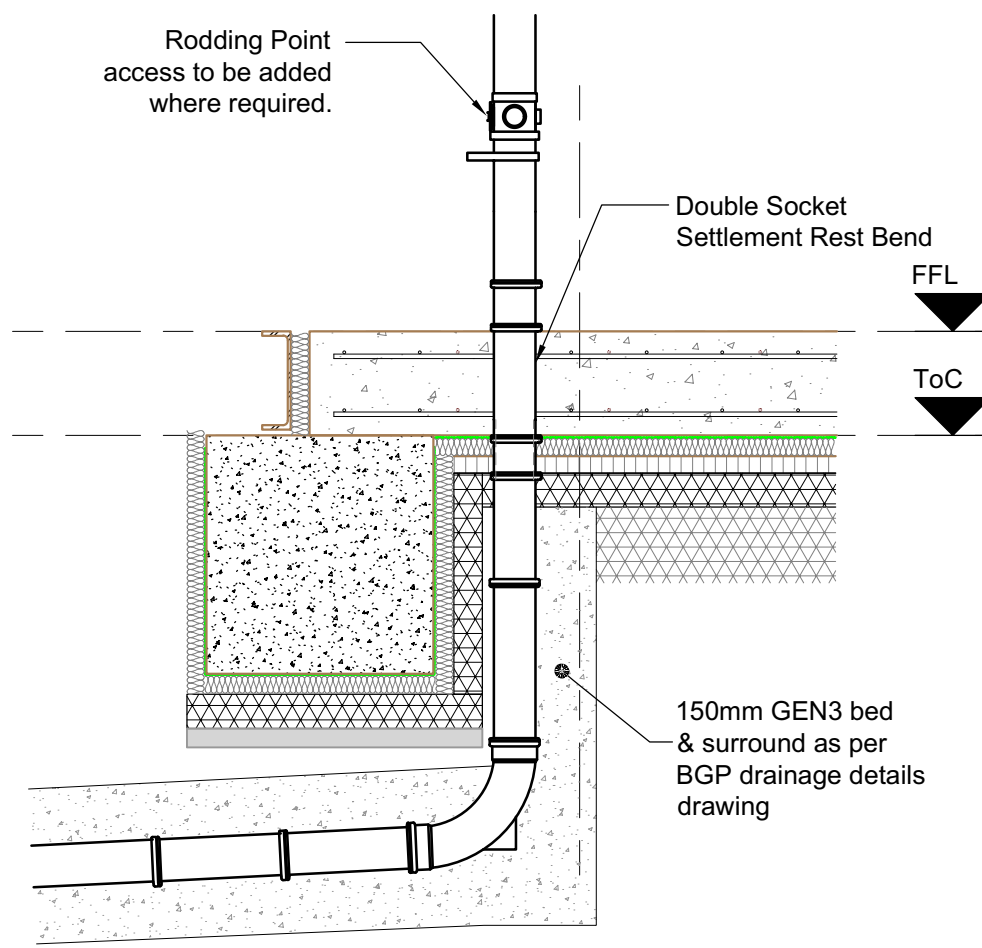
("Flexcell" compressible board to be used at all pipe joint locations)
Scale 1:20



Carriageway Reinstatement Detail
Scale 1:20



Typical Detail showing Pipe beneath
Ground Beam Foundation
NTS



Typical Detail showing Pop Up Beneath
Perimeter Ground Beam Foundation
NTS