

DRAWING NOTES

- This Drawing is to be read in conjunction with the relevant Specifications & other Architectural & Engineering Drawings. Engineers to be informed immediately of any discrepancies between work proceeds.
- The Not Scale from this Drawing - Metric Figure Dimension only are to be used.
- It is the Contractors' responsibility to ensure that all works are carried out in accordance with the requirements of the current Building Regulations and all other statutory documents relevant to this project including the grant of planning permission, Fire Safety Certificate and Disability Access Certificate.
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Notes

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.

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, contaminants. All concrete to be produced on site must be mixed with only potable water, to ensure that it is clean from dirt and 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 cementitious grout or non structural concrete shall comply with BS 3892-2 & 3.

Vertified 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 EN 295 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 BS4121, 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. Unidirectional 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 Highways Agency guidance document HA 104/02. 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: 1 part cement, 1 part natural sand and 2 parts 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"

REV	DATE	BY	DESCRIPTION
CN1	01/02/2021	AM	ISSUED FOR CONSTRUCTION

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SDS
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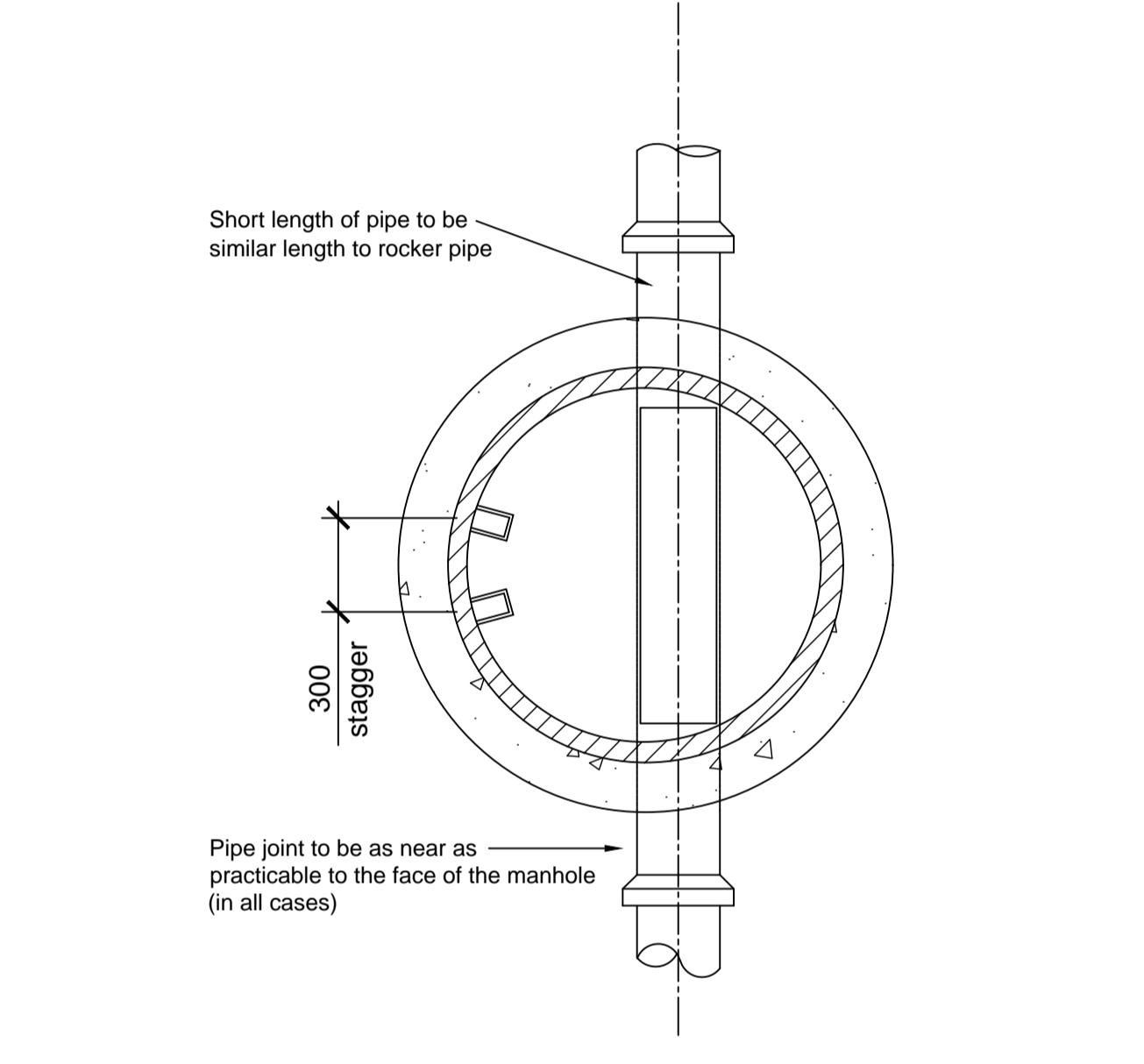
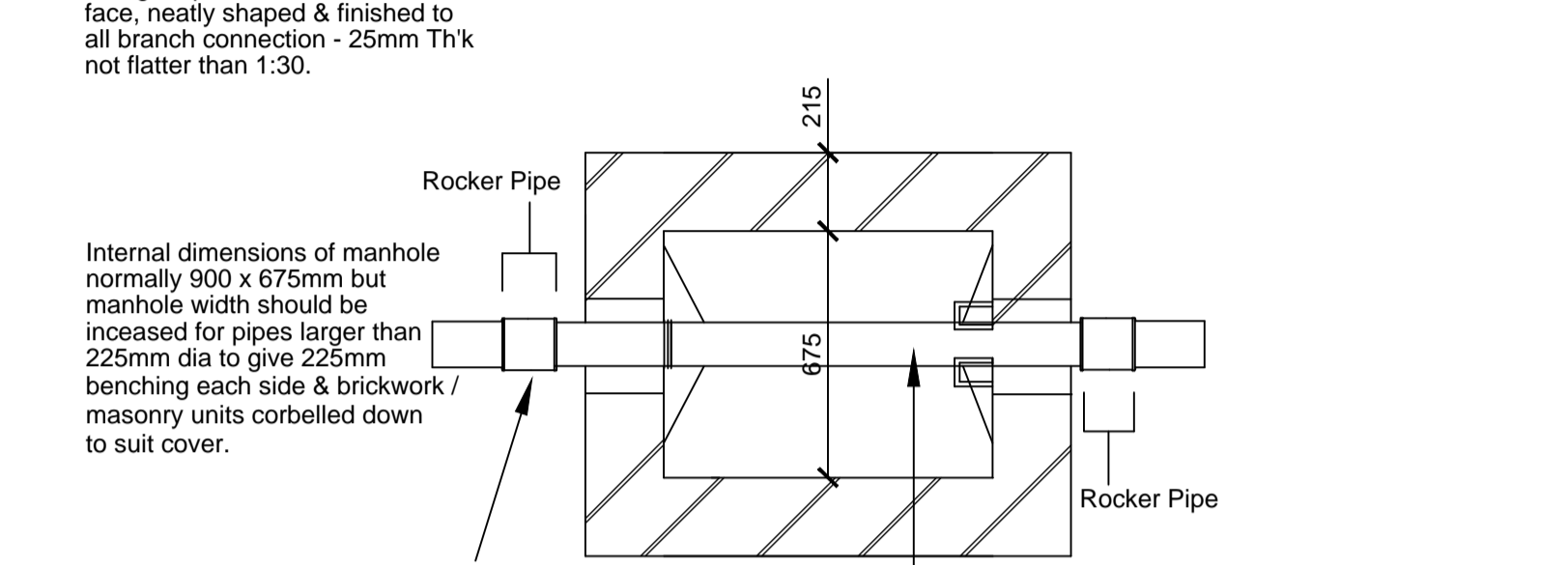
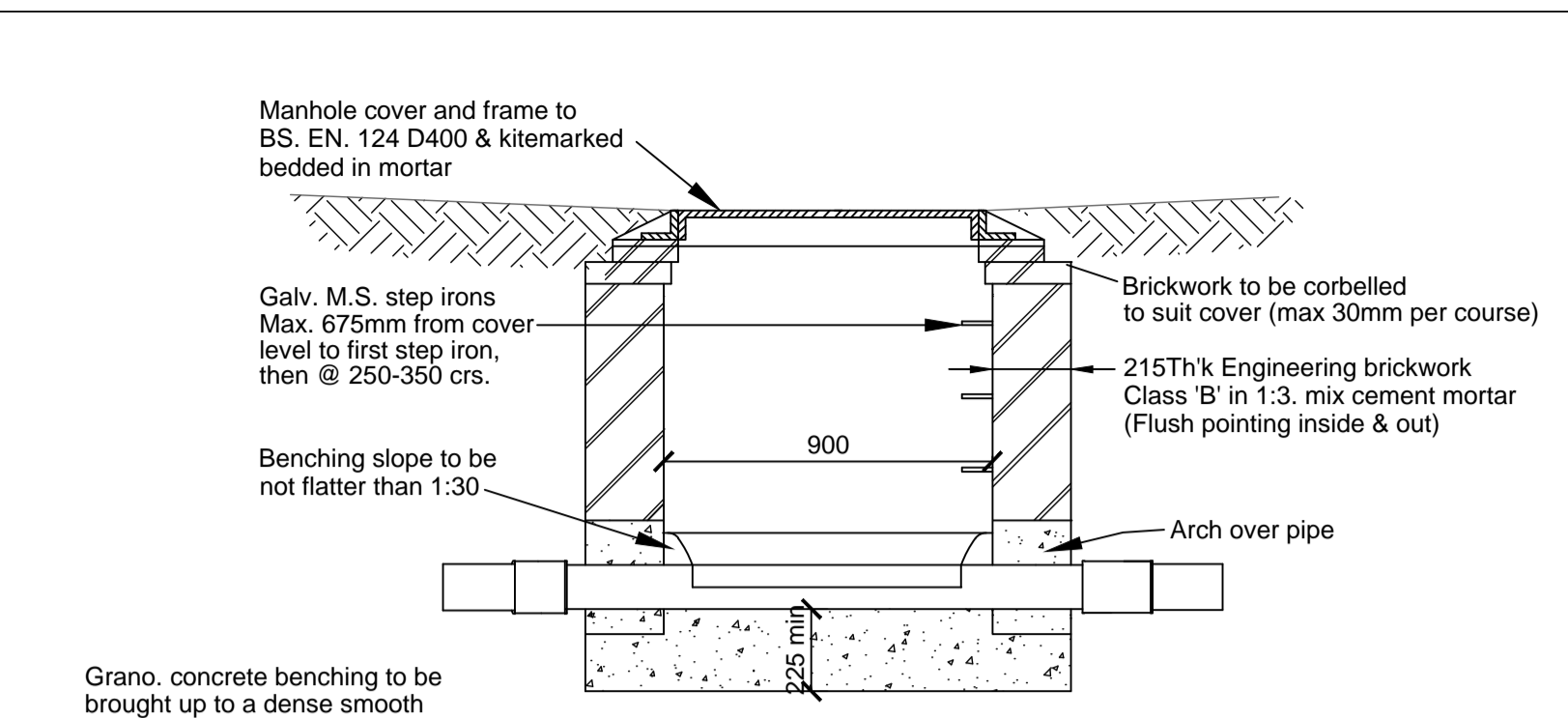
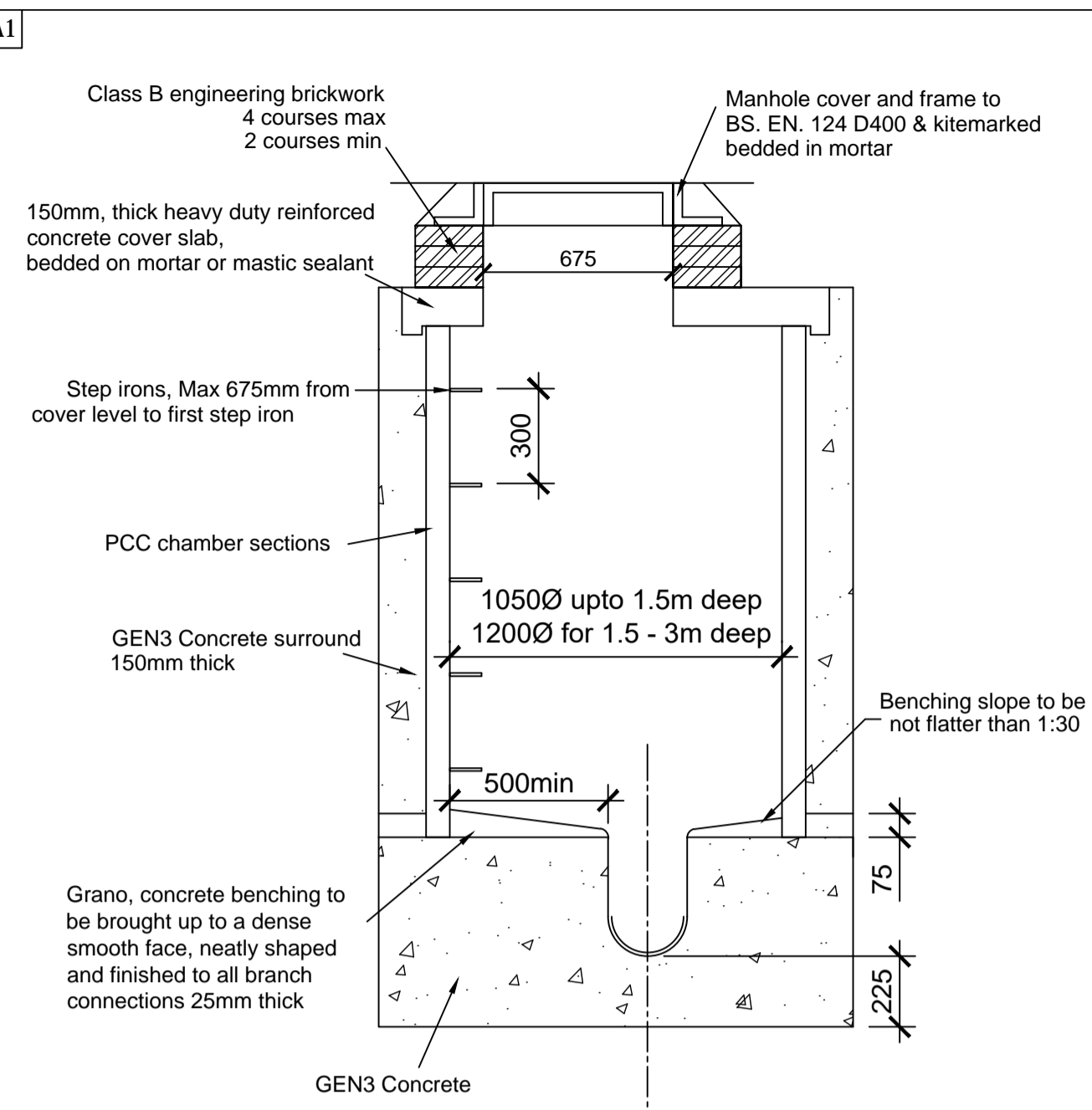
Client: **ADSTON**

Project Title: **LIDL EPSOM METROPOLITAN**

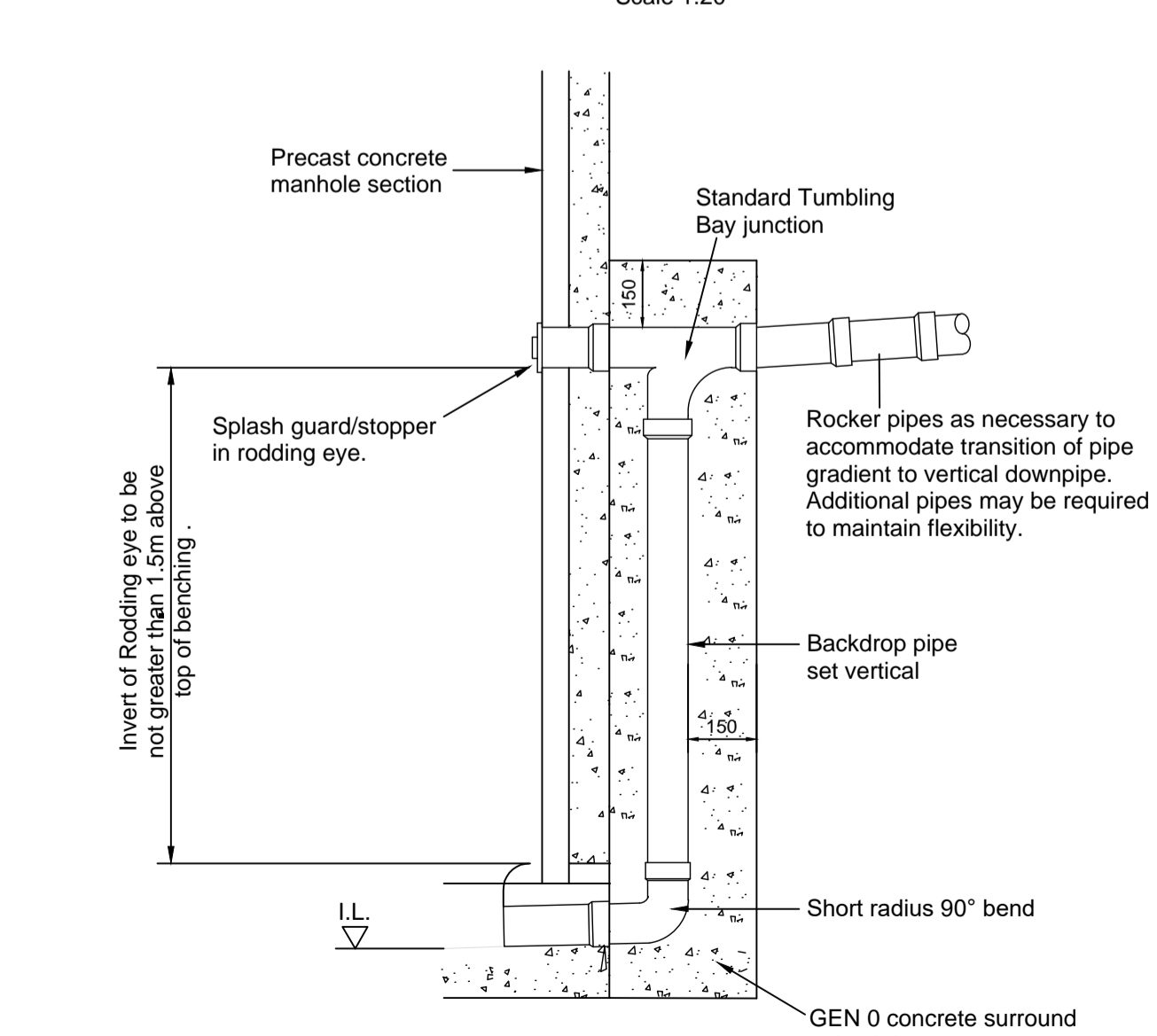
Drawing Title: **TYPICAL DRAINAGE DETAILS**

Scale: AS INDICATED	Paper Size: A1	Status: CONSTRUCTION
Prepared By: AM	Checked: M.M	Date: FEB 2021

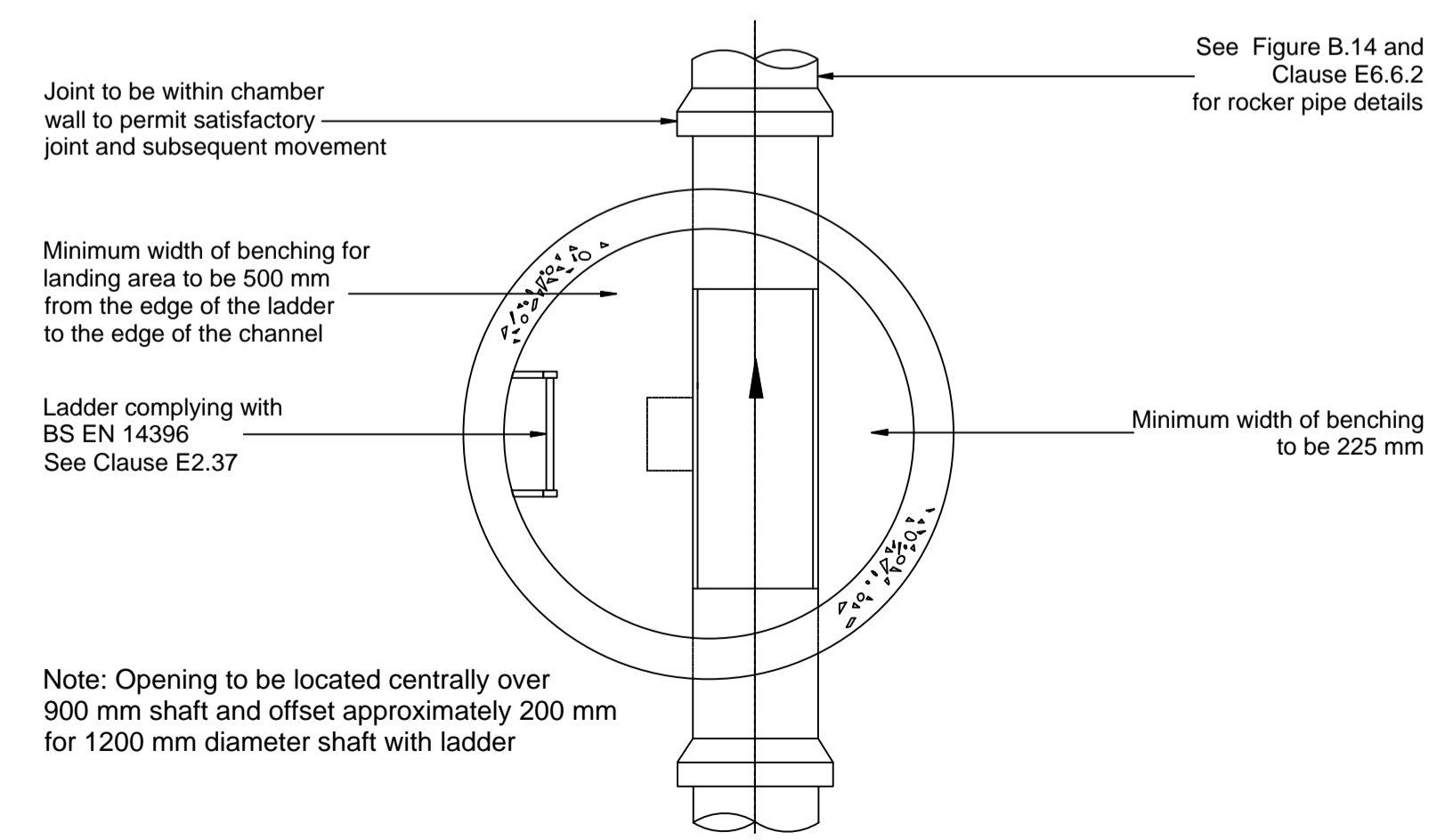
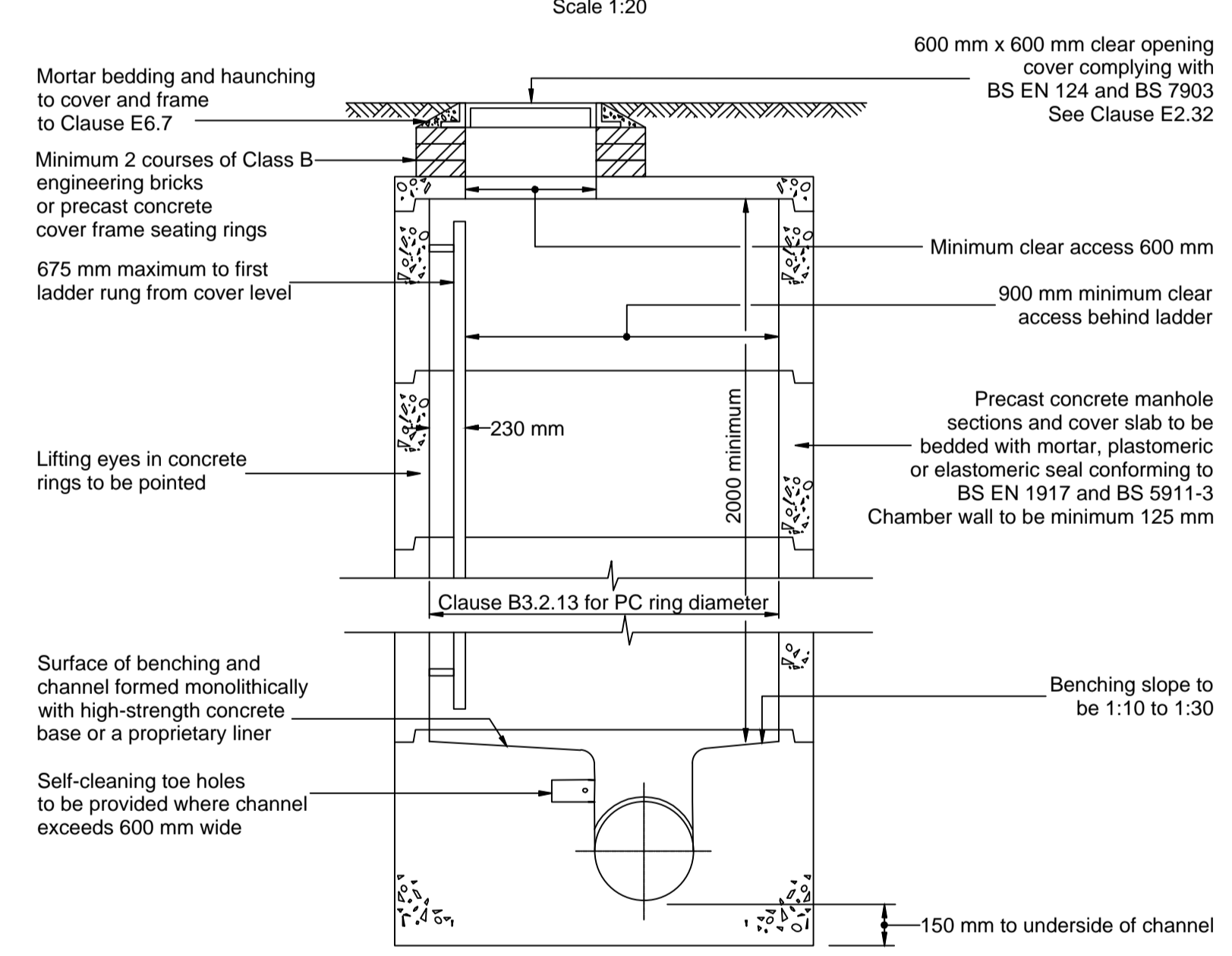
Project No: 20010	Drawing No: 3026	Rev: CN1
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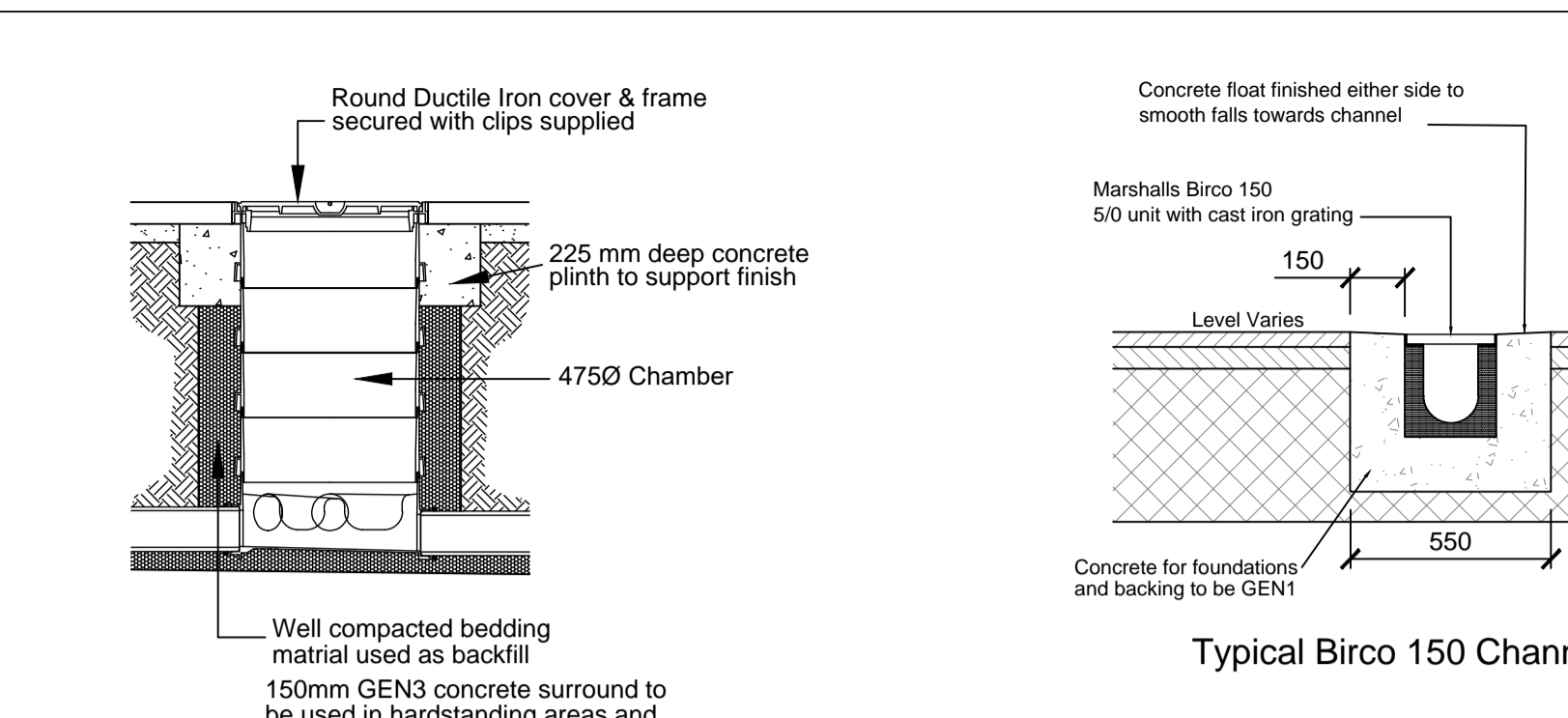
Adoptable Manhole Detail Type 2
 Depth from cover level to pipe soffit 3m max
 Scale 1:20



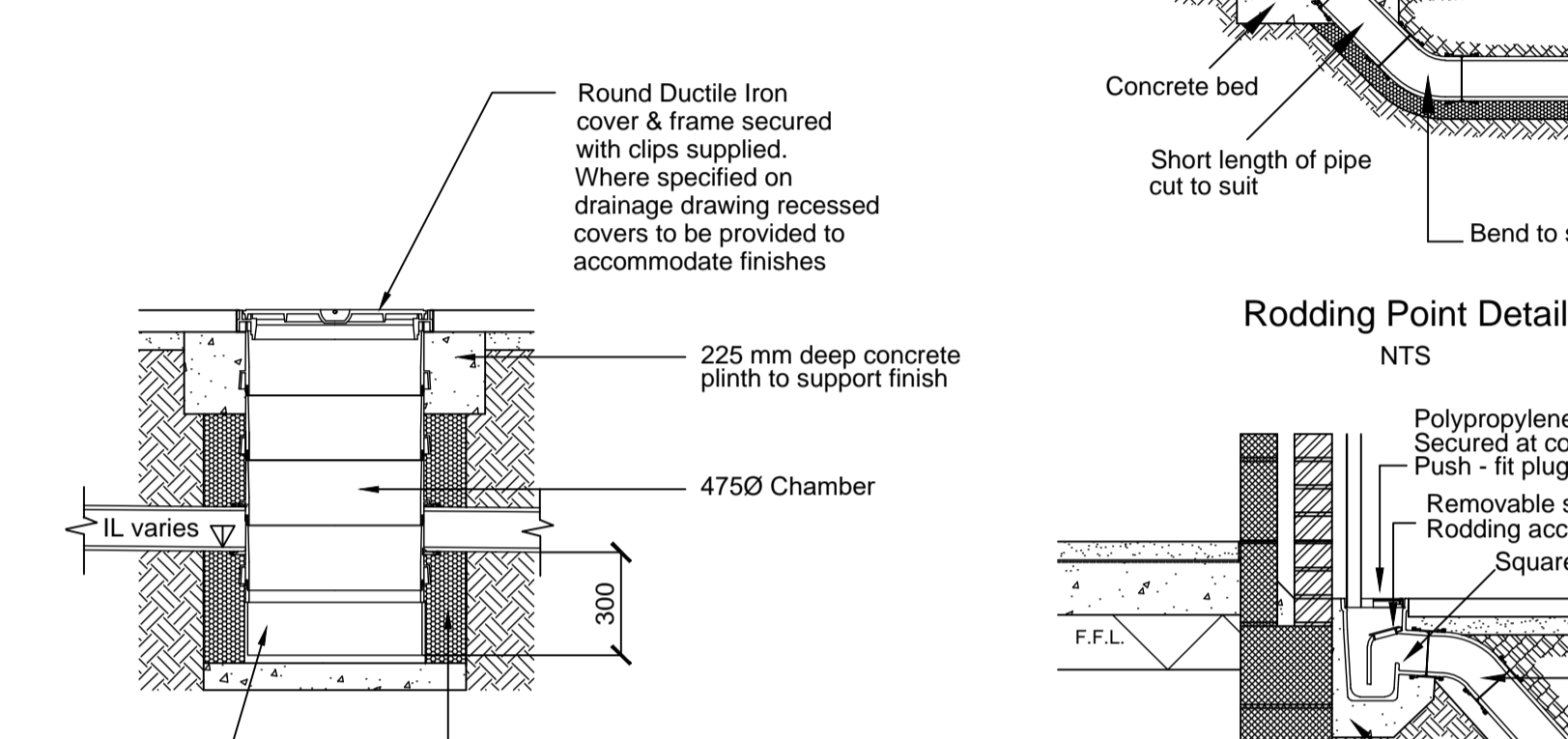
External Backdrop



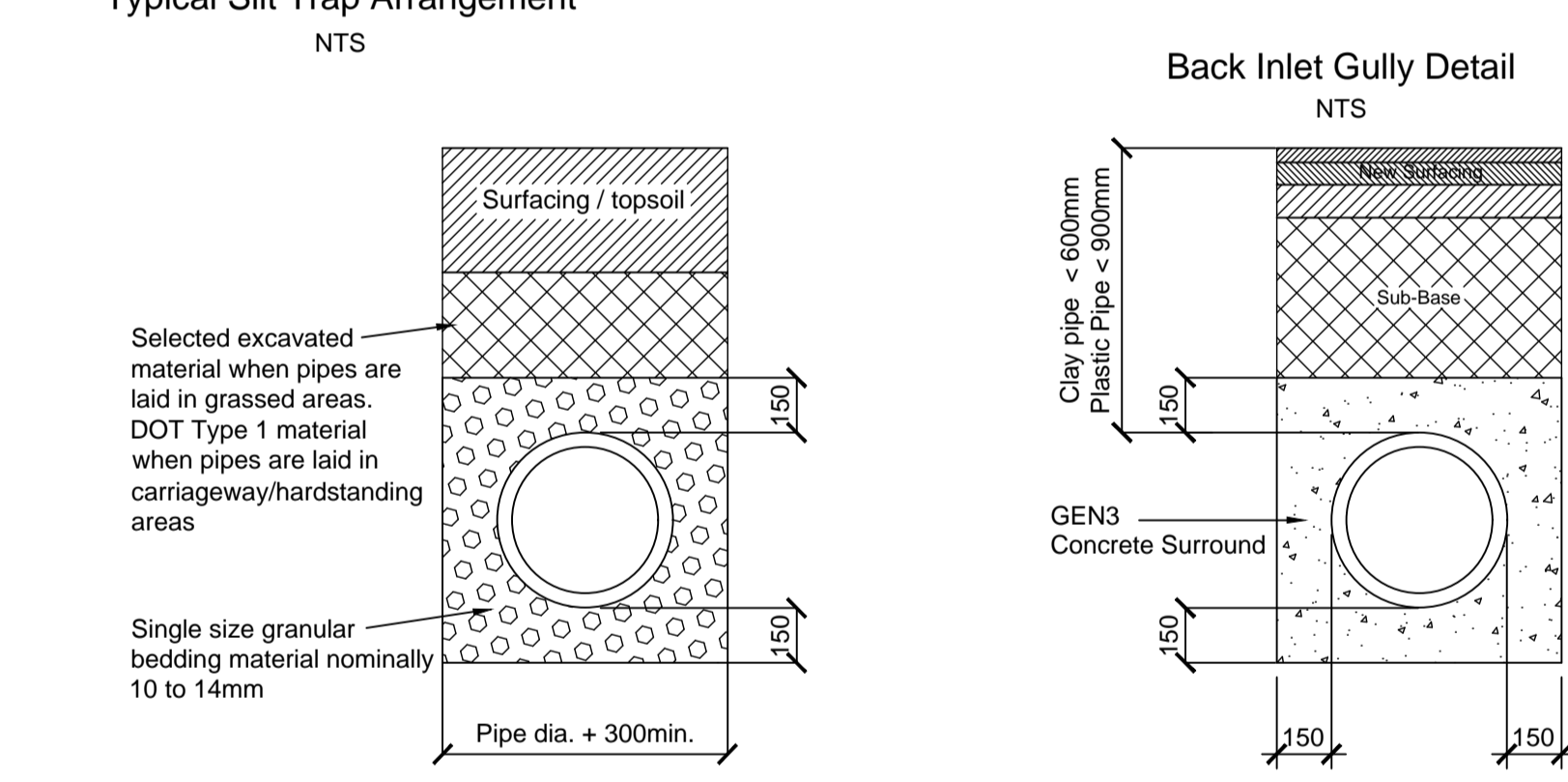
TYPICAL MANHOLE DETAIL - TYPE 1B
 Depth from cover level to soffit of pipe 3 m to 6 m
 Not to scale



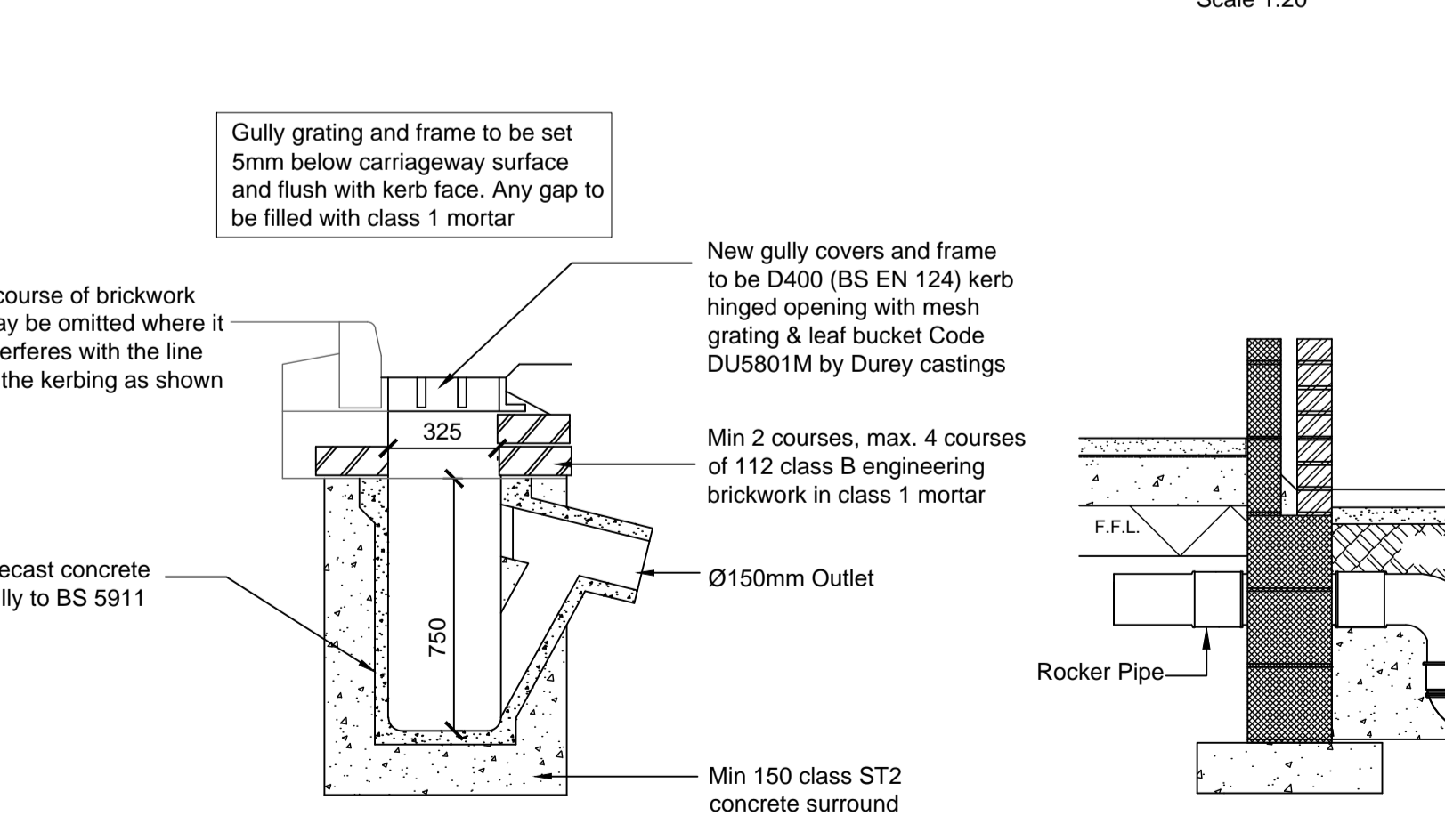
Details of 'UPVC' Manholes Type 3
 (Max depth 1.2m)
 NTS



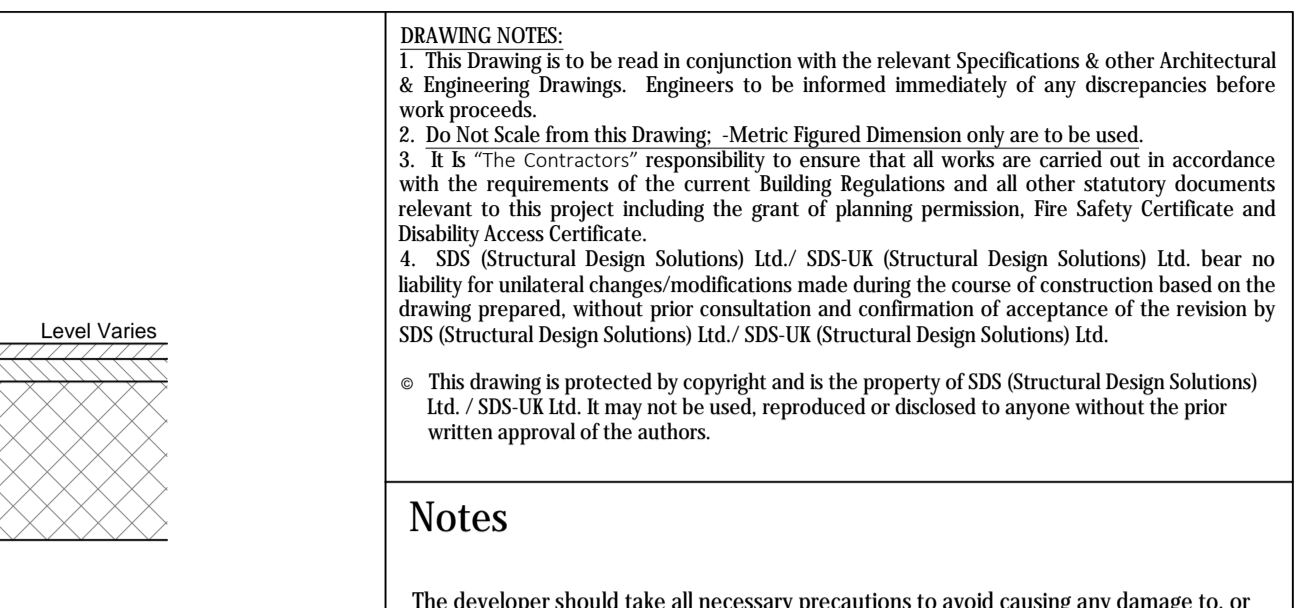
Typical Silt Trap Arrangement
 NTS



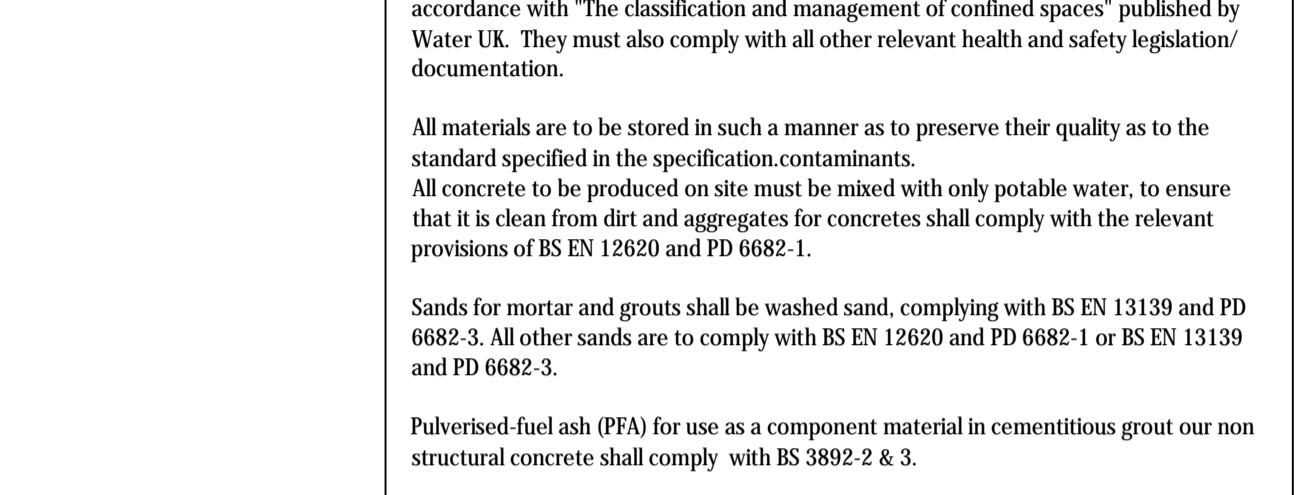
Class "S" Pipe Bedding Detail
 (Typical unless noted otherwise)
 Scale 1:20



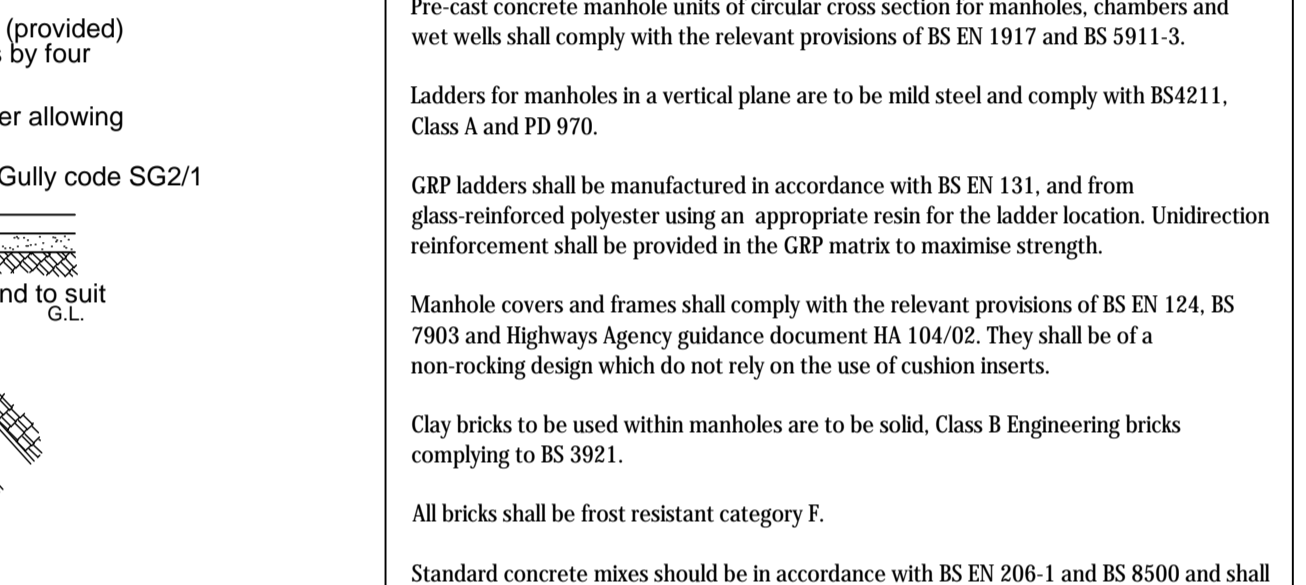
Typical Precast Concrete Road Gully
 Scale 1:20



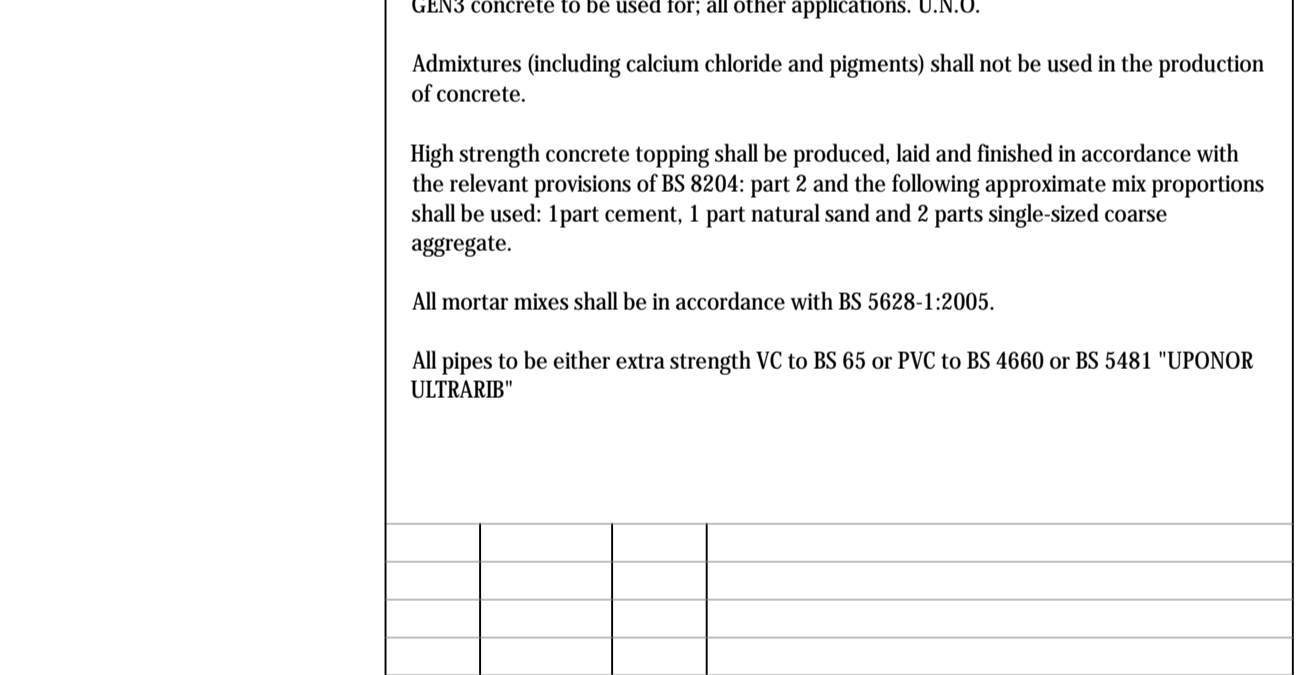
Typical Birco 150 Channel Detail



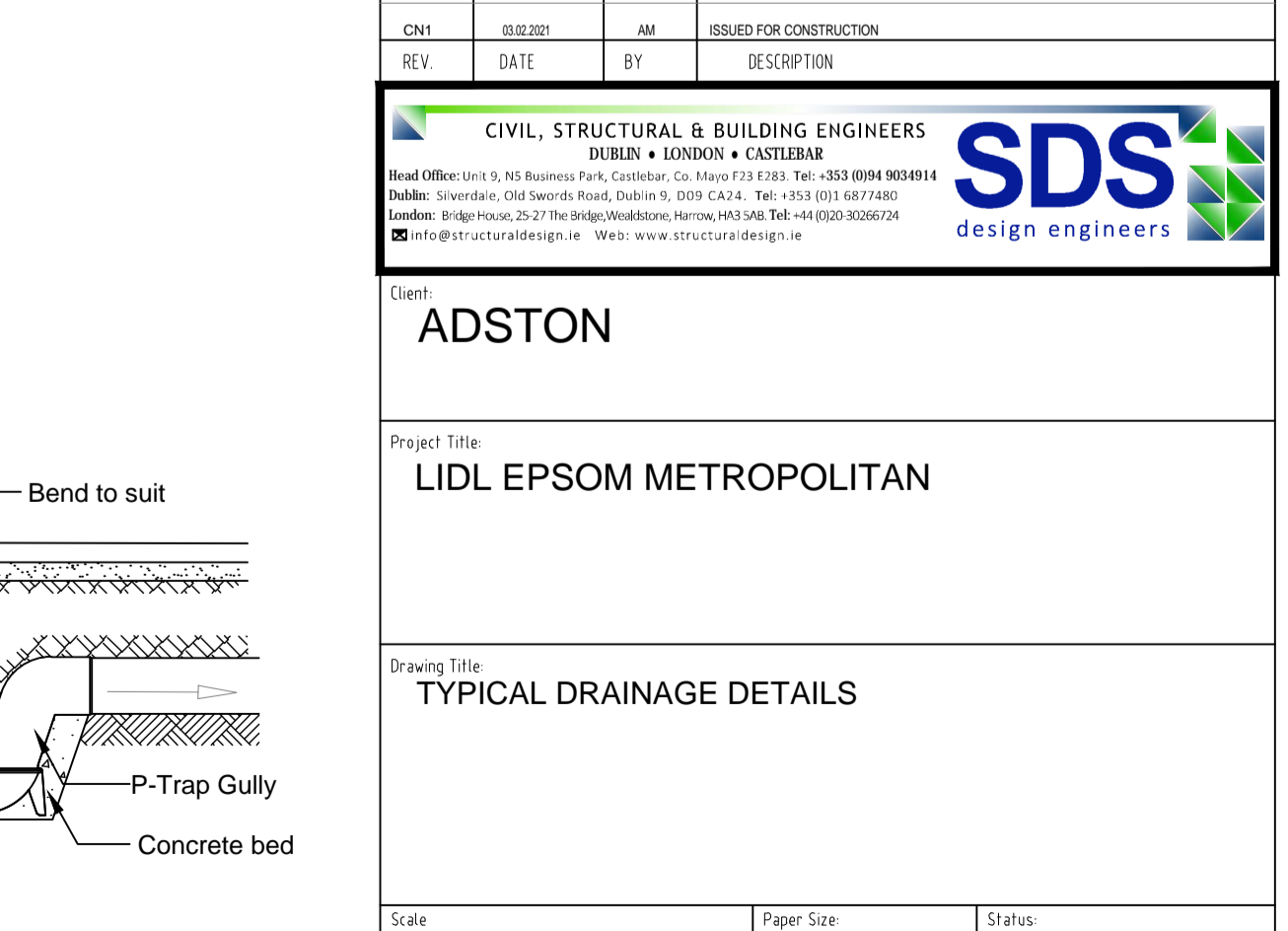
Rodding Point Detail
 NTS



Back Inlet Gully Detail
 NTS



Concrete Surround Detail (Hardstanding areas)
 ("Flexcell" compressible board to be used at all pipe joint locations)
 Scale 1:20



P-Trap Detail
 NTS