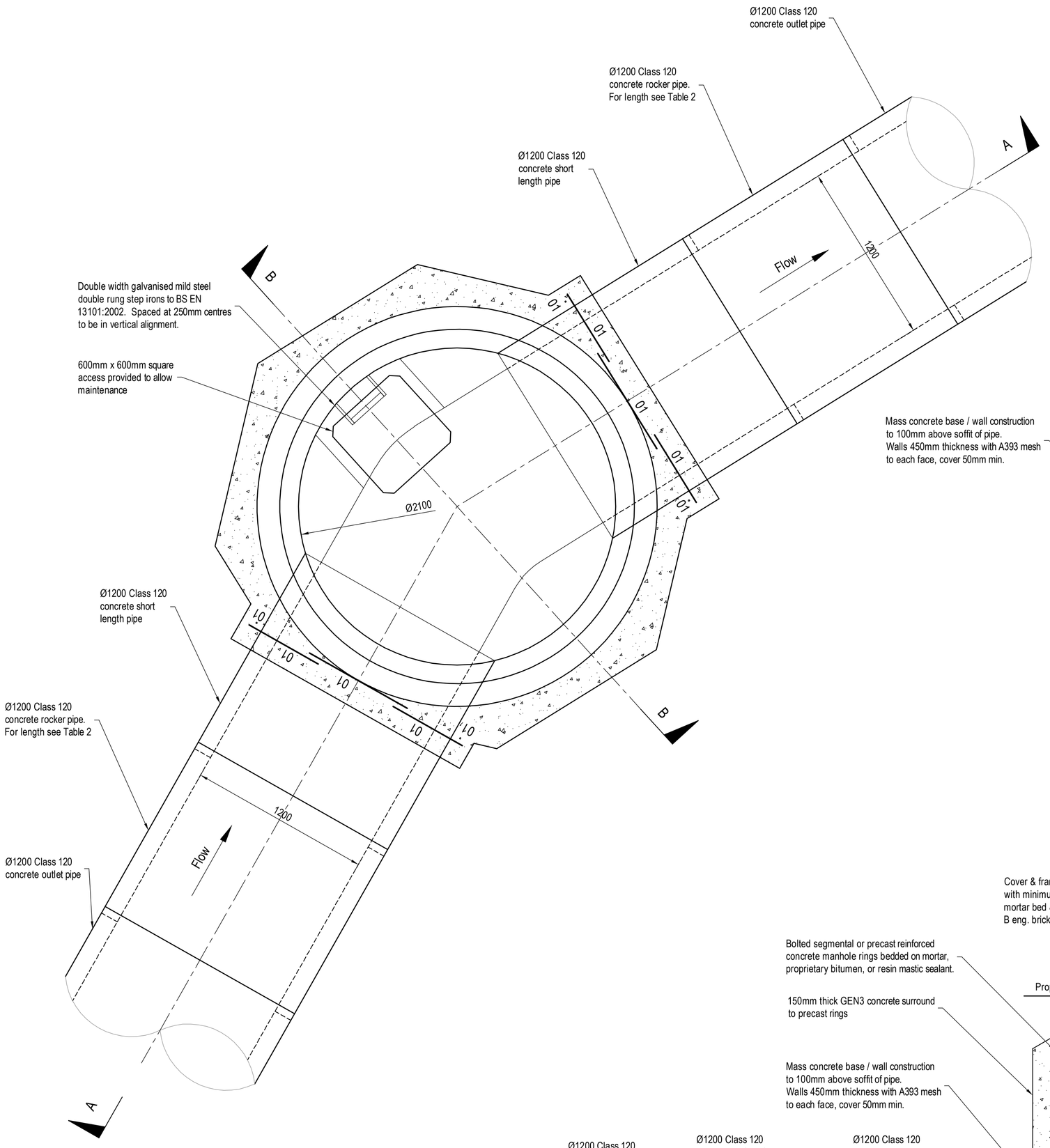
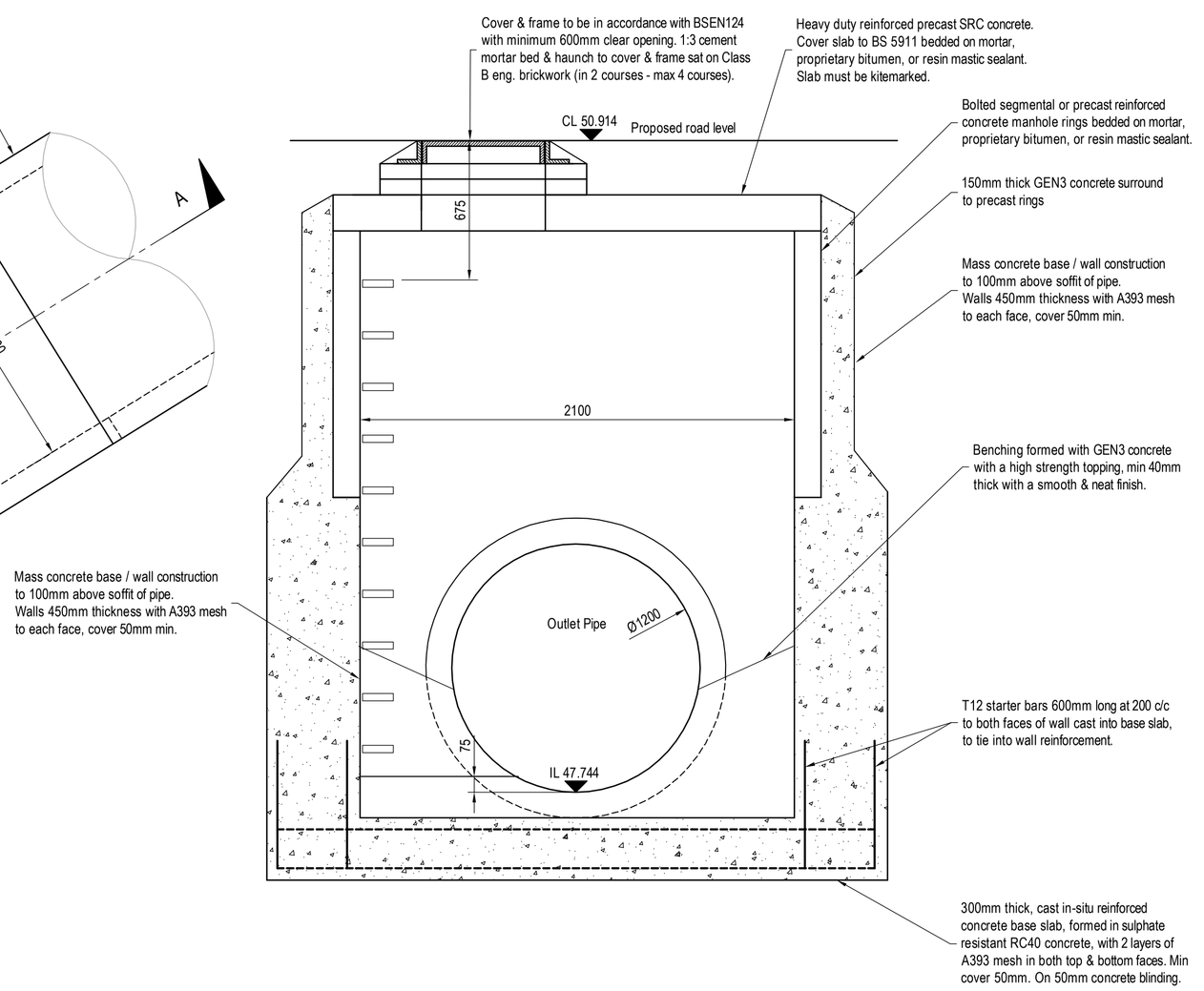


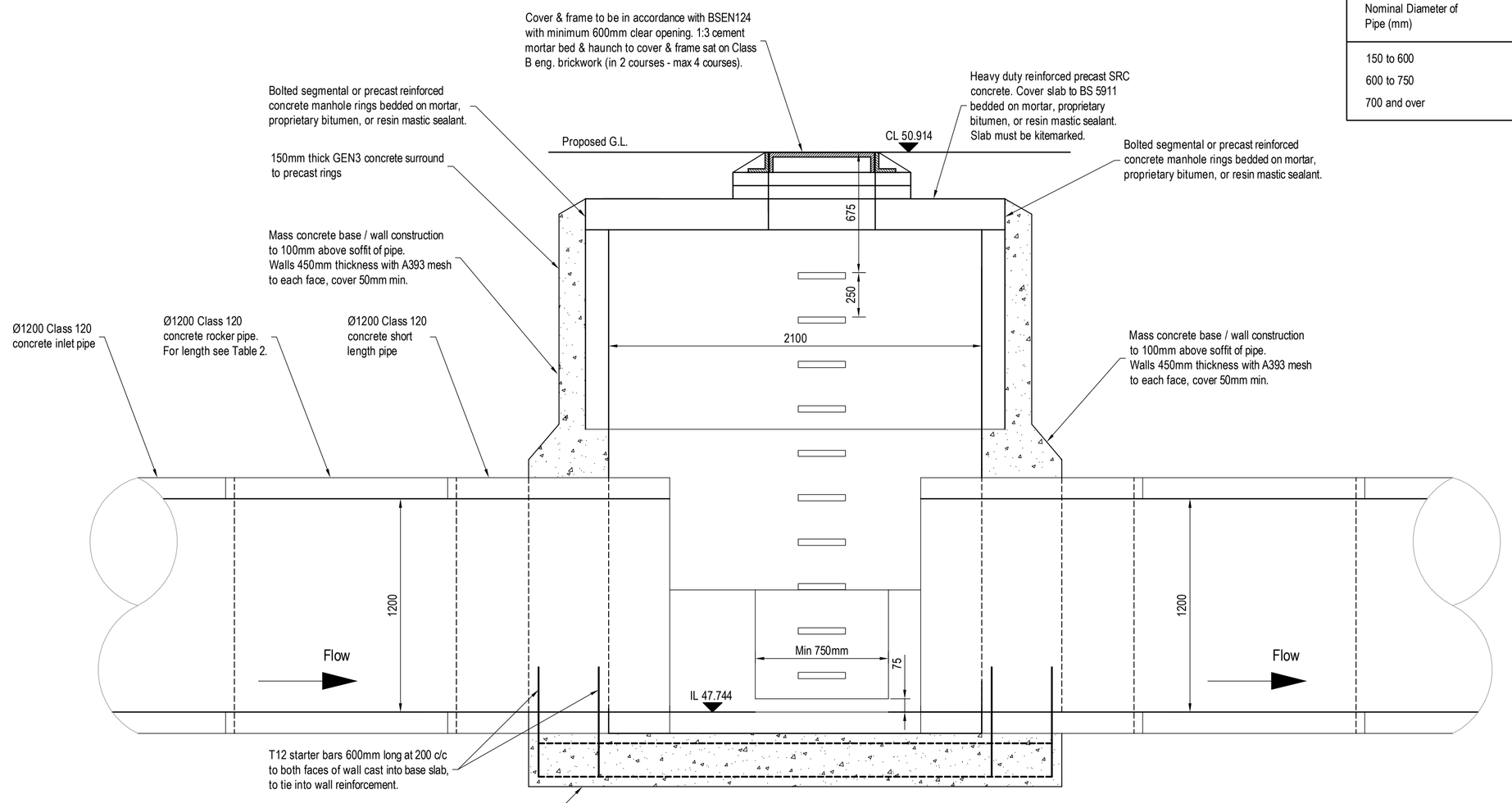
SECTION THROUGH REINFORCEMENT TO OUTLET

Scale 1:25



SECTION B-B

Scale 1:20



SECTION A-A

Scale 1:20

Table 2 - Rocker Pipe Length

Nominal Diameter of Pipe (mm)	Effective Length (m)
150 to 600	0.6
600 to 750	1.0
700 and over	1.25

YORKSHIRE WATER NOTES

1. All adoptable sewer works and materials to be in accordance with "Sewers for Adoption" 6th Edition, The Relevant British/European and Yorkshire Water`s Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
4. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Local Authority Land Drain Section with regard to the disposal of the filter drain/land drainage runoff.
5. Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
6. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report providing proof that such precautions are not necessary.
7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
8. Sewers must have 5 metres clearance from trees and hedges. (Please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to sewers)"
9. Sewers to be laid in class "S" bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas), a concrete slab should be provided above the granular bed and surround.
10. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
11. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
12. Yorkshire Water policy is not to accept Type "C" brick manholes and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m

Notes:-

1. Where this drawing has been issued in electronic .dwg format it has been done so in good faith. jnpgroup do not take any responsibility for any inaccuracies in the electronic data, which should be checked against the paper (or .pdf) drawing issue. Any apparent discrepancies should be immediately reported to jnpgroup. The electronic .dwg file should not be assumed to be to scale and should not be used for 'overlaying', setting out or checking of any third party information. All dimensions should be taken from the paper (or .pdf) version of the drawing. Electronic drawings may contain third party information. jnpgroup take no responsibility for this information, which should be checked against the originators paper drawing(s).
2. All working dimensions to be checked on site.
3. Do not scale.
4. Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer for decision.
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6. This drawing should only be used for construction if the drawing status is "Construction". jnpgroup take no responsibility for construction works undertaken to drawings which are not marked with this status.

Health and Safety Note:
The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

HAZARD IDENTIFICATION BOX		
This table is provided to assist the Principal Contractor to fulfil their obligations under the CDM Regulations 2015		
Construction Hazard	Maintenance / Cleaning Hazard	Demolition / Adaption Hazard

Rev.	Date	Amendment	By	Chk.

Status: For Approval

john newton & partners
jnpgroup
Consulting Engineers
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Chesham • **Brighouse** • Leamington Spa • Sheffield • Teesside
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Client	ASHMOUNT HOMES
Job	LAND OFF WOMBWELL LANE, BARNSLEY, S70 3NR
Title	MANHOLE SW MH02
Scale	As shown @ A1
Date	NOVEMBER 2016
Drawn By	CPY
Eng. Check	
Tech. Check	

BMTRADA · UKAS Accredited 012 · CHAS Accredited Contractor Reg: 66479 · Constructionline Supplier No. 0000220 · Achilles Audited

Drawing No.	Rev.
B20556-209	-

A1 Out 2000mm Plot