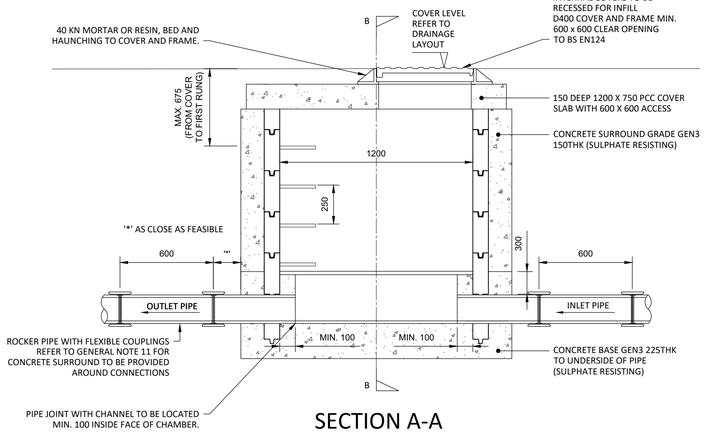
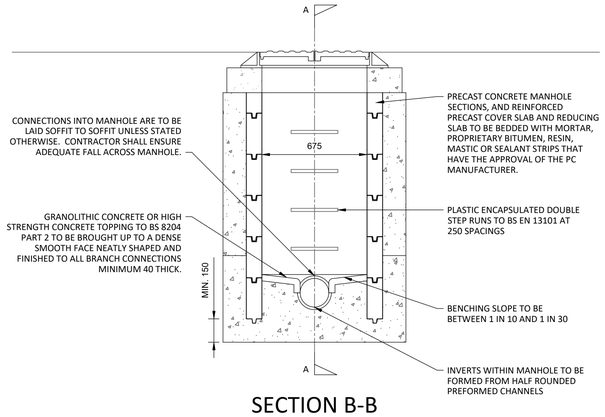
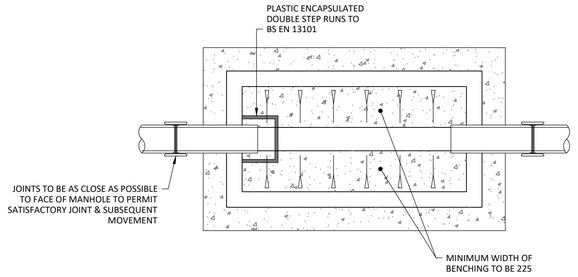


SECTION A-A



SECTION B-B



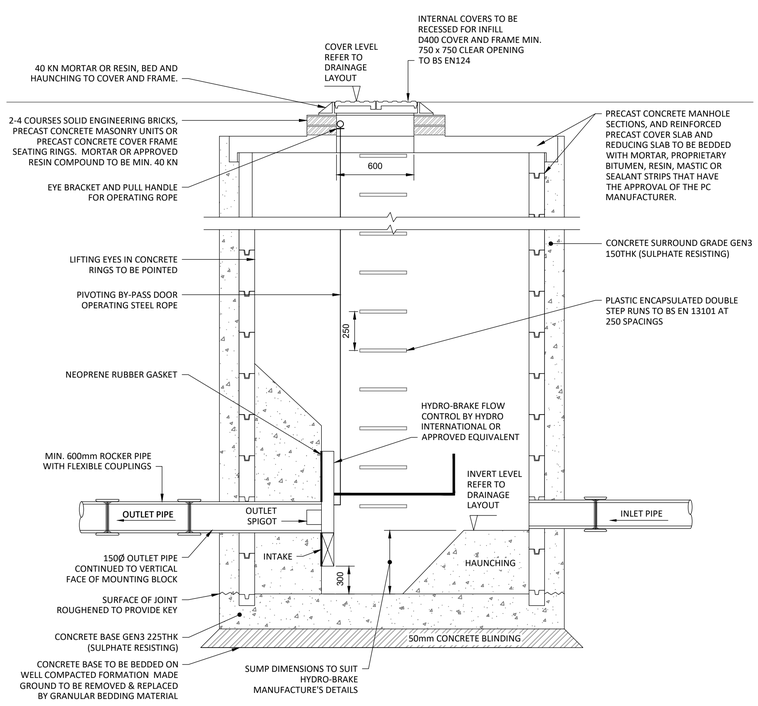
PLAN

RECTANGULAR PRECAST CONCRETE MANHOLE DETAIL

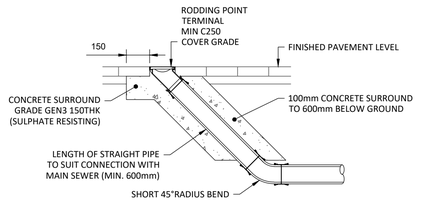
(DEPTH TO SOFFIT 1000 - 15000, MAXIMUM PIPE 300Ø)

FLOW CONTROL MANHOLE NOTES

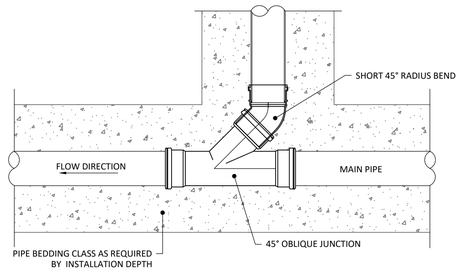
1. ALL DIMENSION ARE IN MILLIMETERS
2. PRECASTE CONCRETE UNITS TO BE BS5911 PART 200 AND TO BE CONSTRUCTED WITH A MINIMUM CLASS 3 SULPHATE RESISTING CEMENT
3. ALL INSITU CONCRETE TO BE GEN3 SULPHATE RESISTING CONCRETE
4. MATERIALS FOR JOINTING MANHOLE RINGS TO BE A RUBBER BITUMEN COMPOUND OF APPROVED MANUFACTURER 'TOKSTRIP' OR SIMILAR.
5. ALL BRICKWORK TO BE CLASS B ENGINEERING -2 COURSES MIN:4 COURSES MAX; 225mm THICK
6. 20mm THICK GRANOLITHIC CONCRETE BENCHING TO BE BROUGHT UP TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS. WHERE BENCHING IS LESS THAN 450mm WIDE, SLOPE TO BE 1:10; MORE THAN 450mm, 1:30
7. PIPES ENTERING MANHOLES TO HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH THE PIPE IS BUILT IN ORDER TO FACILITATE MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPELINES, BEDDING, LAYING AND JOINTING OF PIPES AND BACKFILING OF TRENCHES SHALL BE IN ACCORDANCE WITH THE W.S.A.SPEC 'SEWERS FOR ADOPTION' - 7TH EDITION TOGETHER WITH ANY LOCAL AUTHORITY REQUIREMENTS.



FLOW CONTROL MANHOLE DETAIL



TYPICAL RODDING EYE DETAIL



TYPICAL 45° PIPE JUNCTION CONNECTION DETAIL

Standard Notes

1. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification.
2. This drawing should not be scaled.
3. All dimensions are to be verified by the contractor on site.
4. All discrepancies should be reported to the C.A. prior to the commencement of the works.

© CIVIC ENGINEERS

Notes

BENCHING NOTES

Main & branch channels to be bedded and jointed in 1:3 cement mortar.

Main channel benching to be formed vertically to a minimum of the soffit of the outlet pipe. The benching shall be rounded off to a radius of approximately 25mm and sloped upwards at a gradient of 1:10 to 1:30 to chamber walls.

Benching shall be floated to a smooth, hard surface with a 1:2 cement mortar laid monolithic with the benching.

Side branches of diameter up to and including 150Ø should discharge to the main channel in the direction of flow, preferably at half pipe level. Where the connecting angle is more than 45°, three quarter section bends should be shaped so as to contain the flow without permitting fouling and facilitate rodding of branch drains.

A branch with greater than 150Ø should be set with the soffit level with that of the main drain.

COVERS & FRAMES

Internal cover and frame shall be of the recessed type to accommodate infill material.

Covers within block paved areas shall be orientated to suit orientation of surrounding blockwork. Manhole covers and frames situated within vehicular areas are to be Class D. Manhole covers and frames situated within non-vehicular areas are to be Class B (Refer Manhole Schedule). Manhole covers and frames are to comply with BS EN124-2 if cast iron.

Manhole access to be orientated such that step irons lead to benching and not pipe channels.

Oversail corbelling shall not exceed 30mm on each course.

Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other safety devices.

Toe holes to be provided in benching of sewer greater than 450mm diameter for access to pipe invert.

All connections into and out of chambers/gullies to have Class Z concrete surround with flexible couplings and flexiboards on all couplings where cover to pipe soffit is equal to or less than:

1) 1200mm under vehicular areas
2) 600mm under non-vehicular areas

All adoptable details shown on this drawing shall be constructed in accordance with Sewers for Adoption 6th Edition

All concrete used in construction within sewer/drain and domestic drainage to be constructed with sulphate resisting cement.

Date	Rev	Description	Drawn	Chkd
23.04.21	C01	Construction	AB	CK
29.01.21	T01	Supersedes drawing 1098-01-CE-YY-XX-DR-DR-DE-0002-T01	LGS	CK

Civic Engineers
MANCHESTER
LONDON
LEEDS
GLASGOW
Carver's Warehouse, 77 Dale Street, Manchester, M1 2HG. Tel: 0161 228 6757
Reeds Wharf, 33 Mill Street, London SE1 2AN. Tel: 020 7252 2977
Tower Works, Unit 92-01, Globe Road, Leeds, LS11 5QG. Tel: 0113 2025 130
Gresham Chambers, 45 West Nile St, Glasgow, G1 2PT. Tel: 0141 370 1829
www.civicengineers.com

Project

Addington Street
New Cross

Title

Drainage Strategy
Drainage Details
Sheet 2 of 5

Status

CONSTRUCTION

Scale @ A1	Date Created	Drawn	Checked
1:20	04/10/19	EMM	PJC

Project Number	Originator	Discipline	Drawing Number	Revision
AS01	CIV	D	DR-0102	C01