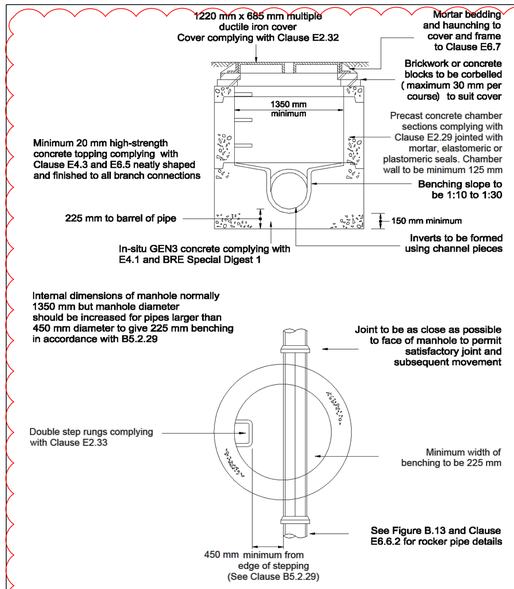


Note: The use of precast concrete chamber units to E2.29 with 150 mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.

FIGURE B 10

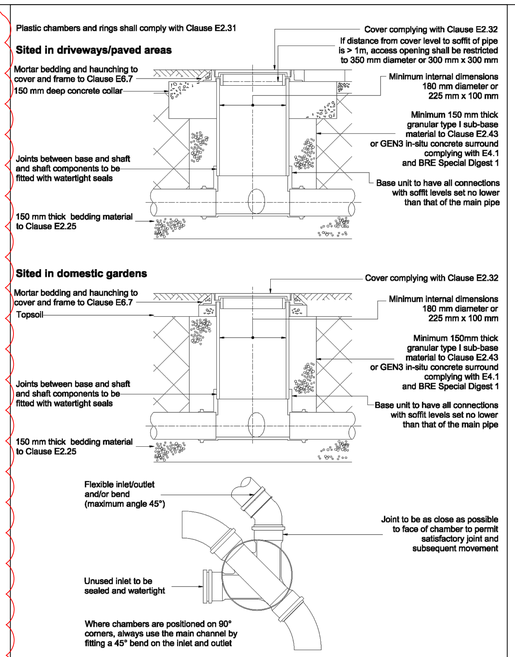
TYPICAL MANHOLE DETAIL - TYPE C

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5m

MAXIMUM PIPE SIZE 450mm DIAMETER

RIGID MATERIAL CONSTRUCTION

NOT TO SCALE



Note: Where the access chamber is in the highway (including any footway), the highway authority can have specific requirements.

Not to scale

FIGURE B 23

TYPICAL INSPECTION CHAMBER DETAIL - TYPE E

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 2m

FLEXIBLE MATERIAL CONSTRUCTION

NOT TO SCALE

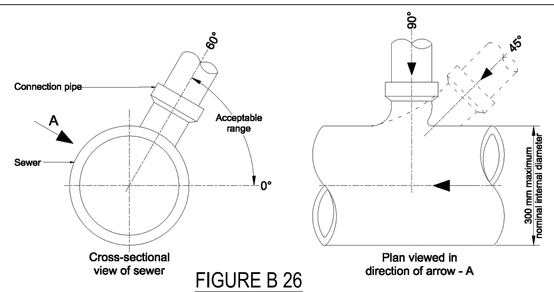


FIGURE B 26

CONNECTIONS TO SEWER

NOT TO SCALE

5. Where the connection is being made to a sewer with a nominal internal diameter of 300 mm or less, connections should be made using 45° angle, or 90° angle curved square junctions (see Figure B 26).

6. Connections made with junction fittings should be made by cutting the existing pipe, inserting the junction fitting and jointing with flexible repair couplings or slip couplers.

7. Where the connection is being made to a sewer with a nominal internal diameter greater than 300 mm:

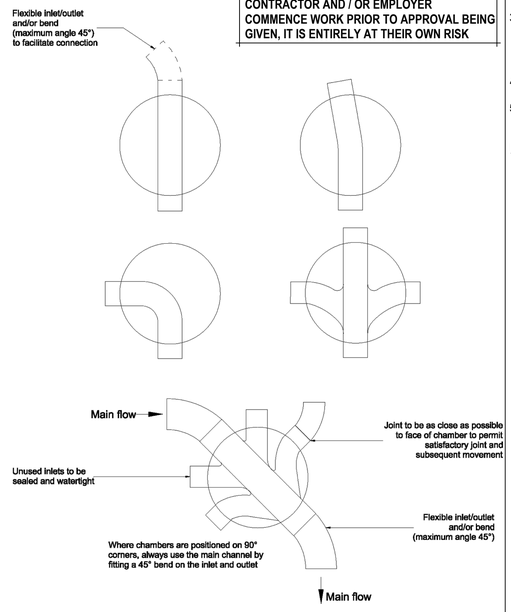
a) where the diameter of the connecting pipe is greater than half the diameter of the sewer, the connection of an access point should be constructed; or

b) where the diameter of the connecting pipe is less than or equal to half the diameter of the sewer, then the connection should be made using a preformed saddle fitting.

8. Connections made with saddle fittings should be made by cutting and safely removing a core from the pipe and jointing the saddle fitting to the pipe, in accordance with the manufacturer's instructions, to ensure a watertight joint. The connecting pipe should not protrude into the sewer.

9. To provide a self-cleansing regime within gravity foul sewers, the minimum flow velocity should be 0.75 m per second at one-third design flow. Where this requirement cannot be met, then this criterion would be considered to be satisfied if:

NOTE:
UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK



Note: Where a bend is used immediately outside the manhole, this may be used as the rocker pipe.

FIGURE B 22

TYPICAL BASE LAYOUTS FOR TYPE D CHAMBERS

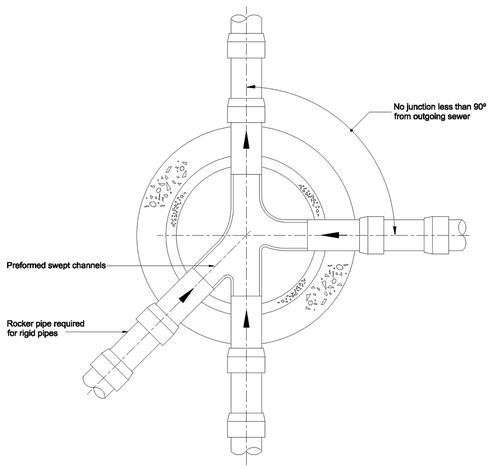
NOT TO SCALE

GENERAL NOTES:

1. DO NOT SCALE FROM THIS DRAWING. ONLY USE FIGURED DIMENSIONS. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL ENGINEER'S DRAWINGS AND DETAILS, THE SPECIFICATION FOR THE WORKS, THE RELEVANT ARCHITECT'S DRAWINGS AND ANY OTHER SPECIALIST'S DRAWINGS
3. CIVIL ENGINEERING DESIGN COMPLETED IN THE ABSENCE OF A COMPLETE COMBINED UTILITIES DESIGN AND DRAWINGS. IT IS ASSUMED THAT UTILITIES WILL BE POSITIONED TO SUIT PROPOSED DRAINAGE LAYOUT
4. PROPOSED BOUNDARY LAYOUT AND DETAILS BY OTHERS.
5. SOFT LANDSCAPING LAYOUT,DETAILS AND SPECIFICATION BY OTHERS

DRAINAGE CONSTRUCTION DETAIL NOTES:

1.1. WHERE NOTED DETAILS ARE TAKEN FROM SEWER SECTOR GUIDANCE APPENDIX C - DRAINAGE CONSTRUCTION GUIDANCE. ALL DETAILS ARE NOT TO SCALE AND DIMENSIONS STATED ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. SEE SSG DESIGN FOR CONSTRUCTION WHERE DETAILS REFER THE READER TO VARIOUS DOCUMENTATION. REFER TO ORIGINAL DOCUMENTATION TO CONFIRM THE LATEST INFORMATION IS BEING USED.



Sectional Plan

Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

All pipes entering the bottom of the manhole to have soffits level.

FIGURE B 13

TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

NOT TO SCALE

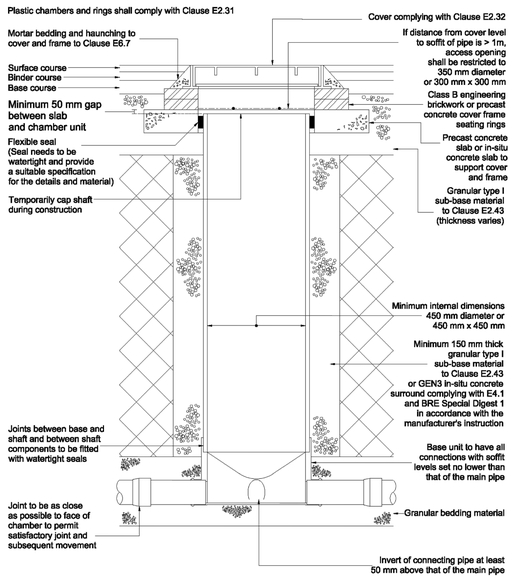


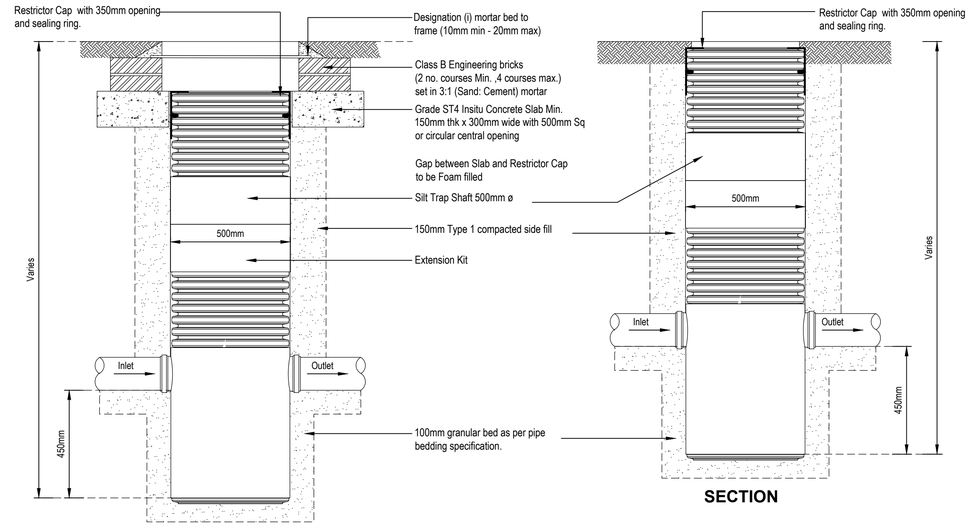
FIGURE B 18

TYPICAL INSPECTION CHAMBER DETAIL - TYPE D

DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3m

NOT TO SCALE

FIGURE DETAILS ON THIS SHEET ARE TAKEN FROM SEWERAGE SECTOR GUIDANCE APPENDIX C - DRAINAGE CONSTRUCTION GUIDANCE. REFER TITLEBLOCK NOTE 1.1.



UPVC SILT TRAP INSPECTION CHAMBER (Type CP2) (Trafficked areas with extension option)

UPVC SILT TRAP INSPECTION CHAMBER (Type CP2) (Non trafficked areas)

Revision Details	By / Check	Date	Suffix
REVISED DRAINAGE STRATEGY	MCC / EC	02.09.24	C02
CONSTRUCTION ISSUE	TP / EC	09.07.24	C01

Drawing Status: CONSTRUCTION

Client: BOUTIQUE MODERN

Project Name: DANIEL CLOSE

Drawing Title: PROPOSED DRAINAGE DETAILS SHEET 1

Scale at A1: AS SHOWN @ A1	Client Project Number: -
Drawn: DW	BDC Project Number: 23095
Approved: EC	Date: SEP 2023

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Drawing Number: 23095-BDC-C-XX-XX-EL-0542 Rev: C02

P:\2023\23095 Daniel Close\2.0 Drawings\2.4 BDC C Drawings\v2.2.1 Cad\23095-BDC-C-XX-XX-EL-0541 - Proposed Drainage Details (DAN).dwg