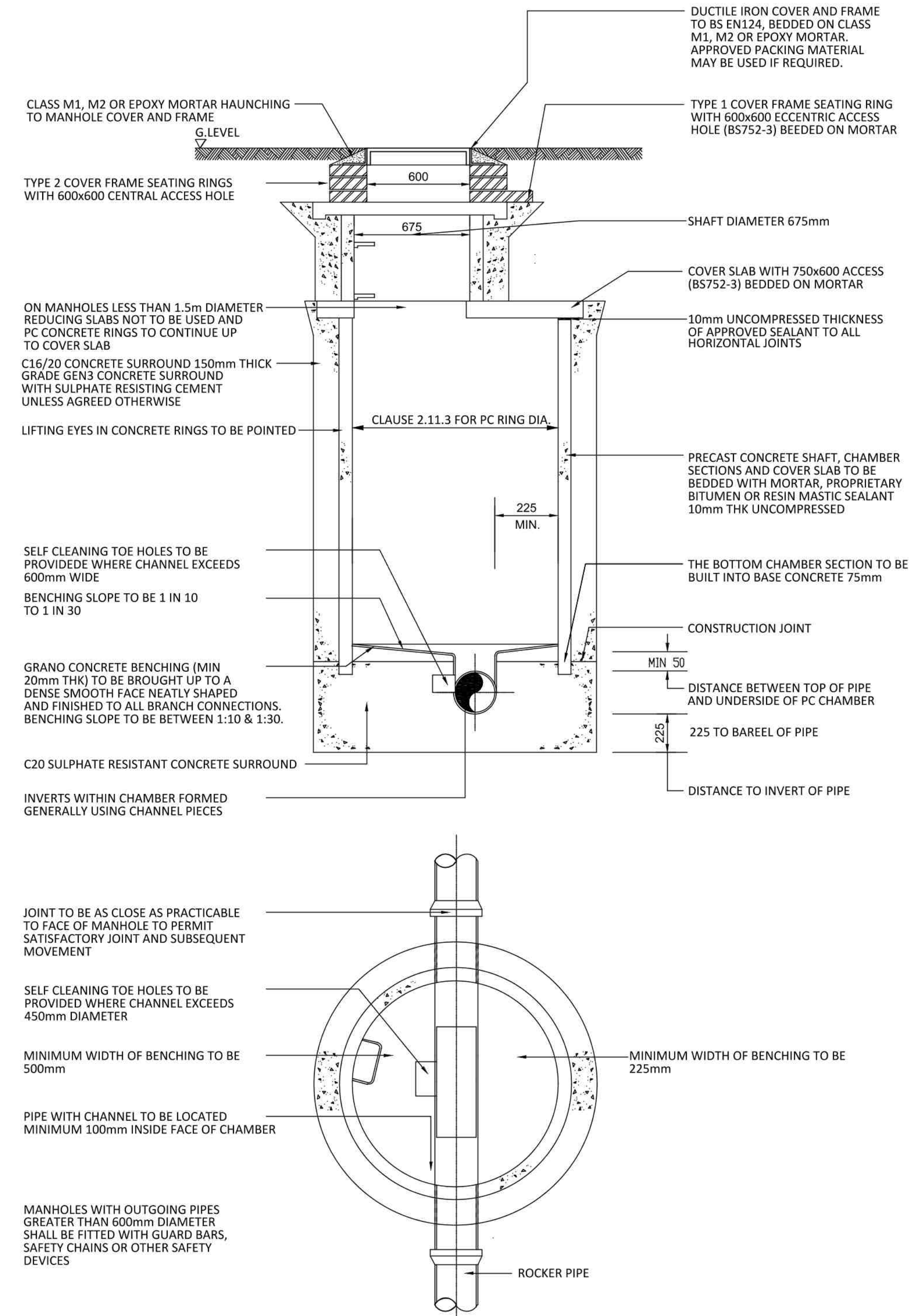
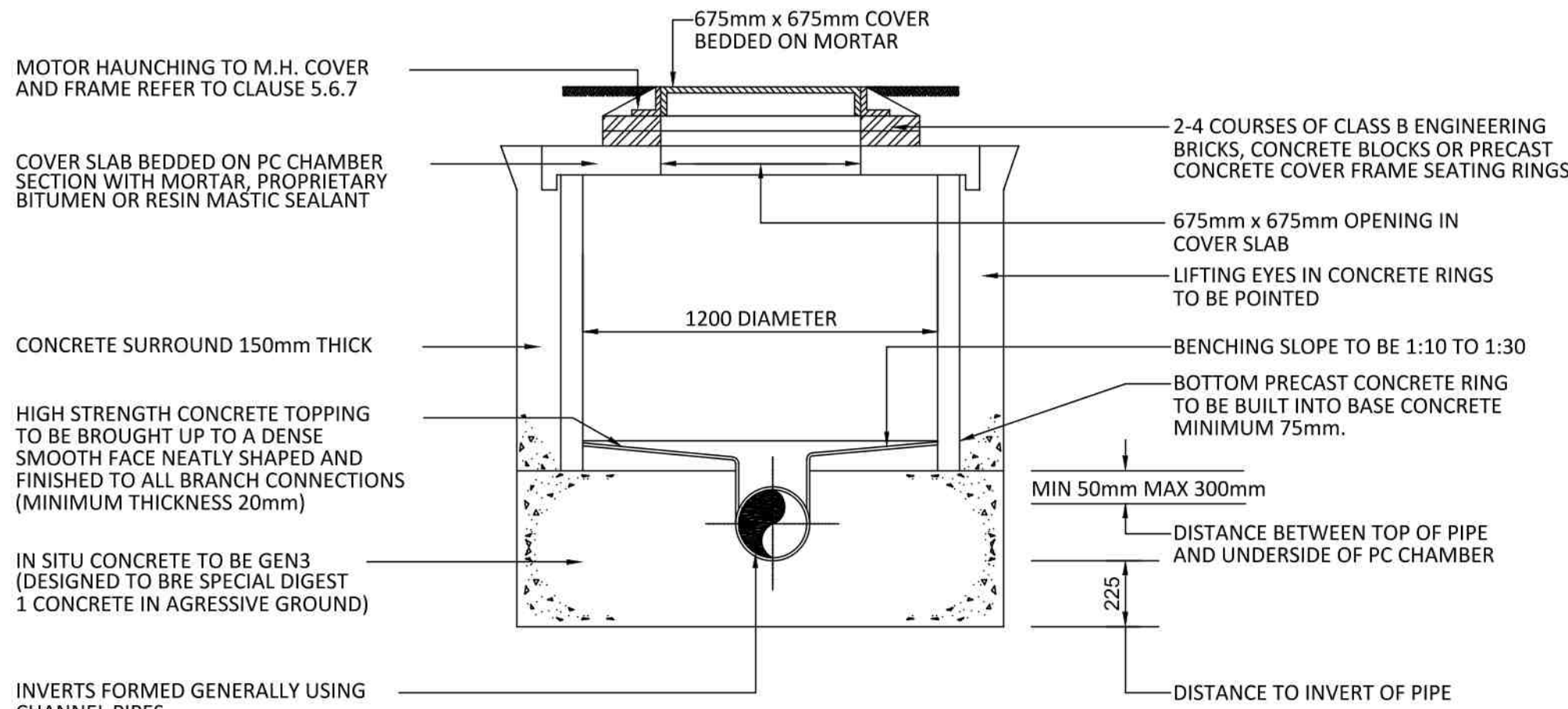
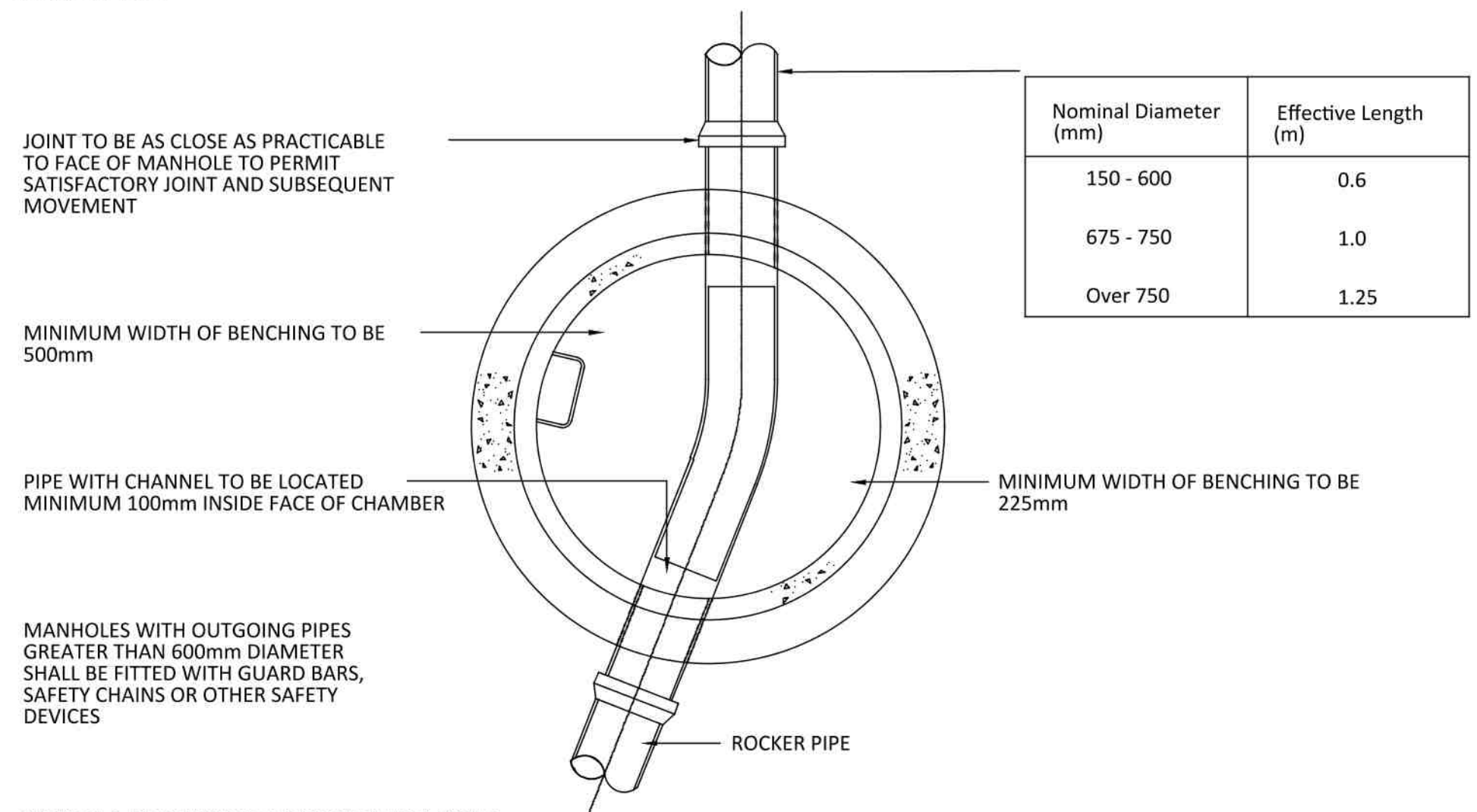
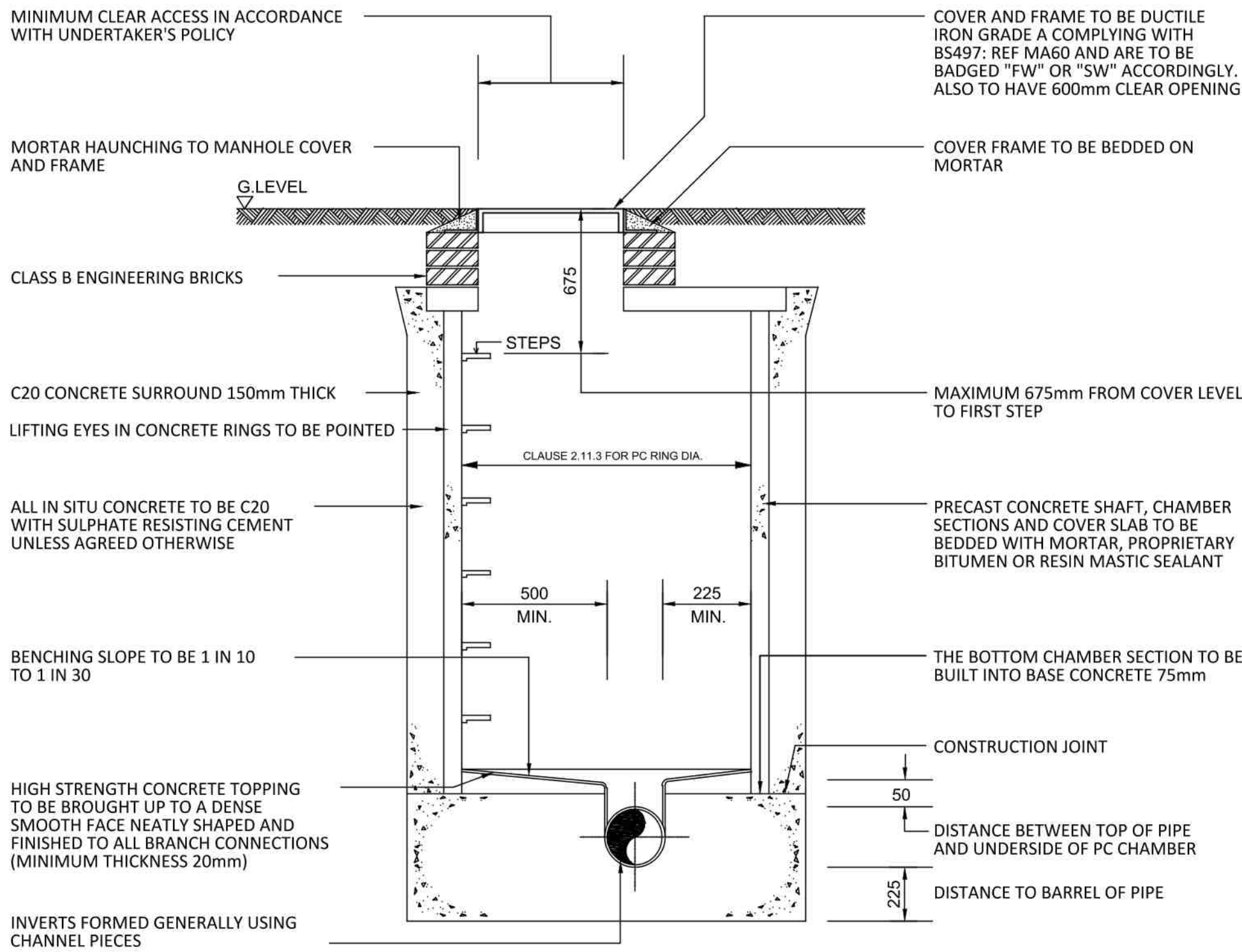




SECTION & PLAN-TYPICAL MANHOLE DETAIL TYPE A
(Depth to soffit 3.0m to 6.0m)
(Scale 1:20)



TYPICAL MANHOLE DETAIL TYPE E
(Depth to soffit 1.0m to 1.5m)
(Scale 1:20)



SECTION & PLAN-TYPICAL MANHOLE DETAIL TYPE B
(Depth to soffit 1.450m to 3.0m)
(Scale 1:20)

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.
The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Note:
Construction to be in accordance with Sewers for Adoption 6th Edition.

- STANDARD DRAINAGE NOTES:**
1. Adoptable pipes with cover less than 1200mm to be Ductile Iron.
 2. Adoptable Pipes with cover more than 1200mm to be Vitrified Clay.
 3. All pipe materials below adoptable Highways to be Vitrified Clay or Ductile iron or concrete.
 4. All pipe materials for private drainage outside of adopted Highways to be PVC.
 5. All gravity pipe runs to be tested to a standing head of 1500mm head of water above the invert at the head of the pipe run (but not exceeding 4000mm at the lower end)
 6. For details of bed and surround requirements refer to long-sections and standard details. In all other situations provide 150mm of 10mm single-sized rounded gravel bedding and surround.
 7. Except where specifically shown otherwise, pipes to be a minimum of 1200mm below roads/driveways and 900mm below gardens/fields.
 8. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a single appliance is connected, or 12m where a group of appliances is connected.
 9. Step-irons shall not be fitted in any chambers unless specified otherwise.
 10. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations
 11. Drains passing beneath buildings to have minimum 100mm granular fill or flexible filling around pipe. Where the pipe crown is within 300mm of the underside of the slab, pipe shall be encased in concrete integral with the slab.
 12. Drains passing through walls below ground level to have minimum 50mm clearance all round and opening in walls to be masked all round with rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete lintels to support wall construction above

The specification in all respects shall be in accordance with the current Development Road and Sustainable Drainage Specification and Construction publication in force in the country at the time of construction

The minimum longitudinal fall for highways without channel blocks shall be 1 in 150, and with channel blocks 1 in 250

General deterioration of the existing highway/footway/verges created through construction of the new Section 38 Development will be reinstated to the Development Road and Sustainable Drainage Specification and Construction at the developer's own cost at the agreement of the Inspecting Highway and Flood Authority Officer

No private surface water shall discharge onto the adoptable highway

No private structural features shall overhang the adoptable highway

No private retaining walls exceeding 1.37 metres shall be within 3.66 metres of the highway boundary

For Manholes Type E with depth less than 1.00m half length-concrete rings should be used

D	18.11.2019	S11	Hydro Break Manhole moved to 428.RS.825
C	29.05.2019	ZEK	Storm water drainage strategy, drainage details, manhole schedule, revised plans, pond size
B	09.04.2019	ZEK	Highways initial comments, Footpath, S278, S38, MH cover levels, Kerb details, Filter drain detail, construction details, Chart 1, Cables, added easements, bedding, Vehicle crossings, contours (Exceedance)
A	07.03.2019	ZEK	General amendments.
REVISION	DATE	DRAWN	DESCRIPTION

STUDIO 11
architecture

THE BOATHOUSE, HARBOUR SQUARE,
NENE PARADE, WISBECH,
CAMBRIDGESHIRE, PE13 3BH

T: 01945 467339
E: design@studio11architecture.co.uk
W: www.studio11architecture.co.uk

CLIENT Seagate Homes Ltd

PROJECT Residential development off Station Road, Surfleet

DRAWING Drainage Details-Adoptable (Sheet 1 of 2)

DRAWN	PROJECT DESIGNER	PROJECT DIRECTOR
ZEK	TBP	KB
DATE	SCALE	PAPER SIZE
01.02.2019	1:20	A1

DRAWING NUMBER 428.RS.820

Working in partnership with **Ralph Charman Associates & Eleven Consultants**