TYPICAL MANHOLE DETAIL - TYPE A1 Depth from cover level to soffit of pipe 3 m to 6 m with ladder and reducing slab Rigid material construction without concrete surround Cover complying with Clause E2.32. Mortar bedding and haunching 600 mm x 600 mm clear opening to cover and frame to Clause E6.7 Precast concrete slab complying

DN/ID to Clause B5.2.12

Minimum 1 course of Class B

engineering bricks

or precast concrete

cover frame seating rings

675 mm maximum to first

ladder rung from cover level

On manholes less than 1.5 m

diameter reducing slab not to

be used and PC rings to

Lifting eyes in concrete

Surface of benching and

base or a proprietary liner

Self-cleaning toe holes

exceeds 600 mm wide

to be provided where channel

Precast concrete base unit

Joint to be within chamber wall to permit satisfactory joint and subsequent movement

Minimum width of benching for landing area to be 450 mm

from the edge of the ladder

to the edge of the channel (See Clause B5.2.29)

Ladder complying with

Note: Opening to be located centrally over 900 mm shaft and offset

approximately 200 mm for 1200 mm diameter shaft with ladder

Clause E2.37

channel formed monolithically

with high-strength concrete

rings to be pointed

continue up to cover slab

Corbel slab to E2.30.2

900 mm minimum clear

Shaft diameter 1200 mm

Precast concrete slab complying

Precast concrete chamber sections

Chamber wall to be minimum 125 mm

complying with Clause E2.29

or plastomeric seals.

Benching slope to

150 mm to underside of channel

Minimum width of benching

to be 225 mm

See Figure B.13 and Clause E6.6.2

for rocker pipe details

jointed with mortar, elastomeric

access behind ladder

600 mm x 750 mm

cover slab opening

with E2.30

TYPICAL MANHOLE DETAIL - TYPE A2 Depth from cover level to soffit of pipe 3 m to 6 m with ladder Rigid material construction without concrete surround

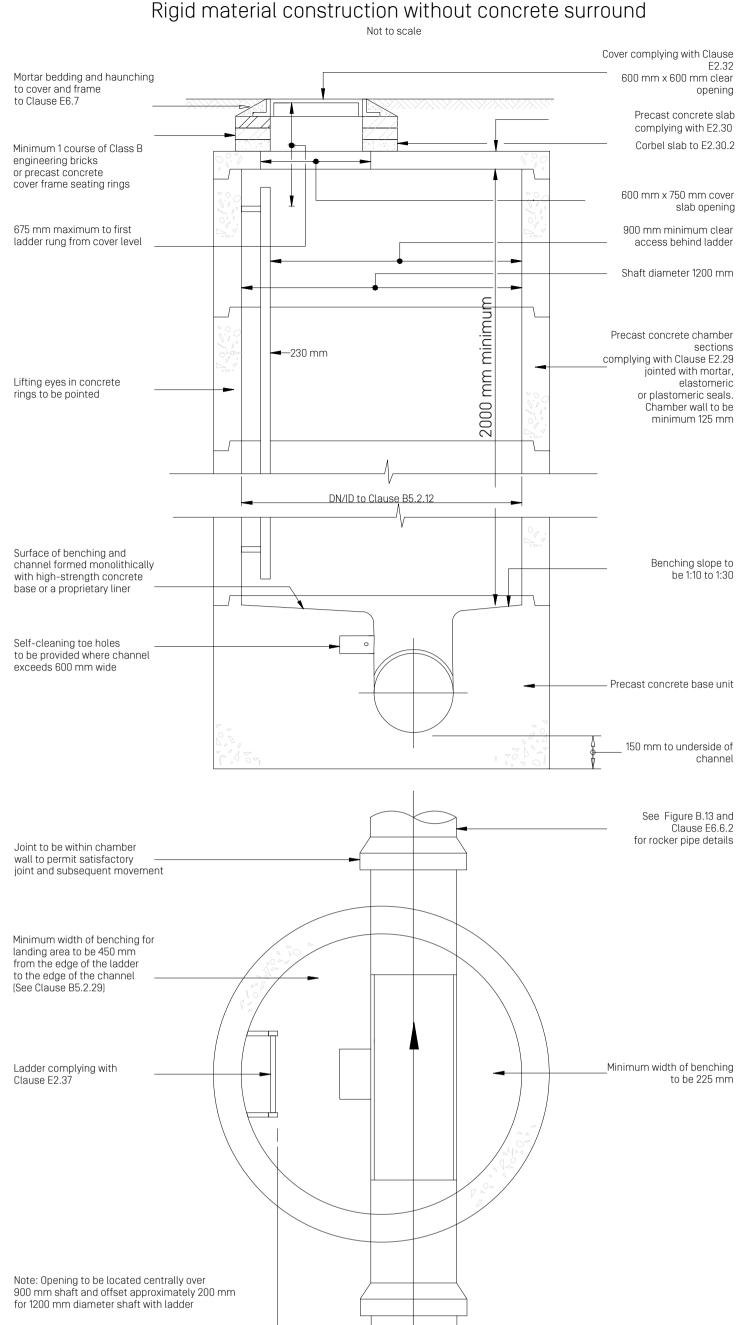
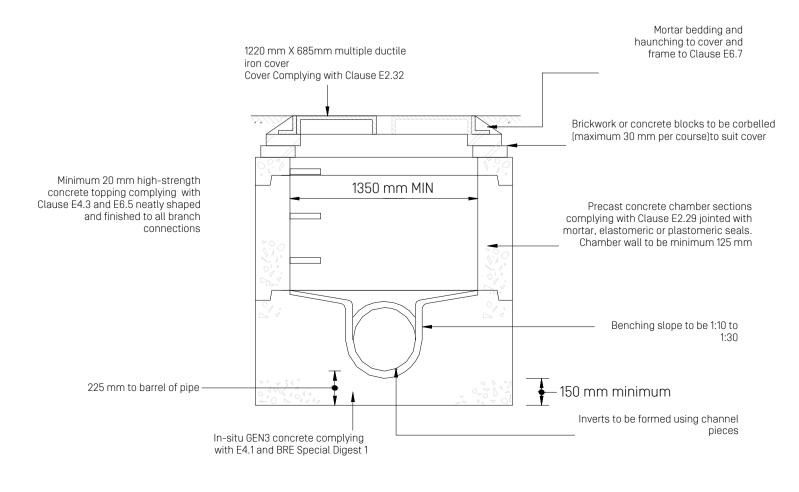


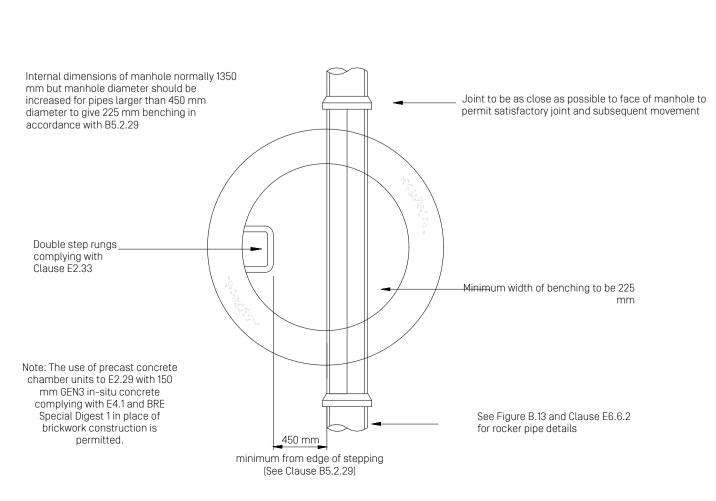
FIGURE B.14 TYPICAL MANHOLE DETAIL - TYPE C Depth from cover level to soffit of pipe less than 1.5 m maximum pipe size 450 mm diameter rigid material construction Not to scale

450 mm

minimum from

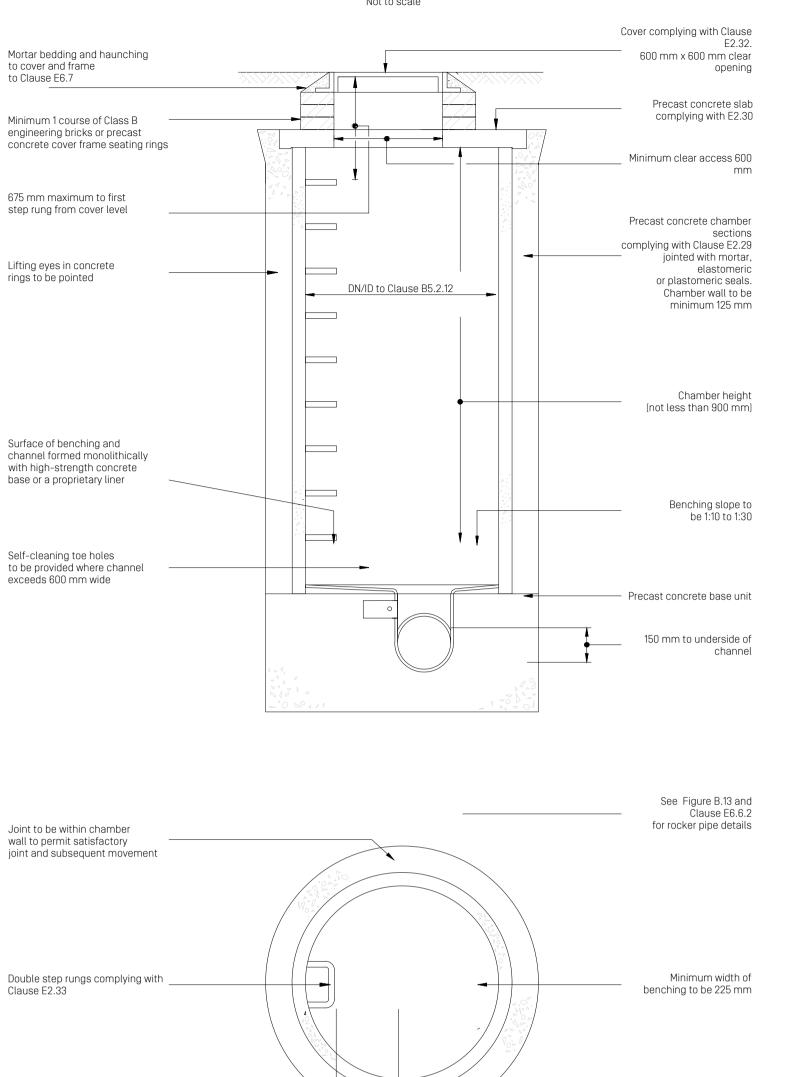
edge of stepping





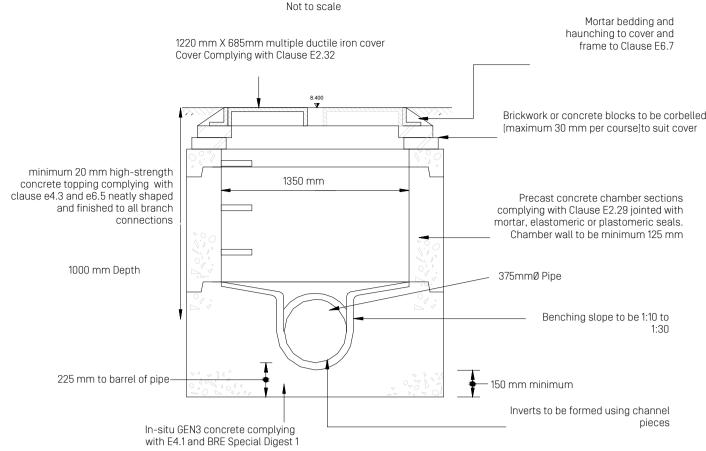
450 mm minimum from edge of stepping

TYPICAL MANHOLE DETAIL - TYPE B Depth from cover level to soffit of pipe 1.5 m to 3.0 m Rigid material construction without concrete surround



Depth from cover level to soffit of pipe less than 1.5 m Maximum pipe size 450 mm diameter Rigid material

construction



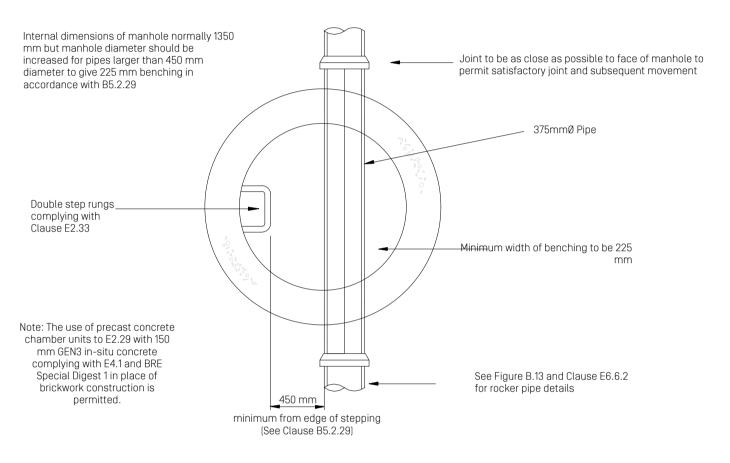


FIGURE B.14 TYPICAL MANHOLE DETAIL - TYPE C

Depth from cover level to soffit of pipe less than 1.5 m Maximum pipe size 450 mm diameter Rigid material construction

edge of stepping (See Clause B5.2.29)

Not to scale 1220 mm X 685mm multiple ductile iron Brickwork or concrete blocks to Mortar bedding and haunching to cover and be corbelled (maximum 30 mm Cover Complying with Clause E2.32 per course)to suit cover frame to Clause E6.7 Minimum 20 mm high-strength Class B engineering bricks complying with E2.39 and E6.1 not less than 200 concrete topping complying with mm thick or precast concrete Clause E4.3 and E6.5 neatly shaped and finished to all branch chamber sections with 150 mm concrete surround complying with Clause E2.29 900mm minimum Arch over pipe if constructed Benching slope to be 1:10 to 150 mm minimum 225 mm to barrel of pipe in-situ gen3 concrete complying with e4.1 and bre special digest 1 Inverts to be formed using channel Pipe joint with channel Internal dimensions of manhole normally 1200 to be located inside mm x 900 mm but manhole width should be face of manhole increased for pipes larger than 450 mm diameter to give 225 mm benching each side and the 1200 mm brickwork/masonry units corbelled down to suit 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.

Joint to be as close as possible to face of manhole to

permit satisfactory joint and subsequent movement

See Figure B.13 and Clause E6.6.2 for rocker pipe details

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Scale @ A1



Date Job Number By Checked By RB JRS July 2023 0304 Drawing No. C432

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