

DETAILS OF TOE HOLD

Concrete platform shall be level with top of pipe

PLAN ON STRAIGHT INVERT (without cover slab)

PLAN ON CURVED INVERT (without cover slab)

One or more pipe bends (if required)

MAXIMUM PIPE DIAMETER	CHAMBER INTERNAL DIAMETER	
	A	B
225	1200	1200
300	1200	1200
375	1200	1200
450	1200	1200
525	1200	1200
600	1200	1200
675	1350	1350
750	1350	1350
900	1500	1500
1050	2100	2100
1200	2100	2100

TABLE 1:

SECTION X-X

Integral in-situ 20N/20mm concrete base walls, benching and base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 150mm beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar or an in-situ 20N/20mm concrete base slab 300mm greater in diameter than chamber rings.

Greater Dublin Regional Code of Practice for Drainage Works

STANDARD MANHOLE DETAILS

TYPE J MANHOLE (precast)

Depth to invert 5m to 12m

Project: _____
 Title: _____
 Drawn: JDM
 Date: May 2006
 Scale: NOT TO SCALE
 Drawing No: 212712

DETAILS OF TOE HOLD

Concrete platform shall be level with top of pipe

PLAN ON STRAIGHT INVERT (without cover slab)

PLAN ON CURVED INVERT (without cover slab)

One or more pipe bends (if required)

MAXIMUM PIPE DIAMETER	CHAMBER INTERNAL DIAMETER	
	A	B
225	1200	1200
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675	1350	1350
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900	1500	1500
1050	2100	2100
1200	2100	2100

TABLE 1:

SECTION X-X

In-situ grade 20N/20mm concrete base walls, benching and base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 150mm beyond outer face of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar or an in-situ 20N/20mm concrete base slab 300mm greater in diameter than chamber rings.

Greater Dublin Regional Code of Practice for Drainage Works

STANDARD MANHOLE DETAILS

TYPE K MANHOLE (precast)

Depth to invert 5m to 8m

Project: _____
 Title: _____
 Drawn: JDM
 Date: May 2006
 Scale: NOT TO SCALE
 Drawing No: 212712

DETAILS OF TOE HOLD

Concrete Platform shall be level with top of pipe

PLAN ON STRAIGHT INVERT (without cover slab)

PLAN ON CURVED INVERT (without cover slab)

One or more pipe bends (if required)

MAXIMUM PIPE DIAMETER	CHAMBER INTERNAL DIAMETER	
	A	B
225	900	1500
1050	1200	2100

TABLE 1:

SECTION X-X

Integral in-situ 20N/20mm concrete base walls, benching and base slab with precast channel as shown or in-situ formed invert as alternative. Walls to extend 150mm beyond outer faces of chamber ring. Alternatively precast concrete chamber rings may be bedded in mortar or an in-situ 20N/20mm concrete base slab 300mm greater in diameter than chamber rings.

Greater Dublin Regional Code of Practice for Drainage Works

STANDARD MANHOLE DETAILS

TYPE L MANHOLE (precast)

Depth to invert 5m to 12m

Project: _____
 Title: _____
 Drawn: JDM
 Date: May 2006
 Scale: NOT TO SCALE
 Drawing No: 212712

FRONT ELEVATION

SIDE ELEVATION

SCREEN DETAIL

SCREEN TO BE CONSTRUCTED FROM 80mm x 40mm x 3mm RIB ATTACHED TO FRAMEWORK FORMED FROM 80mm x 80mm x 4mm S.S. ANGLES. WELDED CONSTRUCTION THROUGHOUT. FRAME FORM BOLT HOLES @ 300mm CENTRES TO ACCOMMODATE M20 FIXING BOLTS. ENTIRE ASSEMBLY TO BE HOT DIPPED GALVANIZED TO BS 729.

Greater Dublin Regional Code of Practice for Drainage Works

STANDARD MANHOLE DETAILS

TYPE M MANHOLE (precast)

Depth to invert 5m to 8m

Project: _____
 Title: _____
 Drawn: JDM
 Date: May 2006
 Scale: NOT TO SCALE
 Drawing No: 212712

TYPICAL ROAD GULLY

VICTORIA EGG BOX GRATING & FRAME

FALL

20 FLEXCELL JOINT

150 CONC TO MAN DRAIN

150 CONC BED & SURROUND

Max 3 COURSES OF ENGINEERING BRICKS

PRECAST ROAD GULLY WITH TRAP, RECORDING EYE & 150W OUTLET

150 CONCRETE BED & SURROUND

- Drawing Notes:**
- 225mm thick CI 20N/20mm Mass Concrete Foundations.
 - Preformed half circle channel pipes. The pipeline may, where practicable, be laid through the manhole and the crown cut out to half diameter, provided flexible joints are situated on each side no further than 600mm from the inner face of manhole wall.
 - Manhole construction.
 - For Surface Water Manholes high-density blocks to CI S10 of IS 20 Part 1:1987 or CI 30N/20mm in situ concrete.
 - Block work shall be bedded and jointed using mortar to IS406. Beds and vertical joints shall be completely filled with mortar as the blocks are laid.
 - Joints shall be flush pointed as the work proceeds.
 - All Four Manholes must be faced in solid Engineering Brick (min. class A or B), or in situ concrete for 1 metre above Benching Level.
 - Brick to be bonded to block work using English Garden Wall Bond.
 - Relieving arch formed by 216x103x65 solid engineering brick Class A or B as per drawing. Relieving arches used in brick or block work manholes extending over full thickness of wall. A Double Arch is to be formed for pipe diameters greater than 600mm.
 - Benching and pipe channel pipe around - CI 20/20 concrete.
 - Benching finished in 2:1 sand-cement mortar with a smooth towel finish, at 1 in 30 slope towards channel.
 - Standard rungs at 300mm vertically and galvanized to the latest version of BS 729 or equivalent. Note: Steps Irons are not acceptable.
 - 600mm square open in roof slab.
 - Precast R.C. Roof Slab shall be 200mm thick in Class 30N/20mm, with 40mm cover to steel.
 - 1 to 2 courses of solid engineering bricks CI B to IS 9:1985 set in 1:3 (cement and mortar).
 - Class D400 or E100 manhole cover and frame to IS EN 124. 150mm deep frame for roads and 100mm deep for footpaths and green areas. Non-rock design (paved highways, manufactured from spherulitic graphite cast iron (ductile cast iron), 600 x 600 (6000mm) clear opening, cover and frame spaced in 100mm or other approved material, cover to have a minimum mass of 14kg/m², frame bearing area shall be 80,000mm² min. Frames shall be designed to prevent covers falling into manhole. Frames shall be bedded on approved mortar to manufacturers instructions.
 - Short length pipe and joint external to manhole shall not exceed 600mm from the inner face of manhole wall.
 - Toe holes of 230mm minimum depth and galvanized steel safety railings to be provided in benching of sewers greater than 525mm diameter and depth to invert >3m for access to invert.
 - A safety chain is to be provided on pipes that exceed 450mm in diameter. Mild safety chain shall be 10mm nominal size grade M16 non-calibrated chain (type 1) complying with B.S.4942 Part 2 or equivalent.
 - When depth of manholes to invert is greater than 3.0m ladders shall be used instead of rungs to BS S.4211 or equivalent except that stringers should be not less than 65 x 125mm in section and rungs 25mm in diameter. Fixed ladders should meet the dimensional requirements of BS S.4211 or equivalent.
 - Ladder stringers should be adequately supported from the manhole wall at intervals of not more than 2.0m stringers should be bolted to chases to facilitate removal.
 - All ladders, rungs, handrails, safety chains etc shall be hot dip galvanized to BS S.729 or equivalent.
 - Pipe should be cut flush with the inside surface of the manhole wall so that the channel extends the full length of the manhole (except for precast manholes).
 - Position of 910 square open in intermediate roof slab.
 - All manholes shall be watertight to the satisfaction of the Engineer.
 - Formwork for Reinforced Concrete and Mass Concrete shall comply with Class 2, Section 6.2.7, BS 8110: Part 1:1997.
 - Finish to the top of slab shall comply with Type A, Section 6.2.7, BS 8110: Part 1:1997.
 - Plan dimensions of manholes are based on block work having a coordinating size of 450 x 225 x 100.
 - Manholes are designed to BS 8005 and wall thickness to BS 535 block work design code taking granular fill pressure and H.B. surcharge.
 - Reinforcement to slabs to Engineers details.
 - For manholes >3m depth to invert use 30N/20mm in situ concrete. Reinforcing mesh ref. A393 @ 6.16kg/m to be fixed at mid point of wall. Additional reinforcement to be supplied over pipe crown.
 - For Pre cast Manholes, Chamber walls and cover slab to be constructed to IS EN 1917 and IS 420:2004
 - Manhole Openings to be situated furthest from the nearest Carriageway. Manhole steps / access to be positioned to allow viewing of crossing traffic.
 - For bedding and sealing of Chamber rings, the top ring (to Pre cast cover slab) and bottom ring to be bedded with cement mortar. For intermediate rings, joints to be sealed with approved pre-formed jointing strip.
 - Pre cast Manholes to be surrounded with a minimum of 150mm thick Grade C20/40 concrete.
- General Notes**
- All brick to be Solid Engineering Brick Class A or B.
 - For pipe diameter >750mm use manhole with internal diameter size = pipe size + 1metre + 300mm.
 - Distance from the top rung of the ladder to ground level must be a maximum of 500mm.

PL1 24-02-21 BK DKS ESD/0 FOR PLANNING Date: 26/08/22 By: Chk. Pvk.	Job Title: PROPOSED APARTMENTS AT NEILSTOWN ROAD DUBLIN 22	Drawing Title: SW MANHOLES, GULLIES, HYDROBRAKE MH, HEADWALL, AND BACKDROP DETAILS 3 OF 3	Drawing No: D1691-1	Date: 26/08/22	Scale: NTS	Project: PLANNING	Job No. D11-2	Rev. No. PL1	Checked: DGS Approved: NTS Date: 26/08/22	Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE M MANHOLE (precast) Depth to invert 5m to 8m Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE L MANHOLE (precast) Depth to invert 5m to 12m Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE K MANHOLE (precast) Depth to invert 5m to 8m Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE J MANHOLE (precast) Depth to invert 5m to 12m Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE I MANHOLE (precast) Depth to invert 5m to 12m Drawn: JDM Date: May 2006 Scale: NOT TO SCALE Drawing No: 212712	Project: STANDARD MANHOLE DETAILS Title: TYPE H MANHOLE (precast) Depth to invert 5m to 8m Drawn: JDM 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