Drainage and Service Ducts

SD/5/13

Notes

- 1. Ladder to BS 4211:2005 +A1.
- Foundation slab & surround to be ST3 concrete.
- 3. Precast concrete sections to BS 5911 Part 1 min, wall thickness 60mm.
- 4. Cover slab to BS 5911 Part 1 opening positioned at upstream end of M.H.
- 5. Engineering bricks to be Class B to BS EN 772-1, BS EN 772-3 & BS EN 772-7.
- 6. Mortar bed to be Type (i) mortar to Clause 2404.
- Circular cover and frame uncoated iron kite marked or equivalent to BS EN 124.
- Chambers with outgoing pipes greater than 700mm dia. shall be fitted with removable safety chains.
- Pipes entering manholes shall have a flexible joint within 600mm of the inside face of the manhole.
- 10. Where cover is to be trafficked or laid against within 24 hours of frame being placed in position, then a suitable ultra rapid hardening mortar and concrete (Monoset 241 or similar) shall be used to bed cover and frame.

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Precast Concrete Catchpit

Design	Design Group		Concrete	Cover &		
Manhole	ole Catchpit		Surround	frame	Pipe dia. up to	Location
M10		500 500	130	C250	700	Verges
M11		500	130	C250	700	Access or light traffic
M12		800	130	D400	700	Heavy traffic
M13	11//17:3(: 1		130	C250	900	Verges
M14		800 800	130	C250	900	Access or light traffic
M15	M15C	000	150	D400	900	Heavy traffic

Max. 675mm from cover level

Cover and frame as

specified hedded on

Class B Engineering

2 courses min.

Precast concrete shaft and

chamber sections

brickwork 4 courses max.

ST3 Concrete

Where benching is less than 450mm

wide slope shall be

-wide slope shall be

1in 12. Where more than 450mm

1 in 36

225 to invert

-surround 150mm thick

mortar

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2000

225

min.

to first ladder rung

Size Variable

with Design Group

Precast Concrete Manhole

Mortan

haunching to mh

cover and frame.

Heavy duty reinforced concrete

cover slab (BS5911) bedded with

Heavy duty reinforced concrete

Ladder (BS4211) min. distance

Grano. concrete benching to be brought up to a dense smooth face,

neatly shaped and finished to all

branch connections (for screed

thickness SE CP204, Part 2)

Top holes to be provided in

channel of sewer greater than

450mm dia, for access to invert-

ST3 Concreté

(a taper may be used as an

mortar or mastic sealant-

reducing slab

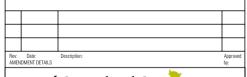
alternative)

from wall 200mm

This is a typical detail and may require conversion to a full scheme specific drawing.

NOT TO SCALE

Disclaimer: Before making use of this detail, any designer or third party must ensure that it satisfies all requirements of the scheme to which it is being applied. Lincolnshire County Council accept no responsibility for third party use of this Standard Detail.





Checked by:	GP	Approved by:	SB	
ISSI	JED	12/05/17		

Circular Precast Concrete Manhole Type A Catchpit (pipes over 450mm) Water Authorities Association Standard

SD/5/13

Revision Number

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