Notes

1. Foundation slab to be ST3 concrete.

2. Benching and surround to be ST3 concrete.

3. Bricks to be Engineering Class B to BS 3921 in English bond.

4. Step irons to BS 5911 Part 1 and BS1247 when invert exceeds 900mm below cover.

5. Precast sections to BS 5911 Part 1 min. wall thickness 102mm

6. Mortar bed to be Class 1 mortar to Clause 2404.

7. Circular cover and frame uncoated iron, Kite marked or equivalent to BS EN 124 (for type see opposite).

8. Rectangular precast concrete units as 'Mono Concrete' or similar approved type.

9. 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.

Manhole (left diagram)

Frame and cover
Clear opening 600
Mortar bed
Engineering bricks
Cover slab
Step irons at 300 intervals
ST3 concrete surround 150 thick
Benching
152
2135 when using shaft rings
102
150   813   150

Manhole

Catchpit Showing Shaft Rings (right diagram)

Mortar bed
150 surround
Insitu ST3 concrete in verge
125 (Type M40 75 deep)
Step irons at 300 intervals
outfall
152
2135 when using shaft rings
150
150
150   1270   150

Catchpit Showing Shaft Rings

Design Group		shaft rings	conc. surround	course of bricks below frame	cover & frame frame grade	Location
manhole	catchpit					
M37	M37C	without shaft	-	1	C250	Verges
M38	M38C	without shaft	75	2	D400	Access & light traffic
M39	M39C	without shaft	150	2	D400	Heavy traffic
M40	M40C	with shaft	-	1	C250	Verges
M41	M41C	with shaft	-	2	D400	Access & light traffic
M42	M42C	with shaft	-	2	D400	Heavy traffic

Rev:	Date:	Description:	Approved by:
AMENDMENT DETAILS			

Lincolnshire COUNTY COUNCIL
Working for a better future

Checked by:	GP	Approved by:	SB
ISSUED		12/05/17	

Rectangular Precast Concrete Manhole
1270 x 813 (max pipe 750mmØ)

SD/5/15
Standard Detail Number   Revision Number

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

NOT TO SCALE
(all units in millimetres)