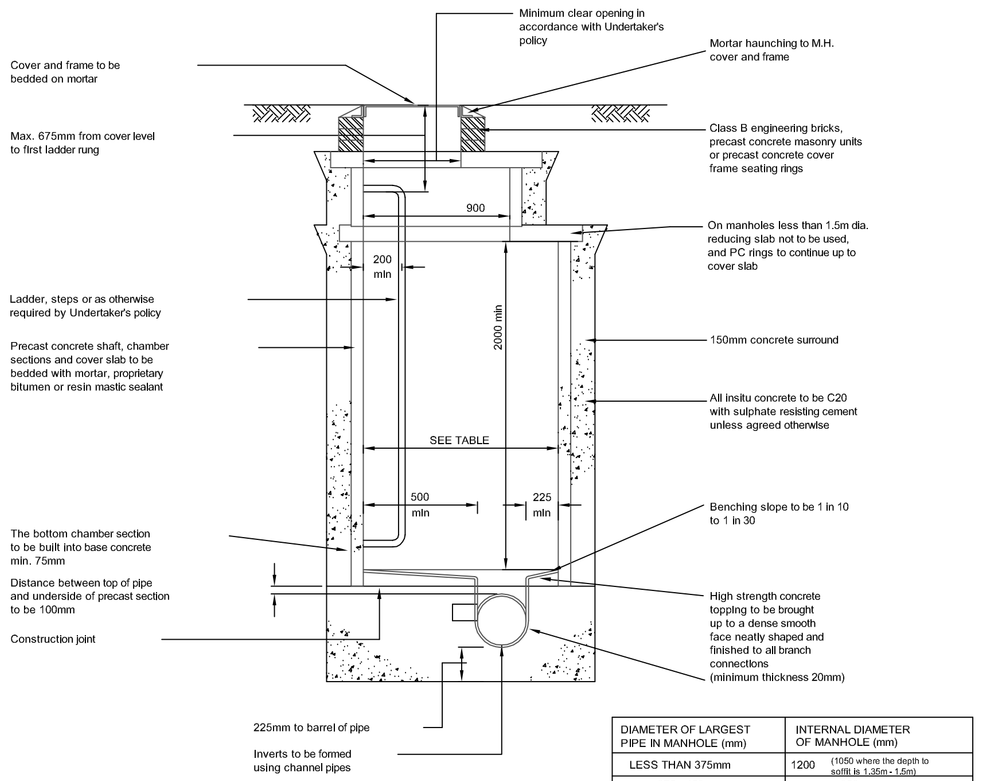
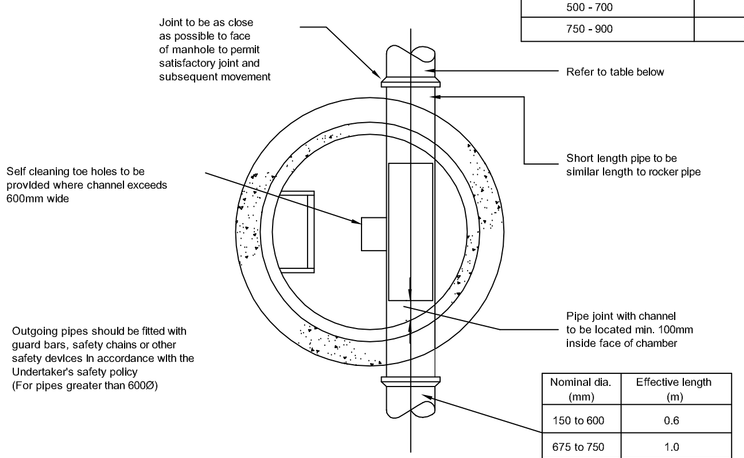


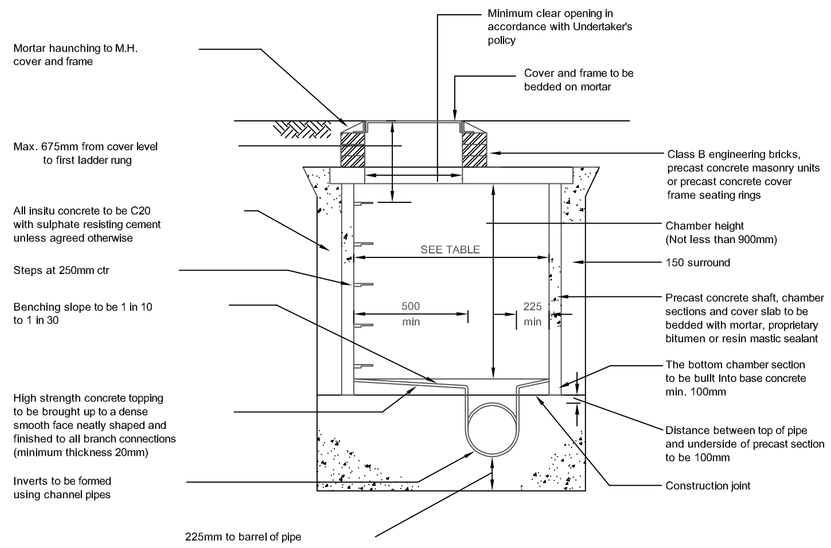
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375mm	1200 (1050 where the depth to soffit is 1.35m - 1.5m)
375 - 450	1350
500 - 700	1500
750 - 900	1800



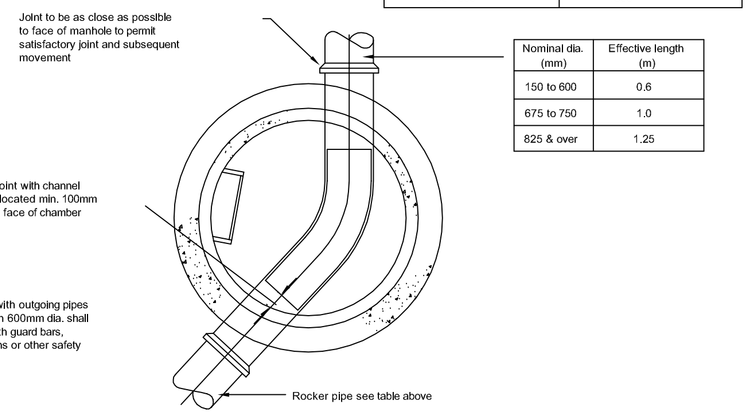
Nominal dia. (mm)	Effective length (m)
150 to 600	0.6
675 to 750	1.0
825 & over	1.25

TYPICAL MANHOLE DETAIL TYPE A

DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 3m TO 6m



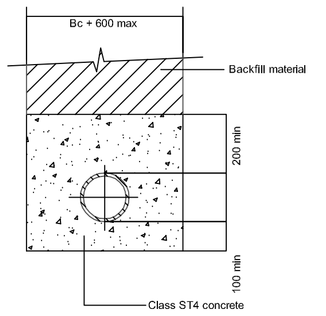
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375mm	1200 (1050 where the depth to soffit is 1.35m - 1.5m)
375 - 450	1350
500 - 700	1500
750 - 900	1800



Nominal dia. (mm)	Effective length (m)
150 to 600	0.6
675 to 750	1.0
825 & over	1.25

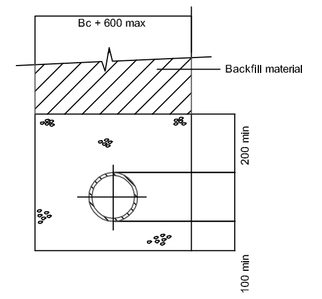
TYPICAL MANHOLE DETAIL TYPE B

MAX. DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 3.0m



Bc = Outside diameter

CLASS Z PLAIN CONCRETE SURROUND



Y value (below pipe)
Hard spots/irregular trench bottom Bc/4 (200mm min)
Even trench bottom Bc/6 (100mm min)

Bc = Outside diameter

CLASS S GRANULAR BED &SURROUND

Specifications for Site Development Works Shall be in Accordance with the "Recomendations for Site Development Works for Housing Areas" Published by the Department of the Environment, 1998.

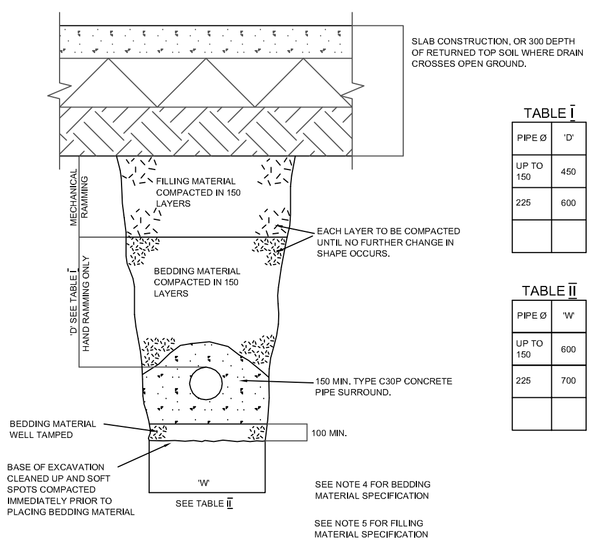


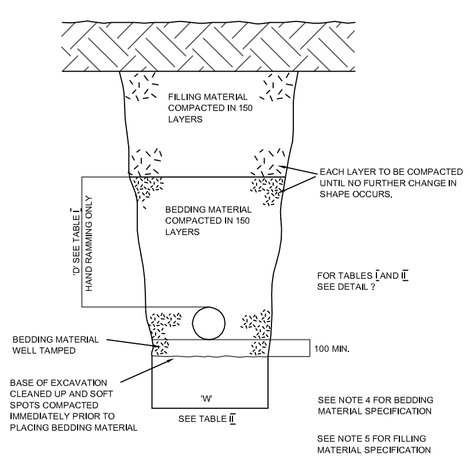
TABLE I

PIPE Ø	'D'
UP TO 150	450
225	600

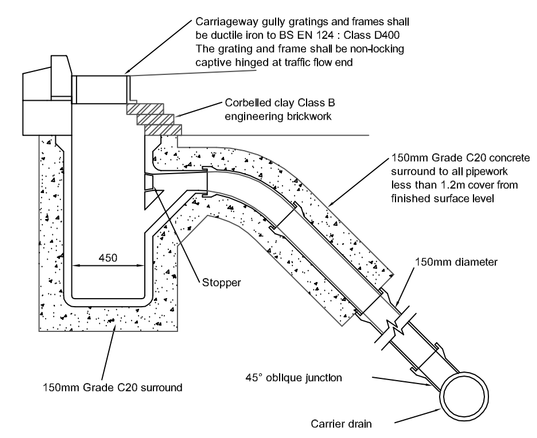
TABLE II

PIPE Ø	'W'
UP TO 150	600
225	700

BEDDING FOR ALL DRAINS UNDER BUILDINGS OR DRAINS NOT LOCATED UNDER BUILDINGS BUT WITHIN 1200mm OF GROUND OR ROAD LEVEL.



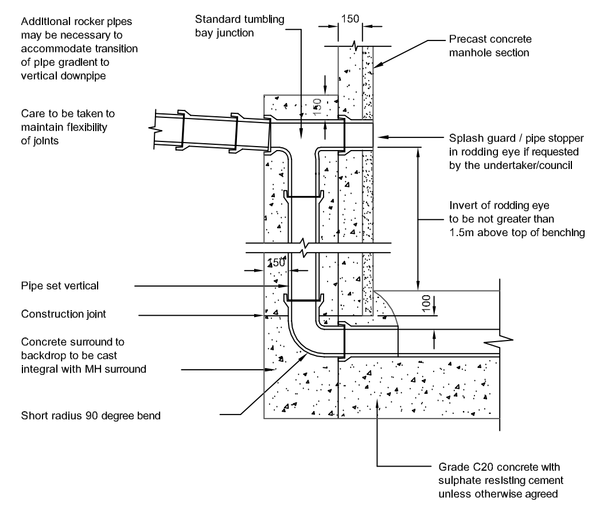
BEDDING FOR DRAINS NOT LOCATED UNDER BUILDINGS AND AND MORE THAN 1200mm BELOW GROUND OR ROAD LEVEL.



NOTES

1. Gully pot to be of 100 litres capacity
2. Maximum trench width for 150mm gully lead is 600mm
3. Number of bends may vary due to site differences
4. Concrete surround to pipes shall always finish at a joint

GULLY DETAIL



Note : Where the drop is not excessive a 45° drop pipe may be used

TYPICAL VERTICAL BACKDROP DETAIL

Rev:	Description:	Date:	Drawn:	Checked:
A	Foreshore Application	19/10/12	SMC	AC

Cronin Millar Consulting Engineers
Civil Marine Structural Environmental

Ivy Fort House
5 Cathedral Place
Cobh
Co. Cork

Ph: 021 4815441
email: cork@cmce.ie
website: www.cmce.ie

Client: Monkstown Bay Marina Company Ltd.

Project: Monkstown Marina Phase II Development

Title: Drainage Details

Scale:	Sheet Size:	Date:
Varies	A1	19/10/2012

Drawn By:	Checked By:	Drawing No:	Revision:
SMC	AC	C285/II/F/7	A