- 1. These notes are to be read in conjunction with Drg Nos SD/5/2.
- 2. All dimensions are in millimetres.
- BC = Outside diameter

GENERAL NOTES

 Minimum trench width X = BC + 300mm or 600mm whichever is the greater for drains not exceeding 1.5m depth.

X = BC + 450mm for drains exceeding 1.5m depth.

- 5. The bedding or filter material up to the level 300mm above the top of the pipe barrel shall be placed in layers not more than 150mm thickness and and shall be carefully compacted for the full width of the trench with hand tools. The remaining filter material shall be deposited in layers each not exceeding 225mm loose depth and each compacted in accordance with Table 6/4 Method 3.
- 6. Dimension Y: (a) In rock or mixed soils containing rock bands, boulders, large flints or stones or other irregular hard spots.

 Y = 200mm minimum under barrels and sockets.
 - (b) In soils that permit an even trench bottom Y = 100mm minimum under barrels and 50mm under sockets.
- 7. Pipes to be laid with slots or perforations upwards where a concrete bed is used.
- 8. For narrow filter drains required to be curved < 40m radius some pipe materials will be unsuitable as the pipe lengths are too long.
- 9. Trench sheeting should be removed as the bed surround and backfill are placed to ensure the trench is filled and compacted to the full width.
- For UPVC pipe the recommendations in the Code of Practice for Plastic Pipework BS 5955 Part 6 are to be adhered to unless superseded by these Standard Drawings.

MATERIALS

11. Pipes for filter drains shall be to clause 501 unless superseded by the following:—

Concrete pipes to BS 5911
Clay and perforated clay pipes to BS 65
Asbestos cement pipes to EN 588-1:1997
Porous concrete pipes to BS 5911
Perforated UPVC 100 - 160mm nominal diameter pipes to BS 4660
Perforated UPVC 160 - 400mm nominal diameter pipes to BS 5481

NOTES:

12. Pipe bedding and 20mm clean filter material shall be a granular material having a grading within the limits of Table 1 below.

TABLE 1

BS SIEVE SIZE	PERCENTAGE BY WEIGHT PASSING						
	20mm CLEAN	TYPE B	PIPE BEDDING				
			√ 140 dia	140-400 dia	>>400 dia		
63mm	_	100	_	1	_		
37.5mm	100	85-100	_	-	100		
20mm	85-100	0-25	_	100	85-100		
14mm	_	_	100	85-100	_		
10mm	0-25	0-5	85-100	0-50	0-25		
5mm	0-5 -		0-25	0-10	0-10		
2.36mm	_	_	0-5	_	_		



©Crown copyright 2007. All rights reserved. Use of this image is limited to viewing on-line and printing one copy. Leicestershire County Council 100019271.

Leicestershire County Council

TRANSPORTATION AND

WASTE MANAGEMENT

TITLE:

STANDARD DRAWING
GROUP D1 FILTER DRAINS

DRAINAGE NOTES

DRAWING NUMBER	DATE				
SD/5/1	SEPTEMBER 2002				
AUTOCAD REF				· '	
		SCALE		·	
K:\GENERAL\D9997STDDRG\SD51		NOT TO SCALE		·	
			Rev	Date	Notes on Revision