

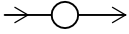
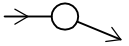
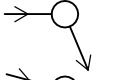

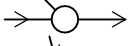
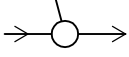
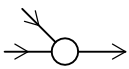
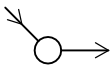
Manhole description	Diagram	MIN. drop 'h' mm
Same diameters		
Straight through		20
Angle up to 45°		30
Angle from 45° – 90°		40
Branch at angle less than 30°		30
Branch at angle 30° – 60°		50
Branch at angle 60° – 90°		80
Main and branch vary in diameter		
Main DIA.		Branch DIA.
300		225
300		150
300		100
225		150
225		100
150		100
80		
150		
200		
80		
130		
50		
House drains entering end manholes		
150 House drain		30
100 House drain		80
House drain MIN. grades		MIN. grades
150 House drain		1:80
100 House drain		1:60

TABLE 1 : CONCRETE MANHOLE BASES

Note: Change of flow direction greater than 90° requires manufacturer’s design certification.

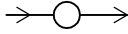
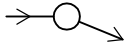

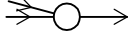
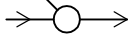
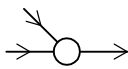
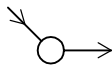
Manhole description	Diagram	MIN. drop 'h' mm
Same diameters		
Straight through		20
Deflection up to 40°		30
Deflection between 40°– 90°		40
Branch at angle less than 40°		30
Branch at angle 40° – 90°		40
Main and branch vary in diameter		
Main DIA.		Branch DIA.
300		225
300		150
300		100
225		150
225		100
150		100
80		
150		
200		
80		
130		
50		
House drains entering end manholes		
150 House drain		30
100 House drain		80
House drain MIN. grades		MIN. grades
150 House drain		1:80
100 House drain		1:60

TABLE 2 : GLASS REINFORCED PLASTIC MANHOLE BASES

REVISIONS		APPROVED	RPEQ	DATE	<div>DISCLAIMER.</div> <div>The authors and sponsoring organisations shall have no liability or responsibility to the user or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused, directly or indirectly, by the adoption and use of these Standard Drawings including, but not limited to, any interruption of service, loss of business or anticipatory profits, of consequential damages resulting from the use of these Standard Drawings. Persons must not rely on these Standard Drawings as the equivalent of, or a substitute for, project-specific design and assessment by an appropriately qualified professional.</div>	<div>Capricorn Municipal Development Guidelines</div> <div>Incorporating: Rockhampton City Council Livingstone Shire Council Fitzroy Shire Council Mount Morgan Shire Council</div>	<div>STANDARD SEWER MANHOLE BASE DETAILS</div> <div>Livingstone Shire Council</div>	STANDARD				
								STANDARD DRAWING				
								SD-S-027-LSC				
B	LSC ALTERATIONS	D.T.	5425	24/03/06								
A	ORIGINAL ISSUE											