











































Tees						
	(SOC/SOC/SOC)	(FL/FL/FL)	(SOC/SOC/FL)	(SOC/SP/FL)	(SP/SP/SP)	(SP/SP/FL)
Tapers						
	(SOC/SOC)	(concentric)(FL/FL)	(eccentric)(FL/FL)	(SP/FL)	(SP/SP)	
Bends	11 ¹ / ₄					
		(SOC/SOC)	(FL/FL)			
	45					
		(SOC/SOC)	(FL/FL)			
Bends	22 ¹ / ₂					
		(SOC/SOC)	(FL/FL)			
Bends	90					
		(SOC/SOC)	(FL/FL)			
Connectors						
	(SOC/SOC)	(FL/SOC)	(FL/SP)			
End Caps						
	End Cap	Blank Flange				
Riser/Spacer						
	(FL/FL)					
Fittings	FH		Prop.			
			Exist.			
		(SOC/SOC)				
	SV		Open		Open	
			Closed		Closed	
		(SOC/SOC)		(FL/FL)		
Fittings	ScV		Open		Open	
			Closed		Closed	
		(SOC/SOC)		(FL/FL)		
Fittings	AV		Open		Open	
			Closed		Closed	
		(SOC/SOC)		(FL/FL)		
Gibault						
Wyes						
	(SOC/SOC/SOC)	(FL/FL/FL)				

RECYCLED EFFLUENT MAIN CONSTRUCTION NOTES

1. All recycled water mains to be on 1.8m alignment unless otherwise noted
2. Recycled water mains shall be RRJ to AS1477 Series 2 (lilac colour) Material Class 450. uPVC Class 12, mPVC Class 16 or oPVC Class 16.
3. Minimum cover to recycled water mains to be in accordance with D11 Table D11.10.01.
4. Sluice Valves are to be clockwise closing (GRC to be anticlockwise closing).
5. Place detectable marker tape in trench approx. 300 mm above pipe.

WATER CONSTRUCTION NOTES

1. All water mains to be on 2.5m alignment unless otherwise noted.
2. Watermains to be in accordance with D11.
3. Minimum cover to Watermains shall be in accordance with D11 Table D11.10.01.
4. Concrete thrust blocks to be constructed in accordance with Std. Dwg. CMDG-W-041.
5. Water Sluice Valves are to be anti-clockwise closing.
6. Hydrant box as per Std. Dwg. CMDG-W-061 to be provided with 0.6m turf surround.
Hydrant markers to be blue rrpm's (stimsonite or equiv) positioned offset on crown of road & fixed in accordance with manufacturers recommendations. Refer Std. Dwg. CMDG-W-062.
7. Hydrants & valves to be installed in accordance with Std. Dwg. CMDG-W-060.
8. Place detectable marker tape in trench approx. 300 mm above pipe.

WATER RISING MAINS
(PRESSURE)

DIRECTION	MIN GRADIENT
Up	0.200% (1 in 500)
Down	0.400% (1 in 250)

HORIZONTAL BENDS

CHANGE OF ANGLE	STD FITTINGS
78.75°	45° + 22.5° + 11.25° Bend
67.5°	45° + 22.5° Bend
56.25°	45° + 11.25° Bend
45°	45° Bend
33.75°	22.5° Bend + 11.25° Bend
22.5°	22.5° Bend
11.25°	11.25° Bend
6°	Connector
1°	Pipe Joint

VERTICAL BENDS

ANGLE	CHANGE OF GRADIENT	FITTING
45°	100.00%	Std Bend
22.5°	41.40%	Std Bend
11.25°	19.90%	Std Bend
6°	10.50%	Std Connector
3°	5.20%	All M&F Joints

APPLICABILITY TABLE

Council	BSC	CHRC	GRC	IRC	LSC	MRC	RRC
Applicable	Yes	Yes	Yes	Yes	Yes	Yes	Yes

REVISIONS		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>	Capricorn Municipal Development Guidelines		WATERMAIN INFORMATION FITTING AND BEND SYMBOLS, PIPE INFORMATION AND GENERAL NOTES		WATER	
E	STYLE & NOTE CHANGED, SEPARATED FROM S-005	03/2024						STANDARD DRAWING	A3
D	IRC ADDED	11/2016						CMDG-W-005	
C	GRC AND LSC ADDED	09/2014							
B	FALL THROUGH MANHOLE TABLE AMENDED	02/2013							
A	POST AMALGAMATION REVIEW								
								REV.	A B C D E