





<u>SIDE DRAIN OUTLET</u> (SINGLE GULLY ONLY)

NOTES

- 1. THE SIDE DRAIN DEPTH TO BE A MIN. OF 300mm BELOW THE SUBGRADE. PROVIDE A MIN. 300 COVER TO PIPE.
- 2. SIDE DRAINS SHALL OUTLET TO A GULLY, PREFERABLY, OR STORMWATER PIPE.
- 3. 100¢ CORRUGATED POLYETHYLENE (PE) PIPE AND FITTINGS TO BE CLASS 400 TO AS 2439.
- 4. USE STANDARD FITTINGS FOR ALL CONNECTIONS INCLUDING THE JOINING OF LENGTHS OF CORRUGATED PIPE.
- 5. DRAINAGE PIPES TO BE LAID TO A MINIMUM GRADE OF 1 in 250 FOR PIPE DRAINS AND TO A MINIMUM GRADE OF 1 in 100 FOR SCREENING ONLY DRAINS.
- 6. SCREENING SURROUND AND THE BACKFILL PAVEMENT MATERIAL MUST BE ADEQUATELY COMPACTED TO PROVIDE FLEXIBLE PIPE SUPPORT AS REQUIRED IN ACCORDANCE WITH AS 2566.
- 7. SUPPLY AND INSTALL PANEL DRAINS, IF USED, TO THE MANUFACTURERS SPECIFICATIONS.
- 8. GRADING OF SINGLE SIZE SCREENING MATERIALS.

S. SIEVE SIZE(mm)	<pre>%PASSING (% BY WEIGHT)</pre>		
, ,	5mm NOMINAL SIZE	10mm NOMINAL SIZE	
13.2	_	100	
9.50	_	85-100	
6.70	100	_	
4.75	85-100	0-20	
2.36	0-40	0-5	
0.075	0-2	0-2	

- 9. UNLESS APPROVED OTHERWISE BY THE ENGINEERING OFFICER DEVELOPMENT AND REGULATORY SERVICES, PROVIDE SIDE DRAINS ON BOTH SIDES OF THE ROAD UNDER THE KERB AND CHANNEL.
- 10. MITRE DRAINS (SIMILAR CONSTRUCTION TO SIDE DRAINS) ARE REQUIRED ACROSS THE ROAD TO INTERCEPT SEEPAGE THAT DOES NOT FLOW DIRECTLY TO THE SIDE DRAIN.
- 11. WHERE SEEPAGE APPEARS IN THE CENTRE OF THE PAVEMENT, PROVIDE 75 THICK FULL WIDTH BLANKET COURSE (SCREENINGS OR CLASS 1 CRUSHED ROCK) TO INTERCEPT SEEPAGE AND DRAIN TO THE ADJACENT SIDE DRAINS. PROVIDE BCC TYPE 3 GEOTEXTILE FABRIC AT THE SUBGRADE/BLANKET COURSE INTERFACE. BLANKET COURSE IS GENERALLY REQUIRED UNDERNEATH FULL DEPTH ASPHALT PAVEMENTS TO AVOID BLOCKAGE OF SEEPAGE FLOW.
- 12. SUB SURFACE DRAINAGE REQUIREMENTS (INCLUDING TYPE, LOCATION, SPACING AND ORIENTATION) MUST BE DETERMINED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER.
- 13. DIMENSIONS IN MILLIMETRES (UNO).

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
Α	ORIGINAL ISSUE	April '01	May '01	June '01
В	Heading Correction Made (Types of Side Drains), Existing K&C and Median Treatment Modified.	DJL 12/04	BH 14/02/05	PC 03/03/05

DESIGN AUTHORISED FOR ISSUE B. BALL SIGNATURE ON ORIGINAL	DESIGN	STD DWG GROUP	DATE	April '01
DATED 29/6/01	DRAWN	CITY DESIGN	DATE	April '01
MANAGER ASSET SUPPORT - R.P.E.Q: 3 8 5 2 DESIGN APPROVED	CHECKED	M. STEER	DATE	May '01
B. HANSEN SIGNATURE ON ORIGINAL DATED 27/6/01	DRAWING FILENAME	FILENAME		
PRINCIPAL ASSET OFFICER ROADS & DRAINAGE	ASSOCIATED PLANS	SUPERSEDES WS 17-1		



BRISBANE CITY COUNCIL - URBAN MANAGEMENT DIVISION

SIDE DRAINS AND MITRE DRAINS

)	SCALE NOT TO SCALE		
	UMS 261		
J	ORIGINAL SIZE	А3	REVISION B