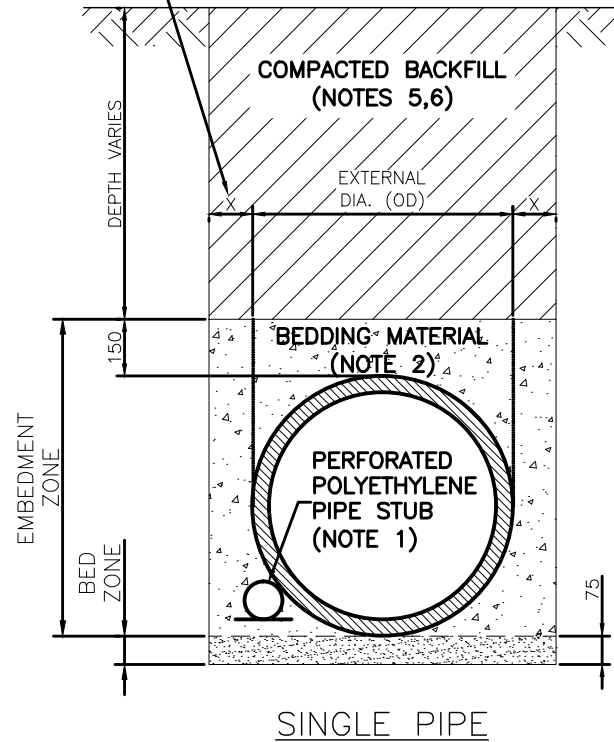
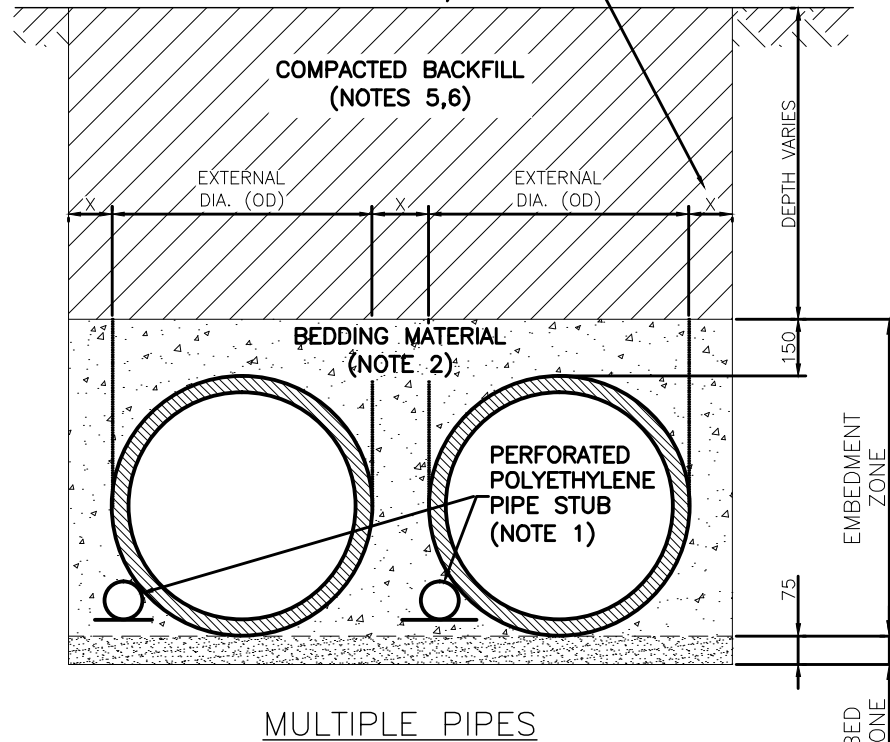


X=GREATER OF
OD/6 OR 150



SINGLE PIPE

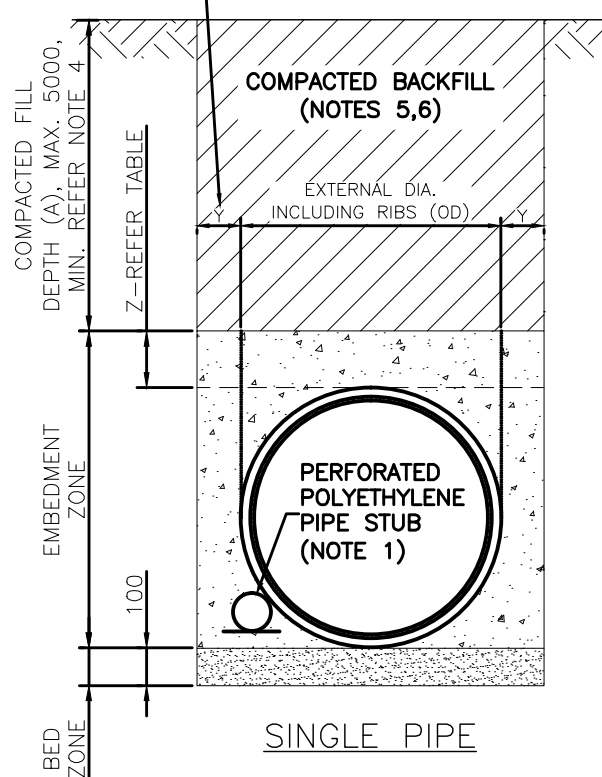
X=GREATER OF
OD/6 OR 150



MULTIPLE PIPES

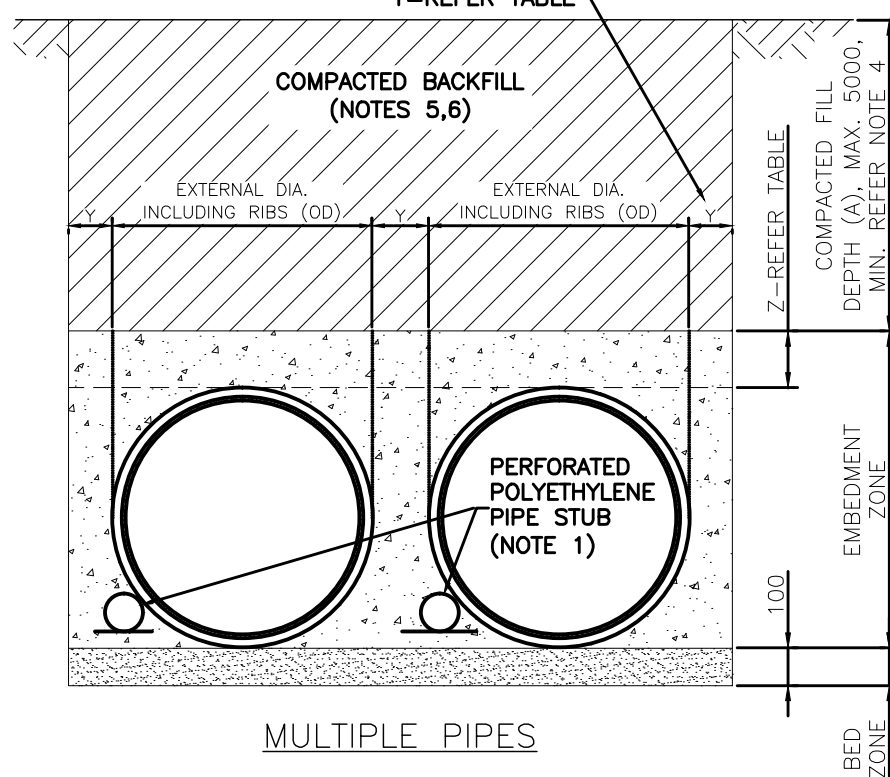
RIGID PIPE

Y=REFER TABLE



SINGLE PIPE

Y=REFER TABLE



MULTIPLE PIPES

FLEXIBLE PIPE

NOTES:

- UNLESS DIRECTED OTHERWISE, PROVIDE PIPE STUB TO DEWATER DRAINAGE TRENCH. STUB TO BE 1000mm LONG x 100mm DIA. CORRUGATED POLYETHYLENE PIPE CLASS 400 TO AS 2439 (WITH END CAP) INSTALLED ON THE UPSTREAM FACE OF MANHOLES.
- BED ZONE MATERIAL: 5mm OR 10mm SCREENINGS, OR ALTERNATIVELY WASHED SCREENED BEDDING SAND TO GRADING SPECIFIED BELOW TO BED ZONE.

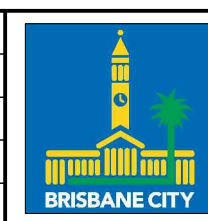
SIEVE SIZE(mm)	PASSING (% BY WEIGHT)
9.5	100
4.75	95-100
2.36	75-90
1.18	15-25
0.60	10-20
0.30	5-10
0.15	0-5
- EMBEDMENT ZONE MATERIAL: 5mm OR 10mm SCREENINGS.
- FOR FLEXIBLE PIPES, DEPTH OF COMPACTED BACKFILL (A) VARIES:
 - MINIMUM 600 TO UNDERSIDE OF CONSTRUCTED PAVEMENT OR;
 - MINIMUM 750 TO FINISHED SURFACE LEVEL (WHICHEVER IS GREATER).
- COMPACTED BACKFILL UNDER ROADS (RIGID AND FLEXIBLE PIPES): GRANULAR FILL COMPRISING CRUSHED ROCK (75mm MAXIMUM SIZE, NON PLASTIC OPEN GRADED MATERIAL) OR CRUSHER RUN RECYCLED CONCRETE. WHERE APPROVED UNDER SPECIAL CIRCUMSTANCES, STABILISED SAND (1 PART CEMENT TO 12 PARTS SAND BY VOLUME) OR CONTROLLED LOW STRENGTH MATERIAL OR LEAN MIX CONCRETE OR CLASS 3 MATERIAL MAY BE PERMITTED.
- COMPACTED BACKFILL UNDER FOOTPATHS AND BIKEWAYS (RIGID AND FLEXIBLE PIPES): EXCAVATED MATERIALS PROVIDED ADEQUATE COMPACTION CAN BE OBTAINED. ALTERNATIVELY USE GRANULAR FILL OR SAND.
- INCREASE EXCAVATION LOCALLY AT SPIGOT AND SOCKET JOINTS (RIGID PIPES) TO ENSURE MINIMUM BOTTOM COVER AS SHOWN.
- DIMENSIONS IN MILLIMETRES (U.N.O.).

FLEXIBLE PIPE SPACINGS 'Y' & 'Z'

EXTERNAL DIA. (OD)	SPACING 'Y'	SPACING 'Z'
>150, ≤300	150	150
>300, ≤450	200	
>450, ≤900	300	200
>900, ≤1500	350	
>1500	OD/4	300

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
A	ORIGINAL ISSUE	OCT '13	OCT '13	OCT '13

DRAWING AUTHORISED FOR PUBLICATION B.BALL SIGNATURE ON ORIGINAL DATED 29/06/01				DESIGN	STD DWG GROUP	DATE	APR '01
MANAGER ASSET SUPPORT - R.P.E.O. 3852				DRAWN	CITY DESIGN	DATE	APR '01
DESIGN APPROVED B.HANSEN SIGNATURE ON ORIGINAL DATED 27/06/01				CHECKED	M.STEER	DATE	MAY '01
PRINCIPAL ASSET OFFICER ROADS AND DRAINAGE				DRAWING FILENAME	BSD-8011.dwg		
				ASSOCIATED PLANS	SUPERSEDES UMS-311		



BRISBANE CITY COUNCIL STANDARD DRAWING	
SCALE NOT TO SCALE	
DWG No. BSD-8011	
ORIGINAL SIZE A3	REVISION A