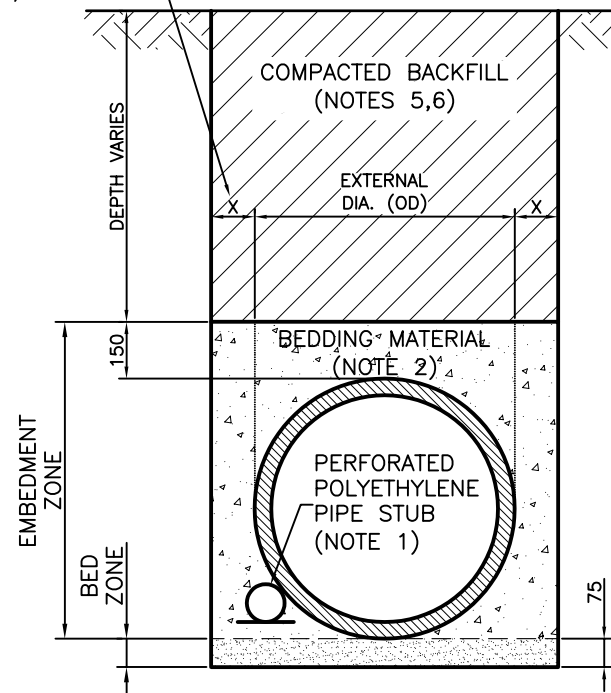
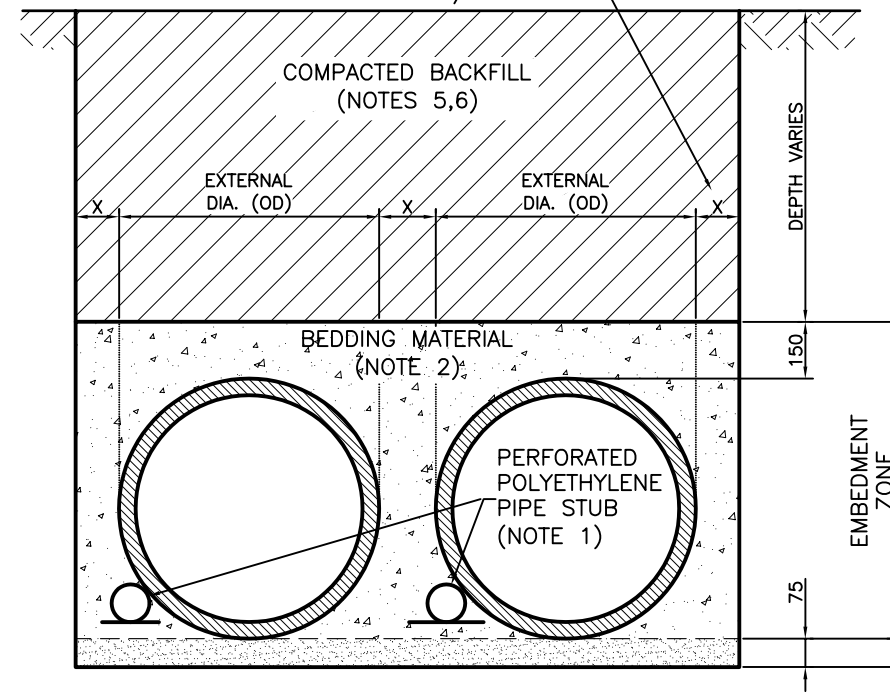


X=GREATER OF
OD/6 OR 150

X=GREATER OF
OD/6 OR 150



SINGLE PIPE

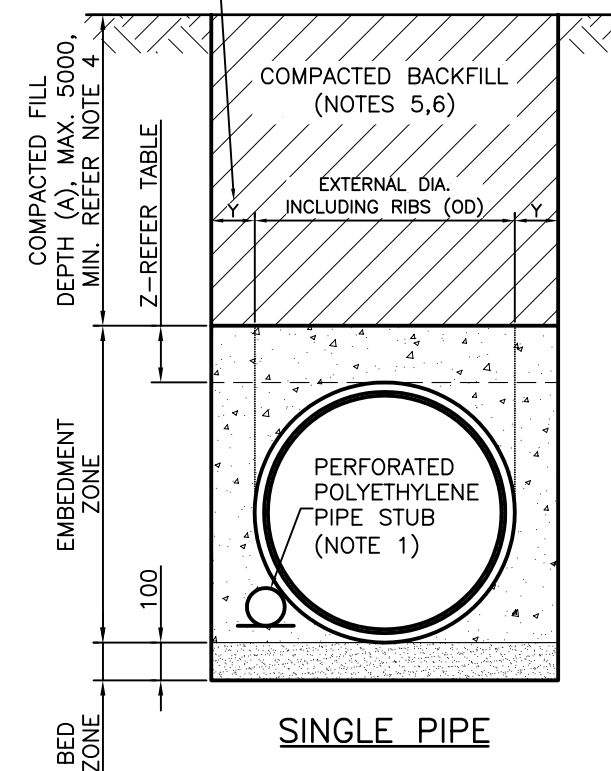


MULTIPLE PIPES

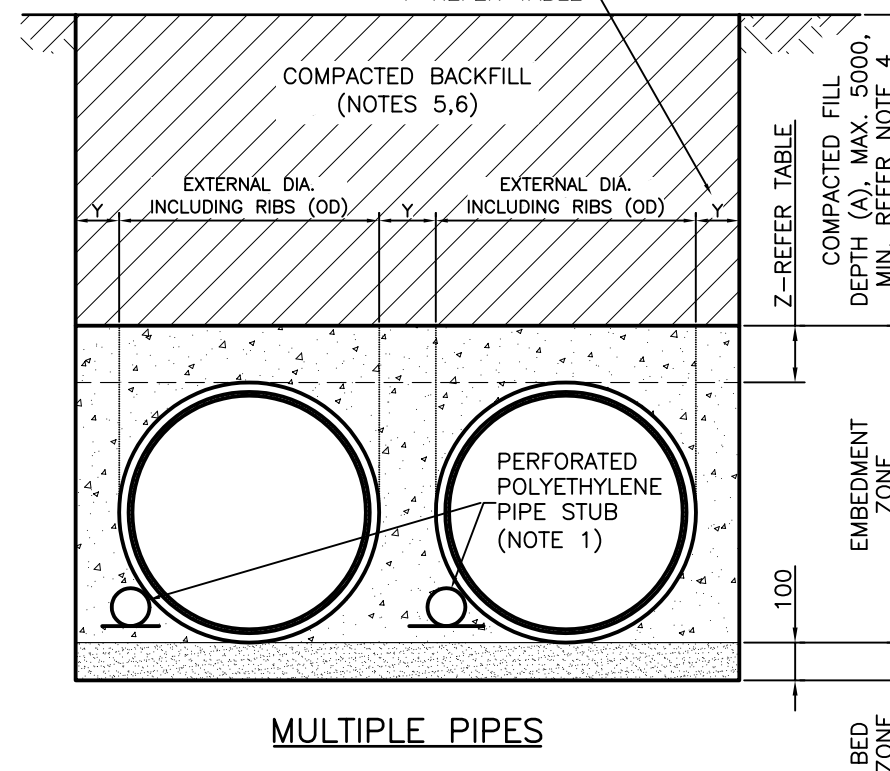
RIGID PIPE

Y=REFER TABLE

Y=REFER TABLE



SINGLE PIPE



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 |
|-------|--|------------|------------|-------------|
| B | Flexible Pipe Detail Added, Notes 3 & 4 Added, Notes 2 & 5 Modified, Original Note 5 Deleted, Drawing Name Changed | DJL 12/04 | BH Mar '05 | BH Mar '05 |
| A | ORIGINAL ISSUE | April '01 | May '01 | June '01 |

| | | | | |
|---|---------------------|--------------------|------|-----------|
| DESIGN AUTHORIZED FOR ISSUE B. BALL SIGNATURE ON ORIGINAL DATED 29/6/01 | DESIGN | STD DWG GROUP | DATE | April '01 |
| MANAGER ASSET SUPPORT - R.P.E.O. 3 8 5 2 | DRAWN | CITY DESIGN | DATE | April '01 |
| DESIGN APPROVED | CHECKED | M. STEER | DATE | May '01 |
| B. HANSEN SIGNATURE ON ORIGINAL DATED 27/6/01 | DRAWING FILENAME | UMS 311 | | |
| PRINCIPAL ASSET OFFICER ROADS & DRAINAGE | ASSOCIATED PLANS | SUPERSEDES WS 50-1 | | |



BRISBANE CITY COUNCIL - URBAN MANAGEMENT DIVISION

**BEDDING METHODS FOR
RIGID AND FLEXIBLE
DRAINAGE PIPES**

| SCALE | |
|------------------------|----------|
| NOT TO SCALE | |
| DWG No. UMS 311 | |
| ORIGINAL SIZE | REVISION |
| A3 | B |