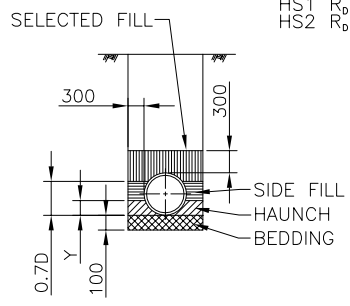
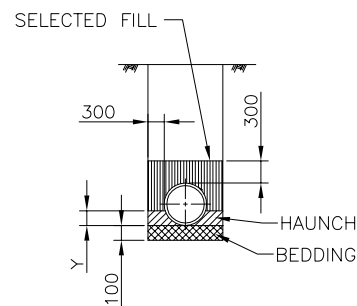


Y = 0.1 D FOR H1 TYPE  
Y = 0.3 D FOR H2 TYPE  
D = NOM. PIPE DIA.

Y = 0.1 D FOR HS1  
Y = 0.3 D FOR HS2  
D = NOM. PIPE DIA.

COMPACTION  
HS1 R<sub>o</sub> = 85% (Std)  
HS2 R<sub>o</sub> = 90% (Std)



### LEGEND:

PIPES MANUFACTURED TO AS 4058

- CLASS 2 PIPE
- CLASS 3 PIPE
- CLASS 4 PIPE

### NOTES:

1. THE VERTICAL PIPE LOAD CALCULATION IS APPLICABLE FOR CONSTRUCTION LOADING ONLY, AND DOES NOT INCORPORATE THE ULTIMATE SERVICE LOADING.
2. THE CONTENT OF THIS DRAWING IS BASED ON INFORMATION SUPPLIED BY THE CONCRETE PIPE ASSOCIATION OF AUSTRALASIA (CPAA). THE LOAD CHARTS SHOULD BE USED FOR GUIDANCE ONLY. THE LOADING CALCULATIONS HAVE BEEN DERIVED BASED ON PIPE SUPPORT CONFIGURATION AS DEFINED IN AS 3725 - 1989. THE TRENCH SUPPORT GIVEN IN DRAWING BSD-8011 IS APPROX. EQUIVALENT TO THE TYPE H2 SUPPORT.
3. FOR SPECIAL APPLICATIONS OR FOR LOAD APPLICATIONS NOT SHOWN ON THE DRAWING, REFER TO AS 3725 OR USE THE CPAA PIPE SELECTION SOFTWARE VERSION 4. A WIDER TRENCH WILL INCREASE LOAD TRANSFER TO THE PIPE AND WILL REQUIRE REVIEW OF PIPE CLASS AND BACKFILLING METHOD.
4. INCORPORATE PIPE CLASS (EG. CLASS 3), PIPE SUPPORT (EG. TYPE H2), AND TRENCH BACKFILL METHOD (EG. VIBRATORY RAMMER UP TO 75 kg) IN STORMWATER DRAINAGE LONGITUDINAL SECTION DRAWING.
5. A COMBINATION OF SUITABLE COMPACTION EQUIPMENT CAN BE USED TO ACHIEVE THE REQUIRED COMPACTION STANDARD IN THE PIPE TRENCH. FOR EXAMPLE, A 450mm DIAMETER CLASS 3 PIPE LAID IN TYPE H2 SUPPORT WITH 1m FILL HEIGHT ABOVE THE PIPE IS REQUIRED FOR THE ULTIMATE SERVICE LOADING. THE LOAD CHART ILLUSTRATES THAT A VIBRATORY TRENCH ROLLER (UP TO 2 TONNES) MUST BE USED INITIALLY TO COMPACT THE 200-300mm FILL OVER THE PIPE. A RAMMER (UP TO 75kg) MAY BE USED FOR FILL HEIGHT BETWEEN 300 AND 500mm. A 15 TONNE EXCAVATOR AND COMPACTION WHEEL MAY BE USED FOR FILL HEIGHT ABOVE 500mm.
6. DIMENSIONS IN MILLIMETRES (UNO).

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's WG	DATE	APR '01
MANAGER ASSET SUPPORT - R.P.E.O: 3852	DRAWN	CP0 - P&D	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-8001.dwg	ASSOCIATED PLANS	SUPERSEDES UMS-301

BRISBANE CITY
---------------

**BRISBANE CITY COUNCIL STANDARD DRAWING**

SCALE: NOT TO SCALE

DWG No. **BSD-8001**

ORIGINAL SIZE: A3 REVISION: A

**MINIMUM PIPE COVER FOR CONSTRUCTION LOADS-STEEL REINFORCED CONCRETE PIPES**