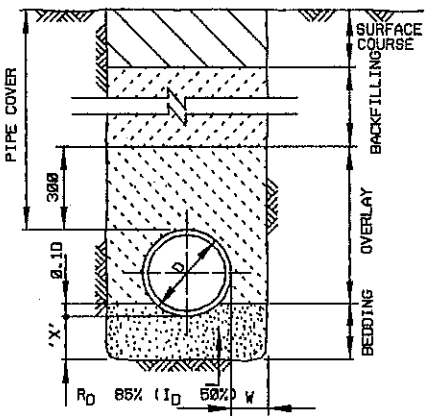
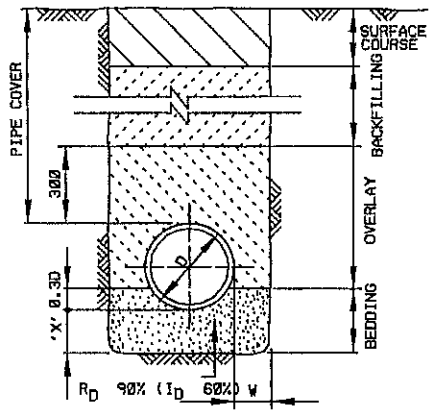
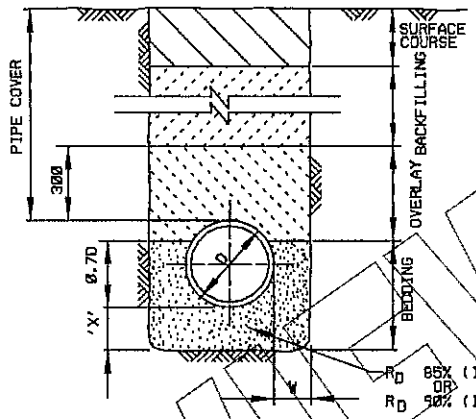


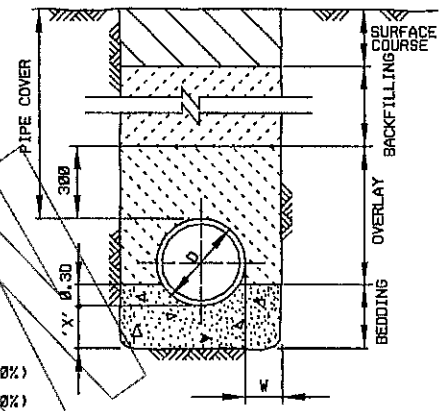
TYPE R0 SUPPORT



TYPE R1 SUPPORT



TYPE R2 SUPPORT



TYPE R4 SUPPORT

PIPE SIZE (DN)	'W' MIN	'X'
675 - 1500	300	100
1500 -	0.2DN	150

TABLE 2

ZONE DESCRIPTION / PIPELINE LOCATION		FREEWAYS AND ARTERIAL ROADS (UNDER PAVEMENT)	OTHER ROAD PAVEMENTS	FOOTPATHS OTHER PAVED AREAS AND ADJACENT TO STRUCTURES	NATURE STRIPS LAWNS ROAD RESERVE CLEAR OF PAVEMENT	ELSEWHERE	
BACKFILL MATERIAL SPECIFIED		A	A	A	B	B	
SURFACE COURSE		TEMPORARY REPAIR 7MM COLD ASPHALT PERMANENT REPAIR AS SPECIFIED BY CONTROLLING AUTHORITIES		REPAIR TO SUIT LOCAL CONDITIONS	RESTORE TO ORIG CONDITIONS TOPSOIL & SEED GRASSED AREAS	RESTORE TO ORIGINAL CONDITIONS TOPSOIL & SEED GRASSED AREAS	
BACKFILLING	UPPER: FROM SURFACE COURSE TO 600 BELOW SURFACE	20MM VIC ROADS. CLASS 2 CRUSHED ROCK R_D = 105%	20MM 'A' GRADE CRUSHED ROCK R_D = 102%	20MM 'B' GRADE CRUSHED ROCK R_D = 95%	SELECTED EXCAVATED MATERIAL R_D = 90%	OR	
	LOWER: MORE THAN 600 BELOW SURFACE	20MM VIC ROADS. CLASS 3 CRUSHED ROCK R_D = 95%	20MM 'B' GRADE CRUSHED ROCK R_D = 90%	20MM 'B' GRADE CRUSHED ROCK R_D = 90%	ORDINARY EXCAVATED MATERIAL	BULK EXCAVATED MATERIAL	ORDINARY EXCAVATED MATERIAL
OVERLAY (NO MECHANICAL COMPACTION)		10MM 'A' GRADE OR 20MM 'A' GRADE CRUSHED ROCK R_D = 90%			SELECTED EXCAVATED MATERIAL	10MM 'A' GRADE OR 20MM 'B' GRADE CRUSHED ROCK	SELECTED EXCAVATED MATERIAL
BEDDING	SUPPORT TYPE R0, R1, R2,	PIPE SIZE DN 675 TO 1050: 10MM OR 20MM 'A' GRADE CRUSHED ROCK OR 10MM OR 20MM SINGLE SIZE AGGREGATE PIPE SIZE DN 1200 OR LARGER: 20MM 'A' GRADE CRUSHED ROCK OR 20MM SINGLE SIZE AGGREGATE					
	SUPPORT TYPE R0C, R1C, R2C	'A' GRADE CRUSHED ROCK STABILISED WITH 6% BY MASS CEMENT					
	SUPPORT TYPE R4	MW N20 CONCRETE					

TABLE 1

NOTE

1 TYPE R1 SUPPORT SHALL BE USED UNLESS OTHERWISE SPECIFIED OR DIRECTED.

2 TYPE R0C, R1C AND R2C SHALL BE AS FOR TYPES R0, R1 AND R2, STABILSED WITH 6% BY MASS CEMENT.

3 TYPE R4 SUPPORT SHALL EMPLOY PIPE SUPPORTS AND FLEXIBLE JOINTS, REFER DRAWING 7251/4/302

4 THE MAXIMUM LENGTH OF PIPE LAID IN GRANULAR SUPPORT WHICH IS ADJACENT TO A PIPE SUPPORTED IN CONCRETE, GROUT OR CEMENT STABILISED SUPPORT OR CAST INTO A CONCRETE STRUCTURE SHALL BE 600. (700 LONG FOR 300 TO 600 DIAMETER PIPES.). WHERE A PIPELINE PASSES FROM CONCRETE, GROUT OR CEMENT STABILISED BEDDING TO GRANULAR BEDDING, THE CONCRETE, GROUT OR CEMENT STABILISED BEDDING SHALL EXTEND TO BETWEEN 25 AND 75 FROM A RUBBER RING JOINT.

5 FOR DETAILS OF BACKFILLING METHODS REFER TO SPECIFICATION.

6 SUPPORT MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150 COMPACTED THICKNESS. EACH LAYER SHALL BE PLACED OVER THE FULL WIDTH OF THE TRENCH AND EVENLY EACH SIDE OF THE PIPE.

UNDER REVIEW

REF	ZONE	REVISION	DATE	APP'D

SENIOR ENGINEER - DESIGN | DRAWN | CHECKED | COMPILED | CHECKED

MELBOURNE WATER
DRAINAGE STANDARD DRAWING

EARTHWORK
EXCAVATION & EMBEDMENT
FOR REINFORCED CONCRETE PIPES

DRAWING NUMBER: 7251/4/301
SCALE: N.T.S.
REVISION