

PROJECT MANAGER

rements in mm unless otherwise a

5. 100 mm diameter sewer-grade PVC pipe (pre-perforated). See Sheet 5 for alternative design for low-pressure dosing.

10. Inspection port to be placed on downhill side of each trench. Typically a 50 mm PVC piezometer perforated in gravel zone. Inspection ports must be kept visible, accessible and suitably protected to prevent damage by mower or other

13. Spacing between trenches - B. The distance between trenches will vary depending upon trench dimensions and absorption field area requirements (m2). Spacing between trenches should be at least 1000 mm.

14. Trench dispersal area (m2). If greater than 2 m between trenches, calculate dispersal area as trench basal area plus

15. Downslope surface runoff collection drain (see inset A). Only required if close to sensitive feature downstream 16. Upslope run-on diversion and/or drain if required (see inset B). Diversion required on all sloped sites.

19. Splitter box, for even flow distribution, to be built from moulded PVC or pre-cast concrete. Box must be placed

21. Manifold distribution box, to be built from moulded PVC or pre-cast concrete, housed within 600mm x 600 mm stormwater pit with solid lid. Distribution box must be placed and levelled on 1000mm x 1000mm pre-cast slab or

23, " Junction", may be PVC or earthenware, forming riser to surface to provide inspection opening (instead of separate trench piezometer), capped with cast iron sewer box and bedded in concrete. Junction is cut into top of trench arch

- b. Applied effluent must be filtered to 1-2 mm through effluent outlet filter or disk filter, and will ideally have been treated
- c. Effluent must be applied in discrete doses, either by gravity through dosing siphon or by pumped application. d. Sub-surface pipes as per manufactures specifications, all pipe work and fitting should comply with the Australian Standard 2698 "Plastic Pipes and Fittings for Irrigation and Rural Application". Effluent grade pipe work should be
- e. Discharge control trench should only be considered when discharging high-quality effluent on highly permeable soils
- f. In clay soils each trench should be scoured to a depth of 5-10 mm to reduce base and sidewall sealing.
- i. Trench field to be covered by 50-100 mm topsoil (not heavy clays), maintaining access to all access points.
- j. On sloping blocks, effluent application fields may be terraced. Maximum slope along and across trench must be <0.5
- I. Effluent manifold design may be varied to accommodate trenches with varying flow and distance requirements.
- m. Construction of upslope swale diversion and/or sub-surface drains may be necessary in poorly drained sites or where
- n. Effluent should be evenly distributed throughout the absorption trench to prevent 'short-circuiting' and ensure optimum operating conditions are maintained over the total available area. Before filling, the base of the trenches should be filled with water to identify low areas. Low areas should be levelled with compacted soil before ETA bed constructed.
- o. The commissioning of the disposal system should include a test run/check for leaks and poorly distributed areas.
- r. On completion of work a plan indicating the works as executed must be provided to Council detailing any changes to

REVIEWED

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PROJECT REFERENCE / DRAWING NUMBER

2003G812JD6.2

VERTICAL RATIO:

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- b. The absorption systems must be maintained in such a manner as to prevent any run-off of effluent of the mound
- c. The system operator should maintain the absorption field regularly, to ensure adequate cover of the pipe work,
- d. Trenches should be inspected as part of the regular on-site wastewater system service and maintenance program.

SHEET	REV.	DESCRIPTION	DATE	ISSUED
4 F 10 HEETS NPER SIZE: A3	1.0	Design guide for disposal systems.	10/11/2003	DM
	2.0	Ammended design guide for disposal systems.	11/03/2004	DM
	3.0	Final design guide for absorption systems.	25/03/2004	DM