END CURVE END BOW TAIL MOORING CAPS

The structural work shown on this drawing is considered to be structurally sound and suitable for the design loads. All construction to be as per current Australian Standards and Building Codes, or alternatives with E300 requirements, and is a professional and responsible designer.

Jan Barnes & Associates Pty Ltd
Consulting Engineers
13/08/2017

FAUNA MOVEMENT SHELF

GI-0530

SECTION
Scale 1:1

Pine log escape poles Length=1.5+100mm. Position bottom of pole on the down stream side of culvert.

NOTES:
1. Fauna movement shelf and access poles allow wildlife to move through the culvert and avoid or escape ground level predators at each end and at key points through the culvert.
2. Ensure existing vegetation is retained as close as practical to both ends of the culvert to provide shelter for crossing fauna.
3. Where vegetation removal is undertaken for construction, designers should incorporate revegetation planting to support biodiversity and encourage crossing by wildlife.
4. Adequate culvert size is influenced by target fauna species and geographical location. Designers should consult an ecologist or suitably qualified professional with regards to appropriate culvert size for target species.
5. Culverts with heights ≥1800 cater for a greater range of native species and should be used as a minimum for koalas. Larger culverts are preferable.
6. Escape poles should be placed at intervals of approximately 3.0m commencing at the ends of the culvert.
7. Timber sleepers shall be 200x50 pine or hardwood and treated to hazard level H5 in accordance with AS1604.
8. Pine logs to be #100 and preservative treated to hazard class H5 to AS1604.1 and have a durability class 4 to AS5604.
9. Steel sections grade 300 material and hot dipped galvanised after manufacture.
10. Welds to be effected with E46xx or W50xx electrodes but not less than that required by AS4100.
11. Bolts, washers, nuts and screws to be treated with 'Zenith-Tufcote' or 'Buildex-Climacoat' or approved equivalent (unless noted otherwise).
12. All bolts shall be fixed with one washer under the turned part.
13. Where double nut has been specified tighten first nut against structure then lock nuts together by tightening in opposing directions.

Concrete box culverts
Culvert headwall with apron and wingwalls

SYD JERRAM
07/07/16
Moreton Integrated Transport Planning & Design
EGO 972

AUTHORISED

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GI-0530

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