

STANDARD SPECIFICATION  
FOR GUIDANCE IN  
DESIGN AND CONSTRUCTION OF  
**RURAL CROSSOVERS**

July 2007

## **RURAL CROSSOVERS**

### **1. GENERAL**

This specification sets out the requirements for the construction of a gravelled vehicle crossing.(crossover) and, where appropriate, a bituminised vehicle crossing (crossover) from the edge of the road pavement to the boundary line of any rural location in the Shire of Manjimup.

#### **NOTE:**

- i. Where a crossover joins a bituminised road, the crossover shall be bituminised unless otherwise directed by the MDS.
- ii. Particular care must be taken for the protection of all public utility services, survey marks, Council and private property.
- iii. The term Contractor refers to the person responsible for the crossover.
- iv. MDS refers to Manager Design Services or his representative.

### **2. LOCATION**

- i. Locate crossover in the road reserve between the road and property boundary.
- ii. Crossover to be located with a minimum of 200M site clearance in both directions taken from where the driver of a vehicle leaving property would be located, if this site distance can not be met at any point on property boundary, MDS to be notified to arrange an alternative.
- iii. Before any clearing commences, contractor to note existence of rare and endangered flora or mill able timber with the appropriate departments notified if found or unsure. Conservation Department for rare and endangered flora, Forrest Products Commission for mill able timber.
- iv. Crossovers are to be constructed at 90° (right angles) to the centreline of the road.
- v. On corner locations, no crossover, or any portion of the crossover including splays is to be constructed closer than 6.1m from the line of the intersection of the road reserve boundary alignments.

### **3. DIMENSIONS**

The minimum width of a gravelled crossover is 4.0m with the minimum width of a sealed crossover being 3.0m. Maximum width of all crossovers to be 6.0 m. Any other requested size to be to the direction of the MDS. Dimension to be taken from boundary line with maximum 4.0m. radius splays at road side.

### **4. BASE COURSE**

All crossovers to be built from not less than 150mm (consolidated) road base (gravel) or suitable material approved by the MDS constructed in maximum 75mm layers, watered and compacted, making a total minimum consolidated thickness of not less than 150mm. The whole of the construction must be to the approval of the MDS.

### **5. WORK**

#### **(A) LEVELS**

Levels of a crossover at the fence line to be as follows:

NOTE:

- i. The crossover at the fence line to have the same longitudinal grade (slope) as the roadway. That is, the level for each edge of the crossover to be taken separately from the centreline of the road, the crossover is not to be level (flat) from gate post to gate post at the fence line.
- ii. Only with the instruction of the MDS may the level be varied due to the general contour of the ground and provided that the flow of storm water will not be restricted.
- iii. Cross fall of the crossover to be such that any storm water falling onto surface will drain off sides into margin or table drains. No storm water is to flow from crossover or drain onto the road surface
- iv. For streets of widths other than 20.1m and in difficult locations, Council instructions to be requested before work is commenced.

## (B) FOUNDATIONS

In accordance with the details of conditions, requirements, specifications and plans the Contractor shall:

- i. Where necessary, the site of the crossover is to be first cleared of all vegetation, roots and trees and the sub-grade formed to the levels and gradients as required being excavated or filled as the case may be.  
**Note: no vegetative material or earth spoil to be dumped on the road reserve.**
- ii. Establish levels and peg levels (see a).
- iii. Carry out construction to size and width as required.
- iv. Carry out necessary "fill" or "excavation" as may be necessary. Contractor to supply filling material or remove excavated earth as necessary in accordance with the required level.
- v. Form, shape and compact the sub-grade as necessary.
- vi. A culvert including headwalls must be provided if the vehicle crossover prevents stormwater flow within the vee drains. All pipes and culverts shall conform to the Australian Standard Specifications for concrete drainage pipes (pre-case) No. A35-1957. They shall be spigot and sock jointed up to and including 535mm diameter and rubber ring jointed for larger diameters. Reinforced concrete drainage pipes shall be Class "2" unless otherwise required by the MDS. They shall have a minimum diameter of 300mm and a minimum cover over the pipes of 300mm.
- vii. Headwalls may be constructed in either:
  - (a) Rock spoil with concrete joints.
  - (b) Concrete headwalls.Both types must be structurally sound and finished to the satisfaction of the Manager of Design Services(MDS).
- ix. Any bitumen sealed crossover to have either 150x50 jarrah or treated softwood edging built in down both sides to contain base and wear surface, alternatively have concrete kerbing down both sides to road shoulder but not out to road surface or provide a 600 wide gravel shoulder outside seal both sides complete with guide posts to contain traffic to sealed surface.

## **6. COUNCIL SUBSIDY**

A subsidy as per council's schedule of fees and charges is payable by the Shire of Manjimup.

This payment is subject to the application for a contribution being lodged within twelve (12) months of construction and following inspection, the crossover being deemed to conform to specifications.

A claim for this payment should be made on the attached claim form for the construction of the crossover and must include a signed declaration and receipts.