



# **VEHICLE CROSSOVER SPECIFICATION**

## **OVERVIEW**

This document is designed to assist property owners and contractors to construct an appropriate crossover to City of Karratha (from here on referred to as CofK) specifications allowing the property owner to request a CofK crossover contribution.

Property owners or contractors are encouraged to contact the CofK and other relevant service authorities prior to the construction of the crossover if unsure on any aspect of this specification.

It is strongly recommended that building plans are not prepared, and building permits not submitted until CofK approval has been obtained for the crossover location. Proceeding without this approval may create additional costs to the owner should redesign be required.

The crossover must be constructed from new materials. During the construction the contractor shall ensure that no damage occurs to the CofK's roads, footpaths, drainage structures, kerbs, pram ramps and verges. Damage to the above mentioned facilities may result in the repairs being carried out by the CofK at the property owner's expense.

During the construction of the crossover, if a footpath exists, an alternate route shall be provided for pedestrians to maneuver around works, in a safe manner with adequate signage or barricades placed to ensure pedestrian safety.

The location and size of the crossover will be considered during the assessment of the building license. If a second crossover is required, an application must be submitted including a letter from the owner and a drawing clearly showing crossover size, location and type. Approval will only be granted as a condition on the building license or in writing from Council.

## **LOCATION**

Crossovers are to be located in such a position that does not interfere with public utilities i.e. telecommunication pits, sewer pits, pram ramps or drainage structures. The crossover is to be constructed at 90 degrees to the kerb line and must not be built through the corner truncation. The location of the crossover should be no closer than 1.5 from the side property boundary, 1.0m from a light pole and 3.5m from any trees on the verge.

## **CONSTRUCTION**

### **Levels**

The crossover should be constructed to tie into existing verge levels, including existing footpaths. If unsure, please contact CofK to obtain correct levels.

### **Dimensions**

For residential crossovers, the minimum width of the crossover at the property boundary is 3.0m and the maximum width in accordance with requirements of the Residential Design Codes of Western Australia or as approved by Council.

For commercial crossovers, the minimum width of the crossover at the property boundary is 6.0m and the maximum width as approved by Council.

### **Base Preparation**

The base material should be thoroughly moistened and compacted to 95% MMDD (Maximum Modified Dry Density), 7 blows / 300mm (per sand penetrometer). For brick

paved crossovers a 32mm layer of bedding sand is required on top of the compacted sub-base.

### **Concrete**

All concrete used in the works shall develop a minimum compressive strength of 32 mega pascals (MPa) at 28 days with a maximum slump of 50mm and cured for 3 days.

### **Brick Paving**

Trafficable type concrete or clay solid pavers are permitted and should be a minimum thickness of 60mm.

### **Kerbing**

Any existing kerbing along the edge of road is to be removed to the width of the crossover as per the CofK standard drawings.

### **Finishing**

The surface shall be treated to provide a non-slip surface.

### **Wings**

Crossover wings shall be constructed 1.5m wide x 2.0m long for residential properties and as per standard drawings for commercial properties. A radius of 1.5m for residential and 3.0m for commercial may be used. Commercial properties may require wider wings to accommodate the swept path of over-sized vehicles.

## **CONSTRUCTION RESPONSIBILITIES**

The person responsible (ie: property owner) for the construction of the crossover shall ensure the following;

- Cutting existing kerbing with concrete saw or removing existing precast kerbing without damage to pavement, kerbing or services.
- Removal and disposal of all surplus material from the site of the works and leaving the site in a clean and tidy condition at all times.
- Removal of formwork without damage to concrete, pavement or existing kerbing.
- Immediate reinstatement to kerbing, road surface, footpaths and all public utilities following damage during the course of the works.
- The protection of private property from flooding during construction due to the removal of kerbing or water channel.
- The personal attention to all claims from ratepayers due to the construction of the crossover.

## **CONTRIBUTIONS**

Council will contribute 50% of the cost, as estimated by CofK of a standard residential or commercial crossover, excluding cost of stormwater management elements.

### **Examples:**

#### **Residential standard crossover**

(3m width by length between property boundary and road edge)

50% of area of standard crossover x estimated cost per square metre.

**Commercial standard crossover**

(6m width by length between property boundary and road edge)

50% of area of standard crossover x estimated cost per square metre.

Only the first crossover will be eligible for a contribution to costs by CofK.

To obtain the subsidy, a council representative must inspect and approve the crossover prior to any concrete being poured.

Owners are to make application on Council's 'Application for Vehicle Crossover Subsidy' form which may be obtained from the City of Karratha website at <http://www.karratha.wa.gov.au> or by telephoning the City of Karratha Customer Services on (08) 9186 8555

**SCHEDULE OF REQUIREMENTS**

<b>ALL CROSSOVERS</b>		
<b>Item</b>	<b>Residential</b>	<b>Commercial</b>
Minimum width	6.0m	6.0m
Maximum width	6.0m	12.0m or as required for swept path of over-size vehicles.

<b>CONCRETE CROSSOVER</b>		
<b>Item</b>	<b>Residential</b>	<b>Commercial</b>
Thickness	100mm	150mm
Steel Reinforcement	SL82 mesh	SL82 mesh
Concrete Strength (28days)	32 MPa / 50mm slump	32 MPa / 50mm slump

<b>BRICKPAVER CROSSOVERS</b>		
<b>Item</b>	<b>Residential</b>	<b>Commercial</b>
Thickness	60 – 76mm	76mm minimum
Sub base – (Rock base/gravel)	150mm	250mm
Sand Bedding	25mm	25mm