

# **Information Sheet Residential Crossovers**

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#### Introduction

A crossover is the extension of a driveway from the edge of the property boundary to the edge of the road. Its primary function is to provide access for vehicles across the verge which forms part of the road reserve.

The purpose of these guidelines is to provide information to residents in relation to the design and construction of a crossover. These guidelines have been developed by the Shire to ensure that each crossover:

- Is of a uniform standard.
- Ensures a safe entrance and exit to the property.
- Reduces the flow of runoff if stormwater does enter private property.
- Provides a safe and even surface for pedestrians.
- Reduces any negative impact on other infrastructure in the road reserve or surrounding area.
- Maintains and/or improves the streetscape.

#### **Overview**

This document is designed to assist property owners and contractors in the construction of a crossover that complies with Shire of Capel specifications.

All crossovers require the completion and submission of an application from, by or on behalf of the current property owner.

No crossover is to be commenced until Shire approval (with or without conditions) is granted.

The location and size of the crossover must comply with the specifications provided in this document.

Subdivision and Commercial crossovers do not require an application form, these will be reviewed though the development/subdivision application process. They may require an engineering drawing. An upgrade of an existing commercial crossover will require a written approval by the Technical Engineering Department.

#### Procedure

- 1. Read the following statement and specifications.
- 2. Complete the application form including a sketch/drawing and submit to Council.
- 3. Council will respond with their decision.
- 4. Construction of a crossover may commence only after approval has been granted.
- 5. Inform Council upon completion of your approved crossover.
- 6. Council will register the completed crossover on the property record. Payment of contribution may be approved in eligible cases.

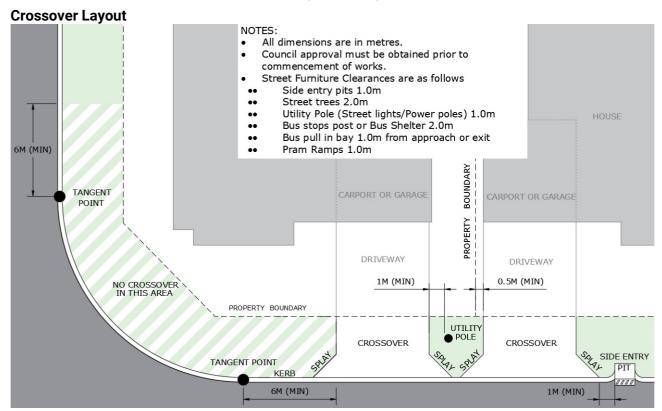
#### **Design (Planning)**

As driveways and crossovers are connected, both are subject to the requirements of the Residential Design Codes of Western Australia (R-Codes) and Residential Development Local Planning Policy.

Where a driveway and associated crossover does not comply with these requirements, a Development Application is required.

#### Width of Crossover

- minimum of 3.0m
- maximum width of 6.0m for residential lots (as per R-Codes)
- Multiple crossovers in total no greater than 9m for any one property.
  - o See Multiple Crossover for further details
- Road fronting highways will have to comply with Main Roads Standards and approvals.
- Rural property may be permitted to have a wider crossover for commercial use.
  - o See Non-standard Crossovers (Variations) for further details



#### **Visual Truncation (Sight Lines)**

Except with the approval of Council, no building, wall, fence or other form of visual obstruction greater than 0.75m in height, measured from the natural ground level at the boundary is permitted, within a 3m by 1.5m truncation of a vehicular access way, as per the Town Planning Scheme.

#### **Multiple Crossovers**

Except with the approval of Council, multiple crossovers for residential properties will only be approved where the R-coding is less than R30, and the crossovers would not cover more than 40% of the verge frontage of the property. The total aggregate width of multiple crossovers is to be no greater than 9m.

#### Storage of Caravans, Boats or Trailers

Ancillary vehicles such as caravans, boats & trailers shall be located entirely within private property.

#### **Non-standard Crossovers (Variations)**

Any non-standard crossover requires Shire approval and applications will be assessed on site specific criteria such as the existence of paths, sightlines, topography, road activity, amount of adjoining verge already paved, and impact on public amenity.

Where a driveway and associated crossover does not comply with state planning requirements, a Development Application is required. Development Application fees may apply.

#### **Crossover Maintenance**

The ongoing maintenance and upkeep of crossovers is the financial and practical responsibility of the property owner. Council does not accept any costs associated with any repairs, unless the repairs are required as a direct result of action by Council or its contractors.

#### **References and Guidelines**

This document provides a standard for crossover design that references Statutory and best-practice Guidance documentation including the following:

- Austroads Guide to Road Design
- Australian Standards AS2890.1:Off-street parking (2004)
- IPWEA Guidelines for Driveway Crossovers
- Main Roads Standard Drawings for Driveways
- Planning WA Liveable Neighbourhoods
- State Planning Policy 7.3 Residential Design Codes (R-Codes)
- WALGA Crossover Guidelines

#### **Appendix 1 - Technical Specifications**

#### Important information for your contractor

During construction the contractor shall ensure no damage is caused to the Shire of Capel's roads, footpaths (footpath not to be removed unless replacing broken panels), drainage infrastructure, kerbs, pram ramps and verges. Damage may result in the repairs being carried out by the Shire of Capel at the property owner's expense.

#### **Footpaths**

During the construction of the crossover, if a footpath exists, it should be kept open to pedestrians in a safe manner and adequate signage or barricades placed to ensure pedestrian safety.

#### Levels

The crossover should be constructed to tie into existing verge levels, including existing footpaths. A cross-fall of 2% is desirable but up to 5% is acceptable. If unsure please contact Shire of Capel to obtain correct levels. No existing footpath shall be removed without written approval from Council.

#### Splays

Crossover splays are to be 1.5m wide x 1.5m long. Alternatively a radius of 1.5m for residential can be used. On request and approval splays can be reduced to an absolute minimum of 1.0m wide x 1.0m long.

#### Construction

Crossovers must be constructed by suitably qualified contractors to the specifications below.

The crossover must be constructed from new materials.

#### **Base Preparation**

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

#### **Rural areas**

In rural areas where the road is not kerbed it is recommended that asphalt seal crossovers be installed, but concrete may be approved. The concrete crossover must stop 1m away from the edge of seal and the gap between the crossover and the road must be filled with a 25mm thick asphalt strip.

#### **Gravel Driveways in Rural Areas**

Gravel driveways and crossovers are permitted in rural areas and are to be constructed to standard of the adjoining road surface and conditions as a minimum. Liaise with the Shire of Capel to ensure the correct formation is nominated for each particular site situation.

#### Open drains

All crossovers over an open drainage swale must have a 375mm Class 2 reinforced concrete pipe culvert and headwall installed. The property owner shall ensure the pipe culvert is maintained and kept clear of grass and debris where possible.

#### **Kerbing**

Mountable kerb need not be removed. Barrier and semi-mountable kerb can be removed at the owners cost. New kerbing is to be of equal width of the existing kerb with a 20mm water channel (lip) along the kerb line.

#### Stormwater

Stormwater falling on a driveway within private property shall be retained within that lot by means of soaking and/or storage with a capacity of 1m3 per 100m2 of impervious surface area. Residents within the townsites of Boyanup and Capel with poorly draining soils may allow the water to flow to the road.

#### **Street trees**

Crossover are to be located so as to avoid street trees, or, where this is unavoidable, the street trees replaced at the applicant's expense or re-planting arrangements to be approved by the decision-maker/Shire of Capel.

Driveways must be 2m from existing street trees.

### **Appendix 2 – Schedule of requirements**

Important information for your contractor

or
3.0m
0.0
6.0m
9.0m width in total including the first
crossover, or 40% of the width of the lot
frontage; whichever is less
Horitage, whichever is less
100mm
SL62 mesh
25 Mpa / 80mm slump
25 Mpa / Comm Slamp
60mm
25mm
150mm
100mm
25mm
150mm
roumm
100mm
у
150mm
375mm with precast concrete headwall
300mm (Min)
Limestone Sub-Base or compacted
Rock/gravel to be compacted 150mm
around the culvert
sure the correct alignment of culvert is achieved

# **Application to Construct a Crossover**

Application fee of \$5	0.00 payable at tim	e of submittin	g the appli	cation			
Payment in advance:	: 🗆		Deduct fr	om refund:			]
<b>Crossover Property</b>	Details						
Lot Number:			House Nu	ımber:			
Street							
<b>Applicant Details</b>							
Applicant Name:							
Postal Address:							
Phone Number:			Email:				
Crossover Details (C	ircle applicable)						
Material type:	Concrete	Brick Pavi	ing	Asphalt		Grave	el (Rural only)
Is there an open drai	n on the verge?				Yes		No
Is this the first cross	over to be construct	ed on this lot?			Yes		No
Is this property subje	ect to any current bu	ilding/develop	ment appro	ovals?	Yes		No
If yes, please provide relevant numbers:							
Proposed Crossover	Width:						
Constructed by: (Co	ntractor details)						
Construction Date:							
Crossover Requirem							
they are cons Crossovers a Crossovers (a No works are Building & pla It is the resp Crossover wo	re to be constructed in available on the Shire to commence prior to anning approvals do ronsibility of the owner carried out without apply to the first every apply to the	n accordance w website <u>www.c</u> o issue of appro not cover crosso r to engage the ut approval will	with the Shire capel.wa.govous. over constructions of the deemed	es Information  v.au).  ction. a competent of the compete	n SheetRes	identia	I
Declaration							
I acknowledge the ac	companying docum	nentation and i	understand	the Shire's re	eguiremen	t for th	nis application
I acknowledge failure			esult in lega		•		
Signature:			Date:	/		/	

#### **Application for Crossover Subsidy**

#### **Conditions of Subsidy**

- Crossover subsidies only apply to the first crossing installed to access the land and/or an upgrade from a bituminous to concrete or brick paved crossover.
- Crossover subsidies can only be applied for after construction of crossover.
- The crossover contribution form shall be made within 12 months of the crossover being built, with evidence of date provided.
- Tax invoices will not be accepted as supporting documentation.
   Crossover subsidies payable.

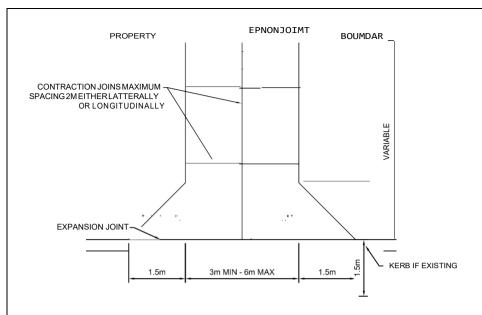
\$627.25 for the first approved crossover in an urban area; or \$916.75 for the first approved crossover in a rural or special rural area.

- Crossover construction must be approved. Crossover must conform to Shire of Capel Information Sheet Residential Crossovers (available on the Shire website www.capel.wa.gov.au). Nonconforming and/or unapproved crossovers are not eligible for a subsidy.
- Building & planning approvals do not cover crossover construction.
- Only the property owner may apply for Crossover Subsidies. Crossover Subsidies are only payable to the property owner.

Crossover Property Details						
Lot Number:				House Number:		
Street:						
Applicant Details						
Applicant Name:						
Postal Address:						
Phone Number:				Email:		
Declaration						
I acknowledge that council	I acknowledge the accompanying documentation and understand the Shire's requirement for this application. I acknowledge that council contribution is only eligible for the first crossover constructed this lot. I accept the amount of money contributed by Council is based on Shire of Capel Policy 7.2.					
Signature:			Date:	/	/	
,						
Payment Details				Office Use Only		
I would like to be paid by: EFT Cheque		Inspected By:				
Account Name:				Date Inspected:	/	/
BSB: Acc:			Records:			
Payment Approved (office use) Yes No			No			
\$ D	ate: /	/	I			

# **Crossover Subsidy Checklist**

Documents	Further Information	Atta	Attached	
Documents			N/A	
Completed Application to construct Form	Please ensure form is filled out fully and correctly			
Fees	Application fee of \$50.00 is payable at time of application			
Site Plan	Please provide a plan showing the site, noting existing street trees, footpath, public utilities, signage, location, and dimensions of the crossover.			
Application for subsidy form	Crossover subsidies can only be applied for after construction of crossover			
Finished photograph of works	Photos to show finished works, measurements of length and width of crossover			
Site Plan	Please provide a plan showing as constructed driveway location and dimensions			
Invoice	Invoice provided by contractor showing value of works and details.			



#### NOTES:

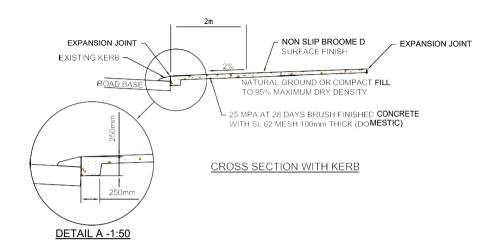
- ON REQUEST AND APPROVAL SPLAYS MAY BE REDUCED (TO AN ABSOLUTE MINIMUM OF 1M X 1M)
- CROSSOVERS SHALL PROVIDE A NON-SLIP BROOMED SURFACE FINISH
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED ON SITE
- EXISTING CONCRETE PATHS IN GOOD CONDITION SHALL NOT BE REMOVED.
- CONCRETE PLACEMENT SHALL CONFORM TO AS1379 (1991) AND AS3600 (1988)
- EXPANSION JOINT SHALL BE USED IN THE FOLLOWING
- •• AT THE LOT BOUNDARY LINE
- BOTH SIDE OF AN ABUTTING FOOTPATH
- ABUTTING ANY EXISTING KERBING
- ABUTTING ANY EXISTING PUBLIC UTILITY SERVICE
- •• EVERY 6M MAXIMUM SPACING ON LONG SECTIONS
- EXPANSION JOINTS TO BE 12mm CANITE STRIP
- CONTRACTION JOINTS SHALL INSTALLED A MAXIMUM OF 2M SPACING EITHER LATERALLY OR LONGITUDINALLY.
- DRAWING TO BE READ IN CONJUNCTION WITH SHIRE OF CAPEL CROSSOVER INFORMATION PACK

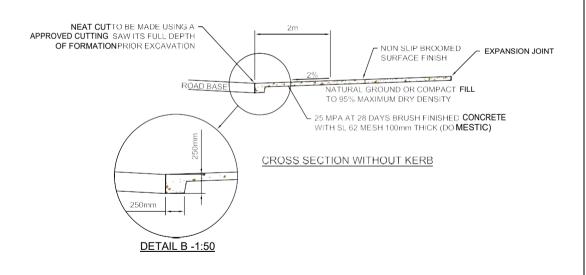
REV	DATE	APPROVED	AMENDMENT

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DRAWN	T.GOULD
ACCOUNT	NIL
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STANDARD CROSSOVER DETAILS

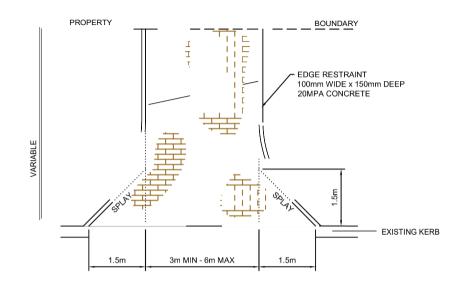
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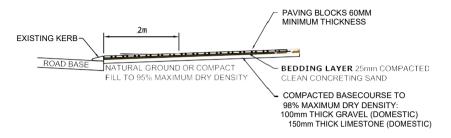
X-OVER STD1

CONCRETE CROSSOVER

SHEET 1 OF 4 1:100 @A4

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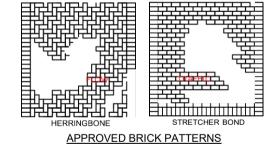




#### **CROSS SECTION WITH KERB**

#### NOTES:

- PAVING ONLY ACCEPTABLE FOR KERBED ROADS
- ON REQUEST AND APPROVAL SPLAYS MAY BE REDUCED (TO AN ABSOLUTE MINIMUM OF 1M X 1M)
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED ON SITE
- EXISTING CONCRETE PATHS IN GOOD CONDITION SHALL NOT BE REMOVED.
- BEDDING LAYER SHALL BE WELL-GRADED CONCRETING SAND, FREE FROM DELETERIOUS SOLUBLE SALTS AND OTHER CONTAMINATES, COMPLYING WITH CONCRETE MASONRY ASSOCIATION PA02 CONCRETE SEGMENTAL PAVEMENTS.
- PAVING BLOCKS TO COMPLY WITH AS4455 AND AS4456
- JOINT FILLING SAND TO BE USED AS PER CONCRETE MASONRY ASSOCIATION PA02 CONCRETE SEGMENTAL PAVEMENTS.
- DRAWING TO BE READ IN CONJUNCTION WITH SHIRE OF CAPEL CROSSOVER INFORMATION PACK



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STANDARD CROSSOVER DETAILS

PAVED CROSSOVER

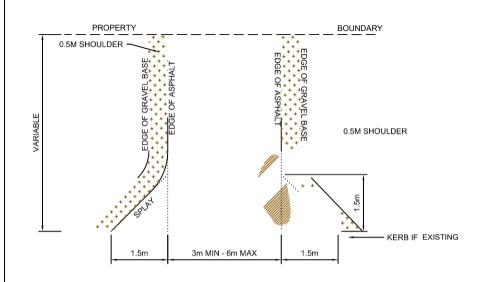
KERBED ROADS ONLY

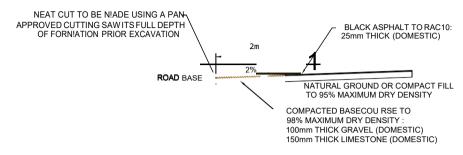
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SHEET 2 OF 4 1:100 @A4

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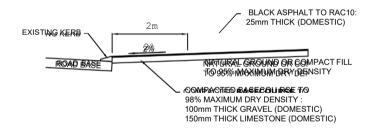




#### CROSS SECTION WITHOUT KERB

#### NOTES:

- ON REQUEST AND APPROVAL SPLAYS MAY BE REDUCED (TO AN ABSOLUTE MINIMUM OF 1M X 1M)
- NO EXCAVATED MATERIAL SHALL BE STOCKPILED ON SITE
- EXISTING CONCRETE PATHS IN GOOD CONDITION SHALL NOT BE REMOVED.
- ASPHALT WORK SHOULD NOT BE DONE IN COLD, WINDY OR WET CONDITIONS
  AS THIN LAYERS OF ASPHALT WILL NOT BE COMPACTED ADEQUATELY. THE
  FINISHING WORKS SHALL BE UNDERTAKEN WHILE THE MATERIAL IS HOT
- ASPHALT IN ACCORDANCE WITH IPWEA/AAPA SPECIFICATIONS FOR SUPPLY AND INSTALLATION OF ASPHALT ROAD SURFACING
- A GRAVEL SHOULDER OF 500mm WIDE AND 100mm THICK SHOULD BE PROVIDED AT THE EDGES OF THE CROSSOVER TO FINISH FLUSH WITH THE TOP OF THE ASPHALT SURFACE.
- DRAWING TO BE READ IN CONJUNCTION WITH SHIRE OF CAPEL CROSSOVER INFORMATION PACK



#### CROSS SECTION WITH KERB

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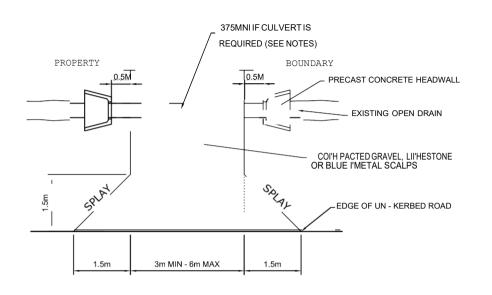
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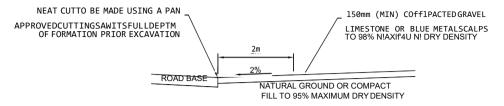
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STANDARD CROSSOVER DETAILS	DRAWING NO.	
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ASPHALT CROSSOVER	SHEET 3 OF 4	1:10O @A4
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#### CROSS SECTION WITHOUT CULVERT

# 150mm (MIN) CON! PACTED GRAVEL LIMESTONE OR BLUE NIETAL SCALPS TO 98% MAXIMUM DRY DENSITY 300mm (MINI MUM) 2% ROAD BASE NATURAL GROUND OR COMPACT FILL TO 95% MAXIMUM DRY DENSITY

**CROSS SECTION WITH CULVERT** 

#### NOTES:

- NO EXCAVATED MATERIAL SHALL BE STOCKPILED ON SITE
- CULVERTS ARE REQUIRED IF THE VERGE HAS AN EXISTING OPEN DRAIN
- CULVERTS ARE TO BE IN ALIGNMENT WITH EXISTING OPEN DRAIN
- DRAWING TO BE READ IN CONJUNCTION WITH SHIRE OF CAPEL CROSSOVER INFORMATION PACK

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STANDARD RURAL CROSSOVER DETAILS

UNSEALED CROSSOVER AND CULVERT DETAILS

RURAL/SEMI RURAL ONLY

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X-OVER STD4

SHEET 4 OF 4 1:100 @A4

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