

## **RESIDENCE AND COMMERCIAL VEHICLE CROSSING SPECIFICATION**

### **1. GENERAL NOTES**

- A Vehicle Crossing permit is required.
- Street channel section to be cast integrated with crossing, no bull nose to be constructed.
- Concrete strength 25 MPa.
- Contraction joints shall be provided as per the Plan 1.1
- Where the new crossing is jointed to an existing crossing, provide 12mm deformed steel tie bars, 450mm length (225mm each side of the joint), spacing 300mm.
- Council's inspection officer to have discretion to vary standard, depending on existing street conditions, that is: crossing shape, charcoal colour and the treatment of street channel.
- To prevent vehicles scaping or bottoming, change in grade in excess of:
  - 12.5 percentage algebraically (1 in 8) for summit grade change or
  - 15 percent algebraically (1 in 6.7) for sag grade changes.
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- Concrete colour to be natural. (Unless change is approved by the council).
- Kerb transition to be 0.5m.
- Refer to Australian Standard 2890.1 to ensure vehicles are not subject to scraping.
- Dowel bar should have a min length of 350mm and 150mm overlap in both directions.
- Contraction joint need to give at distance of 1m from the road.
- Layback area must be maintained my owners.

## **2. DESIGN STATEMENT**

The concrete vehicle crossing is a smooth and continuous surface that is economical, durable and easy to maintain and enables vehicular access from the street to private property. The vehicle crossing provides a smooth transition from the abutting areas (nature strip/footpath) with no steps. Council specifies the shape and construction details to protect Council's assets; however, it is up to the applicant to engage a qualified person to ensure that the levels of the crossing will allow appropriate access without the vehicle scraping. If this also requires alteration of the levels of the abutting Council assets, permission for this must be obtained from the relevant Council officer.

## **3. APPLICABLE LOCATION**

The concrete vehicle crossing should be used where there are concrete footpaths and in situ concrete kerb and channel and barrier kerb and channel. The vehicular crossing should be graded flush with existing channels and footpaths to create a continuous smooth surface. A vehicle crossing permit must be obtained from Bland Shire Council to construct/alter/remove a vehicle crossing. The permit should be taken from the council before work commencement.

## **4. CROSS REFERENCE DOCUMENT**

- AS 1428 (Australian Specification and Standard Design for
- Access and Mobility).
- AS2890.1-2004 (Australian Standard for Parking Facilities –
- Off Street Parking)
- Austroad Guide to the Management Part 11- Parking

## 5. STANDARD SPECIFICATION

Refer to Notes 1-14 as detailed in general notes.

See Cross Reference Documents for relevant specifications.

SUPPLIER: N/A

## 6. MAINTENANCE

**6.1 Street Cleansing Unit:** Channel of vehicular crossing to be cleaned as per current schedule.

**6.2 Roads Unit:** Channel to be maintained.

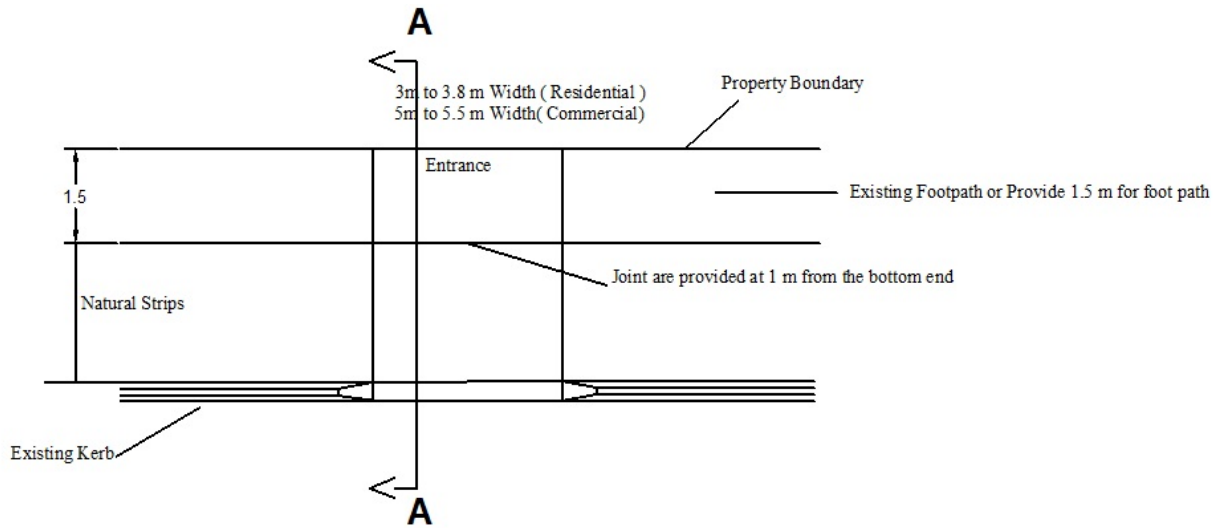
**6.3 Property Owner:** The maintenance of vehicle crossings is the responsibility of the property owners.

Basic Dimensions of the vehicle Crossing is Mentioned in The Table 1

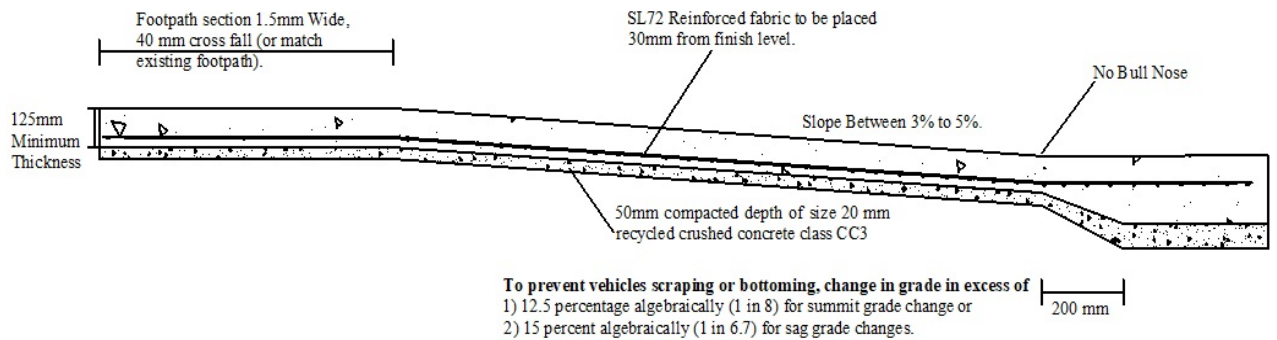
Type of property	Width		Thickness	Reinforcement
	Min	Max	T	
Residential	3 m	3.8 m	125 mm	SL72 top
Commercial	5 m	5.5 m	150 mm	SL72 top and bottom

*Table 1: Dimensions*

## 7. Structural Drawing and Specification



### 1.1 Plan of Residential Vehicle Crossing.



### 1.2 Section (A-A) of Vehicle Crossing