



Rural/Urban Vehicle Crossings Standards and Guidelines

Date: March 2020



Vehicle Crossings

Definition

Vehicle crossing means the area of land used for access from the road to the property boundary. It includes kerbs, culverts, bases, surfaces and paving of all types and footpath sections.

Introduction

This Booklet sets out South Waikato District Council's safety considerations and standards for vehicle crossings within the District for construction of new, repair or widening of any vehicle crossing for both rural and urban. The Booklet contains the following sections.

1. Purpose
2. Safety Issues
3. Policies
4. Council Requirements
5. Inspections and Approvals
6. Sight Distances
7. Standard Drawing and Guidelines

Note: For any vehicle crossings onto State Highways please contact New Zealand Transport Agency through Opus Consultants Taupo, ph: (07) 378 0746.

Purpose

- To provide safe, well constructed, uniform and efficient property access throughout the District.

Safety Issues

- Sight distances
- Length to meet vehicle turning requirements
- Location/alignment at intersections
- Defined Level of Service to be maintained

Policies

- South Waikato District Council - District Plan
- South Waikato District Council – Code of Practice for Subdivision and Development
- Public Places Bylaw 2011

Council Requirements

- Any person wishing to construct, repair, remove or widen any vehicular crossing shall first obtain approval from the South Waikato District Council, prior to the commencement of construction.
- Any person wishing to construct, relocate, extend an entrance must apply for a Corridor Access Request (CAR), through the completion of a submission form on www.beforeudig.co.nz. (The submission allows other service providers to issue plans of their services to you, and request any special conditions they may require.)
- A Temporary Traffic Management Plan (TMP) (completed by a suitable qualified person) must be lodged at least 2 days prior to the planned commencement of construction.
- All new entrance ways, replacement of existing entrances, and extensions/upgrading of existing entrances, shall be constructed to the appropriate Council standard and at the applicant's cost.

Inspections and approval

- The applicant will notify Council prior to commencing to confirm location and standard required, and on completion of final surfacing, to allow the opportunity to inspect the vehicle crossing.
- Vehicle entrances constructed without Council inspections will be deemed as an illegal entrance.
- Final approval will be issued once the vehicle crossing has been inspected and deemed satisfactory.

Standards/Guidelines

- Where a kerbline and footpath exist (eg in urban areas) a vehicle crossing shall be provided between the kerbline and back of the footpath at the entrance to all entrance strips to rear lots, accessways and service lanes and for any other lot where the location of the future driveway to the lot can be determined with reasonable certainty.
- Details of recommended forms of minor urban crossings are indicated in Figure D3.3.4.
- Details of recommended forms of industrial/commercial crossings are indicated in Figure D3.3.1.
- Where a footpath exists in permanent material and good condition, it may be incorporated into the crossing, providing the resultant gradient is not more than 1 in 8.
- Where crossings may be expected to carry heavy traffic, these shall be specifically designed and the depth increased or reinforcing provided, or both, to the Engineer's requirement.

Table 1 – Sight Distances (RITS 6) Guidelines for visibility at driveways

Posted Speed (km/h)	Minimum Sight Distance to and from crossing (in metres) (S)	Minimum Distance between a crossing and an intersection (in metres - measured centerline to centerline)	Minimum distance between a SH and a crossing down a side road (in metres - measured crossing centerline to near boundary of SH)	Minimum distance between crossings (in metres)
100	250	200	250	200
80	170	120	175	100
70	140	100	140	
60	115	50	115	
50	85	30	90	

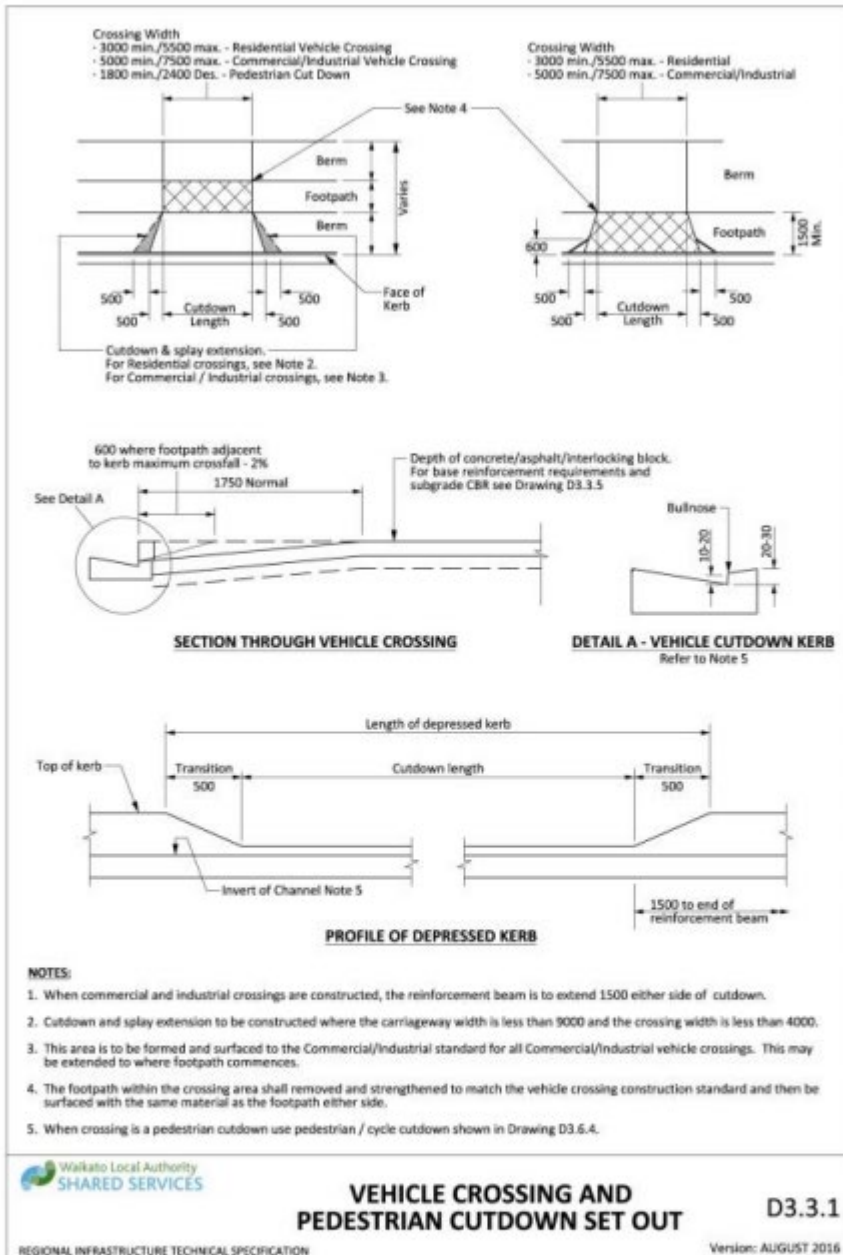
Standard Drawings

- | | | |
|---|---------------|------------------|
| • Residential | Figure D3.3.4 | Drawing No:1 |
| • Light and heavy commercial | Figure D3.3.4 | Drawing No: 2 |
| • Heavy Commercial | Figure D3.3.4 | Drawing No: 3 |
| • Vehicle Crossing profile. | Figure D3.3.2 | Drawing No:3-14 |
| • Vehicle crossing and pedestrian cutdown set out | Figure D3.3.1 | Drawing No: 3-13 |

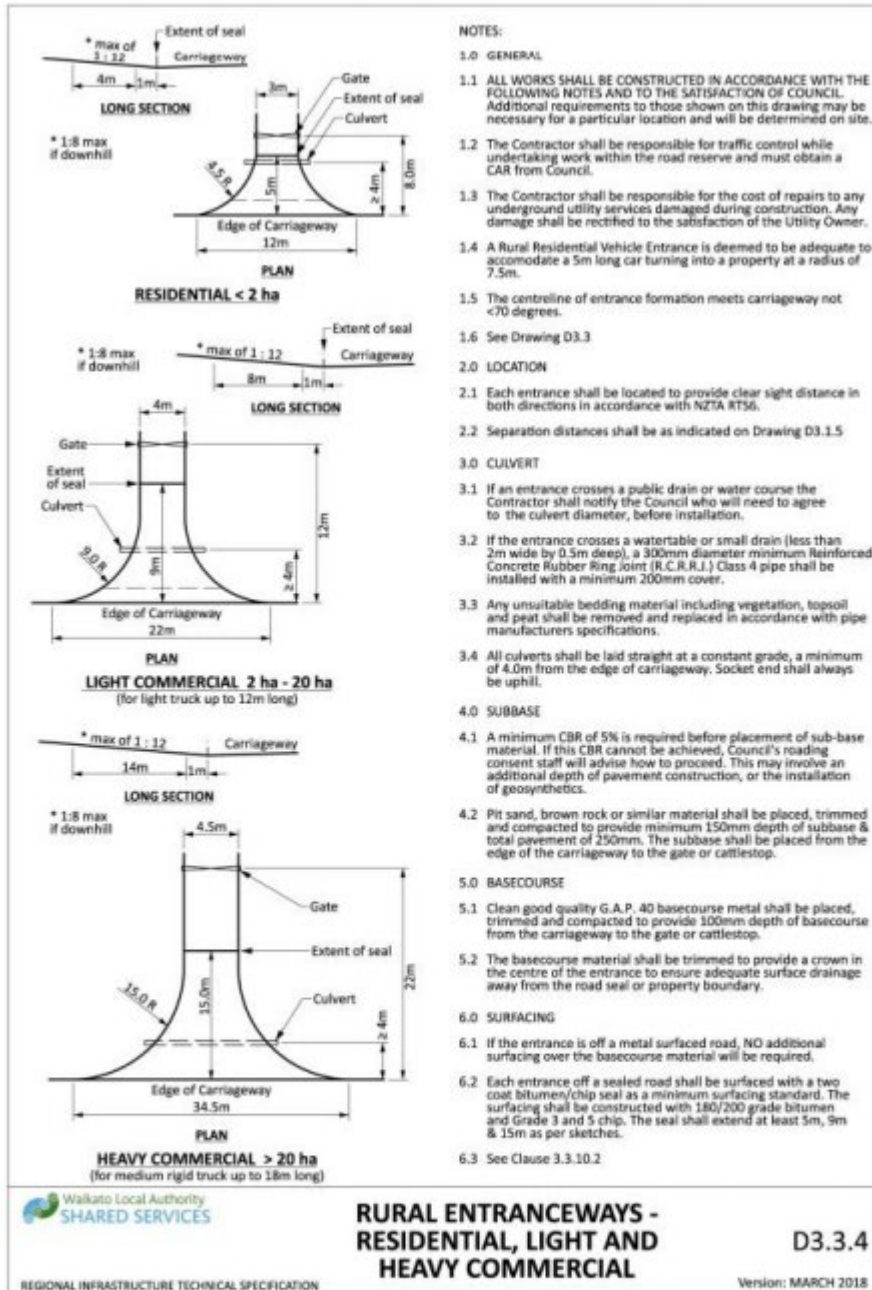
Waikato Local Authority Shared Services

Regional Infrastructure Technical Specifications (RITS)

<https://waikatolass.co.nz/wp-content/uploads/2019/01/Regional-Infrastructure-Technical-Specification-V1.0.pdf>



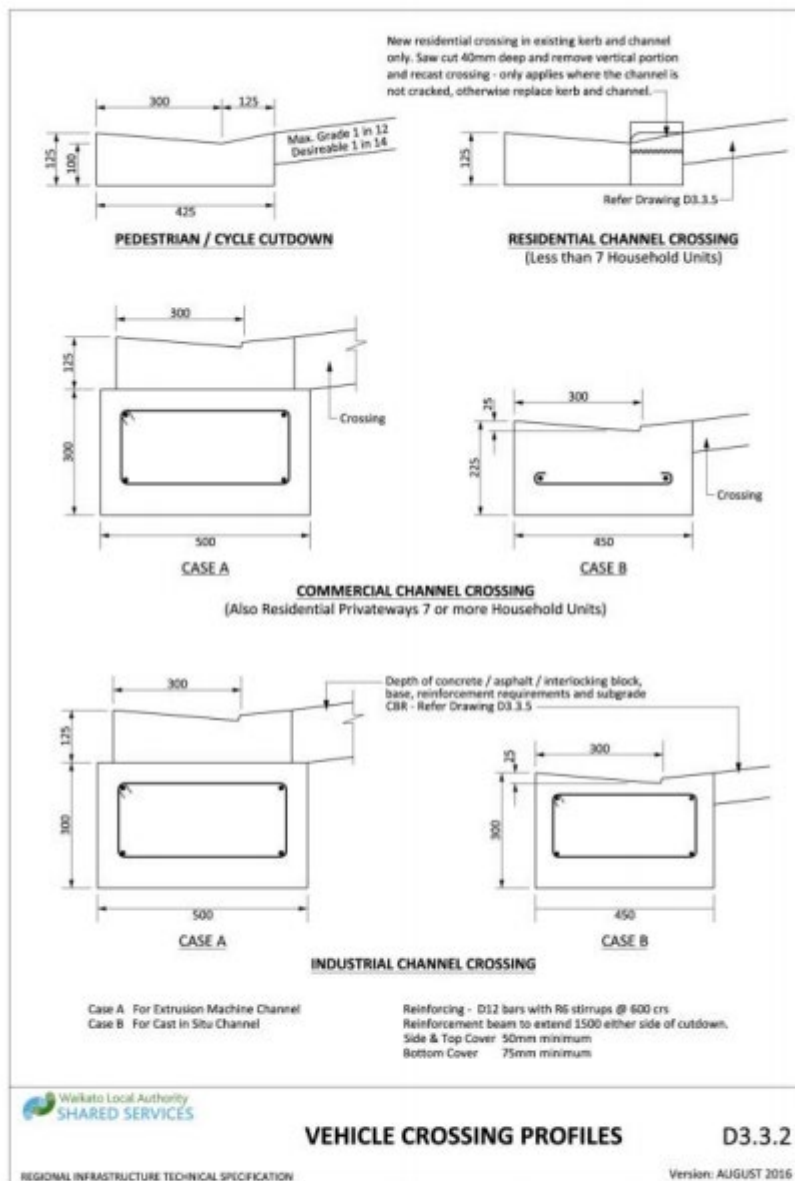
Drawing 3-13: Vehicle crossing and pedestrian cutdown set out




NOTES:

- 1.0 GENERAL
- 1.1 ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND TO THE SATISFACTION OF COUNCIL. Additional requirements to those shown on this drawing may be necessary for a particular location and will be determined on site.
- 1.2 The Contractor shall be responsible for traffic control while undertaking work within the road reserve and must obtain a CAR from Council.
- 1.3 The Contractor shall be responsible for the cost of repairs to any underground utility services damaged during construction. Any damage shall be rectified to the satisfaction of the Utility Owner.
- 1.4 A Rural Residential Vehicle Entrance is deemed to be adequate to accommodate a 5m long car turning into a property at a radius of 7.5m.
- 1.5 The centreline of entrance formation meets carriageway not <70 degrees.
- 1.6 See Drawing D3.3
- 2.0 LOCATION
- 2.1 Each entrance shall be located to provide clear sight distance in both directions in accordance with NZTA RT56.
- 2.2 Separation distances shall be as indicated on Drawing D3.1.5
- 3.0 CULVERT
- 3.1 If an entrance crosses a public drain or water course the Contractor shall notify the Council who will need to agree to the culvert diameter, before installation.
- 3.2 If the entrance crosses a watertable or small drain (less than 2m wide by 0.5m deep), a 300mm diameter minimum Reinforced Concrete Rubber Ring Joint (R.C.R.R.J.) Class 4 pipe shall be installed with a minimum 200mm cover.
- 3.3 Any unsuitable bedding material including vegetation, topsoil and peat shall be removed and replaced in accordance with pipe manufacturers specifications.
- 3.4 All culverts shall be laid straight at a constant grade, a minimum of 4.0m from the edge of carriageway. Socket end shall always be uphill.
- 4.0 SUBBASE
- 4.1 A minimum CBR of 5% is required before placement of sub-base material. If this CBR cannot be achieved, Council's roading consent staff will advise how to proceed. This may involve an additional depth of pavement construction, or the installation of geosynthetics.
- 4.2 Pit sand, brown rock or similar material shall be placed, trimmed and compacted to provide minimum 150mm depth of subbase & total pavement of 250mm. The subbase shall be placed from the edge of the carriageway to the gate or cattlestop.
- 5.0 BASECOURSE
- 5.1 Clean good quality G.A.P. 40 basecourse metal shall be placed, trimmed and compacted to provide 100mm depth of basecourse from the carriageway to the gate or cattlestop.
- 5.2 The basecourse material shall be trimmed to provide a crown in the centre of the entrance to ensure adequate surface drainage away from the road seal or property boundary.
- 6.0 SURFACING
- 6.1 If the entrance is off a metal surfaced road, NO additional surfacing over the basecourse material will be required.
- 6.2 Each entrance off a sealed road shall be surfaced with a two coat bitumen/chip seal as a minimum surfacing standard. The surfacing shall be constructed with 180/200 grade bitumen and Grade 3 and 5 chip. The seal shall extend at least 5m, 9m & 15m as per sketches.
- 6.3 See Clause 3.3.10.2

Drawing 3-16: Rural entranceways - residential, light and heavy commercial



Drawing 3-14: Vehicle crossing profiles

Application To Form A Vehicle Crossing (Entrance)	 South Waikato District Council
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Made under the South Waikato District Council Public Places Bylaw 2011

Rural/Urban Crossing Standards and Guidelines are available from Council Service Centres

Property Owner

Contractor

Name: _____ Postal Address: _____ _____ Phone No: _____	Name: _____ Postal Address: _____ _____ Phone No: _____
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Address of Proposed Vehicle Entrance

Address: _____ Legal Description/Valuation No: _____

Notes:

Approval of your application is for 12 months, with your vehicle entrance to be completed within that period.

It is the property owner's responsibility to arrange the pay for the construction of a vehicle entrance.

A vehicle entrance constructed without Council approval and inspections will be deemed as an illegal entrance.

A vehicle entrance must be formed to top-course stage prior to the commencement of any building work.

Yourself or your Contractor will need to apply for a Corridor Access Request for any work undertaken within the road or road reserve.

Yourself or your Contractor will need to complete a Temporary Traffic Management Plan (Council to approve) at least 2 days prior to construction commencing. (If there is a need for public notification, a road closure for example, then additional notice is required.)

Entrance Type:

- Residential
- Rural
- Commercial/Industrial

Construction Activity:

- New
- Upgrade
- Removal

TO COMPLETE THIS APPLICATION, PLEASE READ AND SIGN THE REVERSE SIDE OF THIS SHEET

Declaration:

I will notify Council two working days prior to excavation to confirm location and entrance requirements.

I will construct a vehicle crossing (entranceway) that complies with Council specifications as laid out in Rural/Urban Vehicle Crossings Standards and Guidelines Booklet.

I will notify Council on completion of the work.

I understand that all costs are the responsibility of the property owner and that a vehicle crossing that does not meet Council specifications, will be upgraded at the property owner's cost.

I understand that I will be responsible for any costs associated with any repair work required as a result of settlement or poor workmanship during a 12 month period of maintenance.

Owner's Signature:

Signature: _____ Name: _____ Date: _____

Approving Engineer: _____ Date: _____

Installation to be completed within 1 months of receiving engineering approval

For Office Use

Receipt No. _____

Route Position _____ Side _____

Inspection Type	Date	Inspected by	Comments	Approval
Location				
Completion				

Additional Inspections: Date _____ Comments _____

Entered into RAMM

Placed on Property

