



## Zebra Crossings

A threatened species in NZ?

# The 'why'

Table 6.4 – Time separated and priority control measures and their typical crash reductions

Measure	Pedestrian crash reduction
Zebra crossing on a pedestrian platform <sup>[145]</sup>	80%
Mid-block traffic signals <sup>[145]</sup>	45%
Zebra crossings with no physical aids <sup>[53]</sup>	-28%
School patrol crossing <sup>[53]</sup>	35%
Intersection traffic signals – parallel pedestrian phase <sup>[53]</sup>	-8%
Intersection traffic signals – exclusive pedestrian phase <sup>[53]</sup>	29%

Source: Pedestrian Planning and Design Guide 2009

# Modifications...

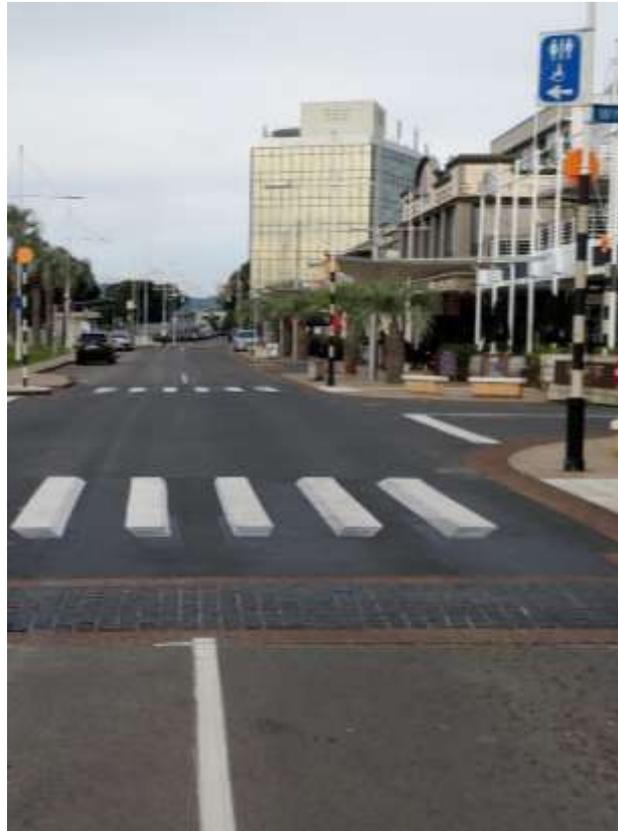
## Technical guidance...

- 1989: technical recommendation (TR11).
  - establish standards for pedestrian crossings
  - Paper states that "...traffic engineers were becoming increasingly concerned over the conventional zebra crossing's poor safety record"
- 2006: Traffic Note 1 (LTNZ, 2006)
  - highlight the correct layout for pedestrian crossings
  - outline relevant road user rules
- 2011: Traffic Note 1 (NZ TA 2011)
  - updated and reissued again..!
  - highlight correct installation of pedestrian crossings.

# Modified zebra crossings



Napier



Tauranga



Dunedin

# Bespoke pedestrian treatments



Auckland



Dunedin



Dunedin

# Platforms



Wanaka



Dunedin



Dunedin

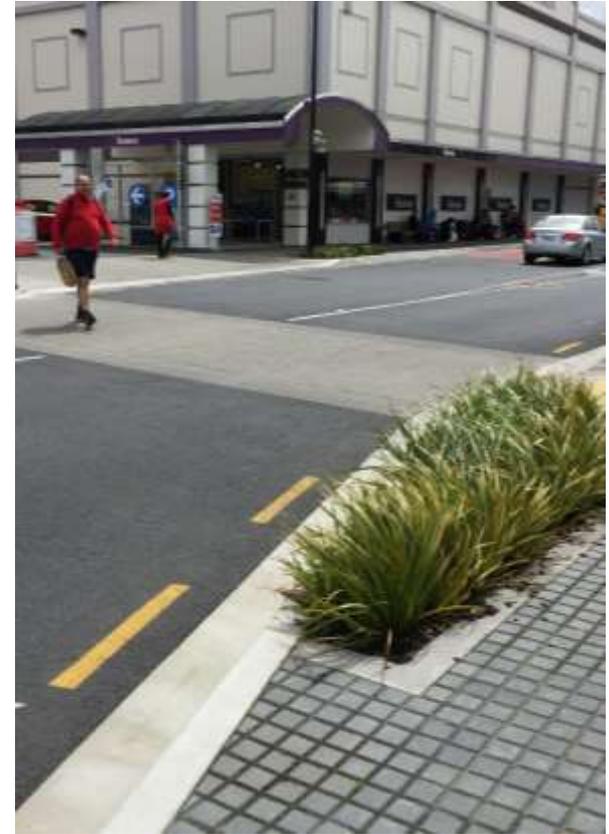
# Courtesy Crossings



Oamaru



Dunedin



Dunedin

# Intuitive??



Reluctant nonchalantly jolt across a courtesy crossing. Photo: Jorly Dine

Local

## What's the deal with ... Speed bumps or pedestrian crossings?

By Jorly Dine - July 26, 2018

3145



## Driver on courtesy crossing crusade to make Blenheim safer

ELENA MCPHILL - 08/08, Mar 16 2017



Safe-Banquet warns 'have way' signs at courtesy crossings to make the road safer for pedestrians and

## Courtesy crossing confusion? Here's a handy guide for pedestrians and drivers

John Edens - 14:57, Mar 16 2017



STUFF

## Woman's warning after car hits her on crossing



A woman who was struck by a car on a courtesy crossing is asking impatient motorists to take more care over the busy summer holidays.

Elyse Murphy braved for her the moment she braced for impact and, although she wasn't hurt, her wheelchair was badly damaged and her confidence crossing the street took a knock.

Murphy has used a wheelchair for 10 years and takes "great caution" whenever crossing the road but, before she knew it, it was too late to dodge a driver from out of town who collided with her while crossing Devon St in Feilding.

The driver told Murphy she was lost, had panicked at a nearby roundabout and didn't see her crossing the street. She also didn't understand what a courtesy crossing was.

"I was so tired, I usually wait for everyone to stop or until they are aware of me.

"The world is busy and everyone is in such a rush, but people need to be cautious. Personally, as a driver, I'd have



# What is a Courtesy Crossing?

## NZ Road Code

Courtesy crossings are **usually** made of bricks or paving and are **often raised** above the level of the road.

Although not official pedestrian crossings, they do provide a place for pedestrians to cross. Drivers should be courteous to pedestrians using a courtesy crossing.



# Design & Layout – NZ, Aus & UK



	<b>New Zealand - MOTSAM</b>	<b>Australia - MUTCD</b>	<b>United Kingdom – DoT</b>
<b>Bar markings (length)</b>	≥ 2 metres long	3 - 6 metres long	2.4 – 10 metres long
<b>Bar markings (width)</b>	300mm white stripe with 600mm gap 	600mm white stripe with 600mm gap 	Similar to Australia. Each stripe of equal thickness: 500- 715mm wide
<b>Advance warning</b>	White painted diamond (now optional)	Two zig zag lines on either side of the lane (designates no parking)	A single zig zag line in the middle of the lane
<b>Beacon</b>	Flashing belisha beacon or orange disc	n/a	Flashing belisha beacon
<b>Parking restrictions</b>	> <b>6m</b> (8-15m preferred) of no stopping lines on upstream approach.	Minimum of <b>20m</b> on the approach and 10 m on the departure side (for crossings without kerb protrusions)	<b>15m</b> - 35m on both sides of the crossing

# Road Rules – NZ

- New Zealand**
- 10.1 (1) A driver approaching a pedestrian crossing must:
- (a) give way to pedestrians, and to riders of wheeled recreational devices or mobility devices:
    - (i) on the pedestrian crossing; or
    - (ii) obviously waiting to cross it; and
  - (b) if necessary, slow down and stop the driver's vehicle for that purpose.
- 11.5 A pedestrian must not suddenly enter a pedestrian crossing when an approaching vehicle is so close to the pedestrian crossing that the driver of the vehicle is unable to give way to the pedestrian.

# Road Rules - Australia

## **Australia**

“ARR 81: Giving way at a pedestrian crossing

- (1) A driver approaching a pedestrian crossing must drive at a speed at which the driver can, if necessary, stop safely before the crossing.
- (2) A driver must give way to any pedestrian or bicycle rider on or entering a pedestrian crossing”

ARR 236: A pedestrian must not cause a traffic hazard by moving into the path of a driver.

# AA Member survey

## Who should give way?

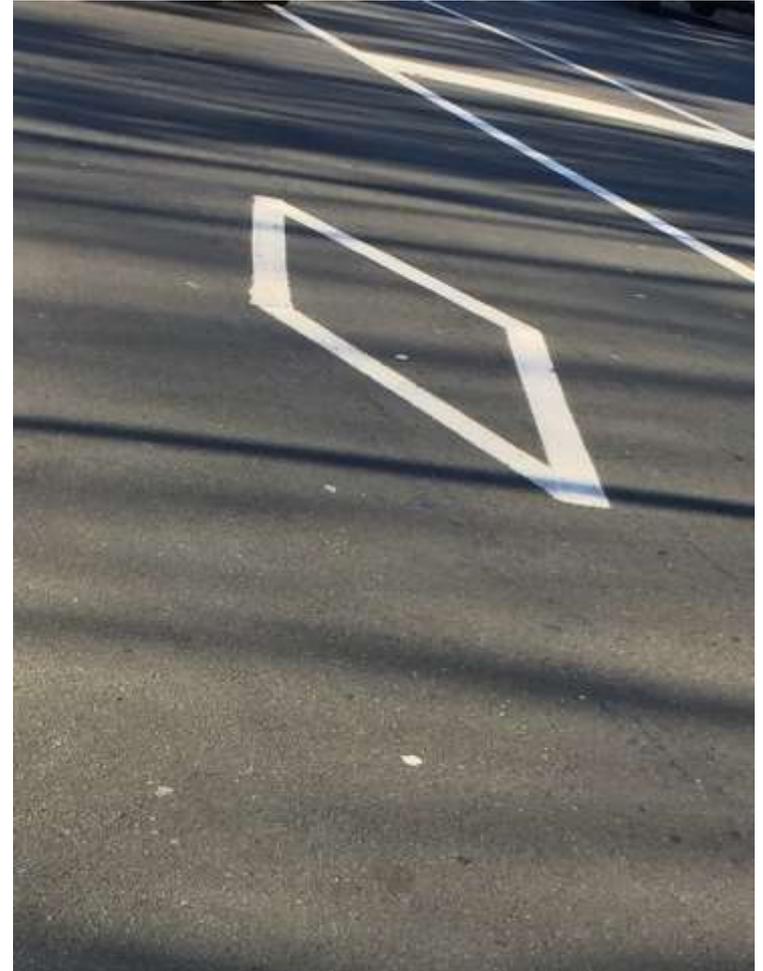
Pedestrian Treatment	Incorrect answer	Not sure	Total
Zebra crossing	2.1%	0.1%	<b>2.2%</b>
3D Zebra Crossing	2.0%	0.2%	<b>2.2%</b>
Refuge island	3.7%	0.8%	<b>4.6%</b>
Shared zone	55.0%	11.4%	<b>66.4%</b>
Courtesy crossing 1	21.6%	3.9%	<b>25.5%</b>
Courtesy crossing 2	25.8%	6.1%	<b>31.9%</b>
Cross walk art 1	18.5%	18.0%	<b>36.5%</b>
Cross walk art 2	11.1%	16.5%	<b>27.6%</b>
Bespoke school zone	39.4%	8.7%	<b>48.1%</b>
Threshold treatment	24.5%	3.9%	<b>28.4%</b>



# AA Member Survey - Diamond

## Purpose of the diamond?

- |  |       |
|--|-------|
| 1. To provide a guide for who should give way  | 18.4% |
| 2. To provide a guide for motorists to ensure they are driving in the middle of their lane | 0.3%  |
| 3. To alert drivers that there is a zebra crossing ahead                                   | 73.7% |
| 4. I don't know  | 7.7%  |



# AA Member Survey – Courtesy Crossings

## Do you give way to pedestrians when driving?

- Yes 33.7%
- No 9.8%
- Sometimes 36.4%
- Only if the pedestrian has started to cross 20.1%

## Which road user has to give way?

- Person using the crossing 63.3%
- Driver or rider using the road 15.4%
- They have to work it out between them 15.3%
- I don't know 6.0%

## Land Transport Rule: Traffic Control Devices 2004 - Pedestrian Crossing (New Format) and (Interim Format) Road Markings

Pursuant to subclause 5.4(1A) of Land Transport Rule: Traffic Control Devices 2004 and a delegation from the Waka Kotahi, NZ Transport Agency, I, Glenn Bunting, Network Manager, authorise the installation and maintenance of the road markings described in the Schedule 1, in accordance with the conditions set out in this notice:

### Conditions

#### 1. New Pedestrian Crossings or Remarking Following Resealing

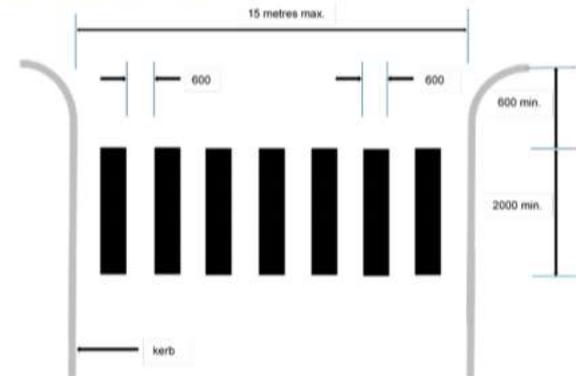
As of the 18 January 2021 any new pedestrian crossing installed or remarked following resealing should be in the M1-1.3, 600 x 600 (new format) as set out in Schedule 1 of this notice.

#### 2. Remarking Existing Pedestrian Crossings

As of the 18 January 2021 all existing M1-1, 300 x 600 pedestrian crossings as set out according to the Land Transport Rule (Traffic Control Devices) 2004, Schedule 2, when being re marked for maintenance, should be remarked in the M1-1.2, 450 x 450 (interim format) as set out in Schedule 1 of this notice.

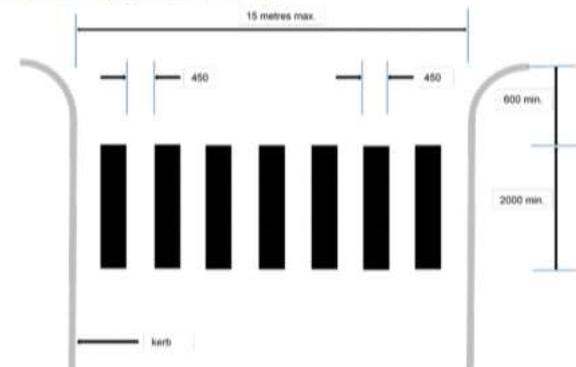
### Schedule 1

#### M1-1.3 Pedestrian Crossing Marking (New Format)



Colour: white (reflectorised)

#### M1-1.2 Pedestrian Crossing Marking (Interim Format)



Colour: white (reflectorised)

Pedestrian  
crossing –  
new format





# AA Member Survey – Zebra Crossings

## Path User Priority at Zebra Crossings

- Pedestrians 99.6%
- Person riding on a mobility scooter 93.2%
- Person riding on a kick scooter 75.1%
- Skateboarders 74.4%
- Person riding on an e-scooter (e.g. Lime scooter) 68.7%
- Person riding a bicycle 65.9%

## 'Noticeability' of zebra crossing elements

- Painted stripes
- Zebra sign
- Belisha beacon
- Orange disc
- Painted diamond
- Black and white striped pole

Most noticeable



Least noticeable