

Queensland Manual of Uniform Traffic Control Devices

Part 9: Bicycle facilities

November 2018

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About this document

The use of signs, markings and other devices on bicycle facilities, based on uniform standards and practices, is essential in the interests of safety for both bicycle riders and other road users. This document sets out the traffic control devices used at bicycle facilities and describes the devices, their use and location. It reflects a community demand for improved bicycle facilities and covers matters including:

- a) A variety of treatments for bicycle lanes on roads including joint-use functions with other vehicle types and full- or part-time operation
- b) Treatment of bicycle lanes at signalised and unsignalised intersections
- c) A variety of treatments for off-road bicycle paths, both exclusive use and shared with pedestrians
- d) Mid-block road crossings of bicycle paths
- e) Provisions for bicycles on freeways
- f) Requirements for navigational aids (direction signs and the link) expressed as a series of design principles rather than prescription forms of signposting.

How to use this document

This document is designed to be read and applied together with AS 1742.9-2017 *Manual of Uniform Traffic Control Devices Part 9* (AS 1742.9-2018). You must have access to the Australian Standard to understand what applies in Queensland.

This document:

- sets out how AS 1742.9-2018 applies in Queensland
- has precedence over AS 1742.9-2018 when applied in Queensland
- has the same section and clause numbering and headings as AS 1742.9-2018.

The following table summarises the relationship between AS 1742.9-2018 and this document:

Applicability	Meaning
Accepted	The Australian Standard section or clause is accepted.
Accepted, with amendments	Part or all of the section or clause has been accepted with additions, deletions or differences.
New	There is no equivalent section or clause in the Australian Standard.
Not accepted	The Australian Standard section or clause is not accepted.

Definitions

The following general amended definitions apply when reading AS 1742.2-2009.

Reference to...	Means
AS 1742.9-2018	<p>AS 1742.9-2018, as amended by this document</p> <p>For example, a reference to AS 1742.9-2018 means you must refer to the Australian Standard Part 9, and Part 9 of the Queensland Manual of Uniform Traffic Control Devices (Queensland MUTCD).</p> <p>Throughout AS 1742.9-2018, references are made to other parts of the Australian Standards (for example, when reading Part 9 you may be referred to Part 3 for further information.) In this case, you must refer to the equivalent Part within the Queensland MUTCD first. Check the applicability of the equivalent Part in the Queensland MUTCD before referring to the referenced Australian Standard Part.</p>
TRUM	Traffic and Road Use Management Manual
Queensland (Q) series / Traffic Control (TC) signs	<p>Queensland (Q) series signs can be found via:</p> <p style="text-align: center;">http://www.tmr.qld.gov.au/business-industry/Technical-standards-publications/TC-signs</p> <p>It also provides some additional examples of the Australian Standard signs used for Queensland.</p>

Relationship table

Section	Clause	Description	Applicability
1	Scope and general		
	1.1	Scope	Accepted
	1.2	Objective	Accepted
	1.3	Referenced documents	Accepted with amendments
	1.4	Definitions	
	1.4.1	<i>Bicycle lane</i>	Accepted
	1.4.2	<i>Bicycle path</i>	Accepted
	1.4.3	<i>Footpath</i>	Accepted
	1.4.4	<i>May</i>	Accepted
	1.4.5	<i>Path</i>	Accepted
	1.4.6	<i>Separated path</i>	Accepted
	1.4.7	<i>Shall</i>	Accepted
	1.4.8	<i>Shared path</i>	Accepted
	1.4.9	<i>Should</i>	Accepted with amendments
	1.4.10	<i>Bicycle</i>	New
	1.5	Signs – General requirements	Accepted
1.6	Colour	Accepted with amendments	
2	Bicycle provisions on arterial roads and local streets		
	2.1	General	Accepted with amendments
	2.2	Signs	Accepted with amendments
	2.2.1	Bicycle activated warning signs	New
	2.3	Pavement markings	
	2.3.1	<i>General</i>	Accepted
	2.3.2	<i>Other pavement markings</i>	Accepted with amendments
	2.3.3	<i>Pavement colour</i>	Accepted with amendments
	2.4	Bicycle provisions mid-block	
	2.4.1	<i>Bicycle lane (full-time)</i>	Accepted with amendments
	2.4.2	<i>Bicycle lane (part-time)</i>	Accepted
	2.4.3	<i>Bicycle lane adjacent to car parking bays</i>	Accepted
	2.4.4	<i>Advisory treatments</i>	Accepted with amendments
	2.4.5	<i>Bicycle contraflow facility</i>	Accepted
	2.5	Bicycle lane treatments at intersections	
	2.5.1	<i>General</i>	Accepted
	2.5.2	<i>Intersection at minor streets</i>	Accepted with amendments
	2.5.3	<i>Signalized intersections</i>	Accepted

Section	Clause	Description	Applicability
	2.5.4	<i>Treatments at left turn slip lanes</i>	Accepted
	2.5.5	<i>Roundabouts</i>	Accepted
	2.6	<i>Bus stops</i>	New
3	Bicycle path and footpath provisions		
	3.1	General	Accepted
	3.2	Signs	Accepted with amendments
	3.3	Pavement markings	Accepted with amendments
	3.4	Footpaths and shared paths	Accepted
	3.5	Separated paths	Accepted
	3.6	Bicycle paths	Accepted
	3.7	Road crossings mid-block	
	3.7.1	<i>Summary of treatments</i>	Accepted
	3.7.2	<i>Road traffic gives way</i>	Accepted
	3.7.3	<i>Path traffic gives way</i>	Accepted with amendments
	3.7.4	<i>Traffic signal control</i>	Accepted with amendments
	3.8	Road crossings at intersections	
	3.8.1	<i>Unsignalized intersections</i>	Accepted
	3.8.2	<i>Signalized intersections</i>	Accepted with amendments
4	Bicycle provisions on expressway type roads		
	4.1	General	Accepted
	4.2	Signs	Accepted
	4.3	Application of signs to freeway interchanges	Accepted with amendments
	4.4	Pavement markings	New
5	Navigational aids for cyclists		
	5.1	General	Accepted
	5.2	Bicycle symbol	Accepted
	5.3	Colour and reflectorization	
	5.3.1	<i>Colour</i>	Accepted
	5.3.2	<i>Reflectorization</i>	Accepted
	5.4	Direction signs	Accepted
5.5	Location of signs	Accepted	
Appendices			
A	Illumination and reflectorization of signs (normative)		
	A1	<i>Scope</i>	Accepted
	A2	<i>General</i>	Accepted
	A3	<i>Means of illumination</i>	Accepted
	A4	<i>Means of reflectorization</i>	Accepted

Section	Clause	Description	Applicability
B		Installation and location of signs	
	B1	Scope	Accepted
	B2	Uniformity of location	
	B2.1	General	Accepted
	B2.2	Longitudinal placement	Accepted
	B2.3	Lateral placement and height of signs on or adjacent to roadways	
	B2.3.1	General	Accepted
	B2.3.2	Lateral placement – Rural roads	Accepted
	B2.3.3	Lateral placement – Urban roads	Accepted
	B2.3.4	Height – Rural roads	Accepted
	B2.3.5	Height – Urban roads	Accepted
	B2.3.6	Overhead mounting	Accepted
	B2.4	Placement of signs on paths	Accepted
	B3	Sign orientation	Accepted
C		Selection of appropriate sign size	
	C1	Scope	Accepted
	C2	Size of signs	Accepted
	C3	General principles for size selection	Accepted

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1 Scope and general

1.3 Referenced documents

Addition

Transport Operations (Road Use Management) Act 1995.

1.4 Definitions

1.4.9 Should

Addition

Indicates a recommendation. Where the word 'should' is used, it is considered to be recommended usage, but not mandatory. Any recommendation that is not applied must be based on sound traffic engineering judgement and documented.

1.4.10 Bicycle

New

As defined in Schedule 4 *Definitions* of the *Transport Operations (Road Use Management) Act 1995*.

1.6 Colour

Addition

To accommodate different materials and varying conditions, an approximate colour match to one of the following three AS2700 S greens is permitted – G13 Emerald, G16 Traffic green or G23 Shamrock. Approximate colour match is determined in accordance with AS/NZS 1580.601.1. A consistent green colour should be provided along a route or within a given locality.

2 Bicycle provisions on arterial roads and local streets

2.1 General

Difference

Item (f), replace 'Clause 4.1' with 'Clause 2.4.4(c)'.

2.2 Signs

Difference

Item (l) *WATCH FOR Bicycles (G9-57)*, first paragraph, change 'shall be' to 'may' to read:

The *WATCH FOR Bicycles* sign *may* be used at locations...

Addition

- Item (l) *WATCH FOR Bicycles (G9-57)*, add last paragraph:
For the cases in Items (iii), (iv) and (v), the sign may be mounted below any appropriate STOP, GIVE WAY or Roundabout regulatory sign.
- Item (m) *Cyclists DISMOUNT (G9-58)*. add items (iii) STAIRCASE and (iv) PEDESTRIAN MALL.

2.2.1 Bicycle activated warning signs

New

Warning signs may be implemented as electronic bicycle-activated warning signs, refer *Traffic and Road Use Management (TRUM) manual Volume 1 Guide to Traffic Management Part 10 Traffic control and communication devices Section 5.6.9-1 Bicycle activated warning signs*.

2.3 Pavement markings

2.3.2 Other pavement markings

Addition

(c) *Pavement arrow* Pavement arrows may be used in conjunction with the bicycle symbol where a bicycle lane has been provided on the approach to traffic signals (see Figure 2.10) where some movements are restricted. The arrow is white in colour.

2.3.3 Pavement colour

Addition

For further information on the use of pavement colours in bicycle lanes, refer *Traffic and Road Use Management (TRUM) manual Volume 1 Guide to Traffic Management Part 10 Traffic control and communication devices*.

2.4 *Bicycle provisions mid-block*

2.4.1 **Bicycle lane (full time)**

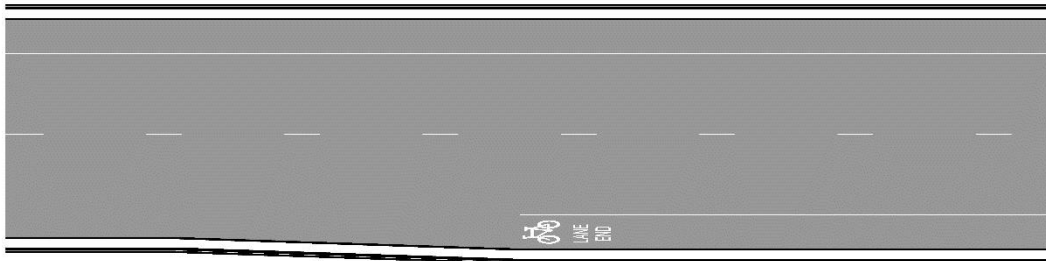
Addition

Bicycle lane terminations at mid-block should be pavement marked as per Figure 2.4.1(A). TC1878 and TC1864 SHARE THE ROAD warning sign and supplementary plate should be installed downstream of a mid-block bicycle lane termination.

Additional advisory pavement markings should be provided at the bicycle lane departure points and merging point into the adjacent lane as per the TRUM manual Volume 1 Part 10, Section 6.5-1: *Bicycle Awareness Zones*. Warning and awareness raising signage should also be installed, such as G9-57.

In situations where a transition to an off-road bicycle facility can be provided, signage and pavement markings should be provided in accordance with TC1962 *Narrowing Cycle Lane Layout*.

Figure 2.4.1(A)– Preferred pavement marking of mid-block bicycle lane termination



2.4.4 **Advisory treatments**

Addition

Information on advisory treatments is contained in the TRUM manual Volume 1 parts 8 *Local area traffic management* and 10 *Traffic control and communication devices*.

2.5 *Bicycle lane treatments at intersections*

2.5.2 **Intersection at minor streets**

Addition

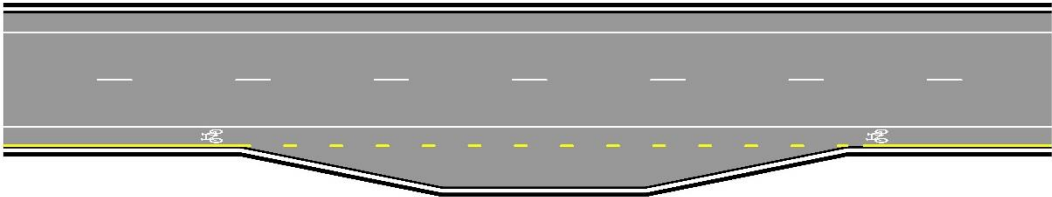
Refer to Figure 2.9(d). Where motor vehicles need to drive in a bicycle lane more than 50 metres in advance of the intersection, TC1769 sign SHARE BICYCLE LANE FOR LEFT TURN shall be installed.

2.6 *Bus stops*

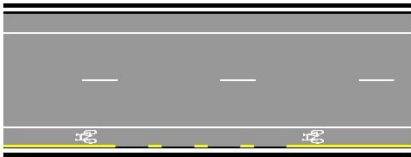
New

The bicycle lane should remain unbroken through the bus stop. An additional broken yellow line shall be used to define the parking restriction in the bus stop bay area, examples are shown in Figure 2.6.

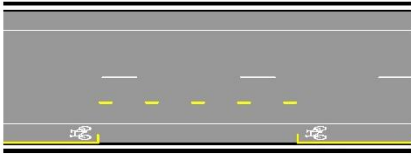
Figure 2.6 – Marking of bicycle lanes past bus stop



(a) Indented bay



(b) Inline



(c) Inline box

3 Bicycle path and footpath provisions

3.2 Signs

Difference

- Replace item (a) *Give way (R1-2)* with:

(a) *Give way (R1-2)*

This sign may need to be used on a bicycle path or shared path on the approach to a road crossing to reinforce the requirement that bicycle traffic needs to give way to road traffic. A give way line [see Clause 3.3(f)] shall be used in conjunction with this sign. A STOP sign may be needed in extreme circumstances not amenable to other treatments. Refer to MUTCD Part 2, Figure 2.2, Note 5.

A special reduced size sign is specified for path use (see Table 3.1). For added emphasis, the R1-2A size sign may be used. The give way pavement symbol may be used in lieu of this sign (see Clause 3.3(g)).

- Item (g) *Pedestrian warning (W6-1)*, *Bicycle warning (W6-7)*, *Bicycle / pedestrian warning (W6-9)*, *Crossing arrows (W8-23)*, replace W6-1 sign with:



Addition:

- Item (e) *Shared path (R8-2)*, add:

Queensland road rules allow bicycle riders of any age to use footpaths. Shared Path signs are typically used to designate higher standard facilities where path width is 2.5 m or greater and higher bicycle volumes and speeds may be expected.

- Item (k) *Slippery for bicycles (W6-11)*, add:

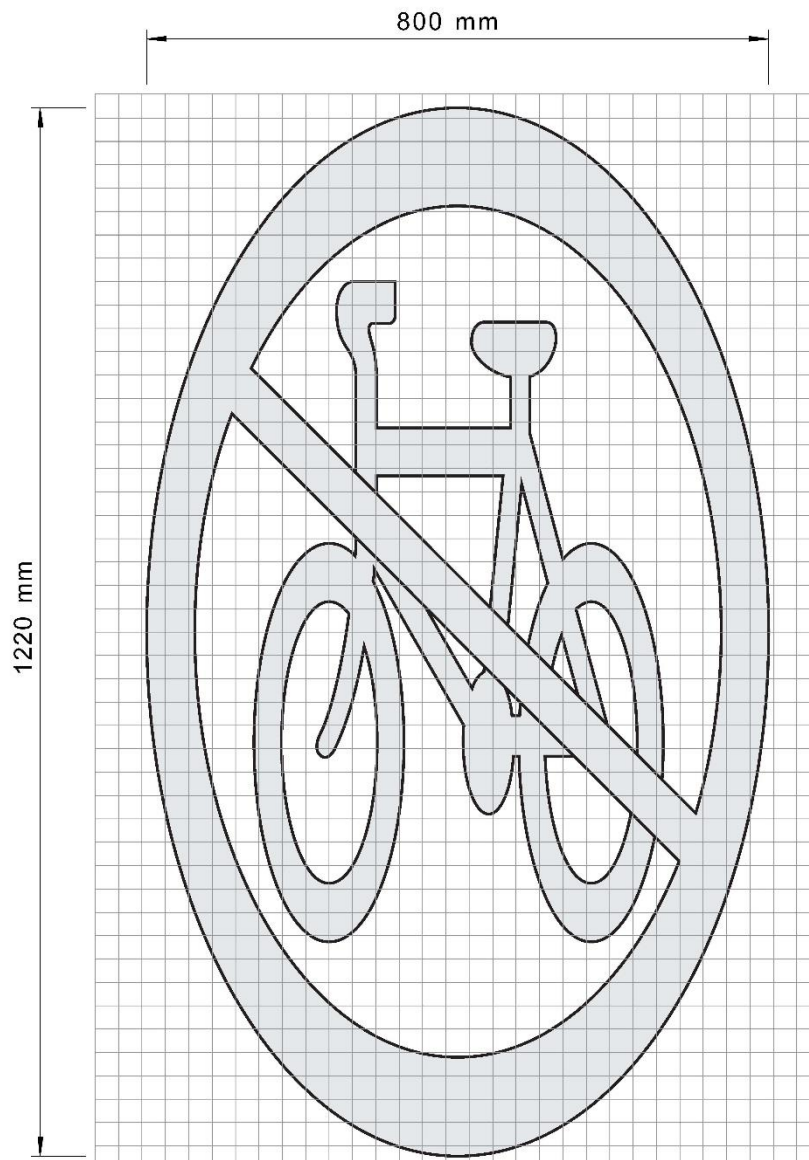
It shall be limited to use as a temporary measure only pending appropriate restoration of the pavement surface.

3.3 Pavement markings

Difference

- Replace Item (g) *Give way or stop pavement marking* with:
(g) *Give way or stop pavement marking* In lieu of a give way or stop sign, a give way or stop pavement marking, respectively, may be marked on the path [see Figure 3.2(1)].
- Item (h) *No-bicycle symbol*, replace reference to Figure 3.2(b) with Figure 3.3(b).
- Replace Figure 3.2(2) *No-bicycles pavement symbol for paths* with Figure 3.3(b) *No-bicycles pavement symbol for paths*

Figure 3.3(b) – No-bicycles pavement symbol for paths



Addition

- (k) Utilisation of pavement marking signs is appropriate in lieu of signage with limited benefit or to supplement the existing signage. Usage of the pavement marking is to be treated as per the placement of the symbol and shall meet all the warrants for the relevant sign.

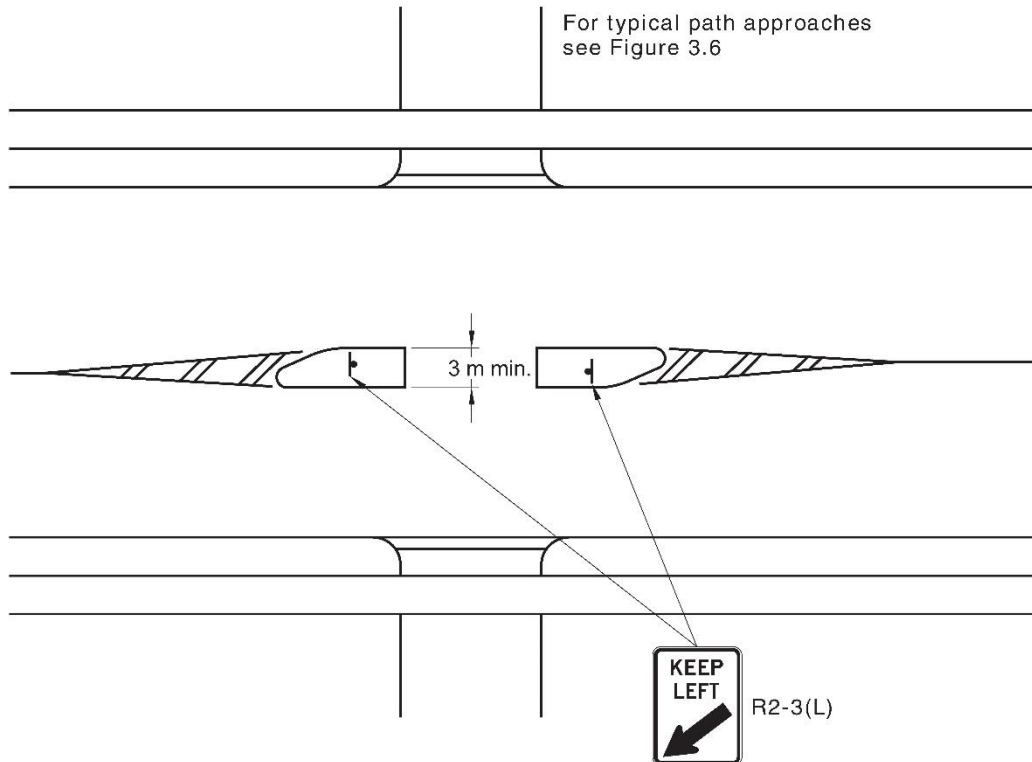
3.7 Road crossings mid-block

3.7.3 Path traffic gives way

Difference

Replace Figure 3.8 *Use of a refuge island to stage path traffic across a high-volume road* with Figure 3.7.3 *Use of a refuge island to stage path traffic across a high-volume road*

Figure 3.7.3 – Use of a refuge island to stage path traffic across a high-volume road



NOTES:

- 1 Parking restrictions may be required on the approaches to the crossing.
- 2 Refer to AS1742.2 for advance signing requirement for a refuge island.

3.7.4 Traffic signal control

Deletion

Delete Item (a) *Road crossings*, delete second paragraph.

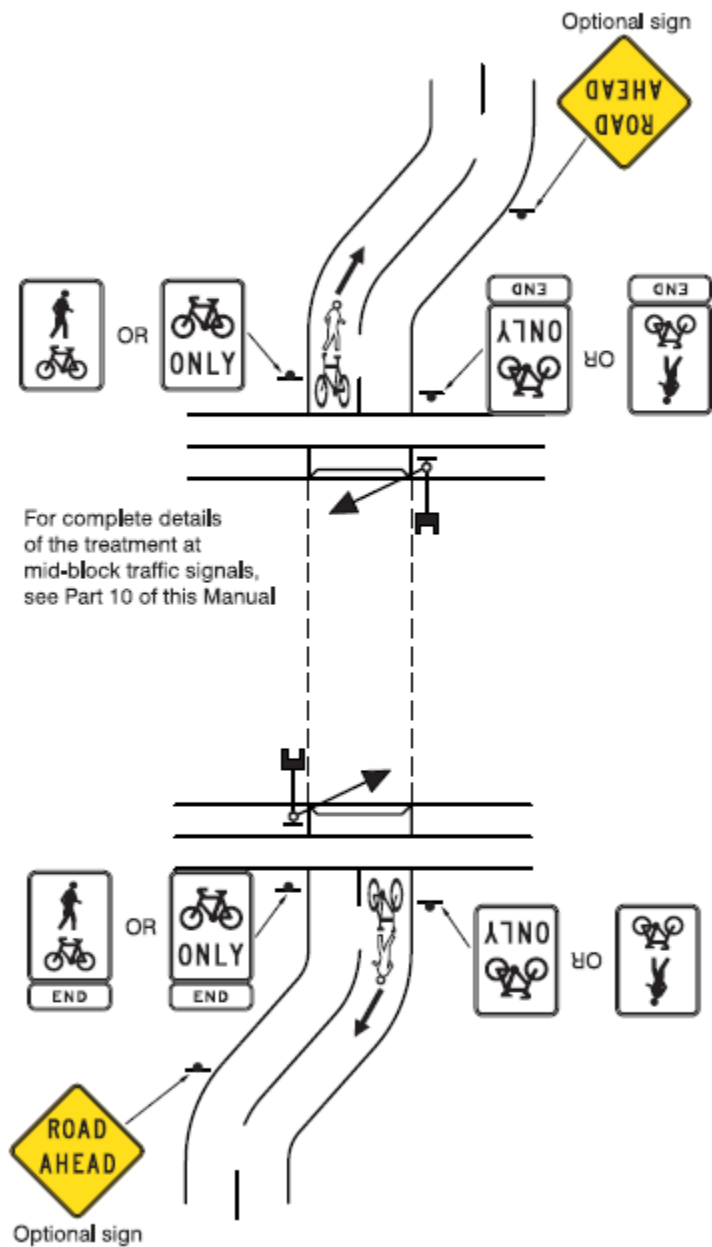
3.8 Road crossings at intersections

3.8.2 Signalized intersections

Difference

Replace Figure 3.10 Use of mid-block pedestrian / cyclist operated traffic signals at a bicycle crossing or at a shared or separated crossing with Figure 3.8.2(b) Signing of mid-block traffic signals at a crossing of bicycle path or shared path

Figure 3.8.2(b) – Signing of mid-block traffic signals at a crossing of bicycle path or shared path



4 Bicycle provisions on expressway type roads

4.3 Application of signs to freeway interchanges

Difference

- Replace NOTE with
NOTE: For further details, see Section 14 *Cyclists* of Part 4C of Austroads *Guide to Road Design*.
- Figure 4.3 NOTE, replace 'forced off' with 'directed off'.

4.4 Pavement markings

New

Where bicycles are known to use a rural freeway and appropriate interchange signing is provided for cyclists, bicycle pavement symbols or warning signage may be considered for use. Bicycle pavement symbols at up to 1 km spacing will generally be adequate.

Where provisions are made for cyclists to cross a freeway ramp (see Figure 4.1 in AS1742.9), a bicycle pavement symbol may be placed on the shoulder in advance of the crossing location. If used, the bicycle symbol shall be yellow in colour. For size and shape, refer to Figure 2.2(1) *Bicycle pavement symbol for road use* in Section 2.3.2 of AS1742.9.

