



## Signage, Pavement and Linemarking Guidelines



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# Guidelines for Bicycle Signage, Pavement and Line Marking

Australian Standards (AS 1742.9, Manual of uniform traffic control devices, Part 9: Bicycle facilities) require the appropriate signage, pavement and line marking for various on and off road cycling facilities for people to legally cycle on them.

All projects funded as part of the Perth Bicycle Network (PBN) Local Government Grants program must be appropriately signed and marked.

The following guidelines are designed to provide easy to find information on the most common signage, pavement and line marking issues in the construction of cycling infrastructure.

## ***Exclusive Bicycle Lanes***

**Definition** - A lane on a road set aside for the exclusive use of bicycle traffic either full-time or part-time.

### **Bicycle Lane Plate**

The Bicycle LANE (R7-1-4) sign shall be used to designate an exclusive bicycle lane as follows:



*R7-1-4*

**NOTE** - FOR ALL SIGN PLATES LISTED IN THIS DOCUMENT PLEASE REFER TO THE APPENDIX FOR RECOMMENDED SIZES.

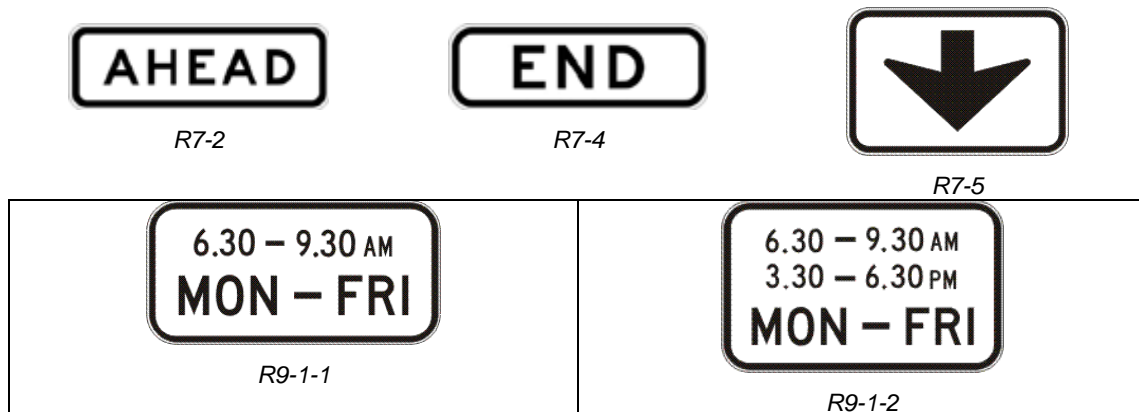
1. At the beginning of a full-time or part-time exclusive bicycle lane and at additional locations such that the spacing does not exceed 500m. The Times of Operation supplementary plate shall be added to the sign for part-time operation.
2. In conjunction with the END supplementary plate at the end of a full-time or part-time exclusive bicycle lane.

The Bicycle LANE sign may also be used in advance of the start of a full-time or part-time exclusive bicycle lane, in conjunction with the AHEAD supplementary plate in both cases and the Times of Operation supplementary plate for part-time operation.

## Bicycle Lane Supplementary Plates

Supplementary plates shall be used in conjunction with the Bicycle LANE sign as follows:

1. AHEAD (R7-2) shall be used if advance notice of the start of a bicycle lane is required.
2. END (R7-4) shall be used to indicate the end of a bicycle lane.
3. Overhead Arrow (R7-5) shall be used if needed to indicate which lane is the bicycle lane by placing the sign assembly above the relevant lane.
4. Time of Operation (R9-1-1, R9-1-2) shall be used to indicate the times a part-time exclusive bicycle lane operates.

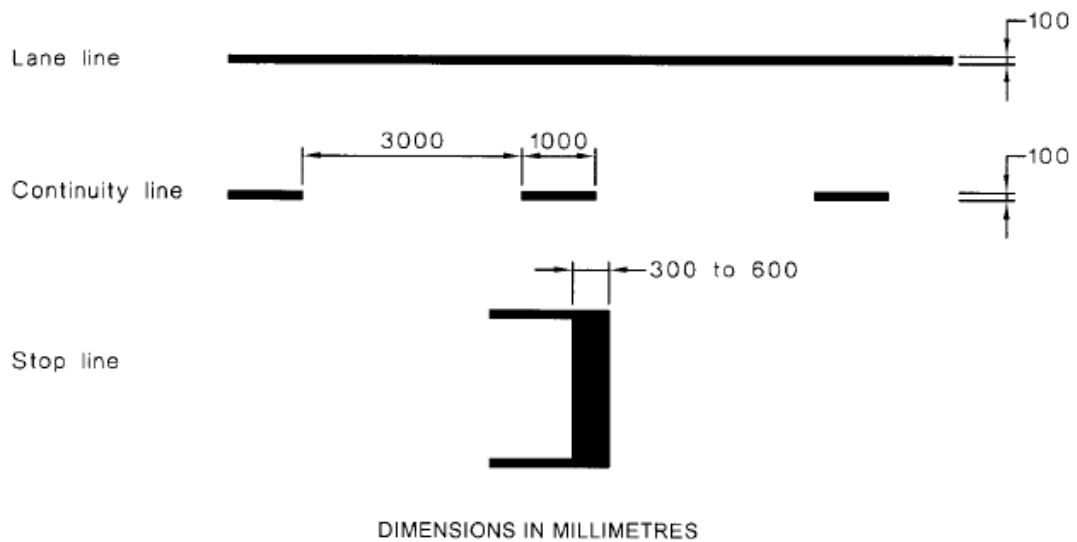


## Bicycle Lane Pavement Markings

The following pavement markings as illustrated in the diagram below shall be used for bicycle lanes on roads:

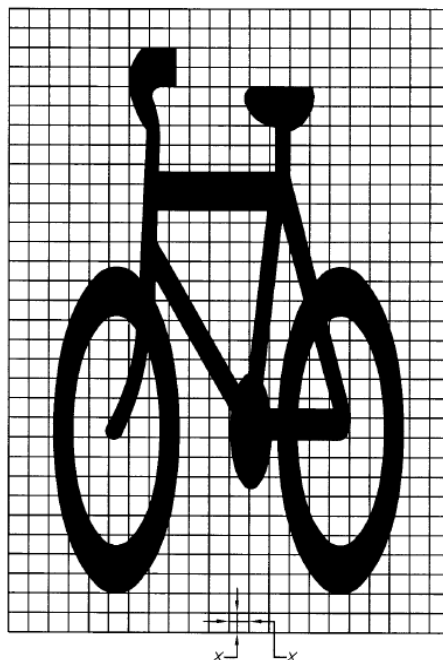
1. **Bicycle Lane Line** - The bicycle lane line shall be placed between the bicycle lane and lanes of moving traffic and where appropriate, a parking lane. It shall be a white unbroken line 100mm wide.
2. **Continuity Line** - A continuity line comprising of white 100mm wide broken line with 1m line segments and 3m gaps shall replace the bicycle lane line -
  - a. Where motor traffic must enter or cross an exclusive bicycle lane when making a turn at an intersection or major driveway; and
  - b. To show the continuity of a bicycle lane where it continues through an intersection without signals.
3. **Stop Line** - A white stop line the same width as the stop line provided for other traffic shall be provided in an exclusive bicycle lane at the point where bicycles must stop at traffic signals.

The bicycle stop line may be provided up to 2.0m in advance of the vehicular stop line to give bicycles a small head start at the onset of the green period, provided the line is clear of cross traffic and any marked pedestrian crossing.



4. **Bicycle Symbol** - Where used on roads, the bicycle symbol shall be as illustrated in the diagram below. The following requirements and recommendations apply to its use on full-time exclusive bicycle lanes:

- a. It shall be used at the beginning of the lane and at additional locations along the lane such that the spacing does not exceed 200m.
- b. It may be placed on the approach and departure sides of intersections, where they may be part of the Item 'a' requirement.
- c. It may be placed at the end of the lane in conjunction with the END sign.



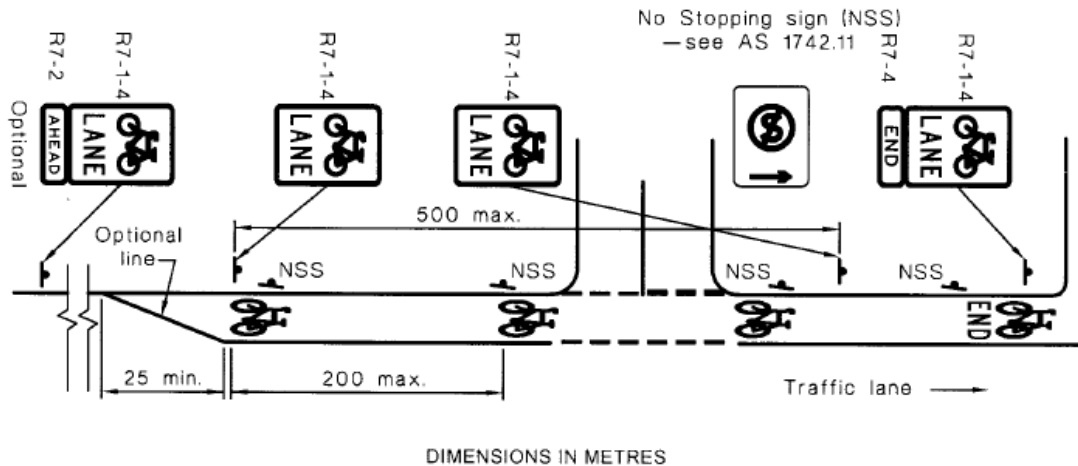
X = 65 mm for a 1100 x 1800 mm bicycle suitable for roadway lanes

**NOTE** - Recommended logo and size is for use in bicycle lanes and sealed shoulders, not shared paths.

## Bicycle Provisions Mid-Block

This is a signed facility comprising a lane within the road, separated from motor traffic by longitudinal line marking.

Signs and markings required for a full-time exclusive bicycle lane adjacent to a kerb are illustrated in the diagram below.



## Sealed Shoulders

A sealed shoulder separated from motor vehicle traffic lanes by an edge line is appropriate for bicycle use where the shoulder is wide enough to accommodate bicycles, but bicycle numbers or other traffic conditions do not require it to be signed as a bicycle lane.

A sealed shoulder will not normally require signs or markings related to bicycle use, but if some bicycle traffic is expected, the Bicycle warning sign (W6-7) or bicycle pavement symbols, or both, should be considered.

Pavement symbols 1km apart will generally be adequate.



W6-7

## Paths

**Shared Path Definition** - A path signed for shared use by pedestrians and all classes of bicycle traffic using a common area

**Separated Path Definition** - A path signed for separated use on which bicycles and pedestrians are required to use separate designated areas.

### Shared Path Plate

This sign shall be used to designate a path as a shared path for use by bicycles and pedestrians.



R8-2

### Separated Path Plate

This sign shall be used to designate a separated path.



R8-3(L)



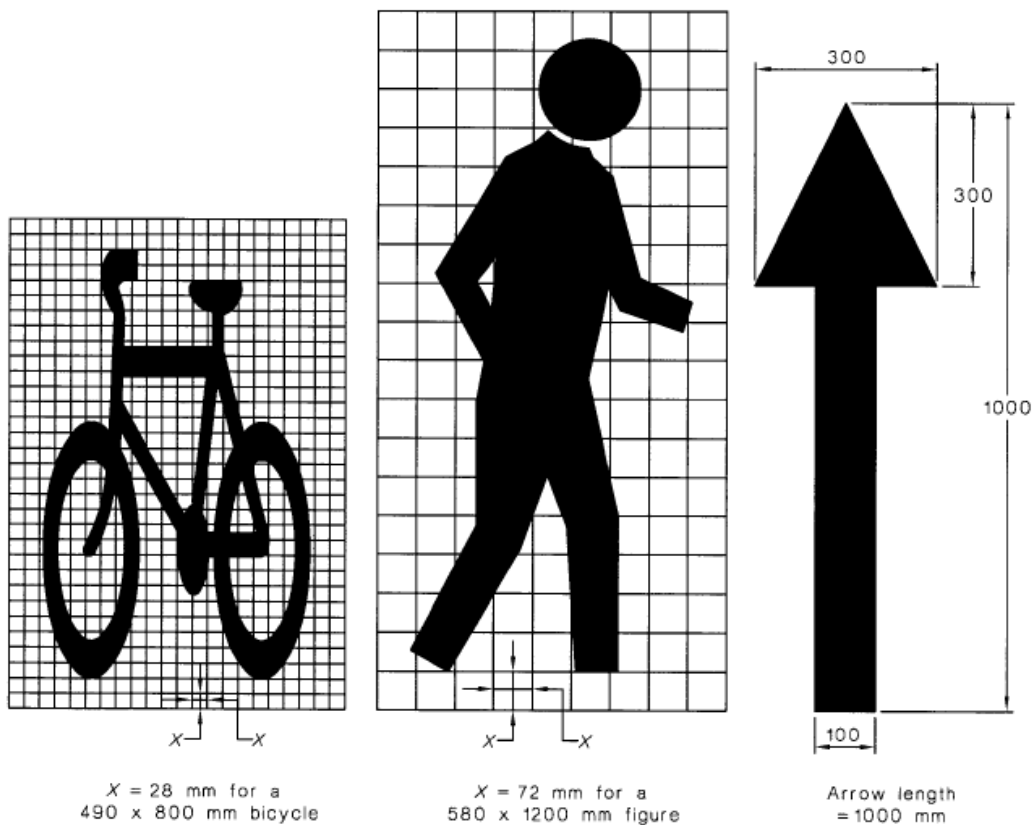
R8-3(R)

### Pavement Markings

The following requirements and recommendations apply to pavement markings used on paths:

1. **Separation Lines (Directional Separation)** - Lines used for separating opposing directions of travel on a path shall be as follows:
  - a. A jade green (concrete surface) or white (asphalt surface) unbroken line 80mm wide -
    - i. On curves where sight distance is poor;
    - ii. In high volume locations or elsewhere where there is potential for conflict; or
    - iii. On the approaches to path / path intersections.

2. **Separation Line (User Separation)** - The line used for separating pedestrians and bicycles on a separated path shall comprise a jade green (concrete surface) or white (asphalt surface) unbroken line at least 80mm wide.
3. **Bicycle and Pedestrian Pavement Symbols** - These symbols are shown in the diagram over the page. Pavement symbols shall be used on both separated and shared paths. Where used the symbols should not be spaced at more than 200m.
4. **Pavement Arrow** - This is shown in the diagram over the page and may be used in conjunction with pavement symbols on busy paths where there is a need to encourage users to keep left.
5. **Multiple Symbol Display** - Where two or more of the pavement symbols in Items 3 and 4 are to be displayed as a group, they shall be displayed in the order bicycle - pedestrian - arrow in the direction of travel with a separation of 1.0 to 1.2m between each symbol.



**NOTE** - Recommended logo and size is for use on shared paths, not bicycle lanes or sealed shoulders.

## Appendix 1 - Signage

<b>Control and Warning Signs for Bicycle Lanes</b>		
<b><i>Sign</i></b>	<b><i>Sign Number</i></b>	<b><i>Size, mm</i></b>
Bicycle LANE	R7-1-4B	450 x 600
	R7-1-4C	600 x 800
	R7-1-4D	900 x 1200
AHEAD	R7-2B	450 x 150
	R7-2C	600 x 200
	R7-2D	900 x 300
END	R7-4B	450 x 150
	R7-4C	600 x 200
	R7-4D	900 x 300
Overhead Arrow	R7-5B	450 x 300
	R7-5C	600 x 400
	R7-5D	900 x 600
Time of Operation Module	R9-1-1A	450 x 300
	R9-1-1B	600 x 400
	R9-1-1C	900 x 600
	R9-1-2A	450 x 450
	R9-1-2B	600 x 600
	R9-1-2C	900 x 900
Bicycle (symbolic)	W6-7A	600 x 600
	W6-7B	750 x 750
<b>Control and Warning Signs for Paths</b>		
<b><i>Sign</i></b>	<b><i>Sign Number</i></b>	<b><i>Size, mm</i></b>
Shared Path	R8-2A	300 x 400
	R8-2B	450 x 600
	R8-2C	600 x 800
Separated Path	R8-3A (L or R)	300 x 300
	R8-3B (L or R)	450 x 450
	R8-3C (L or R)	600 x 600

## ***Appendix 2 - Pavement and Linemarking***

<b>Symbols Sizes for Bicycle Lanes</b>	
<b><i>Sign</i></b>	<b><i>Size, mm</i></b>
Bicycle Symbol	1100 x 1800
<b>Pavement and Linemarking Sizes for Shared Paths</b>	
<b><i>Sign</i></b>	<b><i>Size, mm</i></b>
Bicycle Pavement Symbol	490 x 800
Pedestrian Pavement Symbol	580 x 1200
Pavement Arrow	300 x 1000