

Mamre Road Bridge duplication over the M4 Motorway

The second bridge at Mamre Road, over the M4 Motorway, has been under construction since February 2008. This update explains some of the changes that have occurred. This project is fully funded by the NSW Government.

Background

In January 2007, the NSW Government announced the Mamre Road Bridge duplication project would begin in February 2008.

The existing bridge has two traffic lanes, one in each direction, however, the approaches to it are four lanes, two in each direction.

As a result, traffic on Mamre Road currently experiences significant delays northbound during the morning peak, and southbound during the afternoon peak.

The construction of a new three lane bridge to the west of the existing Mamre Road Bridge, together with work on the approaches and M4 Motorway exit and entry ramp is valued at \$15 million.

Key features of the project

- Northbound traffic on Mamre Road will travel on the new bridge, with two through lanes and a third dedicated left turn lane to the M4 on-ramp eastbound.
- The existing two lane bridge will carry southbound traffic on Mamre Road.
- A shared pedestrian/cyclist path will be provided on the new bridge, and the pedestrian pathway on the existing bridge retained.
- Traffic signal layouts will be modified to suit the bridge duplication.
- An additional right turn lane will be provided from both the westbound and eastbound M4 exit ramps onto Mamre Road.

Benefits of the project

Benefits to both the local community and through traffic include:

- Reduced congestion and delays, particularly during peak traffic times.
- Increased capacity for traffic entering and exiting the M4 Motorway at this location.
- Improved local access for vehicles and pedestrians.

- Improved safety and efficiency on Mamre Road for all road users.
- Economic benefits, including reduced transport costs due to delays.
- Benefits to bus services on Mamre Road.

Construction progress

- Construction commenced on the bridge sub-structure, and on the northern and southern approaches.
- The bridge piles have been completed, pre-cast piers installed, and headstocks completed. (The sub-structure of a bridge consists of piers and abutments which are supported on piles. A headstock is a slab of concrete which is placed horizontally on top of the piers, to support the bridge deck.)
- Construction is also continuing on the northern and southern approaches to the new bridge.
- General earthworks have been completed around the northern and southern abutment at each end of the bridge. The retaining wall on the southern embankment has also been completed.
- Girders spanning over the M4 on-ramps have been erected.

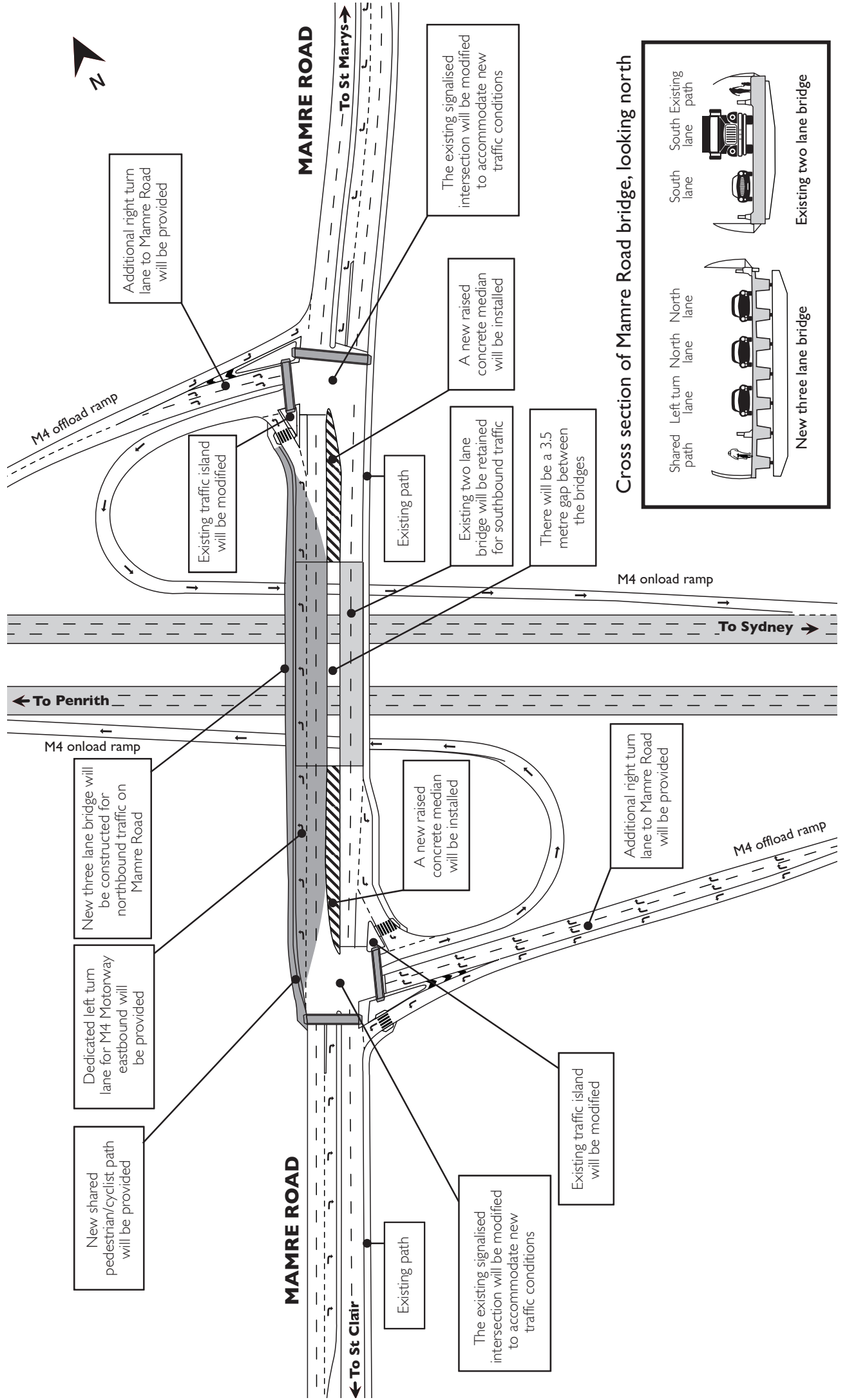
What happens next?

Construction is scheduled to be completed by mid 2009, weather permitting.

During construction the RTA will continue to update the local community, businesses and motorists of progress.

For further enquiries:

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New shared pedestrian/cyclist path will be provided

Dedicated left turn lane for M4 Motorway eastbound will be provided

New three lane bridge will be constructed for northbound traffic on Mamre Road

Additional right turn lane to Mamre Road will be provided

Existing traffic island will be modified

Existing path

The existing signalised intersection will be modified to accommodate new traffic conditions

Existing traffic island will be modified

Existing path

Existing two lane bridge will be retained for southbound traffic

There will be a 3.5 metre gap between the bridges

A new raised concrete median will be installed

The existing signalised intersection will be modified to accommodate new traffic conditions

Additional right turn lane to Mamre Road will be provided

M4 offload ramp

M4 onload ramp

Cross section of Mamre Road bridge, looking north

