

Community workshop

The RTA values your views and comments about the project. The RTA will meet with businesses and residents at a community workshop where members of the project team will be available to answer questions and receive feedback. A formal presentation will not be given, so please feel free to drop in at any time during the workshop.

The Deerubbin Centre (Windsor Central Library) 300 George Street, Windsor Saturday | August 2009 Between 10am and 3pm

Display locations

The options will be on display from Monday 13 July until Friday 14 August 2009 at the following locations:

- Hawkesbury City Council 366 George Street, Windsor Monday to Friday 8.30am to 5pm
- Richmond Motor Registry 173 Windsor Street, Richmond. Monday to Friday 8.30am to 5pm Saturday 8.30am to 12pm

Your comments are invited

Written comments on the options are welcome. Please address these to: John Navamani, Senior Project Manager | Roads and Traffic Authority | PO Box 973 PARRAMATTA NSW 2124

Or email comments to: John_Navamani@rta.nsw.gov.au

All comments are required by Friday 14 August 2009.

All submissions from members of the community and other interested parties will be taken into account in preparing a refined list of options. Once a short list of options has been determined the community will be consulted again to provide further feedback so a preferred option for Windsor Bridge can be chosen.



SPEEDING KILLS ROADWORKERS TOO. Slow down at worksites.

Roads and Traffic Authority

All information in correspondence is collected for the sole purpose of assisting in the assessment of this proposal. The information may be used by the RTA and/or the RTA's project contractors. All information received, including names and addresses of respondents, may be published in subsequent documents unless clear indication is ven in the correspondence that all or part of that information is not to be published.

For further enquiries

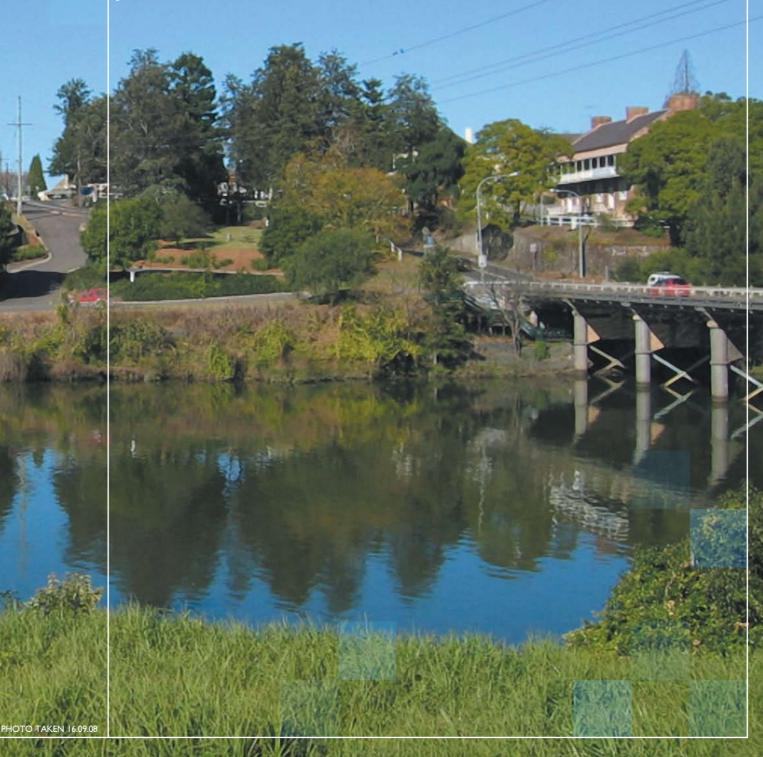
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Community Update

Windsor Bridge over the Hawkesbury River **JULY 2009**



Project objectives

The Roads and Traffic Authority (RTA) is seeking community feedback on nine options

A community workshop will be held on Saturday | August 2009 from 10am to 3pm

to rehabilitate or replace the Windsor Bridge across the Hawkesbury River.

This \$25 million project is fully funded by the NSW Government.

The project is to provide a safe and reliable crossing of the Windsor Bridge is the oldest existing crossing of the Hawkesbury River. The bridge was originally built with Hawkesbury River at Windsor that meets the following objectives:

a timber deck on cast iron piers in 1875. Over the years OBIECTIVES the bridge has undergone many alterations including raising the bridge by 2.4 metres and adding a pier in motorists, pedestrians 1897. The timber deck, abutment and the same pier were replaced by reinforced concrete in 1920 and a

- shoulder widths and shared path widths).
- footpath was added on the downstream side in 1968. The bridge is 143 metres long and 6.1 metres wide. It carries an average of 18,000 vehicles per day.

at the The Deerubbin Centre, Windsor.

While the existing structure is still considered safe for general traffic, parts of the bridge are now 134 years old.

What has happened so far?

Background

In June 2008 the NSW Government announced it had committed \$25 million to replace Windsor Bridge.

The announcement followed investigations by the RTA into the condition of the existing bridge and the options for rehabilitation or replacement.

This document outlines:

- Nine options currently being considered to rehabilitate or replace the existing bridge.
- The objectives of an improved crossing over the Hawkesbury River (see table opposite).

CRITERIA

Meets design codes (eg traffic lane widths,

- Meets current road speed 60 km/h.
- Improve traffic and Minimise queue length/delays.
- transport efficiency Improve performance of road network (level of service). Enable two heavy vehicles to pass on
 - the bridge without waiting. • Improved load capacity to meet current load standards.
- Improve flood Provide for a 1 in 5 year flood event.

Provide efficient connection for local and Meet community

- regional traffic. • Provide pedestrian and cyclist connection
- to surrounding locations. • Minimise impact on recreational space.
- Minimise impact on noise.
- Minimise impacts to businesses and
- shopping environment. Minimise impact on property access and
- need for acquisition. • 100 year life span for the bridge structure.
- Minimise impacts Minimise impact on Aboriginal
- on heritage and and non-Aboriginal heritage and
- character of conservation areas. the local area Minimise visual impact of the bridge and road approaches on the character of local area.
- Cost effective and an Provide a cost effective solution in terms of:

affordable outcome • Capital cost.

- Maintenance cost.
- Investment on return.
- Cost benefit ratio.

A summary of the options to improve the Hawkesbury crossing at Windsor

OPTIONS I and 2 DOWNSTREAM OF EXISTING BRIDGE

Approximately 35 metres downstream from the existing bridge, aligned with Old Bridge Street.

OPTION I - HIGH LEVEL BRIDGE

Option I would provide clearance of approximately 4.5 metres for the bridge from The Terrace. This would allow access for service vehicles including garbage trucks, cars and coaches under the bridge from the Windsor side.

OPTION 2 – LOW LEVEL BRIDGE

Option 2 would provide clearance of approximately 3.5 metres for the bridge from The Terrace. This would allow access for cars only under the bridge from the Windsor side.

- Central to the Windsor township, connecting the northern side
- Easier access to southern river bank by continuing The Terrace
- Potential for the Bridge Street road cutting to be backfilled and landscaped to reinstate the shape of Thompson Square.
- The bridge approach would cut through part of Thompson Square which is listed on State Heritage Register.
- Existing northbound right turn from Bridge Street to heritage properties in Old Bridge Street would be removed.
- Aboriginal heritage is likely to be found in areas near the
- Tree loss would be required along both river banks.
- Traffic would be closer to existing properties on the east side of
- Property would be acquired from the turf farm on the northern river bank.

KABLE STREET – FROM WINDSOR ROAD, **ALONG MACOUARIE STREET**

Along Macquarie Street through to Kable Street, crossing the Hawkesbury River at Macquarie Park on the northern river bank.

- As Kable Street is narrow, existing vehicle parking would need to be restricted/denied between Macquarie Street and George Street.
- Potential for the Bridge Street road cutting to be backfilled
- and landscaped to reinstate the shape of Thompson Square. Reconstruction of the intersection at Macquarie Street and Kable Street, providing an extended right turn bay to
- accommodate additional turning traffic.
- Traffic lights required at The Terrace to manage the increased traffic volumes. Alternatively this access may be closed.
- Removal of raised pedestrian threshold at George Street and replacement with traffic lights would allow pedestrians to
- Increased traffic along shopping precinct in Kable Street reducing pedestrian and parked vehicle safety.
- Potential impact to the heritage listed Masonic Centre on Kable Street.
- Tree loss would be required along both river banks.
- Aboriginal heritage is likely to be found in areas near the presence of permanent water.
- Property would be acquired on Kable Street, along the southern and northern river banks and from Macquarie Park.

- These options are a continuation of the existing Windsor
- of the Hawkesbury River from within the township of Windsor.
- Safe pedestrian and vehicle access to the southern river bank.

- presence of permanent water.

OPTION 6 PALMER STREET

This option begins at a new T intersection on Windsor Road, north of Pitt Town Road, travels east by a new bridge/viaduct across South Creek to run parallel to the east of Palmer Street, proceeding to a new bridge over the Hawkesbury River.

Key considerations:

- Safe navigation for river traffic around bridge piers.
- Potential access difficulties to properties east of Palmer Street.
- Increase in traffic noise to properties along the route.
- Potential for the Bridge Street road cutting to be backfilled and landscaped to reinstate the shape of Thompson Square.
- Tree loss would be required along both river banks.
- Aboriginal heritage is likely to be found in areas near the presence of permanent water.
- Property would need to be acquired for the entire proposed route.

HIGH LEVEL - UPSTREAM OF EXISTING BRIDGE

Slightly upstream of the existing structure, crossing the Hawkesbury River 10 metres to the west of existing bridge and using the same road approaches.

OPTION 7

COURT STREET

Hawkesbury River.

Key considerations:

and Palmer streets.

presence of permanent water.

in Windsor.

- This option goes through the middle of Thompson Square.
- Existing northbound right turn from Bridge Street to heritage properties in Old Bridge Street would be removed.
- Approach roads would need to be realigned, affecting Thompson Square and Macquarie Park.
- Existing service road access for through traffic would be denied in front of the properties in Thompson Square immediately west of Bridge Street.
- Access for buses and other vehicles would be provided along The Terrace under the new bridge.
- Aboriginal heritage is likely to be found in areas near the presence of permanent water.
- Tree loss would be required along both river banks.
- A retaining wall or the full acquisition of property is likely from the Doctors House in Thompson Square.
- Property would be required along the northern river bank through Macquarie Park.

This option would provide a signalised T intersection on

Windsor Road to enable traffic to turn right into Court/North

proceeding north along Palmer Street to a new bridge over the

Potential for queuing across Fitzroy Bridge along Windsor Road.

Widening of the bridge may be necessary to accommodate right

streets, meeting at a T intersection with Palmer Street and

• Safe navigation for river traffic around bridge piers.

turn queuing along Windsor Road/Bridge Street.

Increased traffic along Court, North and Palmer streets.

Potential access difficulties to properties along Court, North

Potential impact to the North Street Conservation Area

landscaped to reinstate the shape of Thompson Square.

Aboriginal heritage is likely to be found in areas near the

Property would be acquired at Windsor Road/Court Street

Tree loss would be required along both river banks.

intersection and along Court and North streets.

Potential for the Bridge Street road cutting to be backfilled and

• Increase in traffic noise to properties along the route.

• Widening of Court Street and North Street.

Difficult construction due to the close proximity to the existing bridge.

BAKER STREET - UPSTREAM OF EXISTING BRIDGE

Along Macquarie Street via Baker Street, crossing the Hawkesbury River at Macquarie Park on the northern river bank.

PITT TOWN ROAD

King Road, Wilberforce.

Key considerations:

- As Baker Street is narrow, existing parking would need to be restricted/denied between Macquarie Street and George Street.
- Potential for the Bridge Street road cutting to be backfilled and landscaped to reinstate the shape of Thompson Square.
- Reconstruction of the intersection at Macquarie Street and Baker Street, providing a signalised right turn bay to accommodate right turning traffic.
- Increased traffic along shopping precinct in Baker Street reducing pedestrian and parked vehicle safety.
- Traffic lights would be required at The Terrace to manage the increased traffic volumes. Alternatively this access may be closed
- Potential for traffic to gueue back onto Windsor Road if the right turn bay cannot meet the needs of traffic during peak or busy periods.

Access from Pitt Town Road onto Punt Road, then by viaduct

or low embankment and bridge across Bardenarang Creek,

across the floodplain crossing the Hawkesbury River to

• Safe navigation for river traffic around bridge piers.

to accommodate anticipated traffic volumes.

Increase in traffic through Pitt Town.

presence of permanent water.

river banks.

Punt Road is a gravel road and would require reconstruction

Bathurst Street is narrow and would require widening and

upgrading to accommodate anticipated traffic volumes.

Potential access difficulties to properties along the route.

Potential for the Bridge Street road cutting to be backfilled

and landscaped to reinstate the shape of Thompson Square.

Increase in traffic noise to properties along the route.

Potential impact to heritage items along the route.

• Tree loss would be required along both river banks.

Aboriginal heritage is likely to be found in areas near the

Property would be acquired across the flood plains on both

- Removal of raised pedestrian threshold at George Street and replaced with traffic lights to allow pedestrians to cross safely due to increased traffic.
- Tree loss would be required along both river banks.
- Aboriginal heritage is likely to be found in areas near the presence of permanent water.
- Property would be acquired on Baker Street, along the southern and northern river banks and from Macquarie Park

REHABILITATE THE EXISTING BRIDGE

The rehabilitation of the existing bridge with a 25 year life span would cost between \$14 million and \$17 million. The bridge would have to be closed for up to 12 months during the work and a significant detour (approximately 20 km) would be required to cross the river during the work.

Key considerations:

- Replacing the deck requires substantial modifications to the piers.
- There would be no additional impact on Thompson Square.
- Provide for a 1 in 2 year flood event.
- Minimal vegetation would be disturbed.
- No property acquisitions would be required.
- Potential safety hazard for traffic could be created with current sight distances along approaches to the bridge.

CHALLENGES OF RETAINING THE **EXISTING BRIDGE**

needs to be considered:

- of the existing bridge.
- The heritage of the existing bridge.

If the preferred option is to construct a new bridge the following

Potential risk to the new bridge if constructed downstream

- The ongoing cost of maintaining the existing bridge.
- Pedestrian and cyclist connectivity to local areas.

KEY – Location options

LOCATION OPTIONS CONSIDERED

10 9 Baker St, Arnold Centre

- Macquarie Arms Hotel
- 5 141 George St, Former CBC Bank
- II II Baker St, Doctors Surgery
- **20** Palmer St, Peninsula House/Tebbutt's Observatory 12 3 Baker St, 'Uralla' **21** Court St, Old Barrack Wall, Stables
- 13 12 Forbes St, Cottage 22 North St Conservation Area, North St Group 14 16 Forbes St, Cottage 23 Pitt Town District Cultural Precinct
 - - **25** 62 King Road, Wilberforce Butcher's Shop 26 27 Wilberforce Rd, 'Bridgeview'

FREEMANS REACH

PITT TOWN BOTTOMS

Heritage properties/items

I Thompson Square Conservation Area **2** I-3 Thompson Square, House

WILBERFORCE

- 4 137 George St, Office
- **6** 146 George St, Form Bank of NSW **7** 22 Kable St, Masonic Temple Church,
- The Manse Farm
- **8** 136 George St, Commercial Building **9** 12 Fitzgerald St, 'Sunnybrae'
- **15** Catholic Cemetery
 - **16** Ashlar Morgue Building, Hospital block and fence 17 Macquarie St, Dedication Stone

18 Day St, 'Trevallyn'

- 24 | Punt Road Pitt Town, Manse of Ebenezer
- 27 Possible remains of Windsor Wharf and convict drain

19 8 Mileham St, House

28 Existing Windsor Bridge