

Gateway UPGRADE NORTH

Date: 7 March 2016
Ref no: CN0022

Bridge works: Gateway Motorway over Bicentennial Road interchange, Boondall

The project team is upgrading the four existing bridges on the Gateway Motorway over the Bicentennial Road interchange.

These works will be undertaken in two major stages (refer to the map overleaf) from March 2016 to late 2018:

- **Stage One (March 2016 to 2017):** widening the two existing northbound bridges.
- **Stage Two (June/July 2016 to 2018):** widening the two existing southbound bridges.

Works include:

- Building level work areas underneath the bridges at the Bicentennial Road interchange and in the centre median of the motorway. This involves some earthworks and installing metal bars into the ground to create stable surfaces.
- Coring investigations on the bridges. This involves drilling into the bridges to extract samples to determine the existing condition of the road/structure.
- Removal of concrete edge protection barriers and other bridge elements.
- Construction of approximately 30 new concrete bridge foundations (piles) and 12 columns to support the bridge decks (refer to the blue box, right, for more information).
- Constructing formwork for widening of concrete on the bridges' deck support structures.
- Installing concrete bridge deck units, pouring concrete slabs and laying the road surface.
- Installation of line marking and road furniture, such as lights, signage and barriers.

Working hours:

A combination of day and night works will be undertaken to complete the bridge widening works.

However, due to the nature of these activities and the proximity to live traffic, the majority of works will be carried out at night when traffic flows are lower, for the safety of motorists and workers.

Working hours include:

- **Day works:** Monday to Friday, 7.00am to 6.00pm and Saturday from 8.00am to 1.00pm.
- **Night works:** Sunday to Thursday, 6.00pm to 7.00am.

What to expect:

- Increased noise levels due to the use of heavy machinery, including a piling rig, vibratory hammers, cranes, trucks, concrete equipment and demolition tools (eg. jackhammers, saw cutters).
- Low levels of vibration during installation of a steel liner for each bridge foundation.
- Regular movement of the piling rig between piling locations.
- Increased construction traffic accessing the work site with flashing lights and reversing beepers for safety.
- Localised traffic changes on the Gateway Motorway and Bicentennial Road interchange, including lane closures, reduced speed limits, minor delays and police/traffic control.
- Localised pedestrian/cyclist changes around the Bicentennial Road interchange.

All works are subject to weather and construction conditions.

Piling works

Piling works for the northbound bridges will start in mid-March 2016 and are expected to take up to three months to complete.

Once these works are complete, piling will be undertaken for the southbound bridges.

Piling works include:

- Drilling approximately 30 holes in the ground, 20-40m deep, at the location of each new bridge foundation using a piling rig.
- Installing a tube-shaped steel liner into each pre-drilled hole using a piling rig and vibratory hammer.
- Pouring concrete into each steel liner and allowing it to set, creating the bridge foundations.

Please refer to the attached *Piling Fact Sheet* for more information.

As each pile is completed, works will be carried out to construct the bridge's concrete columns and install formwork to widen the bridge deck's support structures.

These works will be undertaken at night between Sunday and Thursday from 6.00pm to 7.00am.



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Contact details

The project team is committed to working with the community to better understand your views and ensure the successful delivery of the Gateway Upgrade North project.

You can contact the project team via:

@ contactus@gatewayupgradenorth.com.au

☎ 1800 607 755 (freecall)

🌐 www.gatewayupgradenorth.com.au

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