



Australian Government



Transport for NSW

M5 Motorway upgrade westbound from Moorebank Avenue to Hume Highway

Community Update | August 2022



M5 Motorway traffic from Moorebank Avenue looking toward the Hume Highway

Transport for NSW (Transport) is progressing with plans to upgrade the M5 Motorway westbound from Moorebank Avenue to Hume Highway and upgrade the M5 Moorebank Avenue interchange.

These upgrades will reduce congestion, improve the efficiency and safety of the road network for all road users. Upgrading the interchange will accommodate the increase in heavy and light vehicle traffic from the Moorebank Logistics Park.

Australian and NSW Governments' budget commitments

Recognising the need for this important upgrade, the Australian and NSW Governments have committed funding for this upgrade to assist with delivering the project.

Transport will be displaying the Review of Environmental Factors (REF) assessment to the public. The REF will be available for public comment until 25 September 2022.

The proposal is expected to result in benefits to road users including:

- improved efficiency with shorter queues and travel times westbound along the M5 Motorway
- increased road safety with the elimination of the weaving issue westbound from Moorebank Avenue onto the M5 Motorway
- new shared user path for cyclist and pedestrians connecting Moorebank Ave and Hume Highway, over the Georges River
- a potential decrease in the frequency of incidents and their associated traffic delays
- provide a reliable road network to support economic and residential growth in western Sydney
- improve safety and access to the Liverpool CBD.

M5 Motorway westbound traffic upgrade and M5 Moorebank Avenue interchange upgrade



MITRA (Moorebank Intermodal Terminal Road Access) Strategy

Transport developed the MITRA Strategy to address increasing traffic and freight movements in the Liverpool/Moorebank area over the next 10-20 years. The strategy identified road infrastructure improvements to meet the forecast growth of the Liverpool CBD and regional traffic, together with construction of the Moorebank Logistics Park (MLP). The Park will generate over 6,600 heavy vehicle trips and 10,000 light vehicle trips per day. The M5 Motorway westbound traffic upgrade is one of the road infrastructure improvements identified in the MITRA strategy.

M5 Motorway westbound traffic upgrade

Motorists travelling westbound on the M5 Motorway through Moorebank and Liverpool currently experience traffic congestion in the afternoon peak. This is caused by traffic entering the motorway westbound at Moorebank Avenue merging with through-traffic and vehicles exiting towards the Hume Highway. Increasing heavy vehicles travelling from MLP will also add to the congestion.

In late 2019, Transport consulted with the community on the design to upgrade the M5 Motorway westbound between Moorebank Avenue and Hume Highway to ease this congestion and improve safety.

The community consultation report was published in July 2020 and can be viewed at nswroads.work/m5motorwaywestbound

M5 Moorebank Avenue interchange upgrade

The M5 Moorebank Avenue interchange upgrade will improve the traffic efficiency of the M5 and Moorebank Avenue intersection to accommodate the increase in heavy and light vehicle traffic from the MLP.

Upgrading the M5 Moorebank Avenue interchange is a condition of planning consent for the Moorebank Precinct East Stage 2. It is also an important component of Transport's MITRA strategy.

Combining the two projects into one will assist with minimising the construction impacts for road users, residents and businesses, address future capacity requirements for the interchange and reduce the overall cost of the two projects.

Features of the combined M5 Motorway westbound traffic upgrade and M5 Moorebank Avenue interchange upgrade:

- a new two lane bridge over Georges River, and the T2 and T5 railway lines, connecting the M5 Motorway, Moorebank Avenue and Southern Sydney Freight line to the Hume Highway
- a new underpass at Moorebank Avenue for traffic exiting the M5 Motorway at Hume Highway
- a new exit east of Moorebank Avenue for the M5 Motorway westbound towards the Hume Highway (the current exit at Moorebank Avenue will be maintained)
- closing the existing exit from the M5 Motorway to Hume Highway between Moorebank Avenue and Hume Highway
- a two lane exit for motorists travelling east on the M5 Motorway to Moorebank Avenue
- a third right turn lane from M5 eastbound to Moorebank Avenue southbound
- widening Moorebank Avenue south of the M5 to accommodate a third through-lane before merging back to two lanes
- a second left turn lane from M5 westbound to Moorebank Avenue southbound

- a second left turn lane from Moorebank Avenue northbound to M5 westbound
- a new shared pathway along the M5 Motorway starting at Moorebank Avenue, across the Georges River on the new bridge
- upgraded traffic lights to accommodate changes.



Other projects in the area

We are also planning other road upgrade projects, supporting the future Transport network in the south west, including:

1 Heathcote Road duplication between The Avenue and Princes Highway

In addition to the funding that has been committed for the full duplication of Heathcote Road between Infantry Parade and The Avenue, \$35 million has also been committed to investigate the full duplication between The Avenue and Princes Highway.

Visit nswroads.work/heathcoteroadcorridor

2 Safety improvements for Heathcote Road bridge over Woronora River at Engadine

Work is now underway on widening the bridge to improve safety on Heathcote Road over Woronora River, improving travel time on Heathcote Road between New Illawarra Road, Lucas Heights and the Princes Highway, Engadine.

Visit nswroads.work/heathcote

3 Heathcote Road upgrade at Moorebank

Transport has been investigating a proposal to upgrade a section of Heathcote Road, Moorebank between Junction Road and the M5 Motorway. Widening this 300m section would remove the bottleneck and improve safety and traffic flow. Consultation on the strategic design was carried out with the community in 2021.

Visit nswroads.work/heathcoteroadmoorebank

4 Cambridge Avenue upgrade, Glenfield

Planning is underway for a future upgrade and extension of Cambridge Avenue, Glenfield to support future population and employment growth. Consultation was held in December 2020.

Visit nswroads.work/cambridgeave

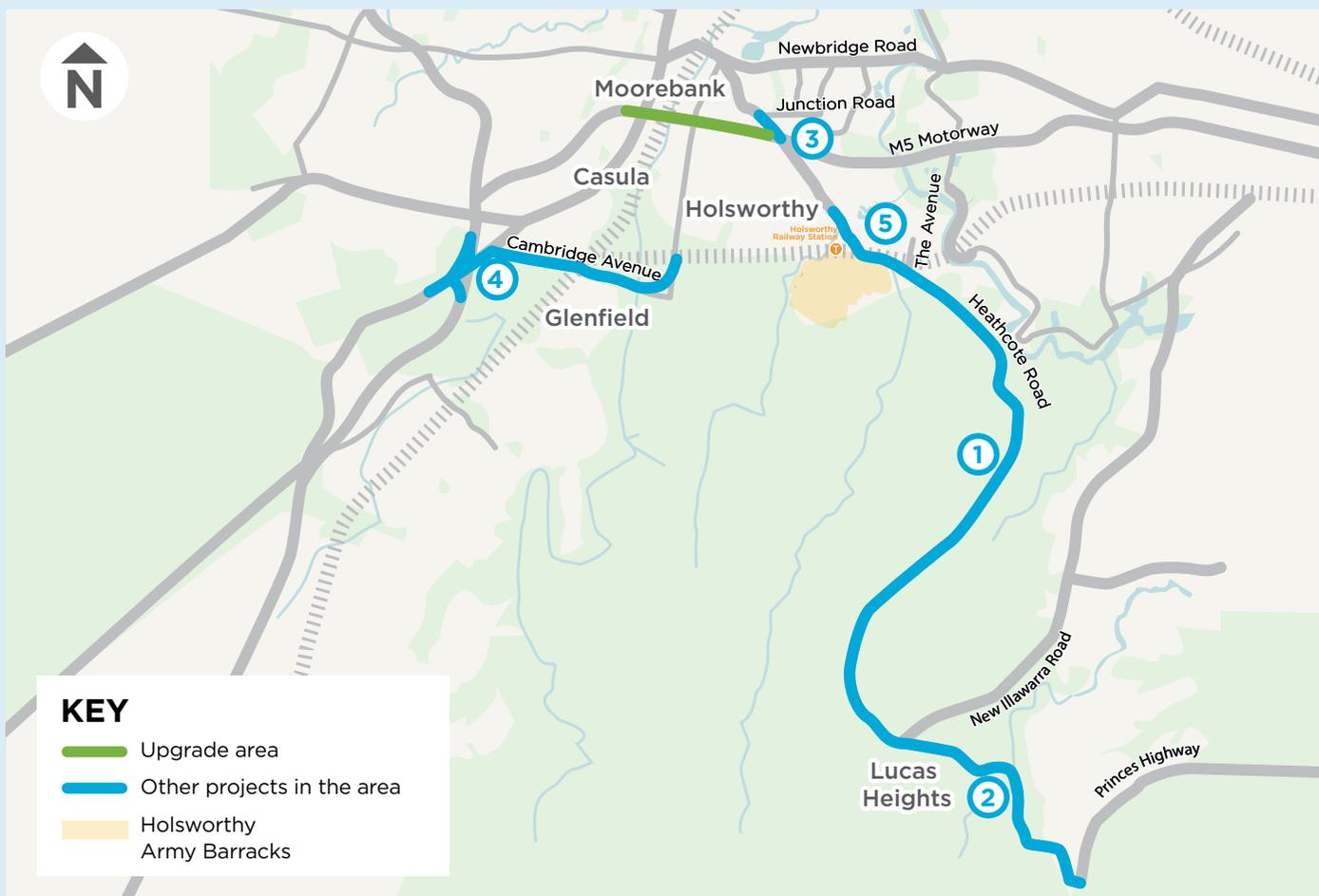
5 Heathcote Road upgrade between Infantry Parade, Holsworthy and The Avenue, Voyager Point

The Heathcote Road upgrade is an important project that will help reduce congestion, improve road safety and provide more reliable journeys for all road users.

The key features of the upgrade includes widening of the road to a two lane dual carriageway from Infantry Parade at Holsworthy to The Avenue at Voyager Point, and duplication of three existing bridges and replacement of two over Harris Creek, Williams Creek and the East Hills train line.

A shared path facility will be provided along the length of the upgraded road to improve cyclist and pedestrian connectivity to Holsworthy Train Station. Construction has now commenced on this major project.

Visit nswroads.work/heathcoteroad



Project impacts

Construction hours and duration

Once construction has been awarded, construction is expected to run for up to 40 months, assuming no unforeseen disruptions. Most work would be carried out during standard construction hours, but some out of hours work would also be required. Out of hours work would be undertaken in accordance with the Construction Noise and Vibration Guidelines (Road and Maritime 2016) and are likely to be required for work:

- that needs temporary access along sections of the M5 Motorway and Moorebank Avenue
- that needs traffic switches outside of peak times
- to adjust traffic signals at intersections
- that includes potential utility and drainage, including relocations and adjustments
- on the western side of the bridge over the Georges River that is around the rail corridor.

Environmental impacts

Noise and vibration

Construction noise impacts are expected to be relatively low compared with existing noise levels generated from the M5 Motorway.

The operational noise modelling results show that the nearest residents would experience an increase in traffic noise of no more than two decibels. Noise mitigation measures will be considered, including at-property treatment for properties that experience higher noise levels than the adopted criteria.

The main source of vibration would be vibratory rollers which are required for the road, pathway and intersection upgrade stages. Noise and vibration impacts during construction would be minimised and managed, as far as feasible and reasonable in accordance with the Construction Noise and Vibration Guidelines (Roads and Maritime 2016).

Traffic and transport

The proposal would have six construction areas. These areas would require different traffic arrangements, including reduction of speed limits along the M5 Motorway and Moorebank Avenue, temporary road layout modifications and temporary partial closures to the local road network. Transport would continue to consult with key stakeholders to minimise potential traffic impacts associated with construction in these areas.

Hydrology and flooding

The main construction compound is to be located on flood prone land at Helles Park due to the lack of suitable alternative locations. The delivery of the project would include careful positioning of portable buildings and unsecured construction objects.

During operation, there would be no significant changes in the flood behaviour of the Georges River due to the proposal.

Surface water and groundwater

Enabling work, earthworks and construction may impact surface water and groundwater through erosion, scouring of natural waterways, sedimentation and contamination. Mitigation measures would be implemented during construction to contain material on site and protect surface and ground water quality. Design of appropriate stormwater infrastructure will help manage what is expected to be negligible erosion and scouring during operation.

Soil and contamination

Some construction activities, such as removal of vegetation and heavy vehicle movements, would result in dust. Where possible, we would work to implement dust mitigation measures to minimise our impact. Some of these measures include covering materials, using designated routes, driving at low speeds while on and around our sites, and visually monitoring our sites daily. Mitigation measures will be put in place to reduce any soil erosion and loss of topsoil due to earthworks, excavation and vegetation removal.

During operation, impacts on soil and contamination as a result of run-off and drainage would be minimal. Further investigation and design solutions will be identified during detailed design.

Biodiversity

We understand the importance of managing the project's impact on the environment, and take environmental conservation and protection seriously. The design has been refined to minimise any impact, however, the proposal will require removal of some native vegetation and street trees and plantings.

Safeguards and mitigation measures have been proposed to manage and minimise impacts to fauna and flora where possible. Assessments of significance were undertaken for threatened ecological communities and threatened species in the proposal area. The proposal is unlikely to have a significant impact on any listed threatened species, populations or ecological communities.

Have your say

The REF for the M5 Motorway westbound traffic and M5 Moorebank Avenue intersection upgrade is on public display until midnight, 29 September 2022. The planning documents are available in both PDF format.

An animated flythrough of the project is available on nswroads.work/m5motorwaywestbound

To view the REF visit nswroads.work/m5motorwaywestbound

Feedback can be submitted directly through the digital platform or by:

- emailing m5moorebank@transport.nsw.gov.au
- phoning 1800 519 525
- writing to:
M5 Motorway westbound traffic upgrade
Transport for NSW
PO Box 973, Parramatta NSW 2124

Your feedback will help inform our design and let us know what is important to the community. We will continue to engage with the community as the project progresses.

Information sessions

We are hosting a number of community information sessions to provide you with an opportunity to ask the project team questions and gain further information. A formal presentation will not be given, so feel free to drop in any time at one of the following sessions:

- Moorebank Logistics Park Sales Suite, above Piccolo Me, 400 Moorebank Avenue, Moorebank,
Thursday 8 September – 4pm-6pm
- Casula Powerhouse Arts Centre
1 Powerhouse Road, Casula,
Saturday 17 September – 10am-1pm

Virtual information session

An online session via MS Teams will be held on:

- Wednesday **14 September 2022 – 4pm-4:30pm.**

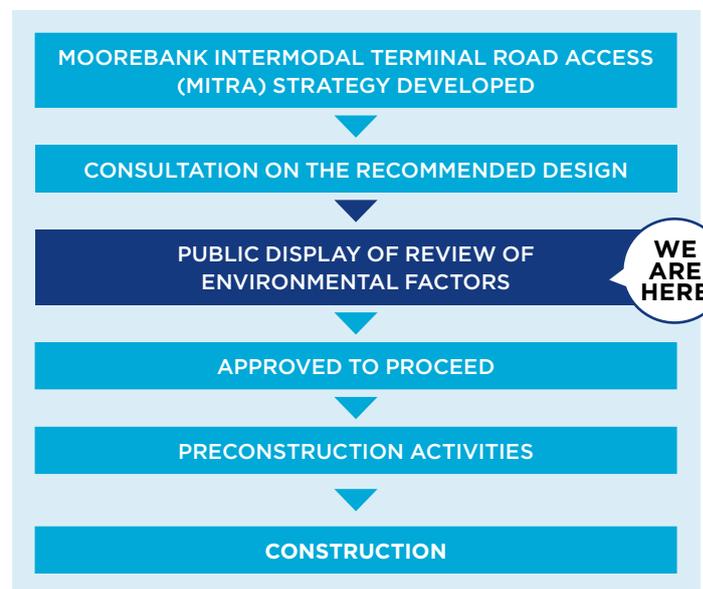
The session can be joined at nswroads.work/m5wbinfosession

Next steps

At the end of the REF display period, a submissions report will be published on the website. The report will include a summary of the community feedback received on the project and our responses.

We will continue to keep the community up-to-date as the project progresses. We encourage you to register for updates, so that we can get the latest information to you via email.

Project development process



Contact us

If you have any questions or would like more information please contact our project team:

- ☎ 1800 519 525
- @ m5moorebank@transport.nsw.gov.au
- 🌐 nswroads.work/m5motorwaywestbound
- ✉ M5 Motorway westbound traffic upgrade,
PO Box 973, Parramatta NSW 2124



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