



An artist's impression of the entry to the new Westmead metro station

# Major work to start at Westmead

The NSW Government is delivering Sydney Metro West, a new underground metro railway which will double rail capacity between Parramatta and the Sydney CBD, with a target travel time of about 20 minutes between the two centres.

Sydney Metro West stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont and Hunter Street in the Sydney CBD.

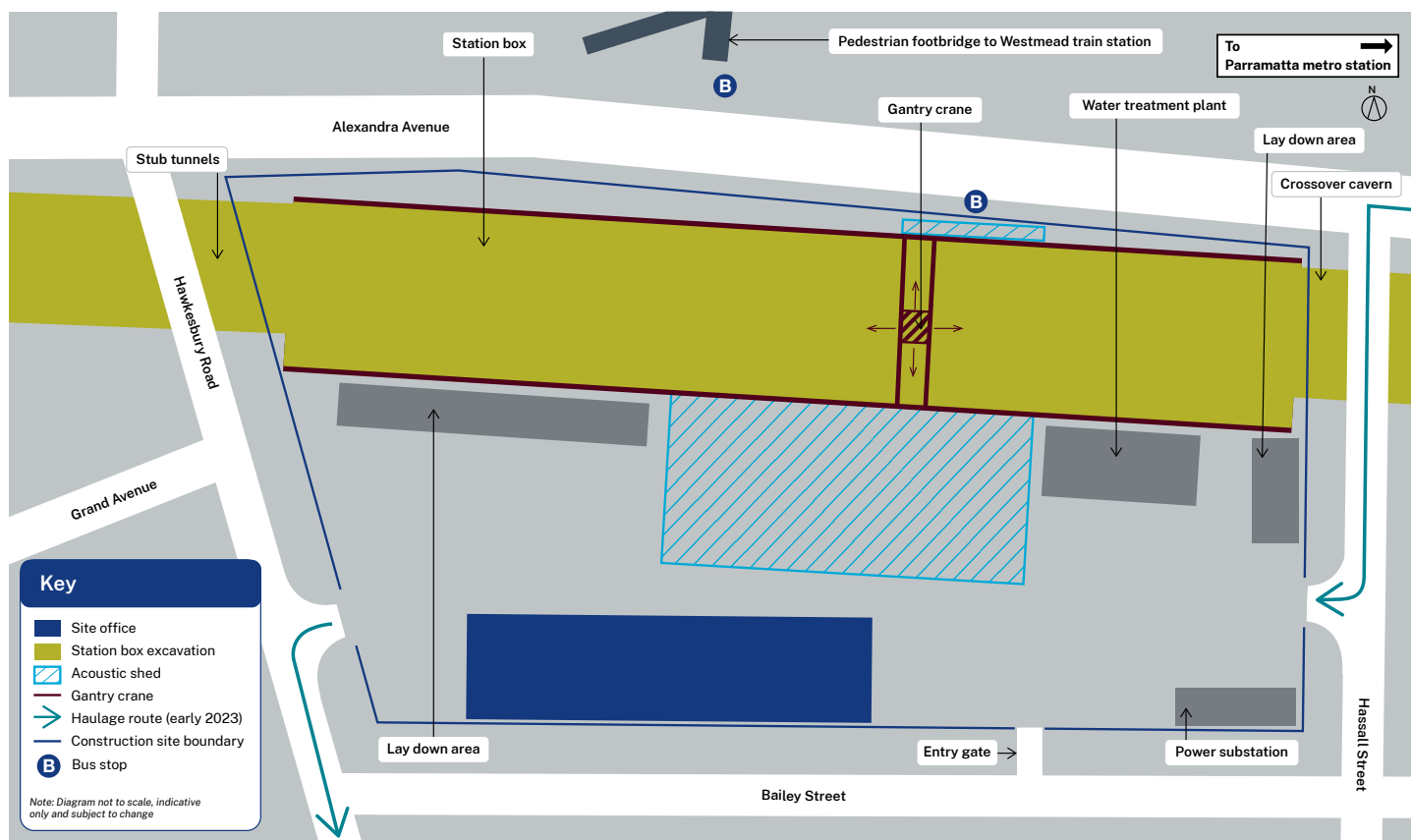
Gamuda Australia and Laing O'Rourke Consortium (GLC) has been awarded the contract to deliver the Western Tunnelling Package. This involves nine kilometres of twin metro railway tunnels between Westmead and Sydney Olympic Park, excavation for two new metro stations, a stabling and maintenance facility at Clyde and a facility at Eastern Creek to produce precast concrete segments to line the tunnels.

## Westmead construction overview

GLC is continuing site establishment work in Westmead. Work includes utility investigations, new power supply installation and delivery of site sheds.

Piling commenced in mid-December 2022 with excavation of the station box starting in January 2023. Work at Westmead will also include construction of a rail crossover cavern and stub tunnels using roadheaders, and construction of twin tunnels by tunnel boring machines.

The two tunnel boring machines are expected to reach Westmead in mid-2025.



An indicative map of the Westmead construction site.

## Station box excavation

The new underground metro station will be located between Alexandra Avenue, Hawkesbury Road, Hassall and Bailey streets, Westmead, south of the existing Westmead Station. Excavation of the station box is scheduled to start in early 2023.

The station box will be approximately 170 metres long by 25 metres wide and about 30 metres deep. Excavation will take up to 15 months to complete. This work will require the use of cranes, piling rigs, excavators and rock breakers.

A 230 metre long underground crossover cavern will be built on the eastern side of the station box. A crossover cavern is where trains cross from one track to another. On the western side of the station box, stub tunnels will be constructed. These 90 metre long tunnels are part of future proofing the metro network and will allow for the development of a future metro line to connect to Westmead metro station.

## Utility investigations and new power supply installation

As part of the site establishment work, we have identified underground utility services previously connected to the buildings located within the work site, including sewer, water, gas, and power services.

To disconnect these services there will be temporary footpath diversions, parking changes and lane closures on Hawkesbury Road, Bailey Street, Hassall Street and Alexandra Avenue between January and April 2023.

To provide power to the new metro station a new power supply is being installed from the Endeavour Energy substation in Macquarie Street, Parramatta. This has required trenching and installation of a cable route from Macquarie Street along Pitt Street, Park Parade, Alexandra Avenue and into Hassall Street. Due to the high level of traffic on these roads, the majority of this work is occurring at night, requiring the temporary closure of parking spaces and traffic lanes. This work will be completed in early February 2023.

## Indicative construction timeline

	We are here			
2021 to 2022	Mid 2022 to early 2023	Early 2023 to mid 2024	Mid 2024 to mid 2025	Late 2025
Site investigations and demolition	Site establishment	Station box and crossover cavern excavation	Construction of twin TBM tunnels	Site handover for station construction

## Six-month look ahead

Activity	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023
Site establishment activities	●					
Local road works: Hassall Street, Bailey Street, Alexandra Avenue, Priddle Street and Hawkesbury Road	●	●	●	●		
New power supply installation	●	●				
Piling and concreting	●	●				
Excavation and earthworks	●	●	●	●	●	●
Construction of acoustic shed			●	●	●	●

## Managing noise and vibration impacts

To reduce the impact to the local community, an acoustic shed will be constructed over the station box excavation area in early to mid 2023. When the shed is in place, excavation will be carried out 24 hours a day, 7 days a week.

Construction noise and vibration is temporary and often changes. The perceived level of impact may vary from person to person depending on the location of their property, the type of construction activity and duration of works.

Noise and vibration is regularly monitored to ensure the project is operating within its strict environmental requirements.



### Causes of noise and vibration

Equipment used for excavating, compacting and construction activities can cause noise and vibration that may be noticeable to nearby residents.

### Reducing noise and vibration

While noise and vibration is unavoidable during construction, mitigation measures will be implemented to minimise impacts on the community.

These will include:

- selecting machinery and planning activities that will minimise construction impacts
- installing noise blankets, hoarding, acoustic shed and non-tonal reversing alarms
- prioritising high noise and vibration-causing activities to standard construction hours, where possible
- notifying nearby residents in advance of noise or vibration-generating work.

Photo of an acoustic shed constructed at Victoria Cross metro station as part of the Sydney Metro City & Southwest project.



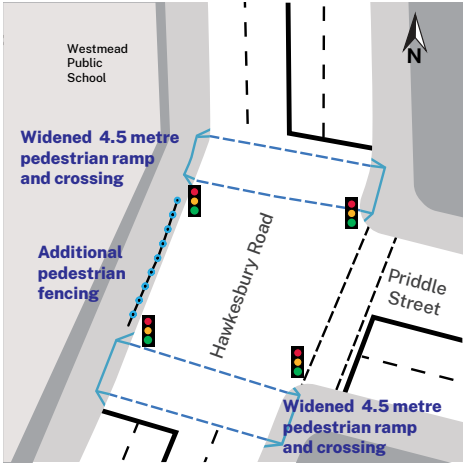
## Traffic and pedestrian changes

In early 2023, the pedestrian crossings at Hawkesbury Road and Priddle Street will be widened and the traffic lights relocated. This will create a 4.5 metre wide crossing between Westmead Public School and the opposite side of Hawkesbury Road, providing more space for parents and children to safely cross the roads.

To facilitate truck movements in and out of the Westmead construction

site, a new entry is being installed at Hassall Street with a dedicated right turn lane into the site area. Trucks will exit onto Hawkesbury Road and pedestrian boom gates will be installed to ensure the safety of pedestrians along this footpath.

To improve safety and assist traffic flow, there will be new street signs installed, line marking and removal of three parking spaces on Hawkesbury Road and eight spaces on Hassall Street from early 2023. We will provide further notification when the changes are expected to be in place.



Hawkesbury Road and Priddle Street intersection improvements

## Out-of-hours work

Occasionally, activities such as utility investigations or work on roads around site must be carried out at night for the safety of workers, motorists and pedestrians.

Depending on the type of work and expected impacts, a range of mitigation measures may be used such as completing the noisiest work before midnight, installing noise blankets around the worksite, implementing respite periods or providing alternative accommodation.

The project team will provide regular communications and liaise with directly affected residents to provide more information and discuss mitigation options before the work.

If you have an enquiry or would like to provide feedback about the work, including appropriate respite periods, please contact our GLC community team using the details provided below.

## Out-of hours six month look ahead

Activity	Location	Noise Impact	Timing
Oversized machinery and equipment deliveries	Westmead metro station site	Low to medium	As required
Spoil/excavated material removal	Westmead metro station site	Low to medium	As required
New power supply installation	Alexandra Avenue, Park Parade, Pitt and Hassall streets	Medium to high	January to February 2023
Utility upgrades and installations	Alexandra Avenue, Hawkesbury Road, Bailey and Hassall streets	Medium to high	January to April 2023
Installation of site sheds and offices	Westmead metro station site	Low to medium	January to February 2023
Traffic intersection work	Hawkesbury Road/Priddle Street and Alexandra Avenue/Hassall Street	Medium to high	March to July 2023
Excavation of station box	Westmead metro station site	Medium to high	March 2023 to May 2024

### Have your say

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

1800 612 173 Community infoline open 24 hours

metrotunnelsGLC@transport.nsw.gov.au

Sydney Metro

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