



An artist's impression of Five Dock Station.

## Early work gets underway at Five Dock

### October 2021

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 and eight minutes between Five Dock and Sydney CBD.

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.

Sydney Metro was granted planning approval to construct twin underground rail tunnels between Westmead and The Bays for Sydney Metro West in March 2021.

Acciona Ferroviaria Joint Venture (AFJV) has been awarded the contract to deliver 11 kilometres of twin metro rail tunnels between Sydney Olympic Park and The Bays and excavate five new metro stations, including Five Dock Station.

### Five Dock construction sites

Two construction sites will be established in Five Dock to excavate the new metro station. After the buildings on these sites have been demolished, a 30 metre deep shaft will be excavated at each site before the underground station cavern is excavated between the two shafts. Once the station is complete, escalator and lift access to platforms will be via Fred Kelly Place on Great North Road.

Early work will start in November and will include ground investigations in and around the construction sites to establish sub-surface rock conditions and utility locations. Major work at the eastern and western construction sites will start in January 2022.

## Key activities

**Site investigations** include land survey, locating and recording underground utilities, geotechnical drilling to remove core samples for analysis and inspections of Sydney Metro owned properties to check for possible hazardous material prior to demolition.

**Demolition** of existing buildings and clearing of the sites to prepare for building of the construction site facilities.

**Site establishment** with the construction of all required structures, workshops, offices, facilities, power and water services, gantry cranes and acoustic sheds.

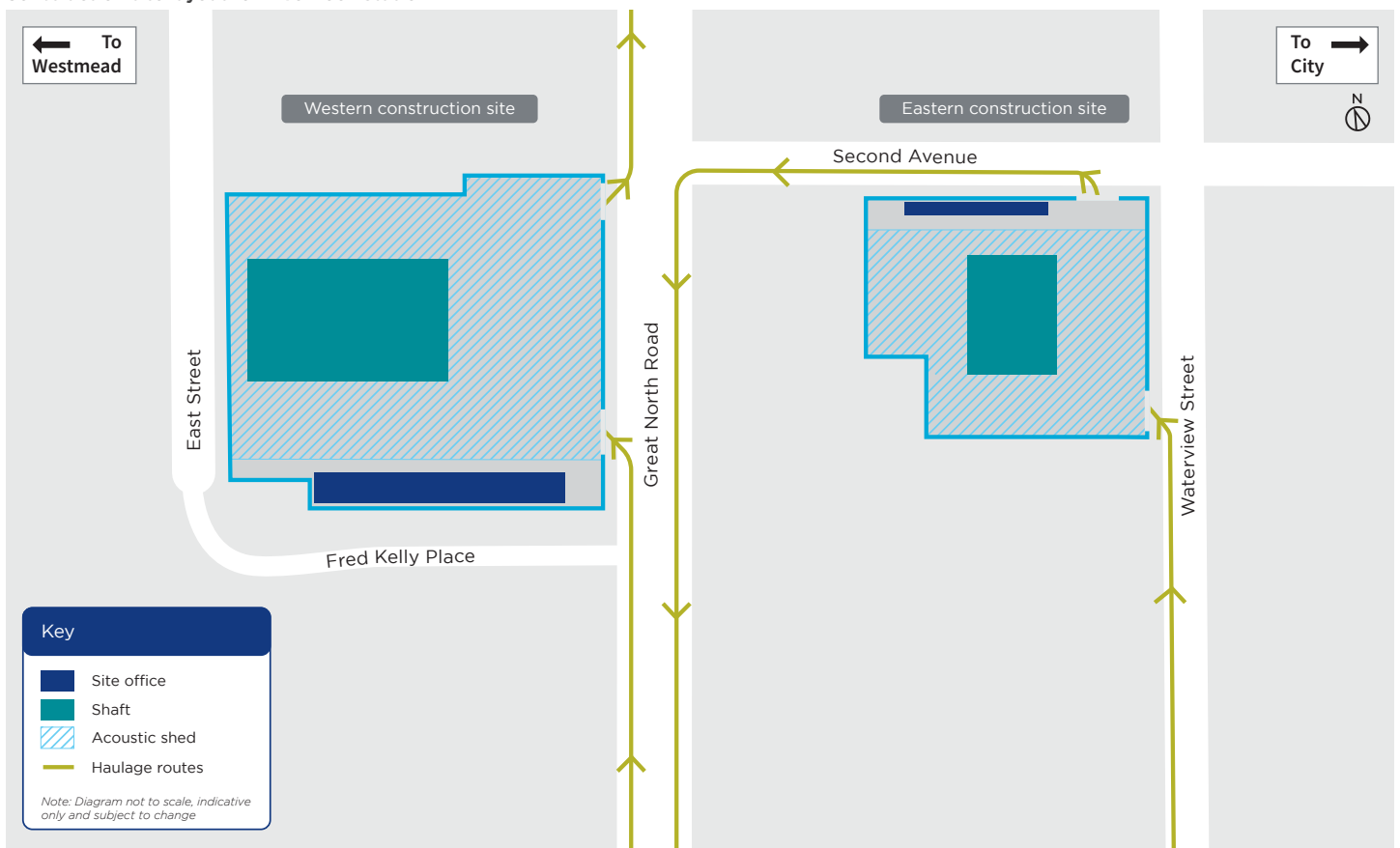
**Shaft excavation** will require delivery of heavy excavation equipment to install concrete pillars around the edges of the planned shafts. This provides ground support during the digging of the shafts with removal of all soil and rock to the required depth for the station construction.

**Cavern excavation** continues the process by digging out and lining a large open space below ground so the station platforms and facilities can be built.

**Tunnel boring machines** are expected to be in the ground at The Bays by the end of 2022 and to reach Five Dock during the second half of 2023.



Construction site layout for Five Dock Station



## Construction hours

Work at the Five Dock station sites is approved to be carried out during the following construction hours:

- Monday to Friday 7am to 6pm and Saturday 8am to 6pm
- Weekday hours will extend to 10pm once the acoustic shed is complete.
- There will be no spoil truck movements after 10pm.
- Tunnelling, cross passage and cavern excavation 30 metres below ground will continue 24 hours a day starting in late 2022.



An acoustic shed at the Victoria Cross Station site in North Sydney.

## Acoustic sheds

Acoustic sheds are large, insulated structures with roller door vehicle access to cover excavation activity to reduce construction noise and contain dust. Both the eastern and western construction sites at Five Dock will have acoustic sheds built over them before station excavation starts around mid 2022.

Excavation of material and loading via a gantry crane into trucks will take place within the acoustic shed. Truck wheel washers installed at the exits will minimise dirt being carried onto nearby streets.

## Tunnel boring machines

Two tunnel boring machines (TBMs) will be launched from The Bays at Rozelle and excavate twin 11km tunnels to Sydney Olympic Park. Each TBM weighs over 900 tonnes (equivalent to the weight of 500 big cars) and is as long as two A380 airplanes at around 120m in length.

The TBMs will dig 7m diameter tunnels at an average depth of 40m and remove about 2.5 million tonnes of excavated material via conveyors that run through the middle of the machine. The excavated rock material will be removed from the tunnels at The Bays and get transported via trucks to other sites around Sydney for reuse.

The rear of the TBM has a mechanism to insert concrete lining sections that seal the tunnel as it moves slowly along the route and almost 70,000 concrete sections will be used to line the two tunnels. Tunnelling is expected to start at The Bays in late 2022 and reach Five Dock in late 2023.

## Traffic and parking changes

The Second Avenue car park near Great North Road is located within the boundary of the eastern construction site and will need to be closed before demolition work begins early next year. The car park will remain open until **early January 2022**. Details of the closing date will be publicised later this year.

The team is working through plans for some other traffic and parking changes in the local area. This includes the temporary removal of several on street parking spaces and traffic safety measures along sections of Waterview Street and Second Avenue next to the eastern construction site. Every effort is being made to keep changes to a minimum and more information will be provided over the coming months.

## Property condition surveys

Pre-construction property condition surveys are currently being offered to owners within 50m of the two station excavation sites to record the current condition of built structures on the property. Letters of offer for property owners above the tunnel alignment will be sent before tunnelling reaches Five Dock during the second half of 2023. Once construction has been completed, post-construction inspections will automatically be offered to owners who accepted the offer of a pre-construction survey.

These surveys will be used for comparison purposes in the unlikely event a property owner believes property damage may have been caused by the project.

Owners who wish to accept the offer should respond when they receive the offer letter and one of the property inspection specialists will contact you to arrange a suitable appointment time. All inspections will be carried out in line with NSW Government health guidelines.

Five Dock Metro Station construction look ahead	Oct	Nov	Dec	Jan
Site survey, geotechnical and utility investigations, site property inspections				
Boundary hoarding installation				
Demolition of existing buildings starts				
Site establishment including some utility relocation work starts				

## Out-of-hours work – three month look ahead

While tunnelling activities will occur 24 hours per day, seven days a week, other work activities are generally carried out during standard construction hours. Some activities such as utility investigation work or work on busy roads must be carried out at night for the safety of workers, motorists and pedestrians.

Please see below an overview of potential out-of-hours construction work for the next three months. If you have an enquiry or would like to provide feedback about the work, including appropriate respite periods, please contact the AFJV community team on the details provided below.

Activity	Location	Noise impact	Timing
<b>Utility investigation</b>	Great North Road & Second Avenue, Five Dock Corner of Great North Road and Parramatta Road, Five Dock Sydney Metro properties (to disconnect existing utilities before demolition starts)	Medium to high	Up to 8 nights in November, December and January
<b>Environmental management and emergency work</b>	Only required in case of emergency	Subject to nature of work	Only required in case of emergency
<b>Oversize equipment deliveries</b>	Station sites	Low	As required

## Community drop-in session

AFJV will host a community drop-in session in Five Dock in early December where you will be able to meet members of the team, ask questions about the project and learn about the construction program. More details will be provided as soon as the date is confirmed.

The team has started visiting businesses and meeting local residents to discuss upcoming work. If you have any questions or would like to arrange a meeting please do not hesitate to get in touch (see contact details below).

## Sydney Metro West planning process


Future planning approvals will consider stations, depots and rail systems between Westmead and the Sydney CBD and integrated station and precinct developments.

The Sydney Metro team will keep you updated every step of the way and let you know when it's time to have your say. Sydney Metro West planning documents and further information is available at: [sydneymetro.info/metrowest](http://sydneymetro.info/metrowest) or [planningportal.nsw.gov.au/majorprojects](http://planningportal.nsw.gov.au/majorprojects)

## Sydney Metro Connect – a new way to stay informed



Download Sydney Metro Connect onto your smart device to stay informed about current work and project milestones.


- Receive notifications for upcoming work in your area.
- Access information in more than 100 languages.
- News and personalised updates all in one place.
- Get more information digitally.



**Sydney Metro Connect**

Use the QR code to download from the App Store or Google Play.



Scan the QR code with your device camera or QR code reader

## Contact us

-  **1800 612 173** Community information line open 24 hours
-  **MetrotunnelsAFJV@transport.nsw.gov.au**
-  **Sydney Metro West**, PO Box K659, Haymarket NSW 1240
-  If you need an interpreter, contact TIS National on **131 450** and ask them to call **1800 612 173**