

Monthly construction update

South Yarra

NOVEMBER 2020

Works to construct the Metro Tunnel's eastern entrance in South Yarra will continue throughout November. This month's focus is on installing the rainwater detention tank walls, the egress shaft fit-out and the tunnel boring machine (TBM) retrieval works.

Construction snapshot

Construction works will include:

- Fitting out the egress shaft
- Constructing the internal tunnel entrance wall
- Installing drainage on Arthur Street
- Installing the rainwater detention tank walls and roof
- Undertaking underground services and pavement works
- Installing retaining walls along the Sandringham rail lines
- Preparing and constructing cross passages
- Retrieving the tunnel boring machine (TBM).

Further information on these works can be found overleaf or at metrotunnel.vic.gov.au.

When are we working?



Normal construction hours

7am to 6pm, Monday to Friday, and 7am to 1pm, Saturdays.

Some activities may be required to continue slightly past these hours. All efforts will be made to complete activities as scheduled.



Out of hours

Some works are required to take place out of normal construction hours.



24 hours

24-hour works are sometimes required during peak construction activities.

Health and safety

Metro Tunnel works are progressing safely under the current Second Step restrictions in metropolitan Melbourne.

You may notice an increase of workers on Victoria's Big Build projects as restrictions on construction sites start to ease. Large-scale public infrastructure projects are critical and strict COVIDsafe Plans are in place on all project sites across Victoria.

The health and safety of our workforce and community remains our top priority. Workers on

all of Victoria's Big Build sites are required to wear face masks unless they meet any of the criteria for exception – such as a medical condition for Occupational Health and Safety guidelines.

Physical distancing measures are in place as well as increased hygiene practices.

For more information and advice about the coronavirus (COVID-19), please visit coronavirus.vic.gov.au.

Works in your area

Egress shaft fit-out works

South Yarra Siding Reserve

Ongoing to late-November 2020



- Construction of the egress shaft was completed in October
- Works to finalise the internal and external fit-out will continue throughout November. This will include installing pre-cast panels and roofing, and external finishes including hard and soft landscaping works
- These works will require the use of a crane to lower materials into the egress shaft, a concrete pump, elevated work platforms and work crews using hand tools
- Works are expected to generate medium levels of noise.

Constructing the internal tunnel entrance walls

South Yarra Siding Reserve

Ongoing to late-December 2020

Normal construction hours to 15 November

24/6 works from 16 November

until 5 December



- Works to finalise the internal wall of the tunnel entrance will continue throughout November
- This will involve a number of concrete pours, and spraying concrete (shotcrete) to line the walls of the tunnel
- During concrete pours, additional trucks will be required to enter and exit the South Yarra Siding Reserve
- Steel formwork will be installed and fixed into place using hand tools
- During concrete pours, additional trucks will be required to enter and exit the South Yarra Siding Reserve
- These works will require the use of elevated work platforms, a forklift and work crews using hand tools. Vents that provide air to workers inside the tunnel will be required to run continuously during these works. Noise impacts are expected to be low
- Works are expected to generate low levels of noise, with some medium level peaks. The depth of the work area and the concrete roof slab will help suppress construction noise as works progress underground.

Arthur Street drain installation works

Arthur Street

Ongoing to 5 December 2020



- Works to install additional drainage pipes under Arthur Street commenced in October. These pipes will connect the new rainwater detention tank to the existing stormwater system
- Further drainage works will take place within the worksite in the South Yarra Siding Reserve

- Works will involve removing sections of the asphalt on Arthur Street, to expose existing drainage. Once the pipes are connected, works to reinstate the road will take place
- These works will require the use of excavators, a crane, a telehandler, non-destructive digging (NDD) and work crews using hand tools
- These works are expected to generate medium to high levels of noise
- A section of Arthur Street from Chapel Street to 50 Arthur Street will be closed from Thursday 5 November to Saturday 5 December while we complete these works (see map).

Rainwater detention tank wall and roof works

South Yarra Siding Reserve

Ongoing to mid-December 2020



- Construction of the detention tank walls and roof will continue throughout November
- Works will include waterproofing and connecting the previously installed panels using concrete
- These works will involve the use of a small crane, a concrete pump and work crews using hand tools
- Works are expected to generate low to medium levels of noise.

Underground services and pavement works

Lovers Walk and Arthur Street

Early-November to late December 2020



- Works to install underground services and pavement along Lovers Walk will start in November
- These works will include installing cable conduits, pits and light pole foundations along Lovers Walk
- These works will involve the use of a small excavator and work crews using hand tools
- Works are expected to generate low levels of noise.

Retaining wall works

South Yarra Siding Reserve

Mid-November to late-December 2020



- Works to construct the retaining wall will start in November
- These works will include installing continuous flight auger (CFA) piles, a capping beam and stairs along the Sandringham rail lines
- Works will involve the use of an excavator, piling rigs, a crane and work crews using hand tools to spray concrete (shotcrete) to line the capping beam
- Works are expected to generate medium to high levels of noise and medium levels of vibration.

Cross passage construction preparatory works

Osborne Street

Until late 2020



- Preparatory works for constructing the cross passages will start in the TBM retrieval shaft and inside the tunnels in November

- A cross passage is a short tunnel that connects the two parallel tunnels. These passages are an important safety feature that allow people (including emergency services) to move from one tunnel to the other
- Preparatory works include mobilising working platforms, grouting to improve ground conditions and installing supporting structures for the excavation
- There are to be six cross passages located between Anzac Station and the Eastern Portal. Excavation for the cross passages will commence underground inside the tunnels in early 2021.

Tunnel boring machine retrieval

Osborne Street

Ongoing until late November



- With tunnel boring machine (TBM) Alice arriving at the Eastern Portal in early October, tunnelling between the Anzac Station and South Yarra is now complete
- All oversized deliveries to Domain have been completed for TBM Millie, and the remaining oversized deliveries for TBM Alice are expected to be complete in early November
- Using the gantry crane, the final TBM parts will be removed from the shaft and loaded onto trucks during the day. The TBM parts will then be driven

from Osborne Street to the Anzac Station site between 1am – 5am

- Once these oversized transports are complete, temporary parking restrictions on Osborne Street and Toorak Road will no longer be required
- 24/7 works will continue inside the retrieval shaft until late November to facilitate the retrieval of each TBM's gantry pieces, which will be pulled back through the completed eastbound tunnel
- The gantry crane will be used to pick up and turn the gantry pieces from Alice's westbound tunnel before they are pulled back through Millie's completed eastbound tunnel to Domain
- This program has been designed to ensure noisier works are prioritised for daytime working hours. Low levels of noise are expected for works occurring within the shaft, however there will be some periods of high-level noise on evenings when TBM pieces are transported off site.

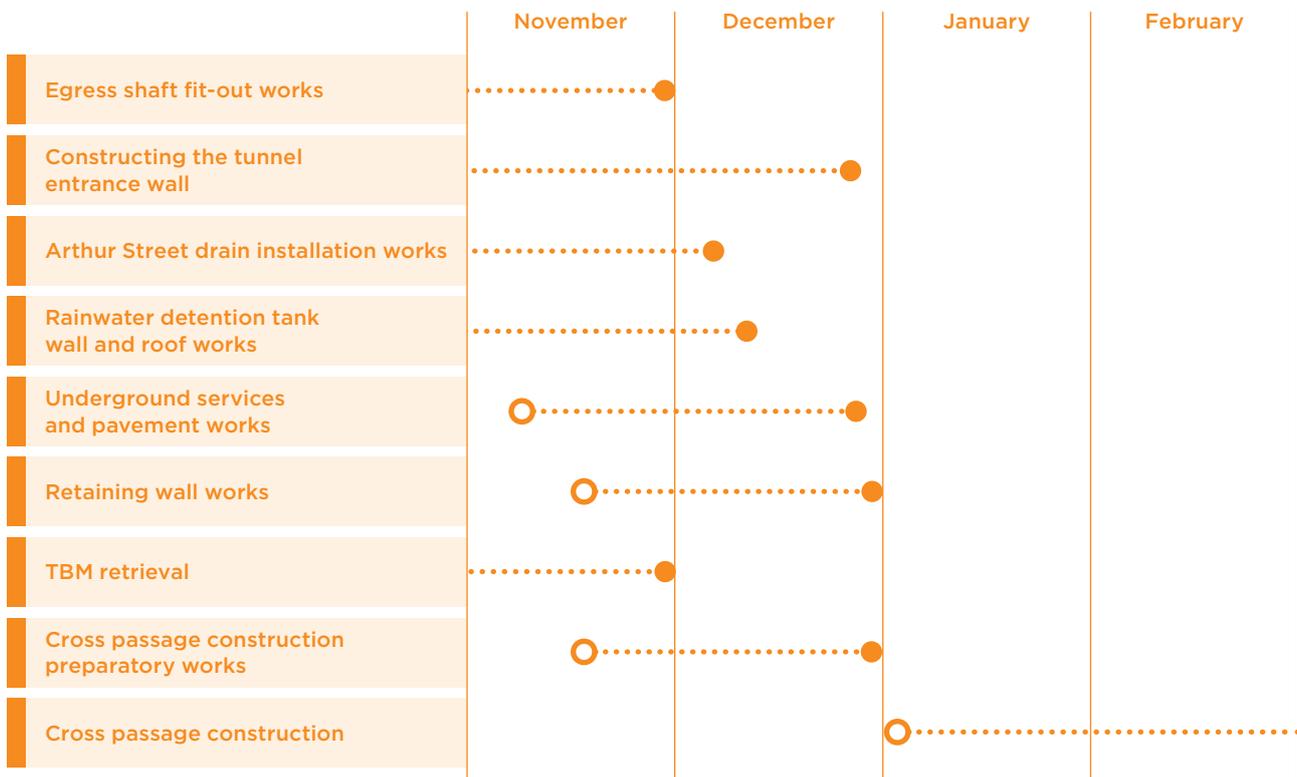
Changes to normal construction hours

Due to COVID-19 we are ensuring social distancing on site. The project will now be running two pre-start meetings with our workforce.

Pre-starts will run between 6am and 7am. Additional movements on site may be noticed.



Look ahead for 2020-2021



South Yarra substation

An electrical substation is required in South Yarra to enable bigger, more modern trains to run more often on the Cranbourne /Pakenham lines once the Metro Tunnel Project is complete.

The new high capacity trains will provide a more comfortable ride for passengers with improved seating, standing areas, and cooling and heating designed for Melbourne's weather.

We are hosting two online community information sessions to provide additional information and to answer any questions you may have about the South Yarra substation.

The sessions will be held via the free video conferencing program, Zoom, and will involve a brief presentation by the project team, followed by a question and answer session.

Session one

6.30pm to 7.30pm, Wednesday 4 November 2020

Session two

11am to 12pm, Saturday 7 November 2020

If you would like to attend please email RIACommunications@railinfrastructurealliance.com.au advising your name and nominating your preferred session. You will then be sent the Zoom link and login instructions the day prior to the session.

Please visit railprojects.vic.gov.au for more information about the substation.

Traffic impacts

- As previously notified, two piling rigs will be delivered to the Sidings Reserve via Toorak and William Street between 2am and 5am on Thursday 5 November. These rigs will be removed from site between Thursday 12 and Wednesday 18 November – residents will be notified of the exact date as soon as it is confirmed
- A section of Arthur Street will be closed from Thursday 5 November to Saturday 5 December while we complete drainage works along Arthur Street
- Oversized deliveries, including TBM parts, will continue to depart the Osborne Street site between 1am and 5am until early November. Up to date information on the schedule of oversized TBM transports can be found here: <https://metrotunnel.vic.gov.au/disruptions/transport-changes/oversized-deliveries>.

More information

To find out more about the Metro Tunnel Project:

 metrotunnel.vic.gov.au

 1800 105 105 (24 hours a day, 7 days a week)

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It should be noted that this information is current at the time of printing, however due to unforeseen circumstances, changes may occur. Please visit railprojects.vic.gov.au for the latest updates.