



## MONTHLY CONSTRUCTION UPDATE

### KENSINGTON FEBRUARY 2020

Major construction is continuing in Kensington at the site of the future western tunnel entrance. This update provides an outline of current and upcoming works in your area throughout late January and February.

#### Construction snapshot

Major works to prepare the tunnel boring machine (TBM) retrieval shaft for the arrival of the project's first two TBMs are nearly complete. Works are continuing to construct diaphragm walls (D-walls) and tunnel entrance excavation will commence in the coming weeks.

In late January and February, works within the Kensington precinct will include:

- TBM retrieval shaft construction
- Tunnelling, including TBM breakthrough and retrieval
- Tunnel cross passage ground improvement site reinstatement works
- Installation of monitoring instrumentation and survey activities
- D-wall construction
- Capping beam works
- Tunnel entrance excavation
- Temporary propping installation.

Further information on these works can be found overleaf or at [metro.tunnel.vic.gov.au](http://metro.tunnel.vic.gov.au)

#### When are we working?



##### Normal construction hours

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



##### Out of hours

Some works are required to take place out of normal construction hours. The timing of these works are outlined in the construction information overleaf.



##### 24 hours

24 hour works are sometimes required during peak construction activities. The timing of these works are outlined in the construction information overleaf.

#### Project Information Line

**1800 105 105**

24 hours a day, 7 days a week  
Press 2 for Metro Tunnel

# WORKS IN YOUR AREA

## TBM retrieval shaft construction

Childers Street

24 hours

Until mid-February 2020



- Works to construct the internal walls of the TBM retrieval shaft are ongoing. This involves using concrete trucks and pumps, and cranes to lift steel reinforcement into the shaft
- Excavator-mounted jackhammers will be used to break back sections of concrete. Jackhammers will be used during the daytime only
- Out of hours works will continue through until mid-February, as required. The majority of these works will include steel fixing and installation of steel molds (form work)
- Works during the day may generate periods of medium to loud noise. Out of hours work are expected to generate low levels of noise.

## Tunnelling

From North Melbourne towards Kensington

Ongoing until March 2020



- The project's first two TBMs continue tunnelling from the site of the new North Melbourne Station towards Kensington
- The first TBM is expected to arrive at the TBM retrieval shaft in mid-February. Please see the enclosed TBM breakthrough and retrieval notification for further detail.
- On average, the TBMs are moving around 10 metres every 24 hours
- Properties located near tunnelling will be contacted with further information prior to tunnelling occurring in their area
- Property condition surveys have been completed for eligible properties based on an environmental assessment.

## Tunnel entrance excavation

Childers Street

February to March 2020



Tunnel entrance excavation will start in early February and is expected to occur in stages throughout 2020. See the map overleaf for the location of the stage one works area.

- Earthworks, including use of a vibrating roller and placing crushed rock to construct new access ramps and a stable working platform within the tunnel entrance.
- The working platform allows for work to commence on building the tunnel entrance concrete base later this year.
- During excavation of the tunnel entrance, material will be removed using excavators located at the top of, and within the tunnel entrance

- Trucks with trailers will be used to remove the material from site, and will utilise the turnaround area on Childers Street adjacent to South Kensington station
- Installing new drainage, which involves placing new drainage pipes and pits
- Constructing a 30-metre concrete slab at the base of the tunnel entrance involving installing waterproofing materials, placing steel and pouring concrete
- These works are expected to generate low to medium levels of noise and low levels of vibration to nearby residents associated with the use of the vibrating roller.

## Temporary support prop installation

Childers Street

February to March 2020



During excavation works, 13 temporary steel support props will be installed. Once the props are installed, tunnel entrance excavation will take place in between each prop.

- Installing temporary steel props, using a crane to lift them into place
- Steel props are then fixed in place with power tools and a hydraulic pump. The hydraulic pump assists with expanding the prop size so that it provides the correct support
- These works are expected to generate low to medium levels of noise.

## Diaphragm-wall construction

Childers Street and Hobsons Road

7am to 11pm Monday to Saturday

Ongoing until April 2020



Diaphragm-walls (D-walls) will be constructed opposite the South Kensington station platforms (see map overleaf for location of works). Extended working hours will be in place until April 2020, with all remaining D-wall panels due to be complete by mid-2020.

More information on D-wall works can be found at [metrotunnel.vic.gov.au/construction/kensington](http://metrotunnel.vic.gov.au/construction/kensington).

## D-wall access ramp construction and site preparation works

Childers Street

Late January to mid-February 2020



- A new access ramp will be constructed to allow machinery to continue undertaking d-wall works. After the new ramp is completed, existing ramps will be removed to allow for TBM retrieval.
- Earthworks, including use of a vibrating roller and placing crushed rock to construct new access ramp
- Relocation of concrete barriers along Childers Street prior to TBM retrieval.

- These works are expected to generate low to medium levels of noise and low levels of vibration to nearby residents associated with the use of the vibrating roller.

## Capping beam works

Childers Street

7am to 11pm, Monday to Saturday

February to mid-2020



- Once D-wall sections are complete, works will commence to break back (level off) D-walls and remove guide walls using a jackhammer, saw cutter and excavator. A capping beam will then be installed to tie D-wall panels together
- These works will be undertaken in stages of up to three-weeks once D-wall sections are installed
- Break back works are expected to generate periods of high-level noise and will be undertaken during normal working hours. Capping beam works are expected to generate low levels of noise to nearby residents

## Relocation of power pole support cable

Kensington Road

7am to 6pm, Monday to Saturday

Late-February 2020



- A small cable which supports a power pole on the corner of Kensington Road and Childers Street requires replacing to allow Metro Tunnel works in this area later in the year.
- This will involve temporarily removing concrete barriers, removing the existing cable and realigning a new support cable.

- These works will take up to two weeks in late-February and will be undertaken by Jemena who manage the electricity network in the area
- Traffic management including lane closures and minor footpath detours will be required on Kensington Road for these works
- For any further information on these works, please contact Jemena on **1300 131 871** or [jemena.com.au/contact-us](http://jemena.com.au/contact-us)

## Tunnel cross passage reinstatement works

Lloyd Street

Ongoing until March 2020



- Lloyd Street will remain in its current temporary alignment until after the TBMs have passed underneath the area. This will allow for on-site monitoring of the Lloyd Street bridge during tunnelling
- Intermittent overnight closures of Lloyd Street may be required during reinstatement works
- Access to and from the Lloyd Street Business Estate will be maintained at all times.

## Approach structure construction

Childers Street

Ongoing until late February 2020



- Steel installation and concreting works will be undertaken on the remaining section of the approach structure next to the recently installed D-wall panels
- These works will involve installing and welding reinforcement steel and concrete pours
- These works are expected to generate medium level noise.



## Traffic and transport impacts

### Childers Street

- Childers Street is closed to all traffic until September 2020
- Over-height vehicles accessing the Lloyd Street Business Estate and Childers Street residents are required to detour via Kensington Road, Derby Street and Tennyson Street during this time
- Traffic controllers are in place on Kensington Road and Childers Street to assist trucks reversing into site
- Traffic management will be in place from 7am to 11pm, Monday to Saturday until April 2020.

### Parking

- A free public car park is available on the corner of Kensington Road and Hobsons Road. Please use this car park.

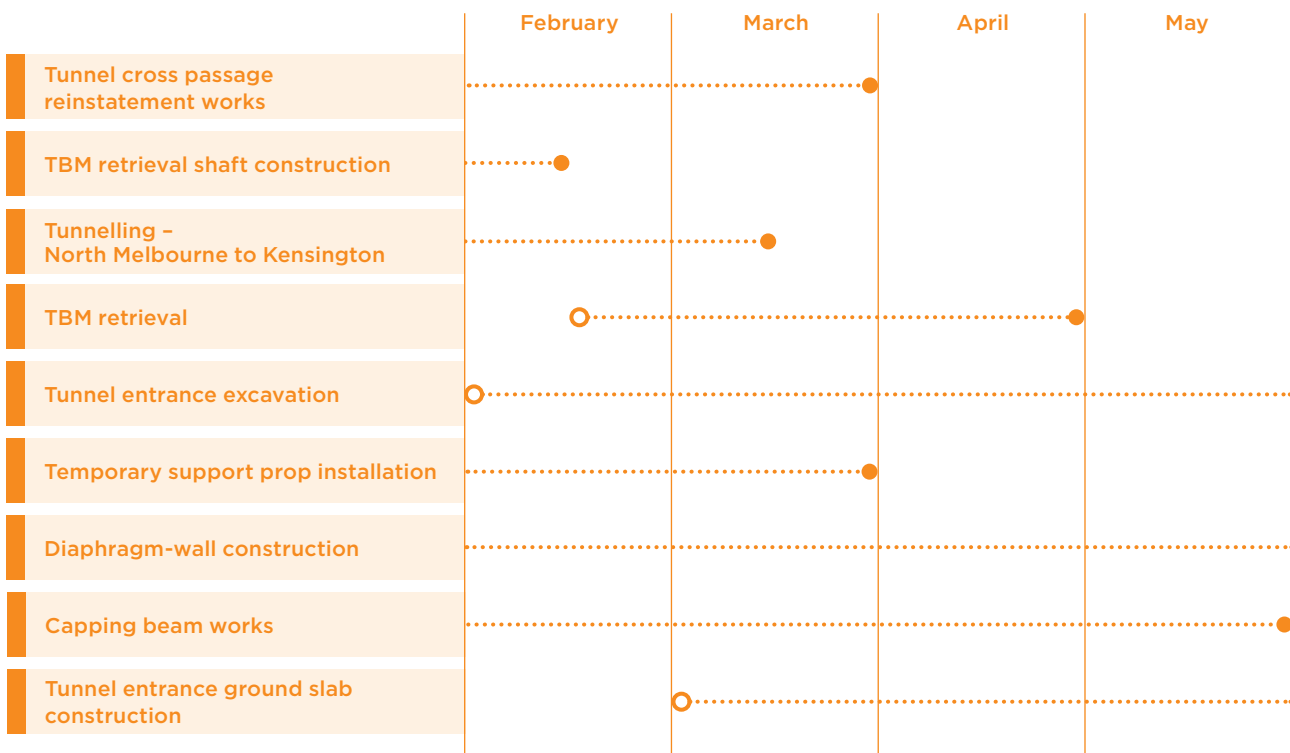
### Cyclist detour

- While Childers Street is closed to all traffic, a cyclist detour is in place via Kensington Road and Altona Street.

### TBM part transportation

- Oversized TBM pieces will be transported back to the site of the new North Melbourne Station at night, subject to permits
- See the enclosed TBM breakthrough and retrieval notification for further detail.

## LOOK AHEAD FOR 2020



### More information

To find out more about the Metro Tunnel Project and register for future email updates:

-  [metrotunnel.vic.gov.au](http://metrotunnel.vic.gov.au)
-  1800 105 105 (24 hours a day, 7 days a week)  
Press 2 and follow the prompts
-  [facebook.com/metrotunnel](https://facebook.com/metrotunnel)
-  Subscribe to eNews or construction notification emails: [metrotunnel.vic.gov.au/subscribe](mailto:metrotunnel.vic.gov.au/subscribe)



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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 [metrotunnel.vic.gov.au](http://metrotunnel.vic.gov.au) for the latest updates.