



## KENSINGTON COMMUNITY REFERENCE GROUP

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MEETING 2

28 MARCH 2019



# COMMUNITY UPDATE

# DISCUSSION ITEMS

- Bicycle Network community education campaign
  - Discussion lead by BNV
- Asbestos finds at Hobsons Road site
  - Project team to respond
- Site hoarding and noise barriers
  - Project team to respond
- Acoustic shed for St Kilda Road / Domain worksite
  - Project team to respond
- Dust mitigation measures at Western Portal site
  - Addressed in presentation (environment update)
- Tunnelling noise and vibration modelling and mitigation
  - Addressed in presentation (tunnelling)

# TOP ISSUES

## Key issues raised during February and March

- **Construction fatigue**
  - Ongoing dialogue with MTM on planned maintenance works
  - Proactive door knocks in the lead up to out of hours works
- **Parking in local streets**
  - Reconfiguration of work site car park to increase capacity
- **Cyclist and pedestrian interface near South Kensington station**
  - Additional wayfinding signage, line marking changes and installation of additional chicanes
  - Road safety audit
- **Site amenity**
  - Installation of additional noise mats to turning bay gawk screen, and replacement of water filled barrier at the end of Ormond Street
- **Noise from piling activities**
  - Ongoing communication with residents



# COMMUNICATION AND ENGAGEMENT

## Notifications and communications

- LSBE cross passage Construction Update (12 February)
- March Kensington Construction Update (26 February)
- Notification of disruptive works, Altona Street (7 March)
- Invitation to Kensington CommUNITY Festival (15 March)
- April Kensington Construction Update (26 March)

## Door knocks, meetings, briefings and events

- Kensington Road resident door knock (19 February)
- LSBE health check doorknocks (27 February)
- City of Melbourne fortnightly progress meetings (4 March, 6 March, 18 March, 20 March)
- KCCC fortnightly progress meetings (6 March, 20 March)
- Kensington and Hobsons roads business health check (13 March)
- Lloyd Street Business Estate fortnightly progress meetings (8 March, 22 March)
- One-on-one meetings with community members throughout February & March



# CREATIVE PROGRAM UPDATE

## **Hoarding artwork**

- Community celebration and painting event – Kensington CommUNITY Festival, Sunday 31 March (10am – 4pm)

# KCCC HOARDING PAINTING EXCURSION



# HOARDING ARTWORK, ORMOND ST







# PROGRAM

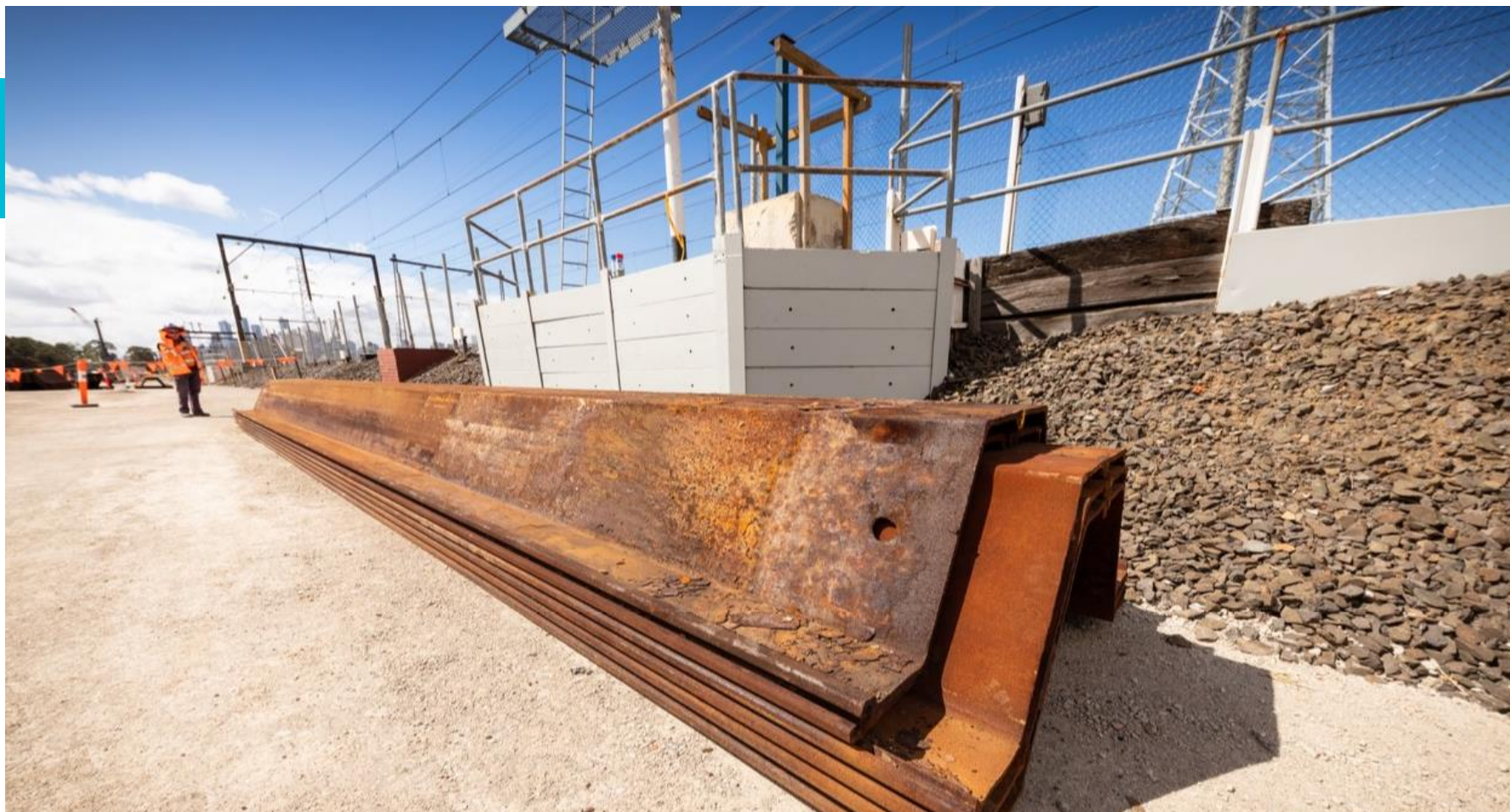
# PROGRESS UPDATE

## Recently completed activities

- Rail embankment retaining wall (sheet piling)
- Rail signals and overhead structure relocation
- Installation of cyclist detour route signage in Altona Street
- Temporary realignment of McLennan Drive (Lloyd Street Business Estate) and Lloyd Street work area
- Establishment of grout batching equipment (CP2)
- Grouting trials (CP2/CP3)
- Gas protection (Lloyd Street Business Estate – CP2)

# ROAD-SIDE PILING, CHILDERS STREET





**SHEET PILES PRIOR TO INSTALLATION**

# SHEET PILING RIG



# CONSTRUCTION PROGRAM

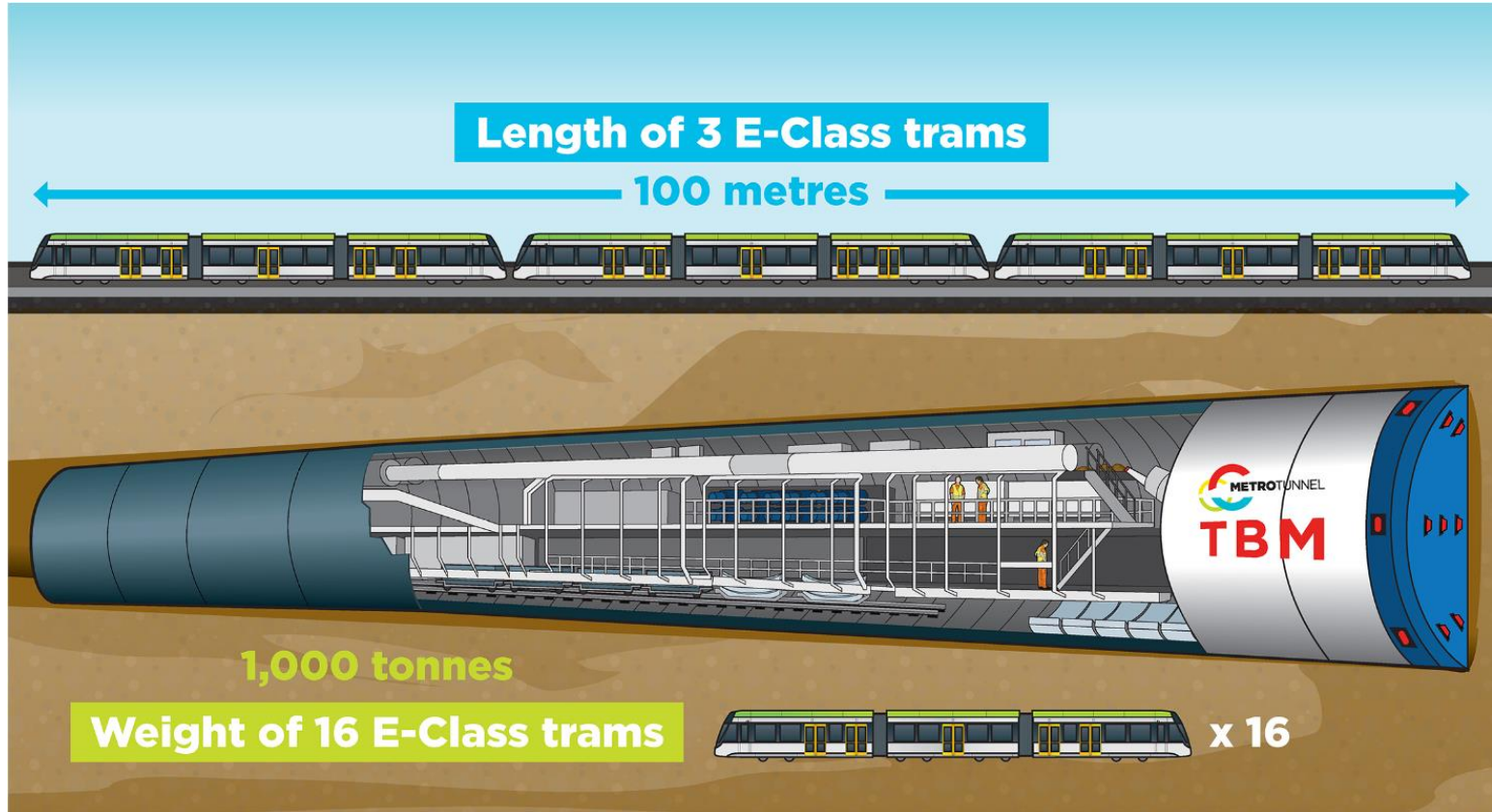
Activity	Mar	Apr	May	Jun	Jul
Site preparation and service investigations					
Temporary bentonite facility construction					
Driven piling					
Diaphragm wall works					
Road-side bored piling/pile cap					
Cross passage ground improvement works					
TBM retrieval shaft excavation/propping					
Tunnelling (North Melbourne – Kensington)					

Program is indicative and subject to change



# TUNNELLING

# TUNNEL BORING MACHINES (TBM)





# TUNNELLING TIMELINE

Timing	Route
January 2019 – mid 2019	TBMs arrive Arden and assembled
3rd quarter – 4th quarter 2019	TBM 1&2 – Arden to Western Portal
4th quarter 2019 – 1st quarter 2020	TBM 1&2 – transported back to Arden
1st quarter 2020 – mid 2020	TBM 1&2 – Arden to Parkville

Timing is indicative and subject to change

# TBM ARRIVAL





# TUNNELLING COMMUNICATIONS & ENGAGEMENT

- Connecting with residents and businesses near tunnelling activities, and the wider community
- Visits to residents and businesses
- Delivering information directly to residents and businesses
- Community meetings and events to meet the Project Team and ask questions
- Find out more via the website [www.metrotunnel.vic.gov.au](http://www.metrotunnel.vic.gov.au)
- Call the Project Team 24/7 on 1800 105 105
- Visit the Project Team @ Metro Tunnel HQ, Swanston Street, Melbourne
- Discussion at six weekly precinct Community Reference Group (CRG) meetings.



# ENVIRONMENT UPDATE



# TUNNELLING – CONSTRUCTION NOISE & VIBRATION

- TBM ground borne noise and vibration assessment consultation – Q2 2019
- Operational noise & vibration assessment consultation – Q2 2019
- Property Condition Surveys will be undertaken approximately three months prior to TBM passing through.

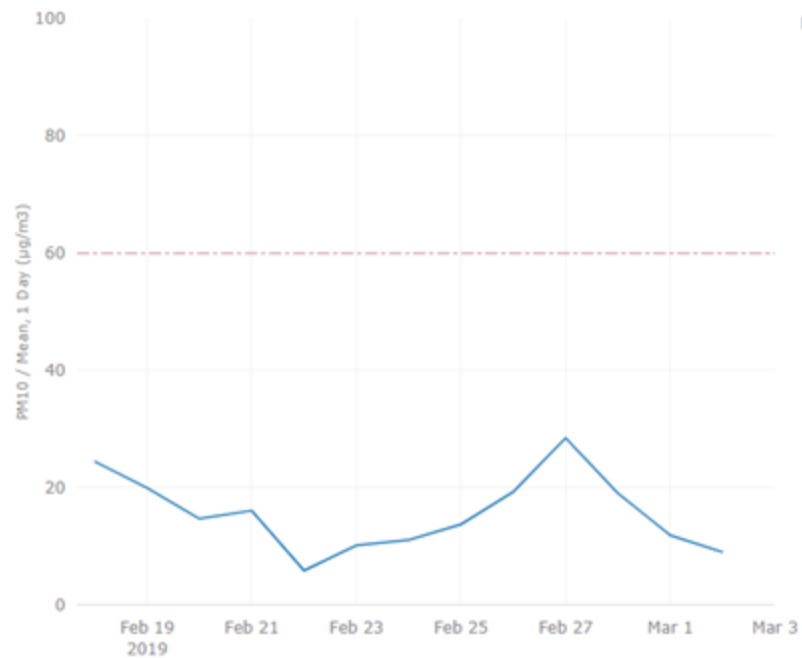
# AIR QUALITY

- Air Quality Impact Assessment (Western Portal)
- Model dispersion for construction scenarios:
  - Site establishment
  - Piling
  - Excavation
- Informs the Air Quality, Dust and Light Management Plan (project wide)
- Outlines site specific mitigation measures to be adopted:
  - Stabilised access points (stabilised material)
  - Wet suppression (water carts, hoses, polymer)
  - Covered truck loads
  - Sweeping roads
- Particulate Matter monitoring – PM10 and PM2.5

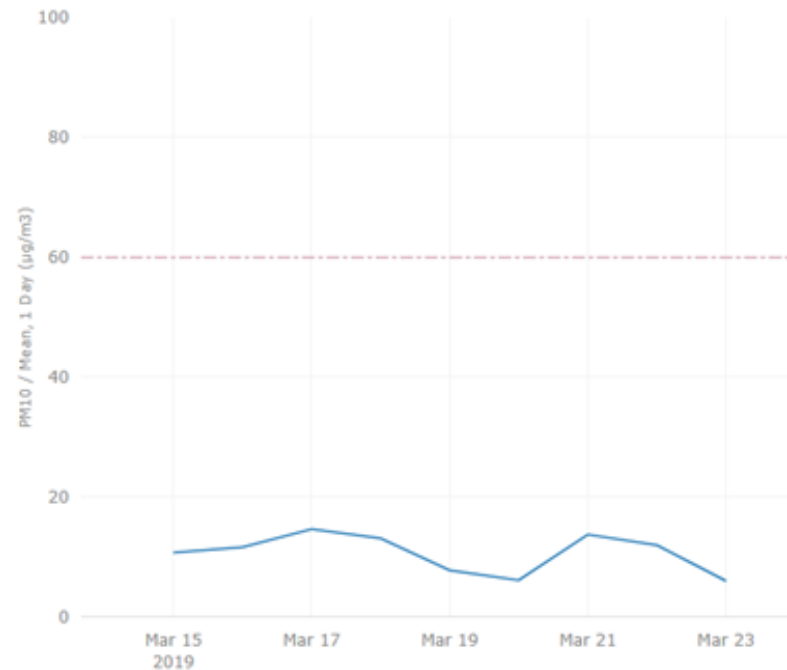
# AIR QUALITY

## Results – PM10:

DEVICE DATA



DEVICE DATA



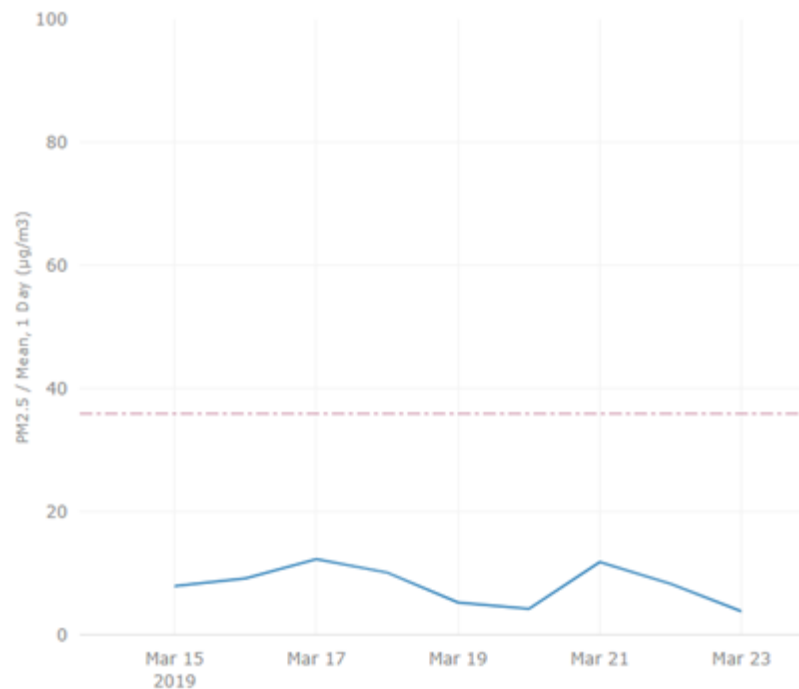
# AIR QUALITY

## Results – PM2.5:

DEVICE DATA



DEVICE DATA





# NOISE MONITORING - UNATTENDED

DEVICE DATA



# DRIVEN PILING

- Predictive noise modelling assessments completed for upcoming works:
  - Kensington Road precinct: modelled 60 – 65 Db
  - Childers Street/Altona Street precinct: modelled 50 – 55 Db
  - Model to be validated once piling commences
- Vibration
  - May be noticeable to residents when driven piles are working through hard ground
  - Modelled levels well below cosmetic damage thresholds
- Property condition surveys
  - Continuing to reach out to property owners prior to driven piling
  - Corresponded with 46 properties regarding pre-condition survey



# SOIL CLASSIFICATION AND REMOVAL

- Soil sampling and classification using EPA guidelines
- Removal of spoil offsite using EPA licensed trucks and covered.
- Asbestos found on site is removed by qualified removalist under supervision of hygienist
- Transported to a pre-determined location and facility using covered trucks
- Removal of contaminated spoil poses no safety risk to site staff or public

# TRAFFIC AND TRANSPORT

# TRAFFIC MANAGEMENT

## Upcoming activities

- Traffic management at Kensington and Hobsons roads during traffic signal upgrades
- Increased truck movements associated with driven piling pad earthworks and driven piling deliveries (up to 10 vehicles per hour)
- Traffic management within LSBE for ground improvement works
- Closure of Childers Street to all through traffic for road-side pile break pack and capping works (2-3 weeks during April/May)
  - Over-height and resident vehicles detoured via Derby and Tennyson streets
  - Traffic management and signage in place
  - May be required 24/7 during works

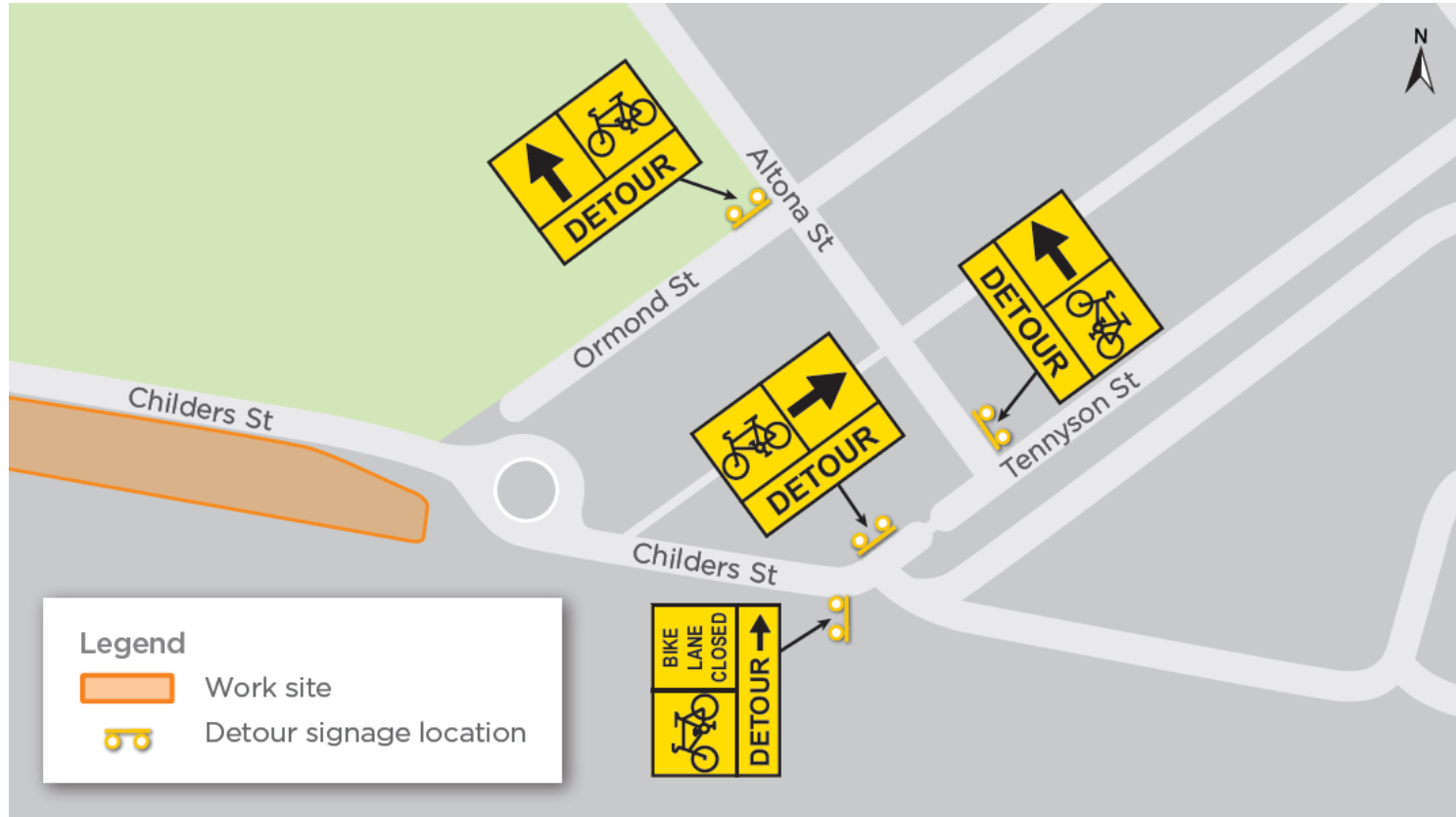


# CYCLIST AND PEDESTRIAN INTERFACE

## **Additional measures undertaken in response to community feedback**

- Installation of additional wayfinding signage
- Removal of cycle lane markings on Childers Street (between South Kensington station and the LSBE)
- Installation of additional chicanes at each end of the path around the turning bay area
- Meetings with Bicycle Network Victoria and provision of information for inclusion in member newsletters (ongoing)

# CYCLIST DETOUR ROUTE - SIGNAGE





# DESIGN DEVELOPMENT



# RIA DEVELOPMENT PLAN - KEY THEMES

Area	Feedback
Childers Street	<ul style="list-style-type: none"><li>• Reopen to all traffic and ensure street is wide enough to let two trucks pass</li><li>• Consider additional canopy tree planting</li><li>• Ensure safety for cyclists along Childers Street</li><li>• Consider installing additional pedestrian crossing</li></ul>
Flood wall treatment	<ul style="list-style-type: none"><li>• Consider “green wall” treatment or community art project</li><li>• Concerns with aesthetic of the concrete wall</li><li>• Ensure wall has graffiti deterrent treatment</li></ul>

# RIA DEVELOPMENT PLAN - KEY THEMES

Area	Feedback
Station entrance	<ul style="list-style-type: none"><li>• General support for proposed station entrance and forecourt design</li><li>• Requests for seating/edge designs to deter skateboarders</li><li>• Consider additional trees and shelter</li></ul>
135 Ormond Street	<ul style="list-style-type: none"><li>• General support for proposed 'pocket park' design</li><li>• Consider additional canopy tree planting and reduce use of hard surfaces</li><li>• Consider extending truncation of Ormond Street to enable vehicles to turn around</li><li>• Consider use of rock baskets in retaining walls</li></ul>

# NEXT STEPS

Timing	Activity
Now	<ul style="list-style-type: none"><li>• Finalising development plan and reviewing submissions</li></ul>
April 2019	<ul style="list-style-type: none"><li>• Development plan submission</li></ul>
Mid-2019	<ul style="list-style-type: none"><li>• Anticipated approval from Minister of Planning</li></ul>
Ongoing	<ul style="list-style-type: none"><li>• Continue engaging with the local community and stakeholders as detailed design progresses</li></ul>



**OTHER ITEMS?**



Western Portal

South Kensington

North Melbourne

Parkville

The existing 'North Melbourne' station will be renamed West Melbourne.

West Melbourne

Melbourne Central

Flagstaff

Southern Cross

Flinders Street

State Library

Parliament

Town Hall

Anzac

Richmond

South Yarra

Eastern Portal

Sunbury Line

Cranbourne / Pakenham Line