

# SOUTH YARRA (EASTERN PORTAL) PRECINCT

COMMUNITY REFERENCE GROUP

20 OCTOBER 2020



# South Yarra Station Upgrade

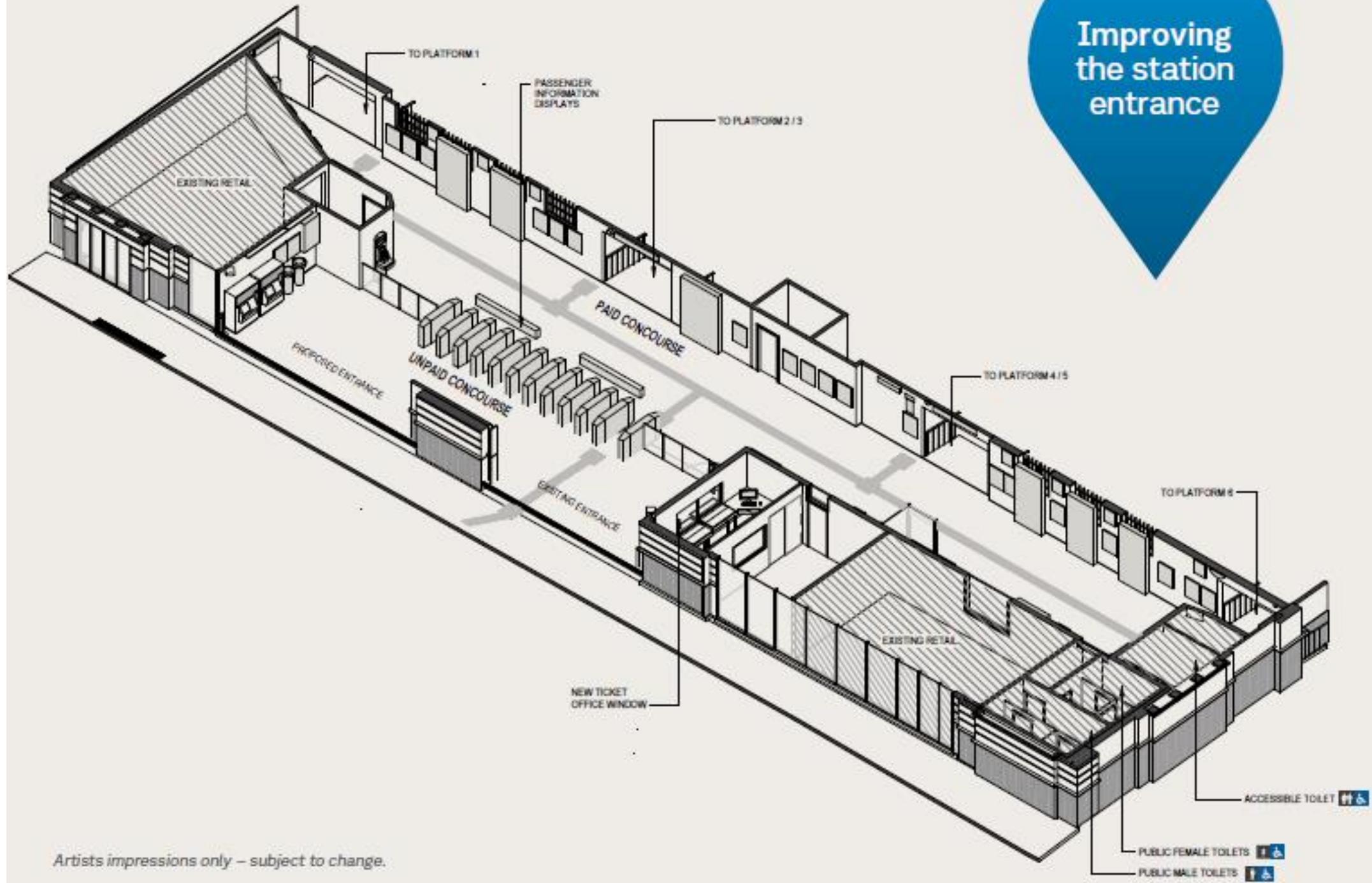


# South Yarra Station Upgrade

- Create a safer and more accessible space with improvements to the entrance, new canopy and an accessible tram stop on Toorak Road.
- Station entrance stage one improvements:
  - widening the station entrance on Toorak Road
  - refurbishment of the concourse area
  - upgrading the booking and staff office facilities
  - more myki gates with better layout
  - improved customer wayfinding
- Stage two will deliver a new wider canopy over the station entrance
- Stage three will construct an accessible tram stop



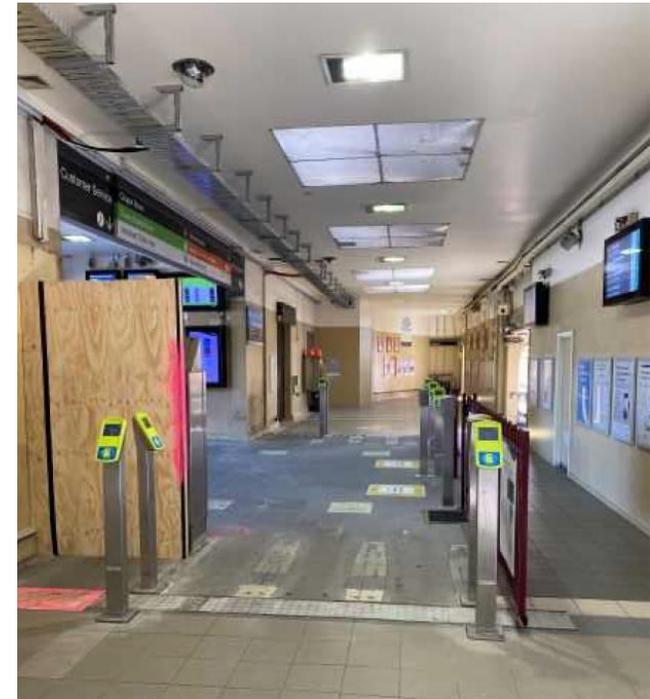
# Improving the station entrance



Artists impressions only – subject to change.

# Station Entrance construction update

Task/Milestone	Date
Construction Works Commencement – Site Mobilisation	1 October 2020
Hoarding Construction Commencement (Night Works Start)	5 October 2020
Café Demolition Works Commence	9 October 2020
Stage 2: Canopy Works Commencement	TBC Upcoming
Temporary Booking Office Construction Completion	18 December 2020



# COVID-19 UPDATE

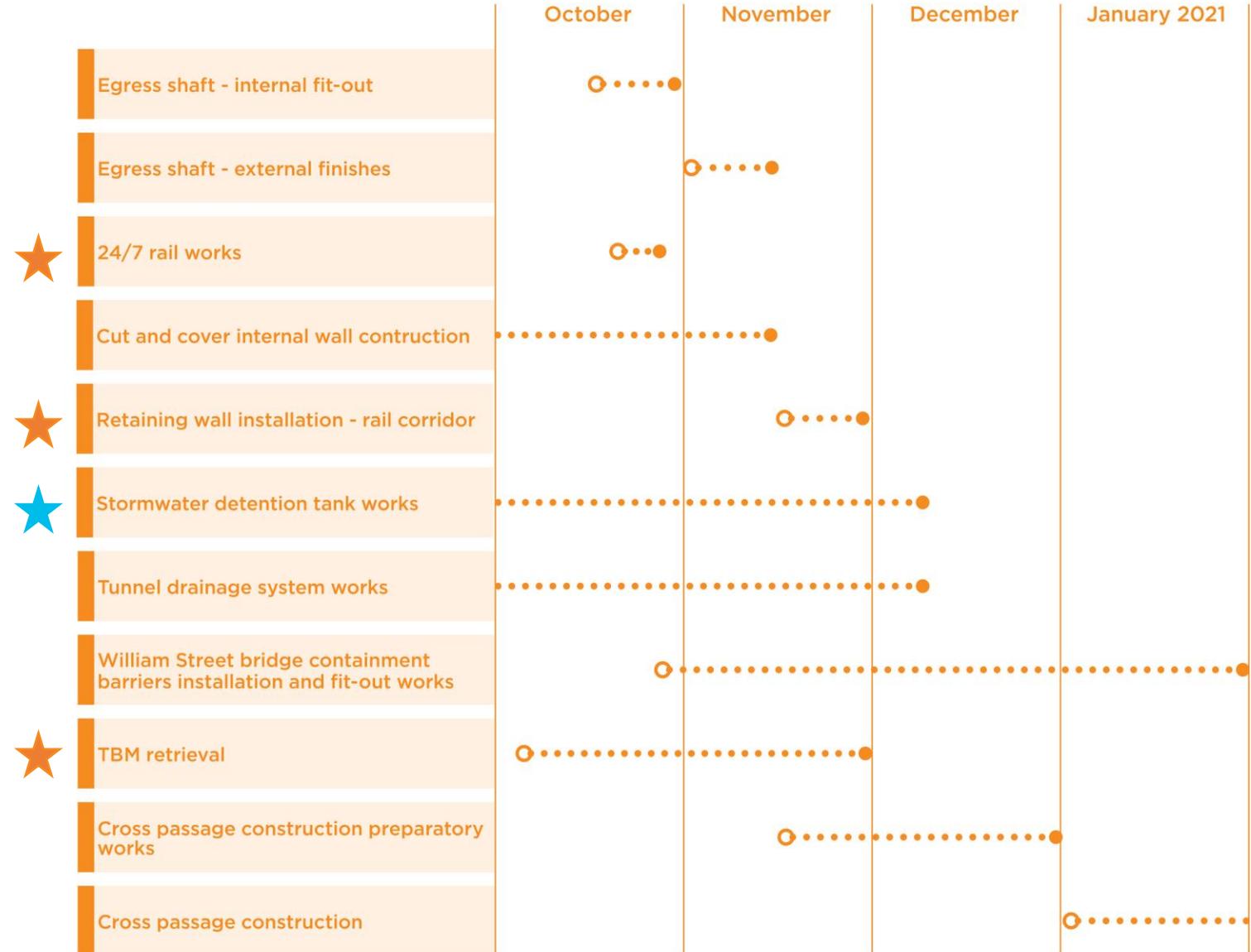
- Construction is continuing on the Metro Tunnel Project
- The health and safety of the community and our workers is our key priority
- **Notifications are being delivered to properties again**
- We have strict protocols in place to protect the safety of our construction workforce and the community, including:
  - enhanced industrial cleaning arrangements
  - provision of personal protective equipment
  - measures to reduce staff contact to reduce contact between the workforce
  - RIA is running two pre-starts between 6am and 7am to ensure social distancing.





# PROGRAM

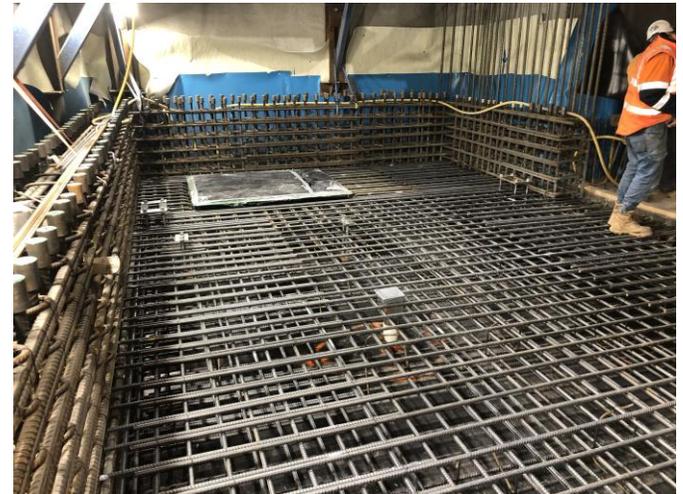
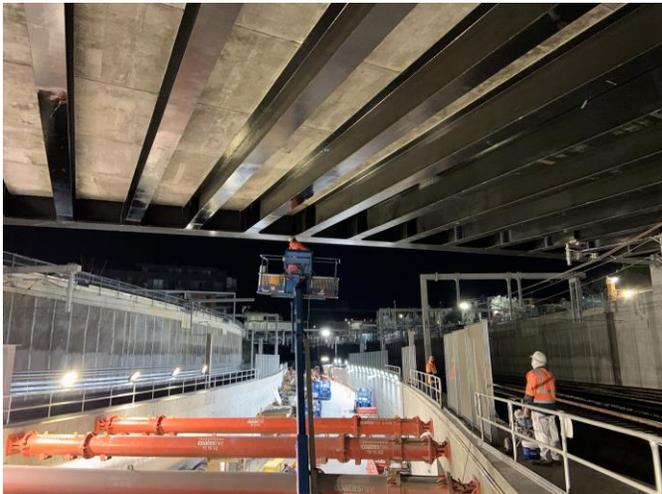
# CONSTRUCTION LOOKAHEAD FOR 2020-2021



 Around the clock Monday to Friday and from 7am to 3pm on Saturday

 24/7

# CONSTRUCTION PROGRESS – RIA



# PROGRESS UPDATE – CYP

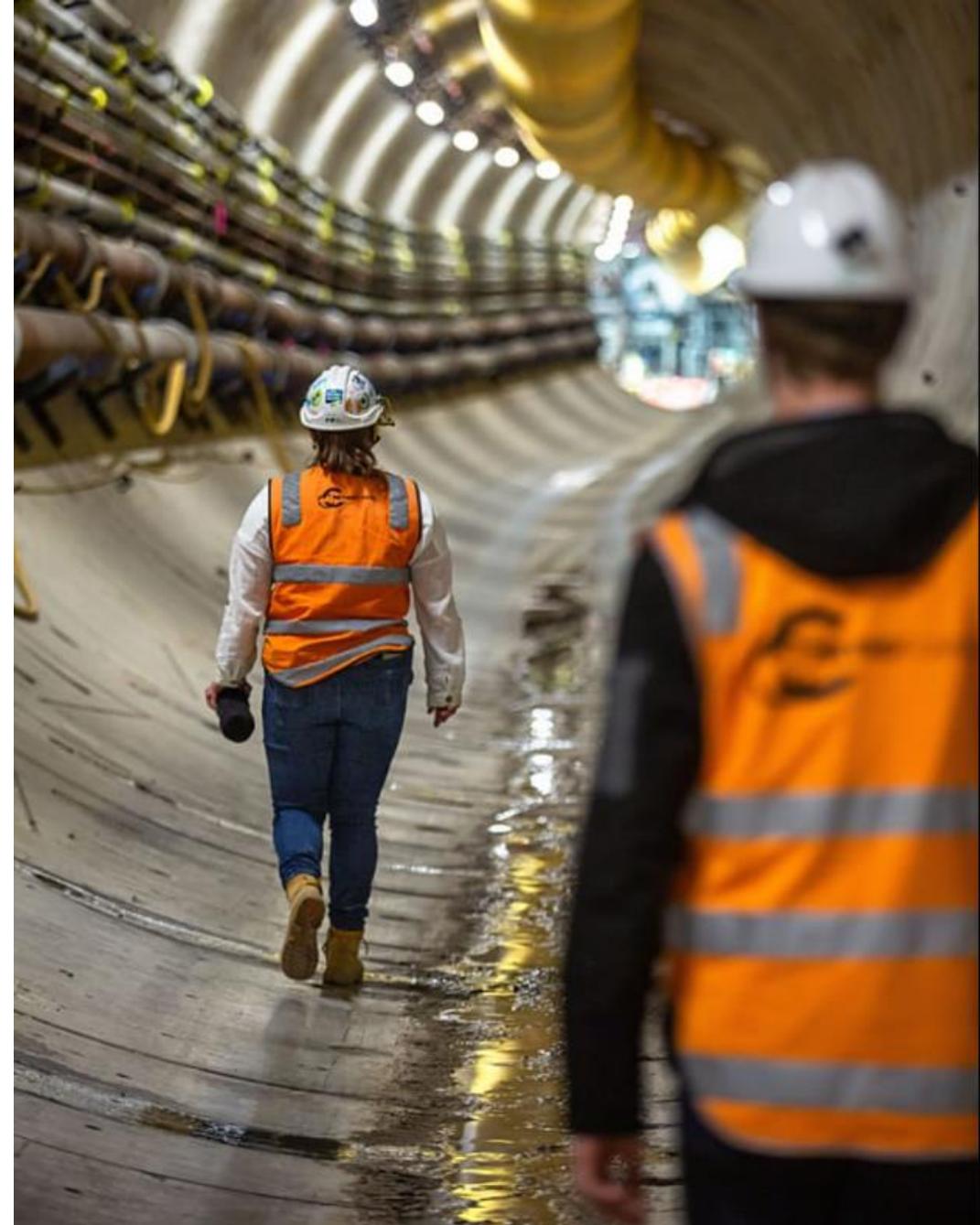




# TUNNELLING UPDATE

# TUNNELLING UPDATE

- In an exciting milestone for the Project, tunnelling between Domain and South Yarra is now complete
- TBM Millie completed her section of eastbound Metro Tunnel in mid-September
- TBM Alice completed her section of westbound tunnel in early October
- Over approximately six months the two TBMs built 3.4km of tunnel



*Inside the completed westbound tunnel*

# TBM MILLIE BREAKTHROUGH



# TBM ALICE BREAKTHROUGH





**TBM Breakthrough  
South  
October**





# TBM RETRIEVAL UPDATE

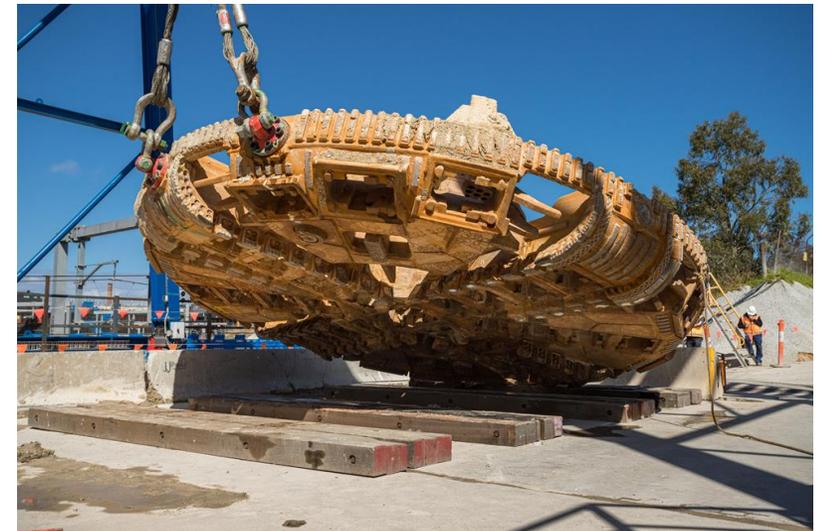
# TBM RETRIEVAL UPDATE

- 24/7 works are underway to disassemble both TBMs inside the retrieval shaft
- So far, 11/20 oversized TBM parts have been extracted and trucked back to Domain overnight
- This includes 10 parts from TBM Millie. The remaining parts will be pulled back through the completed tunnel
- So far, only the cutterhead from TBM Alice has been transported back to Domain



*TBM Alice (left) & parts of TBM Millie (right) inside the retrieval shaft*

# TBM MILLIE'S CUTTERHEAD LIFT



# TBM RETRIEVAL UPCOMING WORKS

- Oversized TBM deliveries will be complete in early November
- Temporary parking restrictions on Osborne Street and Toorak Road will then no longer be required
- 24/7 works will continue inside the retrieval shaft
- Later this week, the team will begin pulling the gantry pieces back through the completed eastbound tunnel
- In November, the gantry crane will be used to pick up and turn Alice's gantry pieces before they are pushed back to Domain via the eastbound tunnel

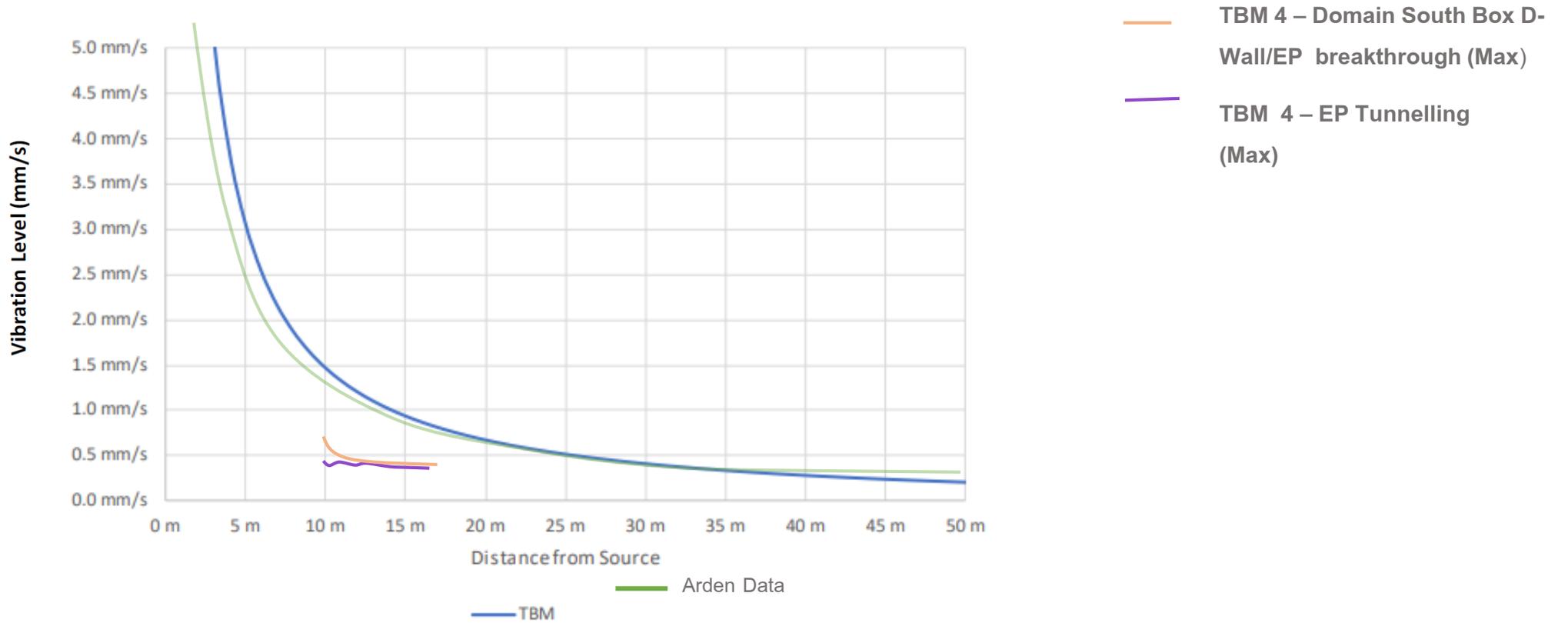


*Millie's gantry pieces inside the eastbound tunnel*



# TUNNELLING NOISE AND VIBRATION

# TBM MONITORING NV8 – EASTERN PORTAL



# NOISE MODELLING – TBM ASSEMBLY

Receiver	Modelled noise level dB LAeq (1 hour)		Measured noise level dB LAeq (1 hour) MTEM
	TBM Disassembly – Night	TBM Retrieval & Disassembly – Night	
135 Osborne Street	60 dB	65 dB	55 – 58
113 Osborne Street	52 dB	57 dB	44 - 58
32 Arthur Street	47 dB	56 dB	44 - 48

External noise target dB LAeq(1hr)
Acoustic Treatment: 59dB>
Alternative Accommodation: 65dB>

- CYP have been onsite conducting attended and unattended monitoring, as well as reviewing work practices.

# NOISE MODELLING – TBM RETRIEVAL

Receiver	Modelled noise level dB LAeq (1 hour)		Measured noise level dB LAeq (1 hour) MTEM
	TBM Retrieval - Night	TBM Retrieval & Disassembly – Night	
135 Osborne Street	63 dB	65 dB	58 – 64
113 Osborne Street	51 dB	57 dB	61 - 67
32 Arthur Street	52 dB	56 dB	49 - 53

External noise target dB LAeq(1hr)
Acoustic Treatment: 59dB>
Alternative Accommodation: 65dB>

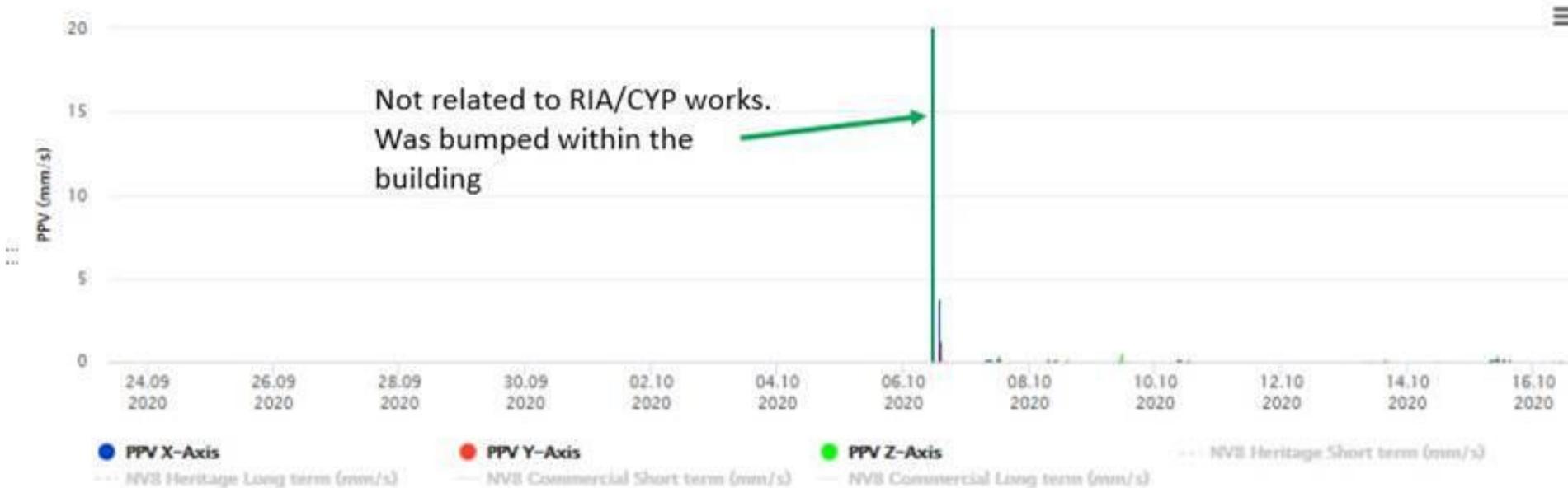
- O/S float movements are louder than general disassembly works, due to increased activity on the surface
- Past halfway mark for O/S floats



# ENVIRONMENTAL MANAGEMENT

# VIBRATION MONITORING

162 Toorak Road, South Yarra: Measured vibration levels



**Location:**

William Street

**Date range:**

17 to 24 June 2020

# NOISE MONITORING

8 William Street, South Yarra: Measured Noise Levels



**Location:**

William Street

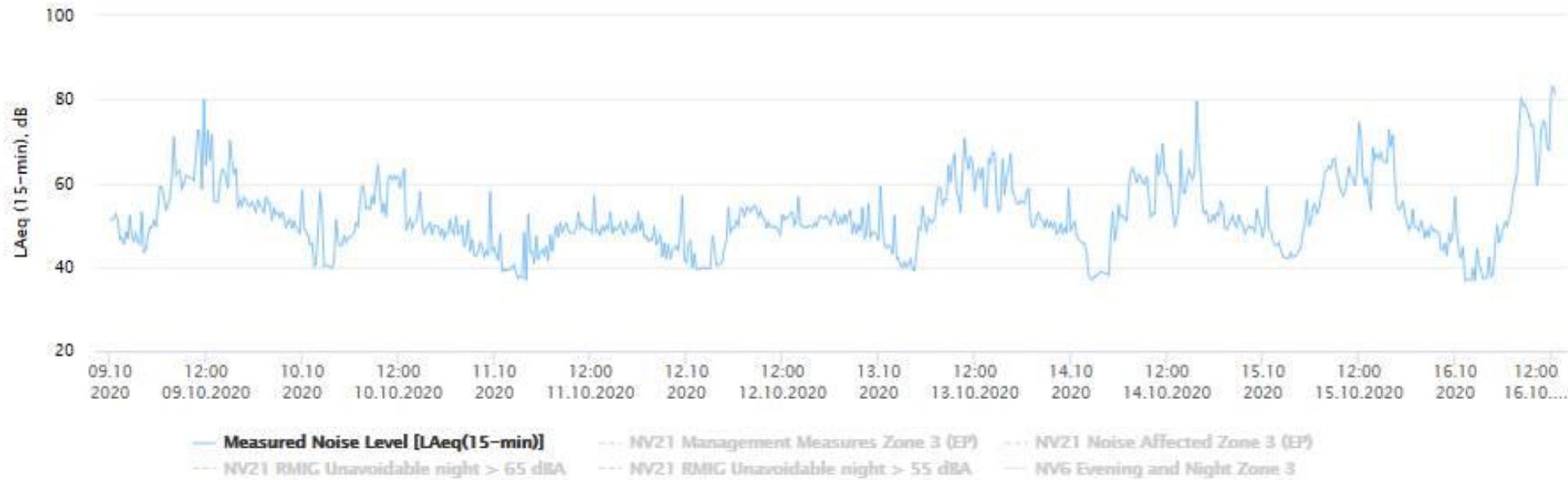
**Date range:**

16 September to

16 October

# NOISE MONITORING

8 William Street, South Yarra: Measured Noise Levels



**Location:**  
William Street

**Date range:**  
9 October to  
16 October



# COMMUNITY & COMMUNICATIONS UPDATE

# COMMUNICATIONS

## Recent and upcoming communications

- The construction update for November is in progress and is expected to be delivered to residents and businesses in late October
- Notifications have been distributed for:
  - upcoming weekend rail occupation works between South Yarra and Windsor stations
  - partial closure and drainage works on Arthur Street
- TBM retrieval progress update notification





# TRAFFIC AND TRANSPORT

# UPCOMING TRAFFIC CHANGES

## Arthur Street

- Partial closure between Chapel Street and 50 Arthur Street to enable drainage works from Tuesday 5 November to Friday 5 December
  - Temporary removal of access to driveways of 50, 52, 58 & 60 Arthur
  - Offset parking available and rubbish collection organised





# SOUTH YARRA SUBSTATION



# BACKGROUND

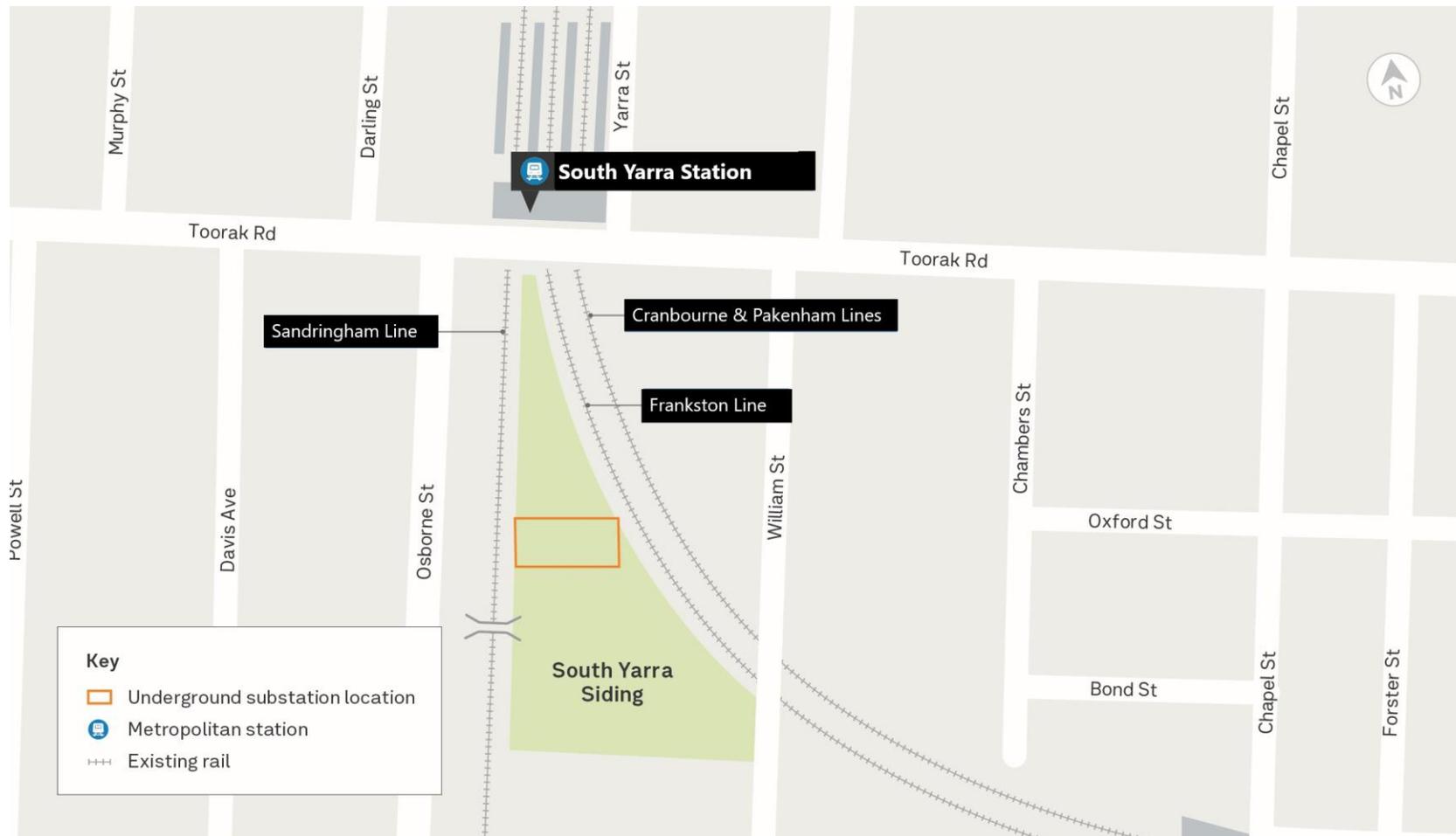
- Power modelling has identified the need for a substation at the eastern portal of the Metro Tunnel to run the HCMT fleet and increase capacity on Melbourne's rail network along the Sunbury, Cranbourne and Pakenham lines
- The planned substation in South Yarra will be located underneath the Siding Reserve
- This location fulfils stringent technical requirements and reflects our strong desire to reduce overall impacts to the South Yarra precinct – including preserving open space and limiting visual and amenity impact on nearby homes
- Once construction is complete, Siding Reserve will be enhanced and upgraded, and returned as a park and open space area for community use



# ABOUT SUBSTATIONS

- A substation is a mostly self-contained, unstaffed building which contains electrical equipment that converts the local power supply into the voltage needed to operate trains, signals and communication equipment across the train network
- Substations are integral to Melbourne's train network: trains need a constant source of power that cannot be met by connecting to the standard street supply
- Our technical analysis and modelling of future power needs has identified a gap in the power supply at South Yarra.
- Currently, the closest substations are located at Cremorne, Balaclava and Armadale

# LOCATION





# SUBSTATION SAFETY

- Substations are common throughout Melbourne
- The South Yarra substation will access the same power that runs through street overhead and underground power lines: electromagnetic emissions from the substation are not expected to be greater than the levels already produced by powerlines in the area
- The South Yarra substation will be designed to ensure it meets all relevant safe operating standards and guidelines which are in place to prevent fire risks



# URBAN DESIGN

- If changes to the Eastern Portal Development Plan are required the project will seek feedback from council, residents and local stakeholders



# WORKS TIMELINE

- Piling and capping works for retaining walls in late 2020
- Soil nailing, shotcreting and drainage works in late 2020
- Demolition of the existing ramp and bulk excavation in early 2021
- Piling and construction of the base slab and retaining walls will take place to mid 2021
- Construction of walls, columns and roof will take place throughout the second half of 2021
- CSR works, overhead line works, high voltage installation, testing and commissioning completed by mid 2022



# COMMUNITY INFORMATION

- Letters to residents to be posted this week
- Two online community information sessions:
  - 6.30pm on Wednesday 28 October
  - 11am on Saturday, 31 October.