



# ARDEN AND PARKVILLE COMMUNITY REFERENCE GROUP

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MEETING 18

9 July 2021



Construction partner:



# AGENDA

1. Introductions and welcome
2. Arden Station Precinct Development Plan amendment
3. Project wide construction update
4. Parkville construction update
5. North Melbourne construction update
6. Stakeholder and communications update
7. General feedback and items for future discussion
8. Meeting close

# ARDEN STATION PRECINCT DEVELOPMENT PLAN AMENDMENT



# AGENDA

- Welcome and introductions
- Statutory requirements
- Existing Arden Station Precinct Development Plan
- Design development
- Summary of design changes
- Next steps

# TUNNELS AND STATIONS SCOPE

CYP Design & Construction Joint Venture is delivering:

- Twin nine kilometre tunnels from South Yarra to Kensington
- Five new underground stations
  - Arden
  - Parkville
  - State Library
  - Town Hall
  - Anzac



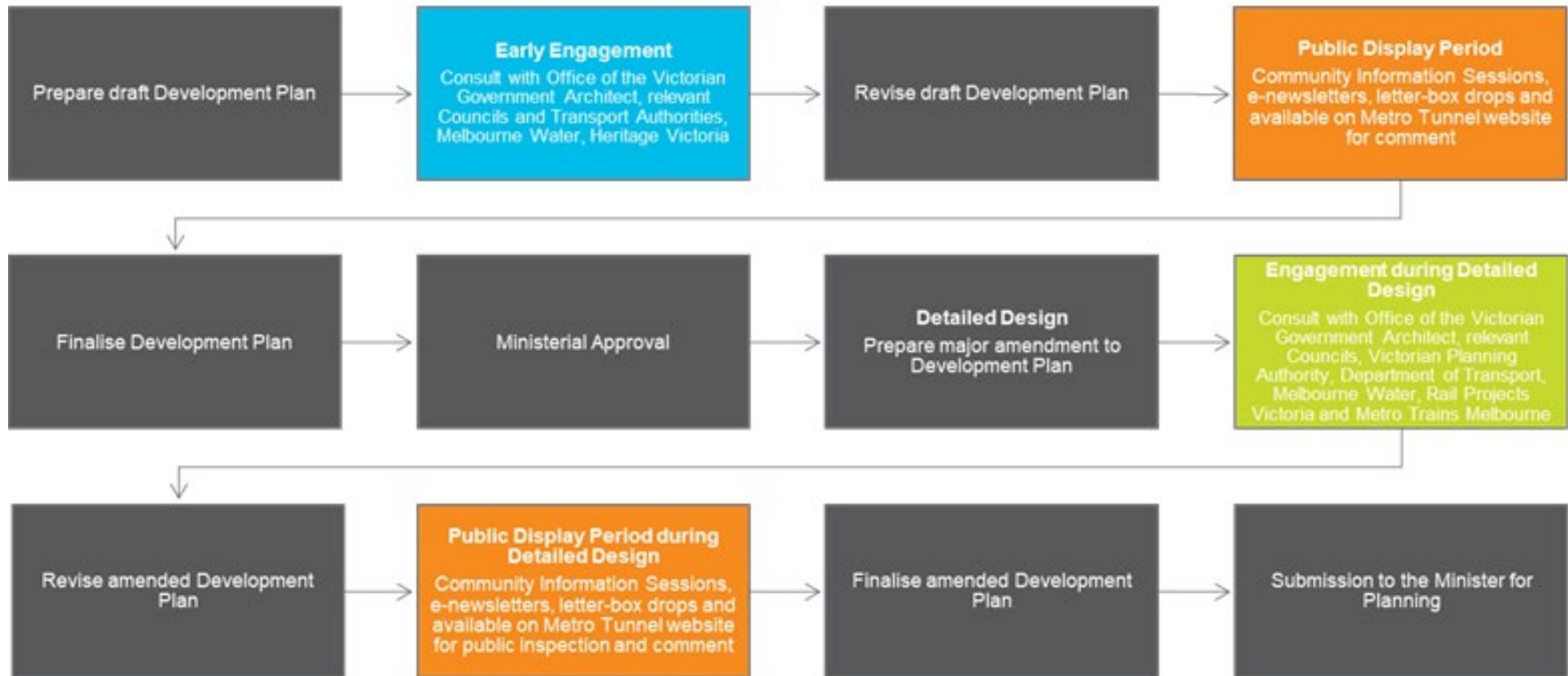
# PROJECT STRUCTURE



# STATUTORY REQUIREMENTS

- Environment Effects Statement – included public exhibition of concept design
- Incorporated Document requires Development Plans to:
  - Address surface works and underground areas from the station entrance to the ticket gate
  - Include site layout, architectural, landscape and public realm plans and elevations including lighting, signage, pedestrian access, bicycle access and other ancillary facilities
  - Demonstrate design is in accordance with Urban Design Strategy and Environmental Performance Requirements
- Existing approved Arden Station Precinct Development Plan
  - Public display of detailed design from Monday 27 November to Friday 15 December 2017
  - Ministerial approval on Thursday 8 March 2018
- Since approval, detailed design development has continued including stakeholder consultation
- Proposing amended Development Plan – seeking comment on changes in August 2021

# AMENDING THE DEVELOPMENT PLAN



# EXISTING ARDEN STATION PRECINCT DEVELOPMENT PLAN



Presenter: Mark Wells

# DESIGN DEVELOPMENT

- Detailed design development has continued, with CYP preparing approximately 450 Design Packages that relate to specialist technical disciplines and geographic areas
- In accordance with the project contract, Design Packages have been reviewed by RPV and the Independent Reviewer, and subject to specified consultation with relevant stakeholders such as:
  - City of Melbourne
  - Office of Victorian Government Architect (OVGA)
  - Department of Transport
  - Melbourne Water
  - Heritage Victoria
  - Victorian Planning Authority



# NEXT STEPS

- Stakeholder meetings July 2021
- Development Plan Review Committee July 2021
- Public display 9-27 August 2021
- Revise and respond to comments September 2021
- Development Plan Review Committee September 2021
- Submission for Ministerial approval October 2021

# CONSTRUCTION UPDATE – PROJECT WIDE



*Presenter: Kim Norton*

# STATE LIBRARY STATION

- La Trobe site
  - Western side of the top deck is complete, B2 is 90% complete with excavation heading to B3. The next major concrete pour is 7 or 8 July
- Little La Trobe site
  - Shaft and adit construction is well underway and ongoing. Hydro demolition and pile coring are currently taking place
- Franklin St East/West site
  - Underground lining and structures continue and works to reconfigure Franklin St West laydown area will take place in July.



*Central cavern*

# TOWN HALL STATION

- Tunnelling and excavation
  - Eastbound platform tunnel top heading excavation advanced to 76m and westbound progressed to 61m
  - Breakthrough from east and westbound into Collins adit in mid-July
  - TBM removal works continue for all four TBMs.
- Flinders Quarter OSD
  - Basement 2 bulk excavation 80% completed, slabs due to be completed by early September
  - Works are underway to construct the roof of the Flinders Link pedestrian connection and then works will recommence to breakthrough to the existing Campbell Arcade station access.
- City Square
  - The second suspended slab was poured in mid-June closely followed by the first lining wall for B4.



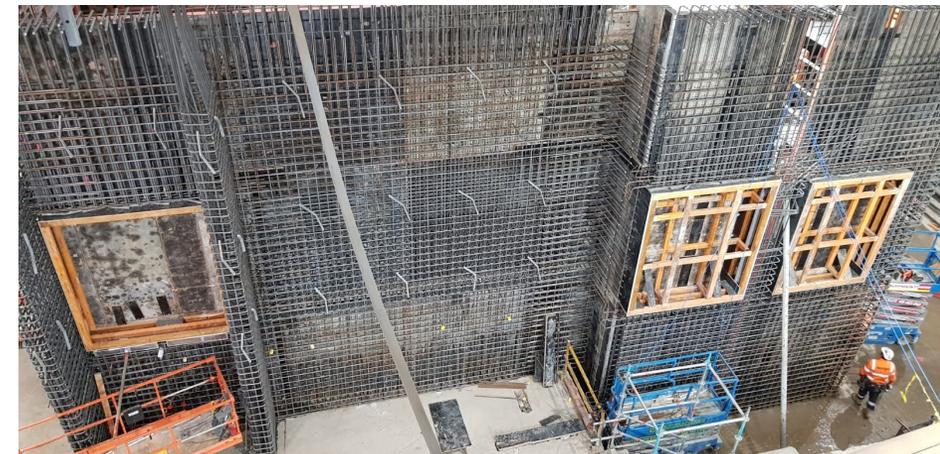
*Central cavern*

# ANZAC STATION

- Both TBM Millie and Alice fully retrieved
- Demolition of the sacrificial tunnel is complete (south box), base slab construction continuing
- At concourse level (south box), construction of back-of-house corridors and rooms continues
- At concourse level (north box), construction of concourse and core walls continues
- Works underway to demolish the first section of D-wall between the tram interchange and the station box.



*Tram interchange D-wall*



*Core wall steelfixing*

# CONSTRUCTION UPDATE – PARKVILLE

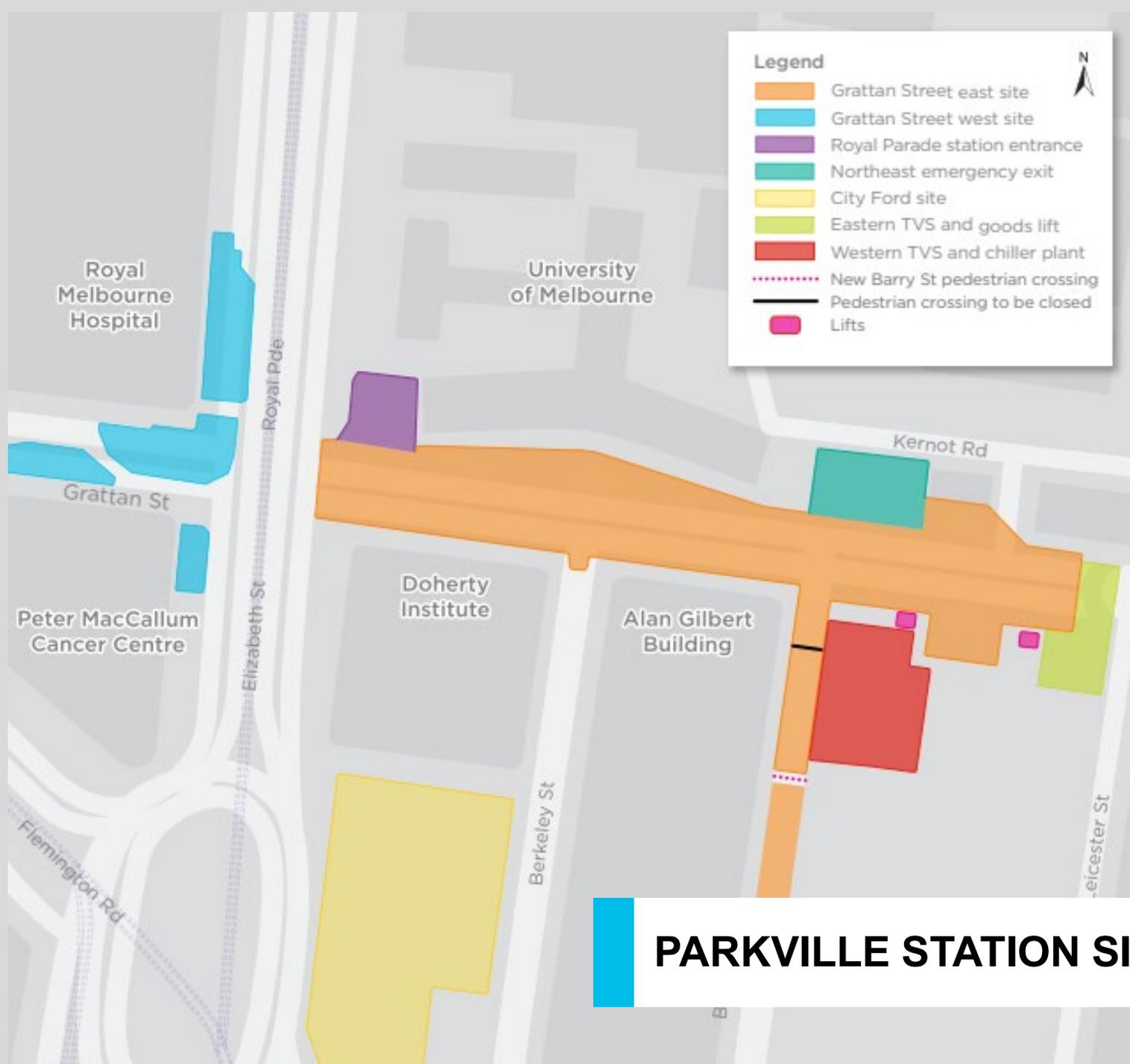


*Presenter: Danielle Smits*

# GRATTAN STREET EAST



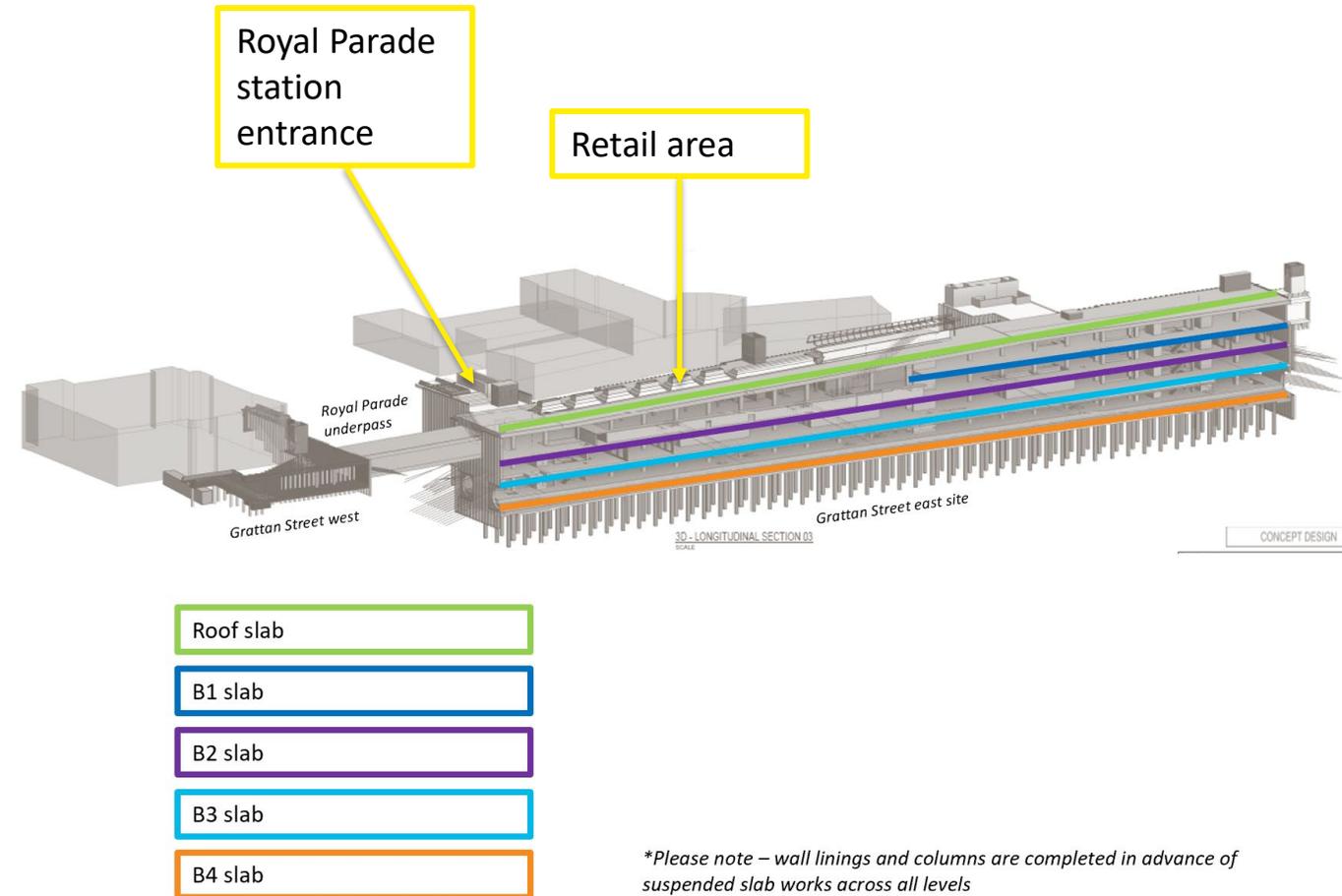
*Presenter: Danielle Smits*



## PARKVILLE STATION SITES

# PERMANENT STRUCTURE WORKS – MAIN BOX

- B1 suspended slab expected to be complete in July
- Five roof slab bays poured to date. Backfill over the completed sections of roof slab is ongoing near Barry Street and temporary haul road installed to enable works at the northeast emergency exit to recommence
- Construction of lining walls and columns are ongoing
- Stage 2 of pile removal between the main station box and Royal Parade entrance/retail area ongoing.



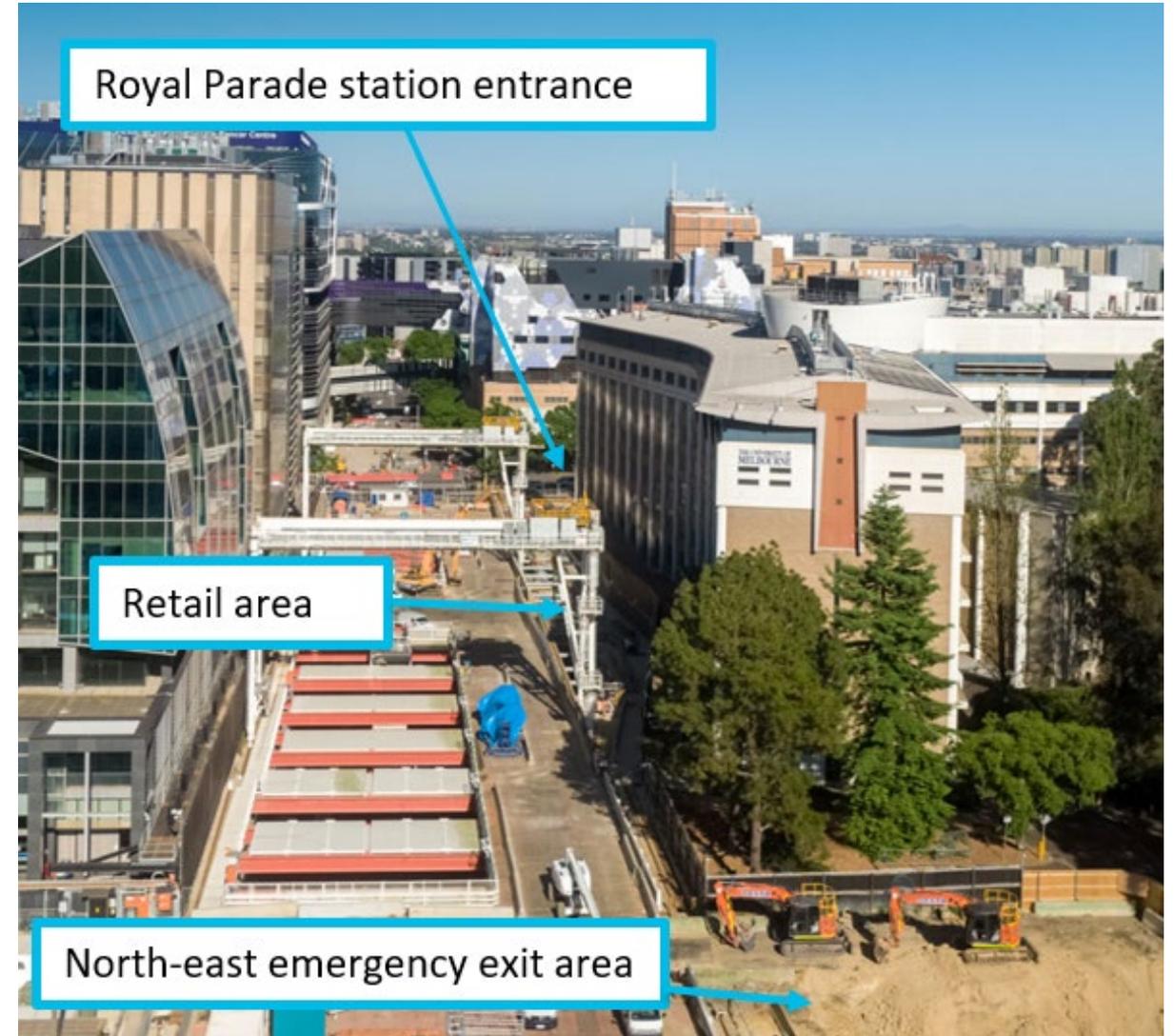
# STATION FIT-OUT WORKS

- Station platform works are ongoing on B4
- Installation of precast over-track exhaust (OTE) units has commenced on B4
- Back of house blockwork installation is ongoing on B3, B2 and B1 levels (fan rooms, electrical switch rooms, staff facilities, etc.)
- Mechanical, electrical, plumbing (MEP) services installation is ongoing.



# SECONDARY BOXES

- Royal Parade station entrance
  - B2 slab complete, lining walls from B2 to roof slab ongoing
- Retail area
  - B2 slab complete, lining walls from B2 to roof slab ongoing
- Northeast emergency exit area
  - Excavation will resume in July, once backfill of adjacent roof slabs sections is complete.



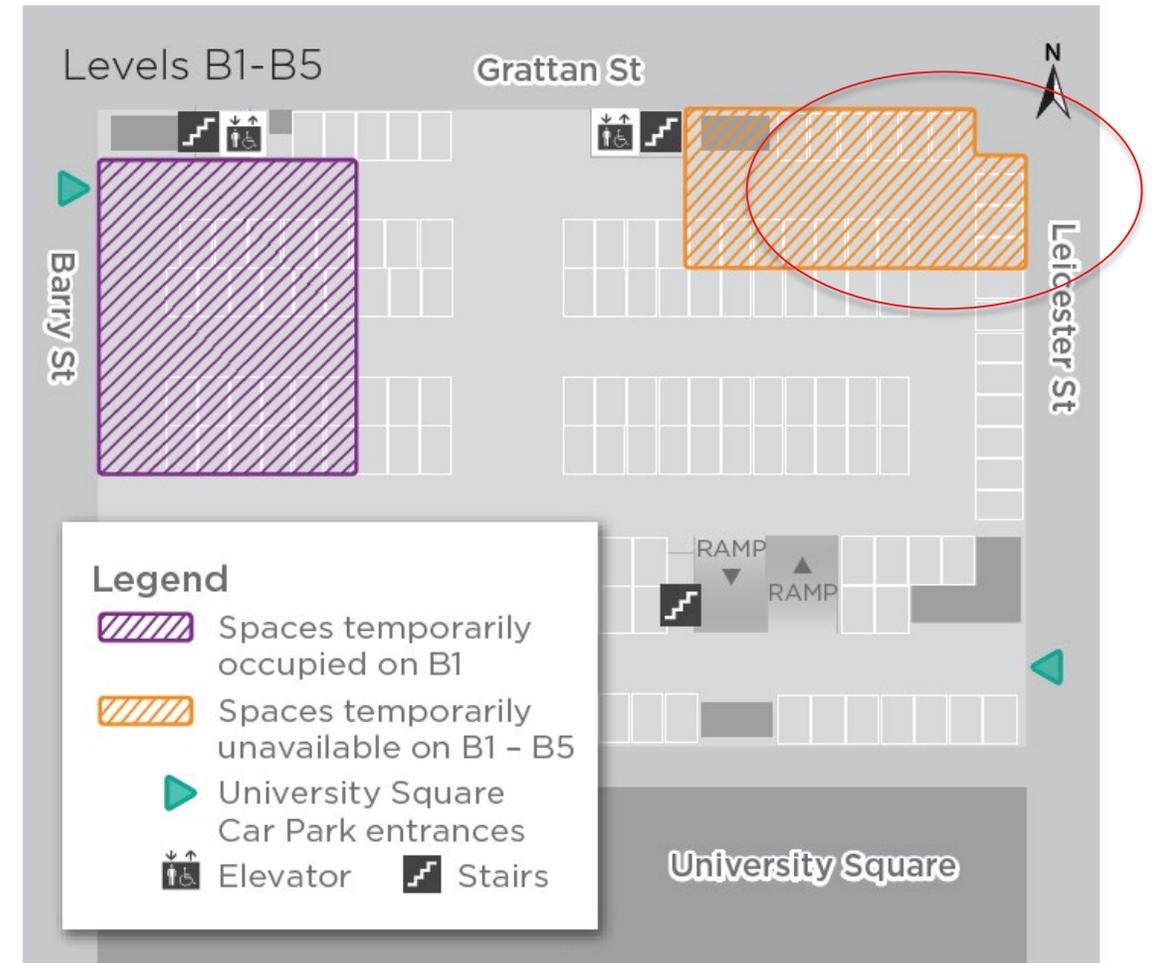
# EAST TUNNEL VENTILATION SHAFT (TVS) & GOODS LIFT – SURFACE WORKS

- Excavation for the east TVS is complete
- Works now include installing waterproofing membrane, formwork and reinforcement, and pouring concrete to form the base slab and lining wall within the Grattan Street east site
- Upcoming works involve carbon fibre strengthening of the existing car park slab
- Excavation of the goods lift will commence in late 2021 following legacy service works. Permanent structure works will take place once excavation is complete
- Works are expected to continue until late 2022.



# EAST TVS WORKS – UNIVERSITY SQUARE CAR PARK

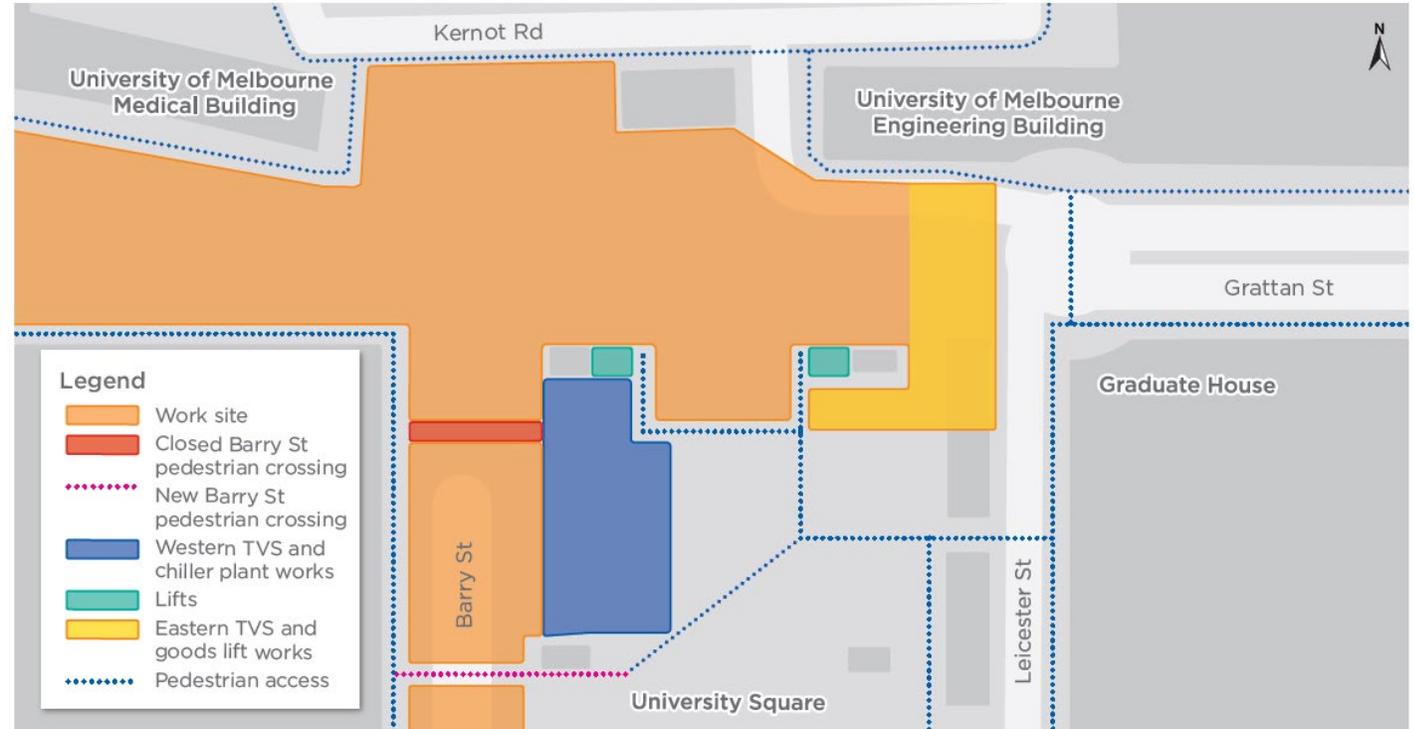
- Site establishment was completed in June (hoarding installation, service relocation)
- Removal of part of the car park structure on levels B5, B3, B3 and B2 is complete. Similar works will be completed on B1 in August
- Upcoming works involve FRP to construct the pad footing and blade column
- Access to University Square Car Park lifts, entrances and emergency exits is maintained.



Indicative only

# WEST TVS & CHILLER PLANT – SURFACE WORKS

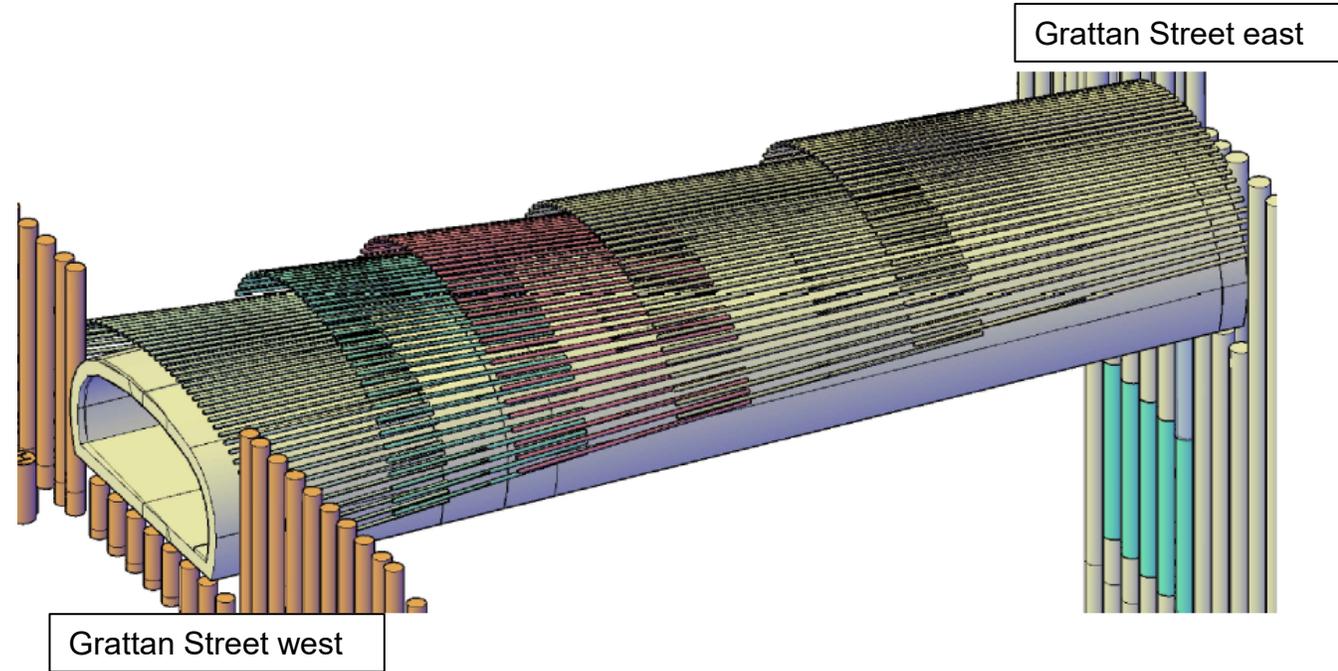
- Site establishment works are ongoing, including relocation of amenities within the Barry Street site and construction of a piling pad
- The Barry Street pedestrian crossing has been relocated 50 metres south
- Preparatory works will involve piling pad construction, saw cutting and non-destructive digging
- Piling will occur in mid-July and will take around one week to complete
- Works will continue until early 2022.



Indicative only

# ROYAL PARADE PEDESTRIAN UNDERPASS

- Preparatory works will commence in late August and involves mobilisation of the roadheader, delivery of materials and supporting equipment
- Construction of the Royal Parade underpass is anticipated to commence in September
- Works will be staged from the Grattan Street east site to Grattan Street west from the B2 slab
- Excavation will continue until early 2022, followed by permanent structure works.





## ROADHEADER EXCAVATION (CBD)

Presenter: Danielle Smits

# TRAFFIC CHANGES

## Royal Parade

- The Royal Parade southbound service lane, adjacent to the Grattan Street east site, will be closed from Tuesday 27 July 2021 for around three weeks to facilitate construction of the Royal Parade station entrance. During this time, a mobile crane will be set up on the Royal Parade footpath
- Traffic and cyclists will be directed into the southbound centre lane from just north of the worksite. Pedestrians will be diverted around the work area into a dedicated walkway
- Access to the Doherty Institute will be maintained via U-turn, just north of the Haymarket roundabout
- Access to University of Melbourne Gate 11 and the Florey Institute will be maintained under traffic control.

## Berkeley Street

- A crane will be located on Berkeley Street, just outside the worksite, to assist with deck removal for from mid-July
  - A minor pedestrian diversion will be in place.



# SIX MONTH PROGRAM

Works	Jul	Aug	Sep	Oct	Nov	Dec
Station box permanent structure works						
Station box fit out						
Royal Parade station entrance (permanent structure)						
Retail area (permanent structure)						
North-east emergency exit area (excavation)						
Staged pile removal (retail/Royal Pde entrance/main box)						
TVS east (car park and FRP lining works)						
Goods lift (service relocation/excavation)						
Chiller plant (strengthening works)						
TVS west (piling and excavation)						
Royal Parade pedestrian underpass (mobilisation/excavation)						

*Indicative only*



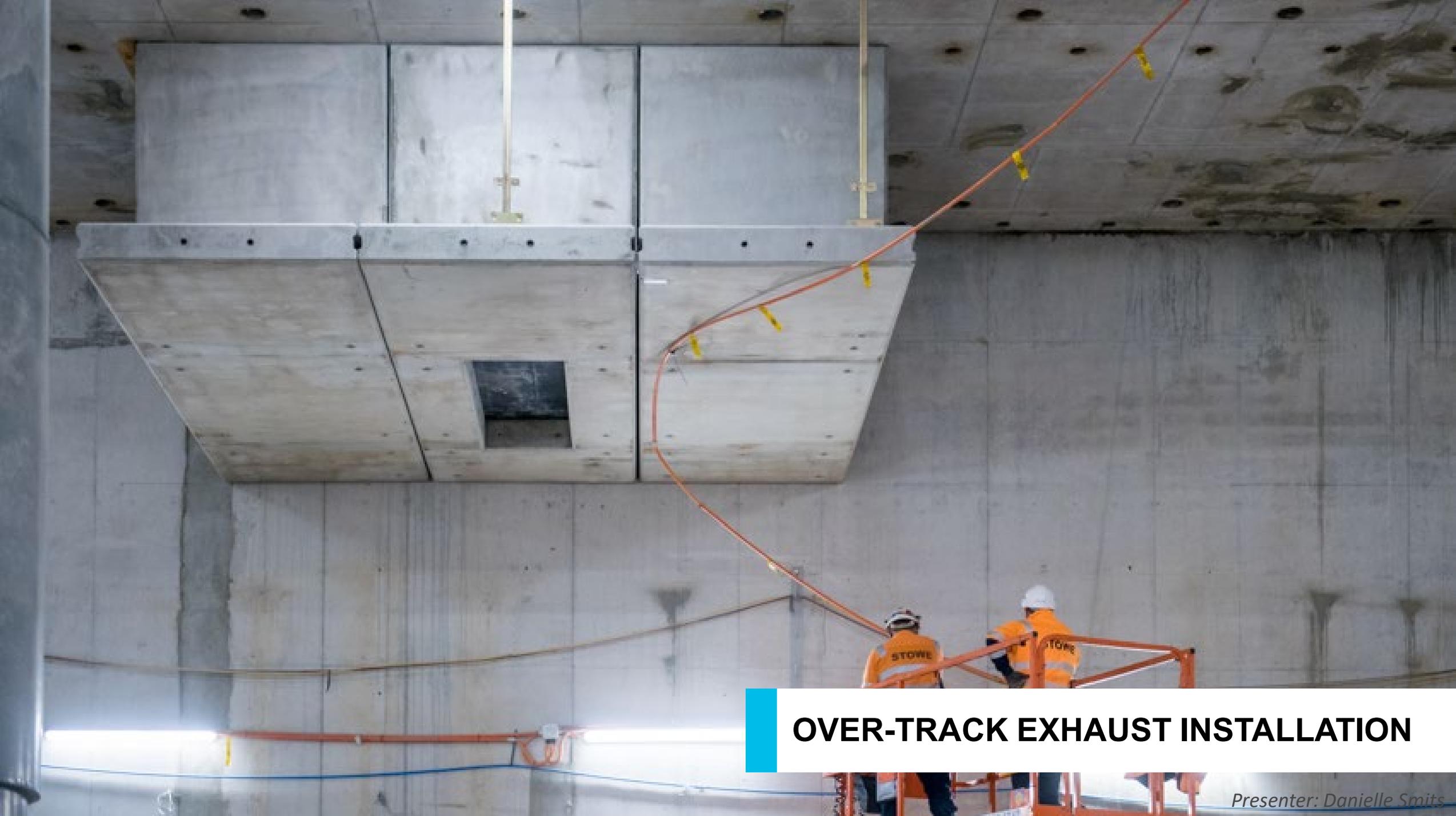
*Presenter: Danielle Smits*



THE UNIVERSITY OF  
MELBOURNE

## GRATTAN STREET EAST ROOF SLAB

*Presenter: Danielle Smits*



## OVER-TRACK EXHAUST INSTALLATION

*Presenter: Danielle Smits*

# GRATTAN STREET WEST



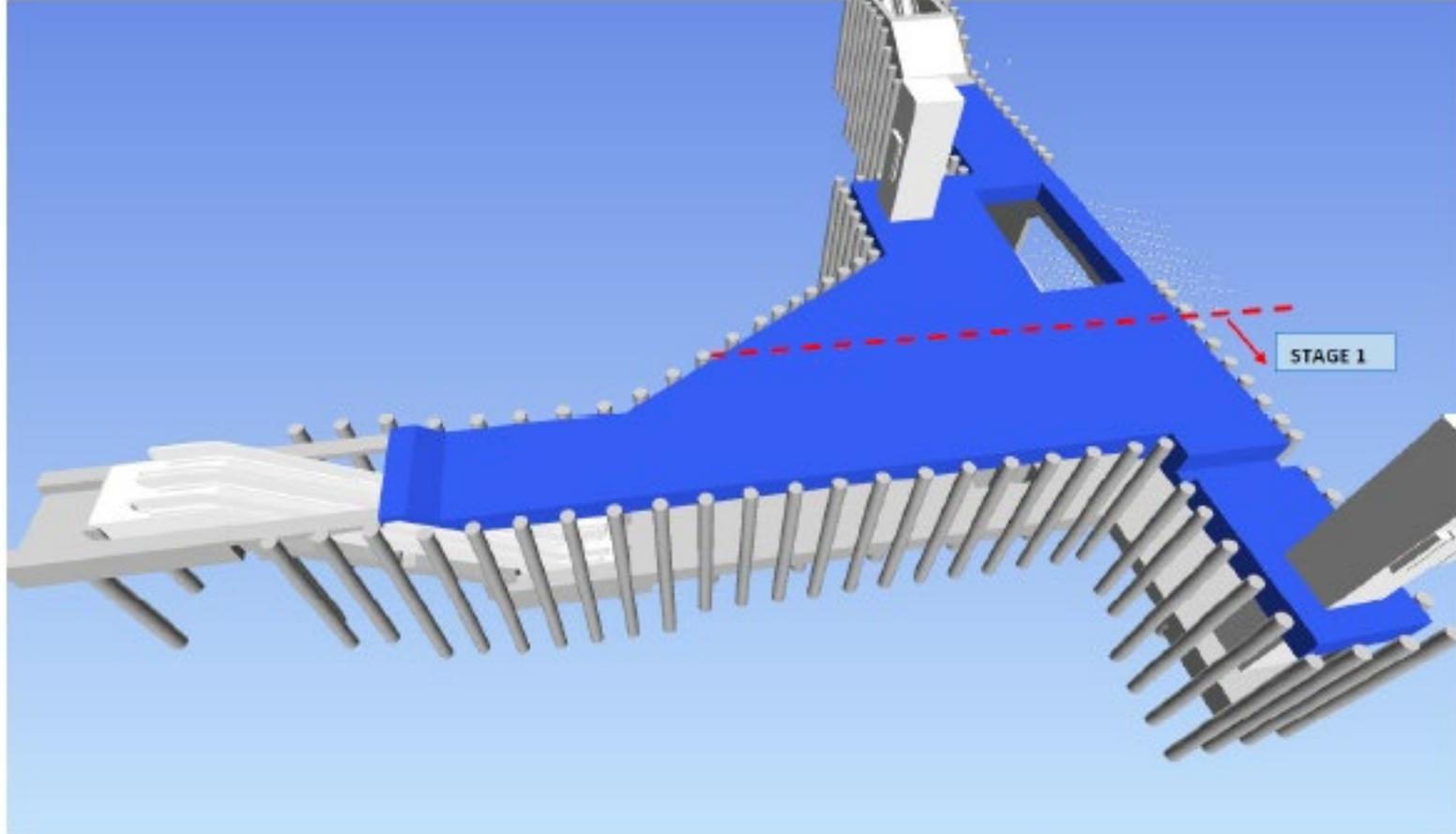
*Presenter: Danielle Smits*

# STAGE 2 NORTH ENTRANCE WORKS

- Excavation to the underside of the roof slab was completed in early June
- Permanent structure works (waterproofing and formwork, reinforcement, pour) has commenced
- The roof slab will be poured by mid-July
- Excavation will recommence through a void in the roof slab from mid-July.



# GRATTAN STREET WEST



*Indicative only*



*Presenter: Danielle Smits*

# SIX MONTH PROGRAM

Works	Jul	Aug	Sept	Oct	Nov	Dec
Excavation						
Structure works						

*Indicative only*



*Presenter: Danielle Smits*



## GRATTAN STREET WEST

*Presenter Danielle Smits*

# CONSTRUCTION UPDATE – NORTH MELBOURNE



# SERVICES BUILDING CONSTRUCTION

- West building ground level entrance stairs complete
- Core structure with fire egress stairs ongoing
- Ventilation shaft works complete
- Façade panel installation ongoing (43 out of 46 now installed). Remaining 3 panels to be installed once roofing is complete
- Structural steel installation complete
- Roofing installation commenced.



Services building under construction

# STATION ENTRANCE CONSTRUCTION

- First entrance slab pour complete. North slab FRP works commenced
- D-wall trimming ongoing. This will allow for service relocation around the southern end of the station entrance
- 28 brick arch segments have now been cast
- First seven (support) columns installed in early June.
- Temporary falsework to be installed early August. This will support the installation of the arch segments
- First arch segments to be installed in the ground mid-September (subject to program).



**ENTRANCE ARCH SUPPORT COLUMNS**

# BASEMENT INTERNAL STRUCTURE CONSTRUCTION

- West platform construction and over track exhaust (OTE) installation complete
- Second deflection wall complete
- East platform construction and OTE installation has commenced.



## EAST PLATFORM CONSTRUCTION

# LAURENS STREET REALIGNMENT

- Timing of the Laurens Street realignment is under review in light of current CitiPower zone substation decommissioning works
- Realignment likely to occur during July 2021.



*Presenter: Stef Calati*

# RAIL TUNNEL FITOUT (RTF)

- Installation of brackets and cable trays in both east and westbound tunnels between Arden and the Western Portal



Bracket installation in the westbound tunnel



**RTF UPPER GANTRY**

# TUNNEL INTERNAL STRUCTURE

- Pouring of the eastbound tunnel invert between Parkville and Arden currently underway
- Pouring of the westbound tunnel invert between Parkville and Arden to commence in September
- Pouring of the eastbound tunnel invert between State Library Station and Parkville to commence in July.



Tunnel invert works (Parkville to Arden)

# MECHANICAL, ELECTRICAL, PLUMBING (MEP)

- Final design coordination for services building MEP installation complete
- Concourse level survey (east and west box) completed to prepare for services installation
- Installation of hydrant mains and sprinkler ranges (west box) ongoing.
- Installation of mechanical duct work, dampers and chilled and heating hot water pipework (west box) ongoing
- Installation of drainage pipework and water supplies (west box) ongoing
- Installation of cable tray, bracket fixings and ladders (west box) ongoing.



Fire protection services installation

# NORTH MELBOURNE ELECTRICAL SUBSTATION

- Structure and fit out works are ongoing
  - Installation of two sets of 66kV gas insulated switchgear (GIS) bays
- Preparatory works for the under bore of Moonee Ponds Creek are ongoing
  - Access ramp and piling pad construction on west bank complete
  - Construction of the temporary launch shaft on the east bank is complete
  - Construction of the temporary receival shaft on the west bank has commenced
  - Under-creek bore works planned from 14 - 20 July
  - Two trees (west bank) previously identified for removal will be removed in late-July/early August.

# NORTH MELBOURNE ELECTRICAL SUBSTATION – ADDITIONAL SCOPE

- Additional scope on west bank of creek
  - CYP will complete additional works on behalf of CitiPower
  - This will involve the removal of an additional five trees (expected in August).



# NORTH MELBOURNE PROGRAM

Activity	Jul	Aug	Sep	Oct	Nov	Dec
Roof slab construction						
Service works (Laurens Street)						
West (services building) construction – structure only						
East (station entrance) construction						
Brick arch installation						
Over Track Exhaust (OTE) and platform construction						
Vertical transport installation (lifts and escalators)						
Mechanical, electrical, plumbing (MEP) installation						
Rail tunnel fitout (brackets, cable trays, plumbing)						
Cross passage construction						
Intake substation construction						



Program is indicative and subject to change



Presenter: Stef Calati

# STAKEHOLDER AND COMMUNICATIONS UPDATE



# ENGAGEMENT AND COMMUNICATIONS UPDATE

## Notifications and communications

- North Melbourne – June/July Construction Update (10 June)
- Parkville – June/July Construction Update (1 June)
- Parkville – weekly update to key stakeholders (ongoing).

## Door knocks, meetings, briefings and events

- North Melbourne – fortnightly meetings with City of Melbourne (26 May, 9 June, 23 June, 7 July)
- North Melbourne – Mauri ANZ (George Weston Foods) monthly briefing (10 June)
- North Melbourne – CitiPower Laurens Street works progress meetings (24 June, 1 July, 8 July)
- North Melbourne – Arden Station Precinct Development Plan amendment briefings with Nick Theodossi Prestige Cars, Mauri ANZ, North Melbourne Football Club, CHEP, North Melbourne Residents Association, North and West Melbourne Association, Naturelinks, Bicycle Network and Irwin Stockfeeds
- North Melbourne – Meeting with Friends of Moonee Ponds Creek, City of Melbourne and Melbourne Water regarding additional CitiPower works adjacent to the North Melbourne electrical substation (17 June)
- Parkville – fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, City of Melbourne; monthly meeting with Graduate House
- Parkville – business engagement (monthly check-ins).

# ENGAGEMENT AND COMMUNICATIONS UPDATE

## NORTH MELBOURNE AND PARKVILLE

### Community issues and enquiries or key stakeholder engagement

- Parkville – Grattan Street west station entrance construction
- Parkville – Grattan Street east – goods lift, tunnel ventilation shaft and chiller plant works.

### Upcoming engagement

- North Melbourne – Laurens Street realignment
- North Melbourne – Arden Station Precinct Development Plan amendment.



*Presenters: Kim Norton & Danielle Smits*

# QUESTIONS?



*Presenter: Chris Lovell*

# OTHER BUSINESS

- Next meeting: Friday 10 September 2021
- Kim Norton to move into role of Media, Communications and Engagement Manager (CYP). Rob Mair and Jordan Turner to take on management of all West Precinct communications and engagement.



*Presenter: Chris Lovell*



**Western Portal**

South Kensington

**Arden**

**Parkville**

North Melbourne

**State Library**

Melbourne Central

Parliament

Flagstaff

**Town Hall**

Southern Cross

Flinders Street

Richmond

**Anzac**

South Yarra

**Eastern Portal**

Sunbury Line

Cranbourne / Pakenham Line