

Arden and Parkville Community Reference Group Meeting 21

Friday 10 December 2021





Agenda



ltem	Торіс	Presenter
1	Welcome and introductions	Chris Lovell
2	Project wide construction update	СҮР
3	Parkville construction update	CYP
4	Parkville chiller plant overview	CYP
5	Arden construction update	CYP
6	Intake Substation works and presentation on landscaping	CYP
7	2021 wrap up – Arden and Parkville	CYP
8	Stakeholder and communications updateParkville Development Plan amendment update	CYP
9	General feedback and items for future discussion	CYP
	Meeting close	Chris Lovell



Construction update – Project wide

Presenter: Danielle Smits

State Library Station



- The structures and lining team recently completed the first concrete pour for the arch of the eastbound rail platform tunnel
- Shaft construction is progressing at the La Trobe Street site as B3 excavation continues. Above ground, steel fixing is now underway for the buildout of the station entrance
- At Little La Trobe Street site, the B4 slab is being constructed, and adit excavation has recommenced
- Internal wall reinforcement and strut removal are taking place within the shafts at the Franklin Street sites.



Concrete arch pour

Town Hall Station



- Concrete pours are underway to form the arches within the central cavern
- Works to install tower crane footings are underway on Swanston Street
- Flinders Quarter excavation works reached over 50% total.

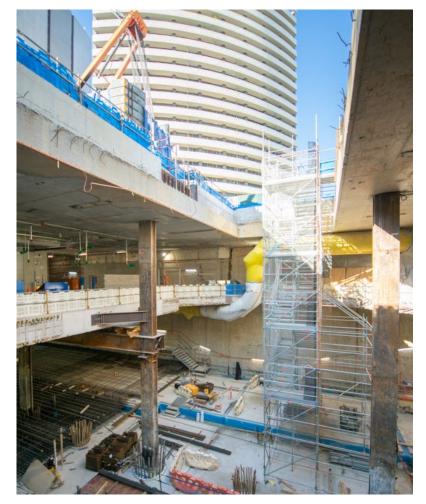


Formwork gantry for the station tunnel lining form

Anzac Station



- Work is continuing on steelfixing for the last concrete pour to construct the station box base slab
- D-wall demolition is nearing completion, connecting the concourse level of the station to two of the three station entrances
- Blockwork walls and door frames continue to be installed at concourse level, alongside early mechanical, electrical and plumbing service installation and rough-in
- At the tram interchange station entrance, works continue to backfill the roof slab. Buildout works for this entrance will commence this month, including precast installations and footings construction.



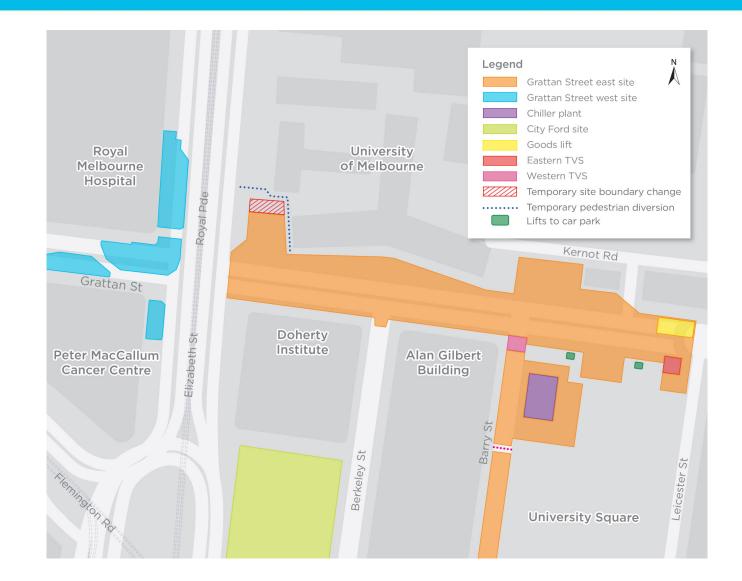
Base slab construction, concourse level and roof slab of station box



Construction update – Parkville

Parkville Precinct





Presenter: Paul Dal Pra



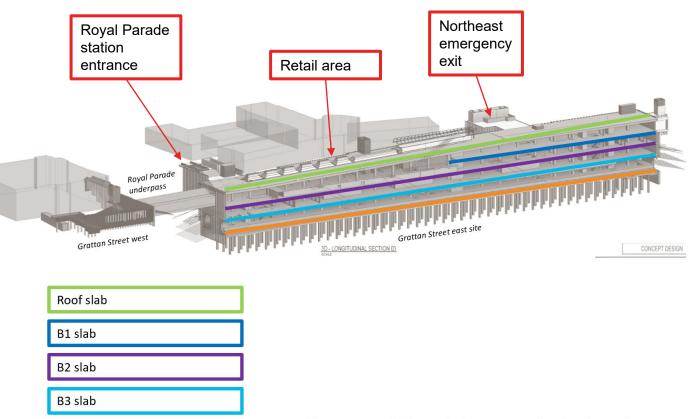
Grattan Street east

Presenter: Paul Dal Pra

Station box permanent structure works



- The roof slab to the main box is expected to be complete by late December
- Royal Parade entrance: Roof slab formwork installation is ongoing
- Retail area: Formwork and reinforcement installation for the final roof pour (finger joint) is ongoing
- Northeast emergency exit: Formwork installation for the lining walls is ongoing.



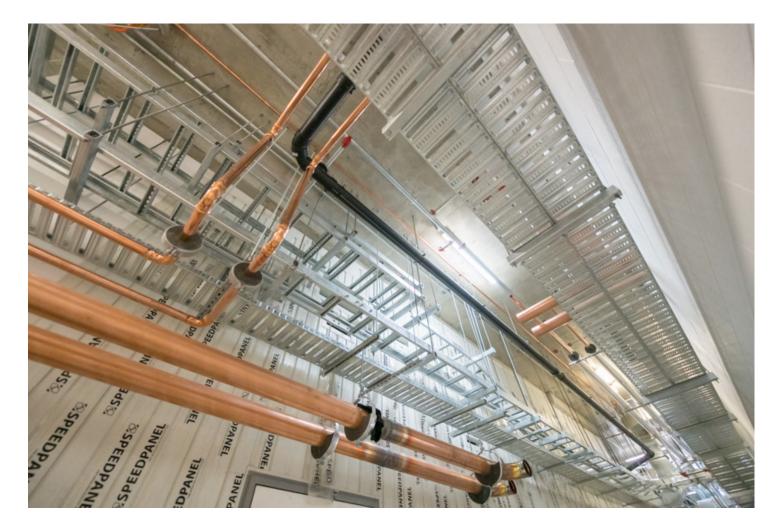
B4 slab

*Please note – wall linings and columns are completed in advance of suspended slab works across all levels

Station fit out works



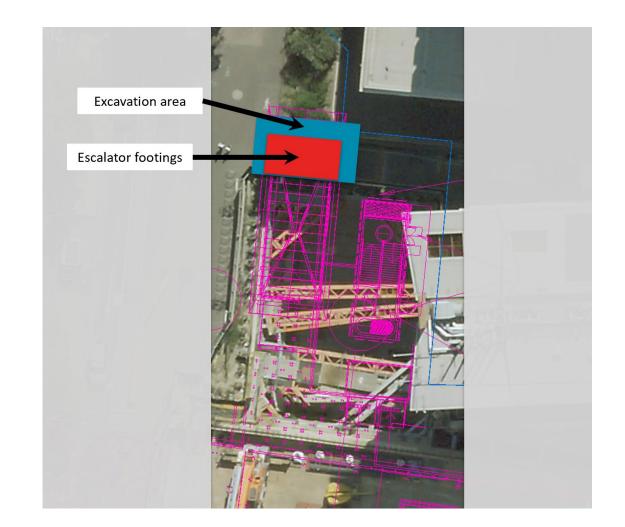
- Installation of blockwork is ongoing on B3, B2 and B1
- Mechanical, electrical and plumbing (MEP) / service installation is ongoing on B4, B3, B2 and B1
- Over-track exhaust (OTE) is complete on both the north and south sides
- Platform construction is ongoing on B4.



Royal Parade entrance Escalator works



- Site boundary change required to facilitate works for the escalator at the Royal Parade entrance
- Pedestrian arrangements are subject to ongoing consultation with the University of Melbourne
- Following escalator footing construction, works in this area include steel installation, escalator installation, legacy utilities and landscaping
- Works are expected to commence from early 2022.



Northeast emergency exit



- Pile removal has been completed to connect this area to the main station box
- Base slab construction is complete
- Permanent structure works, including lining wall construction, is ongoing
- Lining wall reinforcement works are complete.





Permanent structure works





Internal wall construction





Permanent structure works





Platform and OTE – B4 level





Tunnel and OTE – B4 level



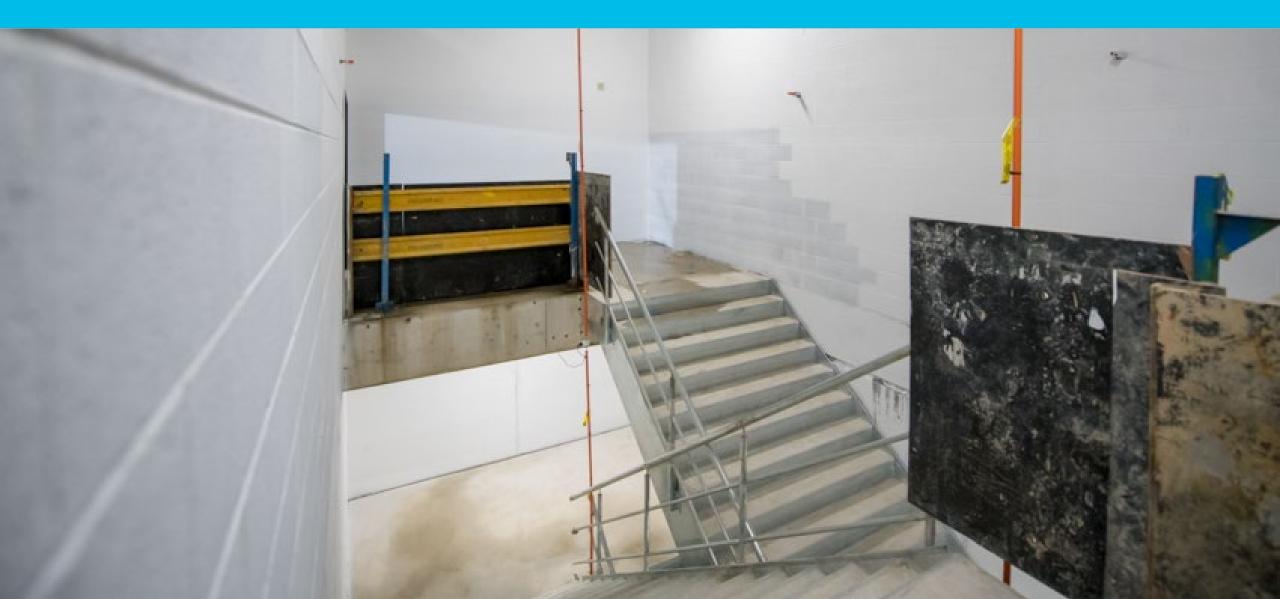


Platform construction – B4 level





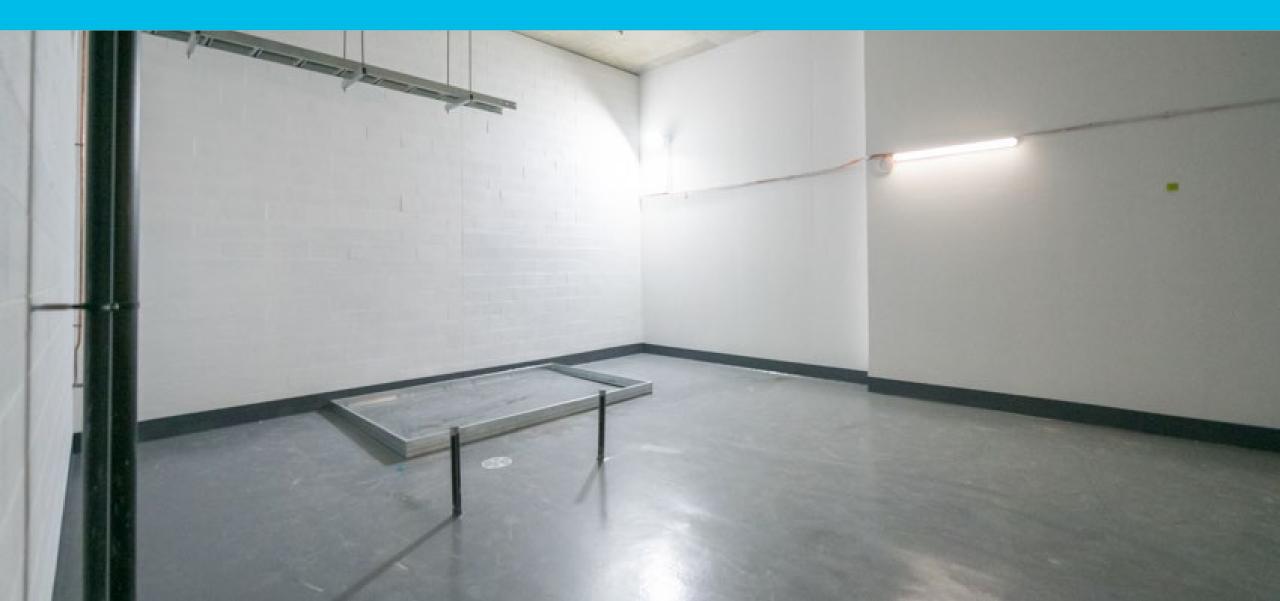










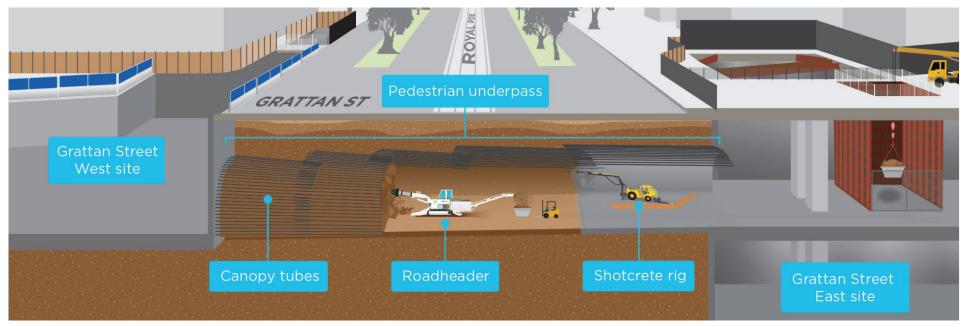








- Three arrays of canopy tubes have been installed
- Excavation using a roadheader is ongoing.



Artist's impression. Not to scale.

Royal Parade underpass Roadheader mobilisation





Royal Parade underpass Canopy tube installation





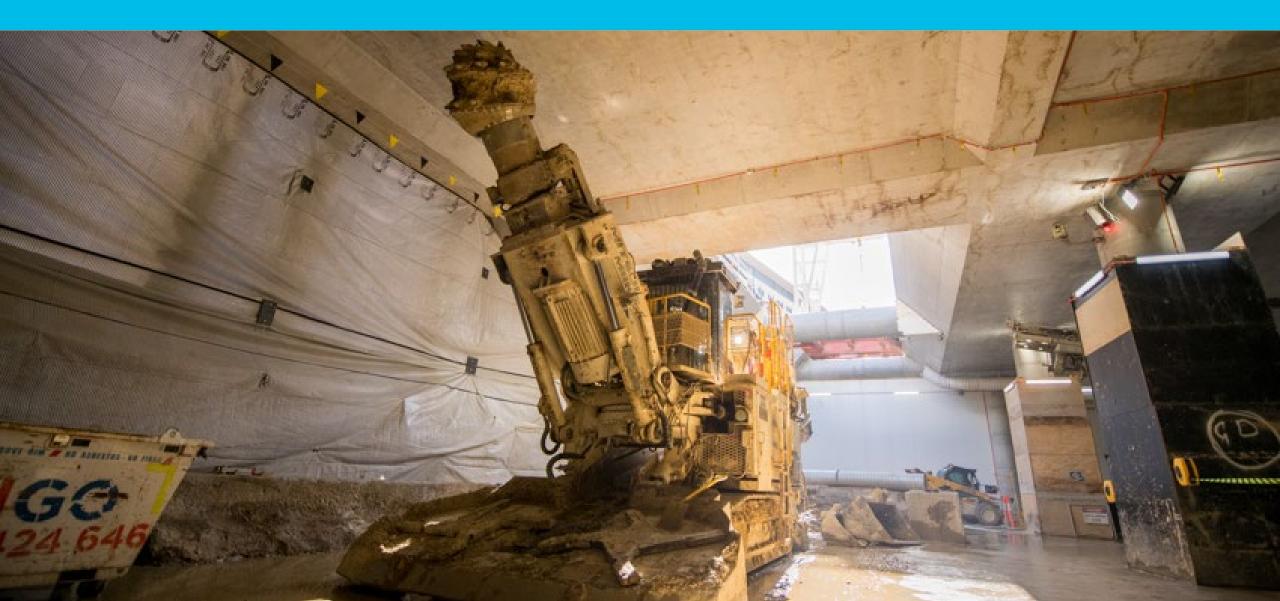
Royal Parade underpass





Roadheader





East tunnel ventilation shaft



University Square Car Park works:

- Construction of the blade column is complete
- Works to modify part of the University Square Car Park structure on levels B1, B5, and the plaza have commenced and are ongoing.

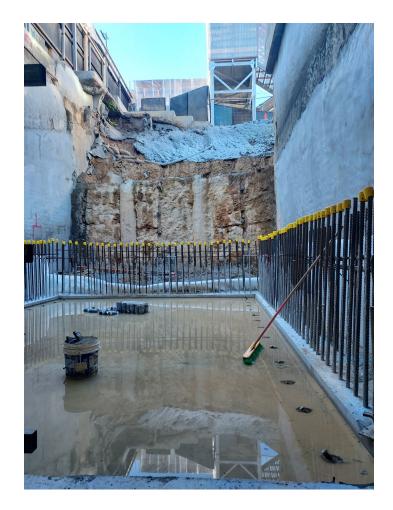


West tunnel ventilation shaft and chiller plant



West TVS

- Base slab concrete pour has been completed
- Lining wall works are ongoing.



Chiller plant

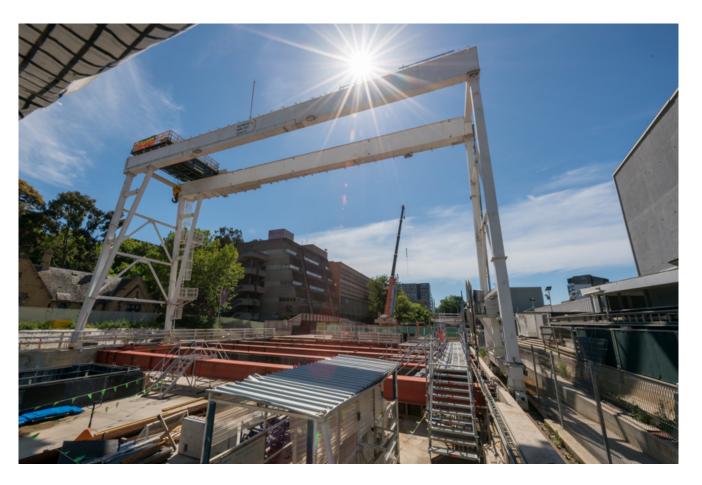
- Excavation activities have been completed
- Strengthening works at surface level are expected to commence in mid-December.



Gantry crane removal



- The first of the three gantry cranes will be removed from early 2022
- For each crane this involves:
 - Disconnecting motors and electrics
 - Attaching temporary braces to the gantry crane legs
 - Using a large mobile crane to lower pieces of the crane to ground level
 - Removing gantry crane legs and temporary braces (mobile crane)
 - Additional dismantling at ground level
 - Removal from site (some oversized loads required at night).



Grattan Street east



Activity	Dec	Jan	Feb	Mar	Apr	Мау
Station box permanent structure works						
Station box fit out						
Royal Parade entrance						
Retail area						
Northeast emergency exit						
Staged pile removal						
East TVS						
West TVS						
Chiller plant						
Goods lift						
Royal Parade underpass						
Gantry crane removal						
Staged capping beam removal						



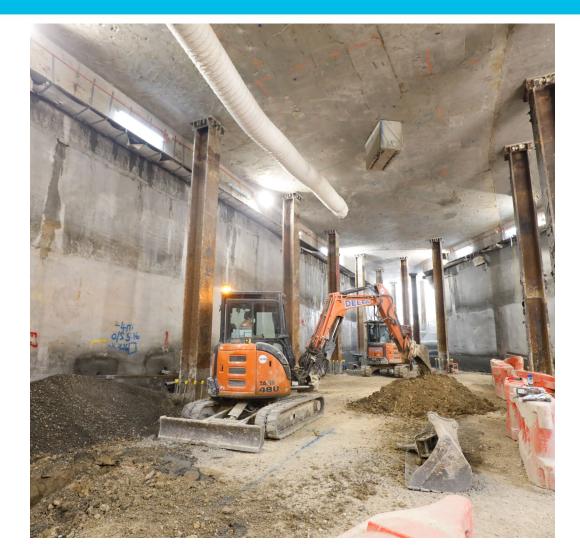
Grattan Street west

Presenter: Paul Dal Pra

Station entrance construction



- Stage 2 bulk excavation is complete
- Blinding works are complete
- Permanent structure works are ongoing until early 2022, including base slab and lining wall construction. These works involve waterproofing, steel fixing, installation of formwork, concrete pours and associated works
- The base slab pour is expected to be complete by late December
- Following permanent structure works, services installation, including mechanical, electrical and plumbing and fit out works will commence
- Future works at surface level will include pile top removal, preparation for structures (minor excavation), structure works and backfilling activities.



Grattan Street west Excavation – October 2021





Grattan Street west Excavation – October 2021







Six month program

Activity	Dec	Jan	Feb	Mar	Apr	May
Structure works						
Service installation and fit out works						
Pile top removal						
Backfill						



Parkville chiller plant overview

Presenter: Paul Dal Pra

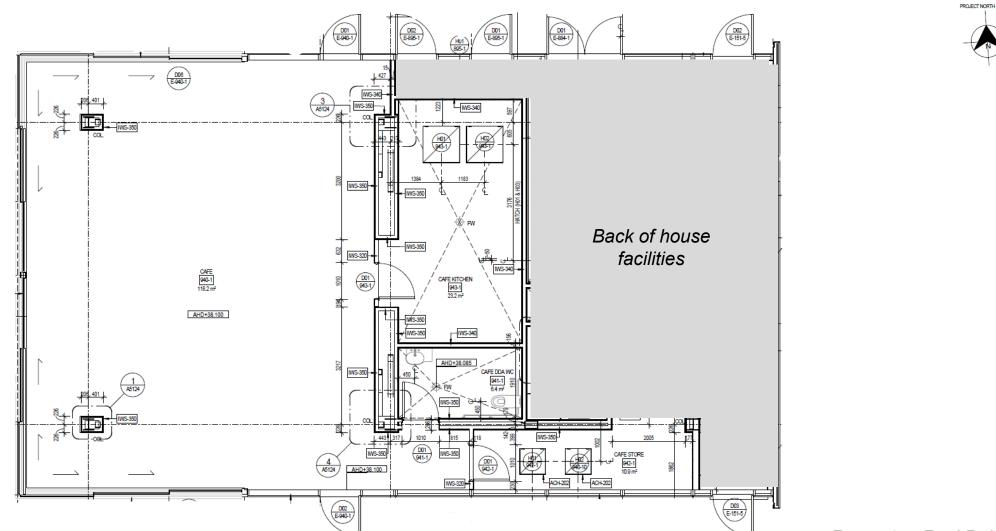






Chiller plant Indicative floor plan





Presenter: Paul Dal Pra



Construction update – North Melbourne

Presenter: Stef Calati

Station construction



- Blockwork wall construction is ongoing, and painting continuing in services building
- The blockwork walls at mezzanine and concourse level are complete
- Mechanical, Electrical and Plumbing rough in and fit out underway
- Internal wall linings for comms equipment room (CER) being installed.



Blockwork installation under gantry shed complete

Station entrance construction



- Station entrance arches are now completed
- Arch segments have been installed and grouted into place
- Work is now underway to remove the falsework support structures from beneath.



Support structure for arches being removed

Station entrance construction

Arch installation







Next steps – Arden Station entrance (2022)



- Falsework removal to finish early new year
- Structural steel will continue
- Façade panels with brick and porcelain will be installed to enclose the arches
- Terrace construction and ground floor entrance slab will commence.

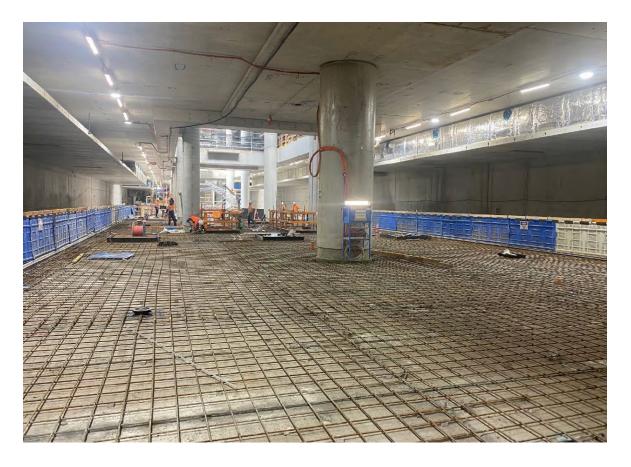


Works at the Arden Station entrance

Basement internal structure construction



- Over track exhaust (OTE) precast installation is complete
- Platform construction is almost complete with the last topping slabs now being formed and poured
- Blockwork on the western end of the platform continues.



Platform topping slab construction

Station construction



- The first staircase from platform level to concourse has been constructed
- The first two escalators have been installed
- There will be seven escalators in total at Arden Station



Stairs and escalators installed

Mechanical, Electrical, Plumbing (MEP)



- Sprinkler and hydrant bracket and pipework installation
- Gaseous suppression system pipework installation
- Mechanical pipework and ductwork installation
- Electrical cable tray and cable installation
- Hydraulic pipework installation
- Installation of large Tunnel Ventilation Fans, dampers and associated steelwork
- Ongoing installation of fire detection systems.



Mechanical, electrical and plumbing rough-in – service building

Rail tunnel fit out works



- Bracket installation is ongoing. The fixing points are formed in the precast panels
- Early stages of installation of emergency walkways is ongoing.





Activity	Dec	Jan	Feb	Mar	Apr	Мау
Utility investigation works						
Over track exhaust (OTE) and platform construction						
Services building construction						
Station entrance construction						
Mechanical, electrical and plumbing installation						
North Melbourne electrical substation construction						

North Melbourne electrical substation



- Substation cladding and fit out/testing ongoing
- The two undercreek bores are now complete, with a third for Citipower underway
- Installation and testing of electrical systems and switch rooms
- Fire water service connection works ongoing
- Completion and commissioning expected by end of March 2022



Substation construction progressing



Intake Substation:

Revegetation and landscaping

Tree species



Aca.p	Acacia pycnantha	Golden Wattle	
All.v	Allocasuarina verticillata	Drooping Sheoak	
Euc.c	Eucalyptus camaldulensis	River Red Gum	
Mel.e	Melaleuca ericifolia	Barlan / Swamp Paperbark	
Mel.q	Melaleuca quinquenervia	Broad-leaved paperbark	





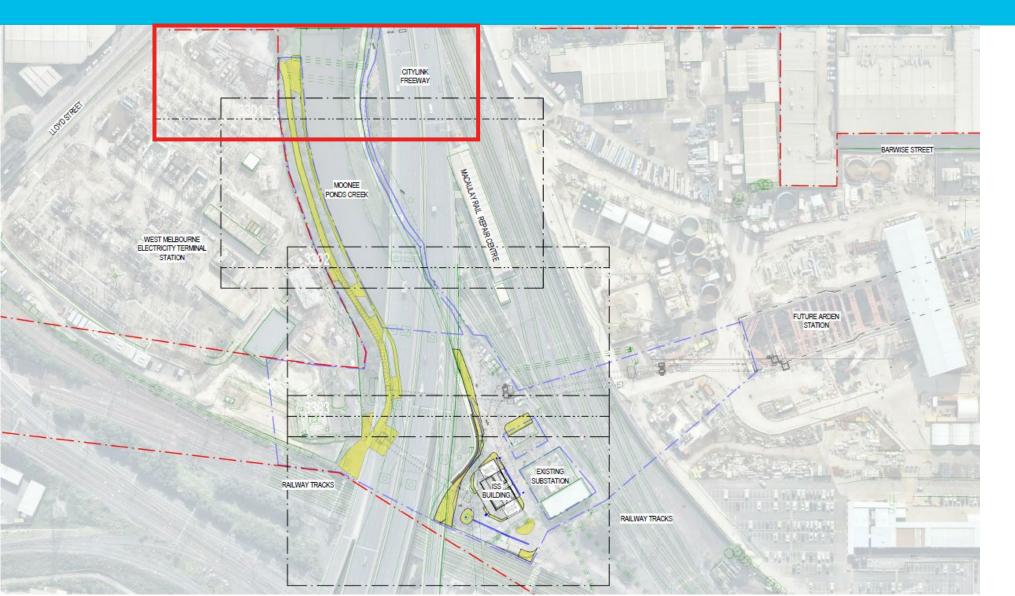






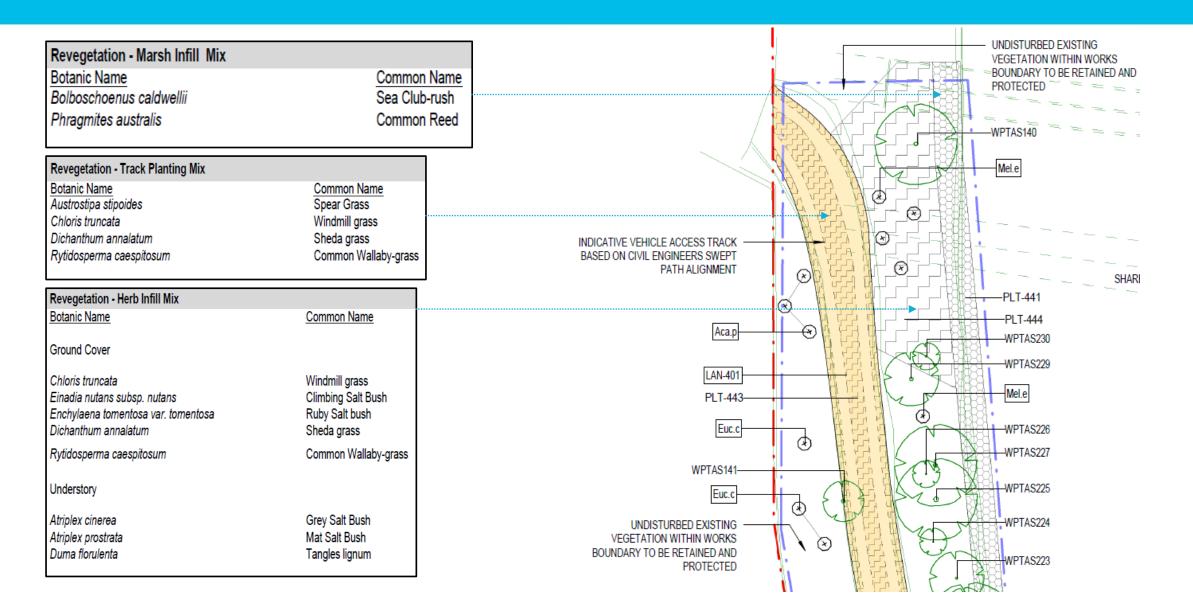
Revegetation and landscaping AREA 1





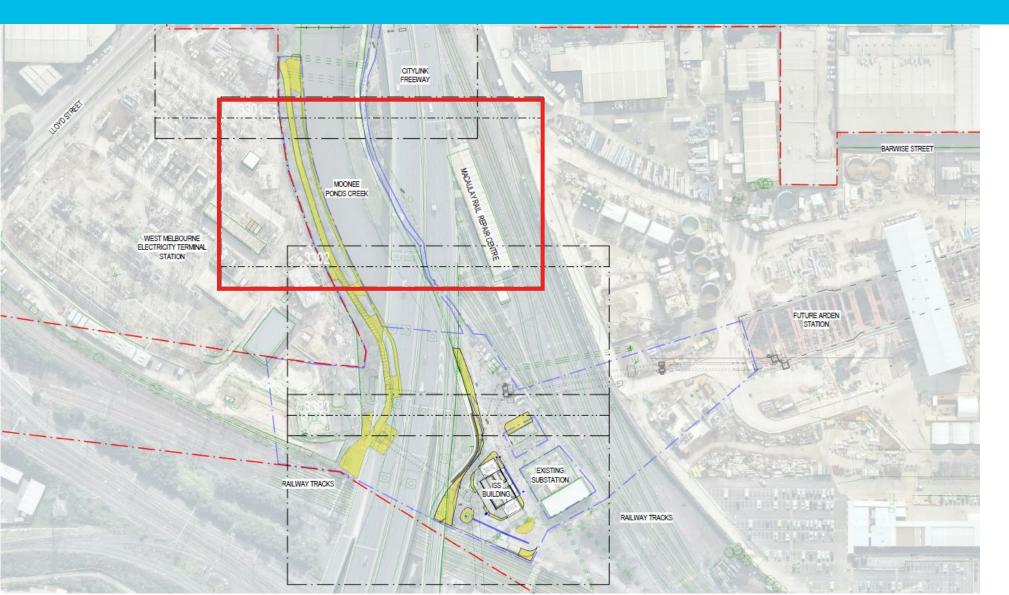






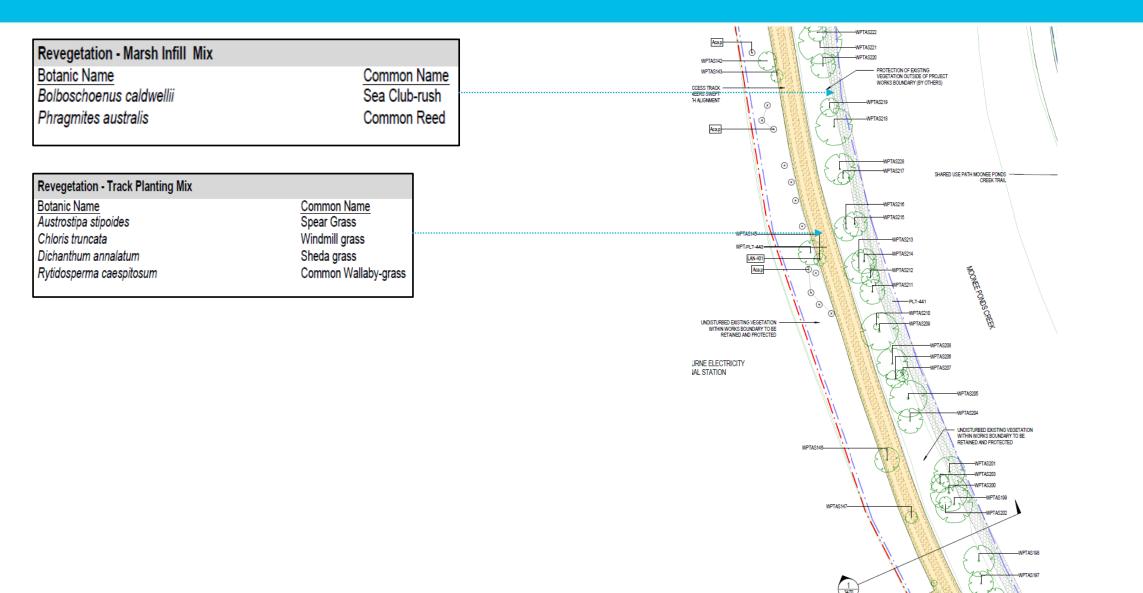
Revegetation and landscaping AREA 2





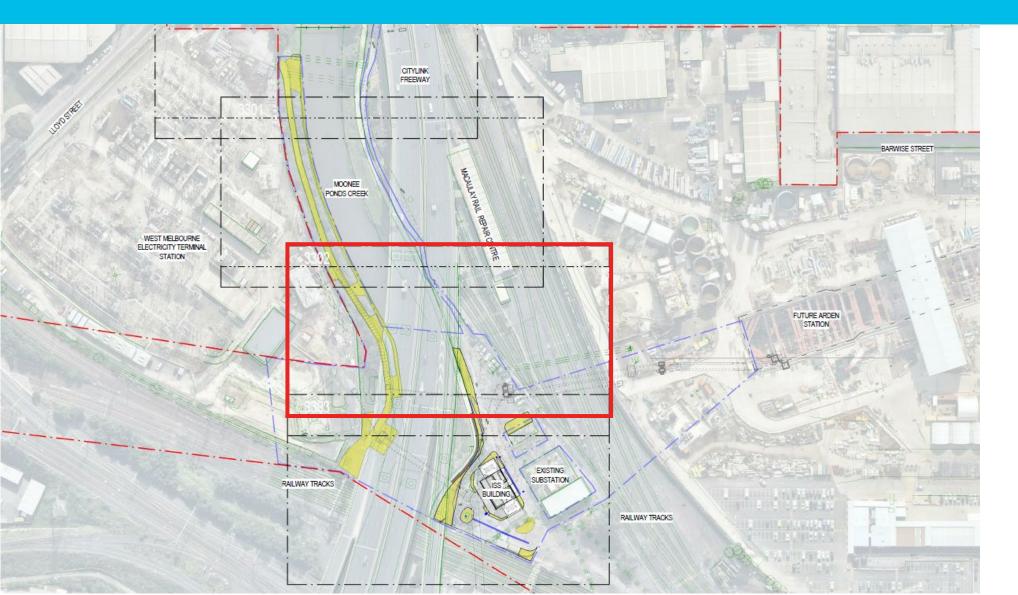






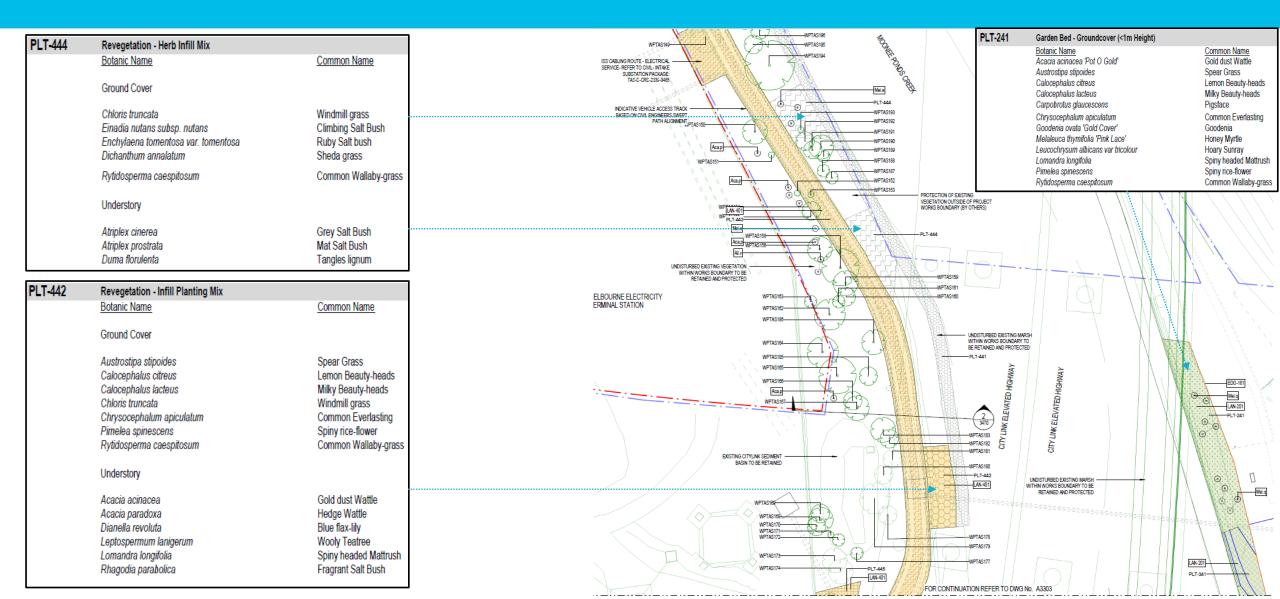
Revegetation and landscaping AREA 3





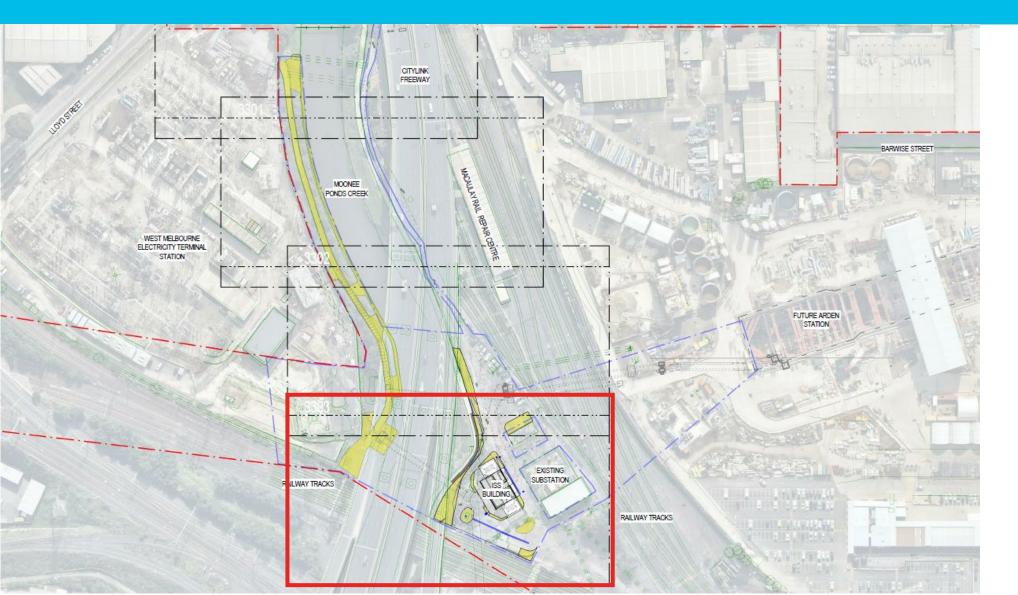
Area 3 Planting Schedule





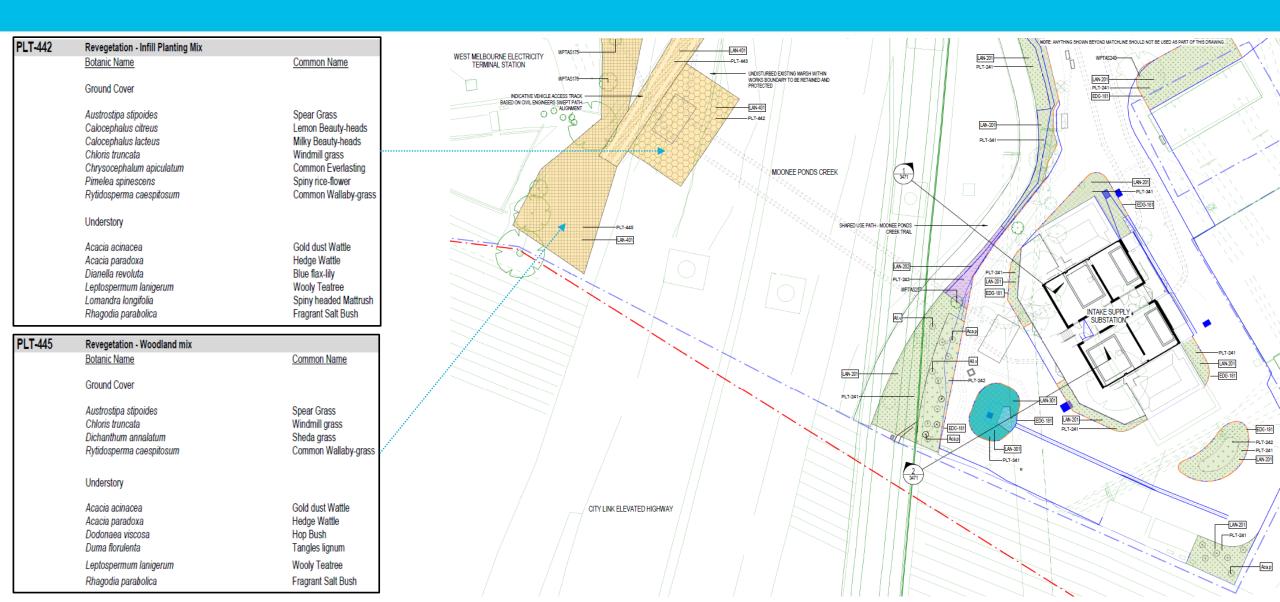
Revegetation and landscaping AREA 4





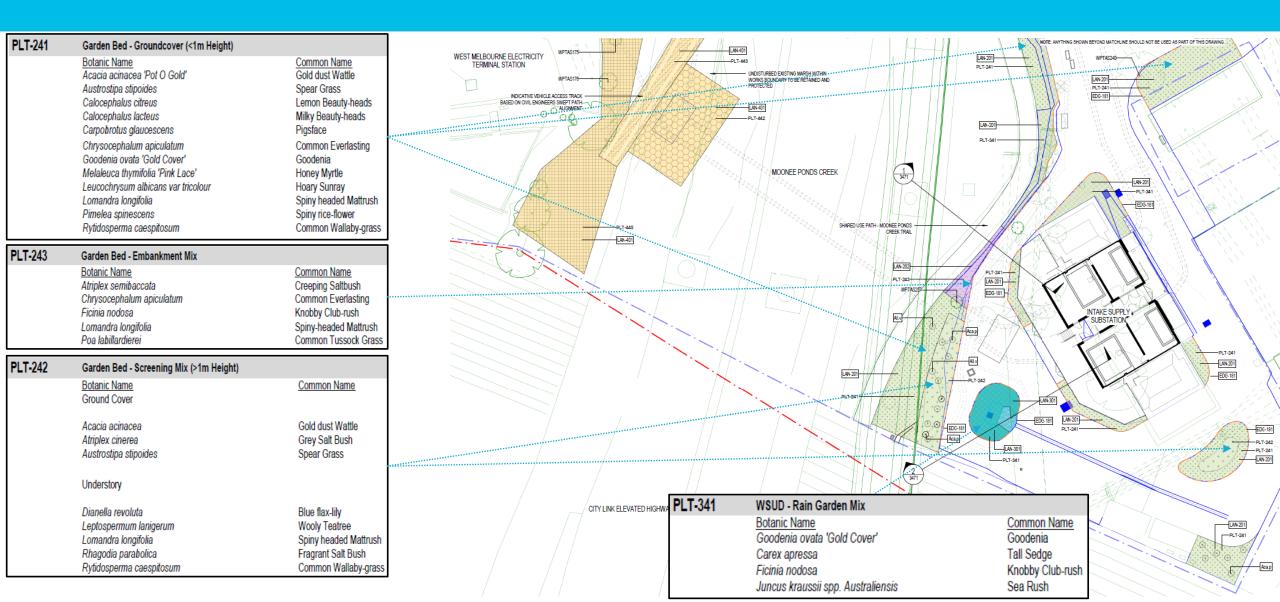
Area 4 Planting Schedule (West Bank)





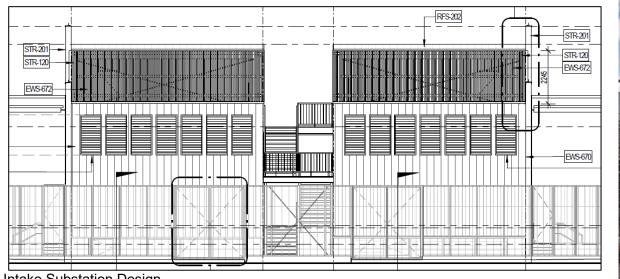
Area 4 Planting Schedule (East Bank)





Design update





Intake Substation Design



Construction Progress – Cladding Installed (*Monday 6 December*)

Construction update



Activity	Date
Final under-creek bore completion (CitiPower Scope)	15 December 2021
Building Completion	17 December 2021
Planting and landscaping	28 January – Early March 2022
Power Commissioning	31 March 2022



Construction Progress (Monday 6 December)



Communications and stakeholder engagement update

Communications and engagement update

North Melbourne and Parkville



Notification and communications

- North Melbourne: December/January construction update (3 December)
- Parkville: December 2021/January 2022 construction update (1 December)
- Parkville: weekly update to key stakeholders (ongoing).

Door knocks, meetings, briefings and events

- North Melbourne: fortnightly meetings with City of Melbourne
- Parkville: fortnightly meetings with Peter MacCallum Cancer Centre, Melbourne Health, University of Melbourne, City of Melbourne and monthly meeting with Graduate House.

Communications and engagement update

North Melbourne and Parkville



Community issues/enquiries and key stakeholder engagement

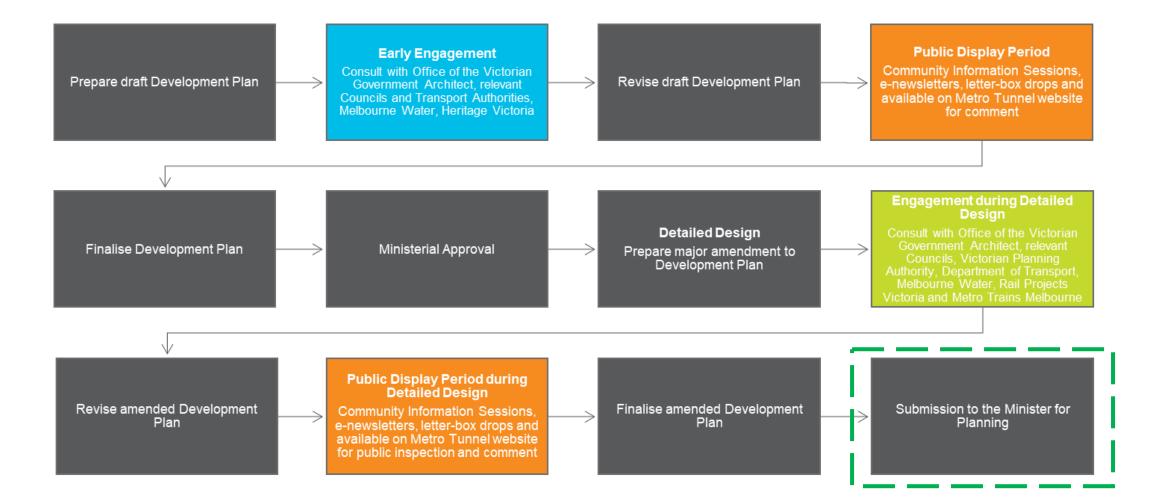
- Parkville: Royal Parade entrance boundary adjustment for escalator works

Upcoming engagement

- Parkville: 2022 activities
- North Melbourne: 2022 activities

METROTUNNEL





Presenter: Danielle Smits

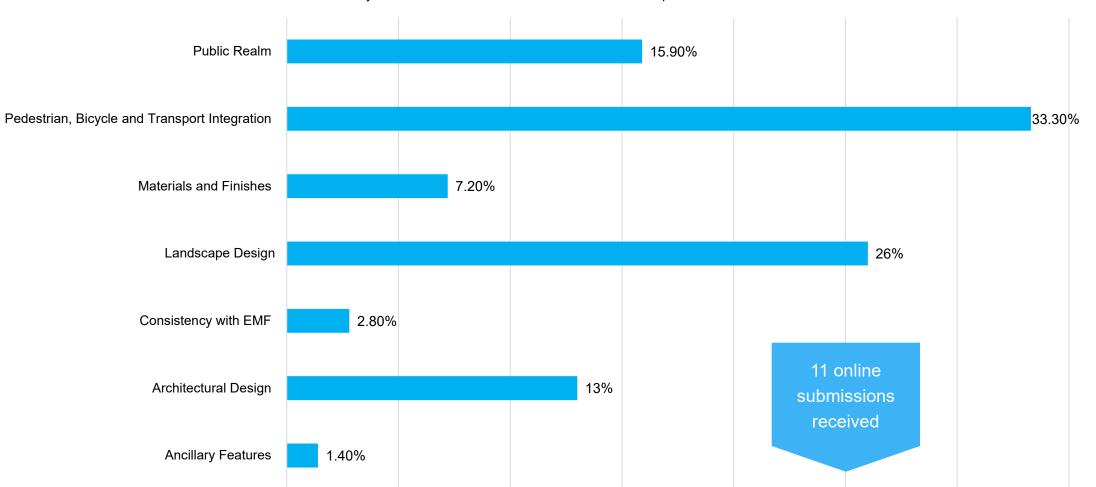
Consultation



- 22 attendees at Parkville Precinct online information session
- 2644 visits to the Engage Vic website
- Parkville Precinct Development Plan submissions:
 - Amended Development Plan (2021): 11 submissions provided via online submission portal
 - Previously approved Development Plan (2018): 200 submissions

What we heard





Key themes of feedback on Parkville Precinct Development Plan

Presenter: Danielle Smits

Development Plan changes



- Updated Section 1.3.2 to reflect process undertaken, including most recent public display period and consultation
- Updated Section 4.3.4.3 bicycle access, to provide further detail regarding the extent of bike lane separation along Grattan Street, and location of bicycle parking throughout the precinct
- Updated Section 4.3.4.4 transport integration, to further explain the changes to the tram stop on Royal Parade and bus stops on Grattan Street east.





- Submitted for Ministerial approval December 2021
- Response to stakeholders
 - Minister's listed stakeholders (Incorporated Document)
 - Key stakeholders
 - \circ Community and organisations who provided a response
 - Community Reference Groups

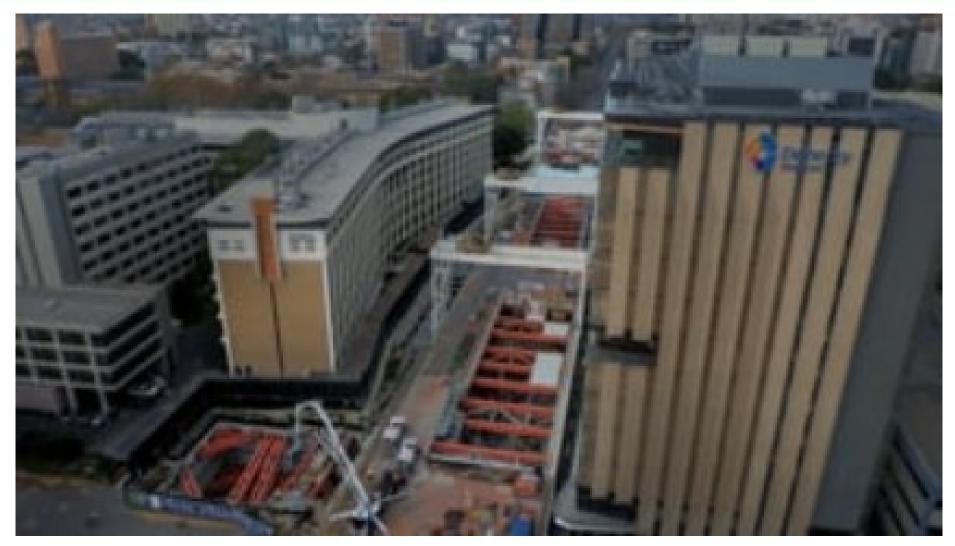


2021 wrap up

Presenters: Danielle Smits; Jordan Turner

Parkville Precinct – 2021 activities





Presenter: Danielle Smits

Arden Precinct – 2021 activities





Presenter: Jordan Turner



Other business

Presenters: Chris Lovel





– Next meeting: Friday 11 February 2022 (online)