



CBD COMMUNITY REFERENCE GROUP MEETING 14

RAIL PROJECTS VICTORIA
SEPTEMBER 2018



METRO TUNNEL EARLY WORKS CBD

CBD - COMMUNITY REFERENCE GROUP
SEPTEMBER 2018

Bec Rowe, Community Stakeholder Lead – Early Works
Jemma Walshe, Community Stakeholder Lead – Early Works

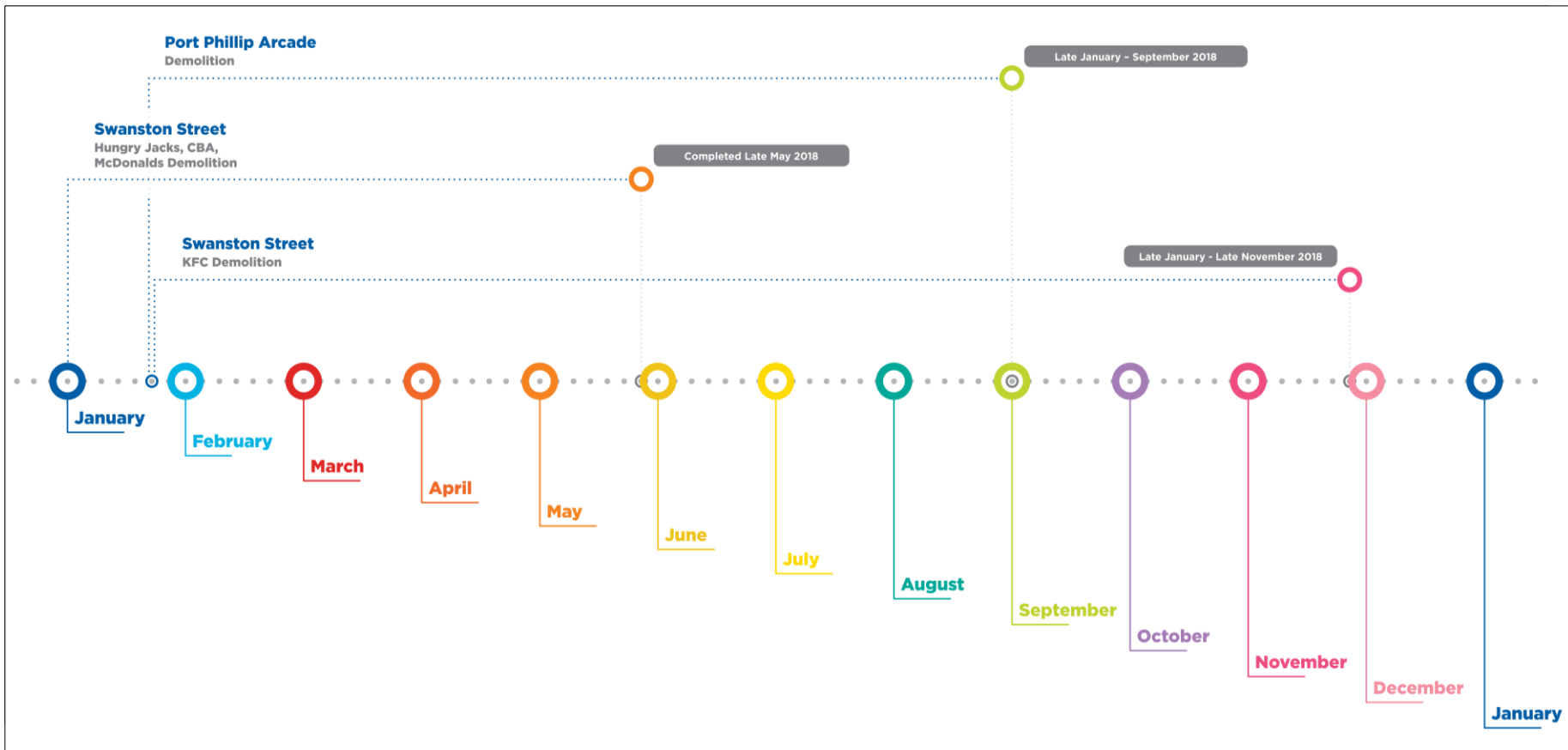


JOHN HOLLAND EARLY WORKS PROGRAM UPDATE



METRO TUNNEL EARLY WORKS TOWN HALL STATION UPDATE

TOWN HALL STATION TIMELINE – EARLY WORKS



KFC & PORT PHILLIP ARCADE DEMOLITION & NICHOLAS BUILDING WORKS

Port Phillip Arcade Demolition

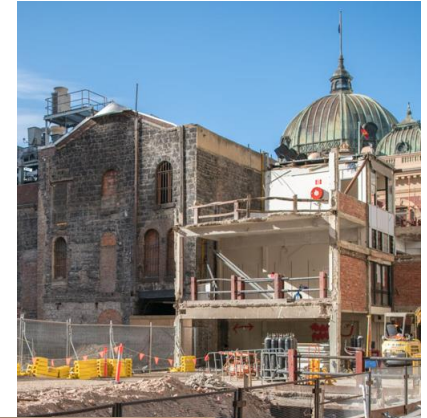
- Building demolition complete
- Flinders Street scaffolding removed

KFC Demolition

- Works to separate the Nicholas building from the former KFC building will be ongoing until late November

Nicholas Building works

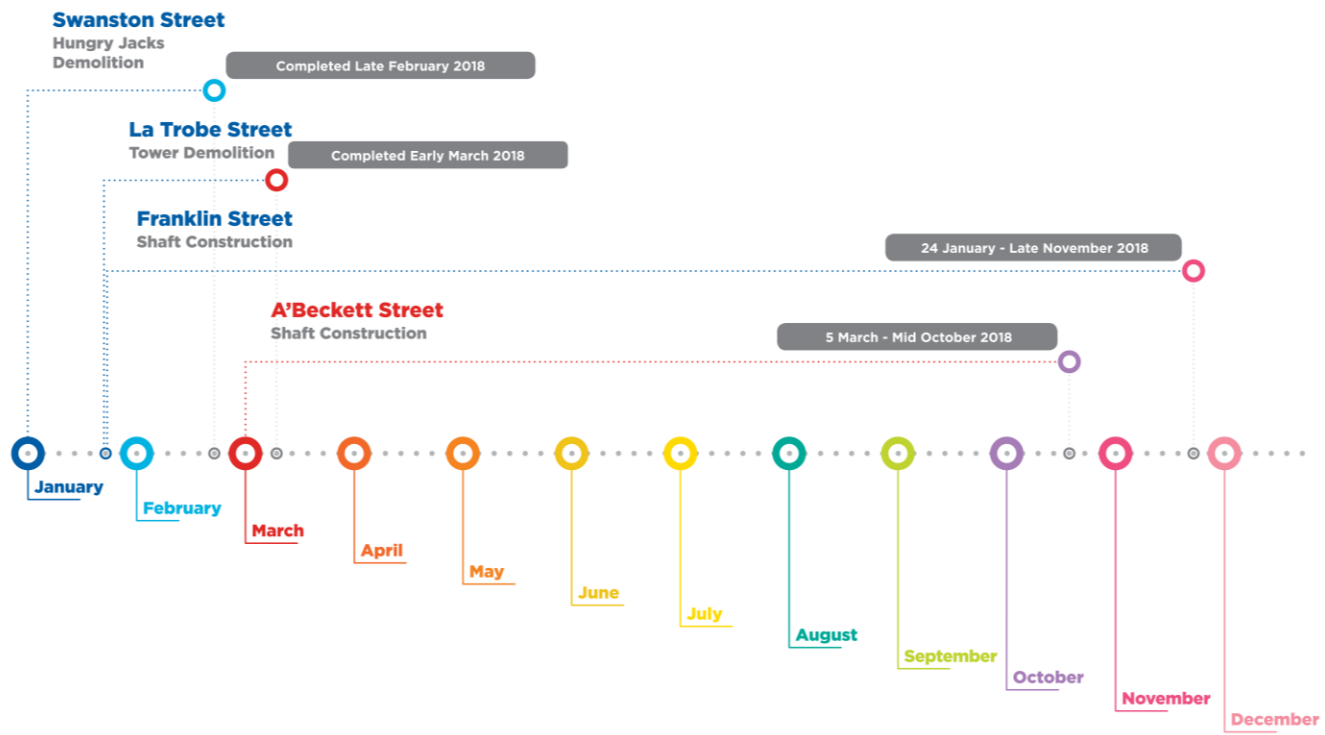
- Internal works completed
- Commencement of pedestrian gantry installation





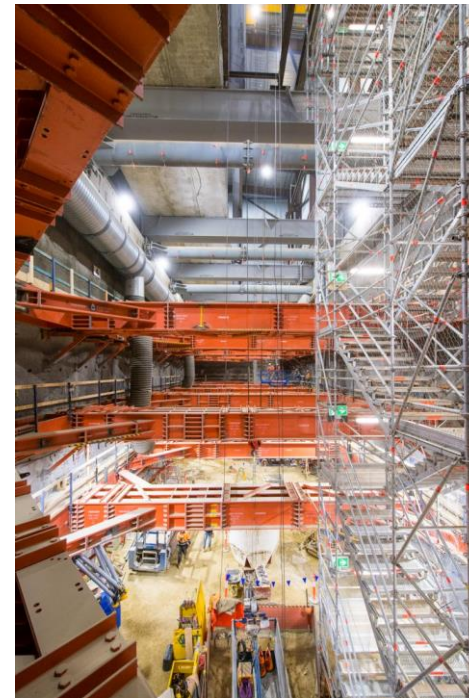
METRO TUNNEL EARLY WORKS STATE LIBRARY STATION UPDATE

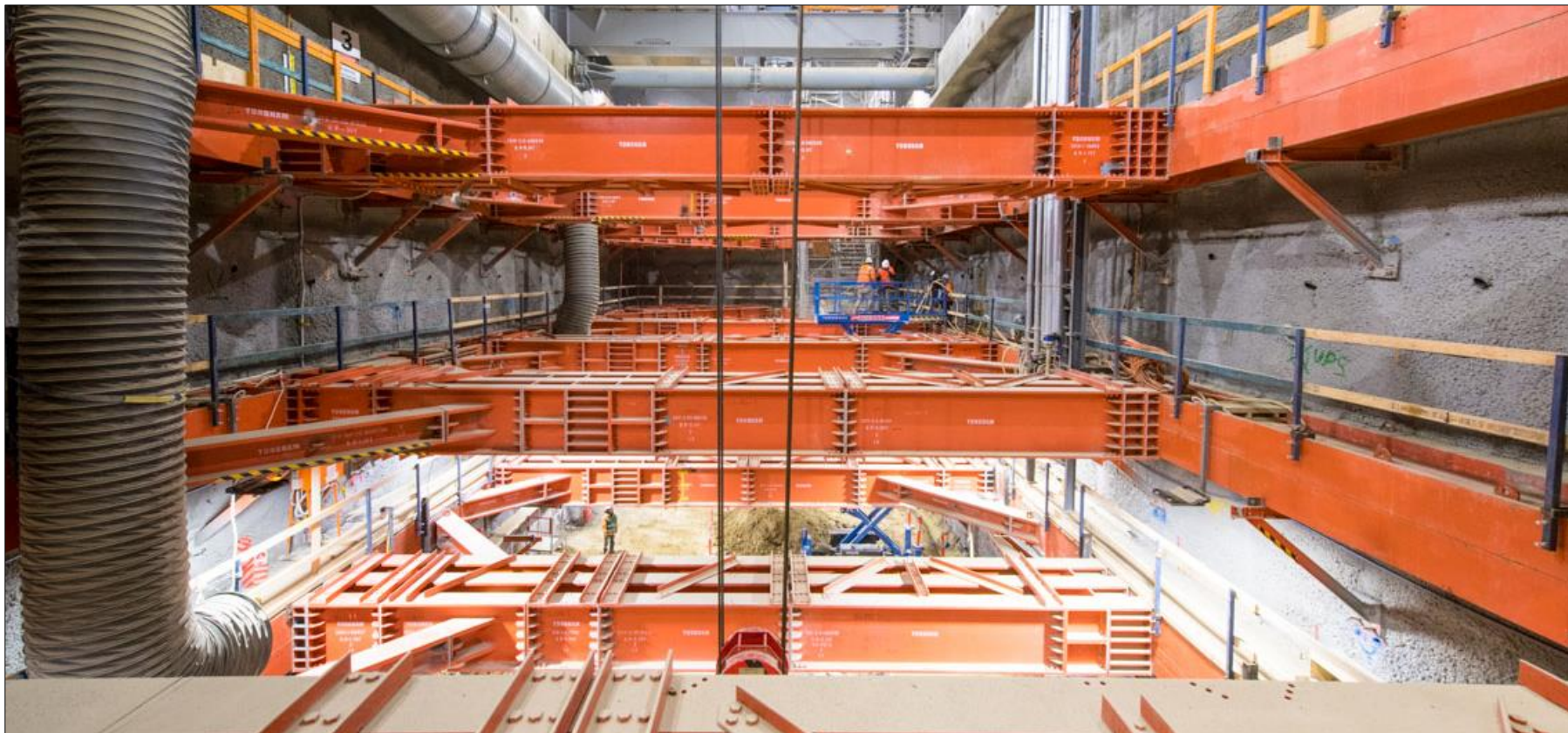
STATE LIBRARY STATION TIMELINE – EARLY WORKS



FRANKLIN STREET & A'BECKETT STREET SHAFT UPDATE

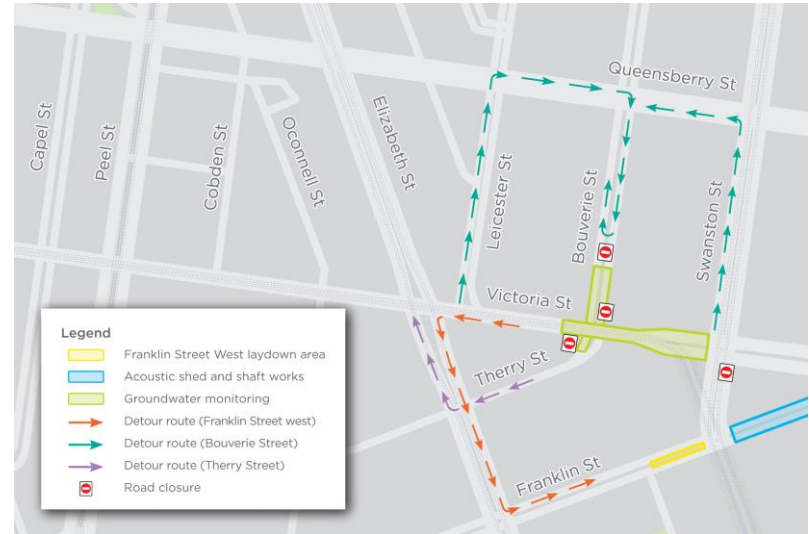
- 24 hour works ongoing at both shaft sites within the acoustic sheds
- Deliveries of props, beams and materials 24 hours a day being prioritised to occur in early evenings from remote locations
- Doors are being closed for all night works





GROUNDWATER MONITORING UPDATE

- Boreholes – complete
- Water main relocation - complete
- Boring works beneath Victoria Street from Bouverie to Therry streets to connect the west and eastbound boreholes on Victoria Street – underway
- Trenching to connect boreholes in Bouverie Street – ongoing until early October, including weekend works
- Commissioning ground water monitoring system – until December





CROSS YARRA PARTNERSHIP DESIGN & CONSTRUCTION

MEETING 14 – CBD COMMUNITY REFERENCE GROUP
24 SEPTEMBER 2018



AGENDA

1. Town Hall Station Update
2. Truck Route Update
3. State Library Update



TOWN HALL STATION UPDATE

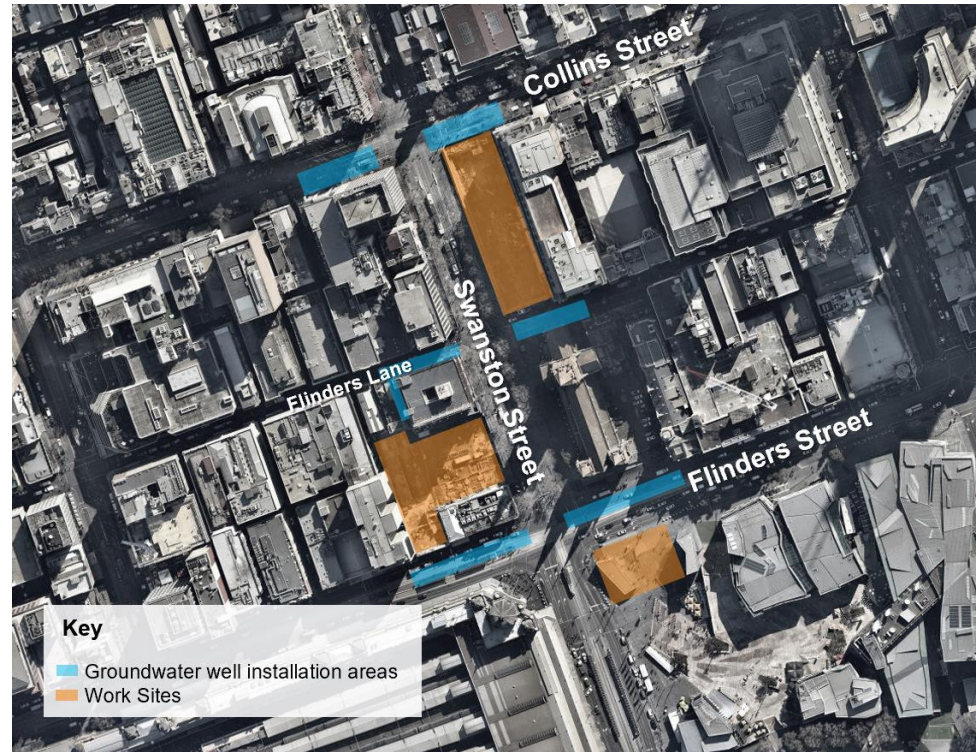
SERVICE INVESTIGATIONS

	Flinders Street investigations	Collins Street investigations
When	<ul style="list-style-type: none"> 10pm – 6am, Monday 24 - Thursday 27 September 	<ul style="list-style-type: none"> 10pm – 6am, Monday 1 - Thursday 4 October
Traffic changes	<ul style="list-style-type: none"> Eastbound lane closure between Queen and Swanston Street 	<ul style="list-style-type: none"> Westbound lanes will be closed between Russel and Swanston Street
Pedestrian changers	<ul style="list-style-type: none"> Local access only for the northern footpath between Swanston and Degraves Street 	<ul style="list-style-type: none"> Closure of the southern footpath between Swanston Street and Regent Place Street



Indicative

- Installing groundwater monitoring wells across the Town Hall Station precinct. This involves:
 - Setting up a temporary worksite, and using non-destructive digging and a drill rig to install a well
- Indicative start: October TBC
- Further information will be released once locations are confirmed.



FLINDERS QUARTER UPDATE

Activity	Involves	Timing
Archaeology	<ul style="list-style-type: none"> Using a small excavator and hand tools to excavate the area 	Ongoing – December 2018
Demolition of archeology footings*	<ul style="list-style-type: none"> Using jackhammers, excavators, and a tipper truck to remove previous building footings <p><i>*awaiting Heritage Victoria approval</i></p>	October – December 2018
Port Phillip Arcade basement demolition	<ul style="list-style-type: none"> Using jackhammers and excavators Removal of rubble 	October – November 2018
Piling preparation works	<ul style="list-style-type: none"> Crushed rock deliveries Rock compaction Perimeter cutting Piling rig deliveries (nightworks) 	October 2018 – January 2019
Piling	<ul style="list-style-type: none"> Piling works Reinforcement deliveries Concrete deliveries 	Late January – July/August 2019

Indicative

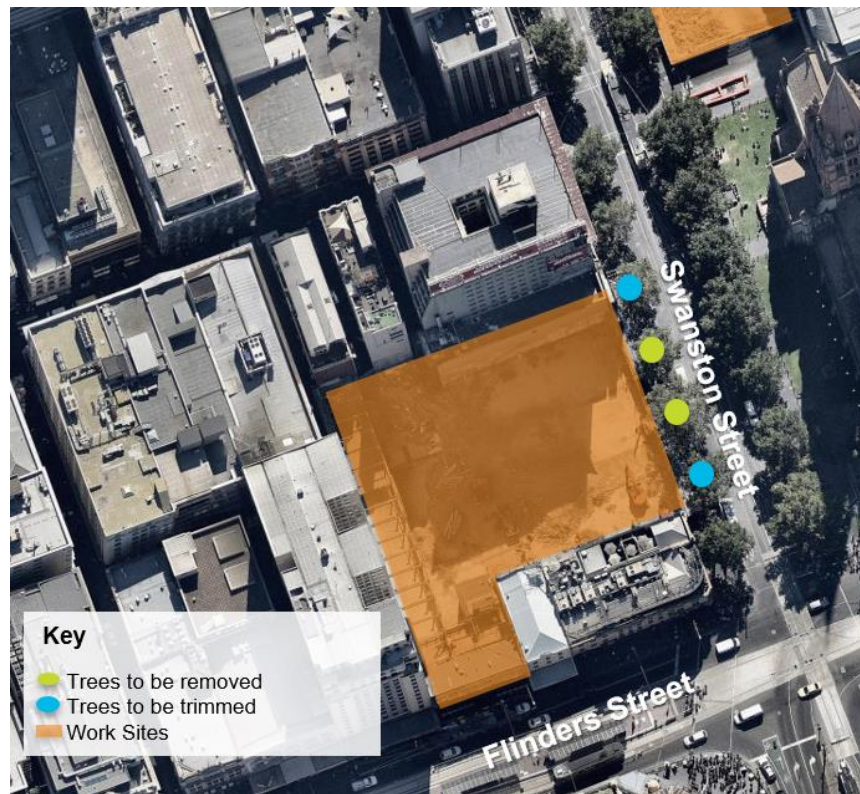
SWANSTON STREET TREE REMOVAL

Further site establishment works involve gantry modification, and site support facilities.

This involves:

- Removal of two trees
- Trimming of two trees

Indicative date: 7 November 2018 (nightworks)



CITY SQUARE UPDATE

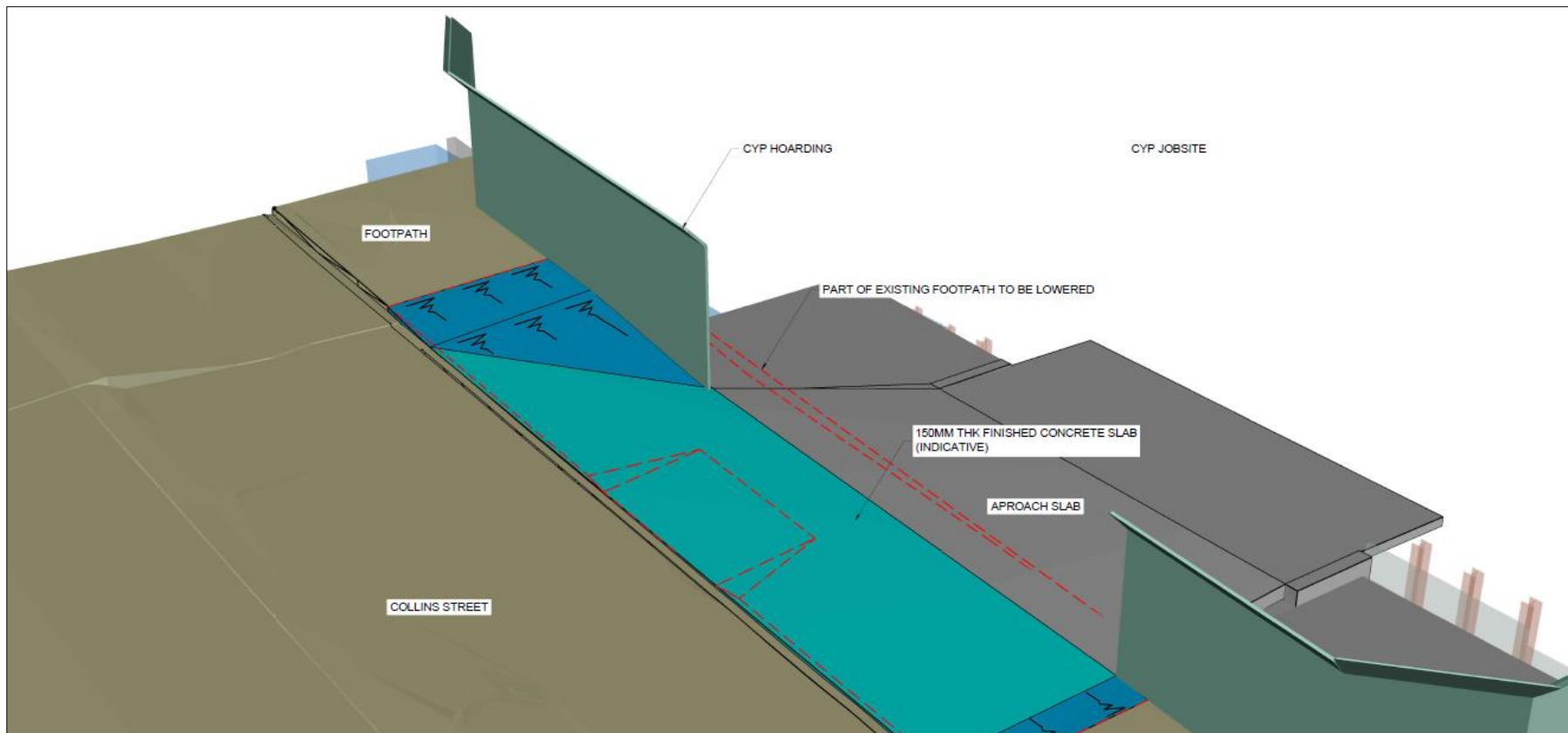
Activity	Involves	Timing
Material removal	<ul style="list-style-type: none"> Using a conveyor to load trucks Some hammering may be required Some out of hours spoil removal 	ongoing
Piling preparation works	<ul style="list-style-type: none"> Removal of existing concrete to facilitate piling works Some hammering may be required 	Ongoing – October 2018
Piling	<ul style="list-style-type: none"> Reinforcement deliveries Piling works Concrete deliveries 	Ongoing – January 2019
Collins Street civil works	<ul style="list-style-type: none"> Adjust hoarding to install a new gate that accommodates larger vehicles 	TBC

Indicative

COLLINS STREET CIVIL WORKS



COLLINS STREET CIVIL WORKS



FEDERATION SQUARE UPDATE

Activity	Involves	Timing
Heritage Application	<ul style="list-style-type: none">Submitted	ongoing
IPO Exemption Works	<ul style="list-style-type: none">DDA ramp installationSoil testingTemporary fencing	Ongoing – October 2018
Flinders Street civil works	<ul style="list-style-type: none">Closure of one westbound laneConcrete barrier constructionImplementing new signal changesKerb alignment works	October – November (nightworks)
Demolition	<ul style="list-style-type: none">Demolition of the Western Shard and Federation Deck	Subject to heritage approval



FEDERATION SQUARE CIVIL WORKS STAGING

From October, the **outer left hand turn westbound lane on Flinders Street will be closed** for up to four years and **civil works will be completed** on Flinders Street to **support construction** of the new Town Hall Station entrance at Federation Square.

This involves:

- Closure of one westbound lane on Flinders Street
- Concrete barrier construction
- Implementing new signal changes
- Kerb alignment works

When: 10pm – 5am

Indicative timing: 3 October – Late November 2018

Works are required to be completed at night to minimise impacts to Flinders Street traffic and tram network.

STAGE ONE

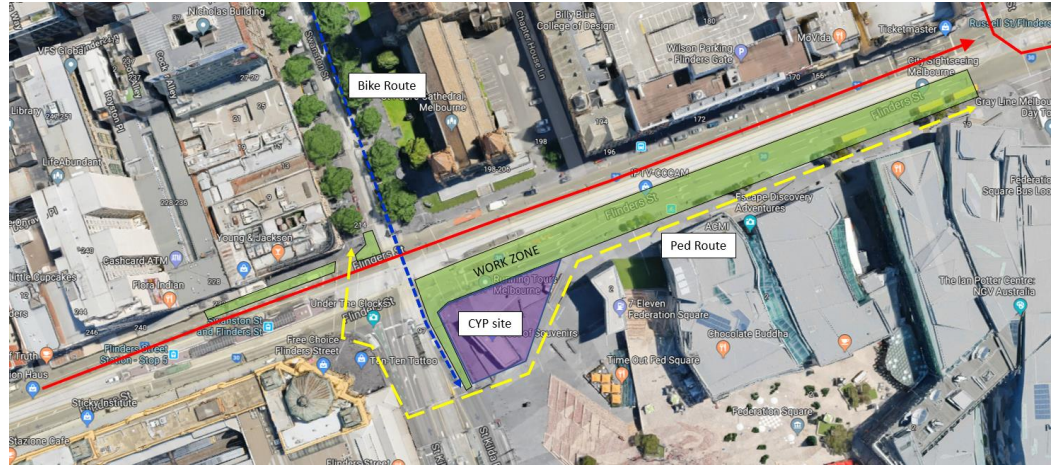
Stage 1: approximately 1 week

- Removing the median strip using an excavator, jackhammer and saw cut between the through lane and the westbound tram lines



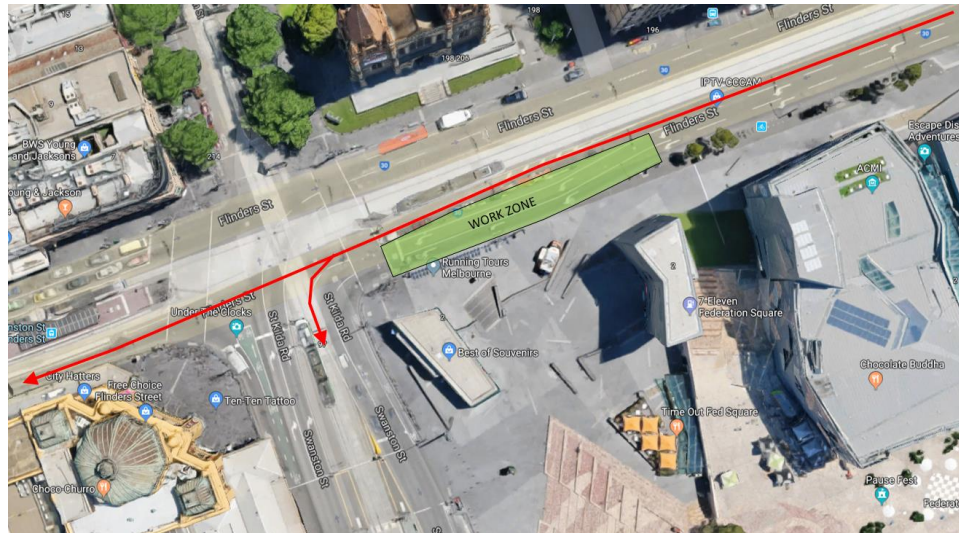
Stage 2: approximately 2 nights

- Setting up temporary barriers
- Realigning the westbound inner left-hand turn lane and through lane and signal changes



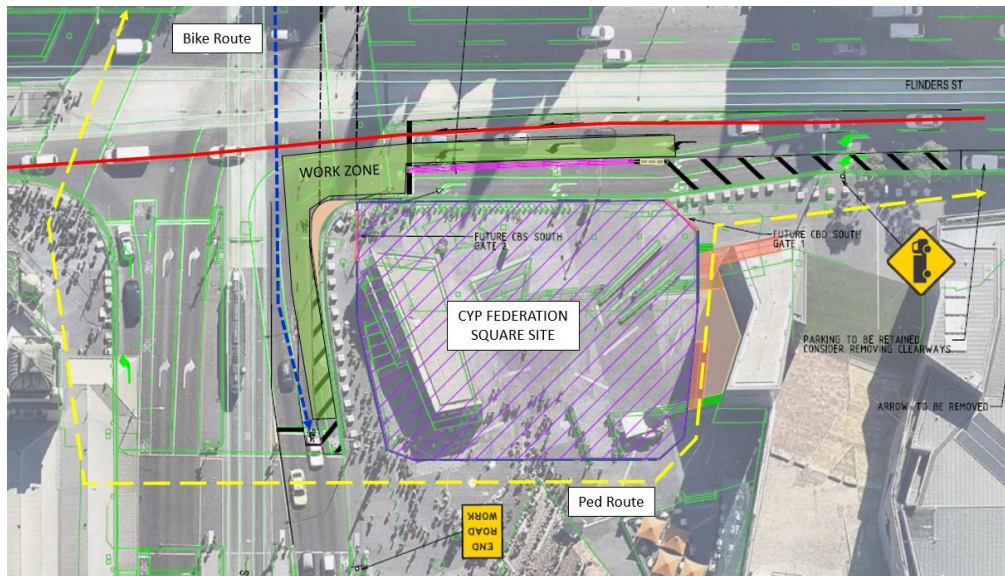
Stage 3: approximately 3 weeks

- Construction of a concrete barrier using an excavator, jackhammer and saw cut between the two westbound left-hand turning lanes



Stage 4: approximately 1 week

- Changing the kerb using an excavator, jackhammer and saw cut
- Realigning the pedestrian crossover on the corner of Federation Square at the Flinders Street and Swanston Street intersection
- Relocating tram poles on Flinders Street, adjacent to the Young and Jackson Hotel



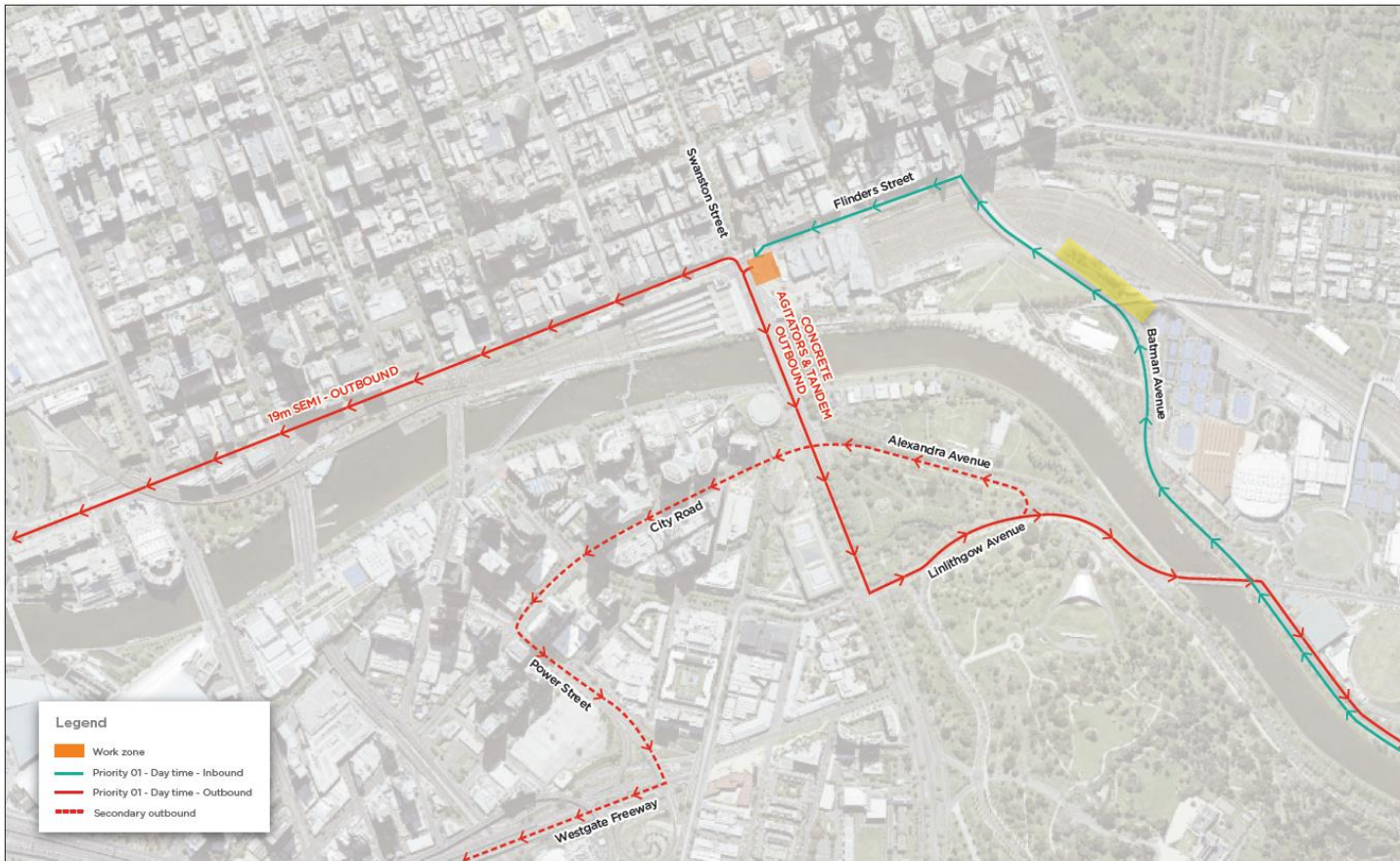


CBD SOUTH TRUCK ROUTES

FEDERATION SQUARE – STAGE 1 PRIMARY ROUTES

Stage 1 Primary Routes

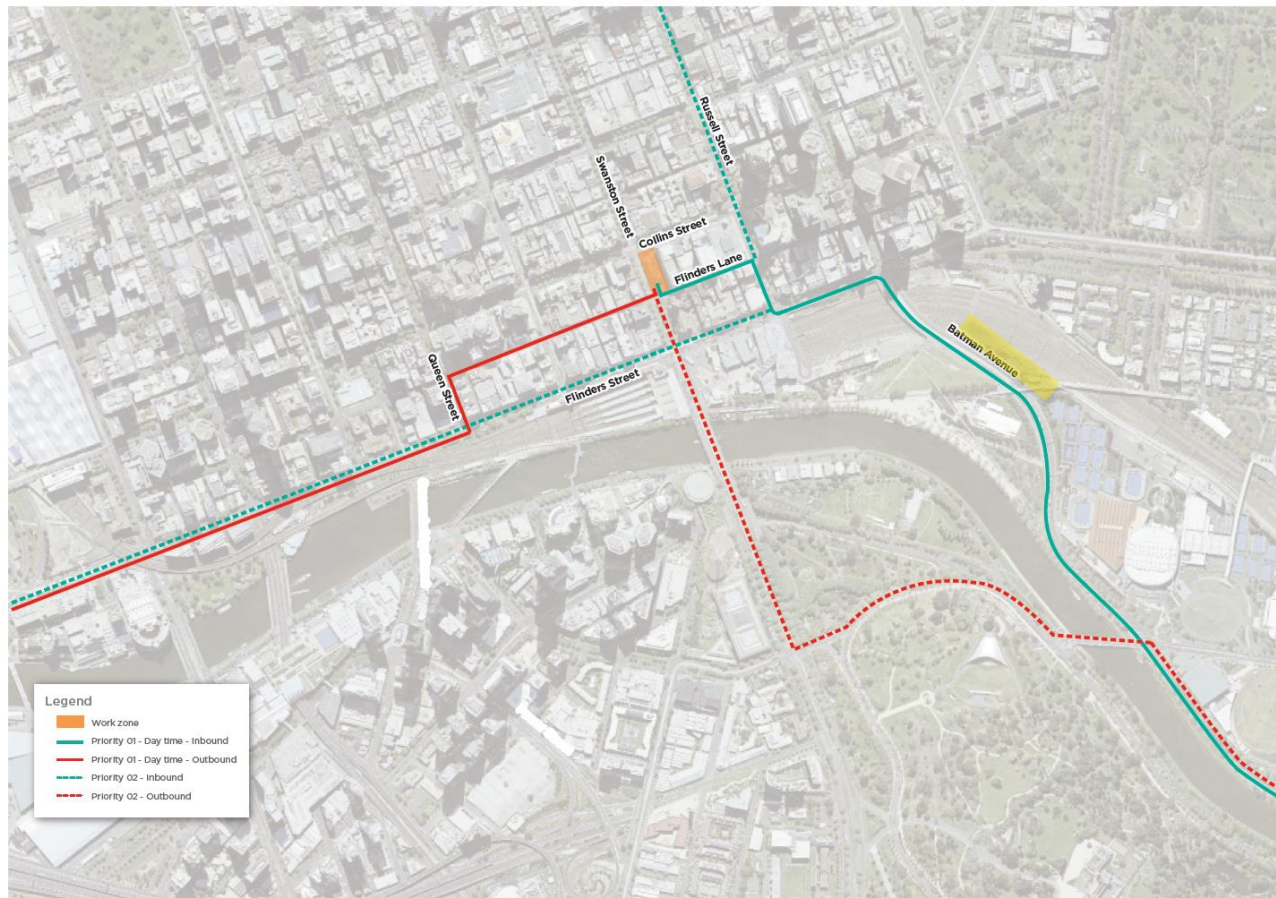
- Will operate until late next year until Acoustic Shed construction
- Truck staging area proposed to be located off Batman Avenue (refer to indicative yellow zone on map)



Indicative only

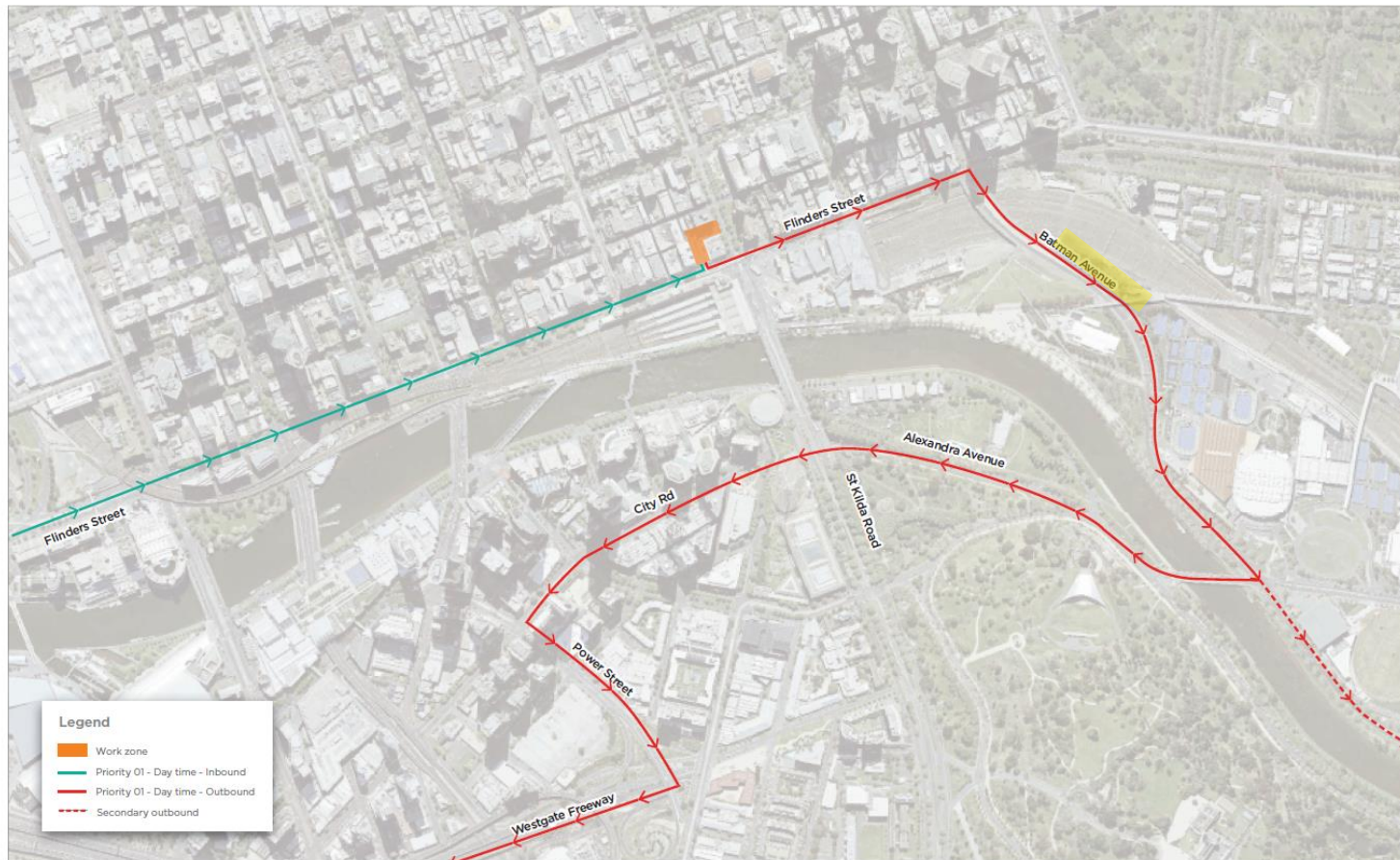
Stage 1 Primary Routes

- Will operate until mid-to-late next year until Acoustic Shed construction
- Truck staging area proposed to be located off Batman Avenue (refer to indicative yellow zone on map)



FLINDERS QUARTER – PRIMARY ROUTES

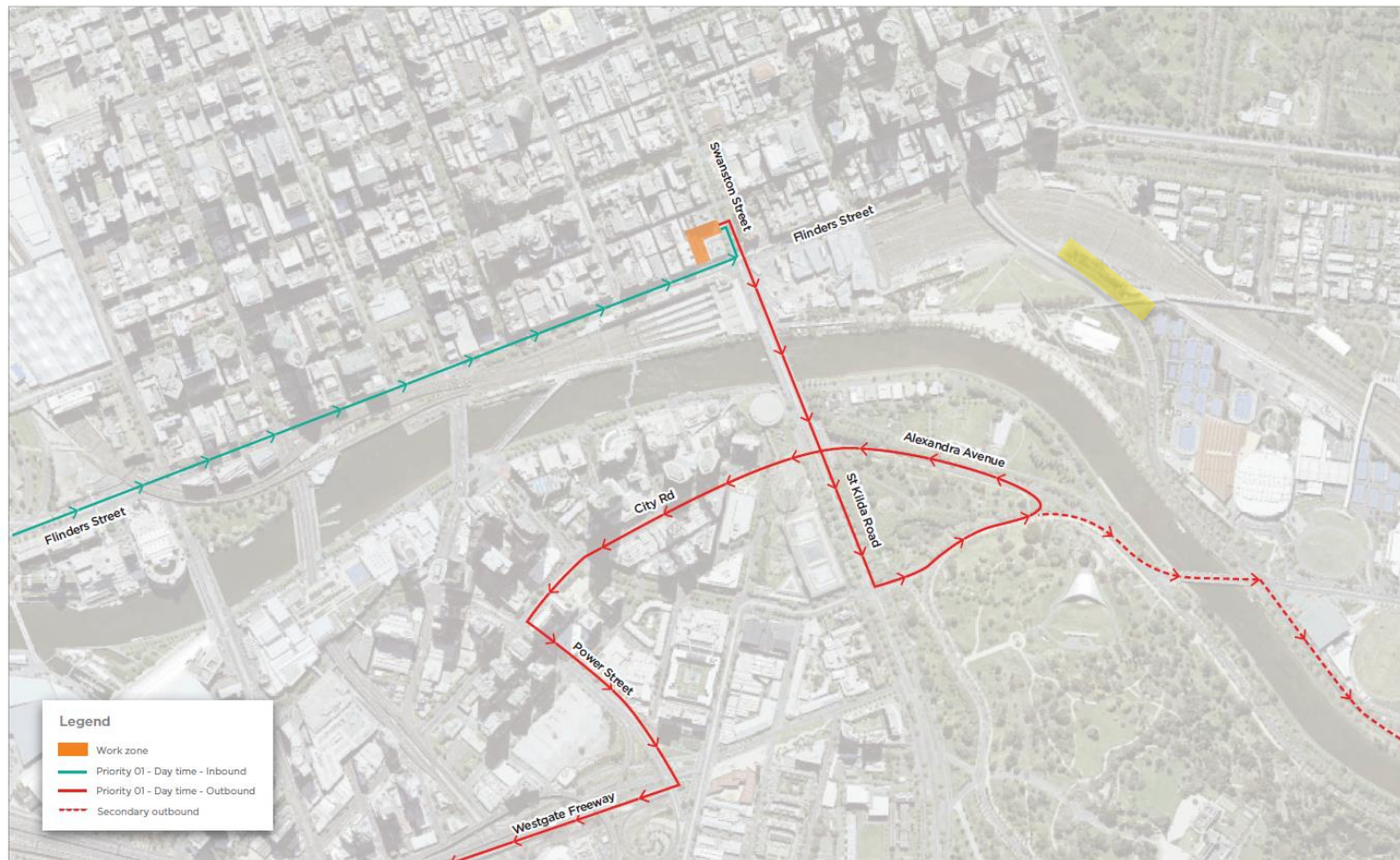
- Route dependent on construction stage at Flinders Quarter site
- Truck staging area proposed to be located off Batman Avenue (refer to indicative yellow zone on map)



Indicative only

FLINDERS QUARTER – LIMITED ACCESS DURING PILING

- Route dependent on construction stage at Flinders Quarter site
- Truck staging area proposed to be located off Batman Avenue (refer to indicative yellow zone on map)

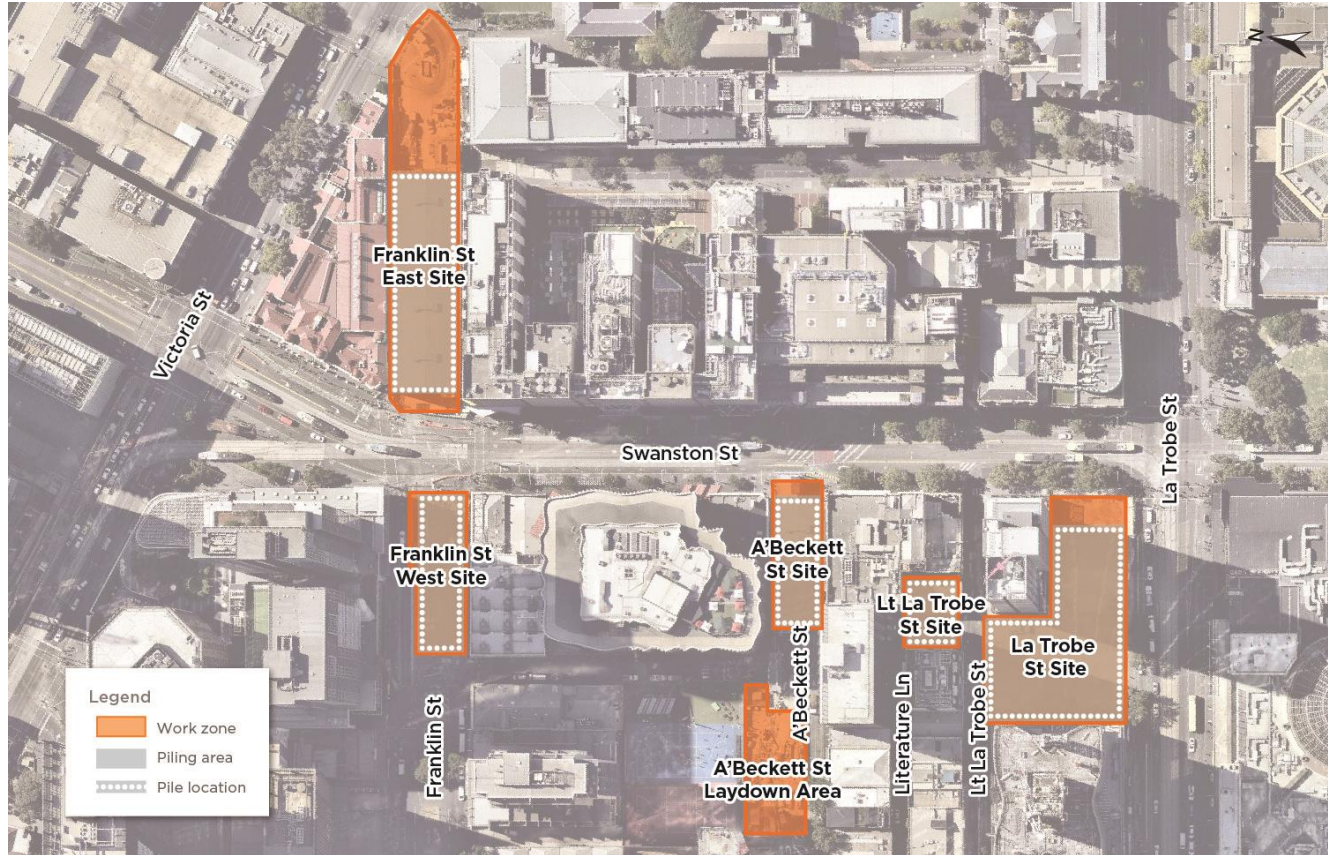


Indicative only



STATE LIBRARY STATION UPDATE

CBD NORTH PRECINCT MAP



LITTLE LA TROBE STREET UPDATE

Activity	Involves	Timing
Service relocations	<ul style="list-style-type: none"> Gas and power relocations completed Reinstatement works ongoing 	<ul style="list-style-type: none"> Relocation works completed on Sunday 16 September Reinstatement works are ongoing
Demolition	<ul style="list-style-type: none"> Demolition of three buildings Changed traffic conditions in Little La Trobe and Literature Lane Up to 30 minute closures of Literature Lane to allow for safe removal of material 	October 2018 – January 2019
Archaeology	<ul style="list-style-type: none"> Using a small excavator and hand tools to excavate the area 	January – May 2019
Further relocation works	<ul style="list-style-type: none"> Service relocations in Literature Lane prior to piling <ul style="list-style-type: none"> Sewer Gas 	Sewer: December 2018 Gas: Early 2019

Indicative

LA TROBE STREET SITE UPDATE

Activity	Involves	Timing
Archaeology	<ul style="list-style-type: none"> Using a small excavator and hand tools to excavate the area 	Ongoing – end of October
Driveway installation	<ul style="list-style-type: none"> Intermittent footpath closures of northern La Trobe Street footpath 2 out of 3 driveways completed Scaffold removal and installation 	Ongoing – mid September 2018
Site establishment	<ul style="list-style-type: none"> Cribbing deliveries Water tank installation Material deliveries 	Ongoing – End October 2018
Piling preparation	<ul style="list-style-type: none"> Slab and basement demolition using jackhammers and excavator Intermittent footpath closures Crushed rock deliveries Rock compaction 	September – late November
Piling	<ul style="list-style-type: none"> Piling rig delivery Reinforcement deliveries Concrete deliveries 	Late October 2018 – ongoing

FRANKLIN STREET WEST SITE UPDATE

Activity	Involves	Timing
Set up construction shaft site and laydown area	<ul style="list-style-type: none"> • Pedestrian covered walkway installation, requiring Franklin Street southside footpath closure • Service investigations • Installing barriers 	Ongoing – November 2018
Piling platform and support works	<ul style="list-style-type: none"> • Build piling platform • Material deliveries to laydown area 	Ongoing - November 2018
Piling at shaft site	<ul style="list-style-type: none"> • Piling (72 piles) at approx. 35-45 m • Reinforcement deliveries • Concrete deliveries 	Mid October 2018 – May 2019

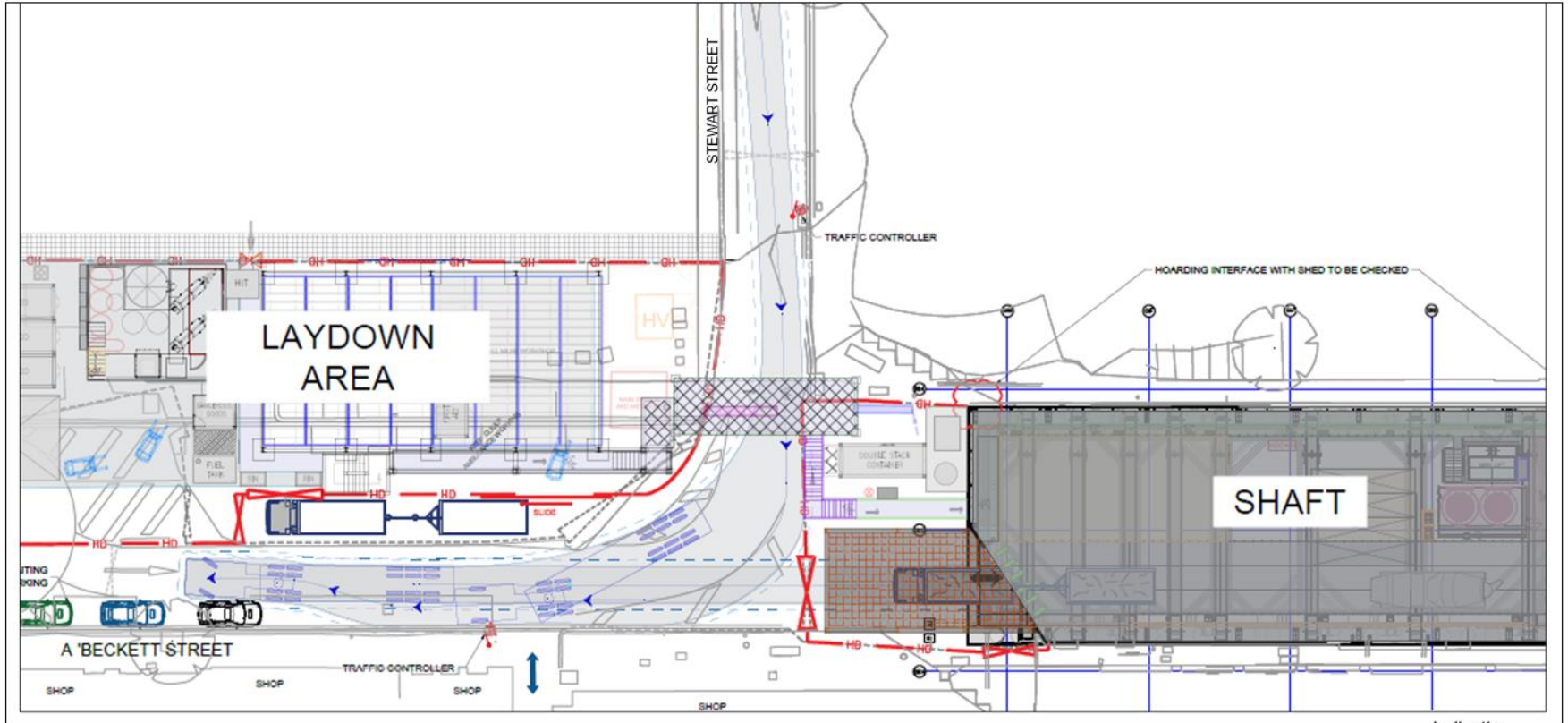
Indicative

A'BECKETT STREET SHAFT SITE UPDATE

Activity	Involves	Timing
Site establishment	<ul style="list-style-type: none">• Construction of covered walkway over Stewart Street*• Material and equipment deliveries• Installation of earth stakes <p><i>*Stewart Street closures required for up to six weeks to ensure works are carried out safely.</i></p>	Mid October – Mid November 2018
Excavation	<ul style="list-style-type: none">• 24 hour excavation	Ongoing

Indicative

A'BECKETT STREET SITE LAYOUT



GROUNDWATER MONITORING

- Ongoing groundwater monitoring on Victoria Street, Therry Street, Bouverie Street, and Franklin Street
- Wells are located on footpaths and roads
- Some out of hours work required due to required lane closures
- Testing occurs periodically (monthly, quarterly etc)





QUESTIONS



KEEPING MELBOURNE MOVING

CBD - COMMUNITY REFERENCE GROUP
SEPTEMBER 2018

Nathan Stevens, Senior Transport Engineer – Rail Projects Victoria

MAJOR ROAD CHANGES

JAN 2017

Northern end of CBD

Road closures at Franklin Street and A'Beckett Street to facilitate shaft construction

FEB 2018

Grattan Street

Road closure at Grattan Street

SEP/OCT 2018

Flinders Street

Reduced to one lane of traffic turning left from Flinders Road to St Kilda Road (Princes Bridge)

JUN/JUL 2017

Domain Precinct

Major tram works on St Kilda Road to reroute 58 tram from Domain Road to Toorak Road West. Closure of Domain Road.

FEB 2018

St Kilda Road

Reduced to one lane of traffic each direction, with tram and cycling access maintained

UNTIL 2023

Various Roads

Other periodic road impacts continuing with construction until 2023



St Kilda Rd

Flinders St

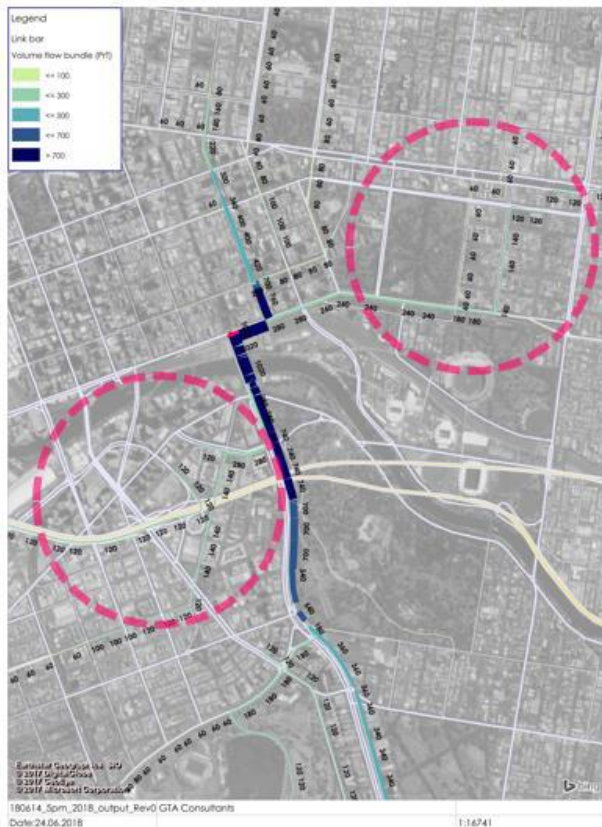


Vehicles can still turn left

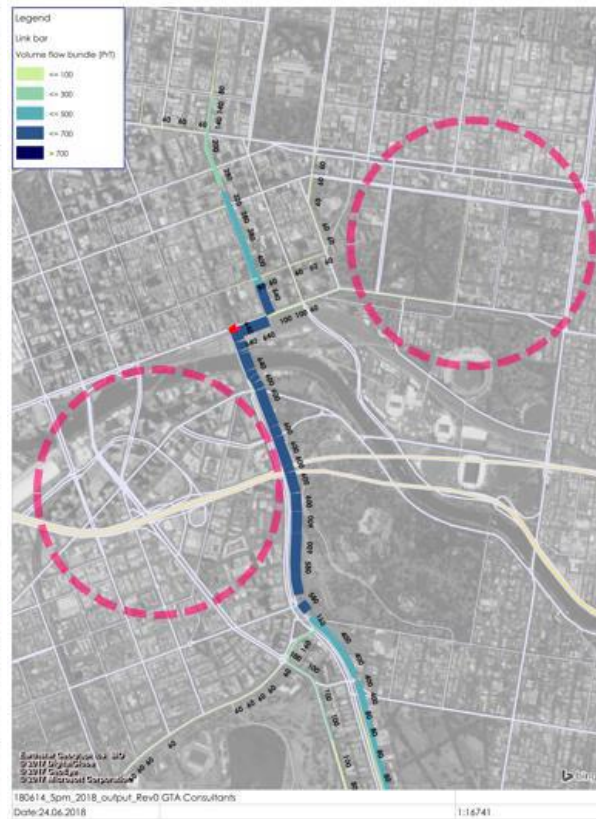


MODELLING THE IMPACTS

- CYP has undertaken detailed traffic modelling to inform the traffic management.
- Modelling showing up to 4 minute delays on Flinders Street. Expecting initial delays up to 15 minutes.
- Helped to understand the behaviour of motorists using the Flinders Street area i.e. origins / destinations



NORMAL CONDITIONS (PM PEAK)



FLINDERS ST LANE CLOSURE (PM PEAK)

INFLUENCING TRAVEL BEHAVIOUR

Aim to influence behaviour of motorists by providing information to help them make informed travel decisions.

- **Trying a different route to find the quickest way**
 - Comparison of journey times from the CBD to key locations i.e. St Kilda Junction, West Gate Freeway
- **Leaving earlier or later to avoid the busiest times on road**
 - Comparison of vehicles volumes on key roads during the day i.e. Flinders Street
- **Considering other transport options**
 - Comparison of journey times on different modes using i.e. PTV Journey Planner, Google Maps

1. Workplaces in the CBD and Southbank

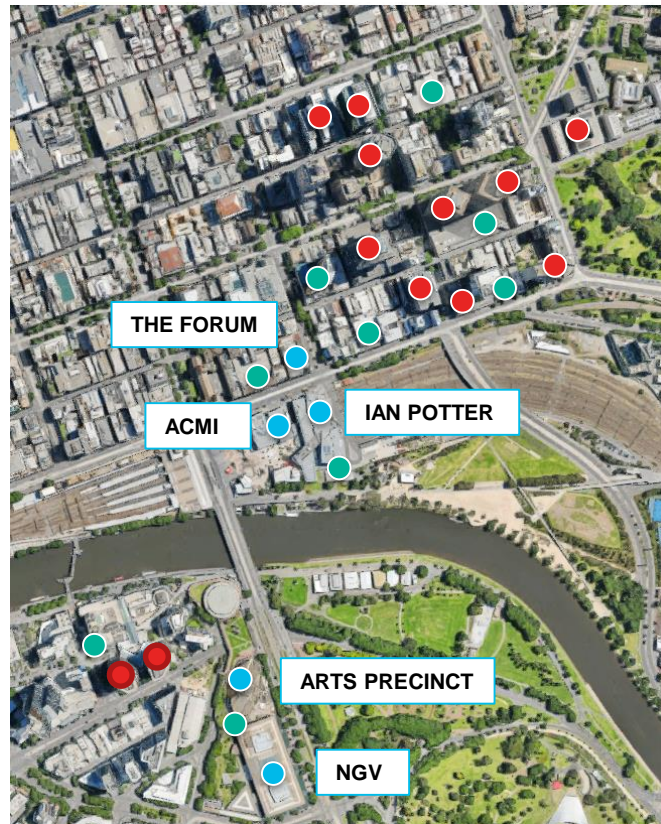
- Where commuting motorists begin or end their trips in weekday periods.
- *State Government, ANZ, Bupa, Ernst & Young, AusPost, Telstra etc*

2. Entertainment and Tourism Venues

- Where irregular motorists visit during weekdays and weekends
- *ACMI, NGV inc. Ian Potter, Arts Centre, The Forum etc*

3. Parking Facilities

- Used by regular and irregular motorists during weekdays and weekends





QUESTIONS