



CBD COMMUNITY REFERENCE GROUP MEETING 16

14 DECEMBER 2018



METRO TUNNEL EARLY WORKS CBD

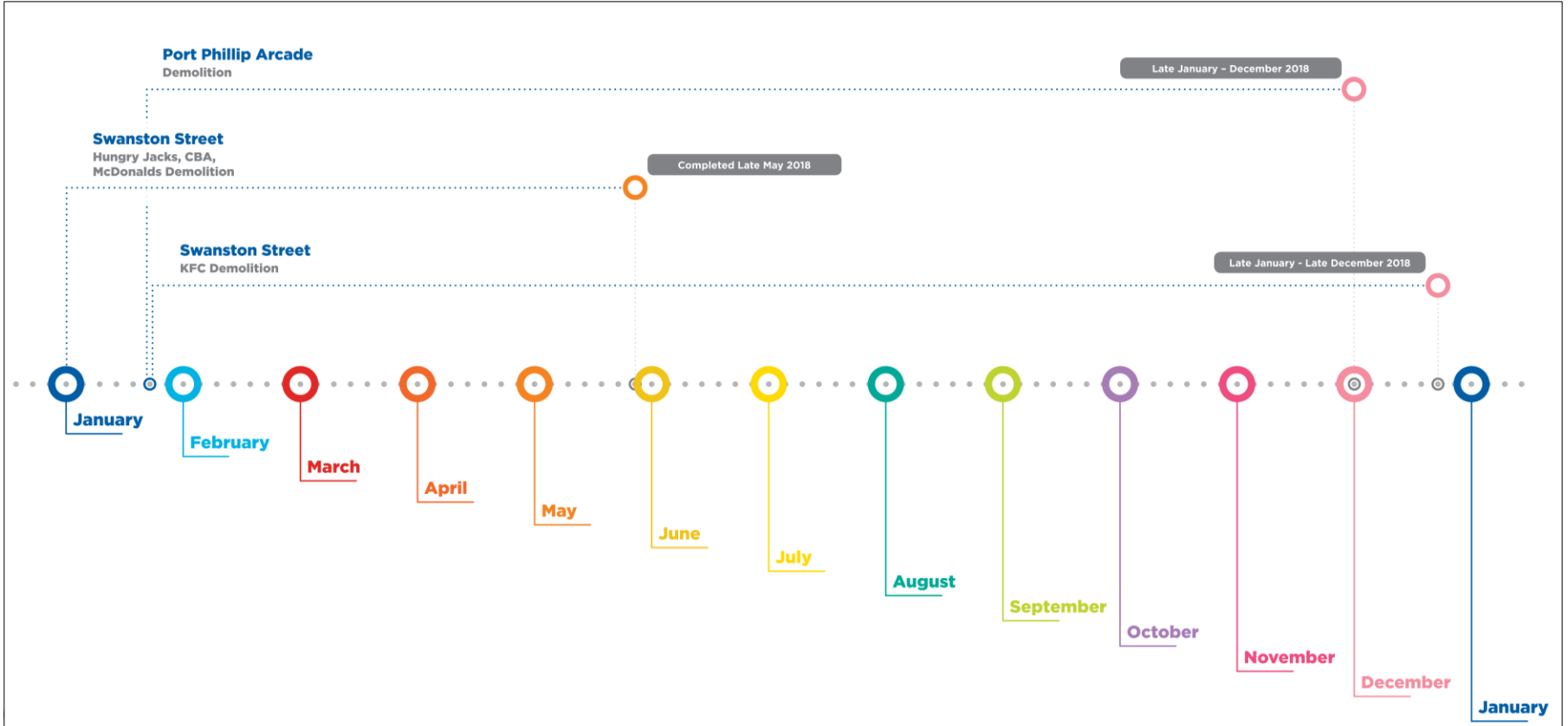
CBD - COMMUNITY REFERENCE GROUP
DECEMBER 2018

Joseph Mansell – Early Works



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

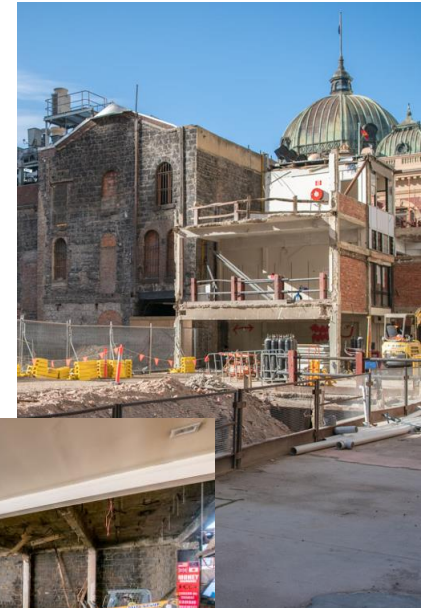
- Ground slab removal complete, building repair works continuing

KFC Demolition

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

Nicholas Building works

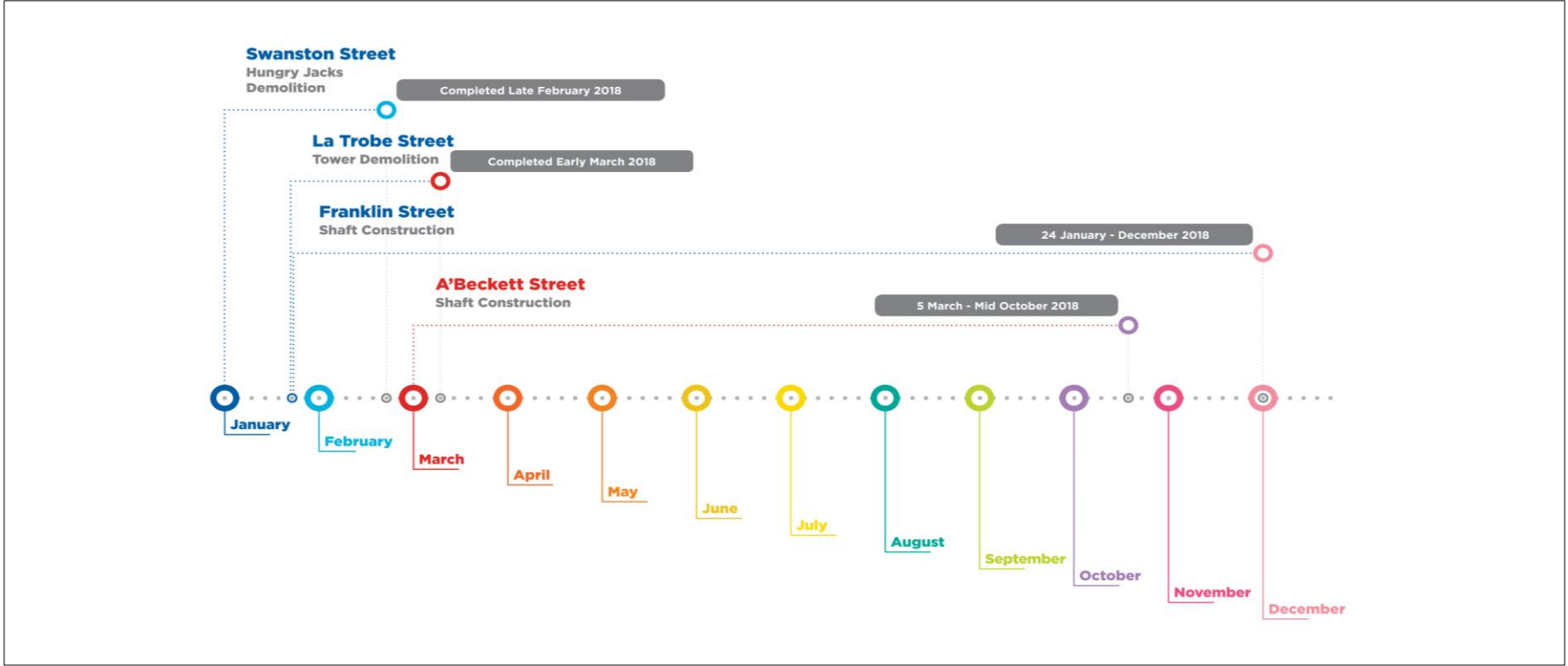
- Internal works completed
- Scaffolding in place around building, to be in place until further investigations are undertaken





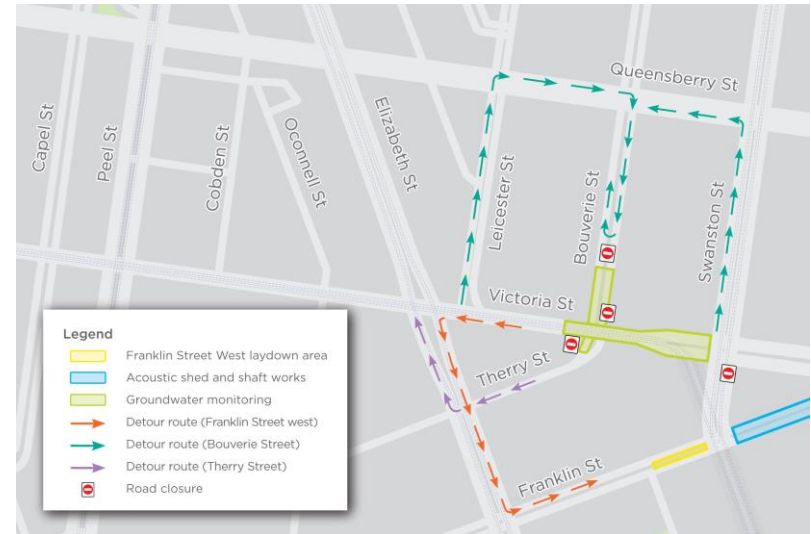
METRO TUNNEL EARLY WORKS STATE LIBRARY STATION UPDATE

STATE LIBRARY STATION TIMELINE – EARLY WORKS



GROUNDWATER MONITORING UPDATE

- Boreholes – complete
- Water main relocation - complete
- Boring works and connection - complete
- Drilling works to establish three new wells in the westbound lanes on Victoria Street – 1 remaining
- Investigate works for new wells in Franklin and Therry Streets - complete
- Trenching works in Bouverie Street to connect wells into system requiring occupation of kerbside carparks - complete
- Commissioning ground water monitoring system – temporary systems complete





CBD COMMUNITY REFERENCE GROUP DECEMBER 2018

CROSS YARRA PARTNERSHIP

We acknowledge the land on which the Metro Tunnel Project is being delivered, is the traditional land for the People of the Kulin Nation. We respect their spiritual beliefs and acknowledge their ongoing connection with their Country.

We would also like to pay our respect to Elders past, present and future.



ACKNOWLEDGEMENT TO COUNTRY



1. State Library Station Update
2. Town Hall Station Update
3. Waste Update
4. Piling at Flinders Quarter – Modelling
5. Site Safety + End of Year Note



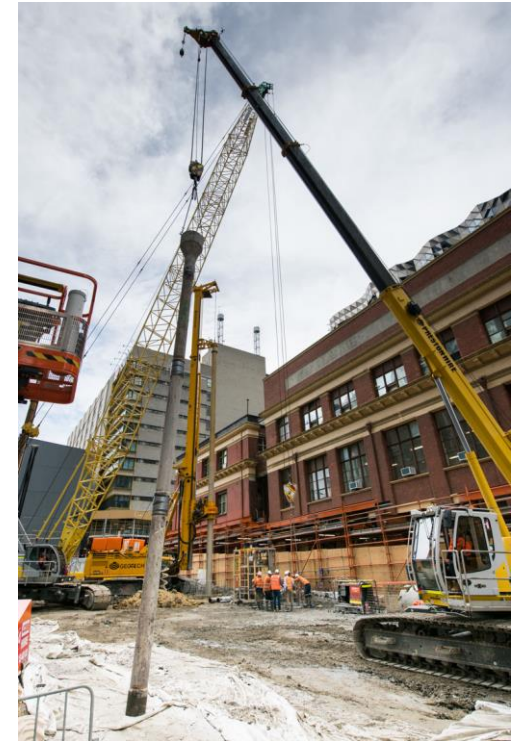
STATE LIBRARY STATION UPDATE

FRANKLIN STREET EAST UPDATE

Activity	Involves	Timing
Site establishment / handover	<ul style="list-style-type: none">• Delivering site sheds, materials and equipment• Intermittent footpath closures for crane lifts• Installing hoarding, and barriers around the work sites• Oversized deliveries	12 December – January 2019
Excavation	<ul style="list-style-type: none">• Pile break out• Shaft excavation	January – February 2019
Tunneling	<ul style="list-style-type: none">• Roadheader delivery• Adit excavation	February 2019

FRANKLIN STREET WEST UPDATE

Activity	Involves	Timing
Piling at shaft site	<ul style="list-style-type: none"> • 25% complete at approx. 35-45 m • Reinforcement deliveries • Concrete deliveries 	Ongoing – March 2019 <ul style="list-style-type: none"> • 7am – 6pm • 6pm – 10pm (concrete pouring)* <i>*if required</i>
Hoarding modifications	<ul style="list-style-type: none"> • Hoarding modifications around Franklin Street work site and laydown area 	Late January 2019
Tunneling and excavation preparation	<ul style="list-style-type: none"> • Capping beam works • Excavating 2 metres • Building a deck 	April – Q3 2019
Excavation	<ul style="list-style-type: none"> • Excavating 30m belowground 	Q3 2019 – Q1 2020



A'BECKETT STREET UPDATE

Activity	Involves	Timing
Site establishment / handover	<ul style="list-style-type: none">• Delivering materials and equipment• Constructing a covered walkway over Stewart Street for workers• Line-marking• Removing and installing traffic signs	Ongoing – January 2019
Tunneling	<ul style="list-style-type: none">• Cavern excavation	Ongoing



STEWART STREET TRAFFIC CHANGES



Indicative

MEET JANE (VIDEO)



LITTLE LA TROBE STREET UPDATE

Activity	Involves	Timing
Demolition	<ul style="list-style-type: none"> • Demolition of 18 Little La Trobe complete • Demolition of 12 and 16 Little La Trobe in January 2019 • New entrance to Literature Lane opened 	Ongoing – March 2019
Archaeology	<ul style="list-style-type: none"> • Using a small excavator and hand tools to excavate the area 	February – June 2019
Service relocation works	<ul style="list-style-type: none"> • Service works in Little La Trobe and Literature Lane prior to piling <ul style="list-style-type: none"> • Sewer relocation • Gas relocation 	Sewer relocation: February 2019 Gas relocation: July 2019

LITTLE LA TROBE STREET UPDATE





18 LITTLE LA TROBE STREET DEMOLITION (VIDEO)

LA TROBE STREET UPDATE

Activity	Involves	Timing
Archaeology	<ul style="list-style-type: none"> Using a small excavator and hand tools to excavate the area Demolition of archaeological footings* 	Completed <i>*awaiting HV consent</i>
Piling preparation	<ul style="list-style-type: none"> Slab and basement demolition (ongoing) Intermittent footpath closures on La Trobe Piling platform (crushed rock deliveries compaction) 	Ongoing – January 2019
Piling (Stage 1)	<ul style="list-style-type: none"> Piling – 85% complete Piling rig demobilisation Reinforcement and concrete deliveries 	Ongoing – 21 December 2019
Piling (Stage 2)	<ul style="list-style-type: none"> Piling rig delivery Reinforcement and concrete deliveries during piling 	February 2019 – Q2 2020
Excavation (Stage 1)	<ul style="list-style-type: none"> Excavating down 37 metres 	January 2019 (start)

LA TROBE STREET SITE PILING

Stage 2 Piling
(Perimeter) – 0%
complete



Stage 1 Piling –
85% complete

Indicative

SERVICE RELOCATIONS

Works	Involves	Indicative Start
Little La Trobe St – sewer relocation	<ul style="list-style-type: none"> Sewer relocation Little La Trobe Street closures 	February 2019 for approx. 1 month
La Trobe St	<ul style="list-style-type: none"> Stormwater, water main, low voltage, telecom relocations For Melbourne Central underground connection Various closures (e.g. slow lane, fast lane, full) over two month period 	March 2019 for approx. 2 months
Literature Ln – gas relocation	<ul style="list-style-type: none"> Gas relocation Literature Lane closure 	July 2019 for approx. 1 month



Indicative



TOWN HALL STATION UPDATE

FEDERATION SQUARE UPDATE

Activity	Involves	Timing
Flinders Street civil works	<ul style="list-style-type: none"> • Kerb alignment works • Tram pole relocations works 	Ongoing – 18 December 2018 (nightworks)
Demolition	<ul style="list-style-type: none"> • Demolition of the Western Shard (complete) • Demolition of the Federation Deck 	Ongoing – January 2019
Piling preparation	<ul style="list-style-type: none"> • Materials deliveries (crushed rock) and compaction • Mobilising piling rig and equipment 	February 2019



SHARD DEMOLITION (VIDEO)



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 Out of hours spoil removal required up to 7pm 	Ongoing
Piling	<ul style="list-style-type: none"> Reinforcement deliveries Piling works Concrete deliveries 	Ongoing – February 2019

**Further information to be released in January 2019*



PILING AT CITY SQUARE (VIDEO)



COLLINS STREET CONCRETE PUMP



Concrete pump installation is required for piling works. This involves:

- Pavement cutting and trenching
- Installing pipeline, pump, and plastic barriers
- Collins Street footpath closures during works

When:

- **Installation:** 10pm – 5am, Wednesday 9 – Friday 10 January 2019 TBC
- **Operation:** for 3-4 hours per day from Monday 14 – Monday 31 March, 2019

SWANSTON & COLLINS STREET CIVIL WORKS

Activity	Involves	Timing
Collins Street civil works*	<ul style="list-style-type: none">• Adjusting hoarding to install a new gate and driveway that accommodates larger vehicles• Utility relocations on the southern Collins Street footpath	Late January 2019 Nightworks

**Further information to be released in January 2019*



FLINDERS QUARTER UPDATE

Activity	Involves	Timing
Archaeology	<ul style="list-style-type: none"> Using a small excavator and hand tools to excavate the area Demolition of archaeology footings 	December 2018
Piling preparation works	<ul style="list-style-type: none"> Crushed rock deliveries Rock compaction Perimeter cutting Piling rig deliveries (nightworks) Cocker, Royston, and Scott Alley hoarding modification 	Ongoing – February 2019
Gantry and hoarding modifications	<ul style="list-style-type: none"> Royston Place, Scott Alley, and Cocker Alley hoarding modification Swanston Street gantry installation 	Early January 2019
Driveway works	<ul style="list-style-type: none"> Completing driveway works on Swanston Street and Flinders Street 	10 January – February 2019 Nightworks
Piling	<ul style="list-style-type: none"> Piling works Reinforcement deliveries Concrete deliveries 	March – Late September 2019



WASTE UPDATE

WASTE STRATEGY DEVELOPMENT

WE ARE
HERE



Early 2018: Visits to buildings adjacent to Town Hall Station OSD Building to understand current waste and delivery operations

Throughout 2018: Development of concept design and waste and logistics strategy

December 2018: Concept Design including revised waste and logistics strategy presentation to RPV

End of January 2019: Concept Design presentation to stakeholders and discussion

WASTE STRATEGY AND DESIGN DEVELOPMENT

- Design for efficient vehicle access to Royston Place and the loading dock being developed
- Finalising scope for station and oversite development stakeholder waste
- Ongoing liaison with City of Melbourne for combined precinct wide solution
- Discussion of precinct waste concept with potential users
- Provision of additional loading bays at street level (in Flinders Lane) to reduce dependence on Royston Place and for better logistics connectivity being investigated



PILING AT FLINDERS QUARTER MODELLING

NOISE MODELLING

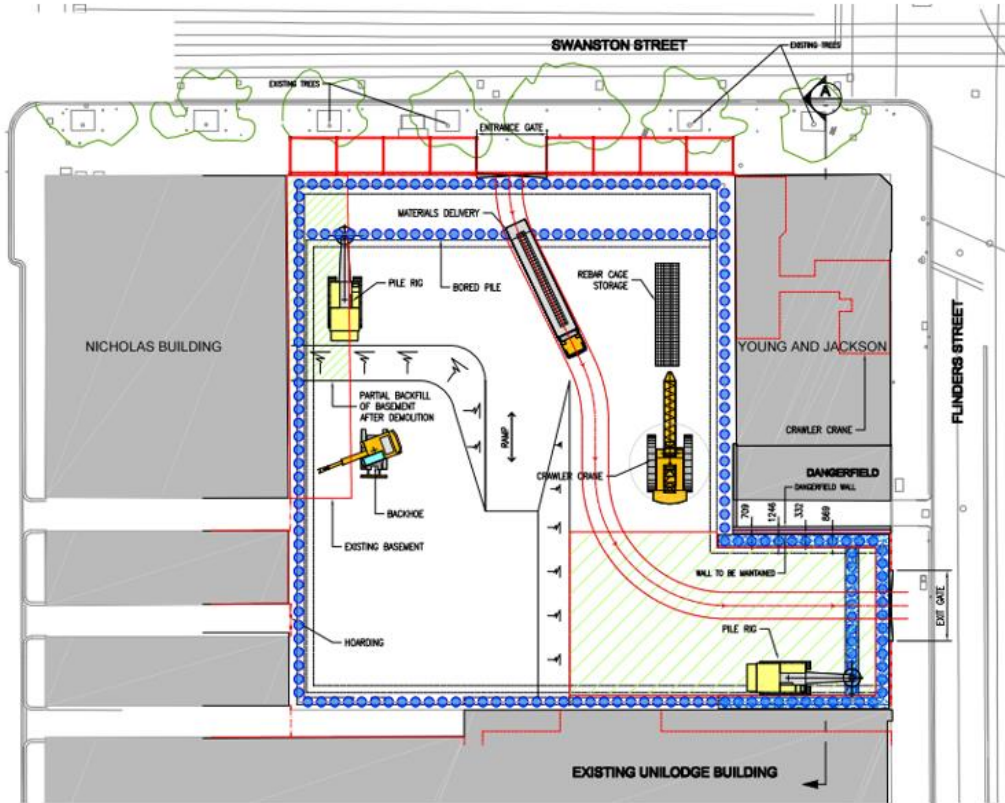
- Modelling undertaken based on equipment and buildings in the area
- Modelling indicates compliance for day works period
- Real time monitoring with Environment Team
- Noise similar to City Square piling works
- **Work hours:** 7am – 6pm, Monday to Friday
7am – 1pm, Saturdays

NOISE LEVELS EXPLAINED

Decibel	Approximate examples
10	A leaf falling
20	Rustles of autumnal leaves
30	Whispering
40	Living room, quiet classroom
50	Refrigerator working, car driving past
55	Percolating coffee-maker
60	Sound of human voice
70	Television set on loud, vacuum cleaner
75	Busy restaurant around lunchtime
80	Alarm clock, freight traffic, doorbell
85	Sawing, mixer

Decibel	Approximate examples
90	Truck close by, screaming, yelling, shouting
95	Drill, violin
100	Maximum iPod volume
105	Helicopter close by
110	Rock concert
120	Chainsaw
130	Thunder
140	Jackhammer
150	Fireworks
160	Shooting of a pistol or rifle
170	Avalanche firework
180	Rocket launch platform

NOISE MODELLING



Noise sensitive receiver	Predicted Mitigated Noise Level, dB Laeq(15min)
Ashdowne Apartments	79
Bible House	79
UniLodge	87
Flinders Street Station	75
Nicholas Building	78
Young and Jacksons	82
Ross House	80



SITE SAFETY & END OF YEAR NOTE

WE'RE TAKING A BREAK

- Please be advised that the Metro Tunnel Project will take a break from construction over the New Year period
- The last day of construction for 2018 will be **Friday 21 December**. Work will recommence on **Monday 7 January 2019**
- During the closure period, the site will be secured with regular security patrols and measures put in place to minimise the spread of dust
- Members of the project team will be on call during this time to directly respond to any issues that may arise.
- **Project Information Line will operate 24/7 during the break on 1800 105 105**