



KENSINGTON & ARDEN COMMUNITY REFERENCE GROUP

09 AUGUST 2018

ARDEN (NORTH MELBOURNE) PRECINCT UPDATE



CROSS YARRA PARTNERSHIP

Kim Mas, Arden Precinct Manager



WORKS UPDATE

Recent activities

- Commencement of piling
- Trimming of one tree on Laurens Street

Ongoing activities

- Diaphragm wall (D-wall) construction
- Concreting of internal haulage routes
- Modifications to entrance gates and hoarding
- Drain clearing and CCTV works
- Survey

D-WALL CONSTRUCTION





THREE MONTH LOOKAHEAD

- Ongoing site establishment, D-wall and piling works continuing

Upcoming

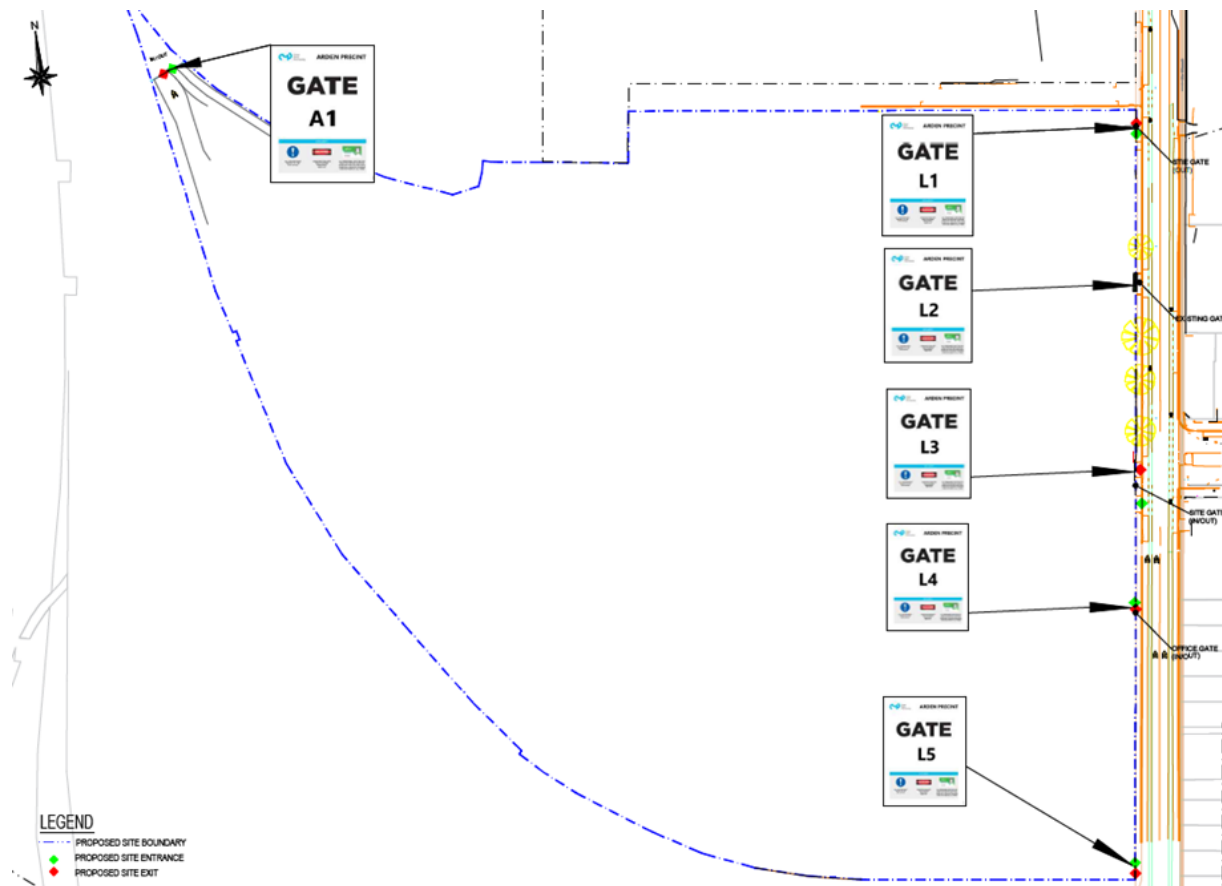
- Commencement of excavation (anticipated September)
 - Up to 70 trucks per day associated with excavation
 - Up to **120 trucks total** accessing the site for all construction activities
- Early works for concrete batching plant (anticipated September)



TRAFFIC MANAGEMENT

- Reduced speed limit on Laurens Street when required
- Traffic controllers at gates to assist with trucks/vehicles entering and exiting site safely
- All trucks outside regular construction hours to enter/exit the site via Arden Street entrance

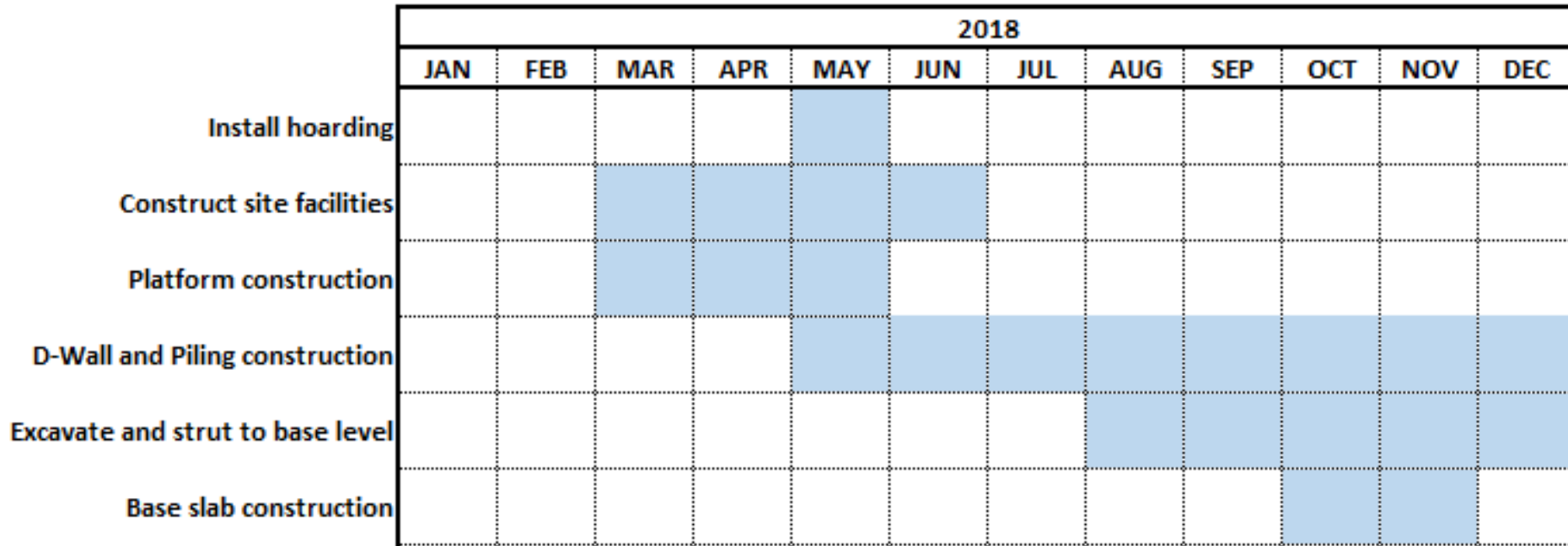
SITE ENTRANCES



Most frequently used:

- A01
- L03
- L04
- L05

2018 CONSTRUCTION PROGRAM





QUESTIONS?

KENSINGTON (WESTERN PORTAL) PRECINCT UPDATE



JOHN HOLLAND MANAGING CONTRACTOR - EARLY WORKS

Andrew Browne, Senior Project Engineer – Western Portal



WORKS COMPLETED

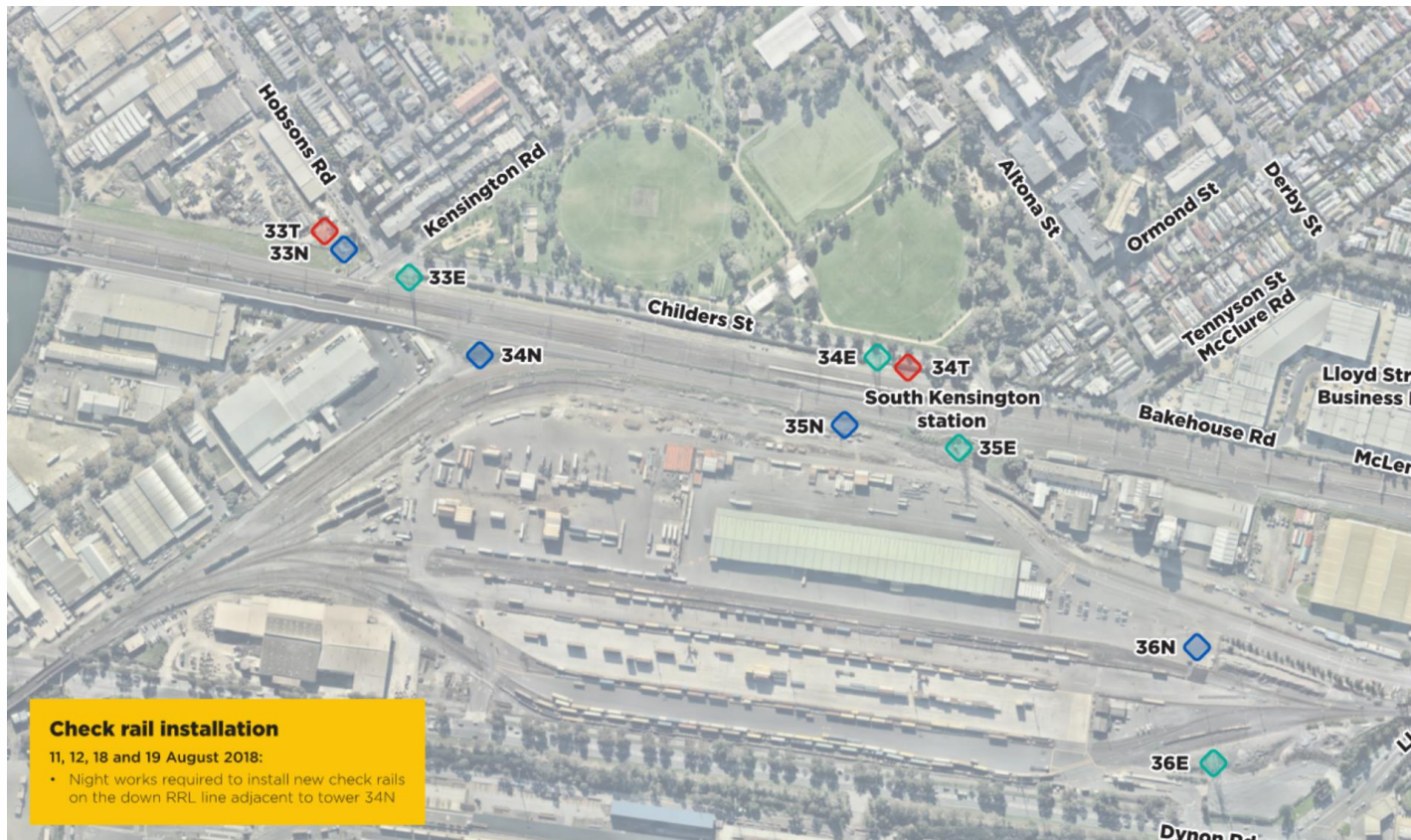
- The full 220kV relocation from tower 32 to 37 is complete, along with all tower demolition works



FINAL PHASE OF WORKS

- **Final site tidy up works (Hobsons Road)**
 - Ongoing until early September
- **Check rail installation on tracks near Kensington Road intersection**
 - Scheduled over two weekends **11-12 and 18-19 August**
 - Additional weekend works on 25-26 August may be required for contingency
 - Works to occur during rail ALBF (night works)

FINAL PHASE OF WORKS



Check rail installation

11, 12, 18 and 19 August 2018:

- Night works required to install new check rails on the down RRL line adjacent to tower 34N

**The project team would like to
thank everyone for their patience
during this phase of the Metro Tunnel
Project in Kensington**



QUESTIONS?



CROSS YARRA PARTNERSHIP

Denis Joyce, Western Portal Precinct Manager

James Hamilton, Environment Manager West



WORKS UPDATE

- Site establishment (ongoing)
- Installation of hoarding at 135 Ormond Street
- Completion of two planned rail occupations (6-9 and 13-16 July)
 - Tree removal on southern side of Childers Street
 - Installation of rail delineation fencing
 - Sheet piling to protect existing rail infrastructure
 - Earthworks
 - Noise levels as per indicative modelling (max 68 dBA recorded)

RAIL OCCUPATION WORKS



RAIL OCCUPATION WORKS





WORKS UPDATE CONT.

- Soil sampling and site investigations (groundwater monitoring wells, gas main proving)
- Commenced construction of temporary roundabout (ongoing)
- Closure of Childers Street
 - Barriers installed Tuesday 7 August
 - Local resident and LSBE over-height vehicle access maintained
 - Access passes delivered to Childers and Tennyson (south of truncation) street residents



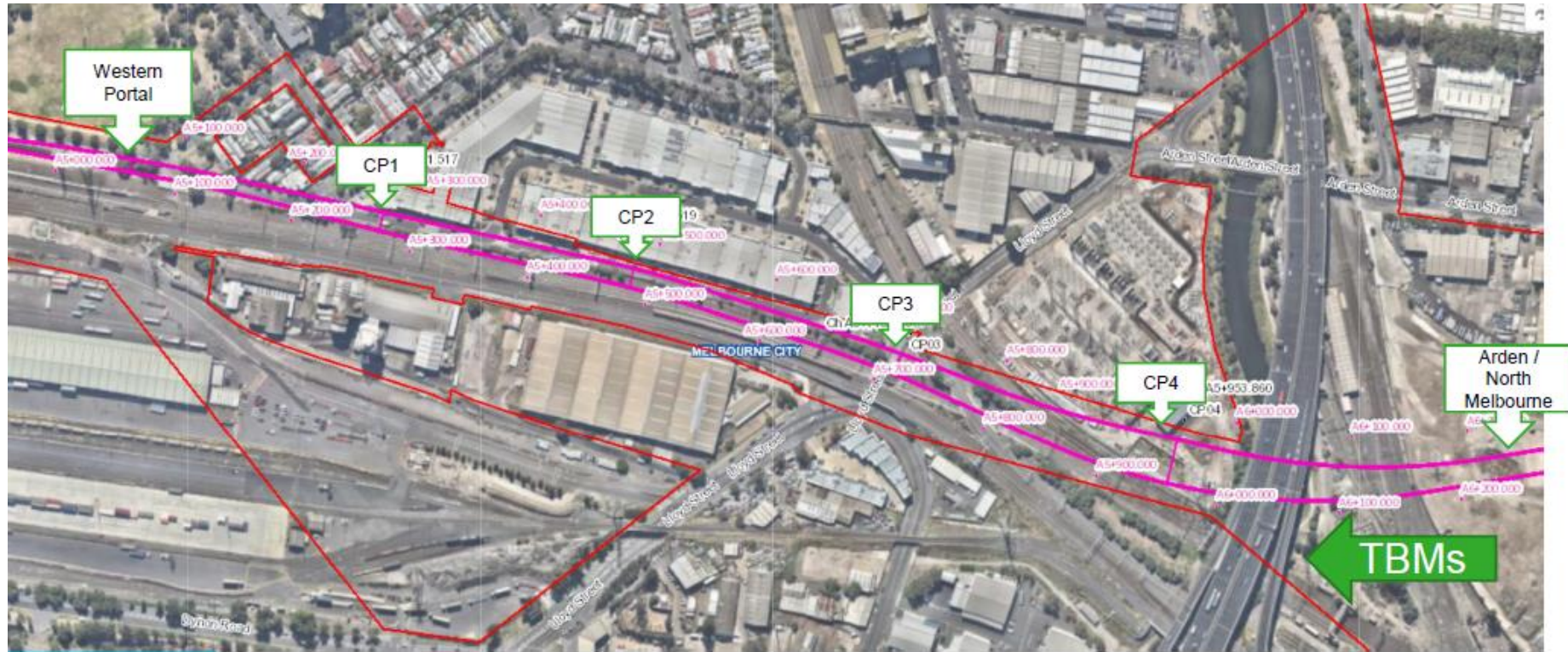
THREE MONTH LOOKAHEAD

- Site establishment (ongoing)
- Site fencing and hoarding
- Construction of piling work areas
- Soil sampling & site investigations (groundwater monitoring wells, gas main proving)
- Works to construct temporary roundabout
- Modifications to road network for business estate over-height vehicle detour
- Property condition surveys
- Secant piling
- Earthworks
- Underground service protection / modifications
- Cross passage ground improvements



CROSS PASSAGES

- Passages between the two tunnels
- Linked to emergency evacuation
- Constructed underground/mined
- In some locations where poor ground conditions have been identified, ground improvement works are required
- Work duration approx. 4 to 8 months per site
- Must be completed in advance of tunnel boring
- Four locations between the western tunnel entrance and North Melbourne Station identified as requiring ground improvement works ahead of tunneling



2018 CONSTRUCTION PROGRAM

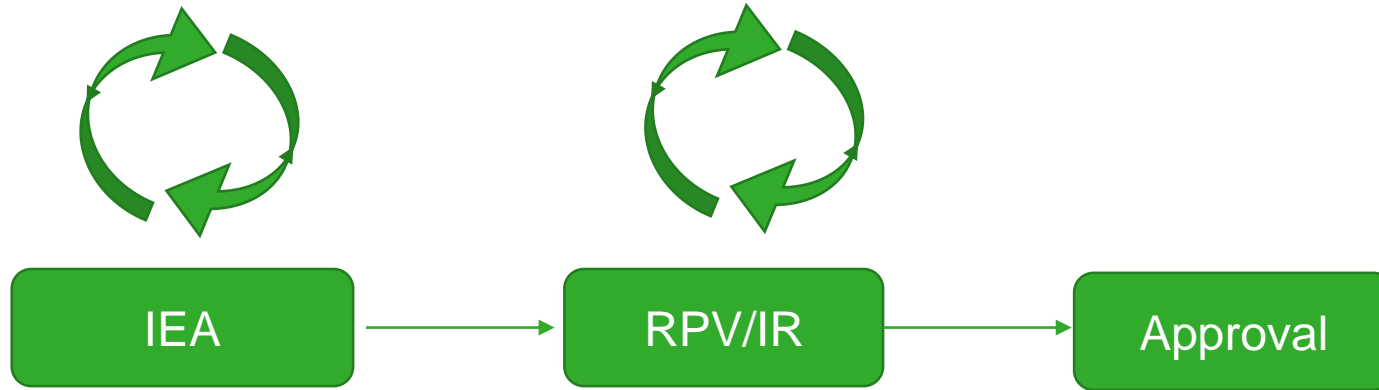
| Activity | July | August | September | October | November | December | January (2019) |
|----------------------------------|------|--------|-----------|---------|----------|----------|----------------|
| Install hoarding | | | | | | | |
| Construct site and amenities | | | | | | | |
| Piling platform | | | | | | | |
| Piling construction | | | | | | | |
| Gas main works | | | | | | | |
| Excavation | | | | | | | |
| Cross passage ground improvement | | | | | | | |



ENVIRONMENTAL MANAGEMENT

ENVIRONMENTAL MANAGEMENT

Environmental Management Plans



- Onsite management
 - Weekly inspections – internal
 - Monthly reporting of data
 - Quarterly audits – IEA



DUST MANAGEMENT

Air Quality Management Plan

- Air Quality Impact Assessment

Control measures

- Watering of exposed areas via water cart / hoses
- Limit stockpiling on site – cover if required.
- Stabilised site entries and exits
- All trucks transporting soil to and from site will be covered
- Daily monitoring of meteorological conditions on site
- Air quality monitoring



SPOIL MANAGEMENT

Spoil Management Plan

- Soil sampling and classification using EPA guidelines
- Transported using covered trucks
- Transported to pre-determined location and facility that is licensed to accept each type of waste



QUESTIONS?



DISCUSSION / OTHER BUSINESS



Western Portal

South Kensington

North Melbourne

Parkville

State Library

Town Hall

Anzac

Eastern Portal

The existing 'North Melbourne' station will be renamed West Melbourne.

West Melbourne

Melbourne Central

Flagstaff

Southern Cross

Flinders Street

Parliament

Richmond

South Yarra

Sunbury Line

Cranbourne / Pakenham Line