

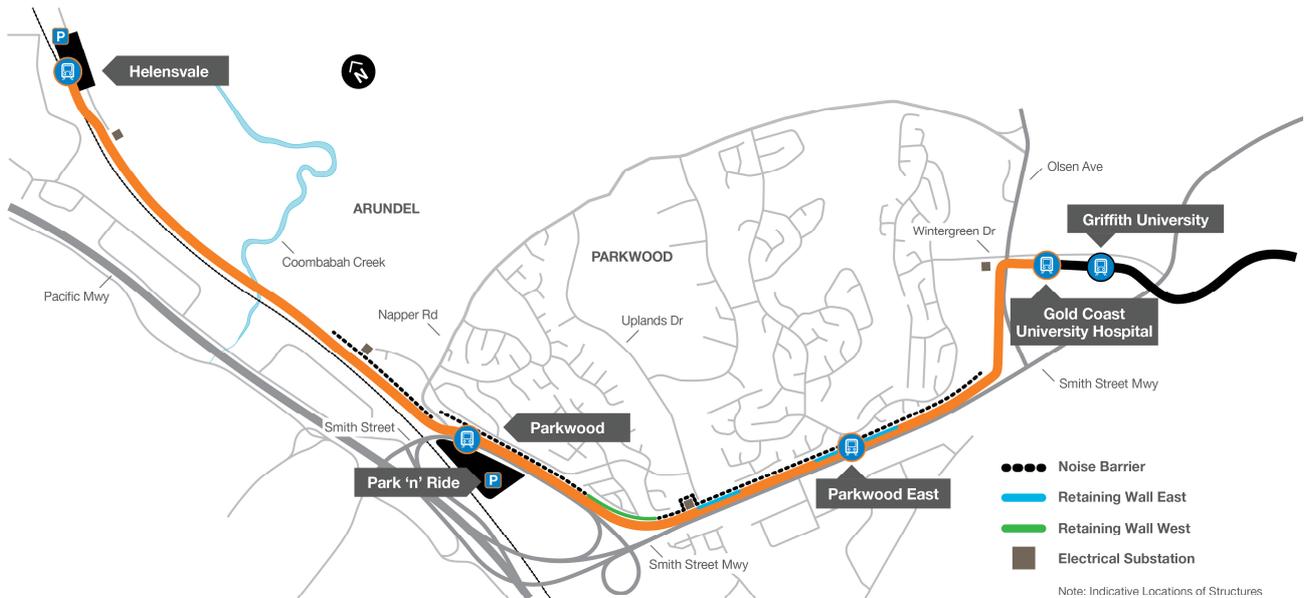


## Works Notification

August 2016

# Gold Coast Light Rail Stage 2

## NOISE BARRIERS AND RETAINING WALLS – PARKWOOD



From August 2016, CPB Contractors will begin works in readiness for construction of noise barriers and retaining walls that will be progressively installed along the project corridor. These works will take approximately six months to complete, weather permitting.

### Works will involve

#### Noise barrier: (Smith Street and Smith Street Motorway)

- Survey, excavation activities, removal of existing timber noise barriers and relocation of utility services i.e. sewer and stormwater drainage to prepare the land for the placement of the noise barriers and retaining walls.
- Construction of site entry points for the delivery of equipment and vehicle access into the corridor.
- Delivery of machinery such as cranes, elevated platforms, piling machines, drill rigs, concrete trucks and pumps and excavators.
- Drilling post holes to required depth, placing steel posts into position with a crane and pouring concrete into the post hole.
- Cranes will lift the concrete panels into place to the required height.

#### Retaining wall east: (Parkwood East station and Uplands Drive)

- Before the retaining wall can be constructed, earthworks must occur to prepare the area for piling. Two piling machines will be required in these areas during construction.
- Piling is a method to excavate deep round holes. The method involves the installation of a steel cylinder which is vibrated down to the required depth. Rotating blades (an auger) are inserted into the steel cylinder to remove the dirt to form a hole. This process can be noisy when the auger is lifted out of the excavation several times to shake soil off the blades.
- A crane will lower a reinforced cylinder structure into the newly created hole.
- Concrete is then poured down the hole and as the concrete fills the hole, a crane slowly removes the steel cylinder. Once the concrete is cured, jackhammering is undertaken to remove the concrete around the top of the reinforced steel cylinder. This activity can be extremely noisy.

- To join the top of the newly installed piles, formwork and concrete work is undertaken, this is known as a capping beam.
- For additional reinforcement, rock bolts are driven to anchor the retaining wall into the earth. This activity can be noisy.
- Precast concrete panels known as fascia panel or shotcrete (a sprayed concrete finish) completes the retaining wall construction.

### Retaining wall west: (Drysdale Lane and Jamieson Drive)

- Excavation of soil to prepare a retaining wall base.
- Formwork and concrete work to construct the retaining walls foundation.
- Delivery of concrete panels that are lifted onto the newly constructed concrete base. Panels are placed using a crane. You may notice a whistle during the placing of panels; this is a communication method between the crane operator and the workforce assisting with the placement of panels.
- Once the initial panels are placed and locked into position, an excavator will backfill the area with soil to allow for the placement of subsequent layers of panels.

### What to expect

Construction work will occur between 7:00am and 6:00pm, Monday to Saturday. Workers may arrive onsite between 6:00am and 7:00am to prepare for the day's activities.

During construction, you may notice some changes around your local area such as:

- Increased noise levels and vibration from machinery.
- Dust associated with construction activities, water trucks are onsite to minimise dust.
- Increased construction vehicle movements within the project corridor.

Every effort will be made to keep disruption to a minimum for residents in close proximity to this work. We appreciate your patience during these important works and will continue to update you as work progresses.

### Contact the project team



If you have any questions or would like to register for more information, please contact the CPB Contractors Project Team on **1800 425 799\*** or email **gclrstage2@cpbcon.com.au**. Visit **www.gclrstage2.com.au** anytime for more information and updates.

*\* Free call within Australia. Call charges may apply from mobile or pay phones.*

Subscribing to receive project updates is a convenient way to obtain information about the project and work happening in your area. To subscribe, simply visit our website and look for the 'sign up form' on the 'contact' page.

### Project information

Gold Coast Light Rail Stage 2 involves the design and construction of a new 7.3km route which runs from Helensvale heavy rail station adjacent to the Gold Coast Line, then adjacent to the Smith Street Motorway to connect with Stage 1 at the Gold Coast University Hospital light rail station.

GoldLinQ's construction contractor CPB Contractors commenced construction in July 2016 and are committed to completing the project in time for the Gold Coast 2018 Commonwealth Games.



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Gold Coast Light Rail



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