Parramatta Light Rail (Stage 1)
Westmead to Carlingford via Parramatta CBD and Camellia

Industry briefing
Message from the Minister

Today marks another important milestone for Parramatta Light Rail. The NSW Government recognises that some of the best expertise and experience in the construction of major infrastructure projects lies in the private sector. No longer do we place major infrastructure projects in the hands of a ‘Department of Public Works’. Rather, we engage with industry and procure its unique skills to construct and deliver.

Since the first Parramatta Light Rail industry briefing in March 2016, we have made collaboration with industry a priority. Industry has helped us develop a delivery model for the project that will provide clear accountabilities and align scope to proponents’ specialisations. Industry engagement has also helped define some of the technical aspects of the project, which will place Parramatta Light Rail at the cutting edge of this technology in Australia.

I am grateful to all the participants who have taken part in these discussions for their contributions and valuable insight. I believe that this engagement, together with the collaborative approach to procurement, will allow us to create a light rail system that will help to transform this great city.
Creating Australia’s next great city

As Sydney’s population grows from 4.3 million people in 2016 to 8 million people in 2056, a metropolis focused on a single eastern Sydney CBD will not meet the changing demographic needs of Greater Sydney. To support this growing population, the NSW Government has a vision of Greater Sydney as a metropolis of three cities, with Western Sydney Airport the anchor for the Western City, the Sydney CBD for the Eastern City, and Greater Parramatta for the Central City.

At the heart of the Central City is the Greater Parramatta to Olympic Peninsula (GPOP) priority growth area, a region spanning 13 kilometres east to west from Strathfield to Westmead and extending seven kilometres north to south from Carlingford to Granville. Health, education, administration, finance and business services will drive the economy in this developing city.

The GPOP priority growth area has the potential to attract people from all parts of Sydney - to visit, work, live and play. Yet this potential is currently limited by a lack of transport connectivity and accessibility. Major precincts are separated by geographical and man-made features such as the Parramatta River, heavy rail lines and major roads which hinder movement between them. While progress has been made to address infrequent, inaccessible or indirect public transport services, the government recognises more work needs to be done to better connect communities.

To fulfil its potential, Parramatta needs to become a 30-minute city, where residents can easily access educational, employment and leisure opportunities in the region in less than half an hour. Parramatta Light Rail will help to achieve this, with regular services linking existing, growing and new precincts. By 2026, 130,000 people will live within walking distance of light rail stops in Stage 1, increasing to 180,000 by 2041 – helping to move people around Australia’s next great city.
About Parramatta Light Rail Stage 1

Parramatta Light Rail Stage 1 will connect Westmead to Carlingford via Parramatta CBD with a two-way track spanning 12 kilometres. The system will link Parramatta CBD and Parramatta’s Transport Interchange to the Westmead Health precinct, Parramatta North Urban Transformation Program, the new Western Sydney Stadium, the new Powerhouse Museum and Riverside Theatres Cultural Hub, the private and social housing redevelopment at Telopea, Rosehill Gardens Racecourse and three Western Sydney University campuses.

The key features of the project include:

- Reliable services seven days a week from 5am until 1am, including approximately every 7.5 minutes in the peak between 7am and 7pm
- Modern light rail vehicles (LRVs) with capacity for up to 300 customers
- Sixteen stops each 45 metres long and including a combination of side and island platforms depending on the requirements at each location
- Interchanges with existing rail, bus and ferry facilities at Westmead, Parramatta CBD and Carlingford
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD (on sections of Church Street and Macquarie Street)
- Stabling and maintenance facility and operations control centre located in Camellia for LRVs
- Road network capacity improvements to accommodate the project
- Repurposing of the single track Carlingford rail line to support light rail operations
- Active transport corridors, including along the former Carlingford Line.
Stage 1 delivery model

Parramatta Light Rail Stage 1 will be delivered through four separately procured works packages, which will allow Transport for NSW to develop collaborative partnerships with the private sector to design, build, operate and maintain rail in the complex and changing environment of Greater Parramatta. This delivery model will ensure that there are clear accountabilities, appropriate allocation and sharing of risks and that scope is aligned to discipline competence, supported by collaborative governance arrangements.

Early works

Transport for NSW owns a site at 6 Grand Avenue, Camellia, which will house the stabling and maintenance facility and the operations control centre for Parramatta Light Rail. The site has a long history of chemical manufacturing and other land uses that have resulted in significant contamination. The scope of the early works package is to undertake remediation of the site to meet Transport for NSW’s regulatory requirements as the owner, as well as ensuring that the site is made fit for purpose for its future use. Planning approvals will be obtained through a Review of Environmental Factors process.

Enabling works

The enabling works scope of works includes:

- Road works that will provide traffic capacity improvements for the inner ring road system to support the project
- Storm water drainage, where early construction will benefit or de-risk main works contracts
- Interfaces with other Government projects, where early works are required.

It is intended that the early works and enabling works packages will be completed prior to the start of construction of the main works.
Main works

The main works package scope split is shown in the diagram below.

<table>
<thead>
<tr>
<th>Works Component</th>
<th>Track and Civils</th>
<th>Stays</th>
<th>Systems &amp; Power</th>
<th>Stabling and maintenance facility</th>
<th>LRV</th>
<th>Operations &amp; maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In corridor roadworks</td>
<td>Bridge works</td>
<td>Stops civil works</td>
<td>Signalling (Road &amp; Rail)</td>
<td>Depot works (incl. civils)</td>
<td>LRV supply</td>
<td>Light rail operations</td>
</tr>
<tr>
<td>Track and track slab</td>
<td>Earthworks, Structures</td>
<td>Systems / communications</td>
<td>Power supply</td>
<td>Stabling</td>
<td>Maintenance</td>
<td>Maintenance</td>
</tr>
<tr>
<td>Civil infrastructure for systems</td>
<td>Stormwater drainage</td>
<td>Finishings / Fitout</td>
<td>HV/LV substations</td>
<td>Maintenance and control buildings / facilities</td>
<td></td>
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<tr>
<td>Property adjustments</td>
<td>Rail decommissioning</td>
<td>Precincts / Urban Design</td>
<td>Operational control system</td>
<td>Communications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service relocations / protection</td>
<td>Active transport</td>
<td>Passenger information systems</td>
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</tr>
</tbody>
</table>

Design integration

Infrastructure package

The infrastructure package will include design and construction of works to track level comprising:

- Design integration
- Structures and roads
- Services relocations
- Track slab and track
- Stop civil works and placemaking
- Infrastructure design
- Active transport.

Supply, operate and maintain (SOM) package

The supply, operate and maintain package will include system and above-rail level works comprising:

- LRVs
- Systems, stops fitouts and operational elements
- Stabling & Maintenance facility
- Operations and maintenance of the Stage 1 system and infrastructure
- Systems integration
- Testing and commissioning.
Approach to procurement

The two main works packages will be procured separately, with highly interactive processes for both packages, to ensure operations and customer input to the Infrastructure design. Transport for NSW is working with Infrastructure NSW to develop processes to reduce tendering costs and provide greater certainty and value to proponents and NSW Government. These could include:

- Early Access to the Project Data Room
- Interactive processes
- Reducing the amount of documentation by requiring submission of only key requirements and management plans
- Considering the costs of Tender design in key areas that contribute to higher pricing certainty and optimal risk allocation
- Risk share and incentive mechanisms in areas of scope uncertainty.

Information about the Parramatta Light Rail procurement processes will be provided on the NSW Government eTendering website. Target milestones for procurement of Stage 1 are shown in the table over.

Stage 1 Delivery Program

TfNSW is seeking PLR Stage 1 to be declared Critical State Infrastructure under the Environmental Planning and Assessment Act. The Parramatta Light Rail (Stage 1) Environmental Impact Statement was released for public display on 23 August 2017 and will be on exhibition until 23 October 2017. It is expected that planning approval will be received in Quarter 2 of 2018. This would allow enabling works to commence in 2018 and the main works to get underway in 2019, with Parramatta Light Rail Stage 1 operating by 2023. The detailed delivery program would be developed further in consultation with delivery partners.

### Timeline for procurement

<table>
<thead>
<tr>
<th>Works Package</th>
<th>EOI released (target)</th>
<th>RFP released (target)</th>
<th>Contract award (target)</th>
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</thead>
<tbody>
<tr>
<td>Early Works</td>
<td>Aug 2017</td>
<td>Oct 2017</td>
<td>Apr 2018</td>
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<tr>
<td>Enabling Works</td>
<td>Sep/Oct 2017</td>
<td>Nov/Dec 2017</td>
<td>May/Jun 2018</td>
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<tr>
<td>SOM Package Works</td>
<td>Sep 2017</td>
<td>Jan 2018</td>
<td>Sep/Oct 2018</td>
</tr>
<tr>
<td>Infrastructure Package Works</td>
<td>Sep 2017</td>
<td>Feb 2018</td>
<td>Q4 2018</td>
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Contact us

For up-to-date information on Parramatta Light Rail, visit www.parramattalightrail.nsw.gov.au

If you have any queries, call us on 1800 684 490 or e-mail us at parramattalightrail@transport.nsw.gov.au

Find out more at

www.parramattalightrail.nsw.gov.au