

# Appendix E

## Flexibility provisions



# Parramatta Light Rail Stage 2

## Response to Submissions



The design and construction method presented in the Environmental Impact Statement (EIS) and Amendment Report define a project that provides a sound basis for assessing the potential impacts of the project. However, the project would also be subject to ongoing refinement during further design development. Section 23.3.2 of the EIS describes the process that the project would follow where refinements are identified.

Flexibility has also been provided within the EIS and Amendment Report assessments. Having a reasonable degree of design and construction methodology flexibility for particular elements of the project in the assessment and approvals process can:

- allow improvements to the project design and enhance economic benefits
- allow improvements to minimise impacts to the environment and community, including in the event of unexpected heritage, contamination and utility finds
- allow the project to respond to evolving light rail design and technology, including improvements in track, power and light rail vehicle technology and in construction techniques
- enable innovations by the construction contractor in light rail installation techniques and technology
- allow consideration of changes resulting from consultation with government agencies, stakeholders and the wider community to be addressed without the need for additional assessment or approvals and potential associated delays
- allow integration with existing and future land uses, including master planning for identified urban renewal areas
- enable the project to benefit from the lessons learned from other similar projects (such as Parramatta Light Rail Stage 1, CBD and South East Light Rail and Newcastle Light Rail) or from industry innovation.

A 'realistic worst case' impact approach was adopted for the purposes of the EIS and Amendment Report, providing a level of flexibility without compromising the level of impact assessment. This assessment approach was adopted for project elements where there is a reasonable potential for design changes to occur. For each element Table E.1 outlines the maximum degree of flexibility provided for in the EIS and Amendment Report, along with the performance requirements for the element where applicable.

A flexible approach would enable the acceptance of changes to the project where they meet the performance requirements in Table E.1. Where design or construction methodology change falls outside the level of flexibility provided in Table E.1, a consistency review would be undertaken to assess the refinement in accordance with section 23.3.2 of the EIS. If the proposed refinement is inconsistent with the above, it would be considered a project modification. Approval for any modifications would be sought in accordance with the requirements of Division 5.2 of the *Environmental Planning and Assessment Act 1979*. This proposed approach to design and construction changes and project flexibility is shown in Figure E.1.

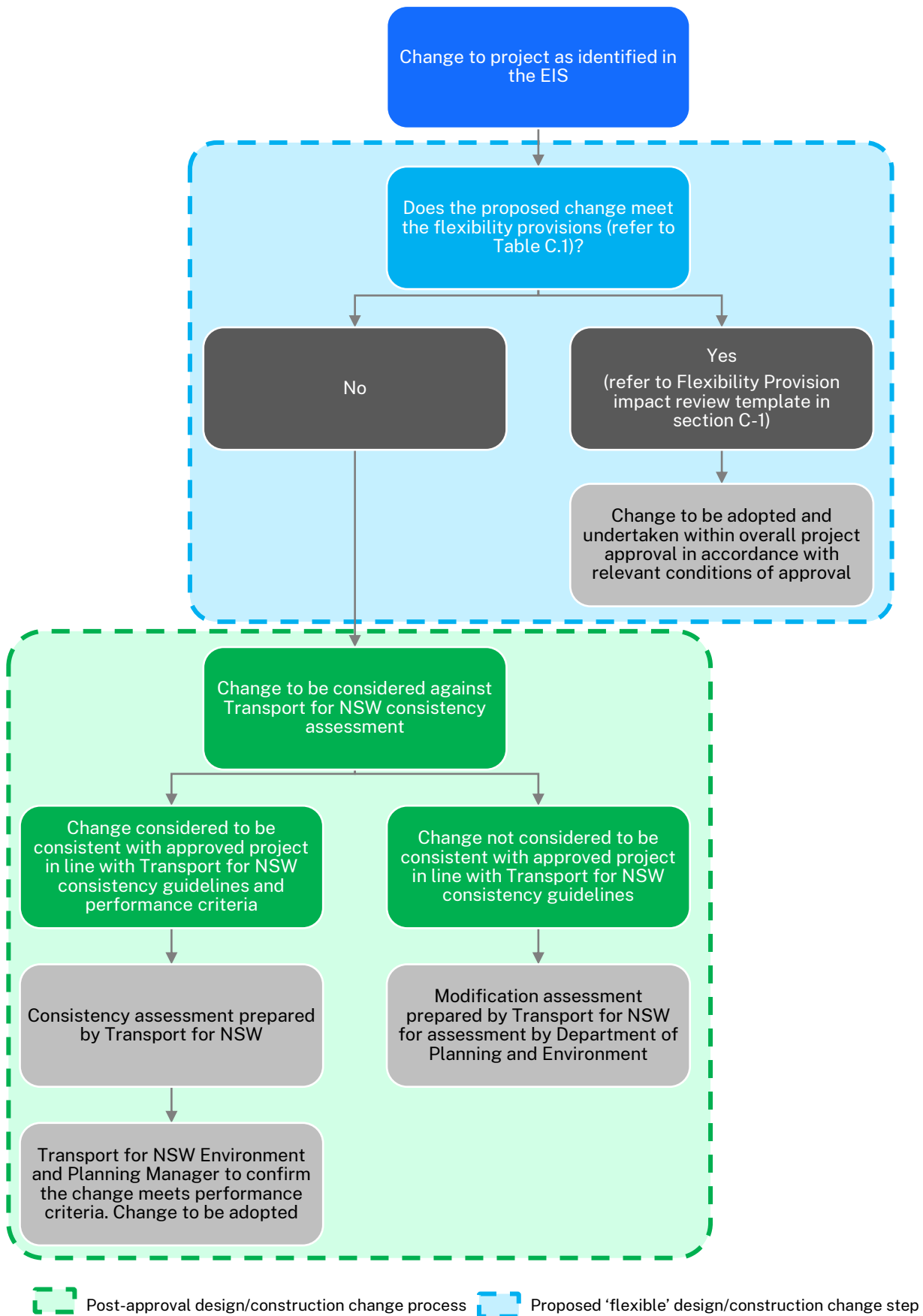


Figure E.1 Proposed approach to design and construction changes and project flexibility

Table E.1 Flexibility provided for project elements within the EIS and Amendment Report assessment

Project Element	Flexibility Provision
Stop length	Minor changes (+/- 10 metres) to a stop length permitted where determined to have no more than a minor impact.
Stop arrangement (side or island platform)	Changes to a stop arrangement (side or island platform) permitted where determined to have no more than a minor impact.
Stop location	Minor relocation (+/- 20 metres) to stop location permitted where determined to have no more than a minor impact and the new location does not have a material impact on new receivers compared with the impact(s) assessed in the EIS and Amendment Report.
Utility and lighting works	These works are permitted within 1 km of the project site boundary where determined by the environmental representative to have no more than a minor impact.
Stormwater and flood management works including water sensitive urban design	These works are permitted within 1 km of the project site boundary where determined by the environmental representative to have no more than a minor impact.
Property adjustment works, including changes to fencing, retaining walls, driveways, footpaths, trees and other landscaping, bin storage, water meters and letter boxes	These works are permitted within properties adjacent to the project site boundary.
Minor road network changes including off-corridor works and public transport network changes, such as line marking, car parking adjustments, signal changes, adjustments to footpaths and active transport links, kerb adjustments and bus stops	<p>Minor road network changes in the vicinity of the project site boundary are permitted to address potential traffic impacts associated with light rail. In order to be considered minor, these changes must meet the following parameters:</p> <ul style="list-style-type: none"> <li>• Environmental impacts are manageable through the implementation of environmental measures as detailed in the CEMP and/or the OEMP as relevant.</li> <li>• No acquisition (temporary or permanent) of property where a negotiated purchase from the property owner is not possible.</li> <li>• Does not involve the removal of a tree or other vegetation which is listed as a threatened species or ecological community in the <i>Biodiversity Conservation Act 2016</i> and/or <i>Environment Protection and Biodiversity Conservation Act 1999</i>.</li> <li>• No direct impact and no more than a minor indirect impact on a listed heritage item.</li> <li>• Access arrangements are provided for any impacted road intersection and, where relevant, for property access in consultation with the affected party(ies).</li> <li>• Does not result in operational impacts that would have more than a minor adverse traffic impact (including on intersection performance, road way capacity, bus operations and active transport network) as assessed in the EIS and Amendment Report.</li> </ul>
Tree planting as part of the project Tree Offset Strategy	These works are permitted within the City of Parramatta Local Government Area, including Sydney Olympic Park, where they are identified in the Tree Offset Strategy, have no more than a minor impact, and are accepted by the relevant asset owner/local government authority.
New open space at Atkins Road stop and open space improvements at Eric Primrose Reserve and Ken Newman Park	<p>Minor changes to the configuration of the open space design are permitted within the project site boundary where determined to have no greater impact than that assessed in the EIS and Amendment Report.</p> <p>Open space improvements are permitted within 200 metres of the project site boundary where agreed with the asset owner and determined by the environmental representative to have no more than a minor impact.</p>

## Flexibility Provision impact review template

### Proposed works and justification

This flexibility provision impact review is required to demonstrate compliance with the conditions of approval, the EIS and Amendment Report. A description of the activity is listed below in Table E.2 and a review of impacts is contained in the following section.

Table E.2 Description of proposed works

Description	Overview										
Location(s) of works	<i>Include a description of the location of the design or construction methodology change, including a map of the works location.</i>										
Scope	<i>Include a description of the scope of the design or construction methodology change</i>										
Flexibility provision	<p>The works meet the flexibility provisions of the following project element:</p> <table border="0"> <tr> <td><input type="checkbox"/> Stop arrangement (side or island platform)</td> <td><input type="checkbox"/> Minor road network changes</td> </tr> <tr> <td><input type="checkbox"/> Stop location</td> <td><input type="checkbox"/> Tree planting as part of the project Tree Offset Strategy</td> </tr> <tr> <td><input type="checkbox"/> Utility and lighting works</td> <td><input type="checkbox"/> New open space at Atkins Road stop and open space improvements at Eric Primrose Reserve and Ken Newman Park</td> </tr> <tr> <td><input type="checkbox"/> Stormwater and flood management works</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Property adjustment works</td> <td></td> </tr> </table>	<input type="checkbox"/> Stop arrangement (side or island platform)	<input type="checkbox"/> Minor road network changes	<input type="checkbox"/> Stop location	<input type="checkbox"/> Tree planting as part of the project Tree Offset Strategy	<input type="checkbox"/> Utility and lighting works	<input type="checkbox"/> New open space at Atkins Road stop and open space improvements at Eric Primrose Reserve and Ken Newman Park	<input type="checkbox"/> Stormwater and flood management works		<input type="checkbox"/> Property adjustment works	
<input type="checkbox"/> Stop arrangement (side or island platform)	<input type="checkbox"/> Minor road network changes										
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<input type="checkbox"/> Utility and lighting works	<input type="checkbox"/> New open space at Atkins Road stop and open space improvements at Eric Primrose Reserve and Ken Newman Park										
<input type="checkbox"/> Stormwater and flood management works											
<input type="checkbox"/> Property adjustment works											
Timeframe for works	<i>Include whether the works will occur within the construction program in the environmental impact statement and revised in the amendment report</i>										
Work hours											
Workforce											
Equipment/machinery											

### Impact review

Table E.3 provides a review of the potential environmental and community impacts of the proposed works.

Table E.3 Impact review

Environmental review / issue	Yes/No	Description of impacts / safeguards
Will the proposal take place outside of the project site boundary? If yes, does the proposal meet the flexibility provision?		
Where works are outside the project site boundary, has the project team consulted with the directly affected landowner / landholder and received their agreement to complete the works?		
Will the works take longer than two weeks to complete?		
Will the works result in highly noise affected receivers?		
Will the works be completed out of hours?		
Will the works impact an endangered ecological community or threatened species?		
Will works impact on native vegetation?		

Environmental review / issue	Yes/No	Description of impacts / safeguards
Will the works impact on habitat trees?		
Will the works include clearing of non-endangered ecological communities? What is the area of impact?		
Will noise and vibration impacts on sensitive receivers be greater than that predicted in the EIS and Amendment Report?		
Will the activity be located adjacent to or in close proximity to sensitive receivers?		
Will works impact on an Aboriginal or non-Aboriginal heritage item in addition to that assessed in the EIS and Amendment Report?		
Are works within 10 metres of a watercourse?		
Are works in an area of known contamination?		
Will the works result in long term traffic impacts?		
Are works within the extent of condition reports for existing roads, property and infrastructure?		
Will the works results in visual impacts to sensitive receivers?		
Will the works involve significant earthworks?		

### Conclusions/recommendations

Based on the above impact review, and with reference to EIS and Amendment Report:

	The proposed design/construction change:
<input type="checkbox"/> Yes / <input type="checkbox"/> No	• Is consistent with the EIS and Amendment Report
<input type="checkbox"/> Yes / <input type="checkbox"/> No	• Meets the flexibility provisions in Table E.1
<input type="checkbox"/> Yes / <input type="checkbox"/> No	• Would have no more than a minor impact on the environment and community.

### Safeguards

The updated mitigation measures in the Submissions Report would be employed as a minimum.

### Certification

The above information provides a true and fair review of the proposed works.

**Prepared by (signed):**

Date:	
Name:	
Position:	

**Reviewed by Transport for NSW (signed):**

Date:	
Name:	
Position:	

The proposed works meet the flexibility provisions in Table E.1 and would have no more than a minor impact.

**Approved by Environmental Representative (signed):**

Date:	
Name:	
Position:	