



The River Gateway to Parramatta

- The Pedestrian and Cyclist Bridge at Alfred Street will be the first Diagonal Arch bridge to be designed and constructed in Australia.
- The bridge deck threads through the vertical plane of an arch centred on the navigable channel of the Parramatta River.
- This means the single arch can be experienced in two distinct ways, when moving under or along the bridge deck.
- The structurally honest and dynamic design will also provide an ever changing form in harmony with the surrounding landscape.

Key Design Principles



Maximise Accessibility

Connect directly to the foreshore path, but also maximise access to and from the new street network.



User Safety

Deliver a design that minimises risks to users and follows Crime Prevention Through Environmental Design (CEPTED) principles.



Timelessness

Deliver an elegant bridge that is a prominent landmark defining the river gateway to the City.



Clarity of Form

Cross the Parramatta River in a structurally honest and elegant single span, bank to bank, and centred on the visual and navigable river channel.



User Experience

A smooth and delightful user journey along the bridge with gentle gradients not exceeding 3%, avoiding landings.



A Balanced Outcome

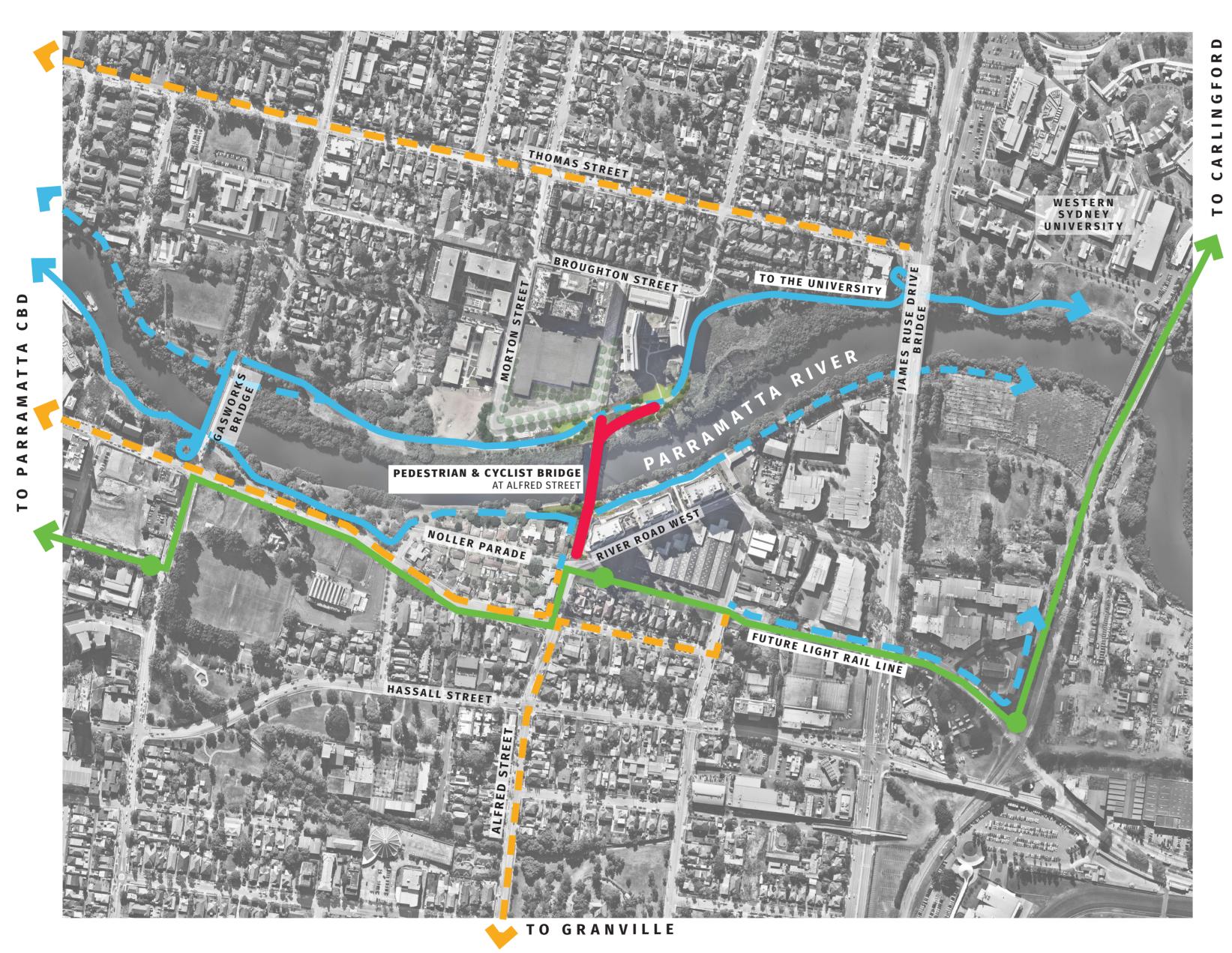
Thoughtfully designed to balance aesthetics, constructability, maintenance, as well as whole of life and construction costs.



Respectful of the local setting

Consider the visual setting from all angles towards and from the bridge.

Pedestrian and Cyclist Bridge across Parramatta River at Alfred Street



Context Plan: Connection to Parramatta CBD and Western Sydney University







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Local context

The new bridge sits centrally between two major drivers of pedestrian and cycling movement: the CBD and the Western Sydney University.

Further to this, the higher density development immediately surrounding the Bridge will be supported by direct access to the proposed Light Rail Station at corner of River Road West and Alfred Street.

Legend

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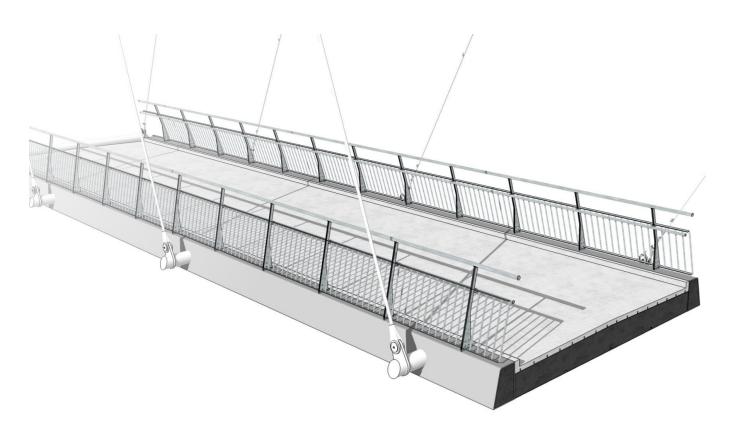
Existing Shared Pedestrian and Cycle Path Proposed Shared Pedestrian and Cycle Path Proposed Cycle Lanes

Light Rail Line/Stop

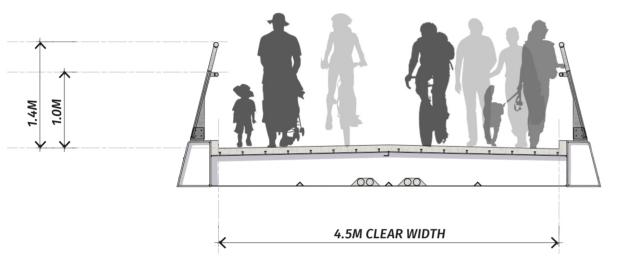
Pedestrian and Cyclist Bridge at Alfred Street



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BALUSTRADE DETAIL



BRIDGE DECK SECTION







NORTH ALIGNMENT TO OPEN SPACE



POTENTIAL LIGHTING DESIGN

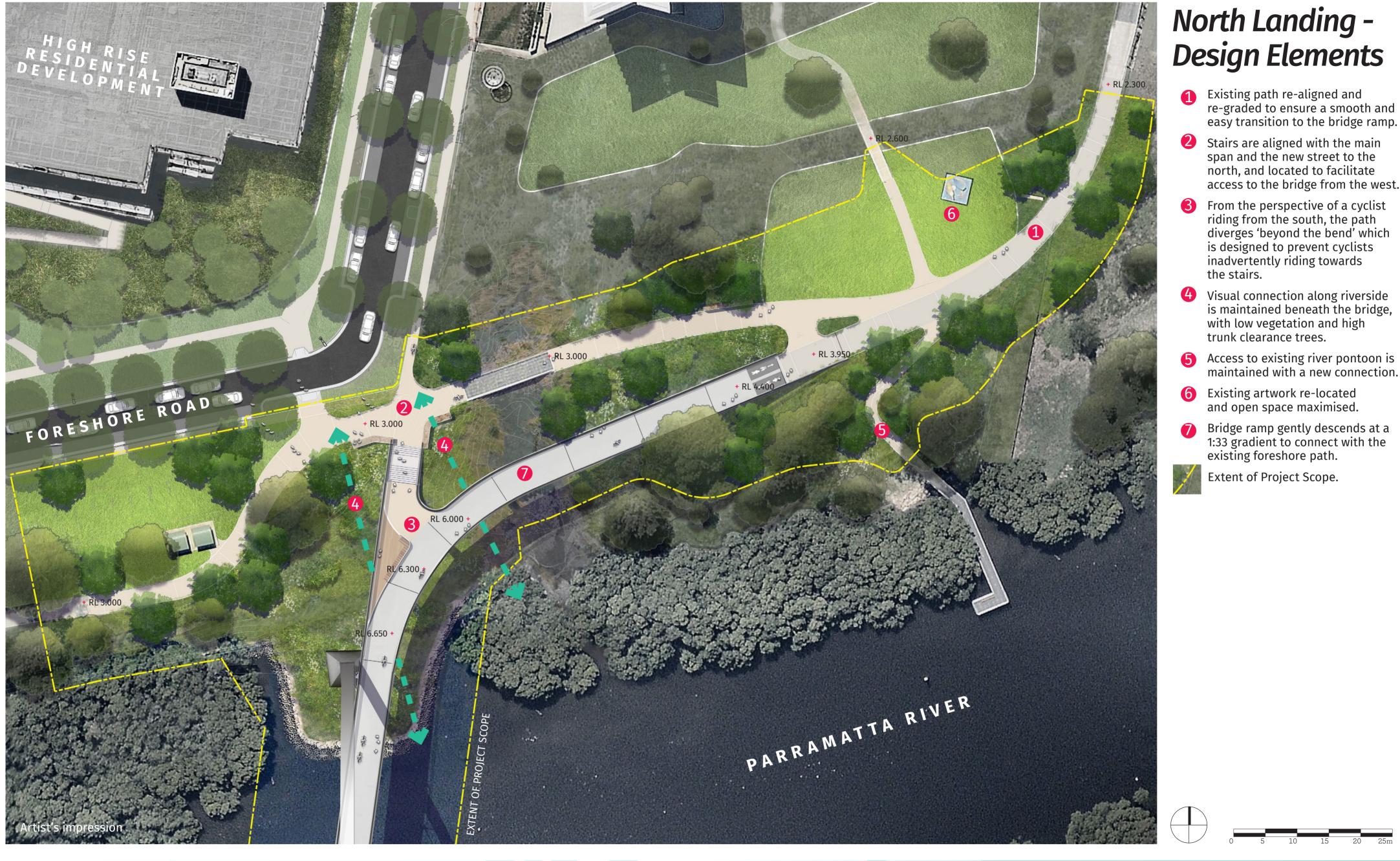
ELEVATION FROM EAST

Key Features

- The generous deck width of 4.5m takes into account the potential future volumes of pedestrians and cyclists, being mindful that a light rail stop will be located in close proximity to the southern landing.
- Both ends of the bridge visually align with the streets at each end, orienting pedestrians and cyclists towards open public space.
- The southern approach to the bridge has been carefully located to the east of the Alfred Street road reserve providing space between the abutment and existing apartment blocks, but also defines a meaningful public space to the west.
- An opening under the bridge deck at the southern end has been incorporated to ensure the existing riverside path can be extended along the river foreshore to the CBD.
- At the northern bank the bridge bifurcates into a stair to the west and a gently sloping ramp down to the foreshore path.
- Lighting will be an integral part of the bridge design and seeks to highlight the engineering elegance of the main span.

KEY DIMENSIONS			
Main span	Height	30m above the high water mark	
	length	80m	
Overall Length		Just over 300m 175m Elevated steel/concrete decks 130m Concrete Pathways on ground	
Clearence		5.9m above hte high water mark	
Clear Deck Width		4.5m	

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North Landing Concept Plan: Connection to Baludarri Wetlands and Western Sydney University





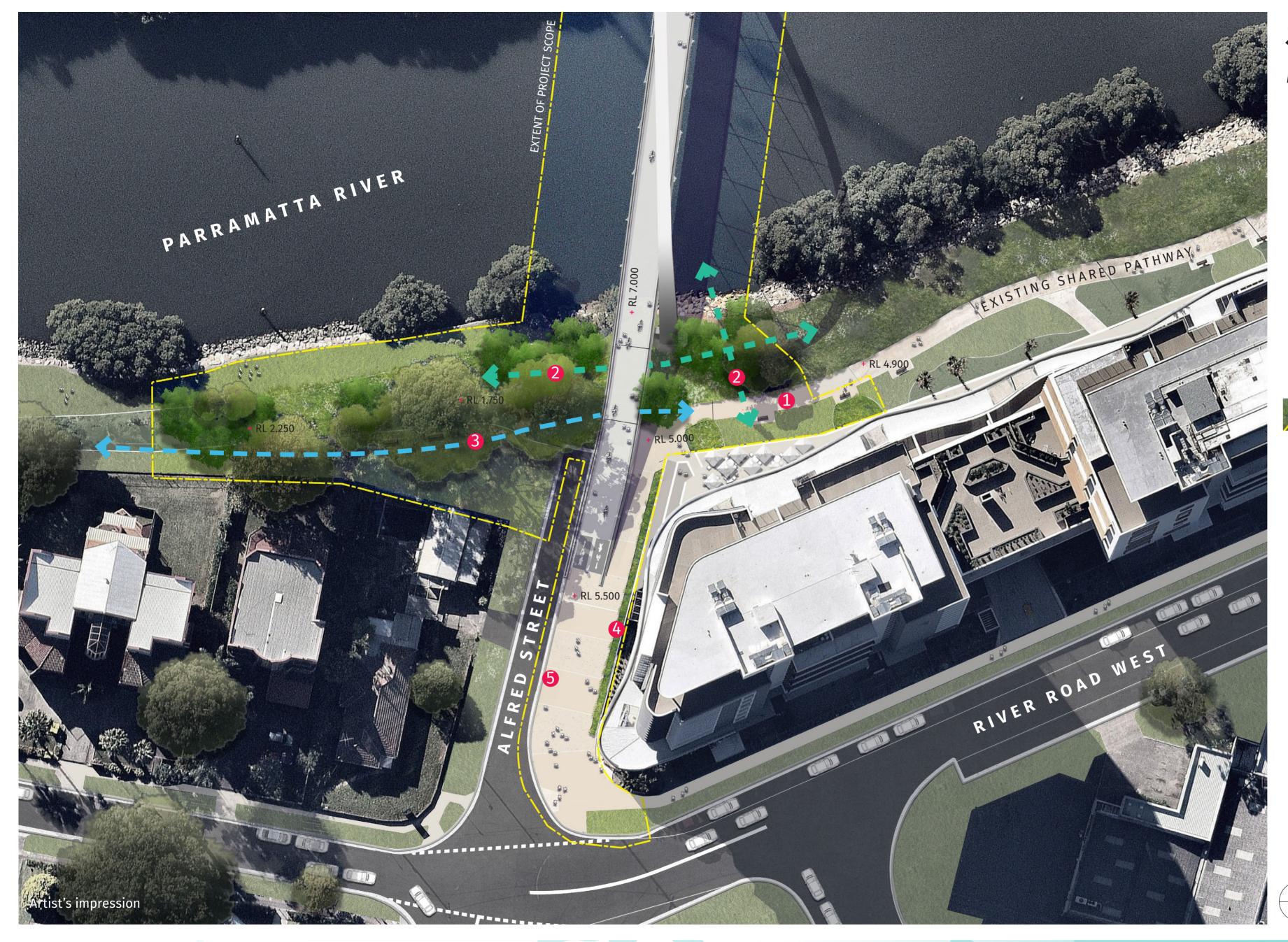
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- Existing path re-aligned and re-graded to ensure a smooth and
- access to the bridge from the west.

- maintained with a new connection.

Pedestrian and Cyclist Bridge across Parramatta River at Alfred Street



South Landing Concept Plan: Connection to Alfred Street and Future Light Rail







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South Landing -**Design Elements**

- **(**) Connection to existing pathways.
- 2 Visual connection along riverside is maintained beneath the bridge, with low vegetation and high trunk clearance trees.
- Provision for future, upper bank ß connection towards the City.
- Buffer planting to adjacent 4 property.
- As part of this project, the north 6 end of Alfred Street is proposed to be closed as a road and converted to a shared zone, but maintaining access to the adjacent property. The final configuration of the public space west of the bridge will be a separate project.

Extent of Project Scope





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Concept only, subject to approvals and further detail design

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