



## Section 7

# Catalyst Projects

The following section proposes a number of highly progressive and visionary strategies which would be greatly beneficial for Bayside. The projects have been selected because they change not only the functionality but the perception of the LGA in the minds of the community, by expanding opportunities for visibility through improved access to the many unique locations which characterise Bayside. Due to the scale and complexity of the works proposed, it is likely that engagement and collaboration with other stakeholders will be required.



# Green Connector Streets

## Blue Green Networks

New street trees to increase local canopy cover and help deliver the 5 million tree target, provide shade and assist in mitigating heat island effects

Where viable, introduce WSUD into streets as bioswales, planted blisters, inlet tree pits, permeable pavements to aid in water quality . WSUD will have a layering of outcomes including reducing crossing distances, introducing additional vegetated elements into the landscape and additional opportunities for biofiltration

Trees and understorey planting to be diverse variety of indigenous species that speak, to the ecology of place, contribute to local habitat, provide shade and reduce the heat island effect

## Places for People

Re-focus community back toward to the water by creating distinct parkland corridor connections with generous pedestrian and cycle paths, shade and easy crossings

Introduce signage on connector streets with distance markers to open space for ease of wayfinding

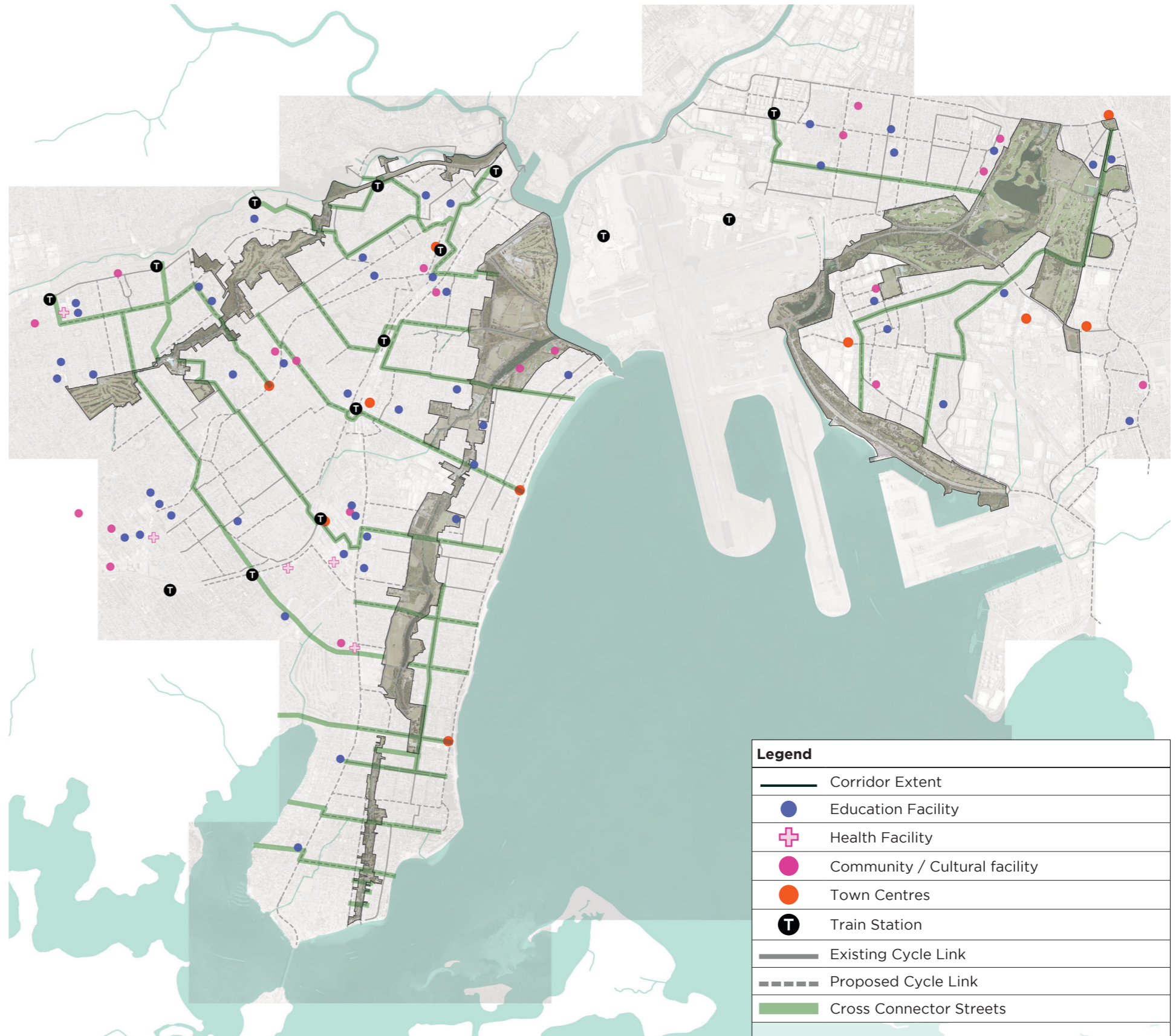
Embed ecological educational interpretation in network to promote community respect and protection of open space (such as 'this drains to Rockdale Wetlands' etc

## Movement

Cross connector streets located to link communities, key local centres and transport nodes to green corridors

Cross connector streets align with proposed and existing cycle paths and shared paths (Bayside Bike Plan)

These connectors have been identified to maximise opportunities for active transport. When detailed design occurs the routes and movement typologies may need to change to respond to specific characteristics of that space





# Green Connectors Street - typical local street

A typical local street generally comprises of four traffic lanes, turf verge and a two metre footpath on both sides. It provides a key connection between neighborhoods, centres and residential areas. The proposal seeks to maximise environmental performance, whilst maintaining the existing kerb location (reducing costs and significant service upgrades). Upgrades include:

## Shared Path/ Bike Path/ Pedestrian Paths

Provide shared path, pedestrian and cycle paths in accordance with Bayside Bike Plan. These paths have been identified to maximise opportunities for active transport. When detailed design occurs the routes and movement typologies may need to change to respond to specific characteristics of that space. Two section options of how the active transport links might be implemented into streets are illustrated to right.

Provide lighting and signage for ease of wayfinding.

Opportunity to embed distance markers/ interpretation into groundplane/ signage/ other features to highlight these streets as important corridor connections.

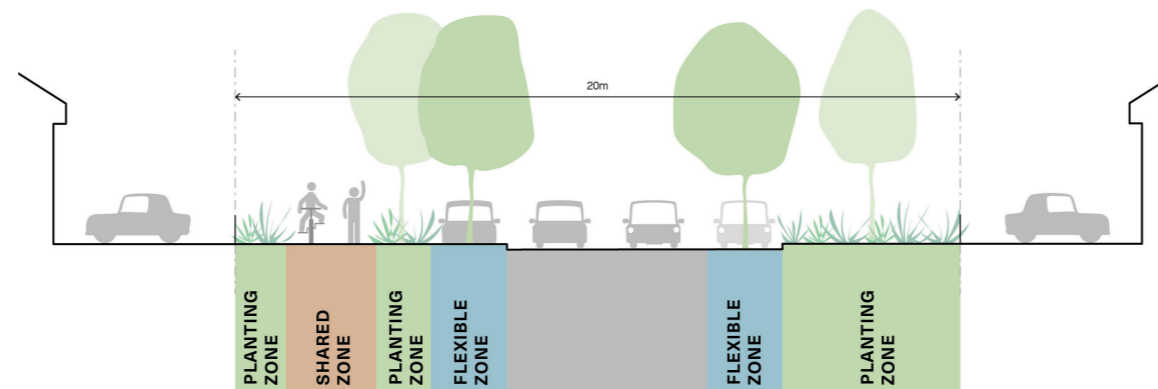
## Planting Zone

Mass planting on street verges and setbacks provides buffer from vehicular zone.

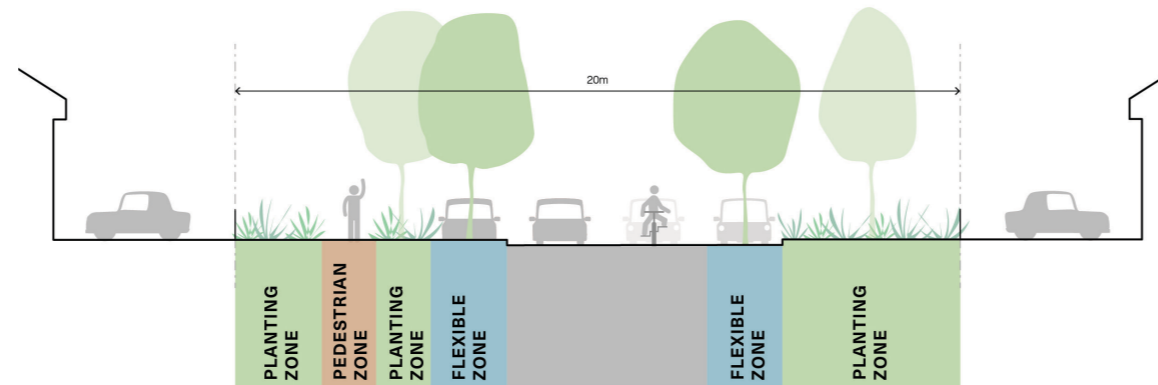
Species should be selected as endemic species, with continuous tree canopy as an extensions of the parkland network.

## Flexible Zone

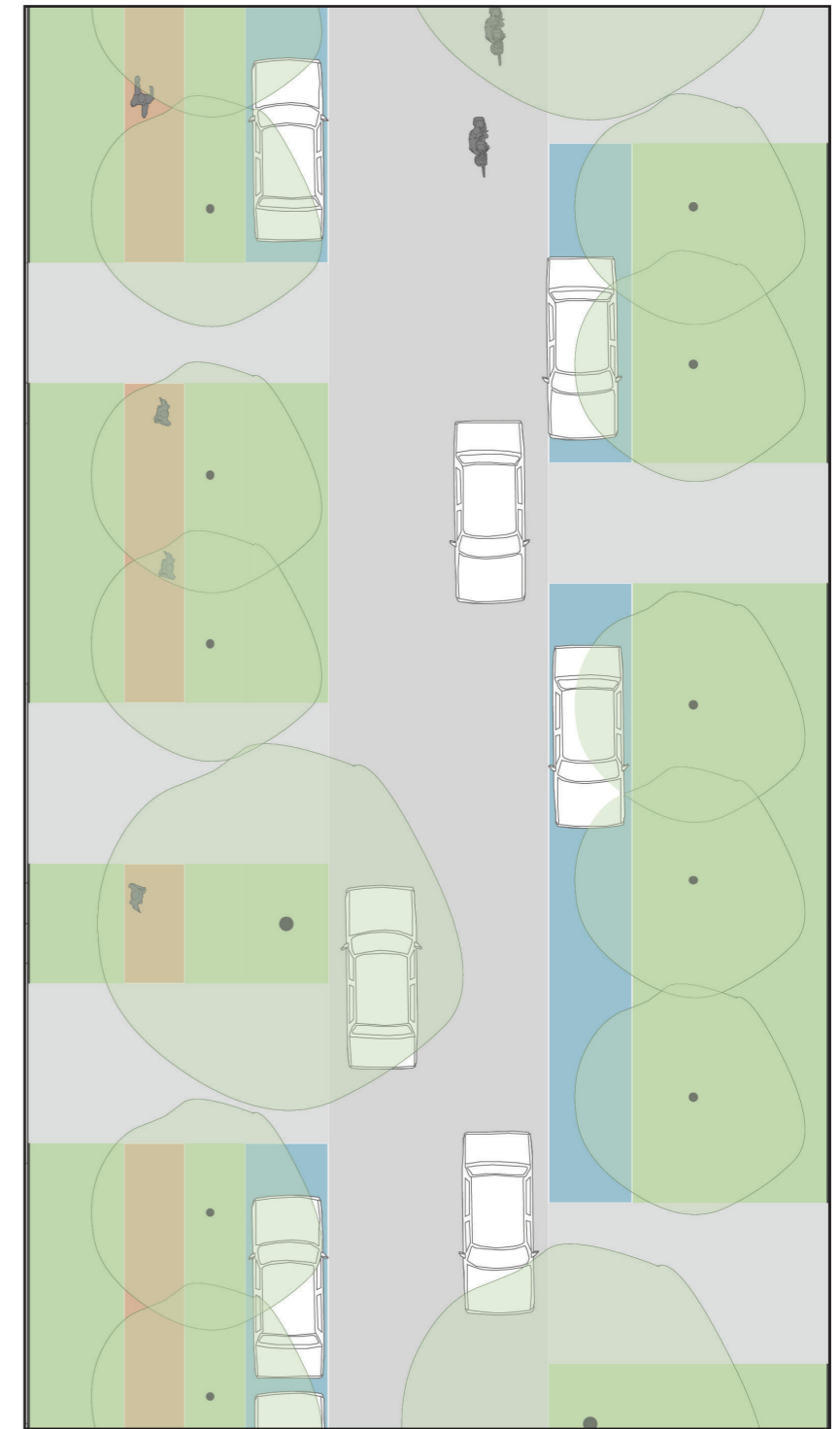
This is the zone in the streetscape that is adaptable to cater for varying needs such as on-street parking/additional street tree planting/water quality improvements such as WSUD rain gardens/ swales/ permeable pavements.



Typical Section



Typical Section



Typical Plan

# Green Connectors Street - typical high street

A typical high street usually comprises of four traffic lanes, turf verge and a two metre footpath on both sides with a retail interface. They provide key connections between local centres, public transport nodes and residential neighborhoods. The proposal seeks to maximise environmental performance, whilst maintaining the existing kerb location (reducing costs and significant service upgrades). Upgrades include:

## Shared Zone/ Bike Path/ Pedestrian Paths

Provide shared path, pedestrian and cycle paths in accordance with Bayside Bike Plan. Two section options of how the active transport links might be implemented into high streets are illustrated to right.

Provide lighting and signage for ease of wayfinding.

Opportunity to embed distance markers/ signage, particular at public transport nodes and key centres should be investigated.

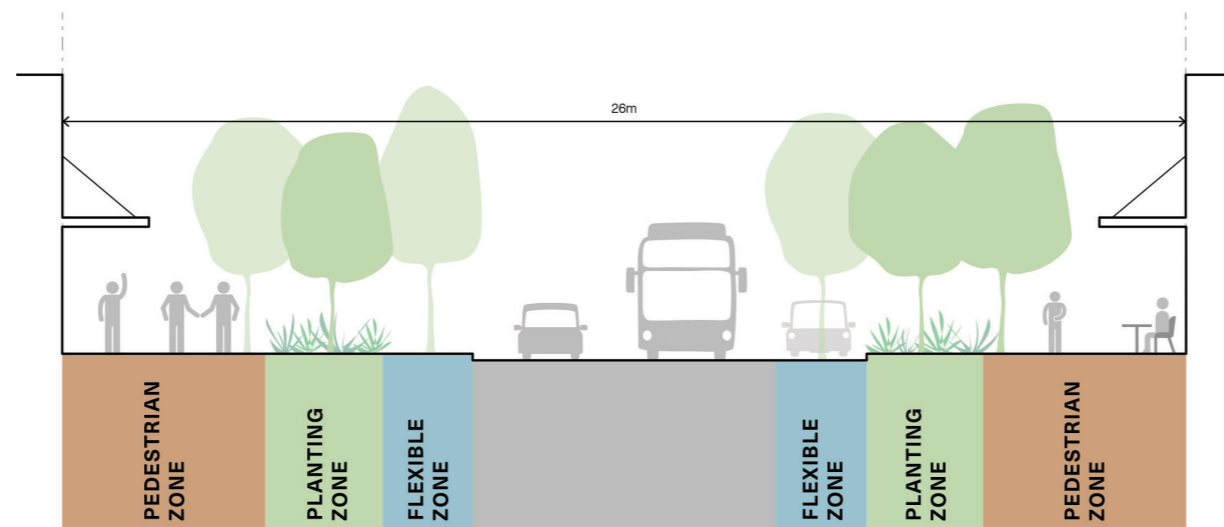
## Planting Zone

Mass planting on street verges and setbacks provides buffer from vehicular zone.

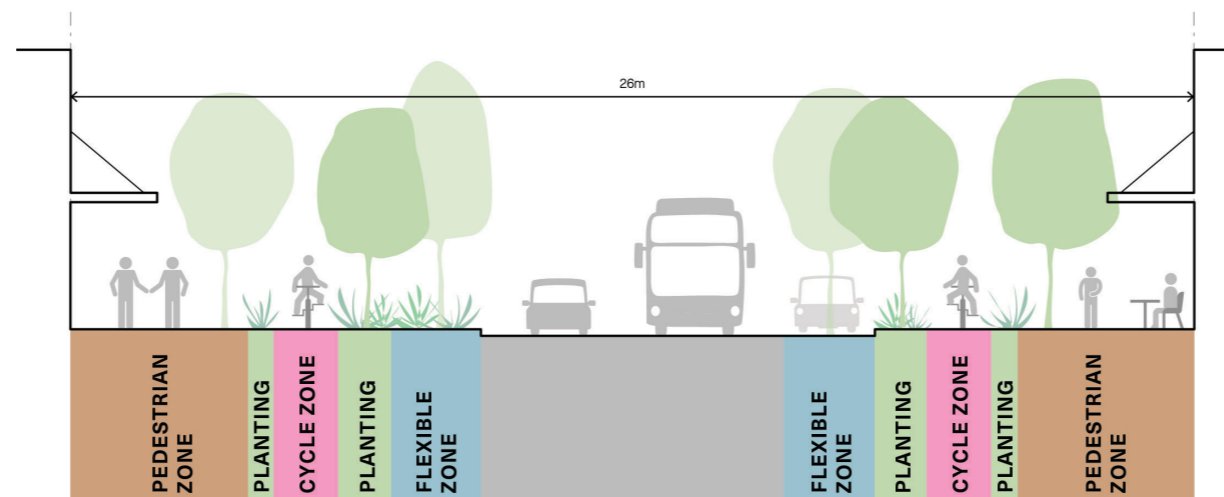
Endemic species selected with high branching tree canopies.

## Flexible Zone

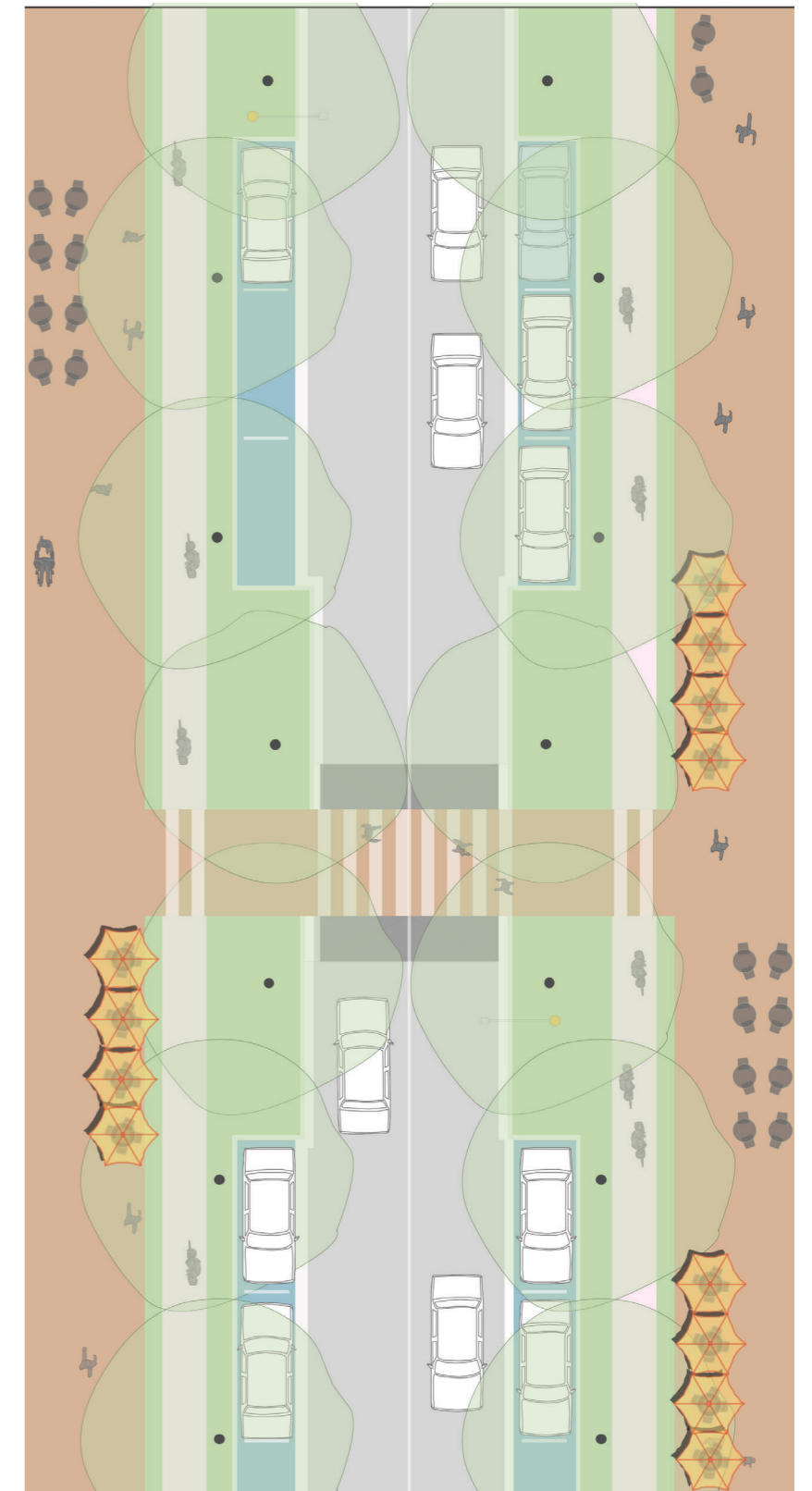
This is the zone in the streetscape that is adaptable to cater for varying needs such as on-street parking/additional street tree planting/water quality improvements such as WSUD rain gardens or for public transport networks.



Typical Section



Typical Section



Typical Plan



# Green Connectors Street - character precedents



Separated Bike path, street tree planting and mass planted buffer to road



Inlet kerb allows stormwater to be directed to bioswales



Interpretation/ educational overlays



Kerb extensions/ blisters for safer street crossing



Parkland educational artwork installation



Distance markers to aid wayfinding to open spaces



# Bado-berong Creek naturalisation Concept Plan



Concept Plan

KEY	
<b>1</b>	Shared path with tree planting. Extending existing recreational pathway connecting Scott Park to Bona Park and Scarborough Park Master Plan
<b>2</b>	Bado-berong Creek walk. Extend pedestrian pathway with permeable surface alongside new saltmarsh area for bird watching opportunities. Wayfinding and educational overlay opportunities (local language and Country)
<b>3</b>	Informal pedestrian links with tree planting
<b>4</b>	Expansion of salt marsh with managed bird hide and seating at edges
<b>5</b>	Meeting area (composite timber deck with seating) for custodial engagement
<b>6</b>	Biofiltration blisters at road crossing to align with active transport link
<b>7</b>	Green Street connector



# Bado-berong Creek naturalisation Concept Plan precedents



Indigenous native species, Carpobrotus, Photo by Chels Marshall



Bird hide, Narawntapu



Pedestrian pathway - Narrabeen Lagoon Trail



Shared path - Memorial Park



Bird watching - Wonthaggi Desalination Plant Ecological Reserve



Interpretation and educational signage, Savanna Portage



# Biofiltration Blisters

## Blue Green Networks

Locate biofiltration blisters at active transport street crossing points to aid in water quality by filtering pollutants from road surface before entering waterways

Incorporate endemic swale species in biofiltration blister to contribute to and extend local habitat

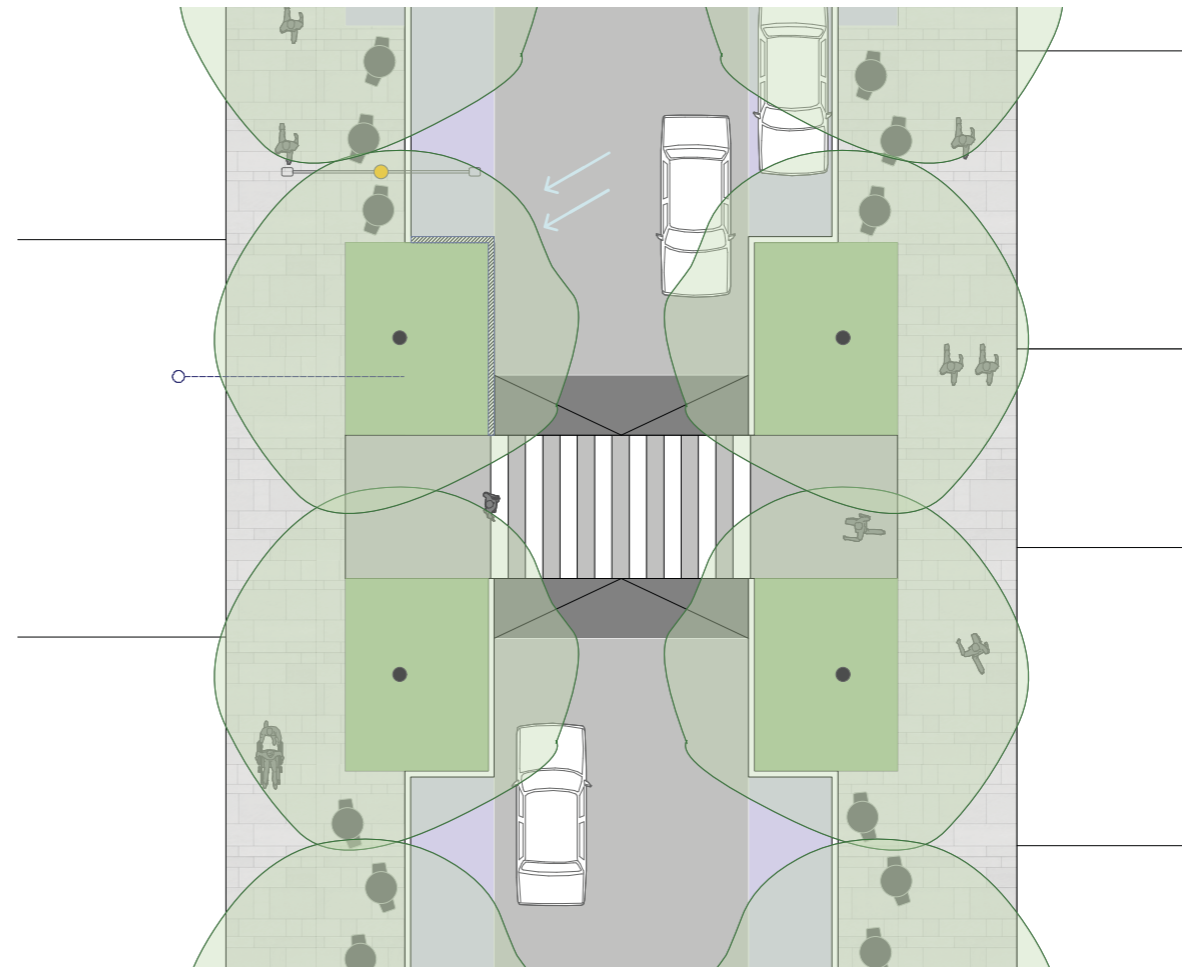
## Places for People

Introduce signage/wayfinding at key intersections with distance markers to open space for ease of wayfinding

Introduce interpretation/ educational signage to educate community about importance of maintaining the local water quality

## Movement

Introduce blisters into streets at key pedestrian/ cycle junctions on the green grid corridors to minimise crossing distance and aid in slowing traffic



Typical Plan



Raised Pedestrian Crossings and Biofiltration Blisters



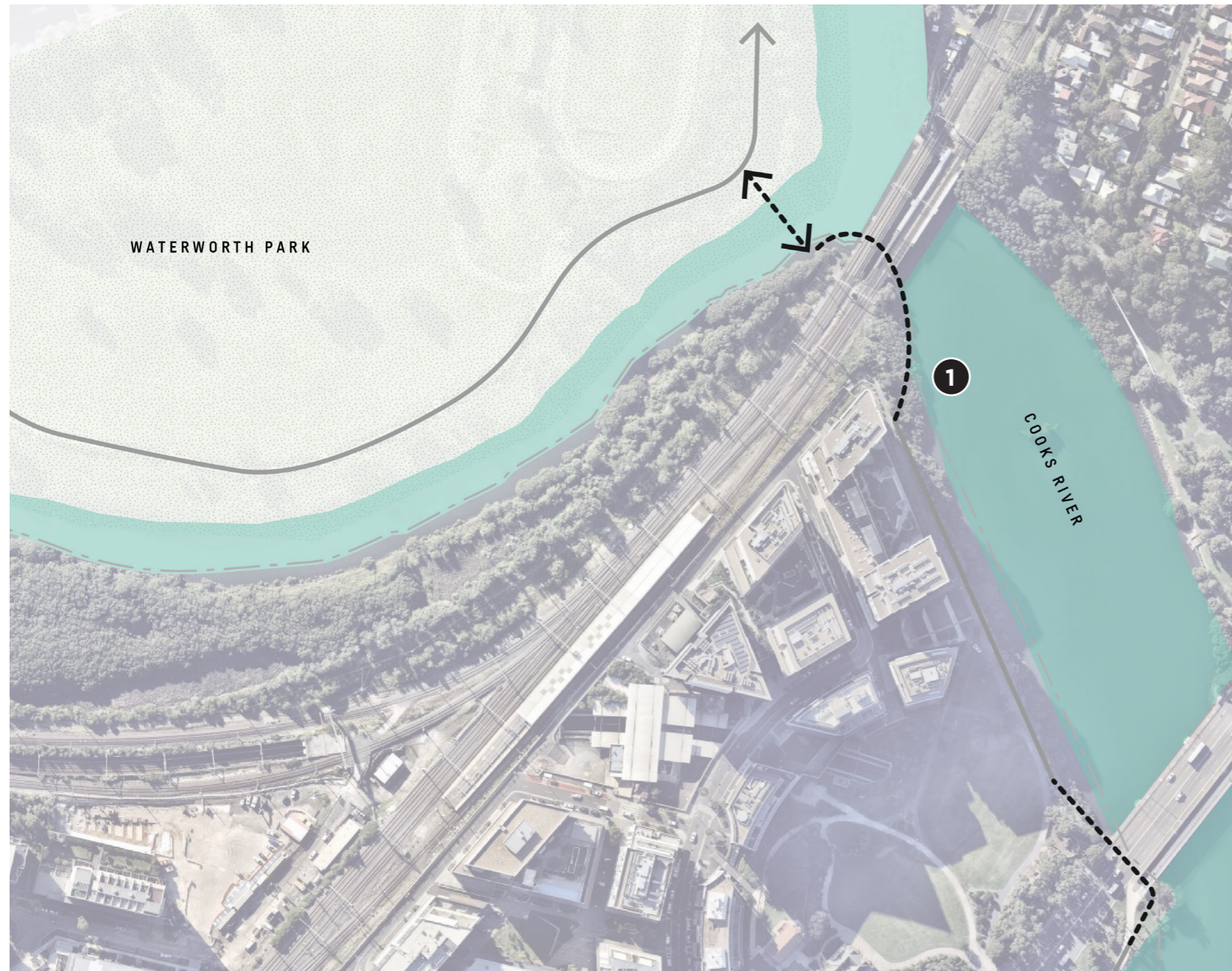
Interpretation and education



Raingardens between street parking



# East West connection at Wolli Creek



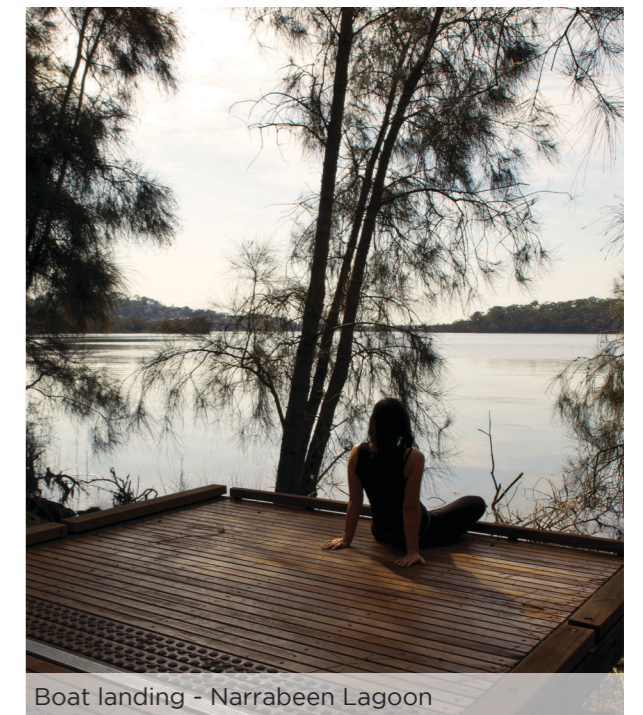
KEY	
1	Pedestrian connection along Cooks River, and visionary bridge connection to Waterworth Park



Bush pathway - Ryde Riverwalk



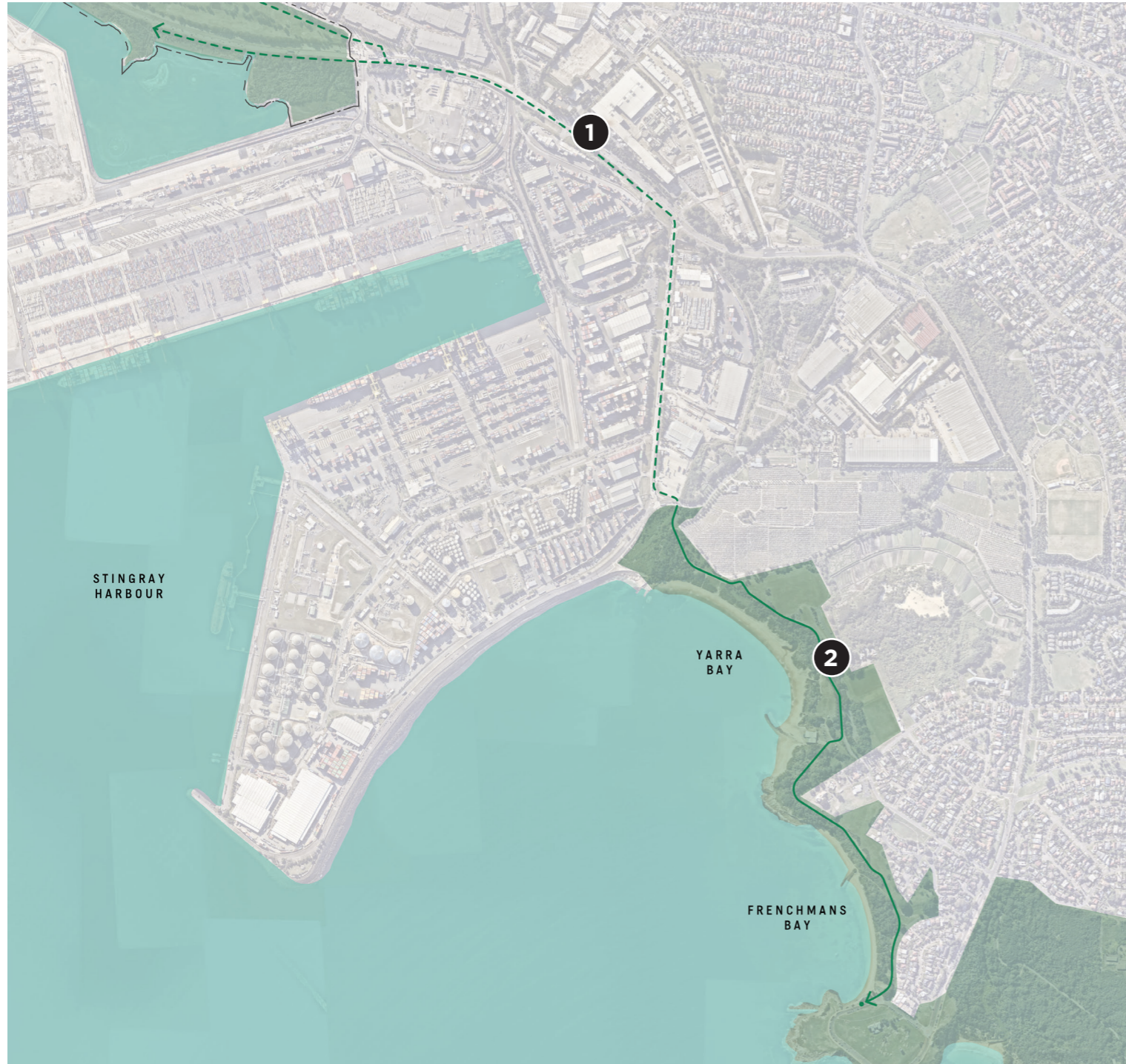
Interpretation/ educational signage



Boat landing - Narrabeen Lagoon



# Shared path connection to La Perouse Ferry Wharf



KEY	
<b>1</b>	Advocate for a shared path connection from corner of Botany and Foreshore Road, along Botany Road, Bumborah Point Road to junction of Military Road and Bumborah Point Road. Investigate opportunities for wayfinding, street tree planting and mass planted buffer to roadway
<b>2</b>	Collaborate with Randwick Council to deliver a new connection between existing parkland pathway along Yarra Bay, and the future ferry wharf at La Perouse



Cultural installation



Shared Path with buffer planting to road



# Appendix

## Masterplans

*Barton Park Masterplan*

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*Bexley Park, Bexley Playground Upgrade*

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*Wolli Creek and Bonar Street Precinct Public Domain Plan*

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*Gilchrist Reserve Concept Plan*

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*Collaboration Area Kogarah Place Strategy*

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*Marsh Street Open Space (Arncliffe Reinstatement Site Plan)*

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*Bayside Priority Green Grid Corridors Recreation Plan*

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*Muddy Creek Draft Masterplan*

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*Bardwell Creek Wetland Design*

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*Riverine Park Masterplan*

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*Rockdale Bicentennial Park*

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*Rockdale Riparian Buffers and Shorebird Habitat*

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*Scarborough Park Masterplan*

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*Sir Joseph Banks Park Regional Playspace*

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*Special Infrastructure Contribution Plan works map*

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*Sydney Water Muddy Creek Naturalisation*

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## Council Policy Documents

*Sir Joseph Banks Park Plan of Management*

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*Scarborough Ponds Hydrodynamics , 2007*

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*Cooks River Estuarine Vegetation Management Plan, 2009*

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*Rockdale Street Tree Master Plan Report, 2009*

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*Sir Joseph Banks Park Review of Vegetation Management Plan, 2010*

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*Aquatic Weed Management, 2011*

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*Rockdale Biodiversity Strategy Volume 1, 2014*

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*Rockdale City Council Plan of Management for community land and public open space, 2015*

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*Botany Bay S94 Development Contributions Plan Amendment 1, 2016*

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*Draft Flood Management Policy*

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*Arncliffe and Banksia Green Plan, 2018*

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*Sydney Water - Plan of Management - Botany Wetlands, 2018-2028*

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*Wolli Creek & Bonar Street Precincts URA Contributions Plan, 2019*

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*RMS Recreation Needs Analysis, August 2019*

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*Bayside Council Brand Guidelines 20 Summary*

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*Bayside Council LSPS, Mar. 2020*

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*Bayside Environmental Strategy, April 2020*

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*Wolli Creek Technical Manual, December 2011*

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*Wolli Creek Riparian Management Plan, December 2011*

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*Draft Bayside Bike Plan, 2019*

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*Wolli Creek Grey-headed flying-fox Camp Management Plan, July 2015*

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*Bayside Water Management Strategy - Ready For Adoption Sir Joseph Banks Park Plan of Management, June 2020*

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*M6 Environment Assessment Report*

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*Cahill Park Masterplan Report, March 2018*

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*Bayside Social Infrastructure Draft Report, March 2020*

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*Transport Strategy Report Draft, March 2020*

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*MGP Engagement Report*

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*Open Space and R-alysis Botany Aquatic Centre, November 2012*

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*Hensley Park Plan of Management, October 2010*

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*Amendment 7 Arncliffe and Banksia, RDCP 2011*

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*Rockdale Local Environmental Plan, 2011*

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*Scarborough Ponds Preliminary Hydrodynamics Study Contamination Albani*

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*Open Space Provisions In Arncliffe And Wolli Creek, September 2006*

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*Flying-fox Forage Tree Guide, September 2017*

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