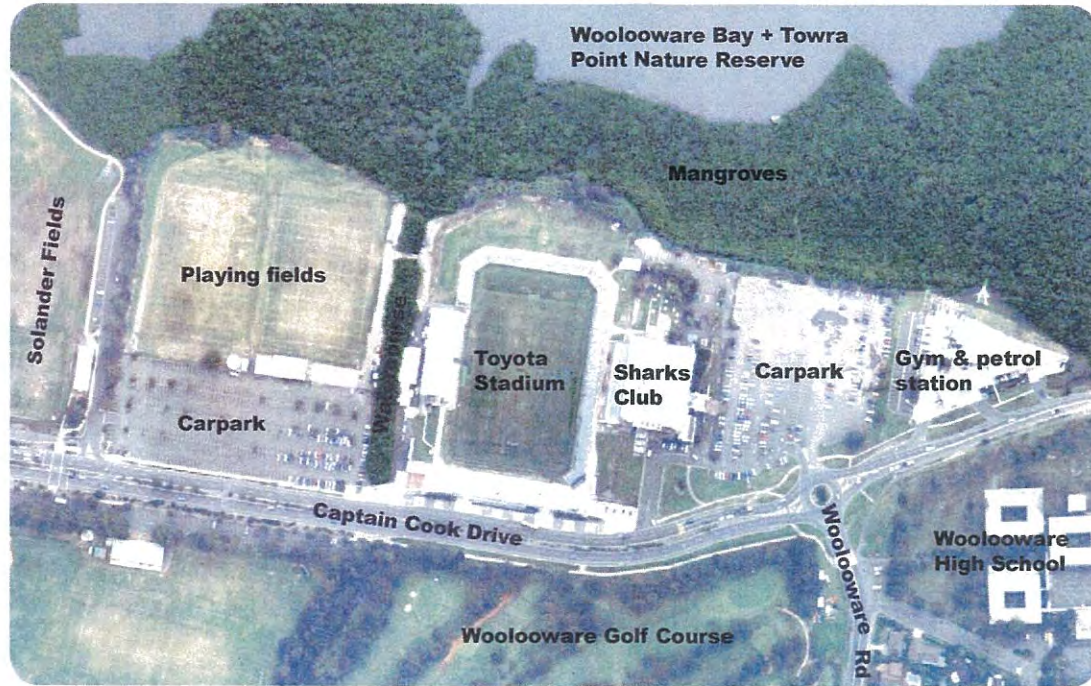


Cronulla Sharks Redevelopment

Landscape Concept Plan

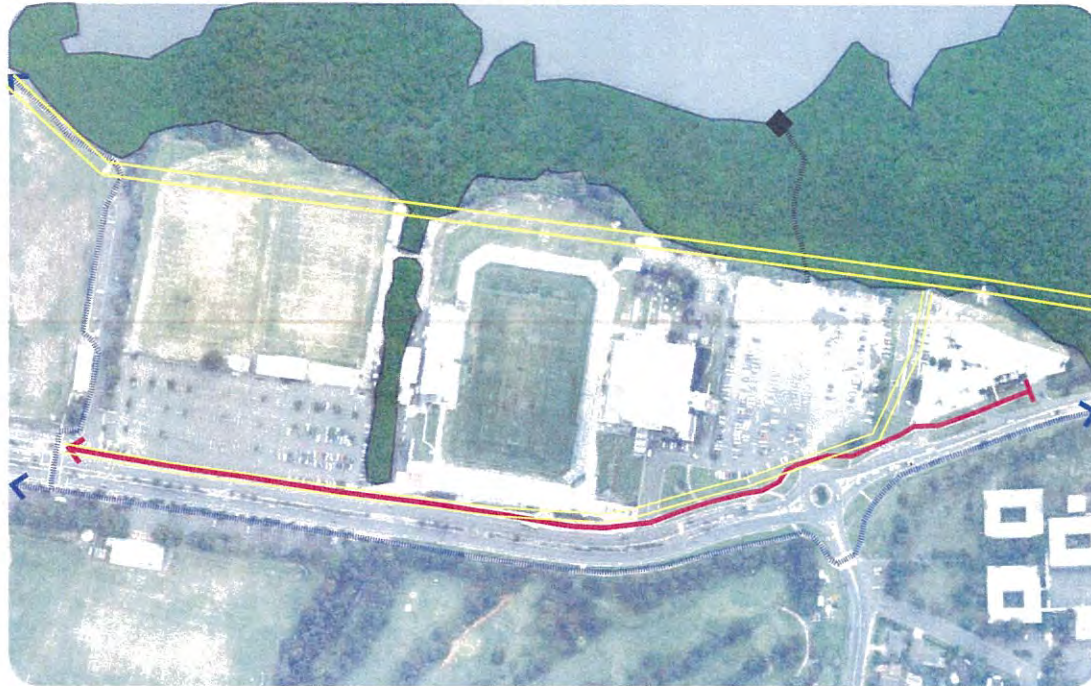


Context plan



Aerial image (existing site conditions). Source: Nearmaps

Existing site conditions and pedestrian links



Aerial image (existing site conditions). Source: Nearmaps

Existing site images



Existing boardwalk



Sharks Club and carpark



Aerial view of mangroves



Toyota Stadium and 'Family Hill'



Carpark on western side of stadium



Playing fields on western side of stadium

11017 Cronulla Sharks Redevelopment | Cronulla



In collaboration with: TURNER ASSOCIATES



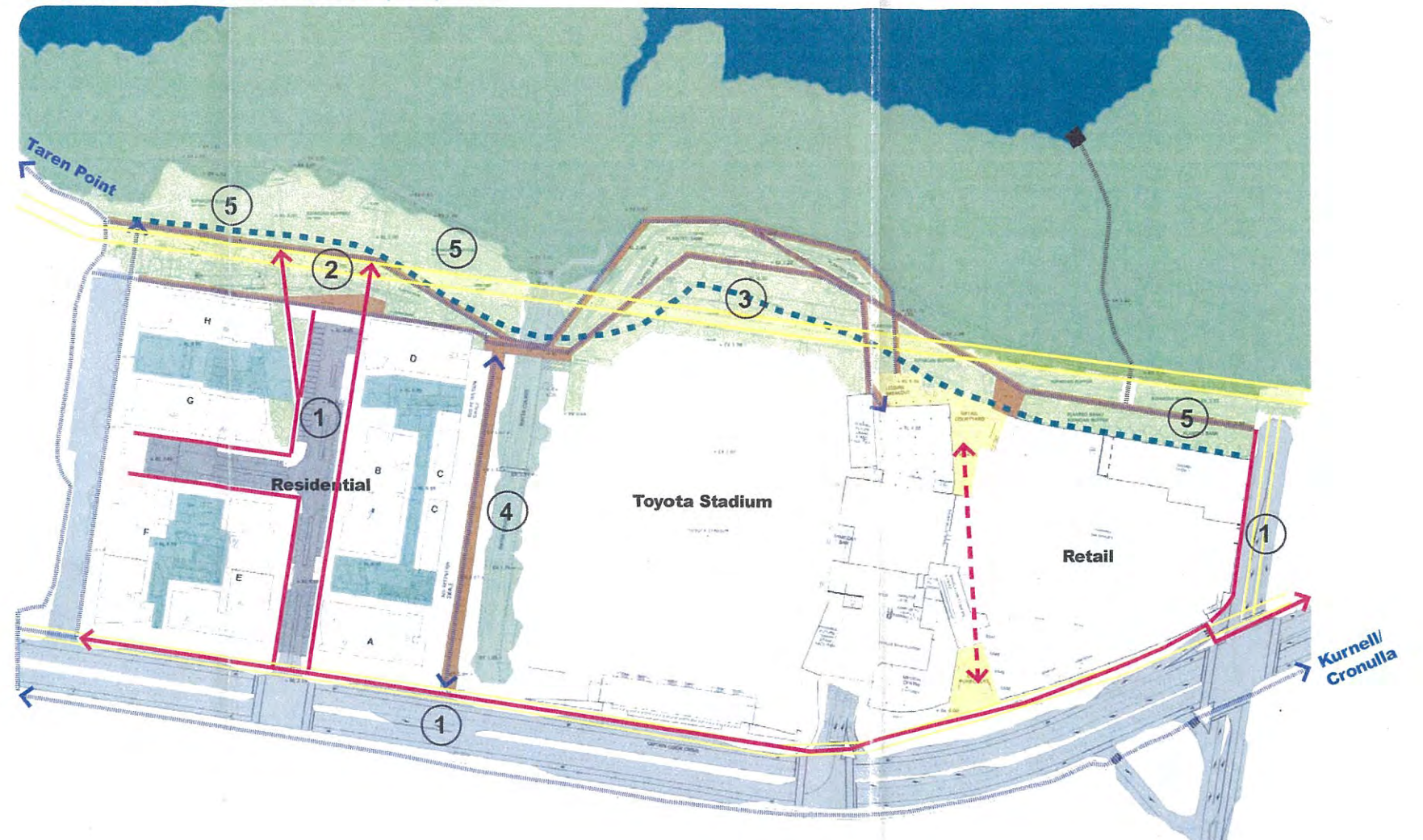
Client: Bluestone Capital Ventures
No. 1 Pty Ltd

Drawn: JEM/LN
Checked: SC

Date: March 2012

Dwg no.: 11017 - EA 01
Rev: B

Site plan. New links and landscape spaces



Key

- Pedestrian/ cycle paths
- Footpaths
- Internal footpath link
- Existing boardwalk
- Power lines over
- 30m setback from mean high water mark

- ① Streetscape upgrades and new streetscapes
- ② Foreshore Park
- ③ Toyota Stadium 'Family Hill' upgrades
- ④ Existing Watercourse
- ⑤ Vegetated riparian buffer planting

Foreshore pathways network (link into local shared path network)

NSW GOVERNMENT Planning

Private communal courtyards (residential)

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Sheet No. 1 of 7

Site context | Environmental Assessment

Concept plan 1:750 [A1]



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Sheet No. **2** of **7**

Key 1 New footpath and retained trees 2 Children's playground 3 BBQ facilities/ shade canopy 4 Open turf area 5 Elevated educational pontoon/ decks 6a Lower Foreshore Boardwalk 6b Lower Foreshore path 7 Residential streetscape 8 Residential private/ communal courtyards 9 Upgraded streetscape 10 21m wide zone containing planted swale / watercourse pathway link 11 Bank stabilisation / gabion wall terraces 12 Family Hill/ turf terraces 13 Upper Foreshore Path 14 Path link into Level 2 retail 15 Retail entries 16 Upgrade existing boardwalk 17 Informal sea wall 18 Vegetated riparian buffer / screening trees to retail loading dock 19 Vegetated riparian buffer to mangroves 20 Existing bridge connections

11017 Cronulla Sharks Redevelopment | Cronulla

ASPECT Studios

In collaboration with: **TURNER ASSOCIATES**

Scott Carver

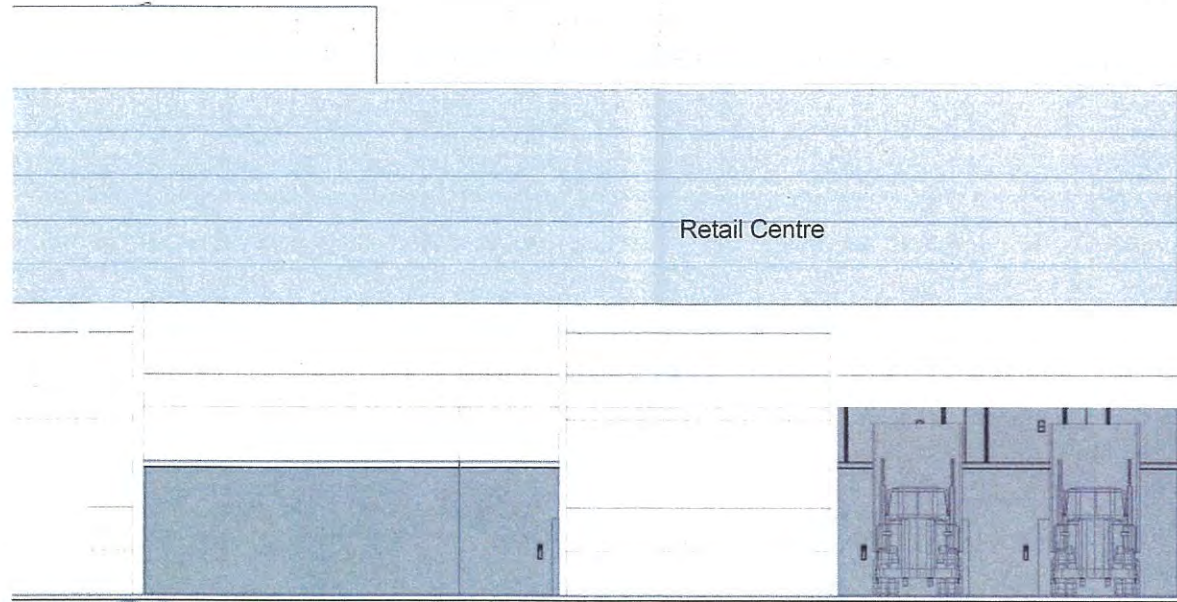
Client: **Bluestone Capital Ventures No. 1 Pty Ltd**

Drawn: **JEM/ LN**
Checked: **SC**

Date: **March 2012**

Dwg no.: **11017 - EA 02**
Rev: **B**

Landscape concept plan | Environmental Assessment



30m setback from mhw

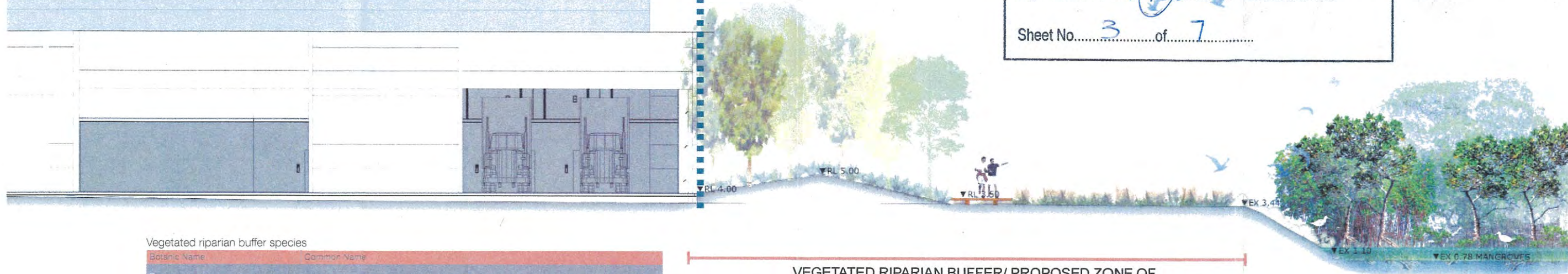
NSW GOVERNMENT
Planning

POWER LINES

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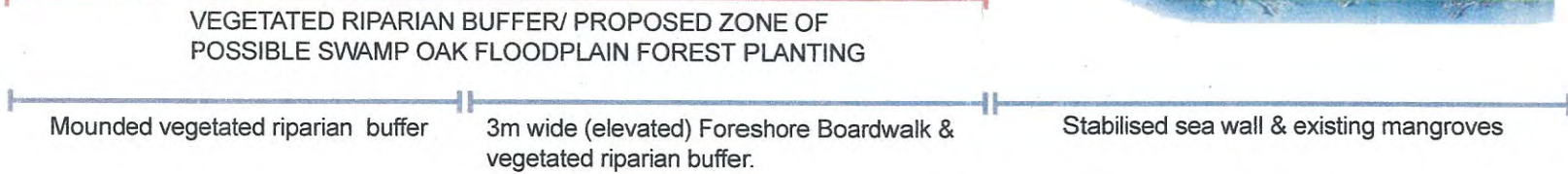
Approved Application No. MP10-0229granted on the 27/8/2012

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Sheet No. 3 of 7

Vegetated riparian buffer species

Botanic Name	Common Name		
Trees		Rushes / Grasses	
<i>Acmena smithii</i>	Lilly Pilly	<i>Baumea juncea</i>	Bare Twig Rush
<i>Banksia integrifolia</i>	Coast Banksia	<i>Carex appressa</i>	Tall Sedge
<i>Casuarina glauca</i>	Swamp Oak	<i>Cynodon dactylon</i>	Sand Couch
<i>Cupaniopsis anacardioides</i>	Tuckeroo	<i>Crinum pedunculatum</i>	Swamp Lily
<i>Ficus obliqua</i>	Small Leaved Fig	<i>Dianella caerulea</i>	Blue Flax Lily
<i>Ficus rubiginosa</i>	Rusty Fig	<i>Imperata cylindrica</i> var. <i>major</i>	Blady Grass
<i>Lophostemon suaveolens</i>	Swamp Turpentine	<i>Isoplepis undata</i>	Swamp Club Sedge
<i>Melaleuca ericifolia</i>	Swamp Paperbark	<i>Juncus kraussii</i> subsp. <i>Australiensis</i>	Sea Rush
<i>Melaleuca quinquenervia</i>	Broad Leaved Paperbark	<i>Juncus planifolius</i>	Broad Leaf Rush
<i>Melaleuca stypheloides</i>	Prickly Leaved Tea Tree	<i>Juncus usitatus</i>	Common Rush
		<i>Lomandra longifolia</i>	Ribbon Grass
		<i>Mauridia triglochinoides</i>	Water Ribbons
		<i>Opismenus imbecilis</i>	Basket Grass



Foreshore Boardwalk and vegetated buffer. Precedent images



Vegetated buffer
> ASPECT image library



Links into the local shared path network
> ASPECT image library



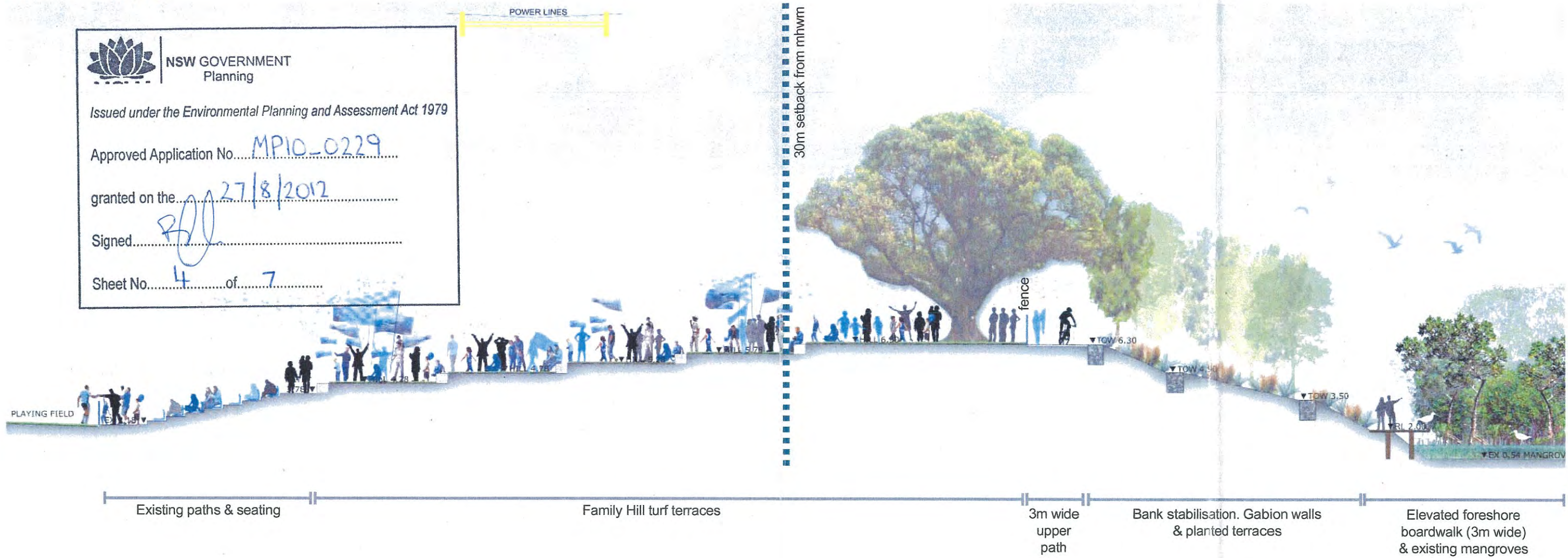
Informal sea wall/ bank stabilisation
> Glebe Foreshore.



Upgrade existing boardwalk
> Woollooware Bay Mangrove Boardwalk



Retain and protect existing mangroves



Family Hill & Foreshore boardwalk. Precedent images



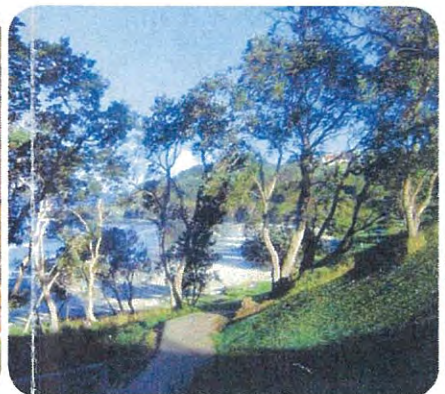
Preserve Family Hill atmosphere
> Toyota Stadium, Cronulla



Turf terraces and flexible security fences
> Redfern Oval. BVN/ Spackman Mossop



Mature tree planting
> Redfern Oval. BVN/ Spackman Mossop



Bank planting
> ASPECT image library



Bank stabilisation. Gabion walls
> Georges River. ASPECT image library



Foreshore boardwalk
> ASPECT image library



Boardwalk. Robust materials
> Narrabeen Trail. ASPECT Studios



Foreshore Park. Precedent images



Open turf areas and edge seating
> Ballast Point Park, McGregor Coxall



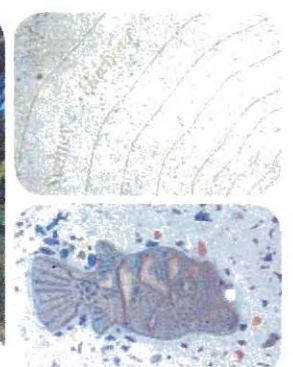
Children's playground
> Pirrama Park, Pyrmont. ASPECT Studios



Shade canopy and bbq facilities
> Pirrama Park, Pyrmont. ASPECT Studios



Vegetated riparian buffer planting and robust materials
> Shorebird Reserve upgrade, Taren Point.



Educational overlay/interpretation
> ASPECT Studios



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Planning

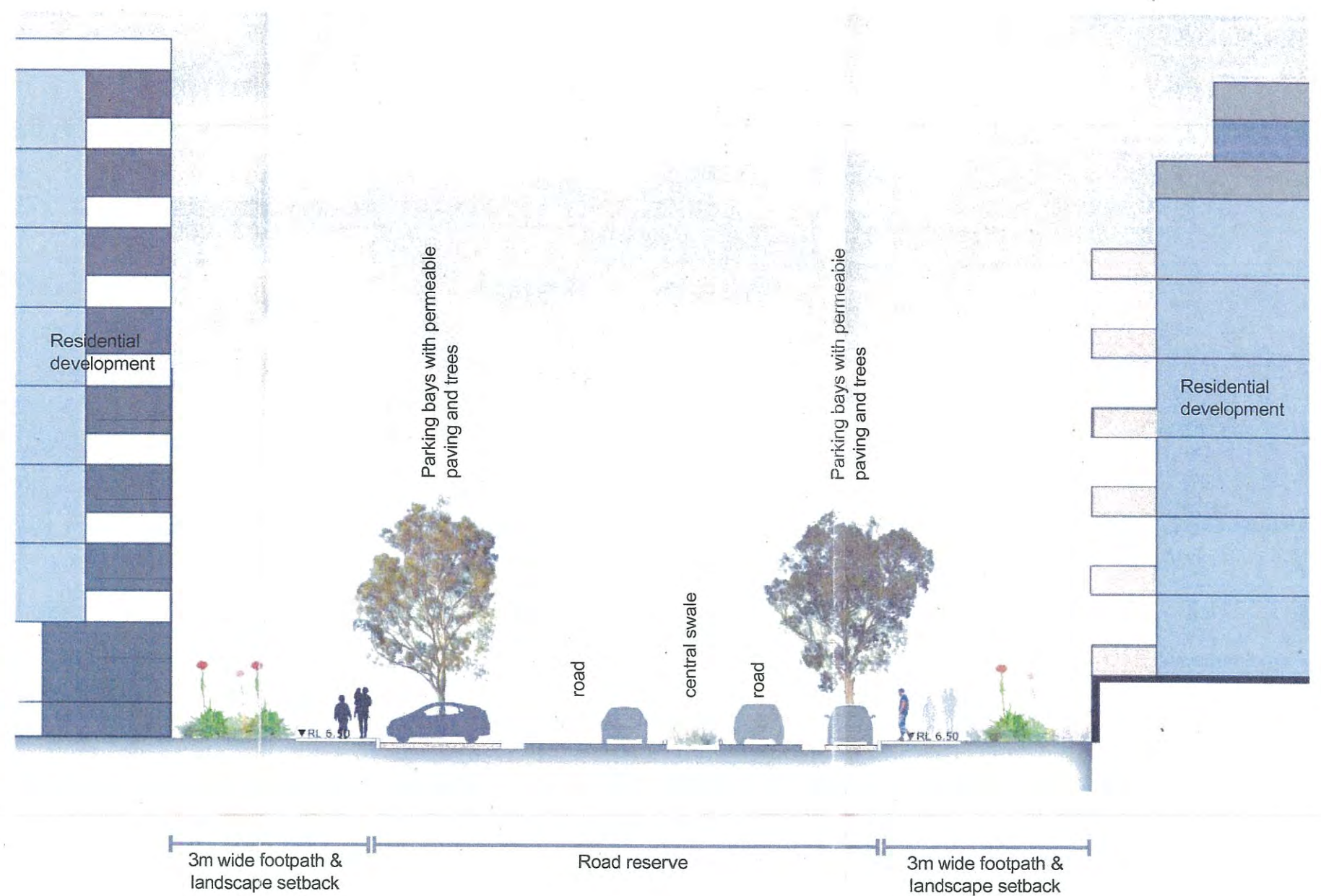
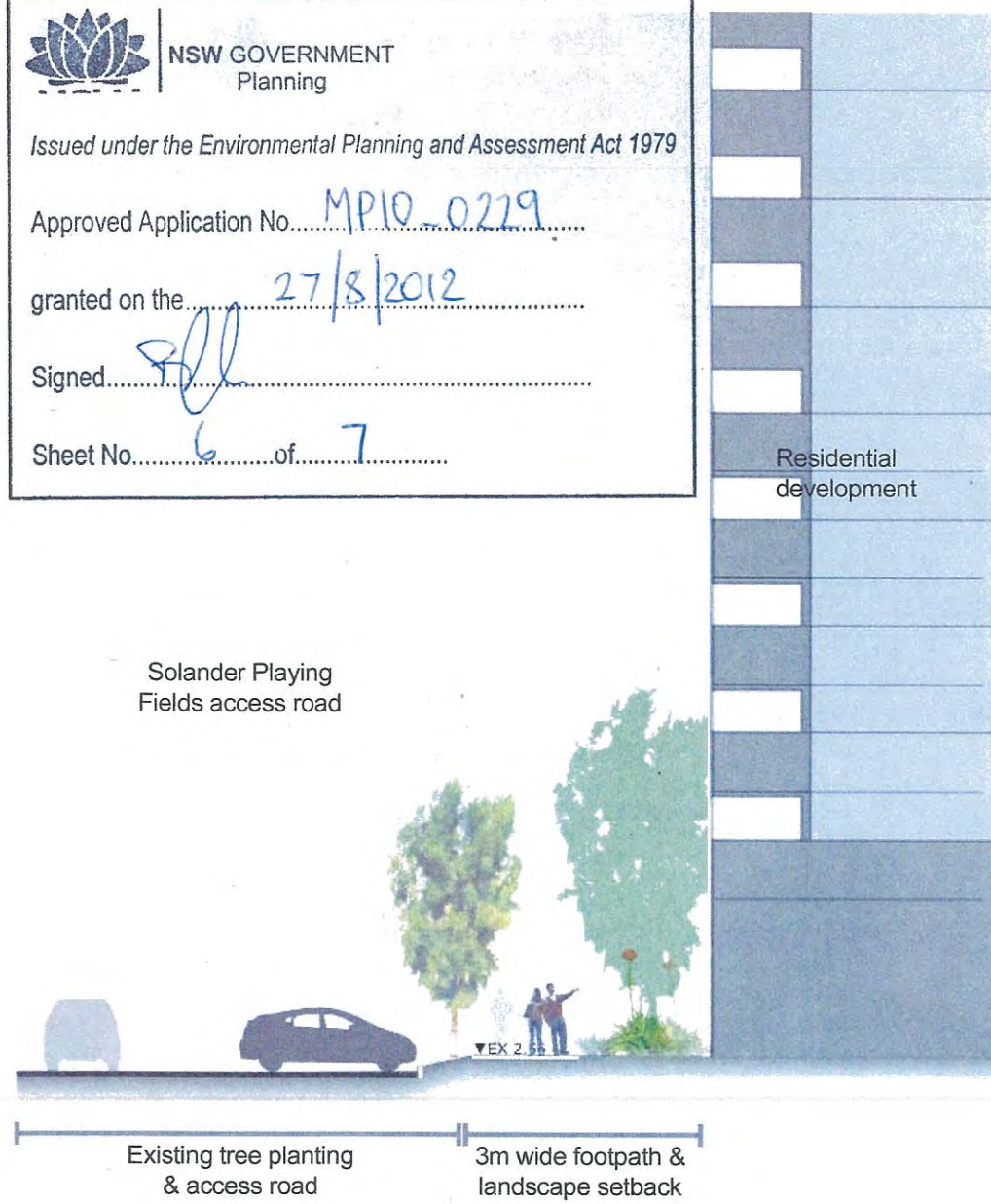
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Sheet No. 6 of 7



Existing site images



Existing street trees to be retained

Residential streetscape. Precedent images



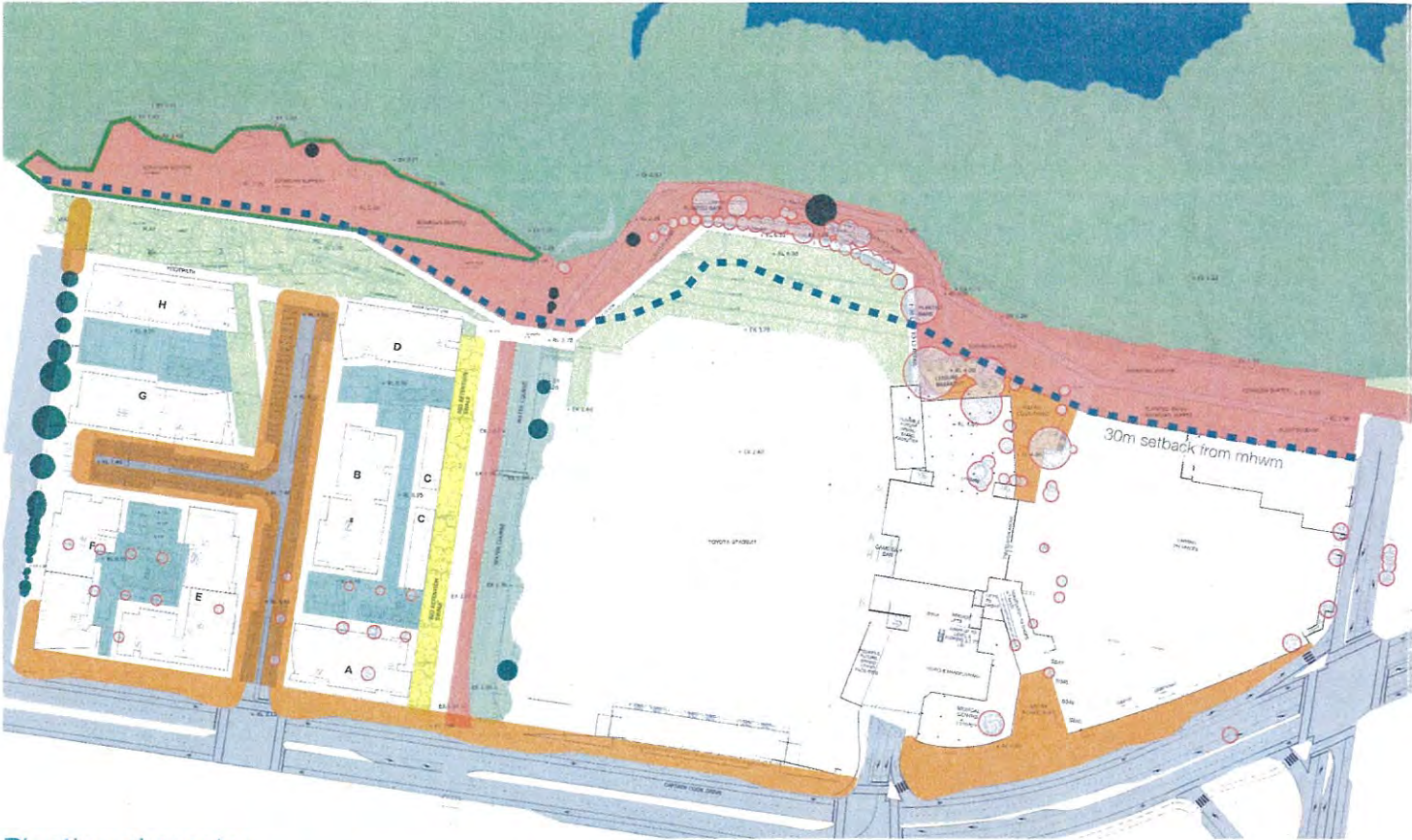
Street tree planting
> Victoria Park

Rain gardens
> Pirrama Road, Pyrmont. ASPECT Studios

Central swale
> Victoria Park

Permeable paving parking bays
> Bronte. Hydroston pavers

Planting zones key plan



- Existing Trees to be Retained
- Existing Trees to be Removed
- Vegetated riparian buffer
- Streetscape, Residential Setbacks and Retail Entries
- Foreshore Park, Family Hill and Playground
- Residential Courtyards
- Swale
- Ecological Revegetation Zone (possible salt marsh - subject to further investigation)

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Sheet No. 7 of 7

Vegetated riparian buffer

Botanic Name	Common Name
Trees	
<i>Acmena smithii</i>	Lilly Pilly
<i>Banksia integrifolia</i>	Coast Banksia
<i>Casuarina glauca</i>	Swamp Oak
<i>Cupaniopsis anacardioides</i>	Tuckeroo
<i>Ficus obliqua</i>	Small Leaved Fig
<i>Ficus rubiginosa</i>	Rusty Fig
<i>Lophosiemon suaveolens</i>	Swamp Turpentine
<i>Melaleuca ericifolia</i>	Swamp Paperbark
<i>Melaleuca quinquenervia</i>	Broad Leaved Paperbark
<i>Melaleuca stypheloides</i>	Prickly Leaved Tea Tree
Rushes / Grasses	
<i>Baumea juncea</i>	Bare Twig Rush
<i>Carex appressa</i>	Tall Sedge
<i>Cynodon dactylon</i>	Sand Couch
<i>Crinum pedunculatum</i>	Swamp Lily
<i>Dianella caerulea</i>	Blue Flax Lily
<i>Eleocharis cylindrica</i> var. <i>major</i>	Blady Grass
<i>Isoplepis inundata</i>	Swamp Club Sedge
<i>Juncus kraussii</i> ssp. <i>Australiensis</i>	Sea Rush
<i>Juncus planifolius</i>	Broad Leaf Rush
<i>Lomandra longifolia</i>	Longleaf Mat Rush
<i>Lomandra longifolia</i>	Ribbon Grass
<i>Maundia triglochoides</i>	Water Ribbons
<i>Pennisetum imberbis</i>	Basket Grass

Streetscape, Residential Setbacks and Retail Entries

Botanic Name	Common Name
Trees	
<i>Angophora costata</i>	Smooth Barked Apple
<i>Banksia serrata</i>	Old Man Banksia
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<i>Eucalyptus obliquis</i>	Port Jackson Mallee
<i>Eucalyptus punctata</i>	Grey Gum
<i>Livistona australis</i>	Cabbage Palm
<i>Melaleuca quinquenervia</i>	Broad Leaf Paperbark
<i>Toona australis</i>	Australian Red Cedar
<i>Tristanopsis laurina</i>	Water Gum
Raingardens - Rushes / Grasses	
<i>Dianella caerulea</i>	Flax Lily
<i>Dichelachne crinita</i>	Longhair plume grass
<i>Doryanthes excelsa</i>	Gymea Lily
<i>Juncus usitatus</i>	Common Rush
<i>Lomandra hystrix</i>	Longleaf Mat Rush
<i>Lomandra longifolia</i>	Spiny Headed Mat Rush
<i>Pennisetum alopecuroides</i>	Fountain Grass

Species suitable for use under power lines (if required)

Ecological Revegetation Zone (salt marsh) *

Botanic Name	Common Name
Groundcovers / Climbers	
<i>Limnium australe</i>	Native Sea Lavender
<i>Samolus repens</i>	Creeping Brookweed
<i>Sarcocornia quinqueflora</i>	Samphire
<i>Selliera radicans</i>	Swampweed
<i>Suaeda australis</i>	Austral Seablite
<i>Tetragonia tetragonoides</i>	Native Spinach
<i>Zoysia macrantha</i>	Prickly Couch
Rushes / Grasses	
<i>Austrostipa stipoides</i>	Coastal Speargrass
<i>Baumea juncea</i>	Twig Rush
<i>Crinum pedunculatum</i>	Marsh Club Rush
<i>Gahnia filum</i>	Saw Sedge
<i>Juncus kraussii</i>	Sea Rush
<i>Sporobolus virginicus</i>	Saltwater Couch
<i>Schoeroplectus sp.</i>	Club Sedge
<i>Triglochin striata</i>	Streaked Arrowgrass

* Possible salt marsh - subject to further investigation.

Foreshore Park, Family Hill and Playground

Botanic Name	Common Name
Trees	
<i>Agathis robusta</i>	Kauri Pine
<i>Angophora illoribunda</i>	Rough Barked Apple
<i>Araucaria cunninghamia</i>	Hoop Pine
<i>Araucaria cookii</i>	Christmas Tree
<i>Banksia serrata</i>	Old Man Banksia
<i>Eucalyptus botryoides</i>	Bangalay
<i>Ficus coronata</i>	Sandpaper Fig
<i>Ficus rubiginosa</i>	Rusty Fig
<i>Glochidion ferdinandi</i>	Cheese Tree
<i>Livistona australis</i>	Cabbage Palm
<i>Melaleuca quinquenervia</i>	Broad Leaf Paperbark
<i>Toona australis</i>	Red Cedar

Low Shrubs, Groundcovers and Climbers

<i>Acacia cultivars</i>	Wattle
<i>Banksia cultivars</i>	Banksia
<i>Carpobrotus glaucescens</i>	Pig Face
<i>Clematis glycinoides</i>	Old Man's Beard
<i>Grevillea cultivars</i>	Grevillea
<i>Hardenbergia violacea</i>	False Sarspanilla
<i>Kennedia rubicunda</i>	Dusky Coral Pea
<i>Pratia purpurascens</i>	White Root
<i>Scaevola calendulacea</i>	Dune Fan Flower
<i>Scaevola ramosissima</i>	Purple Fan Flower
<i>Westringia cultivars</i>	Coast Rosemary

Rushes / Grasses

<i>Dianella caerulea</i> 'King Alfred'	Flax Lily 'King Alfred'
<i>Dichelachne crinita</i>	Longhair plume grass
<i>Doryanthes excelsa</i>	Gymea Lily
<i>Juncus usitatus</i>	Common Rush
<i>Lomandra hystrix</i> 'Katie Belles'	Longleaf Mat Rush
<i>Lomandra longifolia</i> 'Katrinus Deluxe'	Spiny Headed Mat Rush
<i>Pennisetum alopecuroides</i> 'Purple Lea'	Fountain Grass 'Purple Lea'

Residential Courtyards

Botanic Name	Common Name
Trees	
<i>Backhousia myrtifolia</i>	Cinnamon Myrtle
<i>Cupaniopsis anacardioides</i>	Tuckeroo
<i>Elaeocarpus reticulatus</i>	Blueberry Ash
<i>Glochidion ferdinandi</i>	Cheese Tree
<i>Lagerstroemia indica</i>	Crepe Myrtle
<i>Melia azedarach</i>	White Cedar
<i>Sapium sebiferum</i>	Chinese Tallowood
<i>Tristanopsis laurina</i>	Water Gum
Shrubs	
<i>Diets robinsoniana</i>	Wedding Lily
<i>Helichrysum patulare</i>	Licorice Plant
<i>Myoporum parvifolium</i> 'Yareena'	Creeping Boobialla
<i>Lomandra hystrix</i> 'Katie Belles'	Longleaf Mat Rush
<i>Lomandra longifolia</i> 'Katrinus Deluxe'	Spiny Headed Mat Rush

Groundcovers / Climbers

<i>Dichondra repens</i>	Kidney Weed
<i>Hardenbergia violacea</i>	False Sarspanilla
<i>Viola hederacea</i>	Native Violet
Ferns	
<i>Asplenium nidus</i>	Birds Nest Fern
<i>Blechnum cartilagineum</i>	Gristle Fern
<i>Doodia aspera</i>	Prickly Rasp Fern
Rushes / Grasses	
<i>Crinum pedunculatum</i>	Crinum Lily
<i>Dianella caerulea</i>	Blue Flax Lily
<i>Dianella revoluta</i>	Mauve Flax Lily
<i>Doryanthes excelsa</i>	Gymea Lily

Swale

Botanic Name	Common Name
Trees	
<i>Eucalyptus robusta</i>	Swamp Mahogany
<i>Melaleuca quinquenervia</i>	Broad Leaf Paperbark
Rushes / Grasses	
<i>Dianella caerulea</i>	Flax Lily
<i>Dichelachne crinita</i>	Longhair plume grass
<i>Juncus usitatus</i>	Common Rush
<i>Lomandra hystrix</i>	Longleaf Mat Rush
<i>Lomandra longifolia</i>	Spiny Headed Mat Rush
<i>Pennisetum alopecuroides</i>	Fountain Grass

Planting character

