

# MANCHESTER ROAD AUBURN

LANDSCAPE CONCEPT PACKAGE - OPTION 7a



## 1.0 The Big Picture

The Duck River catchment flows to the Parramatta River covering an area of approximately 104 square kilometres. Duck River is tidal from its mouth at Parramatta River to the Clyde Weir near the Main Western Railway Line at Granville, and freshwater above the weir. The Upper Duck River (which includes the Manchester Road site) is surrounded by a majority of public land owned and managed by Cumberland Council and further upstream by the City of Canterbury Bankstown. Major landowners include State Rail Corporation, Australia Post, and others.

The Duck River wetlands are of regional conservation significance, providing home to three Endangered Ecological Communities and several threatened species, and are highly valued by the local community. The subject area provides opportunities for passive recreational activities, and is surrounded by numerous sporting facilities and playing fields. Overall, however, the corridor and its wetlands are in a degraded condition with numerous environmental and hydrological issues.

The Duck River corridor is a priority project for the "Green Grid" and the work proposed will go a long way toward realising the vision for the corridor.

The Manchester Road proposal includes a detailed vegetation management action program for about 210m of the Duck River corridor opposite the Manchester Road residential development. High priority actions include;

- 1. provision of the "missing Link" of shared use footpath/cycleways along this section of River
- 2. controlling weeds with bushland regeneration techniques,
- 3. revegetation planting,
- 4. control of pollutants at the source,
- 5. new open space parkland,
- 7. community education and interpretive signage
- 8. Crime Prevention Through Environmental Design

All works will be undertaken according to the recommendation provided in the Masterplan for the Duck River Catchment (prepared for Parramatta City Council by Applied Ecology June 2012.



## 1.1 Duck River Walkthrough M4 ..... Parramatta Road · · · · · Rail Line ··· Blaxland Riverside Park Silverwater Road Parramatta River \*\*\*\*\* Manchester Road Project Boundary ···· Mona Park Auburn Botanic Gardens Ray Marshall Reserve Progress Park Auburn Golf Club context







Central Reserve opp. Auburn Golf Course





Duck River - Mona Street Bridge Mona Park Bike Path



Bangor Park, Auburn





Sheffield St, Cnr Payce Land



9

George Parry Oval - Mona Park



Bangor Park, Auburn

37.5 metres South West



Duck River from Manchester Rd

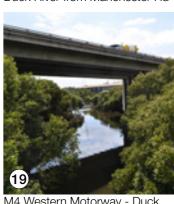


Flying Fox Colony

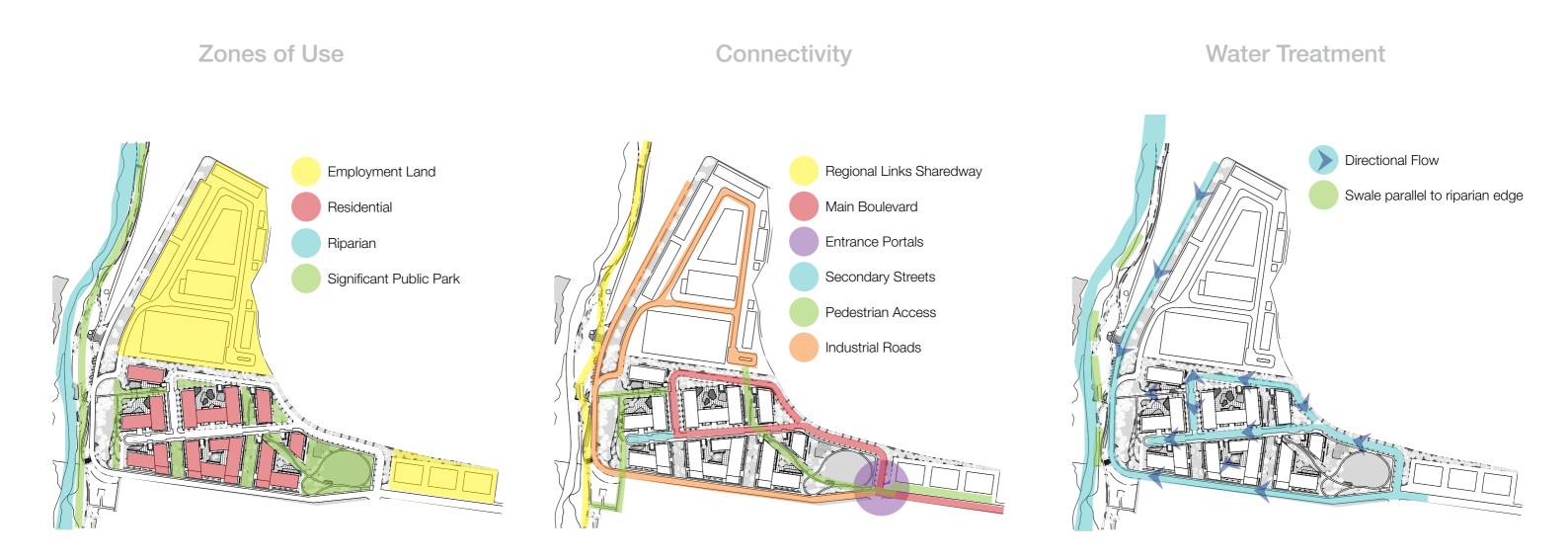


Duck River Bridge at Clyde - 1833-1836





M4 Western Motorway - Duck River, Clyde



## 3.0 Landscape Concept Plan

The landscape concept master plan encapsulates the entire PAYCE site including the Duck River Rehabilitation zone and adjacent streetscapes.

The Site incorporates 7 major zones;

- 1 Duck River Riparian Corridor
- (2) Employment Lands
- (3) Duck River Park
- (4) Residential
- 5 Streetscapes
- 6 Pedestrian Laneways (shaded green links).
- Extents of upgrade to the Duck River Riparian Corridor

In broad terms, the landscape mimics the natural gradation of planting types as it radiates away from the riverside with riverside species dominating in the west and streetscapes fronting the river. Further from the river, a greater diversity of species is used including the introduction of deciduous exotics such as Jacaranda and Crepe Myrtle to add colour and allow winter sun to penetrate.



## 3.1 Duck River Rehabilitation

As an integral part of the Manchester Road development, Payce propose to rehabilitate the bushland and wetland zones of the Duck River, connect and complete the missing link of the Duck River corridor shared path for pedestrian and cyclists, and provide grassed parkland open space outside of the bushland management zones and adjacent to the shared path. The rehabilitation process will have five components;

#### **Bushland Regeneration**

The remnant Coastal freshwater Wetland, Cumberland Riverflat and Cumberland Swamp Oak Forest vegetation communities are all listed as Endangered Ecological Communities (EEC's). However they are severely degraded and remnant trees along the Duck River corridor to the west of the site are not regenerating due to the thick weed occurrence.

PAYCE will engage professional bushland regenerators to undertake bushland regeneration of all bushland areas along the river's edge where there is existing native canopy

Using the 'Bradley method' of bush regeneration, sites along the riparian corridor with remnant trees will be methodically cleared in small patches so that the area can be initially re-colonised by the seed shed from existing trees. Strategic infill planting will introduce shrub and groundcover species that have been lost.

A staged removal of weeds is recommended, generally starting with woody weeds and shrubs, then ground layer weeds. Noxious weeds should be treated as the first priority. Follow up weed control during the recovery phase will be carried out and is essential to a Bushland Regeneration program.

Three main principles will guide the bushland regeneration;

- 1 secure the best areas first. They are the easiest to work with the best results. They are the core areas that can then be expanded.
- 2 minimise disturbance to the natural conditions (e.g. minimise soil disturbance and off-target damage).
- 3 don't over clear let the regeneration of the bush set the pace of clearance.

#### Revegetation Planting

Where there is little or no native species present, additional revegetation planting of species selected from the EEC's will improve connectivity between adjoining areas of better bushland. Revegetation also applies to the wetland areas where a fringing buffer of native vegetation will be the best approach in managing the protection of the wetlands. If stabilisation is required on any of the steep banks, organic fibre mesh will be used in conjunction with the revegetation planting. In other areas, wood waste mulch will be used to aid establishment and control weeds.

### Open Space Parkland

Where there is no existing bushland or only tree weeds present, PAYCE will create a clear delineation between the Bushland Management Zones and introduce grassed open space parkland with indigenous shade trees for community benefit. These areas will be mostly adjacent to the shared path, but where appropriate, will extend to allow public access to the river's edge. a "Lookout" will be constructed near the water's edge where residents will be able to picnic and relax, and shelters will provide protection from sun and rain. Park seating will be installed throughout the park in strategic locations.

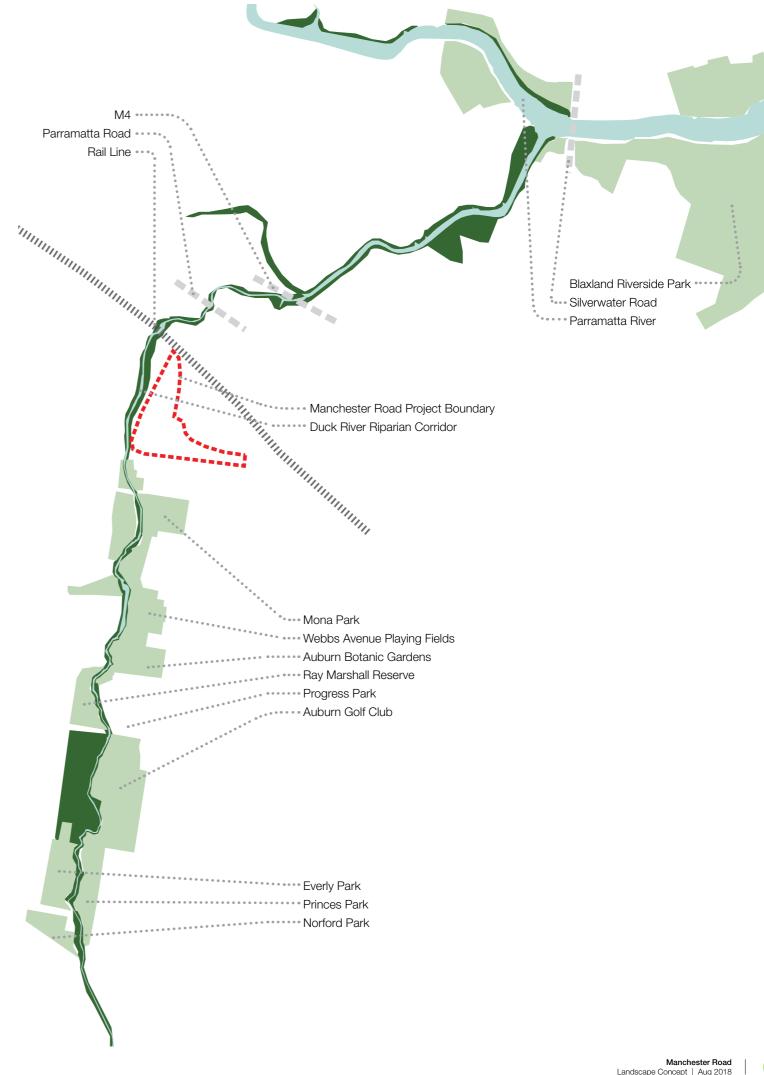
Interpretative signage will be installed to inform users of local features such as the Flying Fox Colony and the importance of the river's regeneration in the wider context of the Parramatta River Catchment and Sydney Harbour.

A series of high quality Exercise Stations with clear instructions on how to use it will be installed in close proximity to the shared path at a strategic distance apart so that the shared path is also used as an Exercise Trail and will continue a circuit that begins from within the residential development. Outdoor Lighting will be integrated within the park, the bridge, shared path and the riverside edge of Manchester Road to ensure passive surveillance at night-time and extend the use of the park into the evenings.

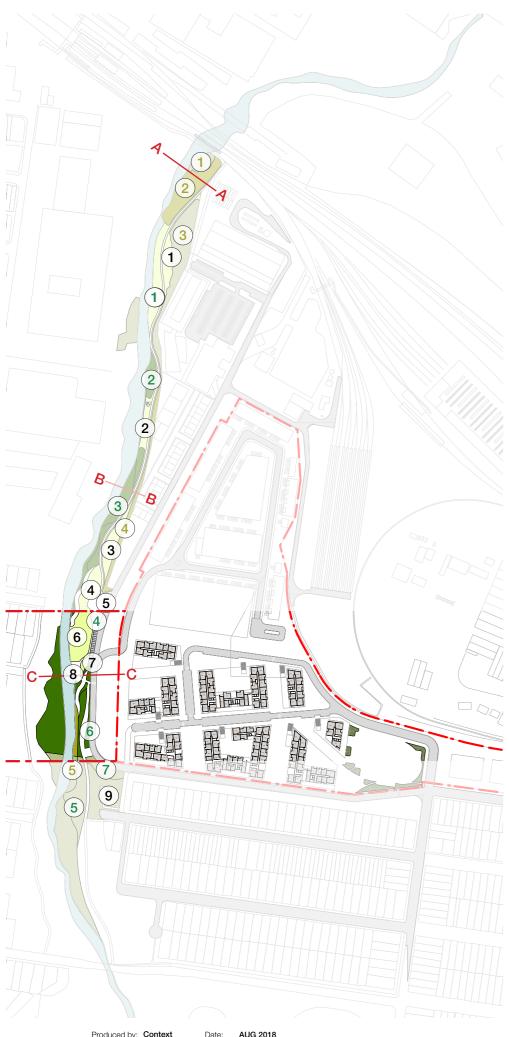
#### **Shared Path**

A new 3.0m wide shared path will be installed between the existing shared path where it terminates at Mona Park, and in line with the northern edge of the reidential development. Pedestrians and cyclists will have access to an increased extent of the river.

In the future, the path can be extended to provide access to Clyde station and the Olympic Peninsula.



## **3.1.1** Duck River Rehabilitation



Local provenance species will be used for replanting where possible. The species list will include the following indicative species:

Cumberland Riverflat Forest

#### Trees and Shrubs

Acacia decurrens
Angophora floribunda
Bursaria spinosa
Eucalyptus amplifolia
Eucalyptus baueriana
Eucalyptus saligna
Eucalyptus tereticornis
Hibiscus heterophyllus
Leucopogon juniperinus
Ozothamnus diosmifolius
Persoonia linearis

#### Vines and Groundcovers

Clematis glycinoides Cyperus laevis Desmodium varians Dianella longifolia Dichondra repens Echinopogon caespitosus Echinopogon ovatus Einadia hastata Einadia trigonos Entolasia marginata Eragrostis leptostachya Lomandra longifolia Microlaena stipoides Brunoniella australis Veronica plebeia Wahlenbergia gracilis

Cumberland Swamp Oak Riparian Forest

#### Trees and Shrubs

Acacia decurrens
Eucalyptus crebra
Melaleuca styphelioides
Angophora floribunda
Breynia oblongifolia
Bursaria spinosa
Casuarina glauca
Jacksonia scoparia
Maytenus silvestris
Melaleuca decora
Melaleuca nodosa
Ozothamnus diosmifolius
Polyscias sambucifolia

#### Vines and Groundcovers

Arthropodium milleflorum
Billardiera scandens
Carex appressa
Dianella longifolia
Alternanthera denticulata
Clematis glycinoides
Dianella revoluta
Dichelachne micrantha
Echinopogon ovatus
Eclipta platyglossa
Einadia hastata
Eleocharis cylindrostachys
Eragrostis leptostachya
Gonocarpus tetragynus
Goodenia ovata

## Legend

Revegetation Planting

Bushland Regeneration

Open Space Parkland

Duck River

#### **Revegetation Planting**

Cumberland Swamp Oak Forest

2 Cumberland Riverflat Forest & Cumberland Swamp Oak Forest

3 Cumberland Riverflat Forest & Cumberland Swamp Oak Forest

4 Cumberland Swamp Oak Forest

5 Cumberland Swamp Oak Forest

6 Cumberland Swamp Oak Forest

7 Cumberland Swamp Oak Forest

#### **Bushland Regeneration**

Cumberland Swamp Oak Forest

2 Cumberland Swamp Oak Forest

3 Cumberland Swamp Oak Forest

4 Cumberland Riverflat Forest & Cumberland Swamp Oak Forest

5 Cumberland Swamp Oak Forest

## Open Space Parkland

(1) Cumberland Swamp Oak Forest

2 Cumberland Swamp Oak Forest

3 Cumberland Riverflat Forest & Cumberland Swamp Oak Forest

4 Cumberland Swamp Oak Forest

(5) Cumberland Swamp Oak Forest

(6) Cumberland Swamp Oak Forest

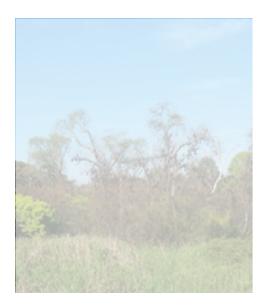
7 Cumberland Swamp Oak Forest

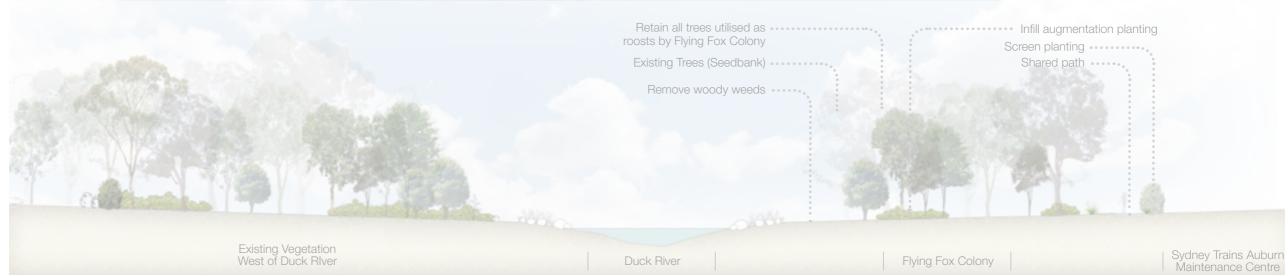
8 Cumberland Swamp Oak Forest

**a** 

9 Cumberland Swamp Oak Forest

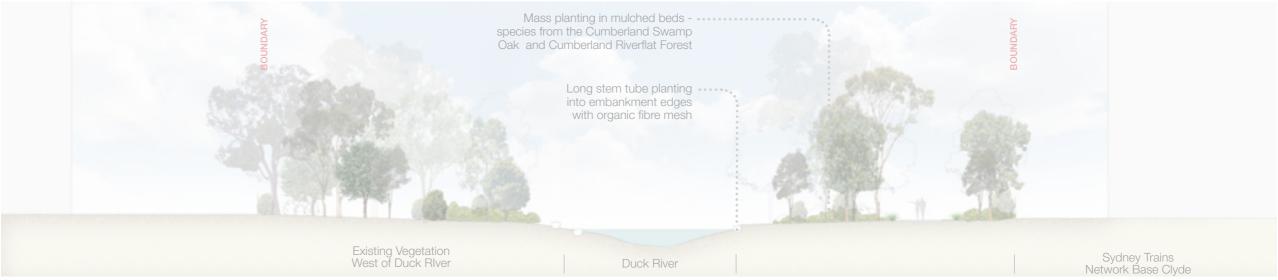
## 3.1.2 Duck River Rehabilitation Sections



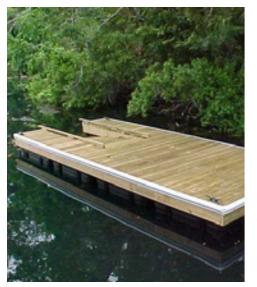


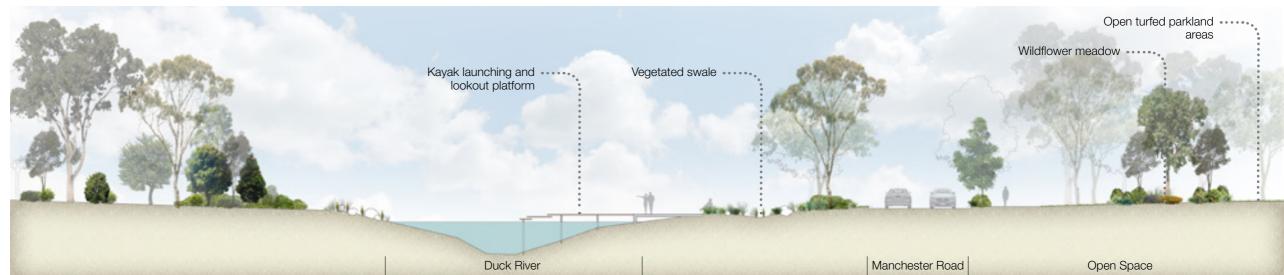
Section AA - Bushland Regeneration





Section BB - Revegetation Planting





Section CC - Open Space Parkland

## 3.2 Central Park

The Central Park provides the site with ample public open space suitable for active recreation. The landscape for Central Park mediates between the riparian corridor's vegetation and the landscape deeper within the development by using shade tree species within the park will be selected from the local vegetation communities and include Angophora floribunda (Rough-barked Apple), Eucalyptus amplifolia (Cabbage Gum), Eucalyptus baueriana (Blue Box) and Eucalyptus tereticornis (Forest Red Gum). The Park creates pleasant views from the apartments to the east and provides a partial landscape buffer zone between the Clyde Marshalling Yards and residential zone. The park also acts as a sponge to store and slow storm water brought to it by the fringing water quality swale.

The park provides a venue for moonlight cinema, community / Farmers' markets, community gardens and an outdoor gym.















## Legend

01 500m running track

02 Outdoor Gym

03 Shade Trees

O4 Open Active Turf Area

05 Secondary Breakout Space

06 Shelters

07 Community Gardens

## 3.3 Pedestrian Laneways (Shaded Green Links)

The wide pedestrian laneways between buildings that connect traffic streets have been designed to provide much of the public passive recreational open space for the community. The proximity to residential buildings provides a particular microclimate suited to rainforest plantings. Plantings will include tree ferns, ground ferns, Cordylines, Gingers, Coachwoods, Blueberry Ash, Lemon-scented Myrtle and Firewheel Trees, creating cool restful spaces. Terraces on various levels connected with seating steps and timber platforms will provide ample opportunities for low-impact activities and places to linger.















### Legend

- Meditative Fitness area
- Deep Soil Planting
- Planting on Podium
- Breakout spaces
- 05 Informal seating
- Turf area

context

Pedestrian Crossings

## 3.4 Residential Area

Residential areas in the western zone will interface with the railway yards on the eastern side. The outdoor space will be defined by natural materials with the major element being the recycled sandstone blocks which will be used to retain garden and patio terraces for both private and public spaces.



## Legend

- 01 Reused sandstone Elements
- Feature Planting at Apartment Entrances
- 03 Shade Trees
- Open Lawn Area
- Feature Breakout Space
- 06 BBQ Area
- 07 Linking Path













## 3.4.1 Residential - Western Zone - Sections

## Section AA

Communal open space between buildings



Section BB Main boulevard



Section CC Green link and adjacent communal open space



## 3.5 Employment Land













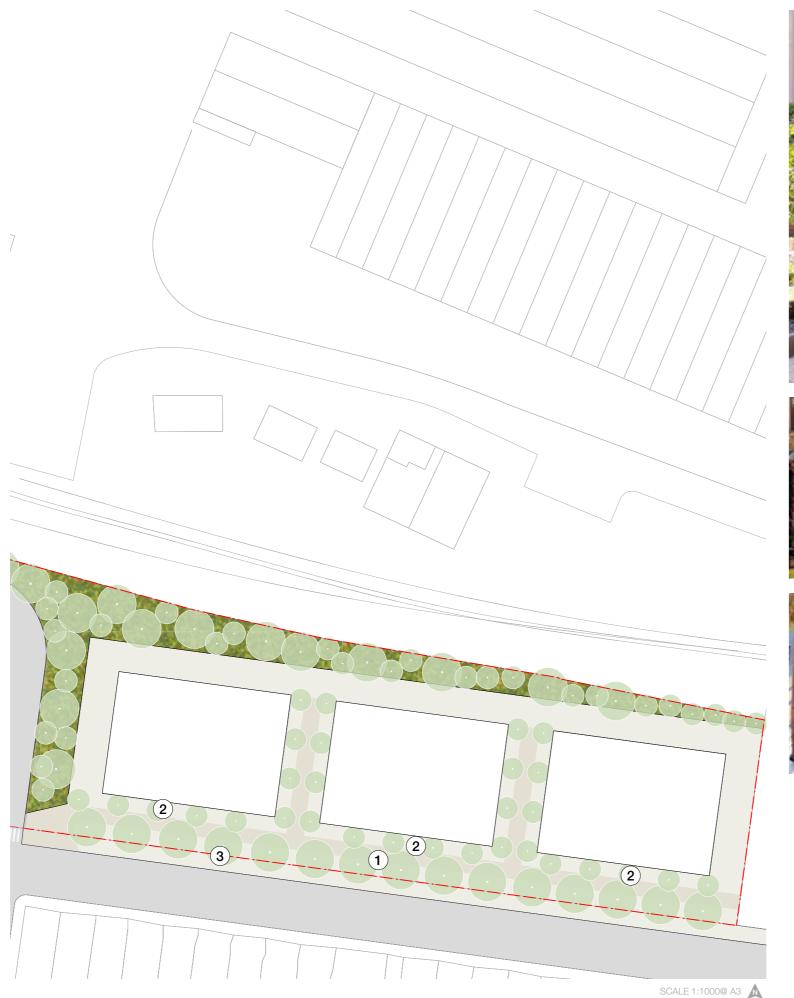


## 3.5.1 Employment Land - South

An employment area of about 1Ha ilocated to the east is set aside to provde space for offices and workshops.

A pedestrian boulevard adjacent to Manchester Road and pedestrian linkages through Central Park will provide attractive accessways between the employment and residential areas, while maintaining distinct landscape characters and separation between the two.

There will be public seating available for casual gathering. In addition moveable seating will allow the users to create space and make it their own and take positions in the shade of the deciduous trees or otherwise, extending the time that people will tend to linger on the boulevard.



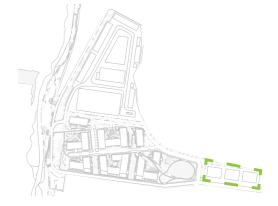












## Legend

- 01 Pedestrian Boulevard
- 02 Meeting/Seating nodes
- 03 Deciduous Trees

## **4.0** Planting Schedule

Botanical Name	Common Name
Native Trees	Common Name
lelaleuca styphelioides	Prickly Paperbark
cacia decurrens	Green Wattle
ngophora floribunda	Rough barked Apple
asuarina glauca	Swamp She Oak
ıcalyptus amplifolia	Cabbage Gum
ucalyptus baueriana	Blue Gum
ucalyptus saligna	Sydney Blue Gum
ucalyptus tereticornis	Forest Red Gum
Exotic Trees	
acaranda mimosafolia	Jacaranda
agerstromeia 'Natchez'	Crepe Myrtle
agerstromeia 'Tuscarora'	Crepe Myrtle Bull Bay Magnolia
lagnolia grandiflora latanus x acerifolia	Plane Tree
lumeria rubra	Frangipani
ibouchina 'Alstonville'	Lasiandra
istaniopsis laurina	Water Gum
lmus parvifolia	Chinese Elm
ative Wildflowers, Shrub	
ctinotus helianthii	Flannel Flower
rthropodium milleflorum	Vanilla Lily
arex appressa	Tall Sedge
lematis glycioides	headache Vine
oronidium scorpioides	Button Everlasting
anella caerulea	Blue Flax Lily
ichelachne micrantha	Short Hair Plume Grass
ragrostis leptostachya	Paddock Love Grass
onocarpus tetragynus	Common Rasport
oodenia ovata	Hop Goodenia
elichrysum cultivars	Straw Flowers
olepis nodosa	Knobby Club Rush
uncus usitatus	Common Rush
omandra longifolia	Mat Rush
licrolaena stipoides yzygium 'Cascade'	Wallaby Grass Powderpuff Lily Pily
eronica plebeia	Trailing Speedwell
/ahlenbergia gracilis	Native Bluebell
edestrian Laneways (Sha	
diantum aethiopicum	Maidenhair fern
locasia macrorhiza	Cunjevoi
loxyllon flammeum	Tree Waratah
ngiopteris evecta	Gigantic Fern
nopterus macleayanus	Macleay Laurel
lechnum brasiliense	Water Fern
rachychiton bidwillii	Little Kurrajong
ryptocarya laevigata	Glossy Laurel
yathea cooperi	Cicatrice Tree fern
oodia aspera	Rasp Fern
indersia australis	Crows Ash
ymnostachs anceps	Settlers Flax
bertia paniculata	Branching Grass-flag
gularia reniformis	Tractor-seat Plant
acrozamia communis	Burrawang
eomarica gracilis	Apostle Iris
ogonatherum paniceum	Bamboo Grass
andia fitzalanii	Native Gardenia
pathiphyllum cultivar	"Petite"
tenocarpus sinuatus	Firewheel Tree
rachelospermum	Star Jasmine
sminoides	Zanzibar Gem
mioculcas zamiifolia	Zanzinar taom

### **NATIVE TREES**













Eucalyptus crebra Ironbark



Eucalyptus amplifolia Cabbage Gum



Sydney Blue Gum



Eucalyptus teteticornis Forest Red Gum

Prickly Paperbar

### **EXOTIC TREES**





Rough-barked Apple













Ulmus parvifolia Chinese Elm Lasiandra

NATIVE WILDFLOWERS, SHRUBS, SEDGES + GRASSES





















Goodenia ovata Hop Goodenia















Powderpuff Lilly Pilly

## PEDESTRIAN LANEWAYS (SHADED GREEN LINKS)



















Cicatrice Tree fern



Rasp fern



Brachychiton bidwillii

Little Kurrajong



Randia fitzallanii



Anopterus macleayanus Macleay Laurel