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Landscape Masterplan Report - REV B

Prepared for Legacy Property

Project Reference: 2516076 January 2017



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Blacktown Manly THE SITE Western Parklands Sydney Airport**

INTRODUCTION

PLACE Design Group have been engaged by Legacy Property to provide landscape DA documentation for stages 5 & 6 of the Caddens Hill Development, in Caddens, Penrith, NSW. The scope of this document includes a Basin which will form part of the future sports precinct.

This document is intended to assist in defining the development and landscape character of Caddens Hill and to guide the future development of the site. It is intended that Caddens Hill will provide a quality sustainable development that recognizes and interprets the rural character, landscape features and undulating topography of the site. It will create special places centred on public amenity such as the Hill Top Park with elevated views across the development and district.

The landscape Design as set out in this DA Report is intended to:

- Provide high quality, low maintenance public domain which affords the community with a high level of amenity and creates a strong sense of place for the development.
- · Create attractive streetscapes which retain and enhance significant views and vistas, landmark elements and Landscape Features and;

- Ensure continuity of design not only from Stage 1,2 ,3 and 4 but also the adjacent UGNSW Caddens site
- Create a strong sense of arrival and identity for the site through the use of linear avenues of trees (various *species*) that characterise the streetscapes.
- Through carefully planted basins, provide habitat for a range of native wildlife and meet sustainability and ecological benchmarks across the site.

View from O'Connell Street Looking South Towards Stage 5

GoogleMap Location of the Site, NSW



View from O'Connell Street Looking South West Towards Stage 6



NOT TO SCALE NORTH

View from O'Connell Street Looking South East Across Stage 6



Images taken from GoogleMaps

STAGING PLAN & DOCUMENT REFERENCES

Control Documents:

Penrith DCP 2014 Volume 2 E1 Caddens

1.3 The Public Domain

Figure E1.7a-j

- 1) Key pedestrian and cycleway routes are to be provided generally in accordance with Penrith Development Control Plan 2014 E1 Caddens E1 - 25 Figure E1.8.
- reserve is to be in accordance with Figure E1.7.
- 4) The minimum width of pedestrian footpaths is
- Walking and Cycling (DOP & RTA 2004).

1.3.5 Open Space, Environmental Conservation and Landscape Network

Figure E1.10 – Open Space and Environmental Conservation Network

Figure E1.11 – Eastern Hilltop Park Concept

Figure E1.14 – Active open space concept

Figure E1.15 – Detention Basins Concept

- 7) The 0.35 hectare Eastern Hilltop Park located on the ridgeline to the east of the site is to present as natural woodland. It is to incorporate the following elements as illustrated in Figure E1.11:
- a) heritage interpretation of the ruins of the 19th century farmhouse and re-use of materials where appropriate;
- b) viewing platforms to other vantage points within Caddens and beyond;
- c) an informal kick about space on the flatter land;
- d) accessible paths where possible;
- e) seating areas and shade structures;
- f) canopy trees;
- g) existing trees, Cumberland Plain Woodland species as well as other endemic robust native plant species and where necessary saline-tolerant species; and
- h) low maintenance and robust finishes.

Associated Consultant Documents:

Caddens Hill Project Stage 1 to 7 Soil Investigation by SESL (October 2016)

Background Information

• DCP - Penrith City Council. Items for the site include:

1.3.3 Pedestrian and Cycle Network

Figure E1.6 – Street Hierarchy

Figure E1.8 – Pedestrian & Cycle Routes

- 2) The design of cycleways located within the road
- 3) The minimum width of off-street shared cycle and pedestrian pathways is to be 2.5m (as shown in Figure E1.7g).
- 5) All pedestrian and cycleway routes and facilities are to be consistent with the Planning Guidelines for

View from O'Connell Street Looking at the Proposed Location for Basin C

STAGE 1

DETENTION.

BASIN A

STAGING PLAN



STAGE 6

HILL TOP

STAGE 4

DETENTION

BASIN B

View of O'Connell Street Existing Trees

DETENTION!

BASIN D

STAGE 7

SCALE 1:6000@A3

60m

BASIN C

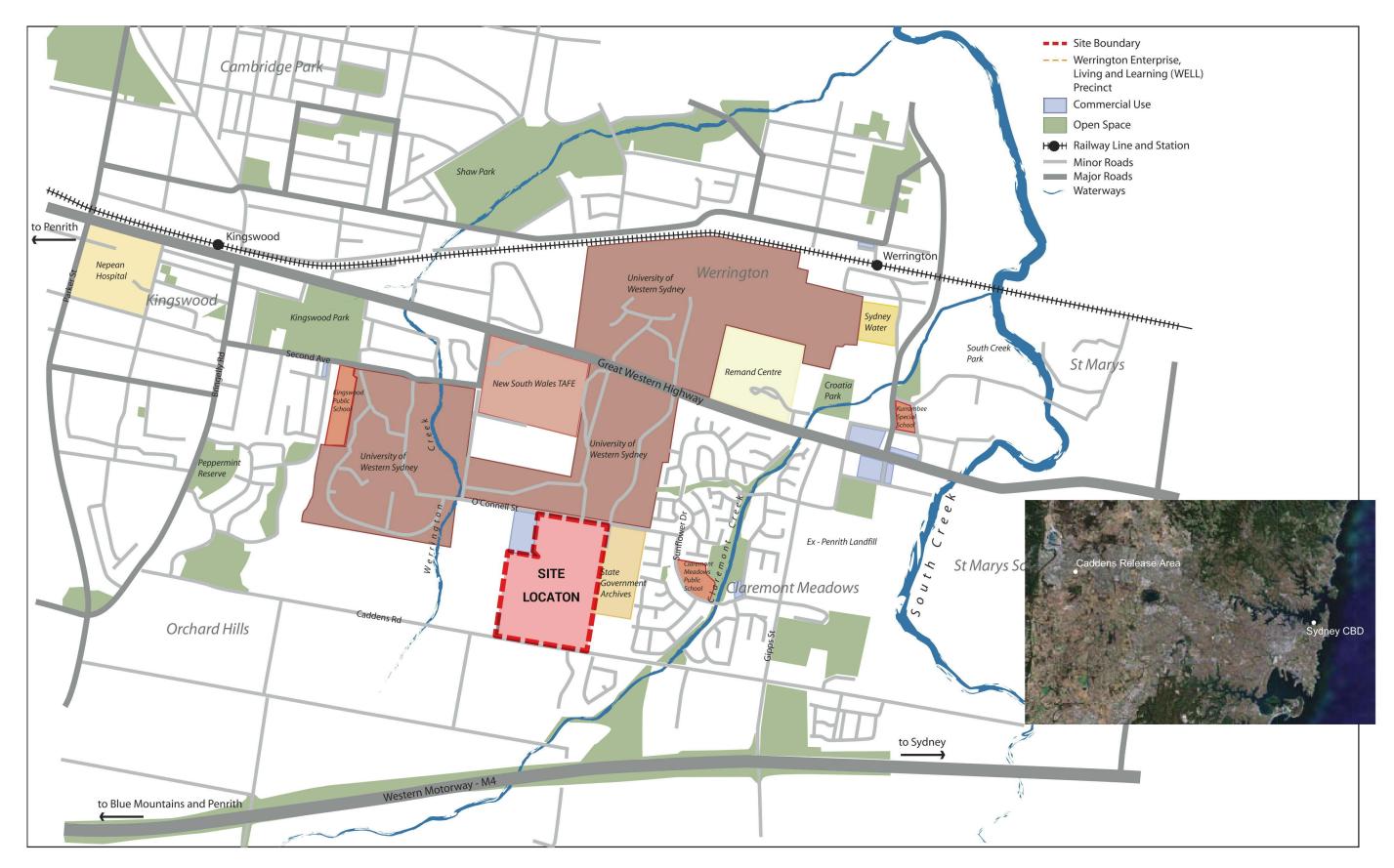
STAGE 3

STAGE 2



Images taken from GoogleMaps

PRECINCT WIDE CONTEXT





STAGES 5 & 6 Hill Top Park SPORTS PRECINCT (FUTURE) Caddens Road

LANDSCAPE ANALYSIS



High Points



Primary Views



Secondary Views



Ridge line

Existing Site Attributes



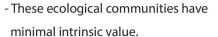
Areas with Expansive Panoramic Views



- Optimise the unique existing views, from the local undulating landscape and rural character extending as far as the Blue Mountains.



Existing Vegetation





Contour Lines at 5m Intervals



Indicative Development Layout



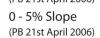
SITE ANAYLSIS

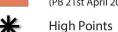


LANDFORM ANALYSIS

Greater than 9% Slope (PB 21st April 2006)



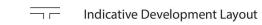












STAGES 5 & 6 MASTER PLAN



SCALE 1:2000@A3

0 20m 100m



STREET TREE LEGEND



Cupaniopsis anacardioides

Waterhousia floribunda 'Green Avenue'

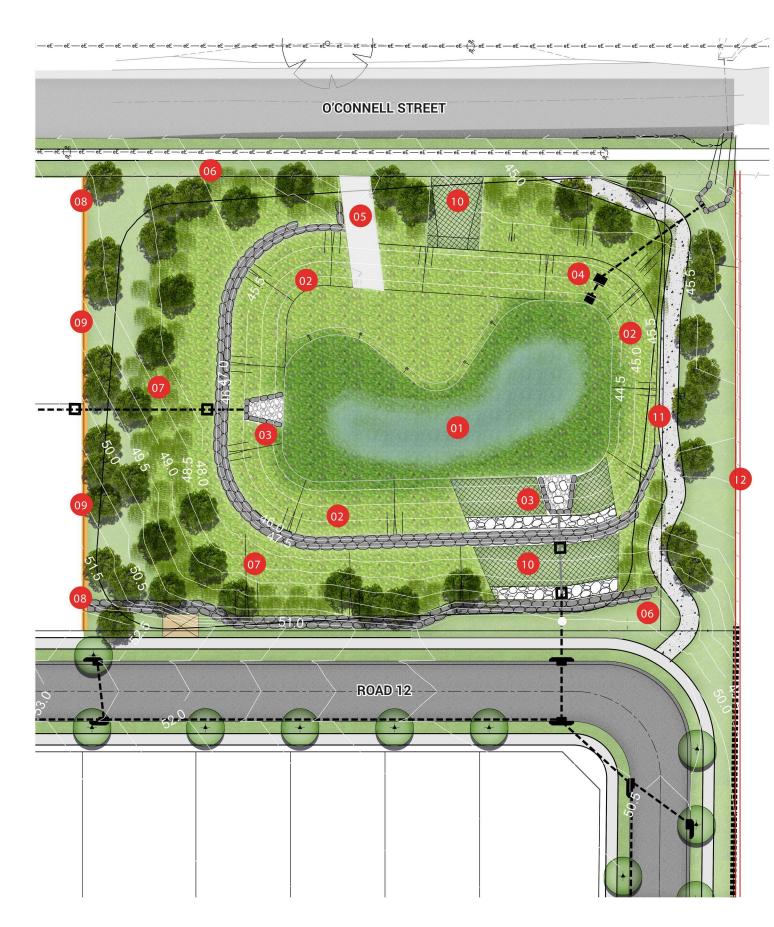
Lagerstroemia indica x L. fauriei 'Natchez'

Backhousia citriodora

Pistacia chinensis

Tristaniopsis laurina 'Luscious'

DETENTION BASIN C



LEGEND

- 01 Rain Garden Bed
- 02 Basin Planting on Batter
- O3 Proposed Basin Inlets
- 04 Proposed Basin Outlets
- 05 Proposed Concrete Maintenance Access
- 06 Grass Batter
- 07 Shrub Buffer Planting
- 08 Concrete Block Retaining Wall & 1.5m High Open Railing Fence on Top
- 09 2m Timber Boundary fence & Masonry brick Piers
- Reinforced Turf
- Proposed Concrete Shared Path
- 12 Existing Fence to Remain



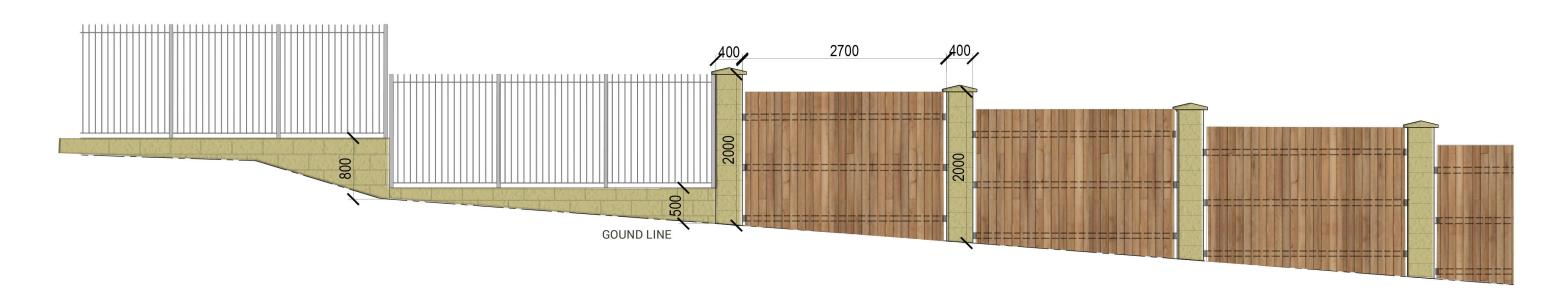
Basin Fence Indicative Details & Image (Charcoal Concrete Block Retaining Wall & 1.5m High Open Railing Fence on Top)

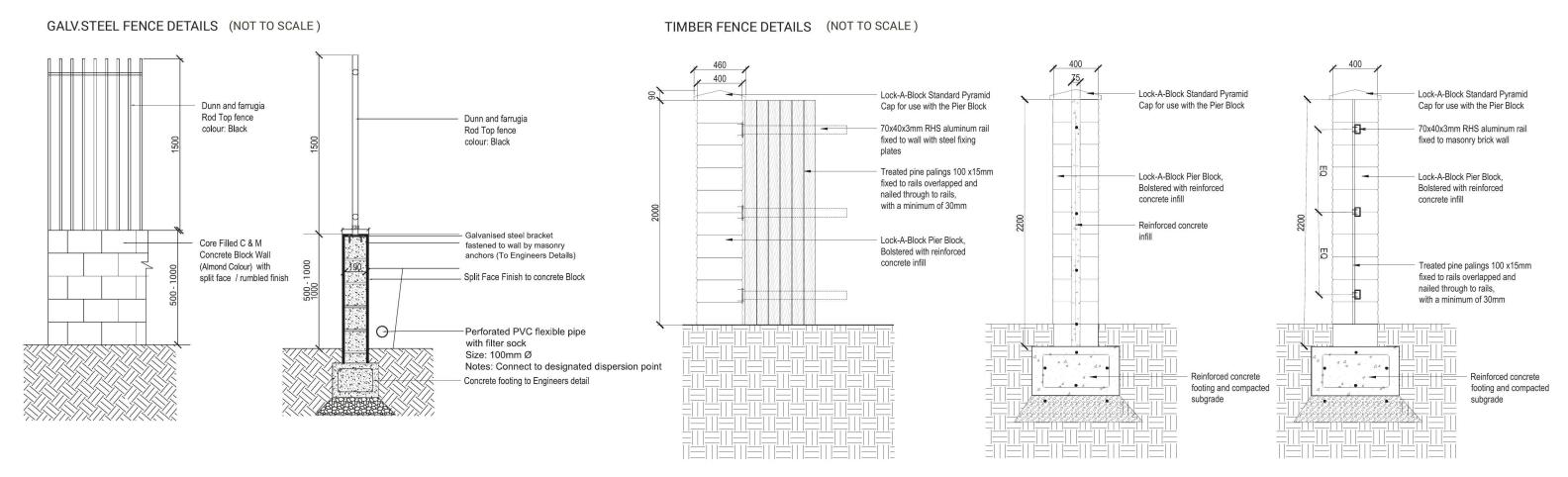




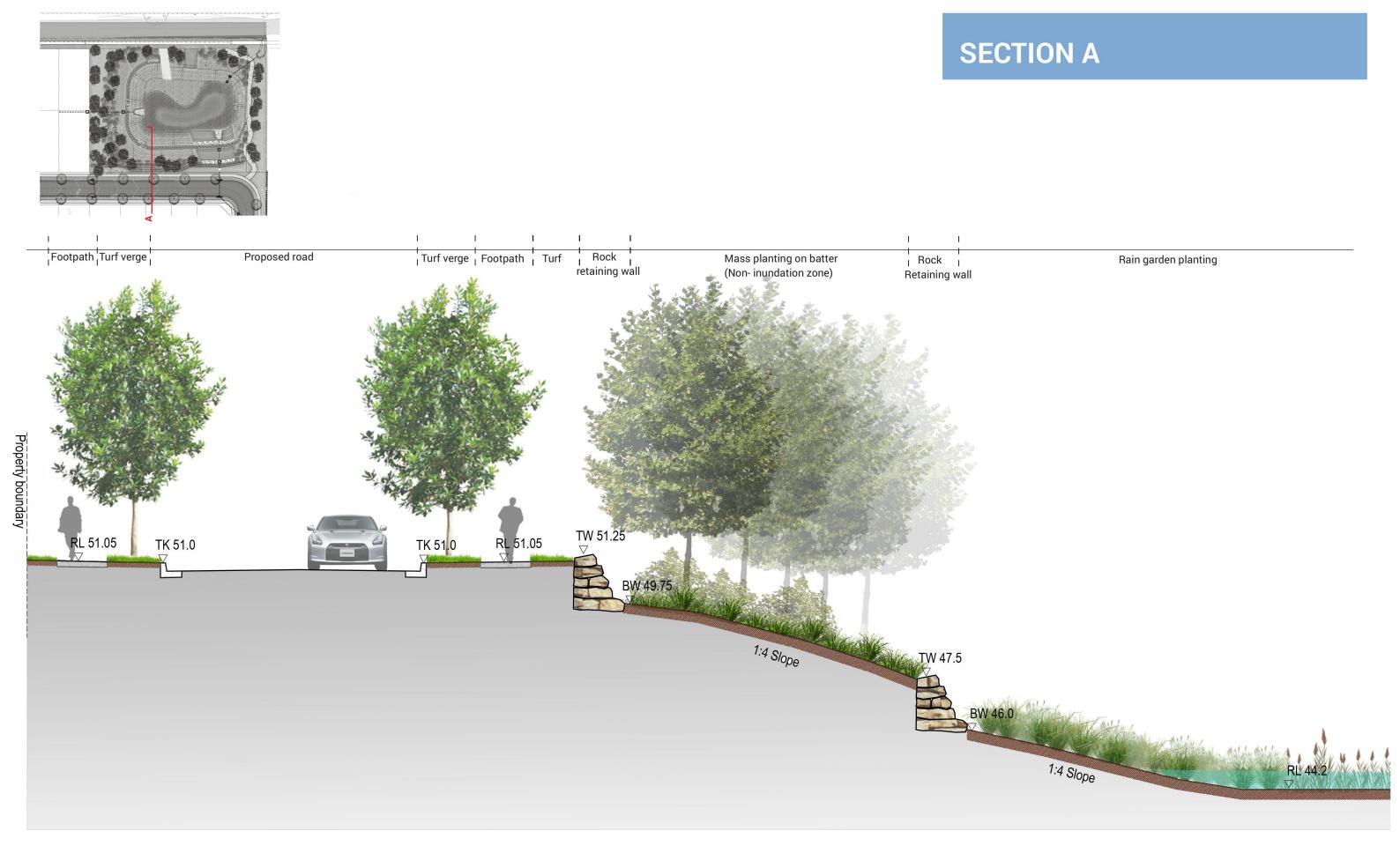






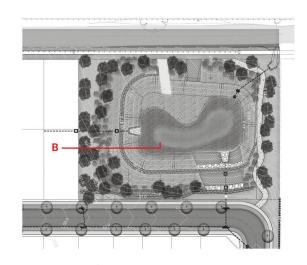


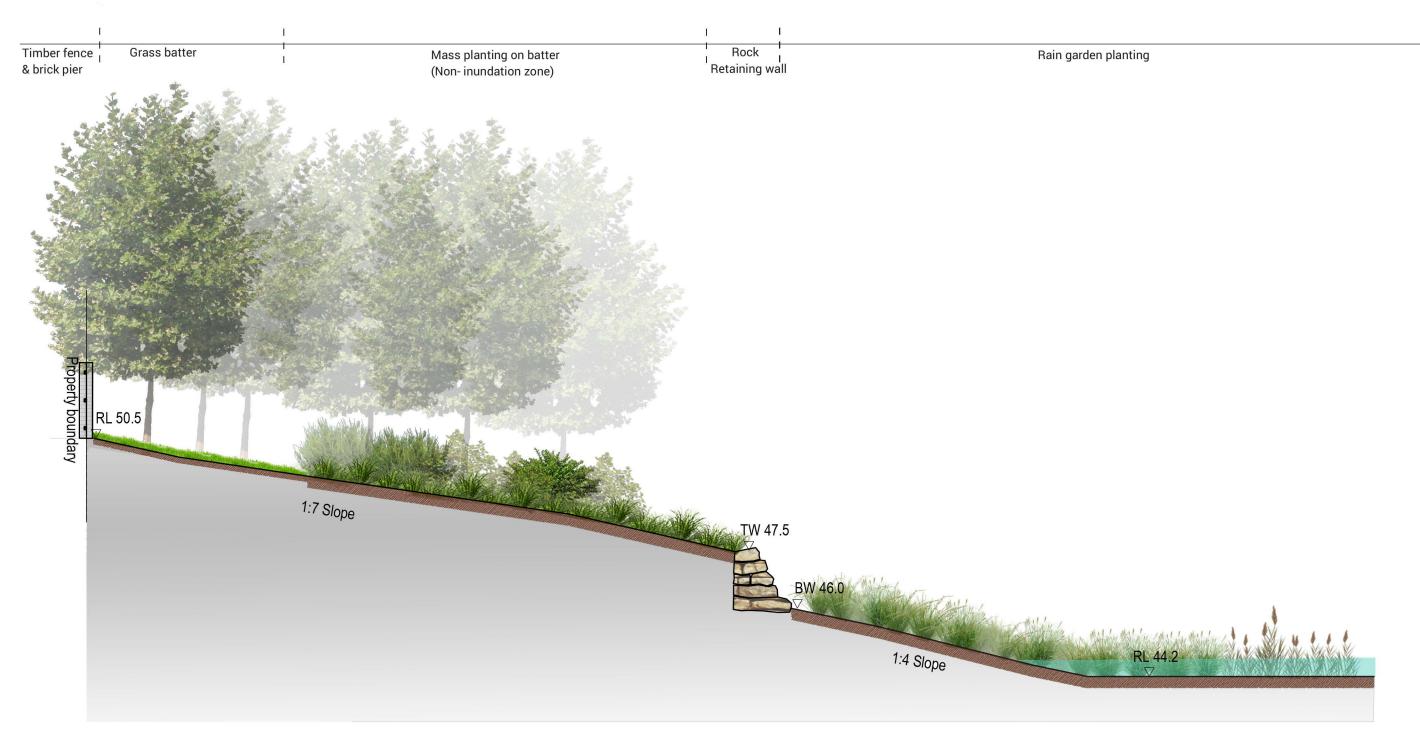






SECTION B

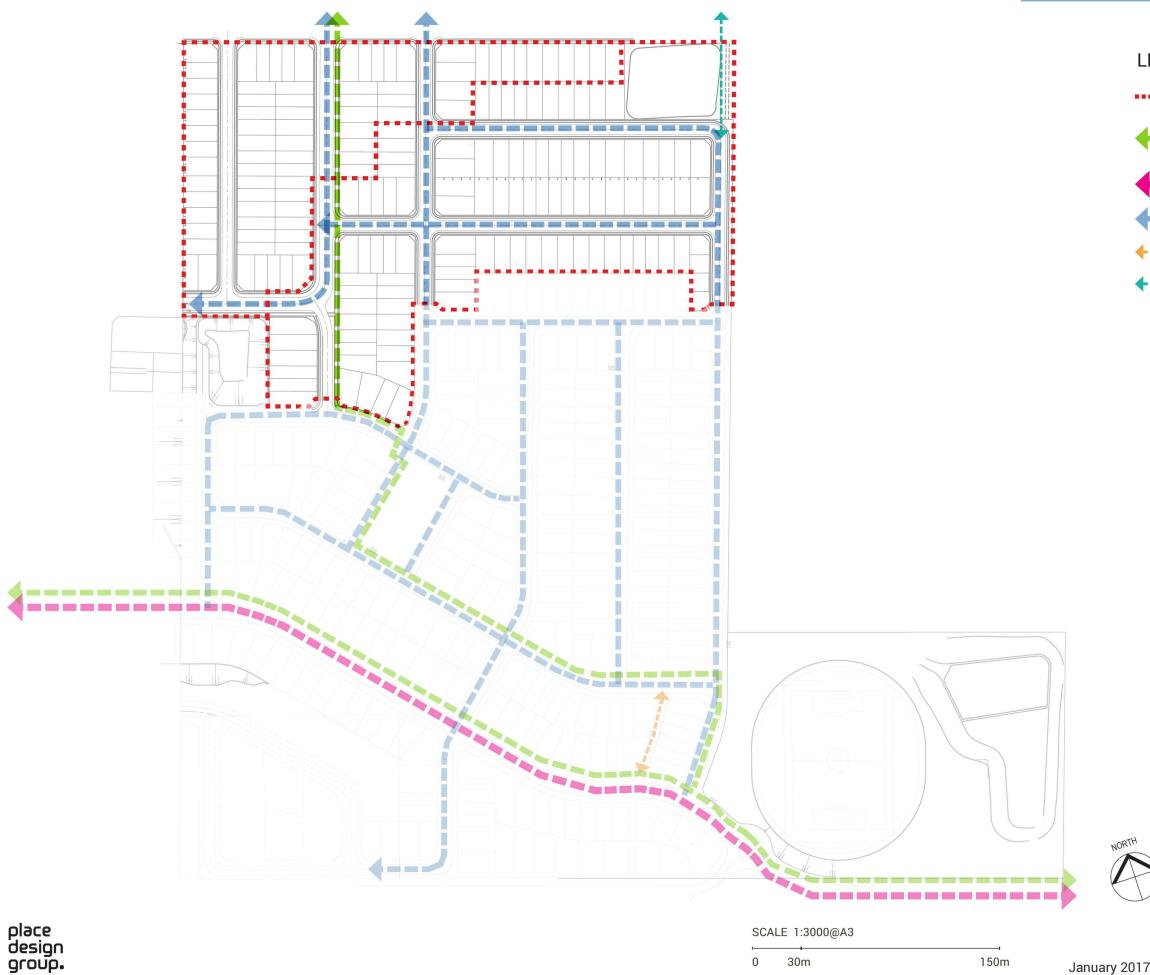


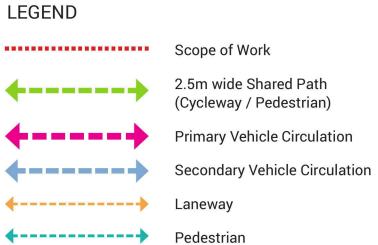




SCALE 1:100@A3 0 1m 5m

CIRCULATION DIAGRAM





PRECEDENT IMAGES

BASIN PRECINCT



















FURNITURE







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0,00	STAGES 5 & 6			
Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2
TREES TO STREETSCAPES				
Packhousia sitriodora	Lomon Murtlo	8m	200L	As Show
Backhousia citriodora	Lemon Myrtle	10.7520,550	100000000000000000000000000000000000000	10.00 00.00
Cupaniopsis anacardioides	Tuckeroo	8m	200L	As Show
Lagerstroemia indica x L. fauriei 'Natchez' Pistacia chinensis	Crepe Mytle Chinese Pistache	8m	100L 100L	As Show
Pistacia chinensis Tristaniopsis laurina 'Luscious'		8m 8m	200L	As Show
Waterhousia floribunda 'Green Avenue'	Watergum Weeping Lilly Pilly	10m	200L	As Show
TREES TO BASIN AREA				
Acacia decurrens	Black Wattle	8m	45L	As Show
Callistemon 'Kings Park Special'	Bottlebrush	5m	45L	As Show
Casuarina glauca	Swamp Oak	10m	45L	As Show
Elaeocarpus grandis	Blue Quandong	10m	45L	As Show
Eucalyptus moluccana	Grey Gum	20m	45L	As Show
Eucalyptus tereticornis	Forest Red Gum	20m	45L	As Show
Eucalyptus sideroxylon 'Rosea'	Pink Ironbark	20m	45L	As Show
Ficus hillii	Fig	25m	100L	As Show
Melaleuca styphelioides	Prickly Leafed Paperbark	8m	45L	As Show
Tristaniopsis laurina 'Luscious'	Watergum	8m	45L	As Show
Syzygium australe	Brush Cherry	8m	45L	As Show
Waterhousia floribunda	Weeping Lilly Pilly	10m	45L	As Show
SHRUBS				
Callistemon 'Captain Cook'	Captain Cook Bottlebrush	1.5m	200mm	1
Callistemon 'Slim'	Slim Bottlebrush	3m	200mm	1
Grevillea 'Honey Gem'	Grevillea Honey Gem	5m	200mm	1
Leptospermum scoparium	New Zealand Teatree	2m	200mm	1
Melaleuca 'Claret Tops'	Honey Myrtle	1m	200mm	3
Nandina 'Obsession'	Sacred Bamboo	0.6m	200mm	3
Westringia 'Aussie Box'	Coastal Rosemary	0.9m	200mm	3
Westringia 'Mundi'	Coastal Rosemary	0.5m	200mm	3
GRASSES TO BASIN / RAIN GARDEN PRECIN	ст			
BANKS				
Baloskion tetraphyllum 'Feather Top'	Feather Rush	0.5m	75mm	4
Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	3
Lomandra 'Tropic Belle'	Lomandra Tropic Belle	0.8m	75mm	2
Poa eskdale	Poa	0.6m	75mm	5
luncus usitatus	Common Rush	0.9m	75mm	5
Pennisetum 'Nafray' Themeda australis	Swamp Foxtail Grass Kangaroo Grass	0.6m 0.5m	75mm 75mm	3
	Nullgaroo Orass	0.3111	75111111	-
GROWING MEDIUM	Washing Clark 2	0.0	75	
Ficinia nodosa	Knobby Club Rush	0.8m	75mm	3
luncus flavidus	Mat Rush	1.0m	75mm	6
Juncus usitatus	Mat Rush	1.0m	75mm	6
Carex appressa	Sedge	1.3m	75mm	4
Lepironia articulata	Grey rush	0.9m	75mm	5
Lomandra 'Shara'	Lomandra Shara	0.5m	75mm	4
Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	3
Turf	<u>'</u>			
Kikuyu Grass	Pennisetum clandestinum			
imaja diuda	. chinactani cianacatinani	-		

TYPICAL PLANT SCHEDULE & INDICATIVE IMAGES



Cupaniopsis anacardioides



Lagerstroemia 'Natchez'





Backhousia citriodora Waterhousia floribunda Pistacia chinensis 'Green Avenue'



Tristaniopsis laurina 'Luscious'



Eucalyptus tereticornis Melaleuca



styphelioides



Grevillea 'Honey Gem'



Westringia 'Aussie Box'



Callistemon 'Slim'



Imperata cylindrica



Poa labillardieri



Stypandra glauca



Wahlenbergia communis



MAINTENANCE PROGRAM

Caddens Hill DEVELOPER MAINTENANCE PROGRAM - SOFTSCAPE

Client Legacy Property

Caddens Hill **Project Name:**

Precinct Name: STAGES 5 & 6

Works Description: Maintenance of soft landscape areas

Maintenance Period: 12 months

SOFTSCAPE AREAS:

	0-9 MONTHS	9-12 MONTHS
TASK DESCRIPTION:	FREQUENCY:	FREQUENCY:
Trees to Streetscapes & Basin C	FREQUENCY.	FREQUENCY.
Visual inspection of all street, park and basin trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
Manually inspect water levels to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
Inspect damage to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
Replace any taping to trees	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
Prune dead or damaged branches	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
Check for and report pests & diseases		Service and the service of the servi
	Fortnightly	Monthly Monthly (A a required
Replace failed or damaged trees	Fortnightly/As required	Monthly/As required
Spray in accordance with manufacturers recommendations	As required	As required
Adjust &/or replace stakes & ties where necessary	As required	As required
Monitor and apply fertiliser to turf areas	6 month intervals - Autumn/Spring	Yearly
Turf to Verges and Basin C		
Mow all turf areas to maintain height between 30-40mm	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
Trim edges of all turf areas	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
Remove clippings from site	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
Remove litter & debris from turf areas	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
Check for and report pests & diseases	Fortnightly	Montlhy
Spray in accordance with manufacturers recommendations	As required	As required
Monitor and apply fertiliser to turf areas	6 month intervals - Autumn/Spring	Yearly
Mulch		
Remove litter & debris from mulch	Fortnightly	Monthly
Remove weed growth in mulch areas	Fortnightly	Monthly
Top up mulch as required	Annually	Annually
Plants to Basin C and Streetscapes		
Check for and report pests & diseases	Fortnightly	Monthly
Spray in accordance with manufacturers recommendations	Fortnightly	Monthly
Prune damaged or dead branches	Fortnightly	Monthly
Remove weed growth in plant areas	Fortnightly	Monthly
Replace failed or damaged plants	Fortnightly/As required	Monthly/As required
Adjust &/or replace stakes & ties where necessary	Fortnightly/As required	Monthly/As required
General watering		
Irrigation by hydrant or water cart as required to maintain health	Weekly first 6 months/Fortnightly there after	Monthly

Caddens Hill DEVELOPER MAINTENANCE PROGRAM - HARDSCAPE

Client Legacy Property **Project Name:** Caddens Hill **Precinct Name:** STAGES 5 & 6 **Works Description:** Maintenance of hard landscape areas

HARDSCAPE AREAS:

Maintenance Period:

12 months

	0-9 MONTHS	9-12 MONTHS
TASK DESCRIPTION:	FREQUENCY	FREQUENCY
Concrete pavements to Streetscapes & Basin C	·	•
Visual inspection of all pavements for damage and cracks	Fortnightly	Monthly
Visual inspection of all pavements for efflorescence (salt deposits)	Fortnightly	Monthly
Visual inspection of all pavements for colour consistancy and stains	Fortnightly	Monthly
Clean in accordance with manufacturers recommendations	As required	As required
Leaf and debris clearance with blower	Monthly	2 Months
Walls to Hill Basin C		
Visual inspection of all gabion and concrete block walls for damage and cracks	Fortnightly	Monthly
Check / Repair all mortar joints as required if failure / damage has occurred	Fortnightly	Monthly
Remove any weed growth in between gabion walls	Fortnightly	Monthly
Visual inspection for staining and removal of all stains to concrete block walls	As required	As required
Visual inspection for grafitti and removal if required	As required	As required
Urgent works		
Report any theft damage or vandalism	Weekly	Fortnightly

ADDITIONAL WORKS / COMMENTS:

Site Foreman



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