

Landscape Masterplan Report

Prepared for Legacy Property

Project Reference: 2516063 October 2016



LEGACYPROPERTY



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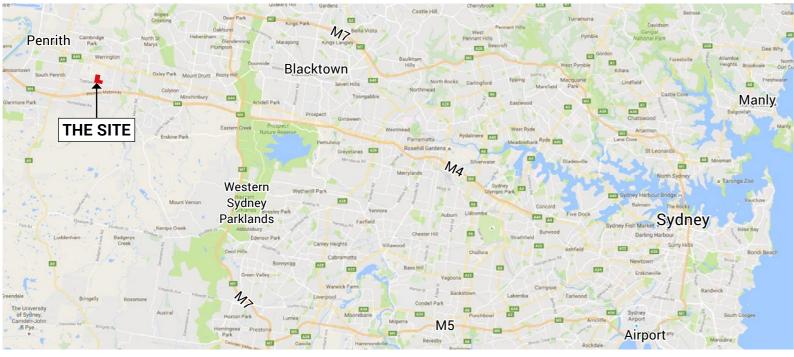
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Report title	CADDENS HILL STAGES 2, 3, 4
Document number	2516063
Prepared for	Legacy Property
Authors	Steven Holmes, Lingling Qiu, Jared Phillips
Revision number	P3
Revision issue date	October 2016
Approved	
Reason for revision	Final Issue

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GoogleMap Location of the Site, NSW

NOT TO SCALE NORTH

# **INTRODUCTION**

PLACE Design Group have been engaged by Legacy Property to provide landscape DA documentation for stages 2,3,4 of the Caddens Hill Development, in Caddens, Penrith, NSW. The scope of this document includes Basin A 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;

View toward the Hill Top Park from the Basin 1 location

View from the east of Stage 4 in a southerly direction toward Caddens Road





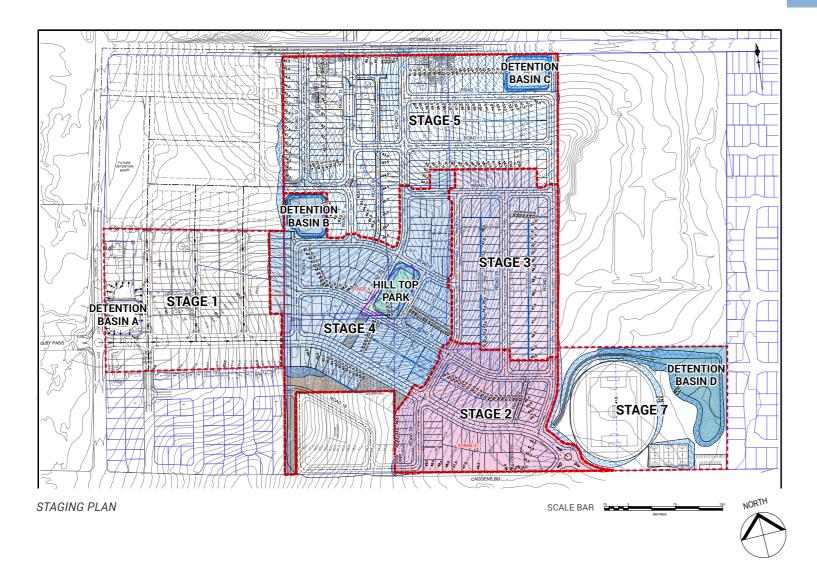
Document Set ID: 7403354 Version: 1, Version Date: 07/11/2016

- · Ensure continuity of design not only from Stage 1 but also the adjacent UGNSW Caddens site
- Create a strong sense of arrival and identity for the site with a low key thematic entrance statement located close to the sports precinct at the junction of the existing Caddens Road and Cadda Ridge Drive
- Through carefully planted basins provide habitat for a range of native wildlife and meet sustainability and ecological benchmarks across the site
- Provide an exciting adventure play area that utilises the changes in level at the hill top park and complements the native revegetation to the east. Equipment could include swings, basket swings (all abilities) slides, climbing nets and rope systems.
- Ensure that views are maximised from key areas in the hill top park.

View of the elevated land at the location of the Hill Top Park



Images taken from GoogleMaps



# **STAGING PLAN & DOCUMENT REFERENCES**

## **Control Documents:**

Background Information

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

## Penrith DCP 2014 Volume 2 E1 Caddens

## 1.3 The Public Domain

## 1.3.3 Pedestrian and Cycle Network

Figure E1.6 – Street Hierarchy Figure E1.7a-j Figure E1.8 – Pedestrian & Cycle Routes

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.

2) The design of cycleways located within the road reserve is to be in accordance with Figure E1.7.

3) The minimum width of off-street shared cycle and pedestrian pathways is to be 2.5m (as shown in Figure E1.7g).

4) The minimum width of pedestrian footpaths is 1.5m.

5) All pedestrian and cycleway routes and facilities are to be consistent with the Planning Guidelines for Walking and Cycling (DOP & RTA 2004).

View of the existing low quality vegetation at the Hill Top Park Precinct







## 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)

Images taken from GoogleMaps



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# **PRECINCT MASTER PLAN**

## STREET TREE LEGEND

Fraxinus pennsylvanica 'Cimmzam'
 Pyrus calleryana
 Lagerstroemia indica 'Biloxi'
 Cupaniopsis anacardioides
 Waterhousia floribunda
 Lagerstroemia indica x L. fauriei 'Natchez'
 Backhousia citriodora
 Pistacia chinensis
 Tristaniopsis laurina 'Luscious'

PRECINCT CILITIES

## **DESIGN PRINCIPLES & OBJECTIVES FOR THE CADDENS HILL ESTATE**

- To create a memorable and marketable overall landscape image for the Caddens Hill Development that contributes significantly to the proposed cultural identity of the overall development.
- To continue the principles set out in the WELL Precinct Control Documents and the Penrith City Council DCP
- Provide a legible project entrance statement at the juncion of Caddens Road and Cadda Ridge Drive that incorporates project branding through signage and that relates to the Stage 1 Entry Design.
- Capitalise on the many views and vistas shaped by the existing topography to create a variety of spatial experiences that exploit view opportunities from and within the site. In particular the hill top park.
- · Address site drainage and retention issues, and integrate water sensitive urban design principles where feasible. Will include suitable planting to detention basins
- Incorporate environmentally sustainable design principles.
- · Incorporate Crime Prevention through Environmental Design principles.
- To balance quality landscaping with cost effective maintenance
- Consider Penrith City Council's objectives of quality, low maintenance and robustness for open space planting, furniture and finishes.
- To provide open space and play areas suitable for a range of users,
- Consider existing open space facilities throughout the Caddens Precinct and provide alternative play elements in the parks and open spaces
- To all extents possible ensure accessibility and mobility for all users within the development by adopting the appropriate Australian standards. It is noted that this may not be achievable or feasible at all times as a result of the existing topographical constraints.

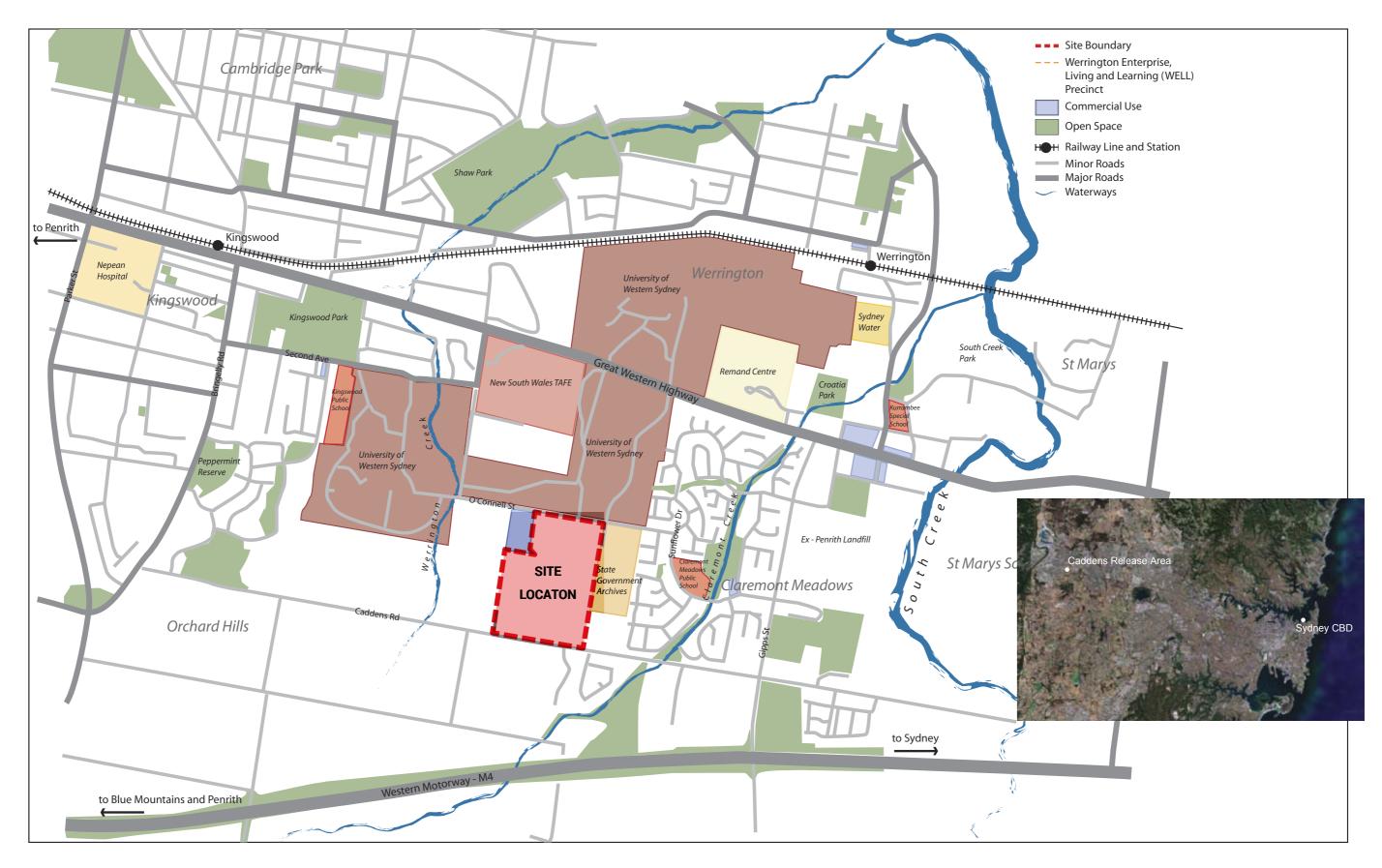
The objective of our landscape design strategy for Caddens Hill Stages 2-4 is to achieve the above design principles in the following ways:

- The streetscapes are to enhance the idea of a combined 'natural' and appropriate urban landscape character and reinforce the road hierarchy, through their arrangement, size and species selection. The streets provide important green links and view corridors throughout the site, making connections between the basins, parks and sports precinct.
- Extend the planting strategy of Stage 1 of the development and continue the streetscape language from the UGNSW Caddens development adjacent.
- · The streets will provide a circulation network that is safe, permeable and legible for pedestrians, cyclists and vehicles alike.
- · A selection of high quality street furniture, hard and softscape finishes and planting which relate to the natural environment, low maintenance and robust have been proposed for the site.
- Integration of contemporary interpretive themes throughout the Hill Top Park will assist in providing a strong sense of character. This will include references to the house previously located on the hill top and Cumberland Plain revegetation.
- The active and passive components of the open spaces will provide a range of amenities and uses for the future community.
- To meet the needs of the project there will need to be an emphasis and focus on the development and realisation of a multifaceted pedestrian amenity.
- Be sensitive to the needs of pedestrians, cyclists, motorists and promote connections across the site where possible to the future sports precinct, neighbouring developments, and public transport facilities;
- Encourage a sustainable urban ecology by understanding landform, views, microclimates, spatial quality, built form and sun and shade patterns.

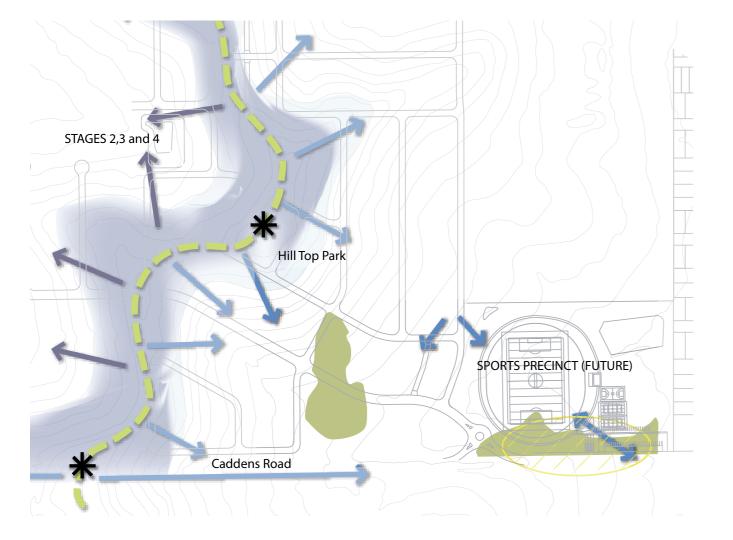


# **DESIGN PRINCIPLES**

# **PRECINCT WIDE CONTEXT**







## LANDSCAPE ANALYSIS

**High Points** 

Ridge line

**Primary Views** 

Secondary Views



**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



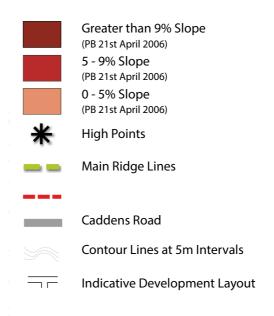
- These ecological communities have minimal intrinsic value.

Contour Lines at 5m Intervals

Indicative Development Layout



## LANDFORM ANALYSIS



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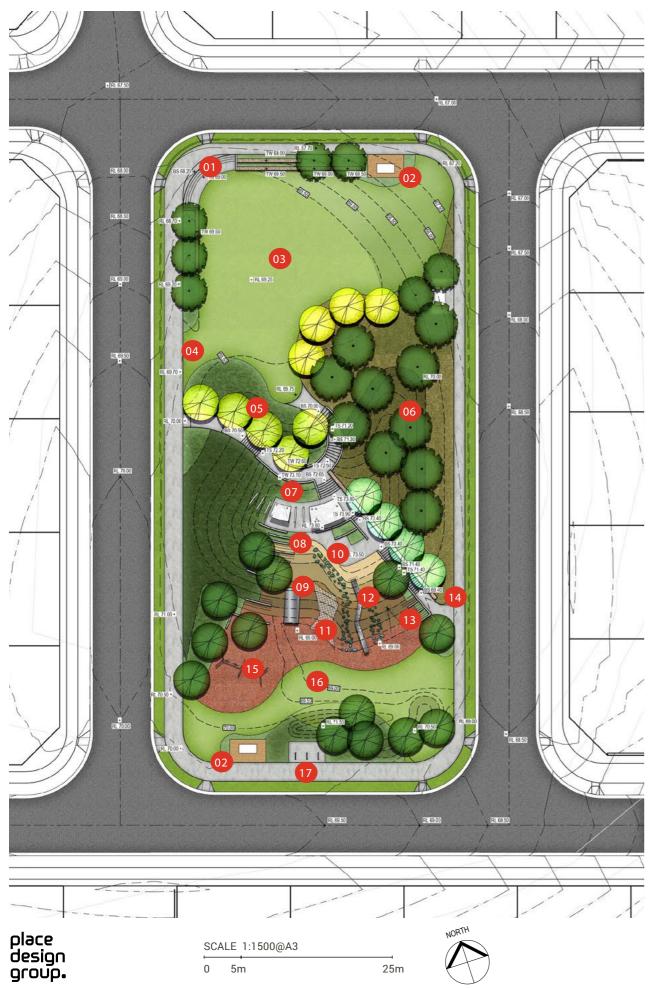
# SITE ANAYLSIS

# HILL TOP PARK LANDSCAPE PLAN

02

06

10



The Hill Top Park is located along the higher ridge line to the east of the Caddens Precinct and within Stage 4 of the Caddens Hill development. The park is intended to become a focus of the development and area for active play, adventure play, passive and active recreation. The park is located on an elevated position affording views to the blue mountains to the west and district views to the east and south. The grading to the perimeter of the park (road reserves) has ensured that there will likely be views over adjacent housing to the horizon beyond.

The proposed Hill Top Park design reflects and responds to the criteria outlined throughout the DCP where possible. The 'native woodland and potentially significant trees' identified in the DCP can not be retained due to the requirements of new road levels. In return an area of endemic native revegetation (6) has been identified aiming to create a new woodland. The commemoration of site specific heritage items, accessibility, seating, native plant species and a viewing platform have also been taken into consideration.

The park has been designed to include:

- Active Play Area making the most of the change in level (5m) which includes slides, swings mounded soft-fall (all abilities suitable) and rope climbing elements
- Mounded lawn areas with shade trees to the south
- Terraced walling / Timber sleeper steps at various angles to both sides of the soft-fall zone
- Step access to the hill top from the south east and access to the shelter via steps to the west of the park
- Hill Top Shelter and pergola structure with furniture
- Open active lawn area to the north
- Passive lawn to the south
- Revegetated area to the east of the park
- Step access to the active lawn in the north-west corner
- Distinctive Araucaria trees to the hill top
- Bicycle parking hoops to the south
- Remnant materials used in the design of the pavement where feasible
- An optional signage board with information on the historic house and past land usage in Caddens

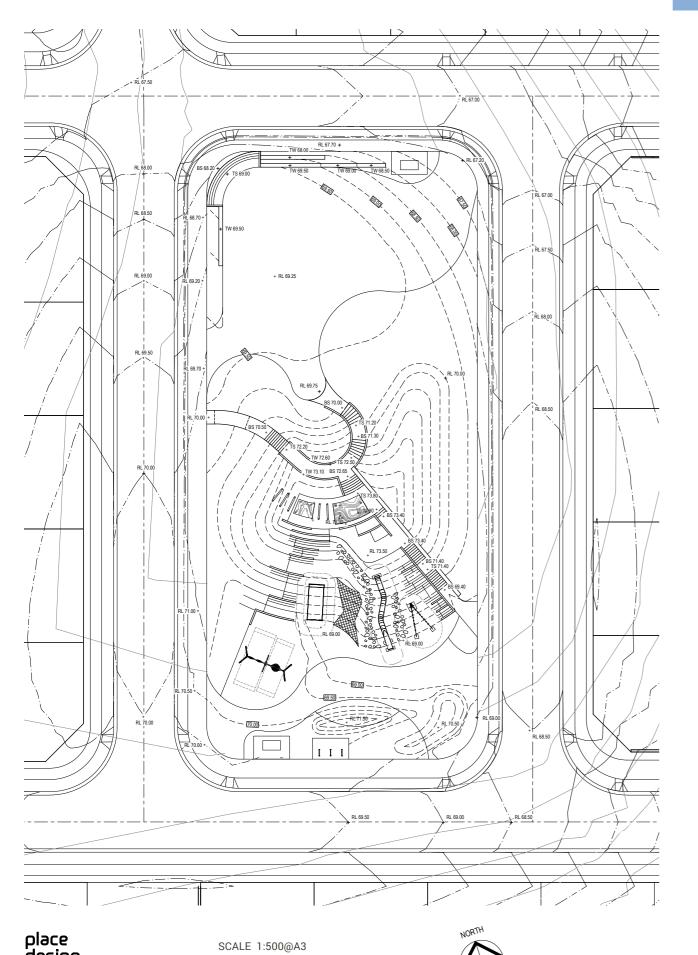
The park will contain low maintenance, robust planting and hardscape materials in accordance with Penrith City Council maintenance capabilities and guidelines.

## LEGEND

- Proposed northern stair entrance to lawn area
- Proposed substation locations with medium height shrubs to screen.
- Proposed large open lawn area, sloping away at the north eastern corner towards the road.
- Proposed at grade entry to lawn area allowing for disabled access.
- Proposed line of feature trees Araucaria heterophylla (Norfolk Island Pine)
- Proposed area of native revegetation.
- Proposed elevated lookout/ viewing area with pergola structure. Various elements, incorporated throughout this space will reflect the original homestead.
- Proposed combination of terraced wall elements in the form of sandstone gabion rock walls and timber.
- Proposed large stainless steel wide slide.
- Proposed softfall climbing rocks traveling from the base of the mound to the top.
- Proposed climbing net, suspended over the mound.
- Proposed large stainless steel slide
- Proposed rope climber.
- Proposed park stair entry to lookout/ viewing area.
- Proposed combination swing (1x basket swing and 2 x typical swings).
- Proposed passive lawn area, with grass mounds

Proposed bicycle parking area.





25m

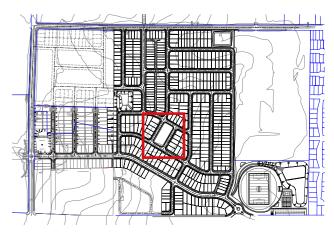
# HILL TOP PARK GRADING PLAN & PLANT SCHEDULE

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
TREES	TO HILL TOP PARK	1		1		
AH	Araucaria heterophylla	Norfolk Island Pine	20m	200L	As Shown	0
CA	Cupaniopsis anacardioides	Tuckeroo	10m	100L	As Shown	0
LI	Lagerstroemia indica	Crepe Myrtle	10m	100L	As Shown	0
TL	Tristaniopsis laurina 'Luscious'	Watergum	8m	100L	As Shown	0
SA	Syzygium australe	Brush Cherry	8m	100L	As Shown	0
WF	Waterhousia floribunda	Weeping Lilly Pilly	10m	100L	As Shown	0
спрії	BS TO HILL TOP PARK					
Shiko						
ADD	Anigozanthos 'Dwarf Delight'	Dwarf Delight Kangaroo Paw	0.5	300mm	3	0
CS	Callistemon 'Slim'	Slim Bottlebrush	3m	200mm	1	0
мст	Melaleuca 'Claret Tops'	Honey Myrtle	1m	200mm	3	0
WAB	Westringia 'Aussie Box'	Coastal Rosemary	0.9m	200mm	3	0
WM	Westringia 'Mundi'	Coastal Rosemary	0.5m	200mm	3	0
						5
GRAS	SES TO HILL TOP PARK				· · · · ·	
BFT	Baloskion tetraphyllum 'Feather Top'	Feather Rush	0.5m	75mm	4	0
LKB	Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	3	0
LTB	Lomandra 'Tropic Belle'	Lomandra Tropic Belle	0.8m	75mm	2	0
PE	Poa eskdale	Poa	0.6m	75mm	5	0
JU	Juncus usitatus	Common Rush	0.9m	75mm	5	0
PN	Pennisetum 'Nafray'	Swamp Foxtail Grass	0.9m	75mm	3	0
TA	Themeda australis	Kangaroo Grass	0.5m	75mm	4	0
FN	Ficinia nodosa	Knobby Club Rush	0.3m	75mm	3	0
CA	Carex appressa	Sedge	1.3m	75mm	4	0
0.1			1.0.11	7.5		
TREES	TO REVEGETATION AREA					
AD	Acacia decurrens	Black Wattle	8m	100L	As Shown	0
EM	Eucalyptus moluccana	Grey Gum	20m	100L	As Shown	0
ET	Eucalyptus tereticornis	Forest Red Gum	20m	100L	As Shown	0
ER	Eucalyptus sideroxylon 'Rosea'	Pink Ironbark	20m	100L	As Shown	0
спрії	BS / HERBS & GRASSES TO REVEGETATION					
51110						
BS	Bursaria spinosa	Blackthorn	5m	140mm	0.5	0
DL	Dianella longifolia var. longifolia	Smooth Flax-lily	1m	140mm	3	0
DC	Dodonaea viscosa ssp cuneata	Sticky Hop Bush	1.5m	140mm	1	0
ES	Entolasia stricta	Wiry Panic	1m	140mm	3	0
IC	Imperata cylindrica	Blady Grass	0.5m	140mm	6	0
IA	Indigofera australis	Native Indigo	1-2m	140mm	1	0
LL	Lomandra longifolia	Spiny-headed Matt Rush	0.8m	140mm	1	0
MS	Microlaena stipoides	Weeping Meadow Grass	0.2m	140mm	25	0
PL	Poa labillardieri	Tussock	0.8m	140mm	3	0
PP	Pratia purpurascens	White Root	0.1m	140mm	3	0
SG	Stypandra glauca	Nodding Blue Lilly	1m	140mm	3	0
TA	Themeda australis	Kangaroo Grass	1m	140mm	4	0
WC	Wahlenbergia communis	Tufted Bluebell	0.4m	140mm	11	0

SYM	Botanical Name	Common Name	Mature Height	Pot Size	Spacing /m2	QTY
TREES	TO HILL TOP PARK		•			
AH	Araucaria heterophylla	Norfolk Island Pine	20m	200L	As Shown	0
CA	Cupaniopsis anacardioides	Tuckeroo	10m	100L	As Shown	0
LI	Lagerstroemia indica	Crepe Myrtle	10m	100L	As Shown	0
TL	Tristaniopsis laurina 'Luscious'	Watergum	8m	100L	As Shown	0
SA	Syzygium australe	Brush Cherry	8m	100L	As Shown	0
WF	Waterhousia floribunda	Weeping Lilly Pilly	10m	100L	As Shown	0
SHRUE	STO HILL TOP PARK					
ADD	Anigozanthos 'Dwarf Delight'	Dwarf Delight Kangaroo Paw	0.5	300mm	3	0
CS	Callistemon 'Slim'	Slim Bottlebrush	3m	200mm	1	0
MCT	Melaleuca 'Claret Tops'	Honey Myrtle	1m	200mm	3	0
WAB	Westringia 'Aussie Box'	Coastal Rosemary	0.9m	200mm	3	0
WM	Westringia 'Mundi'	Coastal Rosemary	0.5m	200mm	3	0
	l					
GRASS	ES TO HILL TOP PARK				1	
BFT	Baloskion tetraphyllum 'Feather Top'	Feather Rush	0.5m	75mm	4	0
LKB	Lomandra 'Katie Belles'	Lomandra Katie Belles	1.5m	75mm	3	0
LTB	Lomandra 'Tropic Belle'	Lomandra Tropic Belle	0.8m	75mm	2	0
PE	Poa eskdale	Poa	0.6m	75mm	5	0
JU	Juncus usitatus	Common Rush	0.9m	75mm	5	0
PN	Pennisetum 'Nafray'	Swamp Foxtail Grass	0.6m	75mm	3	0
TA	Themeda australis	Kangaroo Grass	0.5m	75mm	4	0
FN	Ficinia nodosa	Knobby Club Rush	0.8m	75mm	3	0
CA	Carex appressa	Sedge	1.3m	75mm	4	0
TOFFC						
	TO REVEGETATION AREA	Dia ale Mantella	0	1001	A. Chauna	0
AD	Acacia decurrens	Black Wattle	8m	100L	As Shown	0
EM	Eucalyptus moluccana	Grey Gum	20m	100L	As Shown	0
ET	Eucalyptus tereticornis	Forest Red Gum Pink Ironbark	20m 20m	100L	As Shown As Shown	0
ER	Eucalyptus sideroxylon 'Rosea'	PINK IFONDARK	20m	100L	AS Shown	0
сприв	 85 / HERBS & GRASSES TO REVEGETATION					
SHRUE	SS / HERDS & GRASSES TO REVEGETATION	AREA	1			
BS	Bursaria spinosa	Blackthorn	5m	140mm	0.5	0
DL	Dianella longifolia var. longifolia	Smooth Flax-lily	1m	140mm	3	0
DC	Dodonaea viscosa ssp cuneata	Sticky Hop Bush	1.5m	140mm	1	0
ES	Entolasia stricta	Wiry Panic	1.5m	140mm	3	0
IC	Imperata cylindrica	Blady Grass	0.5m	140mm	6	0
IA	Indigofera australis	Native Indigo	1-2m	140mm	1	0
	Lomandra longifolia	Spiny-headed Matt Rush	0.8m	140mm	1	0
MS	Microlaena stipoides	Weeping Meadow Grass	0.2m	140mm	25	0
PL	Poa labillardieri	Tussock	0.2m	140mm	3	0
PP	Pratia purpurascens	White Root	0.8m	140mm	3	0
SG	Stypandra glauca	Nodding Blue Lilly	1m	140mm	3	0
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TA	Themeda australis	Kangaroo Grass	1m	140mm	4	0

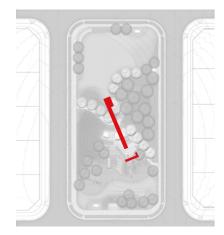
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**KEY PLAN** 

# HILL TOP PARK - SECTION 1



Open Lawn Area	Battered Garden Bed with Stairs to Lookout/ Viewing Area	Upper Walkway	Lookout/ Viewing Area	Playground - Terraced Timber and Concrete Walls
			Lookout/ Viewing Area	Imber and Concrete Walls      Imber and Concrete Walls



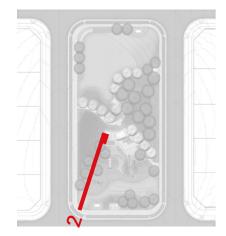
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## **KEY PLAN**

# HILL TOP PARK - SECTION 2



Upper Playground Area	Stainless Steel Slide and Terracing	I	Open Playground/ Run Around Area	Open Lawn Area	Footpath and Verge
		I		1	
Jew 71.5		RL69 50	Lind Ar Art	RLZOO	RL70.0



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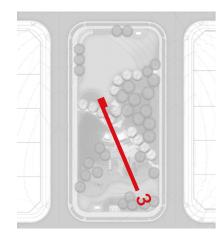
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Proposed New Road



**KEY PLAN** 

# **HILL TOP PARK - SECTION 3**





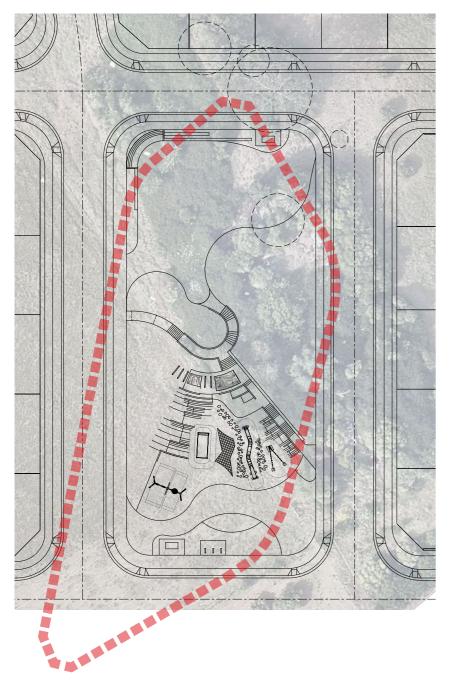


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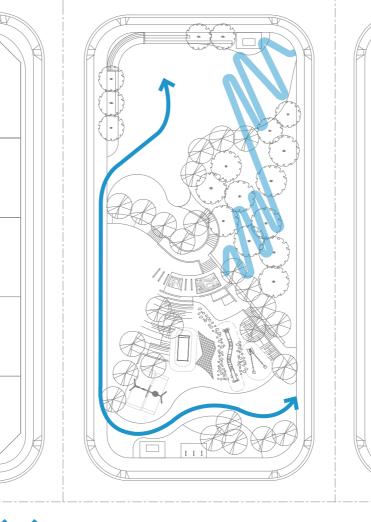
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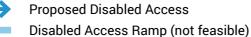




The detailed development of the residential subdivision to the periphery of the park has resulted in minor changes to the alignment of the park. The diagram shows the original alignment of the park boundary overlayed onto the final design for the park. Existing trees have also been shown.

Recent survey information has uncovered that a large number of the existing trees on site are unable to be retained as part of either the original or proposed design. The proposed park design coupled with the removal of low guality existing vegetation ensures maximum usage of the park for residents and visitors. The regular shape of the park, to that outlined in the DCP will perform better in terms of accessibility points from all four corners and satisfying the CPTED principles as greater sightlines for visual surveillance will be possible.

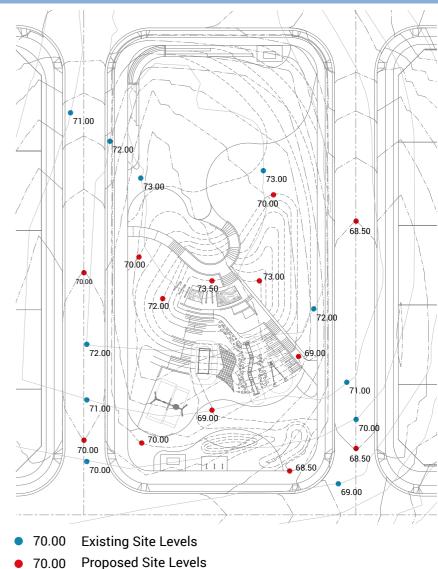




## **PROPOSED DISABLED ACCESS**

The Caddens site presents significant topography and requires a balance between working with existing levels and satisfying engineering standards for new roads. The grades have therefore determined that disabled access to the shelter is not possible, however as the diagram shows, we have provided access to equipment at the base of the slope and also the active recreation lawn to the north. The play area will include sensory based design to cater for mentally impaired children. The diagram also shows what would be required to provide disabled access to the upper level. The design would be severely compromised, cost prohibitive and we therefore do not deem this response to be acceptable.

# **HILL TOP PARK DIAGRAMS**



## **EXISTING AND PROPOSED LEVELS**

The digram shows the relationship between existing, proposed and engineering grading to the road carriageways. The park has been designed to minimise cut and fill whilst ensuring that the play area will function as intended and also tie in to proposed road levels. In order to provide a large flat area of lawn for active recreation (that is disabled accessible) the level of the park the to the north has been reduced. This has also reduced the amount of walling required to the periphery of the park which helps integrate the park into the fabric of the development and provides greater access to all areas.







The Park has been designed to maximise excitement, whilst remaining a true focal point of Caddens Hill. With the construction of more traditional play areas in surrounding suburbs, Legacy Property were keen to look at an alternative approach focussed on adventure / nature play and utilising the significant change in level. The equipment has been chosen to provide a variety of experiences for children and young adults of all levels, ages and abilities. The play space will include sloped and mounded softfall allowing for ease of access from the lower park to the shelter. Terraced walling and sleeper steps to the sides of the space provide informal play elements / alternative access to the upper slopes. There are a number of platforms and seat walls surrounding the space to provide surveillance and opportunities for parents to supervise small children.



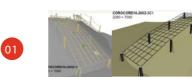


SCALE 1:300@A3

0 3m

15m

# **HILL TOP PARK - PLAY DETAIL**

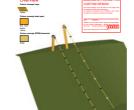


COROCORD custom shape elevated climbing net (or equivalent) Provides informal access from the base of the slope northwards, encourages activation, fitness and balance











Provides an opportunity for multiple people to slide together including parents and adults. Low maintenance and robust.





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KOMPAN Two Bay Combi Swing, Pine (or equivalent) 2.0/2.5m Height with posts made of impregnated pine or hardwood. It will include 2 standard swings and a bird nest swing.

COROCORD Hawker 2614 Open Curved Embankment Slide (or equivalent) Approximately 9.75m length aluminium open slide for use by all ages. Minimal maintenance and will appear integrated into the slope.

COROCORD Climbing Rope (or equivalent)

Approximately 6.75m length Colour Concept Rope (colour to match site branding and coloured perspex screens. Combined Coloured steel and pine posts.

COROCORD HRB200s/300s Wide Slide (or equivalent)

Mounded Climbing Softfall

A very versatile gentle climbing element for all ages, but in particular 1-3 yr old children. This element assists in separating the slide elements.

## KEY THEMES

- HISTORIC HOUSE CUMBERLAND PLAIN WOODLAND
- ORCHARDS AND WINE GROWING SITE BRANDING COLOURS

## SIGNAGE

Signage will play an important part in the appreciation and interpretation of previous land use on the Caddens Hill site, in addition to educating visitors and residents about the revegetation locally at the Hill Top Park. A Signage board will be designed to match the furniture palette and may contain details about previous land use, architecture, photographs and site map. This will include references to the historic house, aboriginal history across the site, farming and ecological history,



## REFERENCES TO THE 'HISTORIC' HOUSE

We have highlighted opportunities for the interpretation of the historic house into the design of the park. There are a number of existing artefacts existing on site that extend to bricks, partially rendered walls and rusted steel sheeting. We intend to integrate the brick into concrete pavement as banding and step treads at various key points in the design.









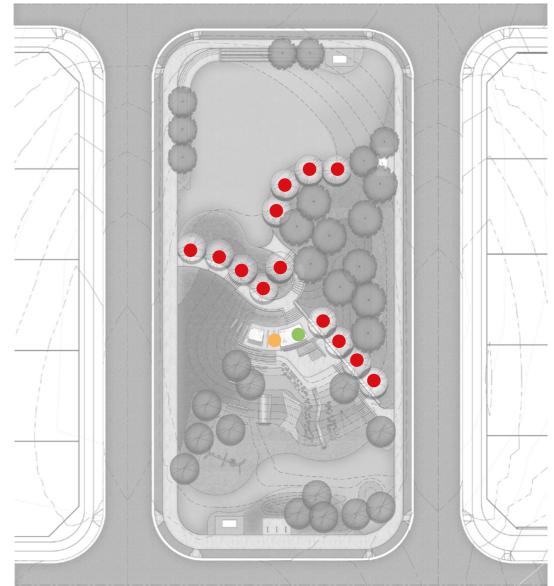


### LANDMARK PLANTINGS 03

The design will reference landmark plantings that have likely occurred in the past and are associated with historic houses such as Eucalyptus trees, specimen Callistemon trees and Grevillea plantings. A grid of trees representing the heritage orchard planting will also be considered in the design



Callistemon sitrinus 'White Anzac'





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Callistemon viminalis 'Little John'



Grevillea 'Honey Gem'

# **HILL TOP PARK - FURNITURE**

## classic plaza bench

CMP4

Sep 2014

## **General Description**

Classic, contoured bench supported by strong marine-grade stainless steel frames.

### Dimensions (mm)

625W x 470H x 1750L

### Specifications

Tick one box per category to specify your project.

Seat Type: CMP4

Battens (mm): 40W x 20D x 1750L Eco-accredited Hardwood Oiled\* Aluminium Anodised \*Street Furniture uses sustainably sourced timber from certified managed forests.

Mounting: □ Surface □ Subsurface

Powder Coat Finish: Please refer to Colour Chart

Tailored options are available for all Street Furniture products. Additional fees and lead times may apply.

## **Related Products**

Classic Plaza, Promenade and Galleria products

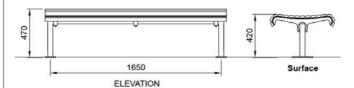
street

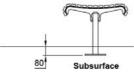
Australia

1800 027 799 streetfurniture.com

furniture

1750 625 PLAN





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## Sep 2014

## **General Description**

Classic, contoured seat supported by strong marine-grade stainless steel frames.

### Dimensions (mm)

705W x 800H x 1750L

### Specifications

Tick one box per category to specify your project.

Seat Type: CMP1

Battens (mm): 40W x 20D x 1750L Eco-accredited Hardwood Oiled\* Aluminium Anodised \*Street Furniture uses sustainably sourced timber from certified managed forests.

Mounting: □ Surface □ Subsurface

Arms: D None □ Angle Powder Coated (Pair)

Powder Coat Finish: Please refer to Colour Chart

Tailored options are available for all Street Furniture products. Additional fees and lead times may apply.

### **Related Products**

Classic Plaza, Promenade and Galleria products



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## classic plaza seat

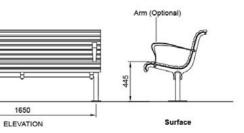
CMP1

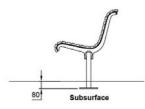


1750

PLAN

1650





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# **HILL TOP PARK - FURNITURE**

42 dia pipe

base casting

## frame bin enclosure 140K

705

5

Ash Box

(Optional)

WBE-F140K

Opening

Root

Signage

Panel

ANGLE ROOF

Slots

705

PLAN

FRONT ELEVATION

ANGLE ROOF

Single Unit

1415

Aug 2013

### **General Description**

An attractive enclosure for the common 140K wide wheeled bin.

Frame bin enclosures are fabricated to order.

## Dimensions (mm)

Single 705W x 705D x 1190H Dual 1415W x 705D x 1190H Triple 2125W x 705D x 1190H

## Specifications

Tick one box per category to specify your product.

BIN ENCLOSURE TYPE: □ WBE-F140K Single WBE-F140K Dual □ WBE-F140K Triple

ROOF: □ Angle □ Curve

## FRAME:

- Aluminium Powder Coated\*
  Stainless Steel 304 Linished
- Stainless Steel 304 Linished Stainless Steel 316 Linished

- PANELS: Aluminium Powder Coated\*
- Stainless Steel 304 Linished
- Stainless Steel 316 Linished
- Timber Vertical Battens\*\*
- Alum Woodgrain Vertical Battens\*

## \*Please refer to Colour Chart.

\*\*Street Furniture uses sustainably sourced timber from certified managed forests.

PERFORATION TYPE: Not applicable to battens

Solid
 Holes
 Slots

SIGNAGE:

□ Garbage □ Recycle □ Paper □ Empties

## □ None MOUNTING:

□ Surface (Standard) □ Subsurface □ Freestanding

## EXTRAS:

- Anti-graffiti coating □ Ash box
- Adjustable feet

Please contact your sales representative for tailored options. Additional charges and lead times may apply.



1800 027 799 streetfurniture.com



SIDE ELEVATION Triple Unit 2125 PLAN FRONT ELEVATION ANGLE ROOF Triple Unit **Roof and Body Options** NO ROOF NO ROOF CURVE ROOF Solid Battens Holes

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July 2011

### **General Description**

A bicycle and bollard in one, this slim U-shaped pipe fits securely and stylishly in a cast aluminium base.

### Dimensions (mm)

38W x 875H

### Specifications

BIKE STAND TYPE: B12

ø42 PIPE: Galvanised Mild Steel □ Stainless Steel

BASE: Cast Aluminium Powder Coated\* \*Refer to Colour Chart

MOUNTING: □ Surface □ Subsurface

### **Related Products** Blade Ash Receptacle, Blade Ash Bollard, Blade Bollard

The above specifications are for Street Furniture standard products. For customisation requirements, please contact a sales representative.

Some options incur a fee and longer lead time.

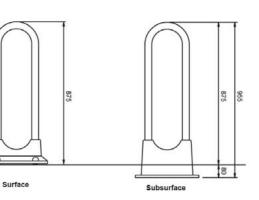


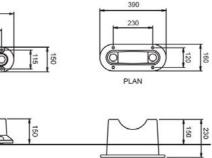


Document Set ID: 7403354 Version: 1, Version Date: 07/11/2016 PLAN

Surface Base

## blade bike stand B12





Subsurface Base

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# **HILL TOP PARK - REVEGETATION STRATEGY**

The diagram shows the intended area of re-vegetation. In order to meet the requirements of the DCP the design incorporates an area of endemic native species, understory and canopy that includes provenance stock (subject to availability and construction timeframes) Planting will include Eucalyptus Moluccana, Eucalyptus tereticornis, Eucalyptus crebra and maculata. Te understory will comprise Acacia decurrens, falcata, parramattensis, bursaria spinosa, dianella longifolia, Commelina cyanea, Hardenbergia violacea and Themeda australis.

There are a number of existing native and introduced species existing on site, but will be removed for reasons outlined in this report. The majority of planting will be native but a number of hybrid natives and introduced species will be introduced to provide additional colour and variety to the softscape palette. Auraucaria's will be introduced as a marker now common to the hill top parks in the area and continuing on from the UGNSW Caddens Site.

Site lines and views both into the park and to the district / mountains are extremely important and will be considered in the planting of any vegetation on site.

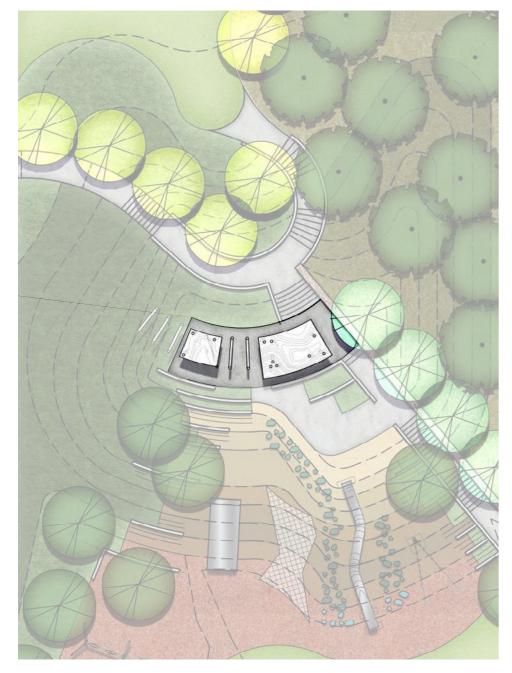




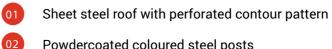
# **HILL TOP PARK - PERGOLA STRUCTURE**

The Hill Top Park Pergola Structure will emulate the colours of the Caddens Hill logo and natural environment via the combination of hardwood timber and steel support posts. The roof will be sheet steel perforated with contour lines obtained from the site and text referring to the original homestead that once stood in its place.

The structure will provide an element that aims to frame the district views of the Blue Mountains to the south. The fine lines and varying angles of the structure will create a sculptural/ interpretive feature at the top of the hill, helping to produce a point of interest or destination within the park.







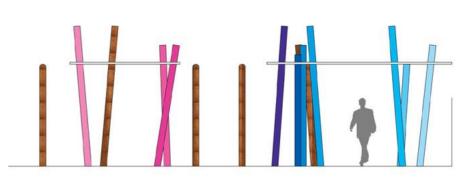
Powdercoated coloured steel posts

Natural Australian Hardwood timber posts



Pergola Structure Plan View - 1:100 @ A3

03



Pergola Structure Elevation View - 1:100 @ A3



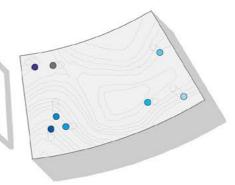


SCALE 1:250@A3 0 2.5m



12.5m

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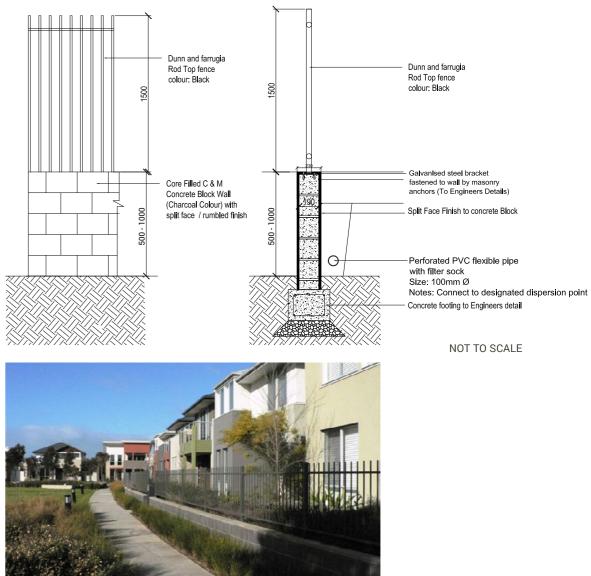


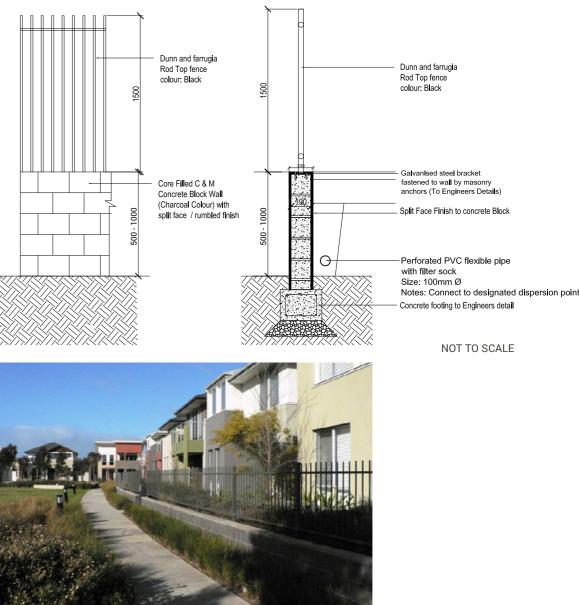
# **DETENTION BASIN B**





Proposed substation location

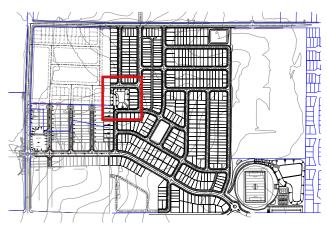




Basin Fence Indicative Details & Image 08 (Charcoal Concrete Block Retaining Wall & 1.5m High Open Railing Fence on Top)

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group.



# **DETENTION BASIN D**





SCALE 1:1000@A3

50m

0 10m

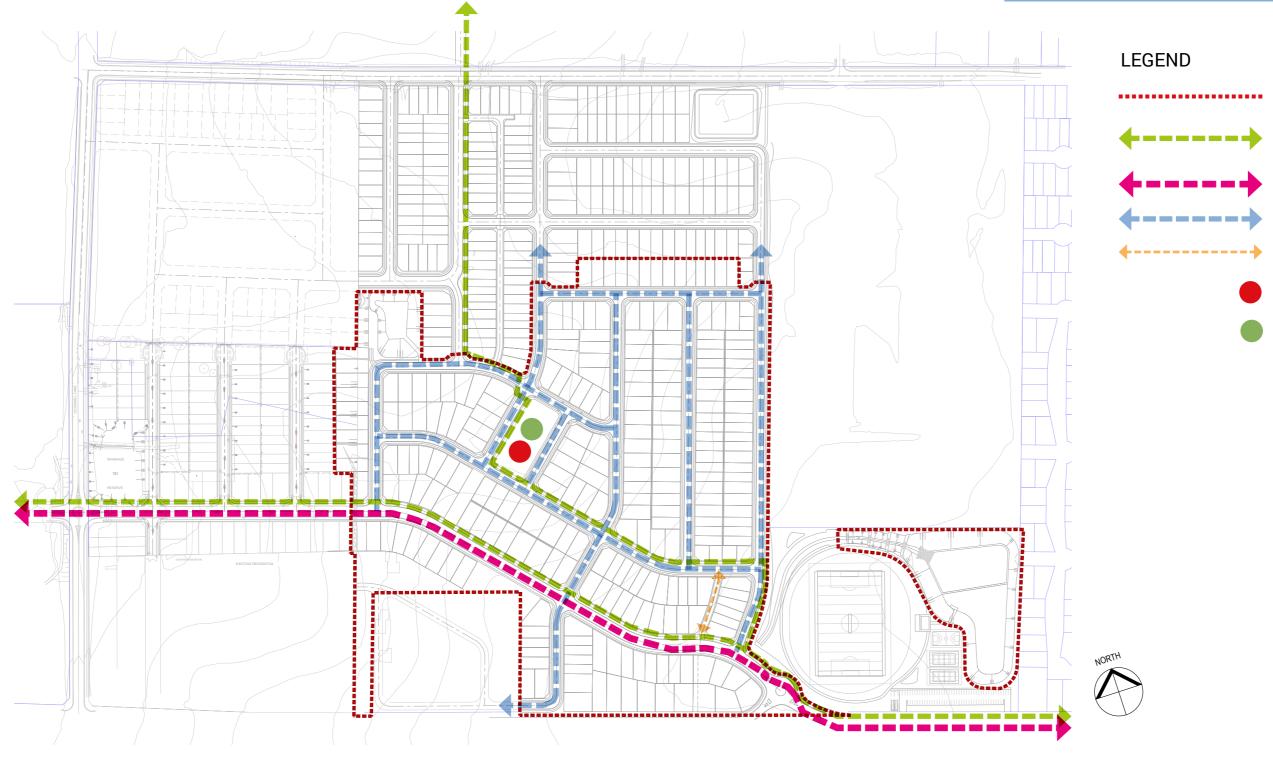
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- Basin Planting on Batter
- Proposed Basin Outlets
- Proposed Asphalt Maintenance Access
- Existing Concrete Edge Strip



October 2016 | Caddens Hill Stages 2, 3, 4 | Landscape DA Report 22

# **CIRCULATION DIAGRAM**



SCALE 1:2000@A3

0 20m

100m



Version: 1, Version Date: 07/11/2016

Scope of Work

2.5m wide Shared Path (Cycleway / Pedestrian)

Primary Vehicle Circulation

Secondary Vehicle Circulation

Laneway

Playground

Picnic / Recreation Areas

# **PRECEDENT IMAGES**

## **FURNITURE & STRUCTURES**



## PAVEMENT



## PARK PRECINCT



## **BASIN PRECINCT**









# **FURNITURE & PLAY EQUIPMENT**



SEATING



**BICYCLE RACKS** 



SLIDES



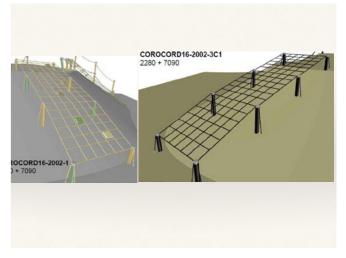


SWINGS

CLIMBING SOFTFALL



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CLIMBING NET

CADI	DENS HILL PLANT SCHEDULE			
	STAGE 2, 3 & 4	Mature		Spacing
Botanical Name	Common Name	Height	Pot Size	Spacing /m2
TREES TO STREETSCAPES				
Backhousia citriodora	Lemon Myrtle	8m	200L	As Shown
Cupaniopsis anacardioides	Tuckeroo	8m	200L	As Shown
Fraxinus pennsylvanica 'Cimmzam' Laaerstroemia indica 'Biloxi'	Ash Cropo Mutlo	13m	400L	As Shown As Shown
Lagerstroemia indica Blioxi Lagerstroemia indica x L. fauriei 'Natchez'	Crepe Mytle Crepe Mytle	7m 8m	100L 100L	As Shown
Pistacia chinensis	Chinese Pistache	8m	100L	As Shown
Pyrus calleryana	Callery Pear	10m	100L	As Shown
Tristaniopsis laurina 'Luscious'	Watergum	8m	200L	As Shown
Waterhousia floribunda	Weeping Lilly Pilly	10m	200L	As Shown
		10111	2002	713 5110 111
TREES TO BASIN AREA				
Acacia decurrens	Black Wattle	8m	45L	As Shown
Callistemon 'Kings Park Special'	Bottlebrush	5m	45L	As Shown
Casuarina glauca	Swamp Oak	10m	45L	As Shown
Elaeocarpus grandis	Blue Quandong	10m	45L	As Shown
Eucalyptus moluccana	Grey Gum	20m	45L	As Shown
Eucalyptus tereticornis	Forest Red Gum	20m	45L	As Shown
Eucalyptus sideroxylon 'Rosea'	Pink Ironbark	20m	45L	As Shown
Ficus hillii	Fig	25m	100L	As Shown
Melaleuca styphelioides	Prickly Leafed Paperbark	8m	45L	As Shown
Tristaniopsis laurina 'Luscious'	Watergum	8m	45L	As Shown
Syzygium australe	Brush Cherry	8m	45L	As Shown
Waterhousia floribunda	Weeping Lilly Pilly	10m	45L	As Shown
SHRUBS				
		4.5	200	
Callistemon 'Captain Cook'	Captain Cook Bottlebrush	1.5m	200mm	1
Callistemon 'Slim' Grevillea 'Honey Gem'	Slim Bottlebrush	3m	200mm 200mm	1
Leptospermum scoparium	Grevillea Honey Gem New Zealand Teatree	5m 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
westingu wundi	Coastal Rosemary	0.511	20011111	5
GRASSES TO BASIN / RAIN GARDEN PRECI	NCT			
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	Роа	0.6m	75mm	5
Juncus usitatus	Common Rush	0.9m	75mm	5
Pennisetum 'Nafray'	Swamp Foxtail Grass	0.6m	75mm	3
Themeda australis	Kangaroo Grass	0.5m	75mm	4
GROWING MEDIUM				
Ficinia nodosa	Knobby Club Rush	0.8m	75mm	3
Juncus 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		1		
Kikuyu Grass	Pennisetum clandestinum			
		1		1



# **TYPICAL PLANT SCHEDULE & INDICATIVE IMAGES**







Cupaniopsis anacardioides

Fraxinus 'Cimmzam'

Lagerstroemia 'Natchez'







Pistacia chinensis

Pyrus calleryana

Tristaniopsis laurina 'Luscious'







Poa labillardieri



Backhousia citriodora Waterhousia floribunda



Eucalyptus tereticornis Melaleuca



styphelioides

Stypandra glauca

Wahlenbergia communis

# **MAINTENANCE PROGRAM**

Legacy Property

STAGE 2,3,4 and Basin

Caddens Hill

Client

Project Name:

Precinct Name:

Caddens Hill DEVELOPER MAINTENANCE PROGRAM - HARDSCAPE

<b>Urgent works</b> Report any theft damage	or vandalism	Weekly	Fortnightly
Urgent works			
Top up mulch levels		Annually	Annually
Rake over surface to re-le	evel	3 Months	6 Months
Remove weed growth in r	nulch areas	Fortnightly	Monthly
Remove litter & debris fro		Fortnightly	Monthly
Mulch to all Garden Bed	Areas to Hill Top Park		
Visual Inspection of all an	ti skate studs and replace as required	As required	As required
Visual inspection for grafit	•	As required	As required
Cleaning of all play equip		As required	As required
	ber step walling and terraced stone walling to periphery	Fortnightly	Monthly
	des, swings and ropes - To manufacturers instructions ftfall and mounded softfall - To manufacturers instructions	Fortnightly Fortnightly	Monthly Monthly
Adventure Play Area to I		Fortnighthy	Monthl
		•	•
	ti skate studs and replace as required	As required	As required
Visual inspection for grafit		As required	As required
Visual inspection for stein	i in between sandstone logs ing and removal of all stains	Fortnightly As required	Monthly As required
	joints as required if failure / damage has occurred	Fortnightly	Monthly
	bion, sandstone log / concrete walls for damage and cracks	Fortnightly	Monthly
Walls to Hill Top Park			
			. S required
Visual inspection for grafit		As required	As required
Clean roof sheeting and p		Fortnightly	Monthly
	and bolts and replace as required rfaces for colour consistancy and stains	Fortnightly Fortnightly	Monthly Monthly
	sts, perforated sheet roofing and blades	Fortnightly	Monthly
Shelter Structure to Hill		Franke lade 4	Mand
Leaf and debris clearance		Monthly	2 Months
Clean all surfaces as requ		As required	As required
	re secure and eplace if required	Fortnightly	Monthly
	on steel handrail and clean surfaces as required	Fortnightly	Monthly
	vement surfaces for colour consistancy and stains	Fortnightly	Monthly
	reads and risers for damage, chips and cracks idings, treads and risers for efflorescence (salt deposits)	Fortnightly Fortnightly	Monthly Monthly
Concrete steps to Hill To	pp Park reads and risers for damage, chips and cracks	Fortnightly	Monthly
Concrete store to USU T	an Dark		
Leaf and debris clearance	with blower	Monthly	2 Months
	manufacturers recommendations	As required	As required
	vements for colour consistancy and stains	Fortnightly	Monthly
	vements for efflorescence (salt deposits)	Fortnightly	Monthly
	vements for damage and cracks	Fortnightly	Monthly
Concrete pavements to	Park and Streetscapes	FREQUENCI	FREQUENCI
TASK DESCRIPTION:		0-9 MONTHS FREQUENCY	9-12 MONTHS FREQUENCY
Maintenance Period:	12 months		
Works Description:	Maintenance of hard landscape areas		
Precinct Name:	STAGE 2,3,4 and Basin		
Project Name:	Caddens Hill		
Client	Legacy Property		



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## Caddens Hill DEVELOPER MAINTENANCE PROGRAM - SOFTSCAPE

	0-9 MONTHS FREQUENCY: Fortnightly in summer/Monthly in Winter	9-12 MONTHS FREQUENCY:
	FREQUENCY: Fortnightly in summer/Monthly in Winter	• • • • • • • • • • • • • • • • • • • •
	FREQUENCY: Fortnightly in summer/Monthly in Winter	• • • • • • • • • • • • • • • • • • • •
	Fortnightly in summer/Monthly in Winter	FREQUENCY:
		*
		Monthly in summer/Once in Winter
	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
	Fortnightly in summer/Monthly in Winter	Monthly in summer/Once in Winter
	Fortnightly	Monthly
	Fortnightly/As required	Monthly/As required
ndations	As required	As required
	As required	As required
	6 month intervals - Autumn/Spring	Yearly
Omm	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
	Weekly in Summer/Monthly in Winter	Fortnightly in Summer/2 months in Winter
	Fortnightly	Montlhy
ndations	As required	As required
	6 month intervals - Autumn/Spring	Yearly
	Fortnichth,	Mandah
	Fortnightly Fortnightly	Monthly Monthly
	Annually	Annually
	Annually	Annualiy
;		
	Fortnightly	Monthly
ndations	Fortnightly	Monthly
	Fortnightly	Monthly
	Fortnightly	Monthly
	Fortnightly/As required	Monthly/As required
	Fortnightly/As required	Monthly/As required
intain health	Weekly first 6 months/Fortnightly there after	Monthly
i	ntain health	Fortnightly/As required



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