## **St Leonards Common** 29 - 57 Christie Street

LANDSCAPE DEVELOPMENT APPLICATION DESIGN REPORT

PREPARED FOR ARROW CAPITAL PARTNERS 22 APRIL 2021





Issue E Date 22/04/2020 Prepared by Ben Michel, Landscape Architect

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We respectfully acknowledge the Traditional Custodians of the lands where we live and work. We acknowledge their unique ability to care for Country and deep spiritual connection to it. We honour Elders past, present and emerging whose knowledge and wisdom has and will ensure the continuation of cultures and traditional practices.





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# **01** ANALYSIS



## Analysis **Regional Context**



INCREASE canopy cover

### Analysis **Local Context**

#### 29 - 57 Christie Street

29 - 57 Christie Street in St Leonards is situated on prime land wedged between 3 thoroughfares providing both vehicular and pedestrian connectivity to surrounding areas of amenity.

A site for the future, this development will respond and integrate with the rapid renewal and transformation of St Leonards. With close proximity to the railway line and future Crows Nest Metro Station, the site holds a huge potential for pedestrian mobility and community activation.







Road

Willoughby

#### Analysis History and Heritage / St Leonards



#### PRE-SETTLEMENT

The Indigenous Gadigal frequented this valley and used the creek as a fresh water supply for thousands of years. Shell middens can be found in the area. You can imagine coming down from the hot ridge top to enjoy the sheltered and shady environment by the creek

## 1818

William Gore was appointed provost-marshal of New South Wales and built a cottage known to become Artarmon House.

#### 1828

Bricks were first made in the area in 1828. By 1889 the Gore Hill brickworks were the largest in NSW. During the mid to late 1800s the brick industry was a primary source of employment in the area. Many "brickies" made a living carting bricks in horsedrawn drays. The railway arrived.

#### 1853

St Leonards was named after English statesman Thomas Townshend, 1st Viscount Sydney of St Leonards. Originally, St Leonards applied to the whole area from the present suburb of North Sydney to Gore Hill.

#### 1868

St Leonards was named after English statesman Thomas Townshend, 1st Viscount Sydney of St Leonards. Originally, St Leonards applied to the whole area from the present suburb of North Sydney to Gore Hill.

#### 1890

The North Shore railway line opened in St Leonards and originally ran to Hornsby

#### Analysis **Site Character**



#### **Christie Laneway**

A healthy, mature population of London Plane Trees (*Platanus x hyrbida*) exist along the pedestrian connection between Christie Street and Oxley Street.

These trees provide a significant microclimatic purpose throught their deciduous nature - provision of shade and shelter in summer, and the infiltration of light in the winter.

#### **Christie Street**

The current termination of Christie Street is abrupt and provides little purpose other than to facilitate access to the basement carpark beneath the property.

A major consideration for Christie Street is to enhance the pedestrian experience through utilising the connection the street has with the Pacific Highway.

#### **Oxley Street**

An entrance to the site currently exists on Oxley Street, and this will be maintained within the design proposal through both a vehicular and pedestrian entry point.

Alongside of this, a population of street trees provide areas of shade and privacy to the site. Some will require removal, however we will strive to keep as many as possible.





#### **Nicholson Street**

Nicholson Street is located at the highest side of the site, approximately 8 - 10m higher than Christie Street on the opposite side, which results in a steep landform running from east to west.

#### A large cluster of Sheoak (Casuarina

cunninghamiana) trees exist here, tightly spaced together in a grove formation. Many of these trees will require removal in order to facilitate the design.

## Analysis **Site Character**

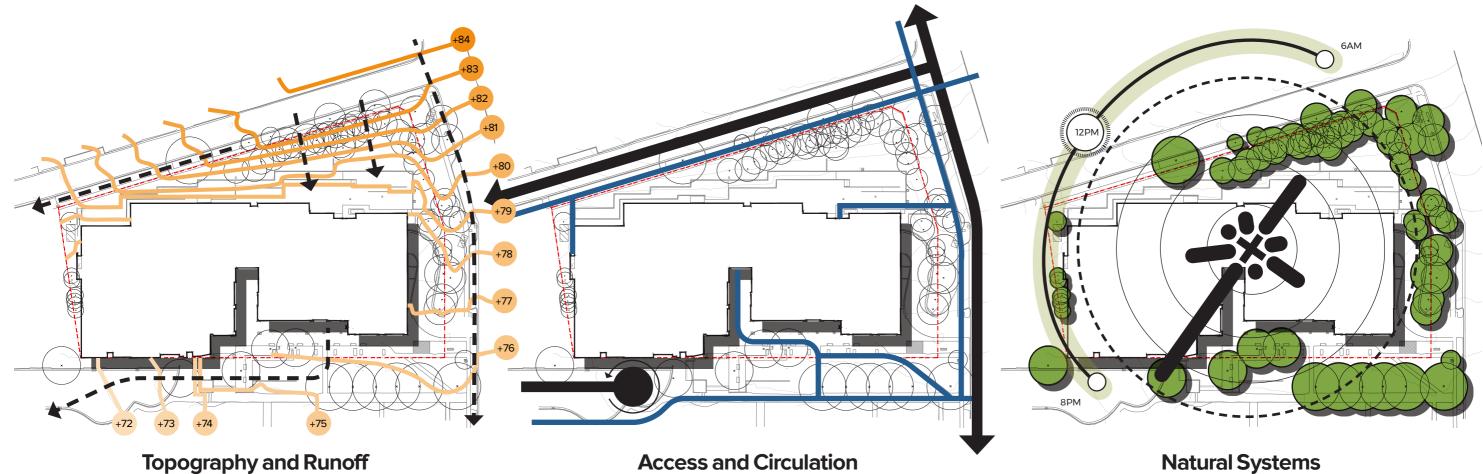
Planting Materials **Activation** 

#### Furniture





#### Analysis **Site Analysis**



The highest point of the site is located at the corner of Oxley and Nicholson street, on the south-eastern side. From here, the landform falls hard and fast until it reaches +77 level, where it begins to flatten out.

A major challenge associated with this is equitable and inclusive design through aiming to minimise the excessive use of steps, and also the risk of pathways, with no through-site links due to fencing and other posed by high amounts of runoff generated by large rainfall events.

Vehicular access to the site is provided primarily through Nicholson and Oxley Street, where limited street parking is available. A basement carpark is accessible through Oxley Street and Christie Street.

Pedestrian movement throught the site is defined by a system obstructions

in from the west. ample light and a high amount of shadow

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#### **Natural Systems**

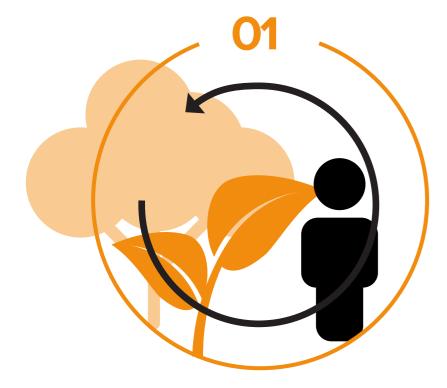
The site is surrounded by tall trees and a generous vegetation setback, with many of these trees matured and at maximum height. Wind on the site is strongest from the east and west, with the strongest wind blowing

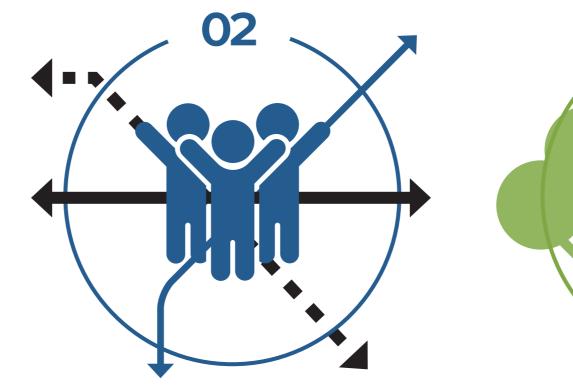
In the peak of summer, the sun rises at 6am and sets at 8pm, providing

# **02** VISION



## Vision **Design Principles**





#### Connect

Connect people with the ever-diminishing natural environment.

Through 'moments' and 'pockets' of planting, people begin to see green and this has proven mental health benefits - something which is becoming increasingly important as our cities expand. Use appropriate native planting to encourage threatened birds and insects to our site. Activate

Activate community and individuals, both now and for the future.

Provide incentives for people to come to site, mainly through the retail and health facilities which will be present in the future. Allow for comfort and enjoyment through flexible spaces which facilitate seasonal activation.

Integrate and expand upon the natural systems which surround our site.

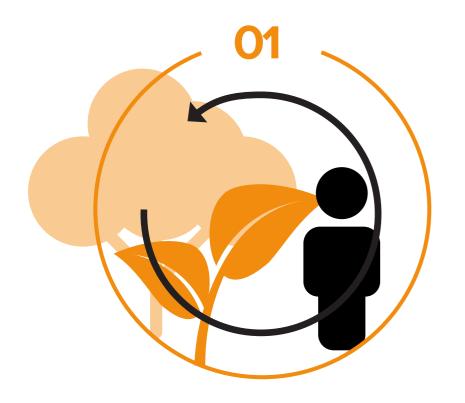
Bring trees, shrubs, plants and groundcovers right through the corridors of the site, up the walls, and on the roof. Be proactive and reciprocal of the environmental issues we face in the 21st century.





Integrate

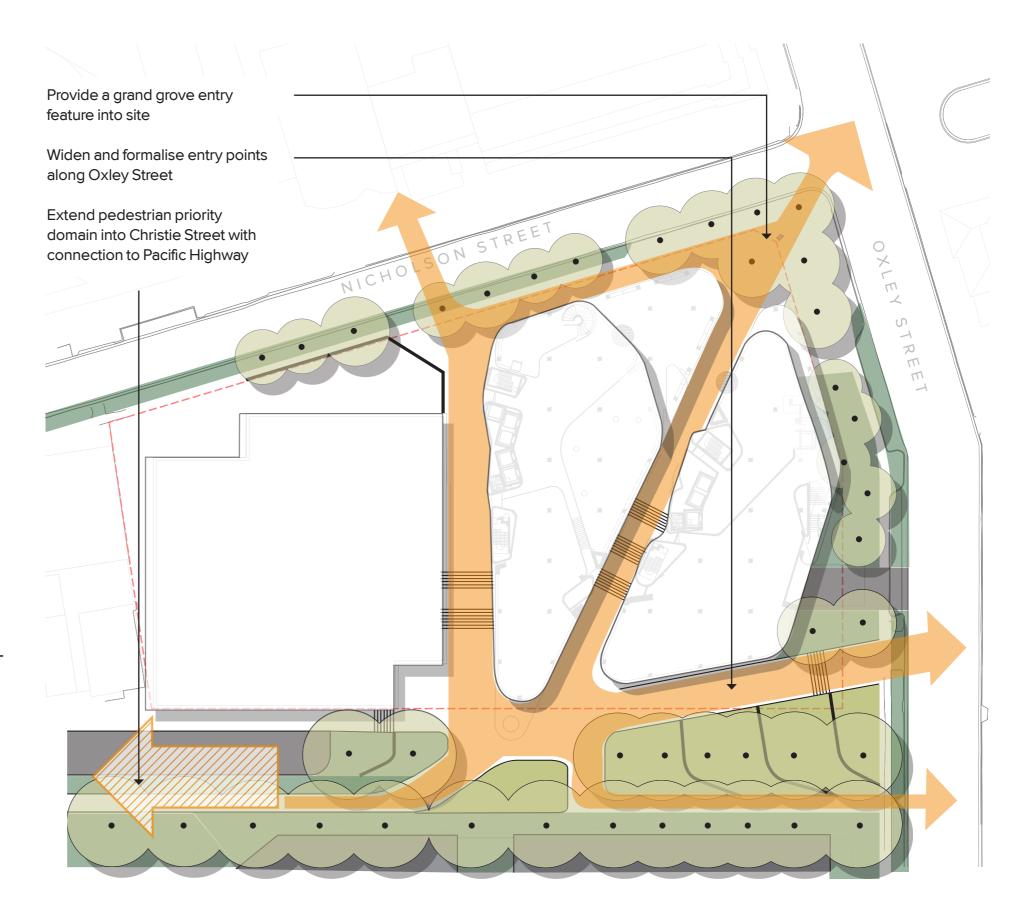
#### Vision Connect



#### Connect.... site and context

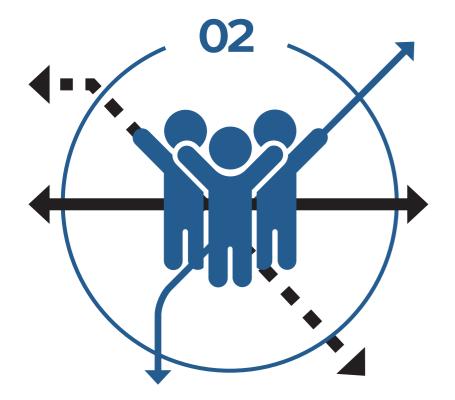
Provide opportunites for people of all abilities to have momentary interactions with nature - smell, touch, sound and sight.

Create nodes of 'green hotspots' within the site where clustering of trees, plants and shrubs become possible in the larger spaces. Provide meaningful plantings along main corridors and pedestrian routes in order to facilitate this interaction.



ARCADIA 29-57 Chris Developmen

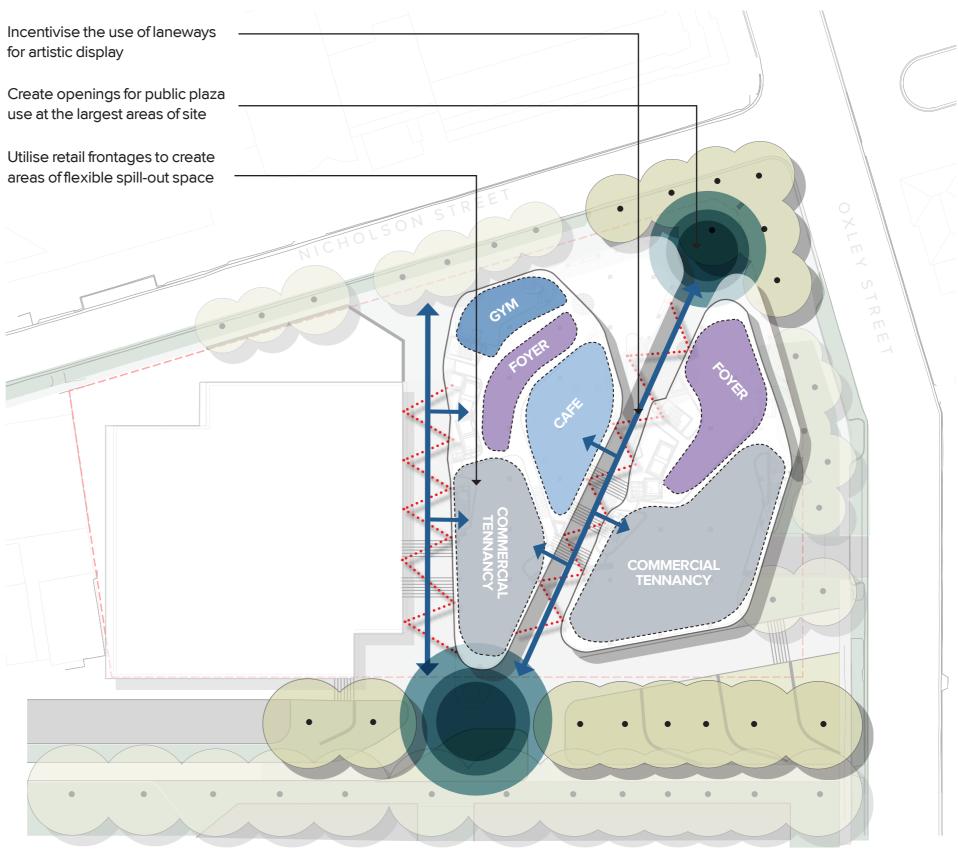
#### Vision **Activate**



#### Activate.... the St Leonards community

Through a network of pedestrian movement through the site, the formation of 'activation hotspots' become apparent at these intersections of movement.

Design with this in mind and facilitate larger spaces at these nodes of activation for use of the community.



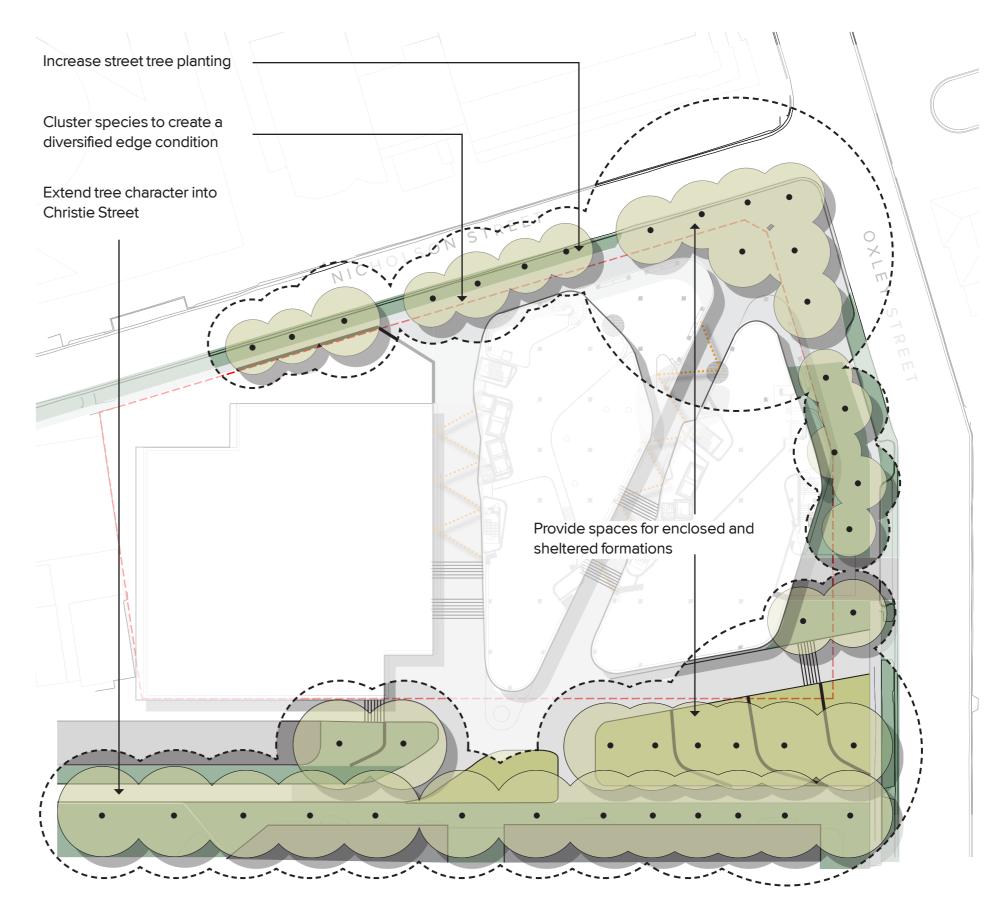
#### Vision Integrate



Integrate.... our natural systems

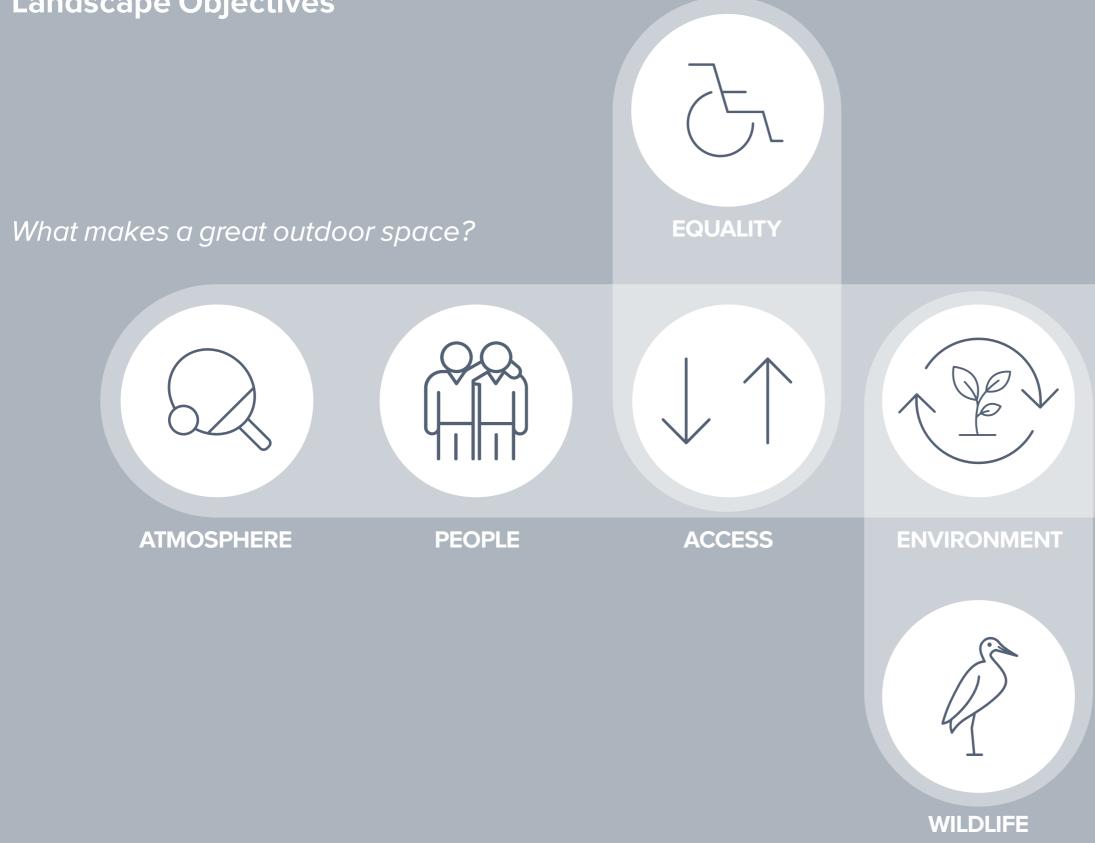
Bring trees and plants right through the spines of our site, enhancing both the user experience and visual appearance of the built finishes.

Install a 'green spine' around the site through the provision of new street trees and a dense border of understory planting.





#### Vision Landscape Objectives



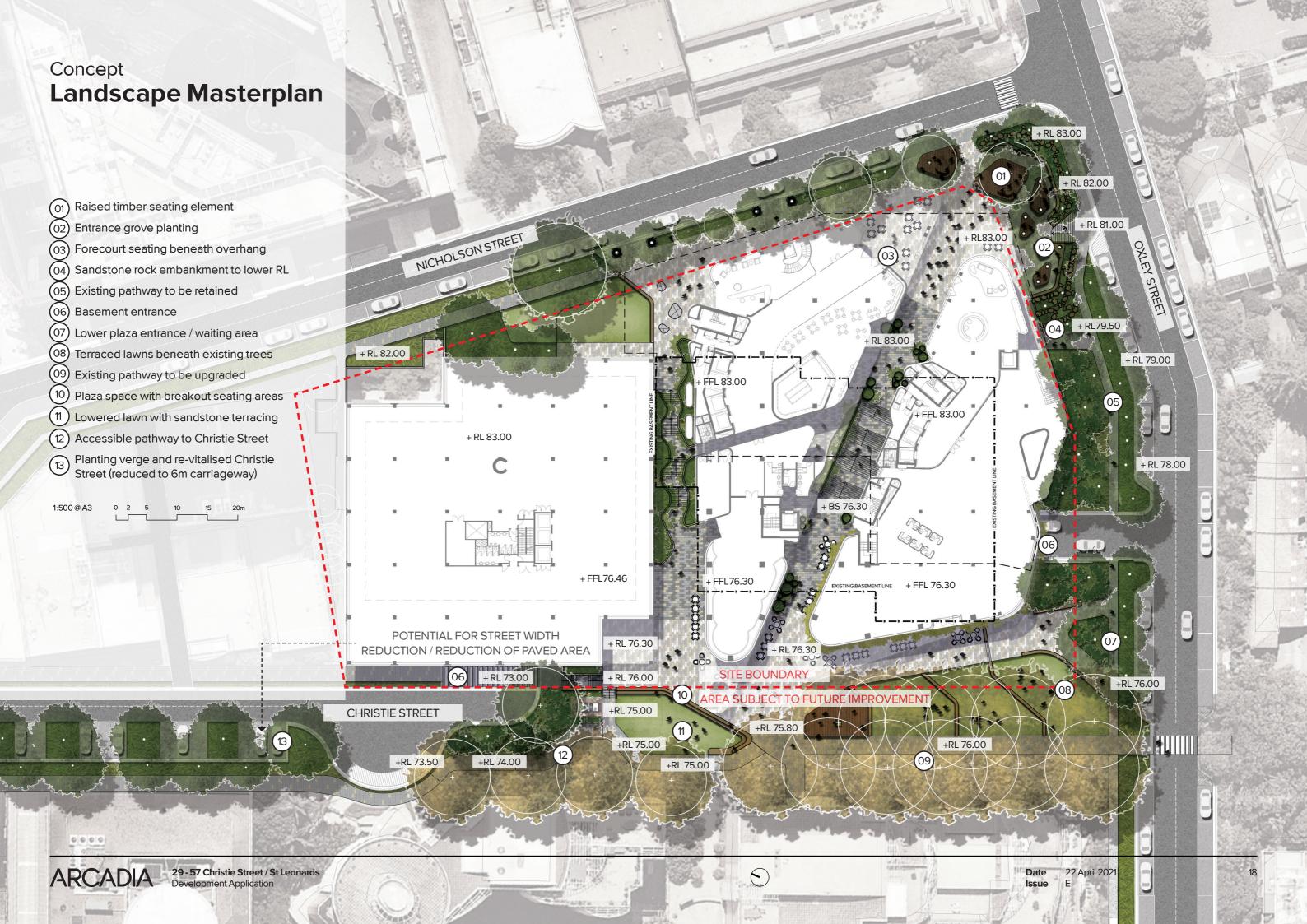


#### COMFORT



# **03** CONCEPT





#### Concept Landscape Typologies

#### **ENTRY GROVE**

- Access point
- Entrance feature to site
- In-formal seating and wait area

#### **UPPER FORECOURT**

- Building interface transition space
- Seating and gathering
- Breakout space from upper levels of building

#### THE ARCADE

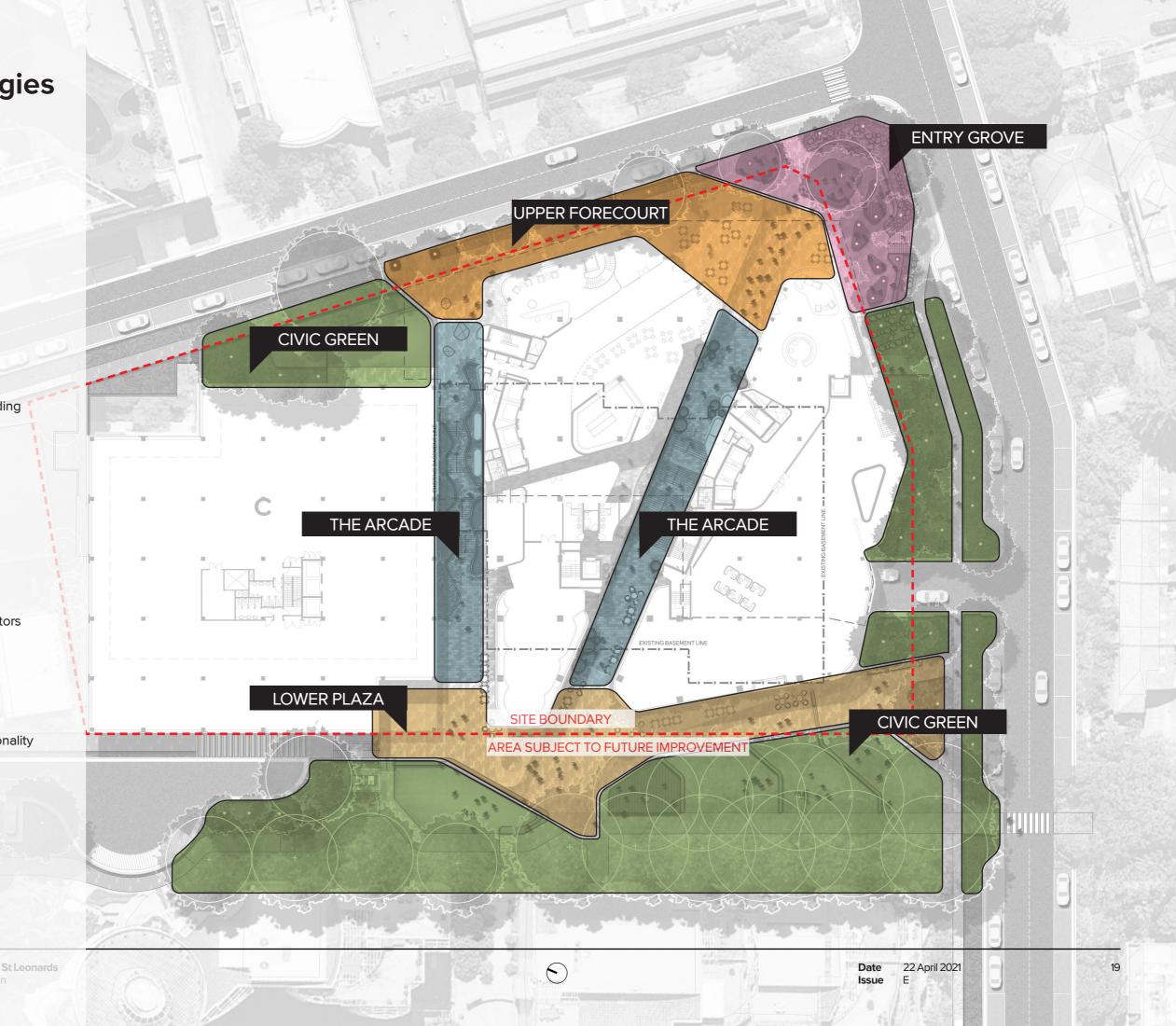
- Through-site link
- Side access points to buildings
- Lighting and artistic display

#### LOWER PLAZA

- Primary congregation space
- Retail and Cafe opportunities site activators
- Flexible open space

#### **CIVIC GREEN**

- Soft and comfortable
- Role of nature in providing shelter seasonality
- Picnic / lunch space



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## Concept Entry Grove

The entry grove will be the main access point for most visitors to the site, due to the future location of Crows Nest Metro and the proximity of the Pacific Highway. Elegant and formal in character, the grove will signal an arrival sense into the site, and offer visitors a place to sit, relax and congregate beneath the cover of an enclosed canopy.



## Concept Upper Forecourt

Adjacent to the grove will be the upper forecourt, a place of transition between inside and outside.

A large building overhang will provide a sheltered space for flexible furniture and cafe seating, whilst the proximity of the grove will provide for a scenic outlook which obscures the visual impact of Nicholson and Oxley Street. Other seating elements can be explored through raised hobs and timber terraces within the adjacent grove space.





- Existing Nicholson Street pathway (01)
- (02) Lawn and congregation space on podium
- (03) New street trees to street edge
- (04) Access to lower plaza level
- (05) Building entrance with flexible seating
- Entry grove feature in deep soil (06)

- Raised timber deck seating element (07)
- 08 09 10 Retained feature tree within timber
  - Raised timber seating elements within grove
  - Sandstone rock embankment to lower RL
  - Access path to lower lift lobby

(11

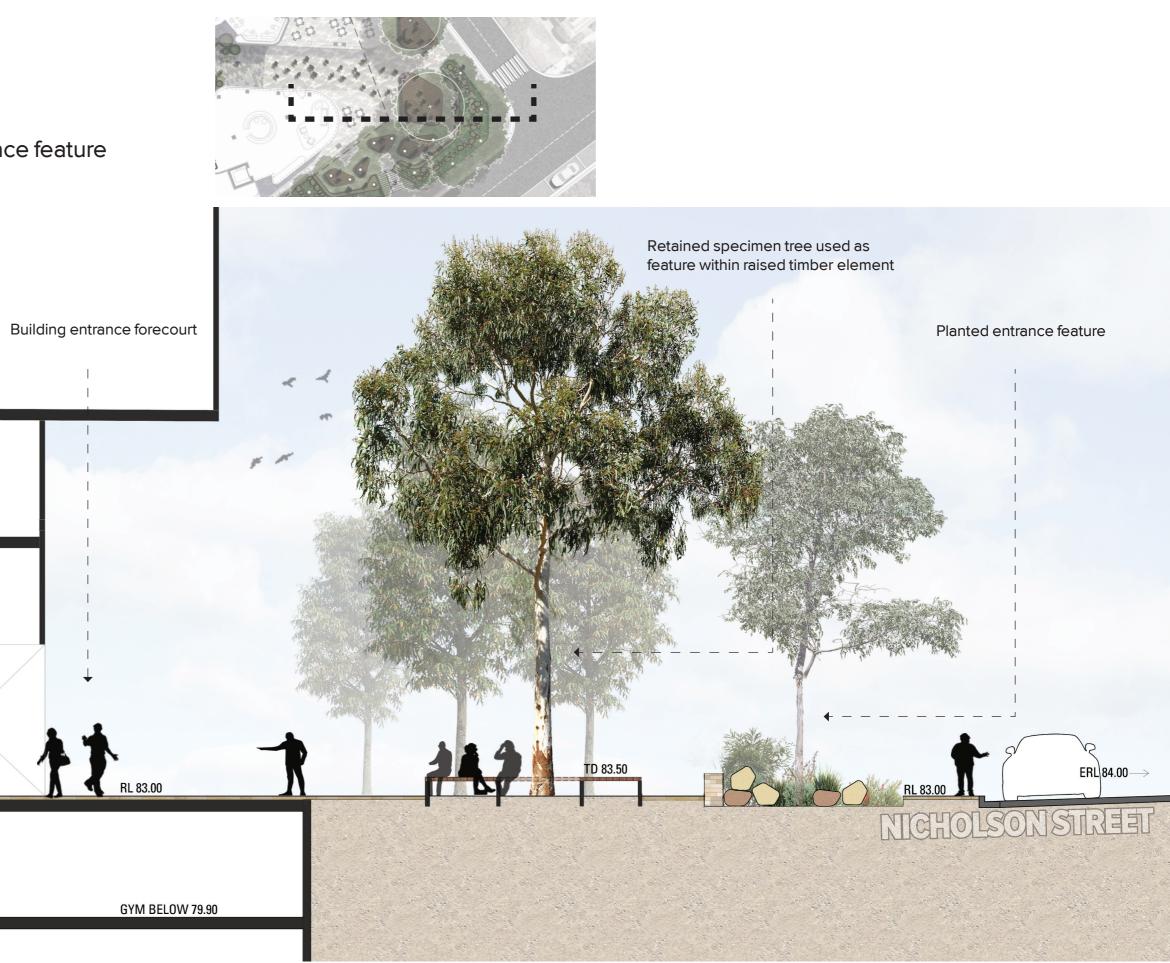
(12) New parallel parking to Oxley Street

#### Concept **Entry Grove & Forecourt**

Section A / Forecourt and Native Grove entrance feature

1:150@A3 0 0.5 1

Refer addendum drawings for site cross sections

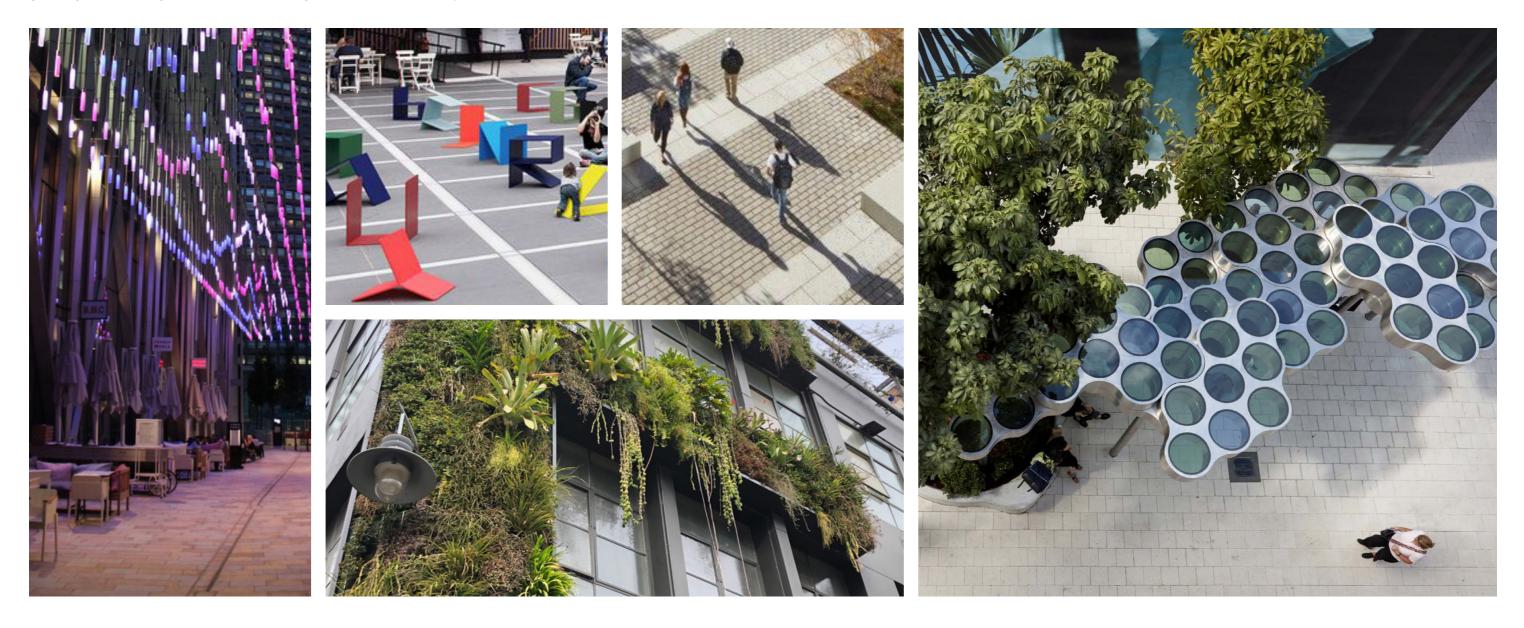




### Concept The Arcade

Narrow and elongated, the arcade provides connectivity between the upper forecourt and the lower plaza.

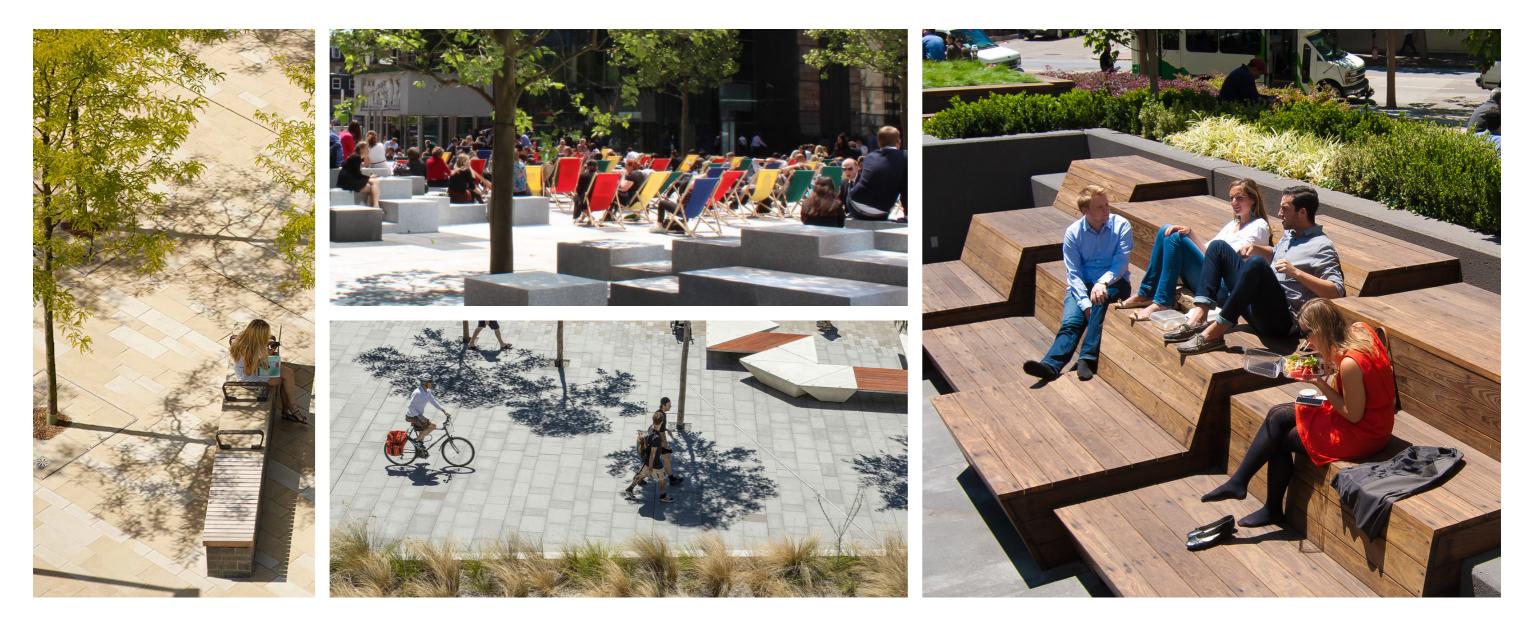
This is a space with artistic activation potential - the slimness of the passageway allows for opportunity to have seasonal vertical hanging elements, popup and moveable furnishings, and comfortable mood lighting to provide a sense of warmth and comfort during the evening and night. Further to this, the greening of the building facade with shade loving plants could create a truly unique space.



#### Concept Lower Plaza

The lower plaza is a larger and more exposed space, allowing for an increased volume of people to congregate during events or other festivities.

With the adjacent civic green, terraced seating options can be provided for workers and visitors to sit together during lunch or other times, as well as flexible cafe seating provides around the retail tennancies. Space for special event seating can be provided - with an outlook towards the civic green lawns.



## Concept Civic Green

The civic green is the communal lawn space set beneath the existing plane trees - providing perfect seasonal shelter and enclosure from the surrounding roadways and developments.

With the provision for flexible congregation within the lawn, a set of gentle terraces will provide breakages within the lawn spaces which will facilitate seating needs, aswell as compartmentalizing the larger space into a series of smaller lawn areas for groups.





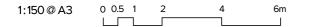
- Turning circle and loading bay retained (01) (02) Existing basement entrance (03) Planting embankment to Christie Street (04)
  - Accessible pathway at 1:20
- Lowered lawn with terraced seating (05)
- (06) Plaza space with flexible, moveable seating for tennancies

- Raises timber stage around base of tree (07)
- 08
  - Revitalised existing pathway
- (09) (10) Stepped communal lawn spaces
  - Retained existing trees
- Planted verge to Oxley Street (11)
- (12) New basement entrance to Building



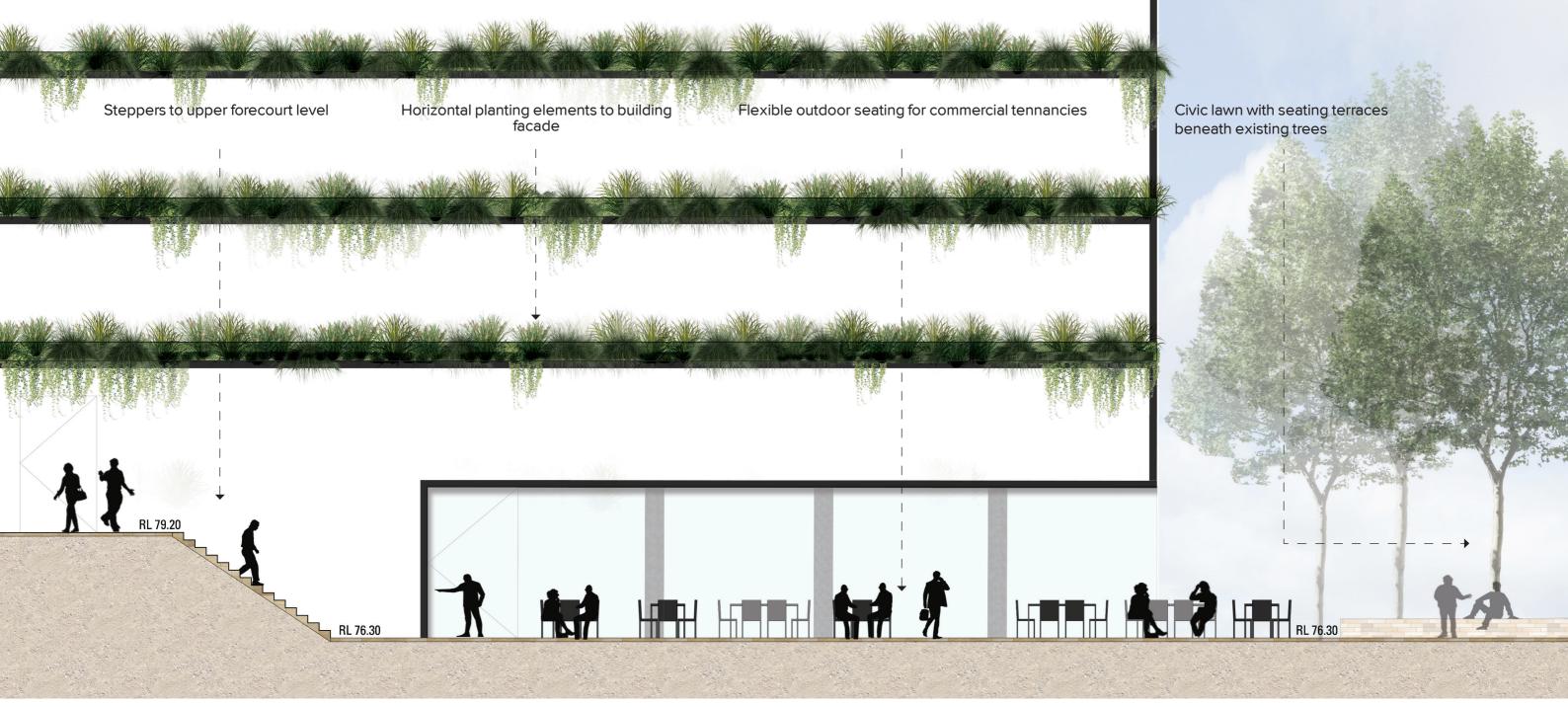
#### Concept Lower Plaza

Section B / Arcade and Lower Plaza interface



Refer addendum drawings for site cross sections

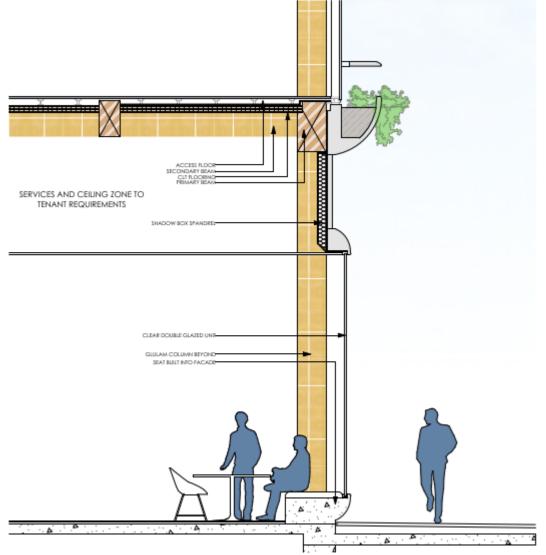




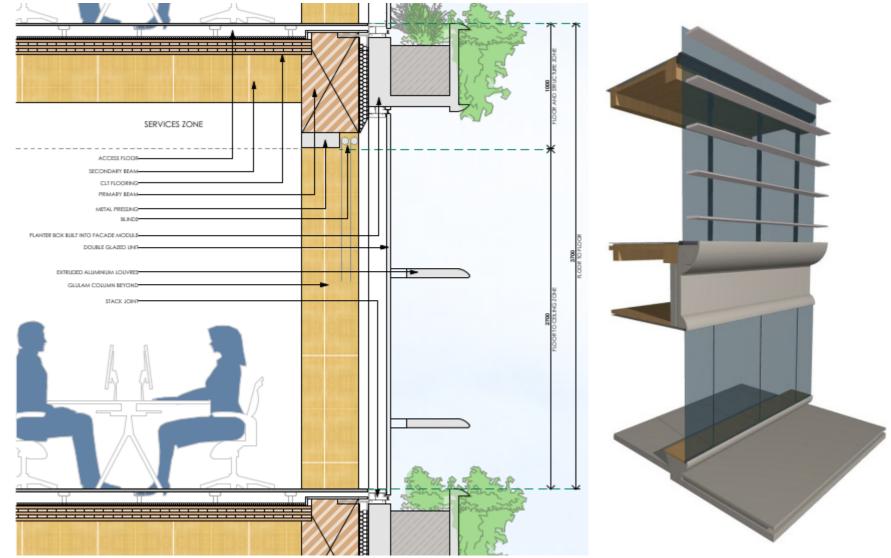


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## Concept Perimeter Planters



Section created by Fitzpatrick + Partners. Refer Architectural Documentation for more information



Section created by Fitzpatrick + Partners. Refer Architectural Documentation for more information



Tough environment shrub for height and thick greenery



A mix of hardy grasses with attractive foliage and flowering qualities





Trailing ground covers towards the front of the planter boxes to give the green edge effect of the building



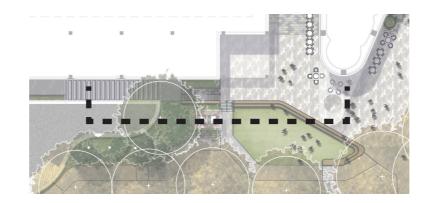
3D created by Fitzpatrick + Partners

### Concept Civic Green

Section C / Shared lawn with terraced sandstone seating

1:150@A3 0 0.5 1 2 4 6m

Refer addendum drawings for site cross sections







#### Concept Roof Terraces LO4 - LO6

The rooftop terrace space between Levels 04 and 06 are small spaces which provide opportunity for casual seating and interaction between occupiers on lunch breaks or for other small gatherings.

A thin strip at the building edge, the landscape space here provides area of continous outlook to the surrounding context.



#### Concept Roof Terraces L04 - L06

- OI Bar table with moveable stool seating providing outlook
- (02) Two-seater lunch tables within planting nooks

03 Thin paved terrace space as extension of internal building



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## Concept Rooftop Spaces L07+ L10

The rooftop spaces at Level 07 and Level 10 are larger areas for mixed use between public and private groups.

Areas for congregation are provided through a mixed palette of materiality - with lawn spaces, sprawling entertainment decks, and casual seating lounges for all occasions.



#### Concept Roof Terrace L07

(1) Timber deck area with bar table and moveable stool seating wrapped around with planting
 (02) Flexible lounge area
 (03) Communal lawn
 (04) Lunch table seating within pergola
 (05) Timber deccking with integrated bench to planter
 (06) Rooftop entrance area
 (07) Extensive green roof to mechanical kiosks





### Concept Roof Terrace L10

- (01) Communal lawn space
- $\overline{(02)}$  Planter beds with feature tree species
- $\overline{(03)}$  Lunch tables within planting beds
- $\overline{(04)}$  Bar table within outlook area
- (05) Raised timber sun lounge with bench and moveable furnishings
- (06) Flexible open space for tennants use

1:250@A3 0 2 4



# **04** STRATEGY

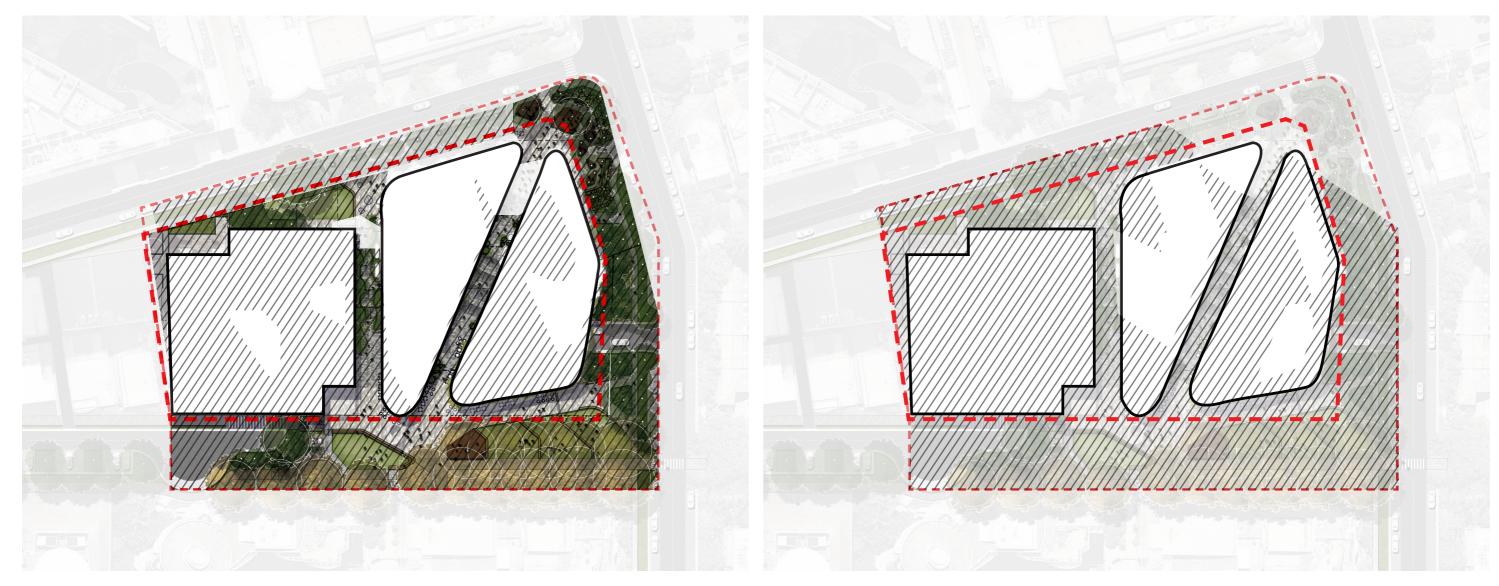


### June 21 Winter Solstice

At this time of year in Sydney, the sun is at it's lowest point in the sky and shadow cast from the development is at it's greatest.

9AM

11 A M

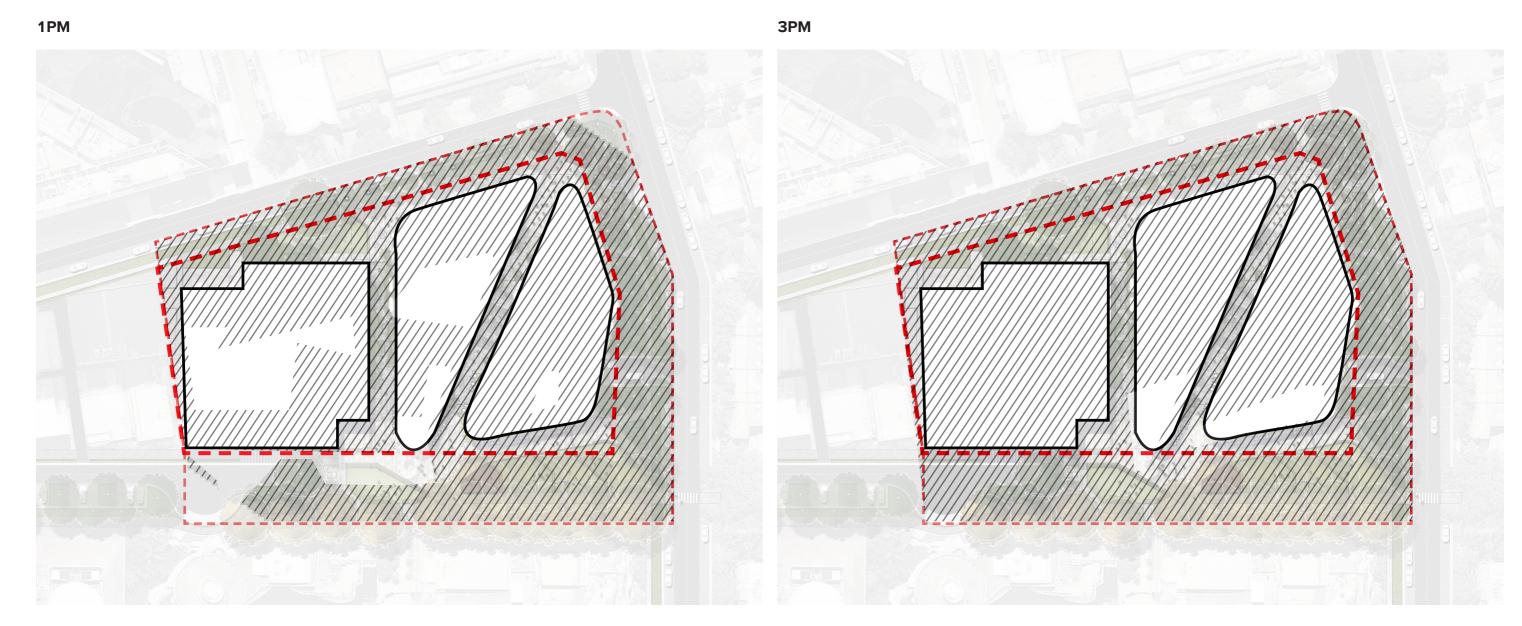


The rooftop landscape spaces receive sunlight at this time of the day. All other areas of the site are covered in shadow.

Between 9am and 11 am, the shadow decreases at the entry grove precinct as the sun begins to travel west. The arcade laneways are still within shadow.

### June 21 Winter Solstice

At this time of year in Sydney, the sun is at it's lowest point in the sky and shadow cast from the development is at it's greatest.

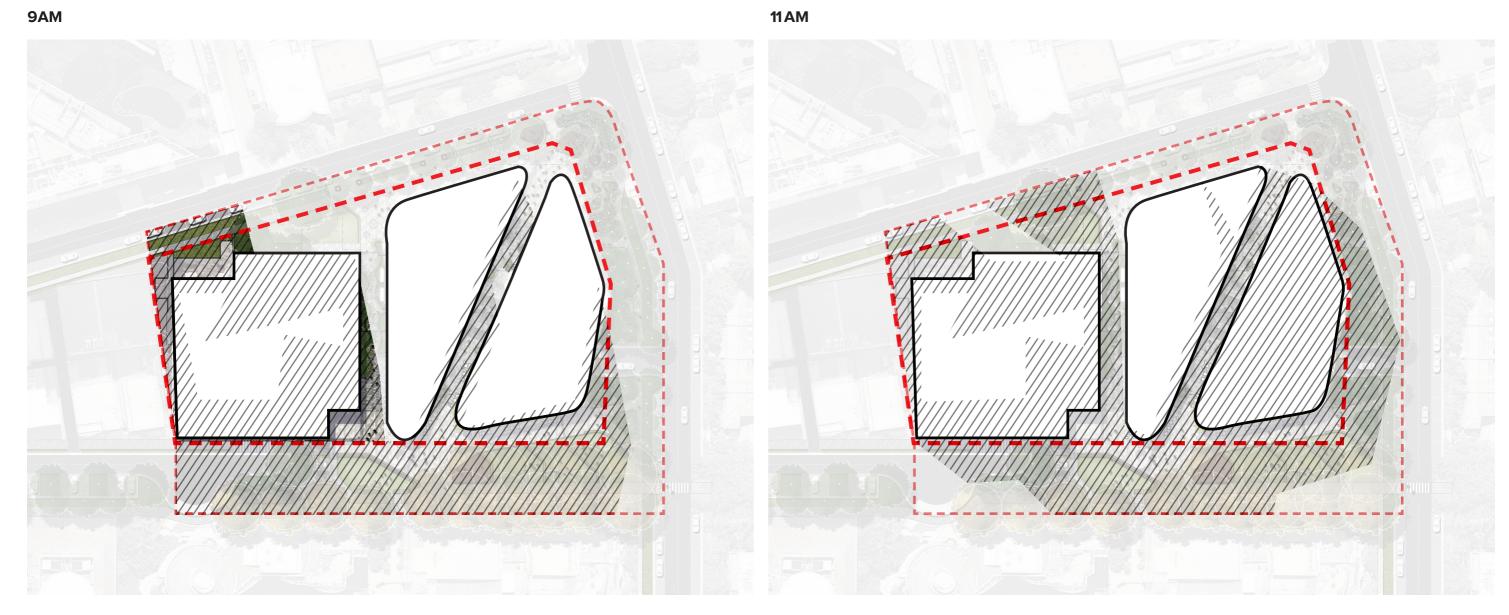


Some pockets of sunlight are brought into the site and public domain at the western side. Adjacent buildings cast shadow onto the site.

As the sun begins to set, most of the site is in shadow.

### September 21 Spring Equinox

At this time of year in Sydney, the sun is directly above the equator, meaning day and night are of equal length. The amount of shadow cast onto the site at this time of year is at the median between mid winter and mid summer.

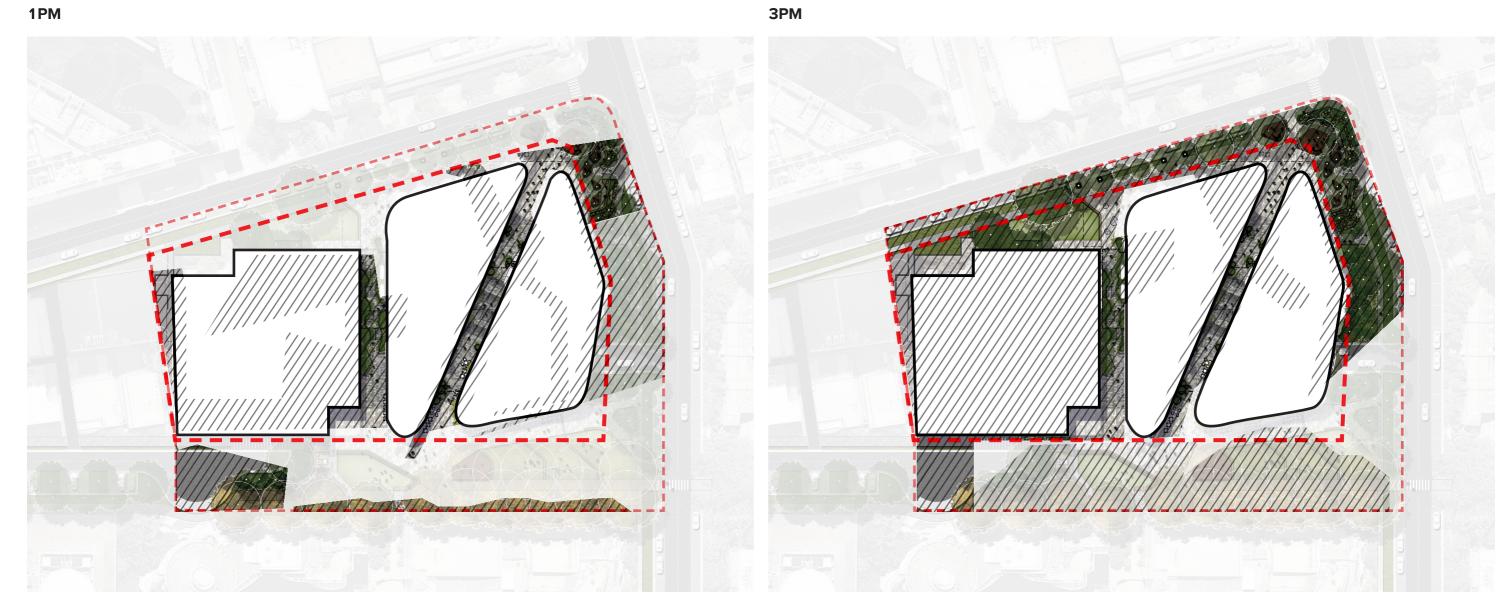


The eastern side of the site experiences full sun at this time of day, and rooftop areas are also covered in sunshine.

The eastern side of the site is still situated in sunlight, and the amount of shadow is beginning to decrease at the western edge of the public domain.

### September 21 Spring Equinox

At this time of year in Sydney, the sun is directly above the equator, meaning day and night are of equal length. The amount of shadow cast onto the site at this time of year is at the median between mid winter and mid summer.



The western part of the site is covered in sunshine at this time, and the eastern area is beginning to become covered with shadow.

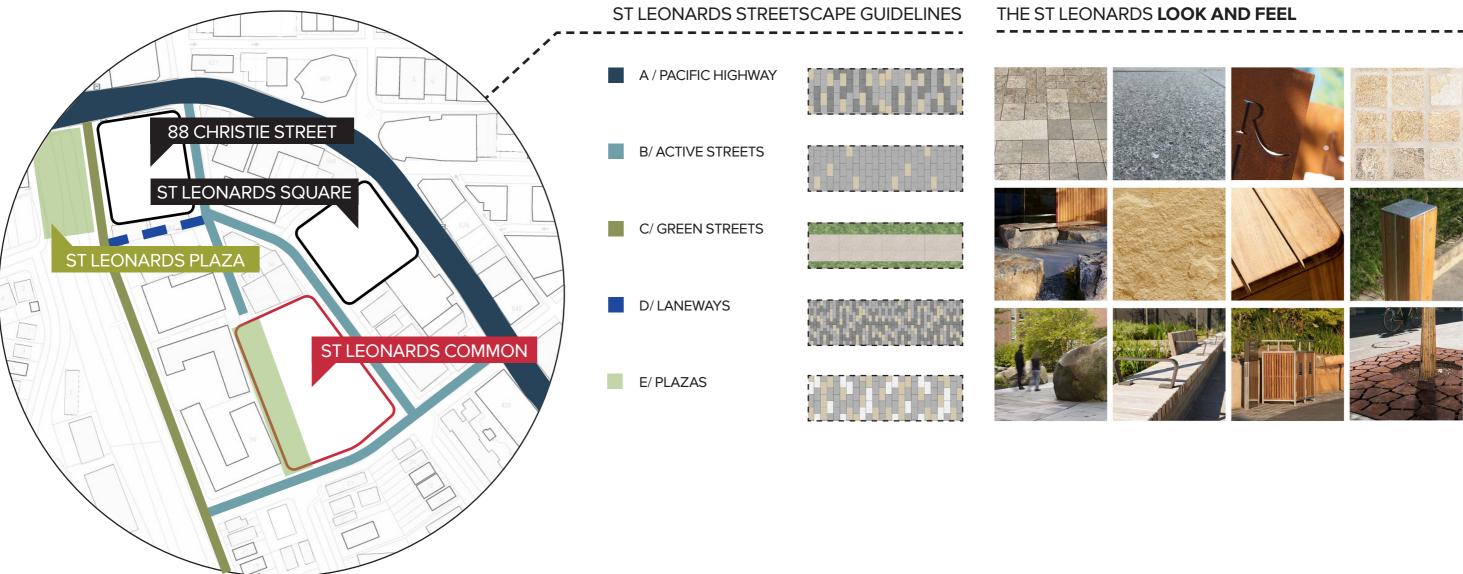
As the sun begins to set, most areas of the site are covered in shade.

## Strategy **Materials Strategy**

The materials selection for St Leonards Common will conform to the St Leonards Streetscape Guidelines developed by Arcadia.

The overall materiality character which is specified wihtin these guidelines include light and dark coloured grey unit pavers, sandstone, timber, and corten steel edging or the like for framing of planter beds or paving edges where necessary.

The St Leonards Common will also feature a materiality palette which is cohesive with the nearby developments of St Leonards Square and 88 Christie Street (Eighty Eight tower).

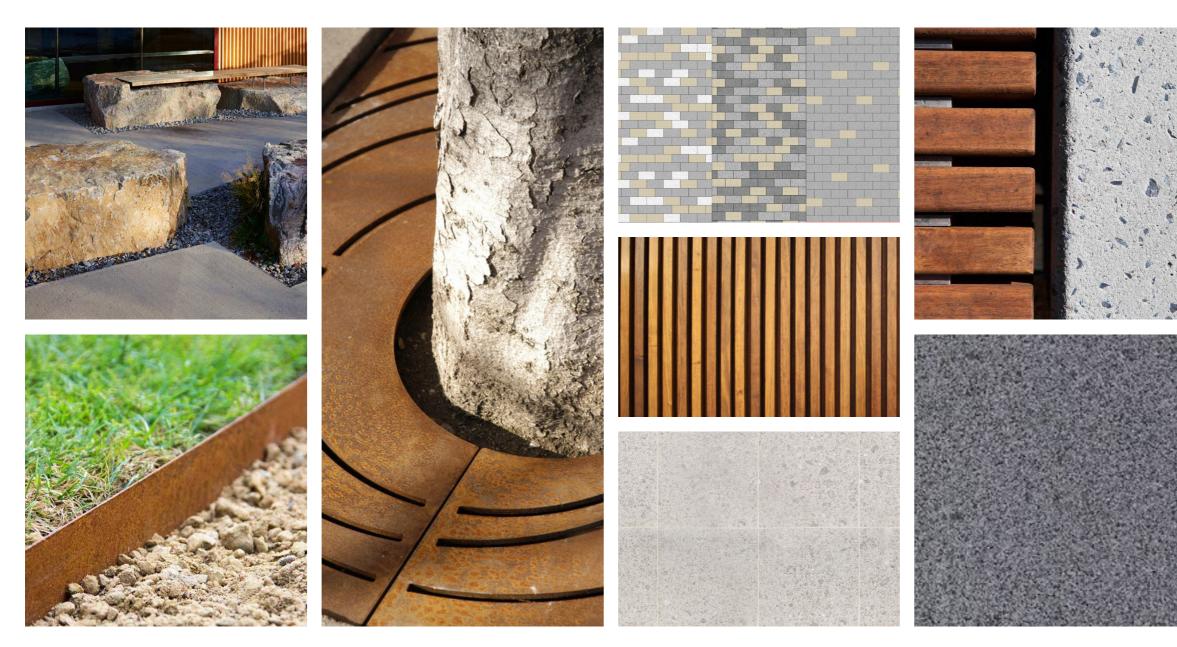


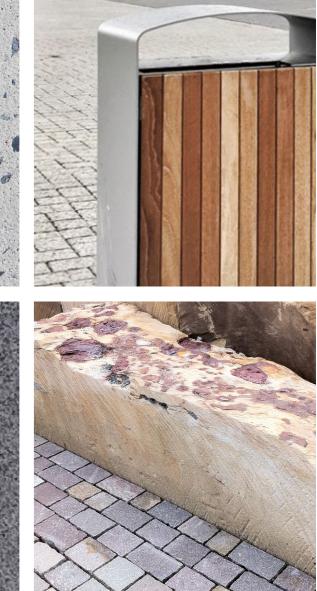


## Strategy Materials Palette

The materials palette for St Leonards Common will be reflective of the outlined guidelines.

Characterised by a preference for natural materials, high quality and durable finishes such as sandstone and timber will soften with age, providing for an element of natural process metaphorically through materiality. Unit pavers within the plaza space and street paths will conform to the specified guidelines, with a light and dark grey tile alternating in pattern and mixing in with a lighter coloured unit.





### Strategy Materials Plan



### P1-PLAZA PAVING

A mix of light and darker unit pavers
Continuation of honey jasper colour from streetscape paver

- In character with St Leonards streetscape



### **P3 - LANEWAY PAVING**

guidelines

**P2 - STREETSCAPE PAVING** 

- Grey and honey jasper paver

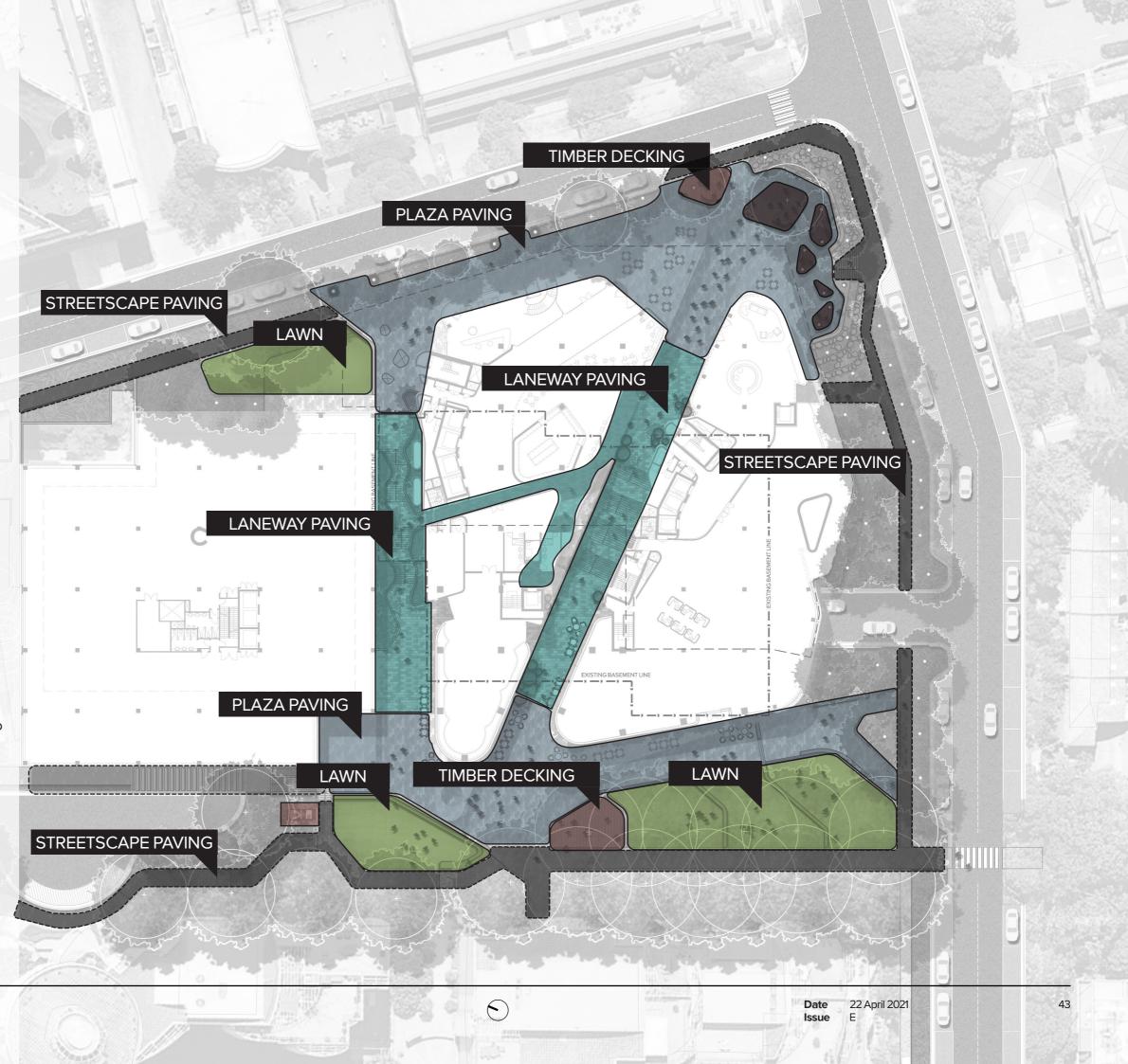
Similar mix to the plaza paving, with a darker unit paver included
Characterizes laneways and smaller spaces

#### **TIMBER DECKING**

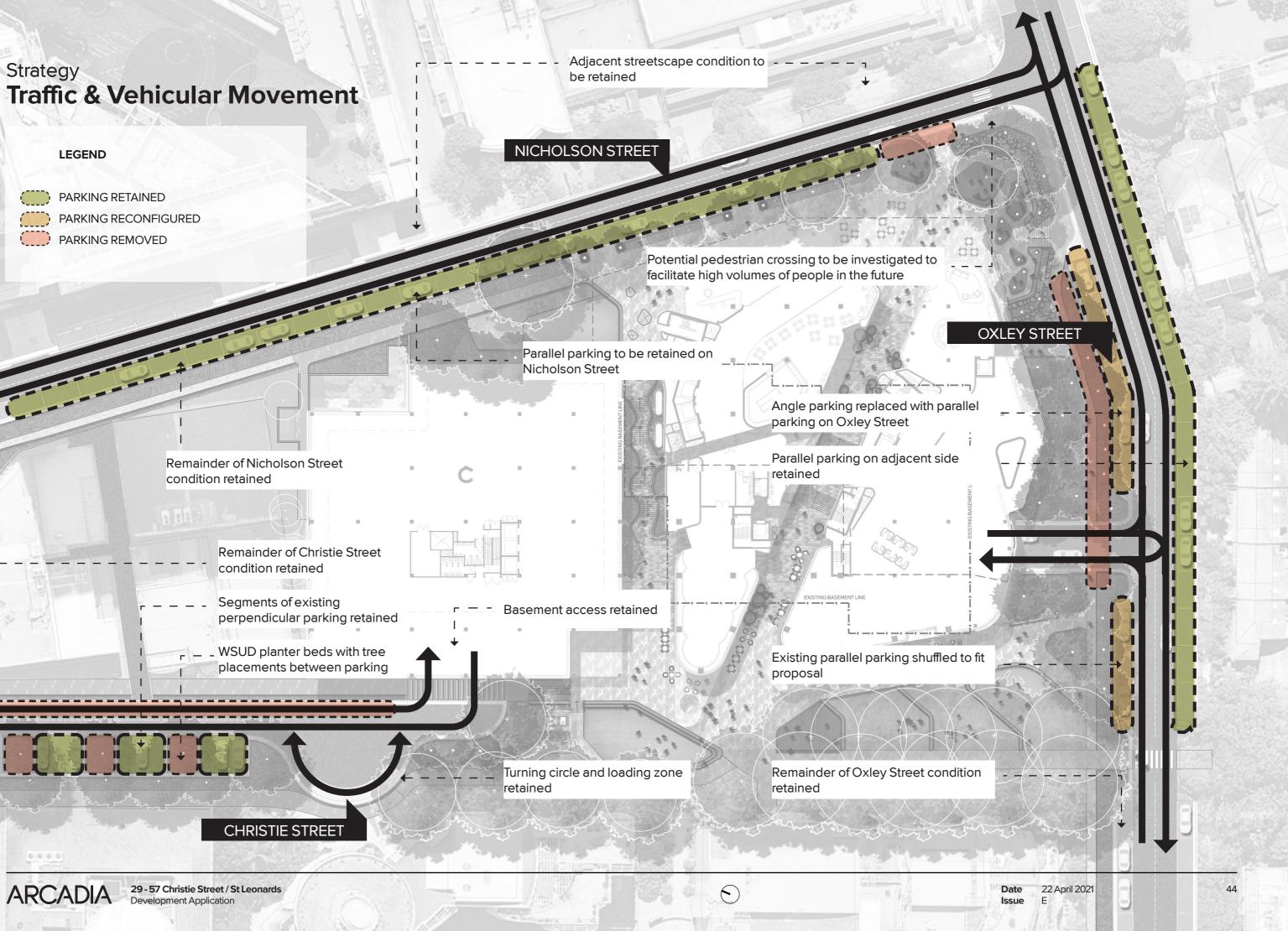
- Congregation spaces
- Elements within planting and green spaces

### LAWN

- Visually softer, provides nice green backdrop
- Community and family space child friendly
- Filtration for significant existing trees



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## Strategy Planting Typologies

#### **TYPOLOGY A/ NATIVE GRASS VERGE**

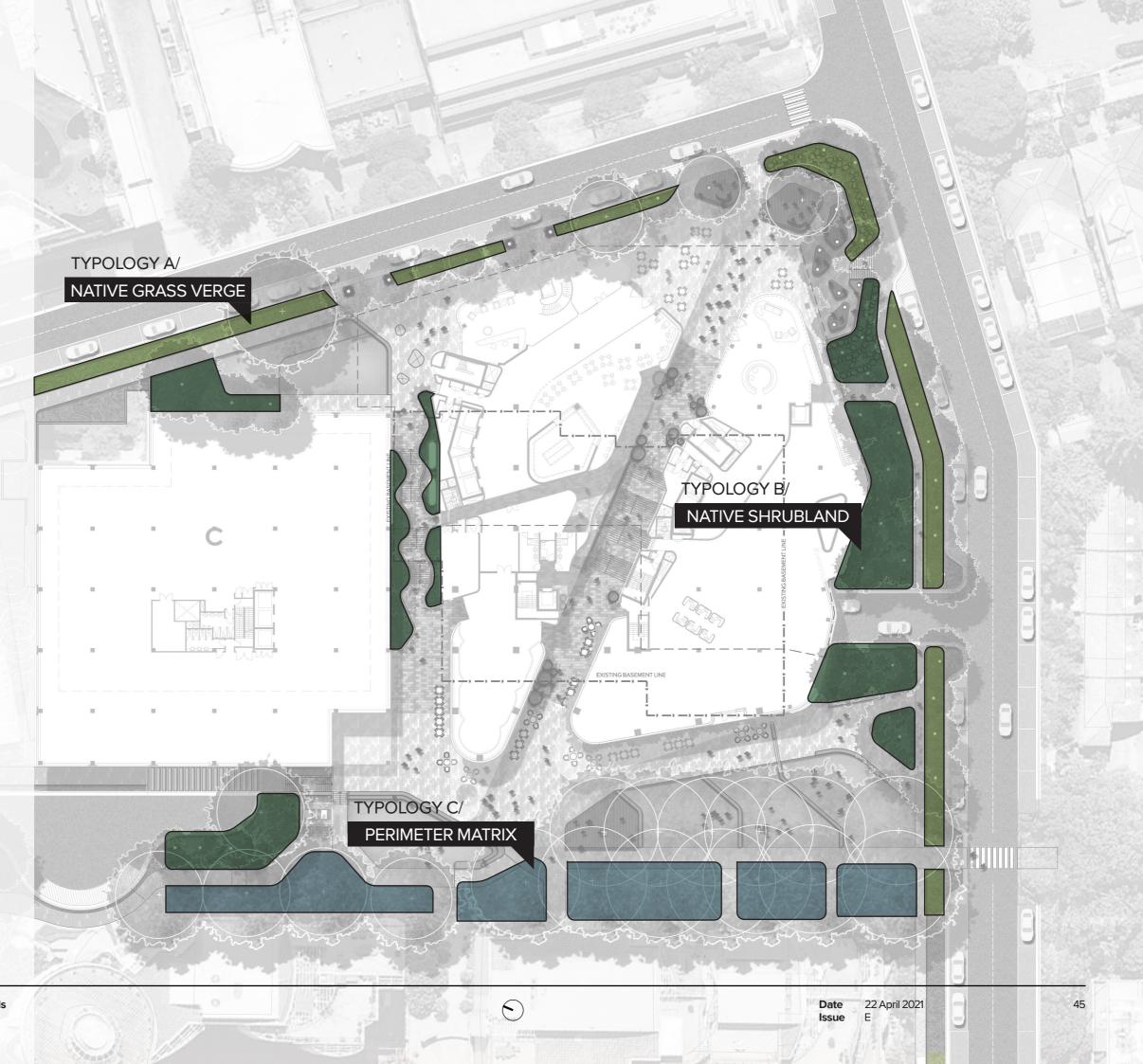
- Edge conditioning between paver and road
- Native grasses around base of street trees
- WSUD function through the absorption of runoff

### **TYPOLOGY B/ NATIVE SHRUBLAND**

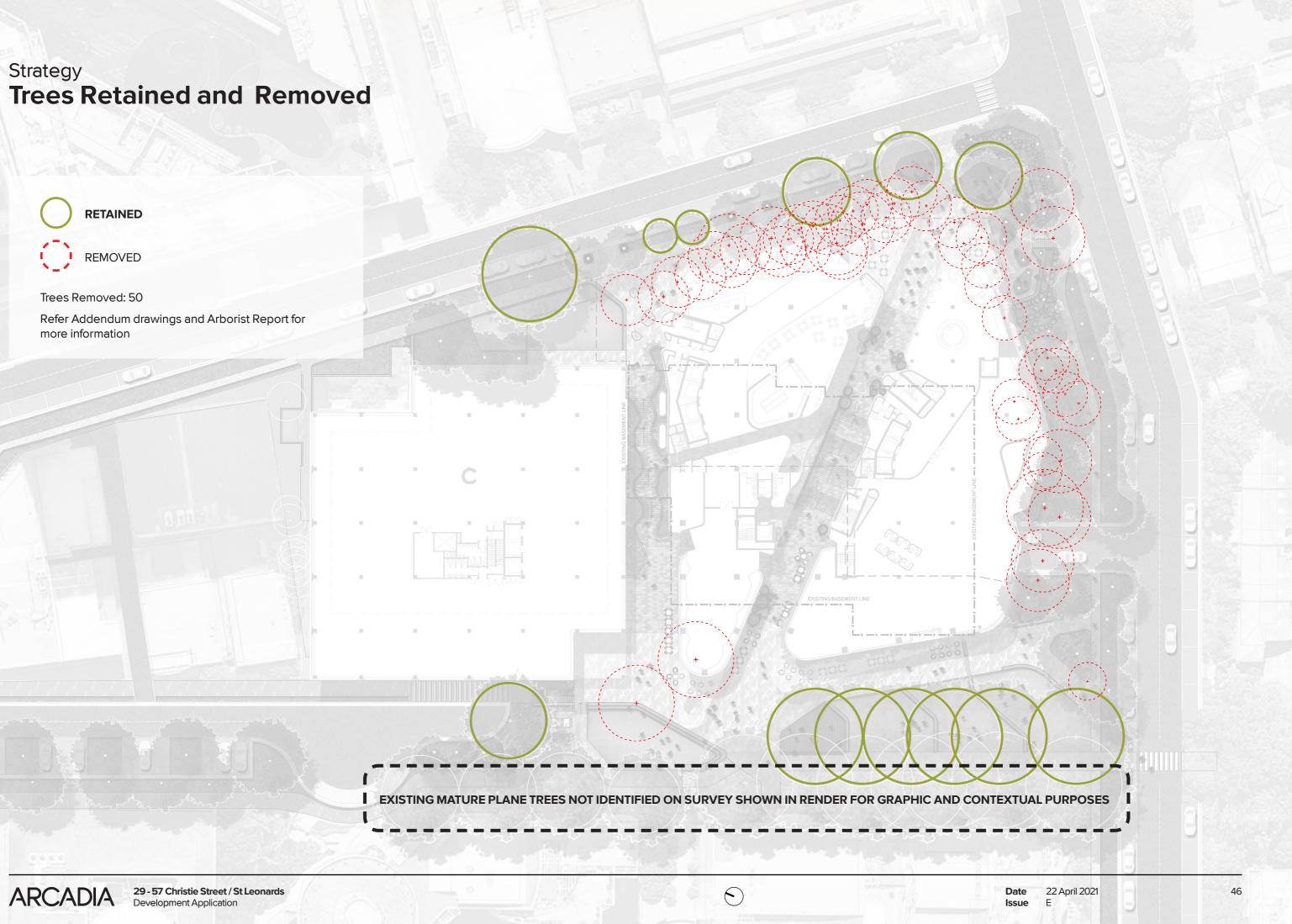
- Layered shrub elements to building facade
- Role of colour, texture and form
- A more 'wild' or 'natural' look and feel; many shrubs to provide habitat element

### TYPOLOGY C/ PERIMETER PLANT MATRIX

- A mix of shrubs and native grasses
- Privacy screening to adjacent property
- Crawling groundcovers around base of existing trees to reduce overpopulation of plants







## Strategy Trees Proposed

PROPOSED

Trees Proposed: 53

Refer Addendum drawings and Arborist Report for more information

EXISTING MATURE PLANE TREES NOT IDENTIFIED ON SURVEY SHOWN IN RENDER FOR GRAPHIC AND CONTEXTUAL PURPOSES

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### Strategy Landscape Calculations

SITE AREA (TO BOUNDARY) 7,636m<sup>2</sup> Area Softscape: 774m<sup>2</sup> = 10.14%

ADDITIONAL LANDSCAPE:

\_\_\_\_\_

STREETSCAPE PLANTING

Area Softscape: 2,836m<sup>2</sup>

### **ROOFTOP PLANTING**

Level 07: 383m<sup>2</sup> Level 10: 84m<sup>2</sup> Area Softscape: 467m<sup>2</sup>

#### **TREE REPLENISHMENT RATIO**

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Trees Removed: 50 Trees Proposed:53 Ratio = 1:1.06

Removal of Casuarina species constitutes large number of removed specimens.

**Refer Arborist Report** 



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# Strategy Deep Soil

SITE AREA (TO BOUNDARY) **7,636m<sup>2</sup>** Area (ON STRUCTURE): 101 m<sup>2</sup> Area (DEEP SOIL): 753m<sup>2</sup>

ADDITIONAL LANDSCAPE:

.....

STREETSCAPE PLANTING

Area (DEEP SOIL): 2,836m<sup>2</sup>

Refer Addendum drawings for more information on landscape area zones

SITE AREA 7,636m<sup>2</sup>

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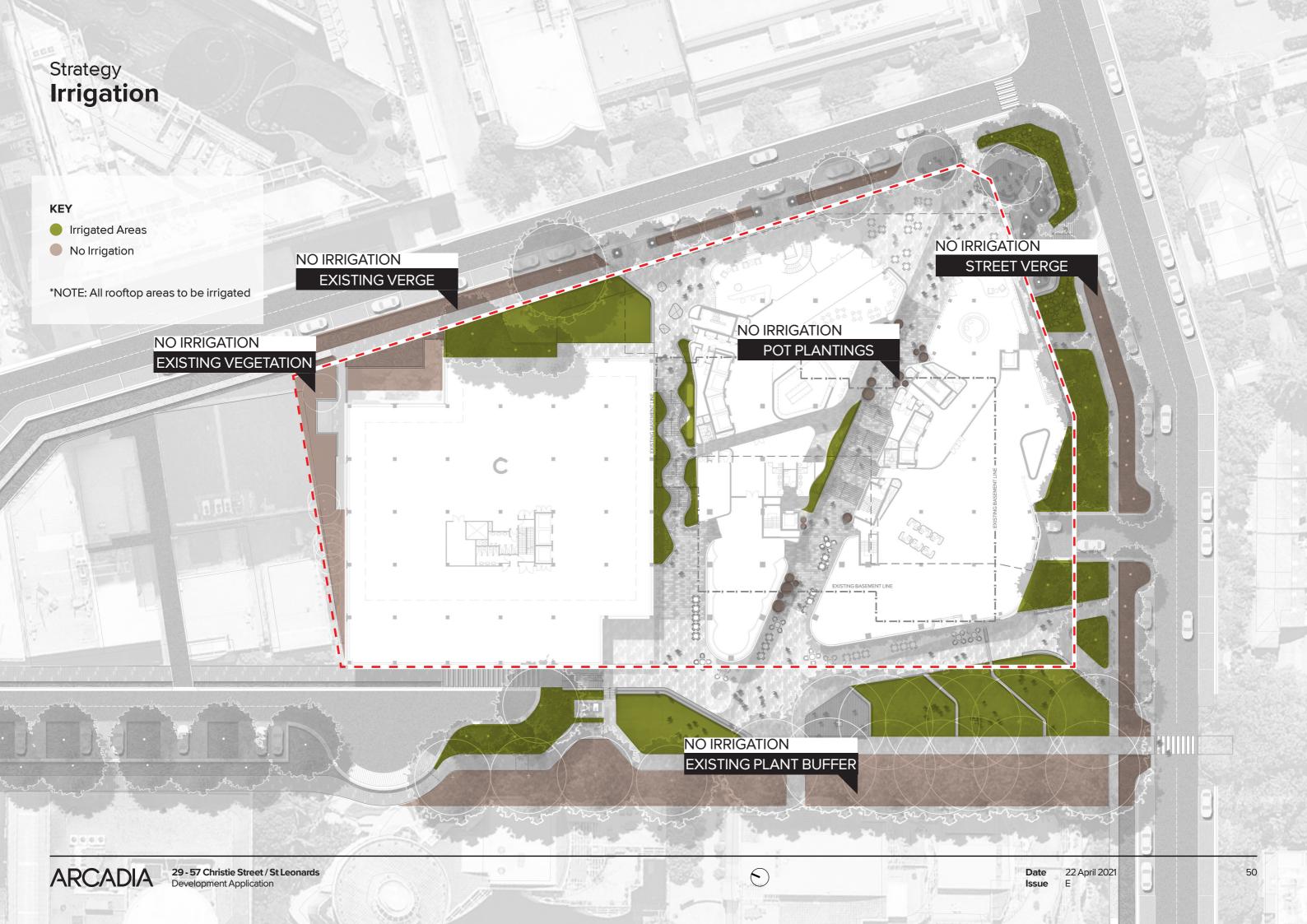
BASEMENT EXTENTS

SITE BOUNDARY UUU AREA SUBJECT TO FUTURE IMPROVEMENT

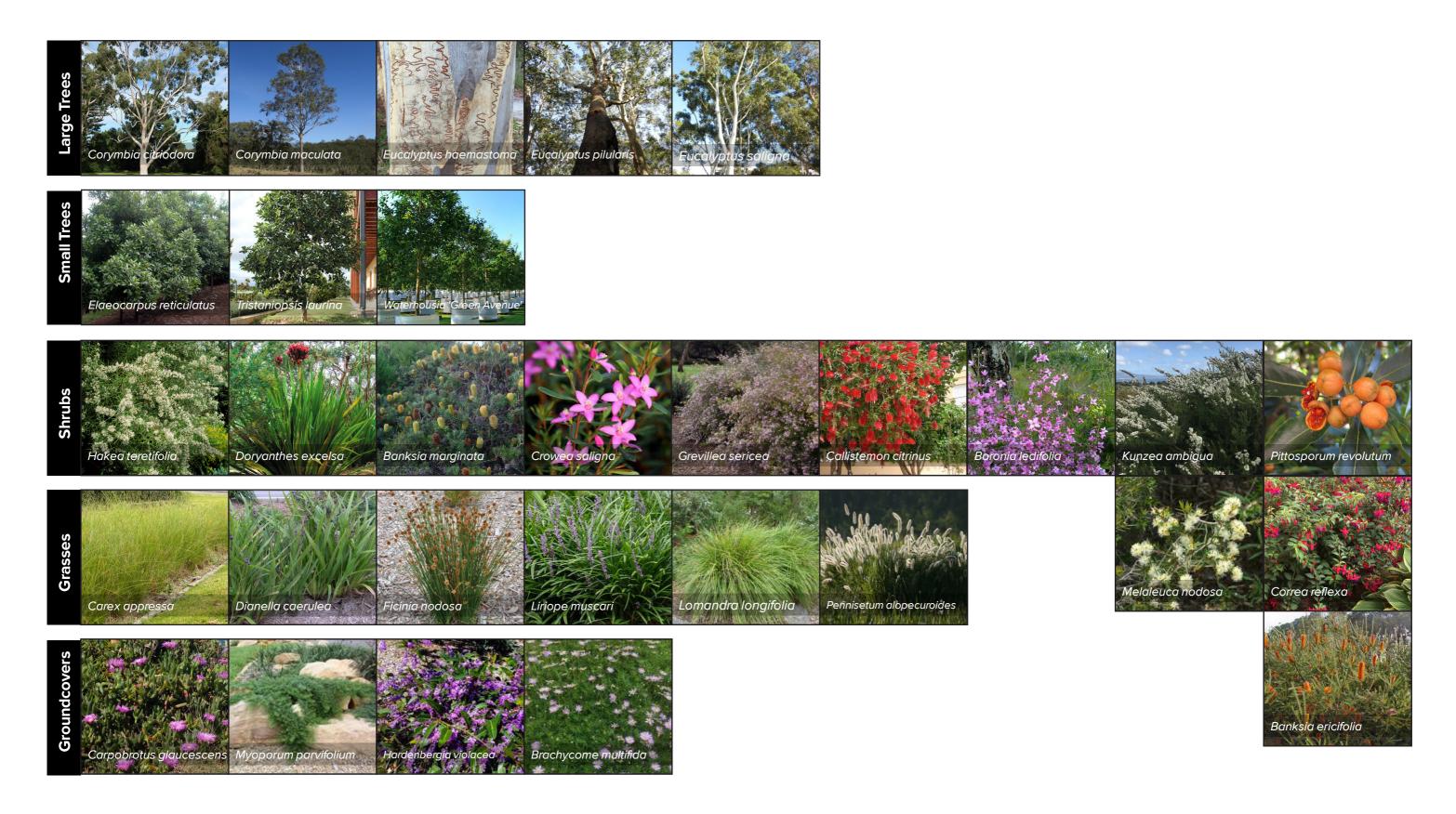
29 - 57 Christie Street / St Leonards Development Application ARCADIA



1.8



## Strategy Planting Palette - Ground Levels



# Strategy Planting Palette - Rooftop Spaces





## Strategy Planting Schedule

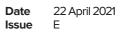
CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	QUANTITY				
GROUNDI									
	TREES								
_									
Cc	Corymbia citriodora	Lemon Scented Gum	7 x 4.5	800L	20				
Cm	Corymbia maculata	Spotted Gum	20 x 10	800L	8				
Eh	Eucalyptus haemastoma	Scribbly Gum	15 x 10		200L 8 200L 2				
Ep	Eucalyptus pilularis	Blackbut		20 x 10 200L					
Er	Elaeocarpus reticulatus	Blueberry Ash Sudaay Blue Cum	15 x 10 200L		2				
Es Tl	Eucalyptus saligna	Sydney Blue Gum Water Gum	30 x 10	800L 200L	5 8				
11	Tristaniopsis laurina 'Luscious'		10 x 5	200L	0				
SHRUBS & ACCENTS									
De	Doryanthes excelsa	Gymea Lily	3 x 1.5	300mm	148				
Ht	Hakea teretifolia	Dagger Hakea	2 x 2	300mm	39				
Bm	Banksia marginata	Silver Banksia	3 x 3	300mm	356				
Gs	Grevillea sericea	Pink Spider flower	1.5 x 2	300mm	108				
Cc	Callistemon citrinus	Bottlebrush	6 x 3	300mm	40				
BI	Boronia ledifolia	Sydney Boronia	1 x 1	300mm	38				
Ka	Kunzea ambigua	Tick Bush	2.5 x 2.5	300mm	36				
Pr	Pittosporum revolutum	Yellow Pittosporum	3 x 2	300mm	29				
Mn	Melaleuca nodosa	Prickly-leaved paperbarl	3 x 2.5	300mm	17				
Cr	Correa reflexa	Native fuchsia	1 x 1	300mm	58				
Be	Banksia ericifolia	Heath Banksia	2 x 3	300mm	16				
	FERNS								
Aa	Asplenium australasicum	Birds Nest Fern	1.5 x 1.5	300mm	29				
Bc	Blechnum cartilagineum	Soft fern	1 x 1	300mm	28				
Cco	Cyathea cooperi	Scaly Tree Fern	5 x 2	300mm	6				
	GRASSES & RUSHES								
Lt	Lomandra tanika	Mat Rush	0.6 × 0.6	150mm	629				
Са	Carex appressa	Tall sedge	0.5 -1 x 0.5-1	150mm	250				
Dc	Dianella caerulea	Flax Lily	0.5 × 0.5	150mm	465				
Fn	Fincinia nodosa	Knobby Club rush	1 x 0.8	150mm	168				
Pa	Pennisetum alopecuroides	Swamp Foxtail	1 x 1	150mm	307				
Lm	Liriope muscari	Lilyturf	0.5 x 0.5	150mm	140				
	GROUNDCOVERS & CLIMBERS								
Cg	Carpobrotus glaucescens	Pig Face	0.25 x spreading	150mm	186				
Ηv	Hardenbergia violacea	False Sarsaparilla	0.25 x spreading	150mm	177				
Мру	Myoporum parvifolium 'Yareena'	Yareena Myoporum	0.1 x 1	150mm	426				
Bm	Brachycome multifida	Cut Leaf Daisy	0.25 x 1	150mm	396				



## Strategy Planting Schedule

CODE	BOTANIC NAME	COMMON NAME	MATURE SIZE (h x w) (m)	PROPOSED POT SIZE	QUANTITY - L07	QUANTITY - L10	TOTAL QUANTITY			
ROOFTOP	SPACES					-	-			
	TREES		-			•	•			
MgT WGA CW Cg	<i>Magnolia grandiflora</i> 'Teddy Bear' <i>Waterhousia floribunda '</i> Green Avenue' <i>Corymbia ficifolia '</i> Wildfire' <i>Ceratopetalum gummiferum</i>	Dwarf Magnolia Weeping Lilly Pilly Wildfire Gum NSW Christmas Bush	4 x 3 8 x 5 6 x 3 4 x 2	75L 75L 75L 75L	3 3 3	1 2 2	4 5 2 3			
	SHRUBS									
Abr Cr Cs Dg Gj	Anigozanthus 'Big Red' Correa reflexa Crowea saligna Dietes grandiflora Grevillea juniperina	Kangaroo Paw Native fuchsia Willow leaved crowea Native Iris Juniper-leaf Grevillea	1.5 x 1.5 1 x 1 1 x 1.5 1.5 x 1 1.5 x 1.5	200mm 200mm 300mm 150mm 200mm	38 62 44 61 25	8 6 9 15 7	46 68 53 76 32			
	GRASSES & RUSHES									
Dc Lm Ps Pp	Dianella caerulea Liriope muscari Patersonia sericea Poa poiformis 'Kingsdale'	Flax Lily Lilyturf Silky Purple Flag Blue Tussock Grass	0.6 x 0.6 0.5 x 0.5 0.4 x 0.4 0.5 x 0.5	150mm 150mm 150mm 150mm	43 6 105 93	62 9 36	43 68 114 129			
	GROUNDCOVERS & CLIMBERS									
Hs Hv Smc	Hibbertia scandens Hardenbergia violacea Scaevola 'Mauve Clusters'	Snake Vine False Sarsaparilla Fan Flower	0.15 x spreading 0.25 x spreading 0.25 x spreading	150mm 150mm 150mm	301 142 117	15 42	316 142 159			





# **05** ADDENDUM

