



42 DUNMORE STREET WENTWORTHVILLE LANDSCAPE DESIGN REPORT

LANDSCAPE & PUBLIC
REALM DESIGN REPORT

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WENTWORTHVILLE TOWN CENTRE COULD DEMONSTRATE HOW URBAN REVITALISATION SHOULD BE ACROSS METROPOLITAN SYDNEY', SAYS THE URBAN TASKFORCE CEO CHRIS JOHNSON, "WENTWORTHVILLE CENTRE NEEDS A BIG DOSE OF REVITALISATION TO BOOST ITS ECONOMIC VIABILITY...IT IS CENTRES LIKE THIS SITUATED AROUND A RAILWAY STATION THAT MUST PULL THEIR WEIGHT WITH A GOOD AMOUNT OF HOUSING, JOBS AND RETAIL DEVELOPMENT

THE URBAN DEVELOPER.COM, 24 APRIL, 2015

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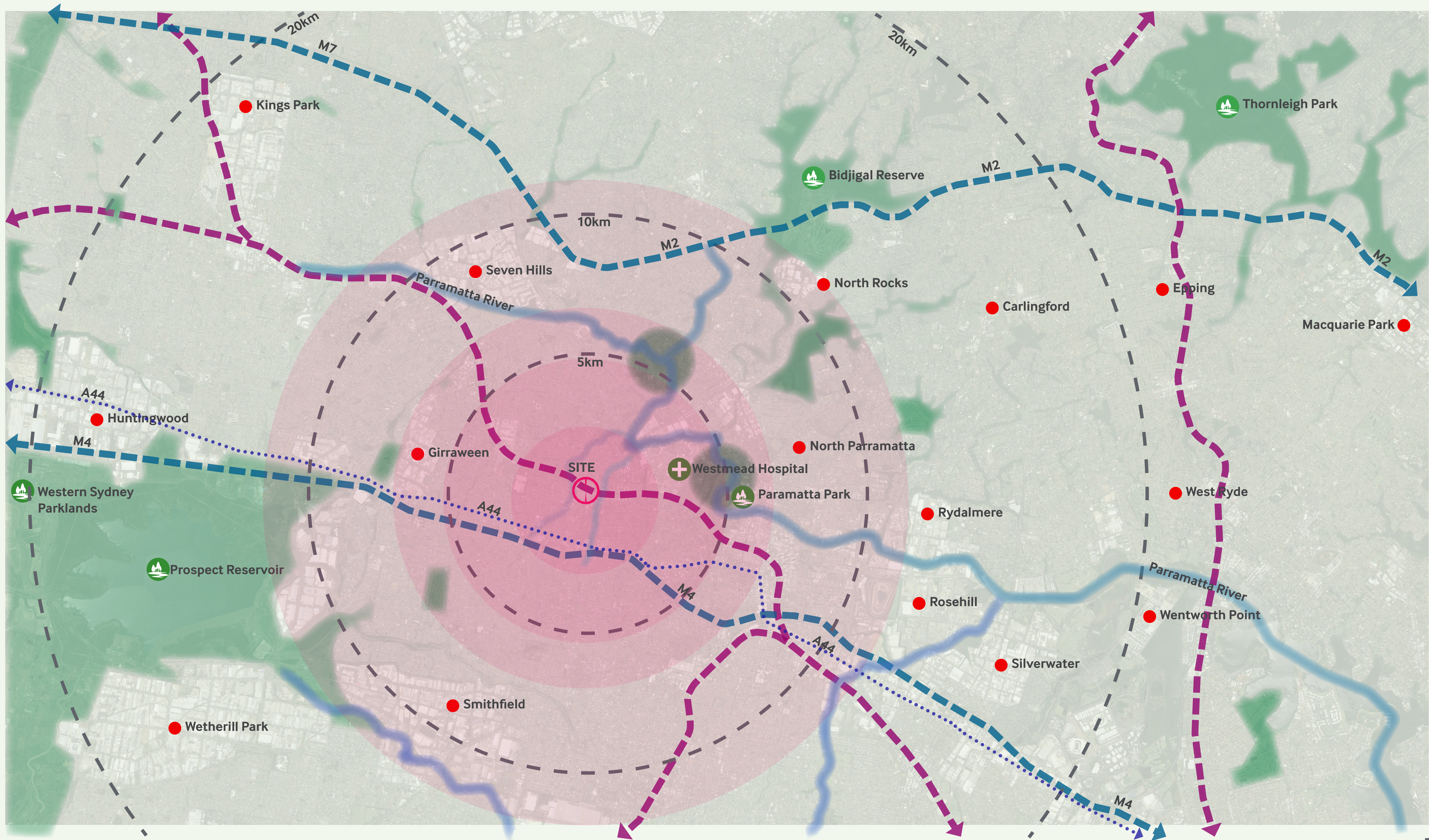




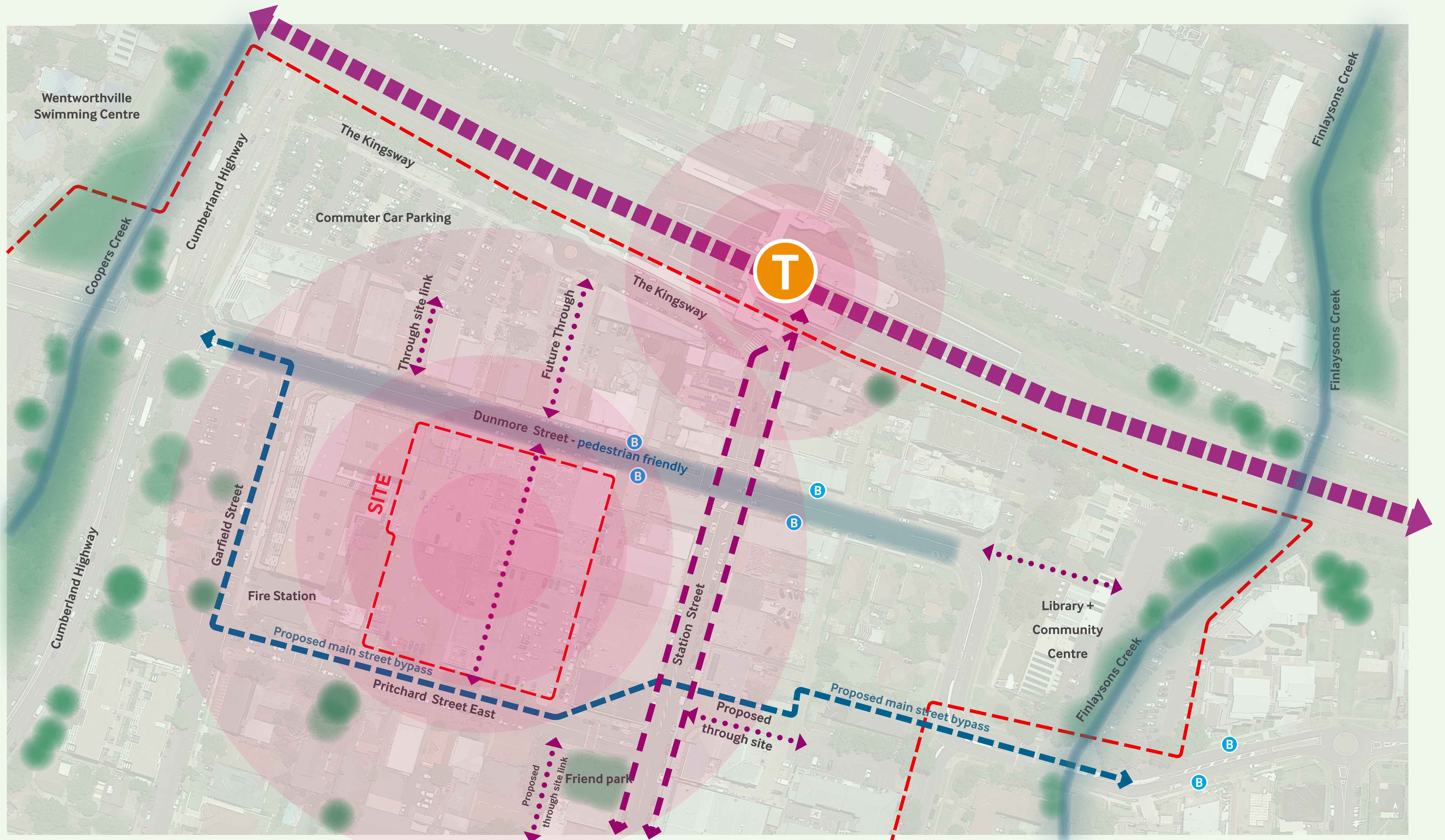
1.0

SITE
UNDERSTANDING

1.1 CONTEXT - REGIONAL



1.2 CONTEXT - LOCAL



1.3 UNDERSTANDING THE DCP & PUBLIC REALM PLAN

Structure Plan DCP 2017



- To establish a landmark, mixed use and transit-oriented heart for the town centre that signifies the importance of Wentworthville within the Cumberland centres hierarchy
- To contribute to the creation of a distinct sense of place for the centre that acknowledges its past and embraces its future as a vibrant, urban location
- To strengthen the retail and employment role of the centre
- To improve the permeability of the centre for pedestrians, including the provision of a through-site link between Dunmore Street and Prichard Street
- To provide publicly-accessible open space that allows for informal gathering, interaction and recreation
- To provide an integrated series of well-designed and publicly accessible urban plazas that cater for informal gathering, interaction and recreation.
- To ensure publicly accessible open space has appropriate levels of sunlight, shade, air circulation and safety.
- To design public open space to improve the environmental performance of the site and the overall town centre, including for stormwater management, biodiversity and reducing the urban heat island effect

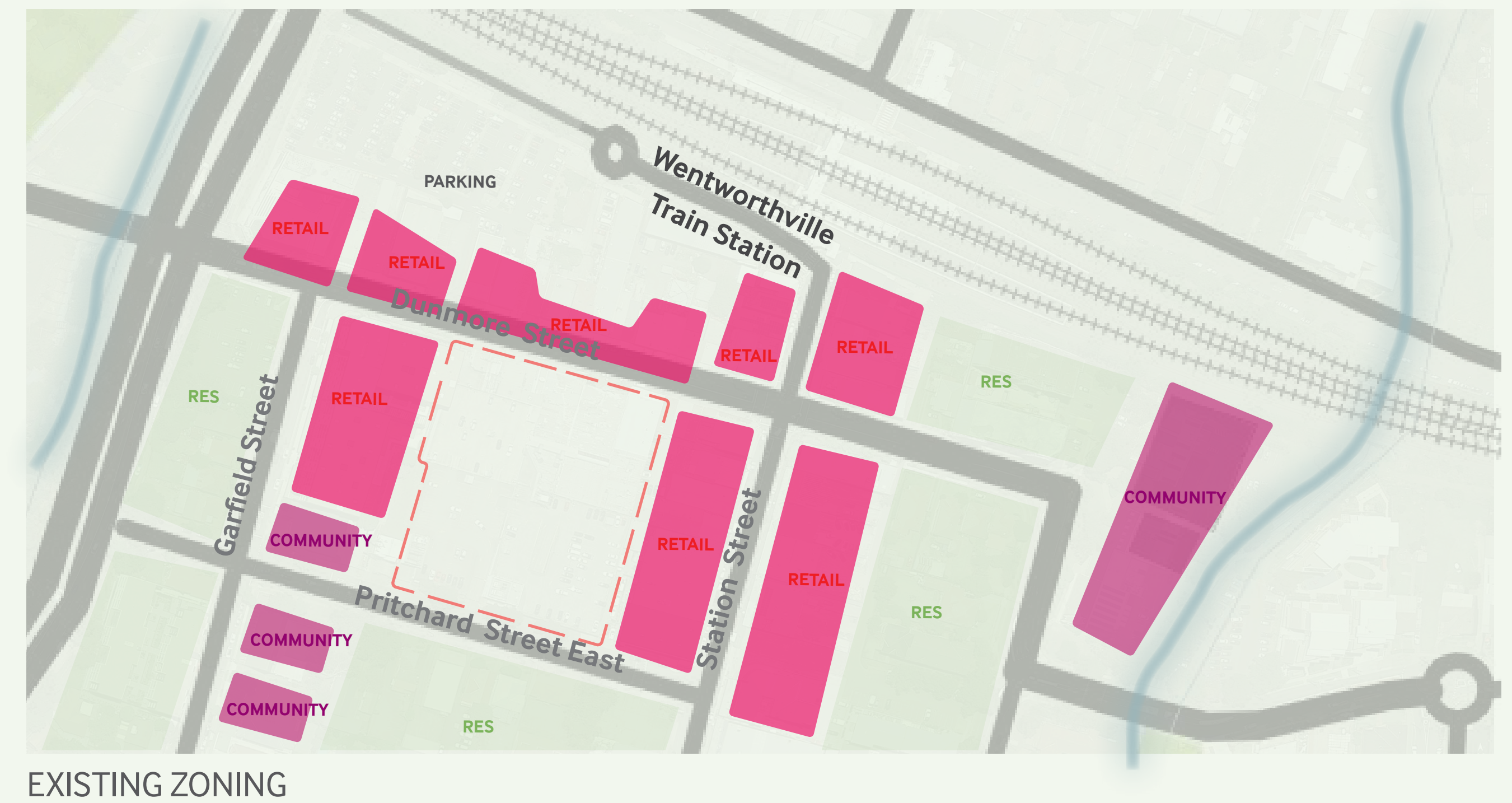
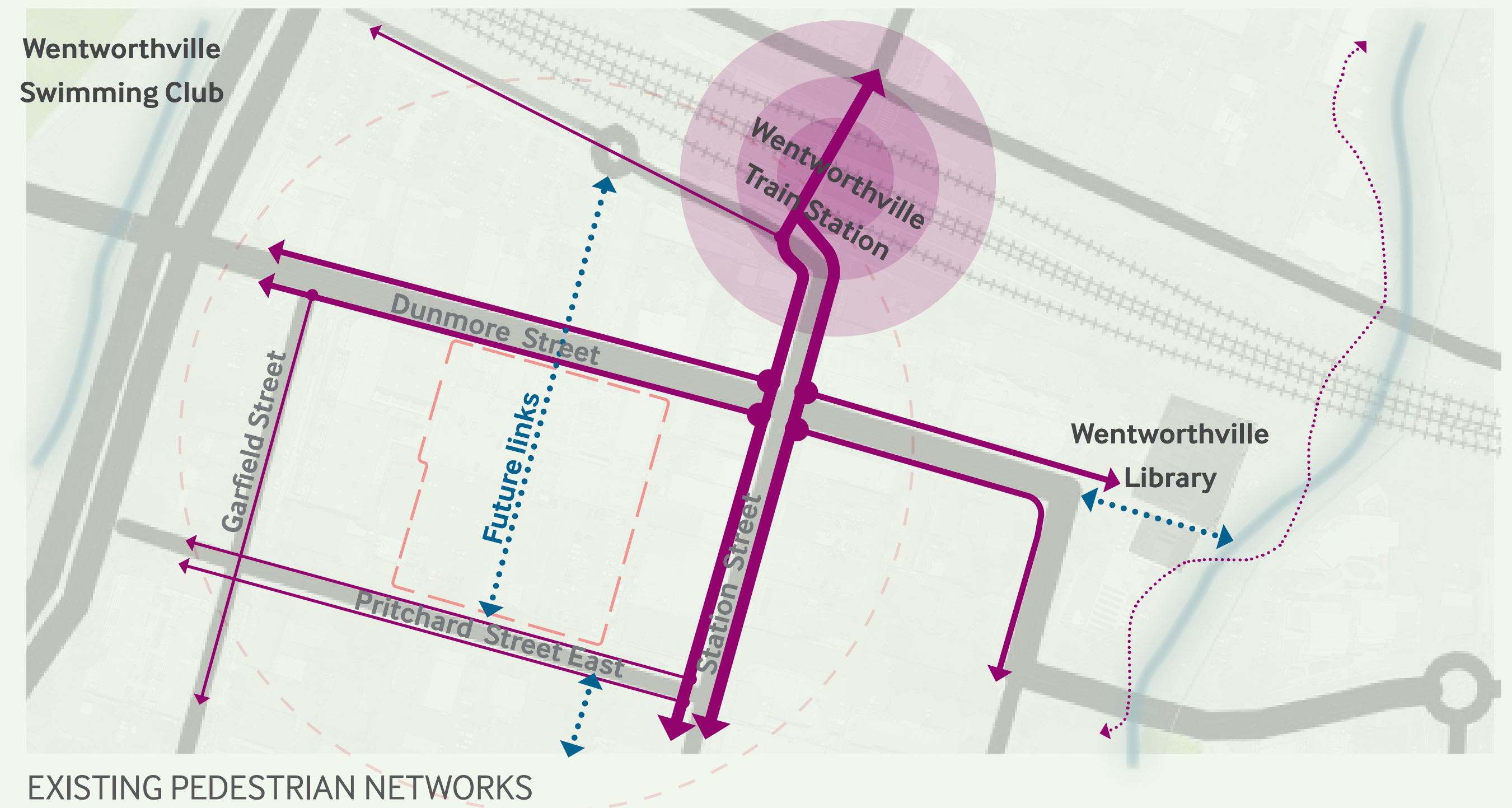
Public Realm Plan (2019)



The Wentworthville planning and place making strategy was based on extensive community consultation, urban design study modelling and numerous specialist studies. The strategy includes a built form structure plan, open space and public domain structure plan and connectivity structure plan. The key elements of the Wentworthville centre structure plan domain includes:

- New linear plaza along the southern side of Dunmore Street. This space is intended to be a tree-lined public promenade/pedestrian mall that supports outdoor dining, shaded seating, areas with public art, feature lighting and WSUD.
- Improved pedestrian link at the existing arcade
- New plaza at the library and civic hub at the end of Dunmore Street and revitalised parkland along Finlaysons creek to enhance the civic precinct and provide much needed open space within the centre.
- Improved and enhanced street tree planting along streets to improve streetscape character and enhance amenity with the centre

1.4 SITE ANALYSIS



1.5 COMMUNITY ASPIRATIONS

The findings of the community consultation were captured in the Community Participation Report and together with the other expert studies, form the foundation to this Strategy. The community participation report provided five community aspiration themes or a personality that the community values and wants to keep and also reflect the desired future character of the Centre. The community indicated they want Wentworthville Centre to be a place that is:

CREATIVE - FUN, LIVELY, RELAXED

COLOURFUL - GREEN, VIBRANT, ATTRACTIVE

PROGRESSIVE - DIVERSE, MODERN, ENTREPRENEURIAL

EFFICIENT - FUNCTIONAL, CONNECTED, CLEAN

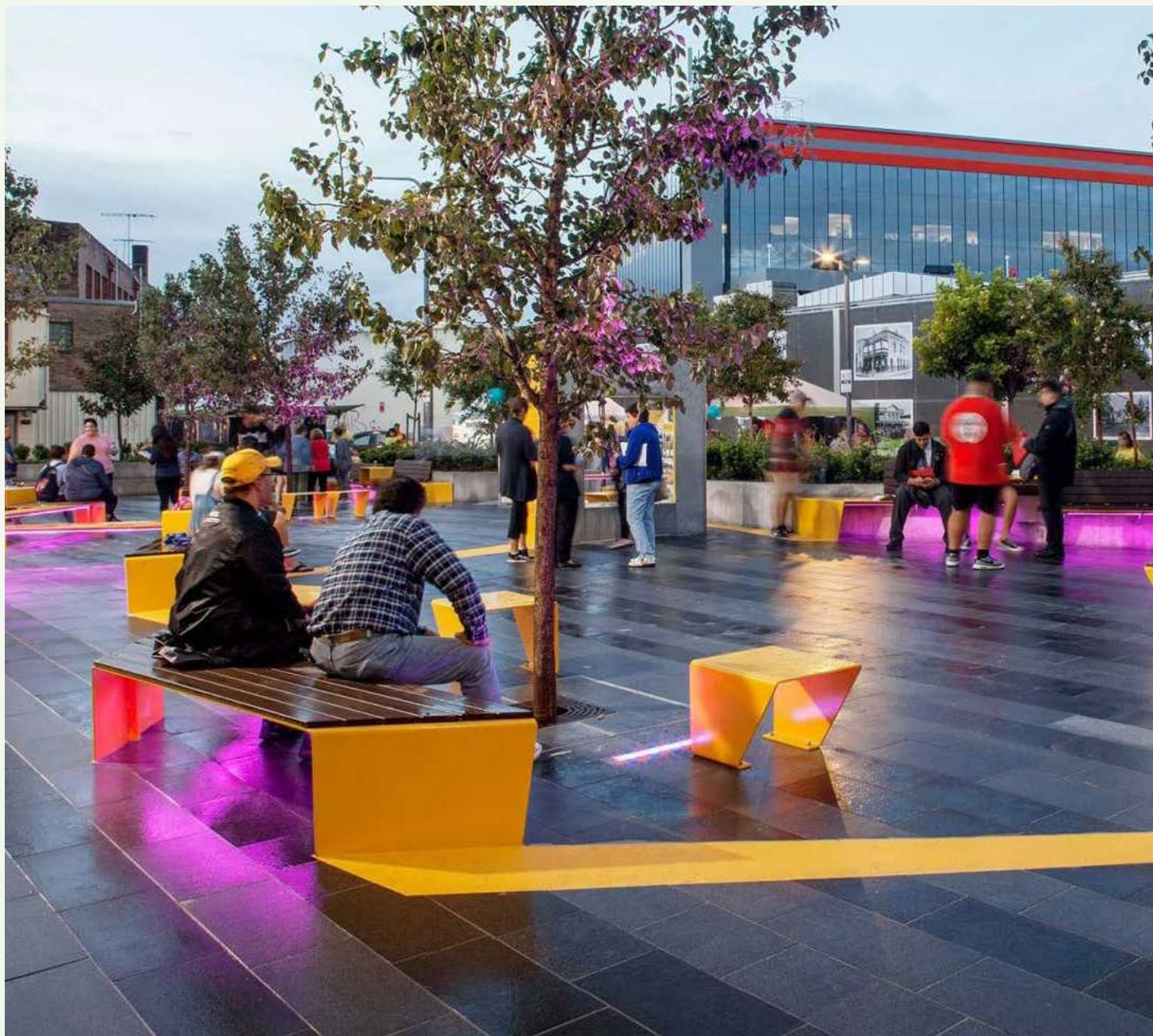
LOCAL - FRIENDLY, COMFORTABLE, SAFE



LEAFY STREETS



VIBRANT & COLOURFUL



EFFICIENT AND ATTRACTIVE



LIVELY AND DIVERSE



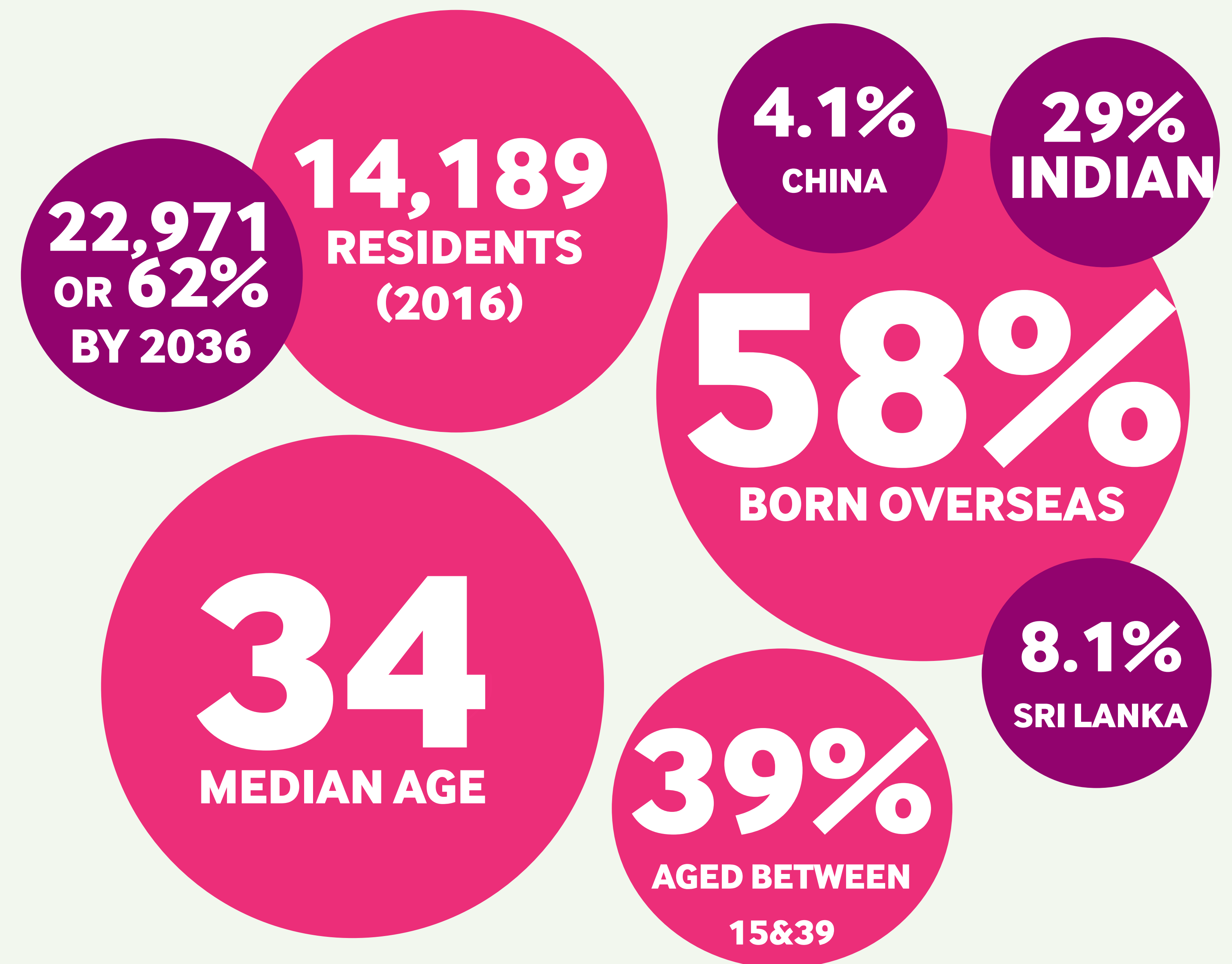
1.6 LOCAL CHARACTER

CULTURAL HISTORY

The findings of the community consultation were captured in the Community Participation Report and together with the other expert studies form the foundation to this strategy. The community participation report provided five community aspiration themes or a personality that the community values and wants to keep, reflecting the desired future character of the centre. The community indicated they want Wentworthville Centre to be a place that is:

ENVIRONMENTAL HISTORY

The natural landscape character of Wentworthville was Eucalypt Woodland and Tall Open-Forest (Dry Sclerophyll)



PRITCHARD STREETSCAPE



FRIEND PARK



DUNMORE STREETSCAPE



WENTWORTHVILLE TRAIN STATION





2.0 DESIGN VISIONING

2.1 VISION STATEMENT

Wentworthville will be a new vibrant mixed-use neighbourhood with buildings arranged to maximise residential amenity outcomes and a diverse open space network creating an inclusive, community oriented public domain. We propose an urban design framework which enhances the existing character of the site, linking the railway station with a series of high quality public open spaces. A new main public plaza will be activated by retail uses, alongside a series of hard and soft landscaped

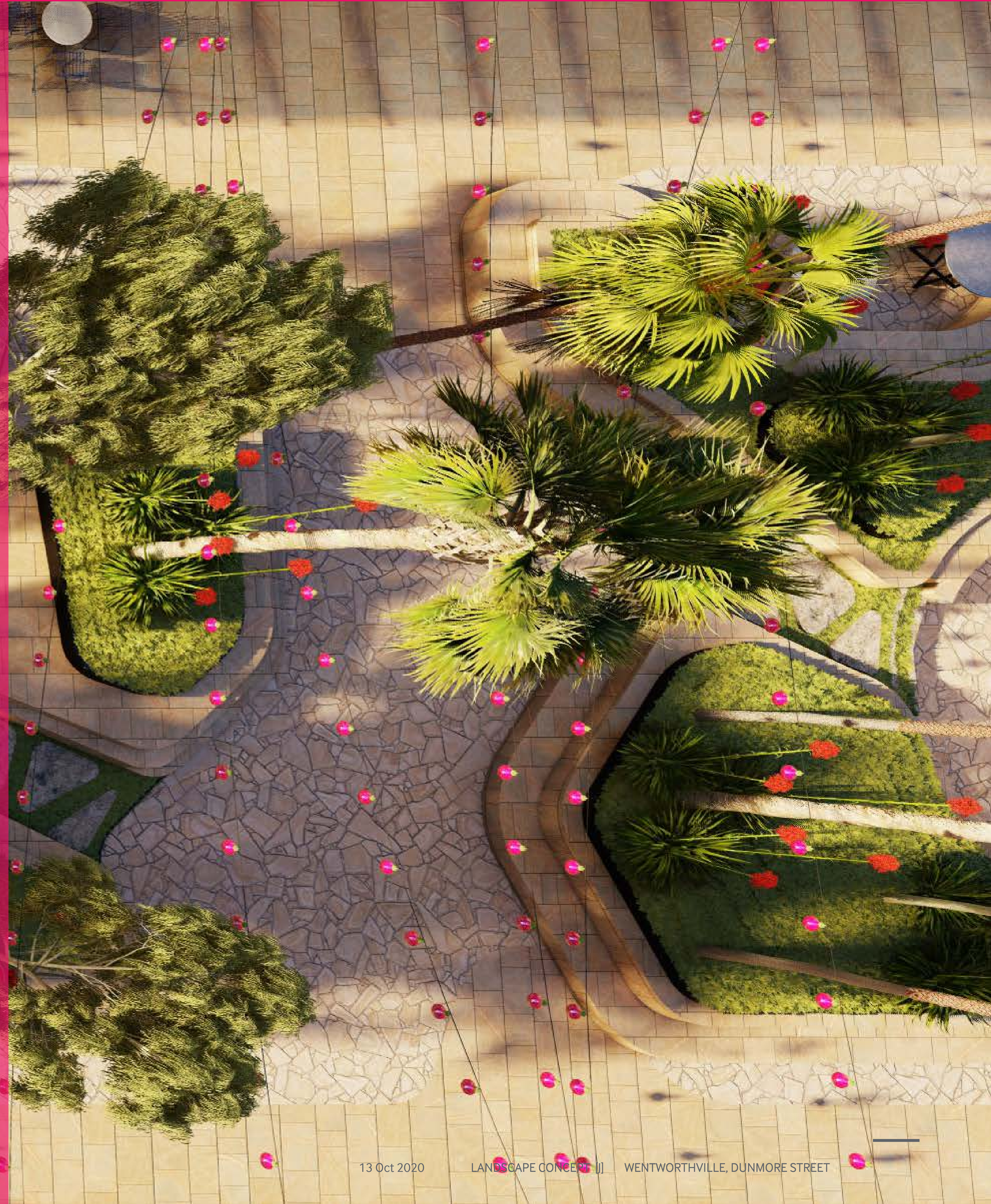
The proposed plaza will reflect the five community aspirations that have come out of the lengthy community consultation process, Wentworthville will be a place that is:

- creative - fun, lively, relaxed
- colourful - green, vibrant, attractive
- progressive - diverse, modern, entrepreneurial
- efficient - functional, connected, clean
- local - friendly, comfortable, safe

The landscape and public realm proposal seeks to establish a landmark, mixed use and transit-oriented heart for the town centre that signifies the importance of Wentworthville within the Cumberland centres hierarchy. This will be achieved through the creation of a distinct sense of place for the centre that acknowledges its past and embraces its future as a vibrant, urban location and reinforce the role of Dunmore Street as the centre's main street.

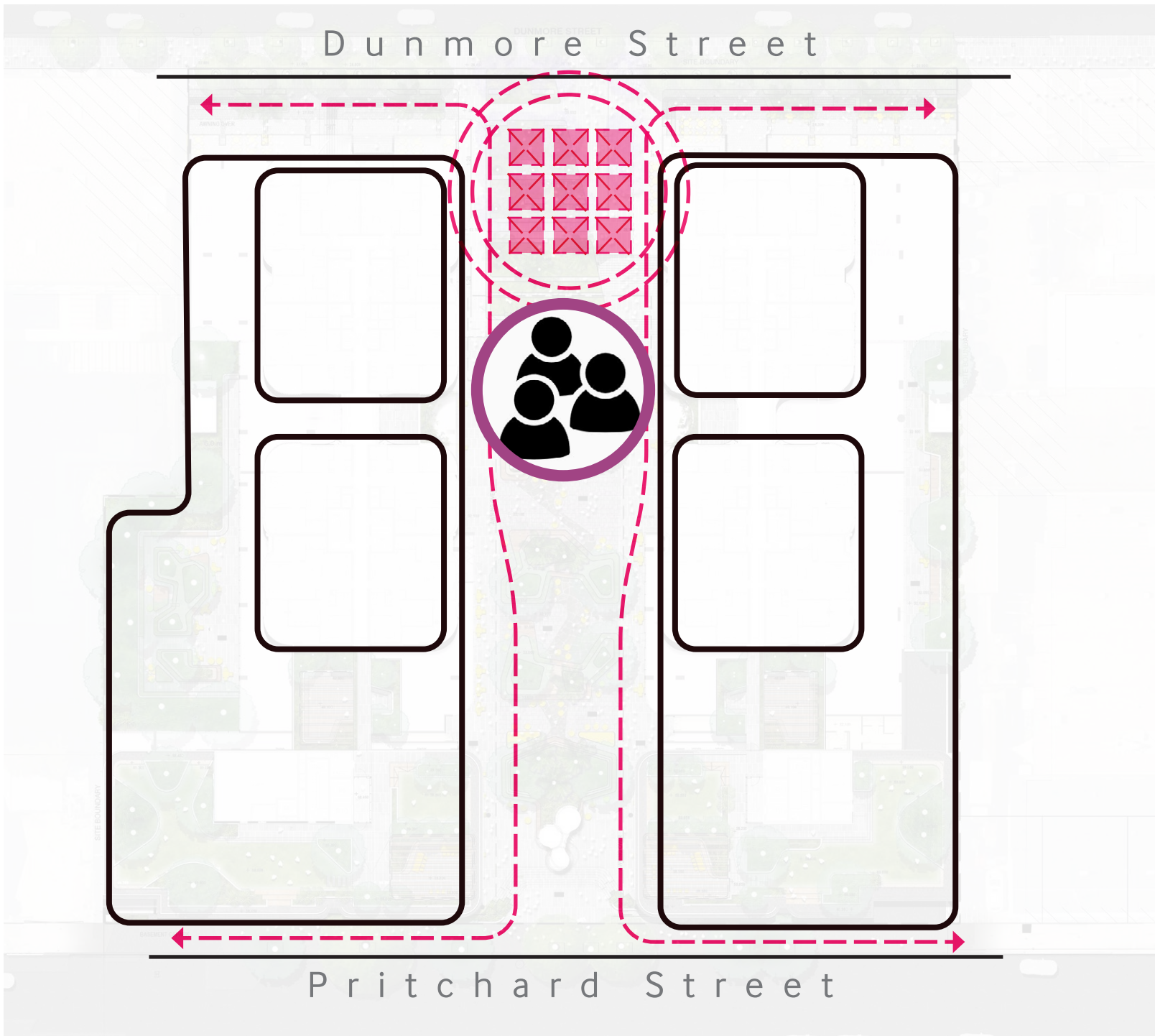
The public will be provided with an improved, permeable and leafy link that connects Pritchard street to Dunmore Street and onto the Railway Station. The new link will be integrated with a series of well-designed and publicly accessible urban plazas that cater for informal gathering, interaction and recreation , designed to allow for appropriate levels of sunlight, shade, air circulation and safety.

Sustainable systems will be integrated into the proposal, allowing for water sensitive urban design initiatives within the public realm, including rainwater harvesting and collection to irrigate the landscape. Canopy cover will be abundant ensuring Wentworthville is a green and cool place to live, promoting urban greening and biodiversity in an area that is suffering from the urban heat island effect, planting will reflect the local endemic character of Western Sydney while also promoting colour that reflects the communities aspiration for Wentworthville.

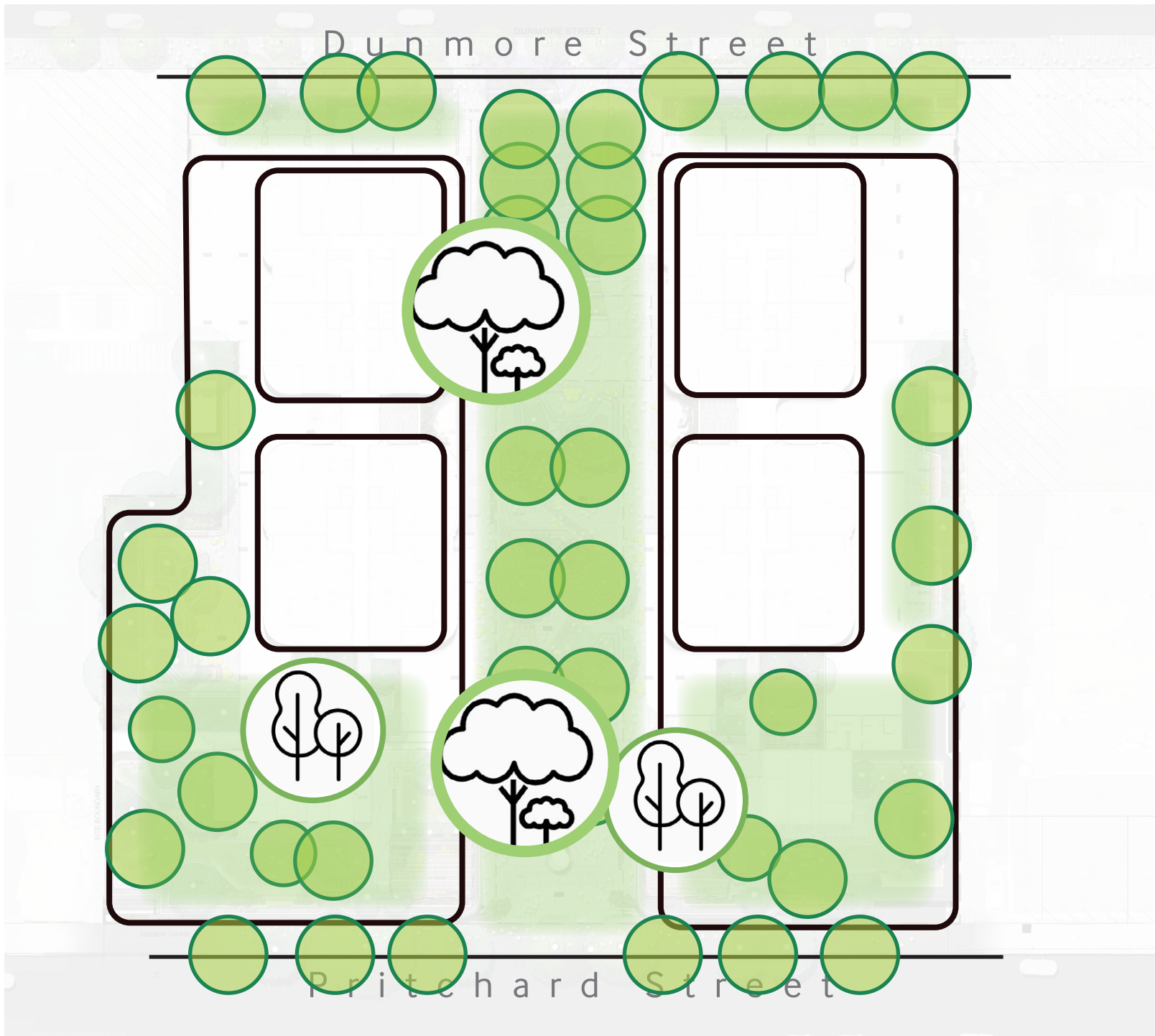


2.2 DESIGN PRINCIPLES

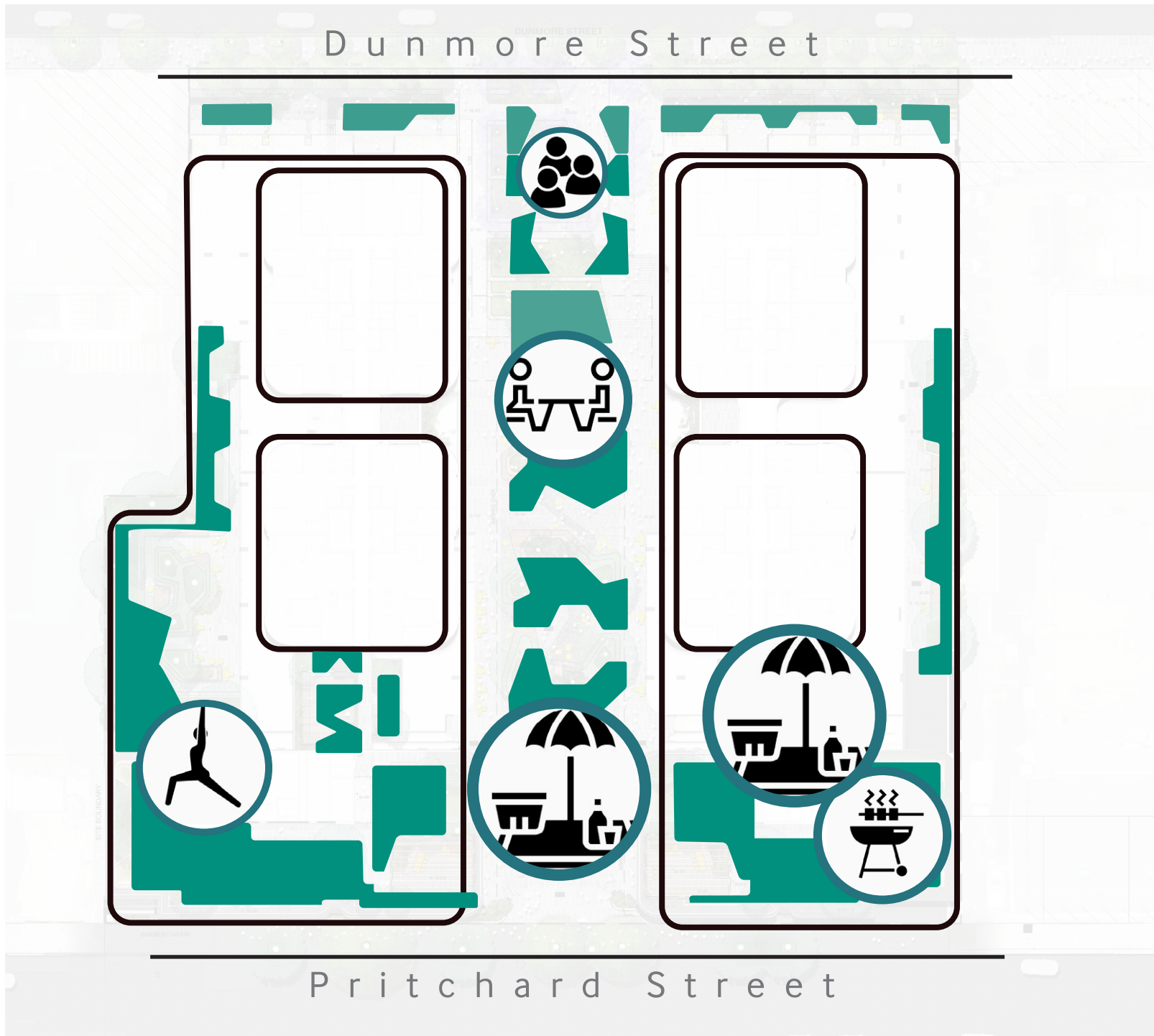
Flexible Spaces

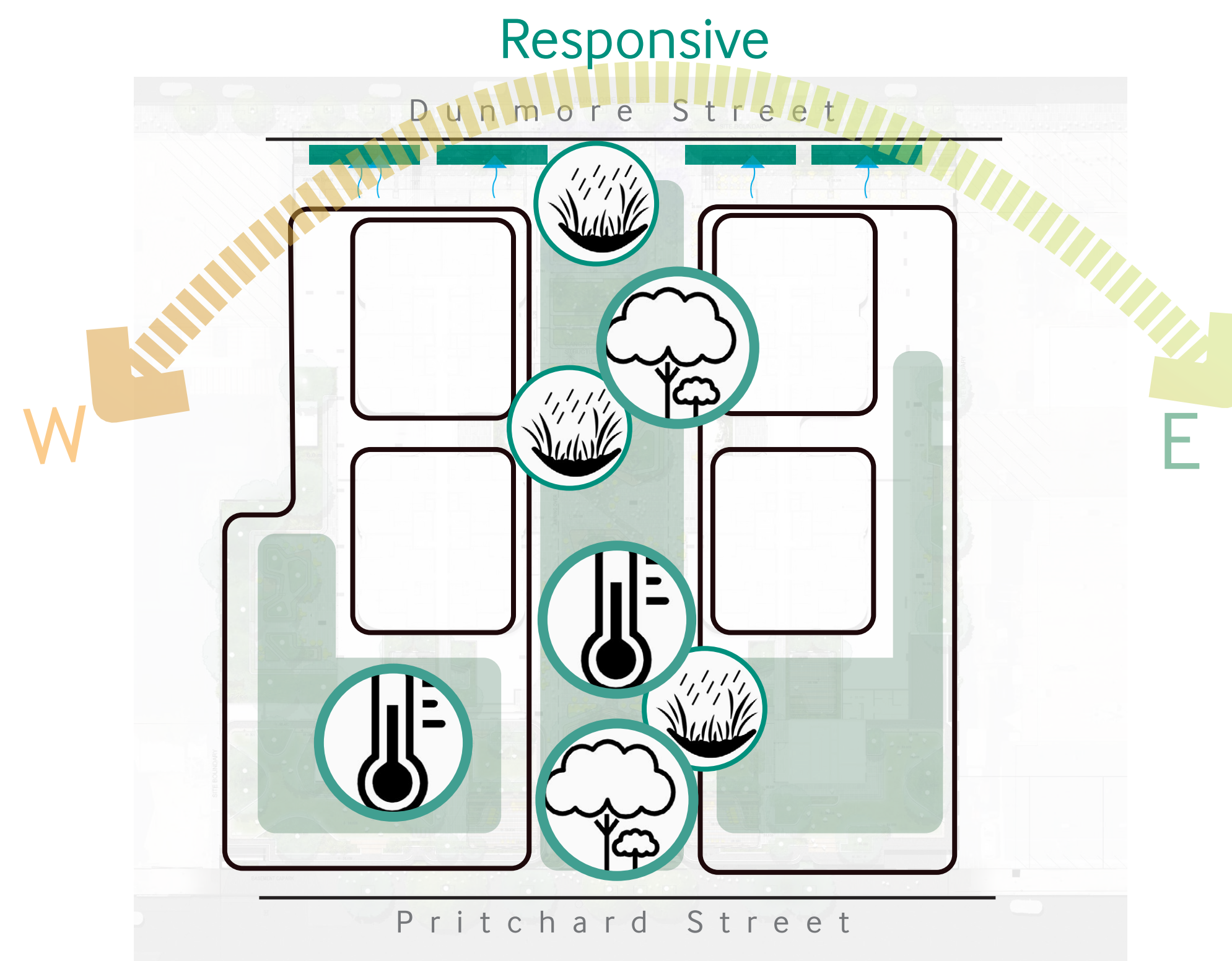
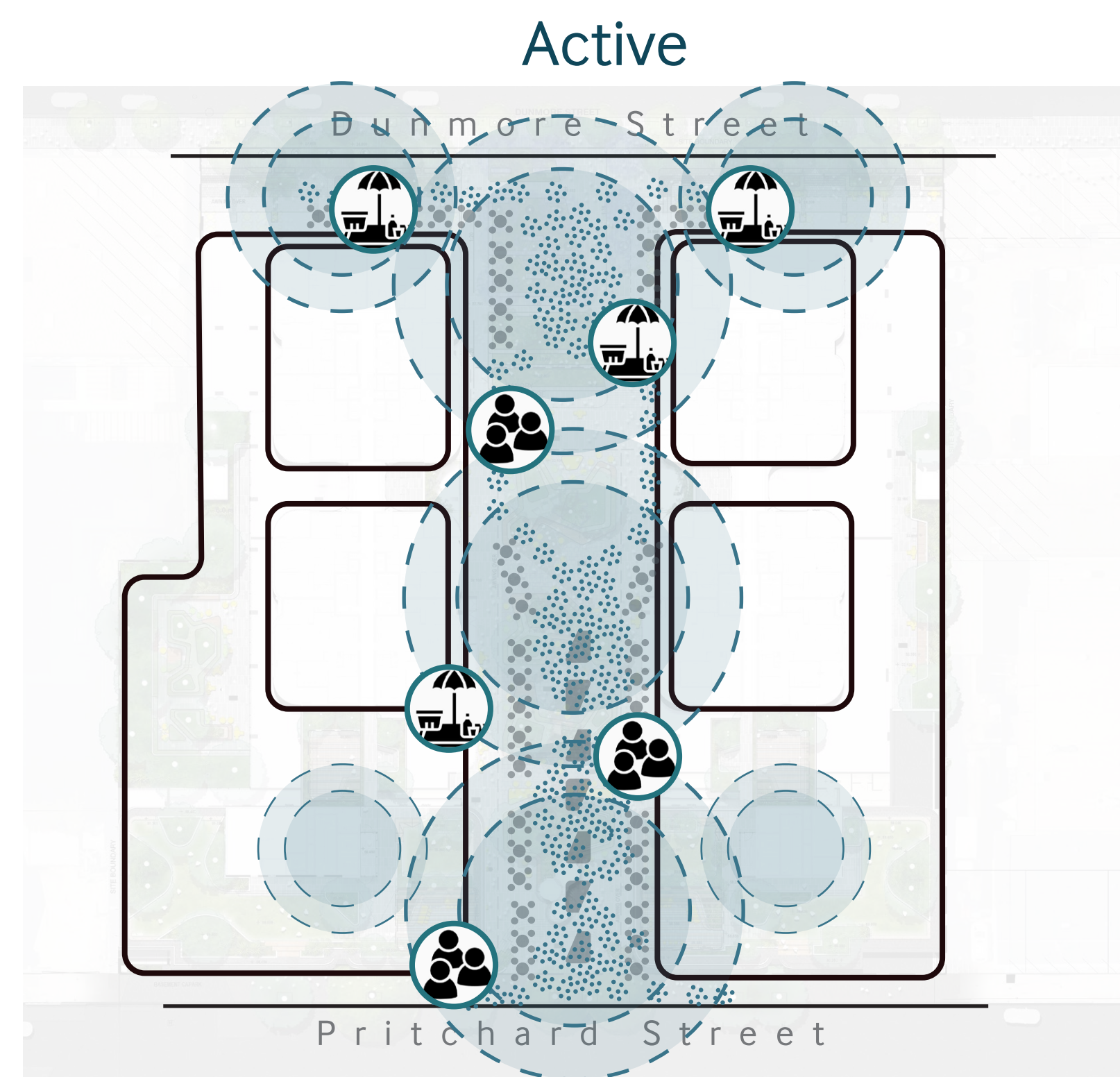


Greener Places



Inviting & Comfortable Spaces





2.3 CHARACTER



INTEGRATED SEATING



LANDSCAPE TERRACES



NIGHT TIME ACTIVATION



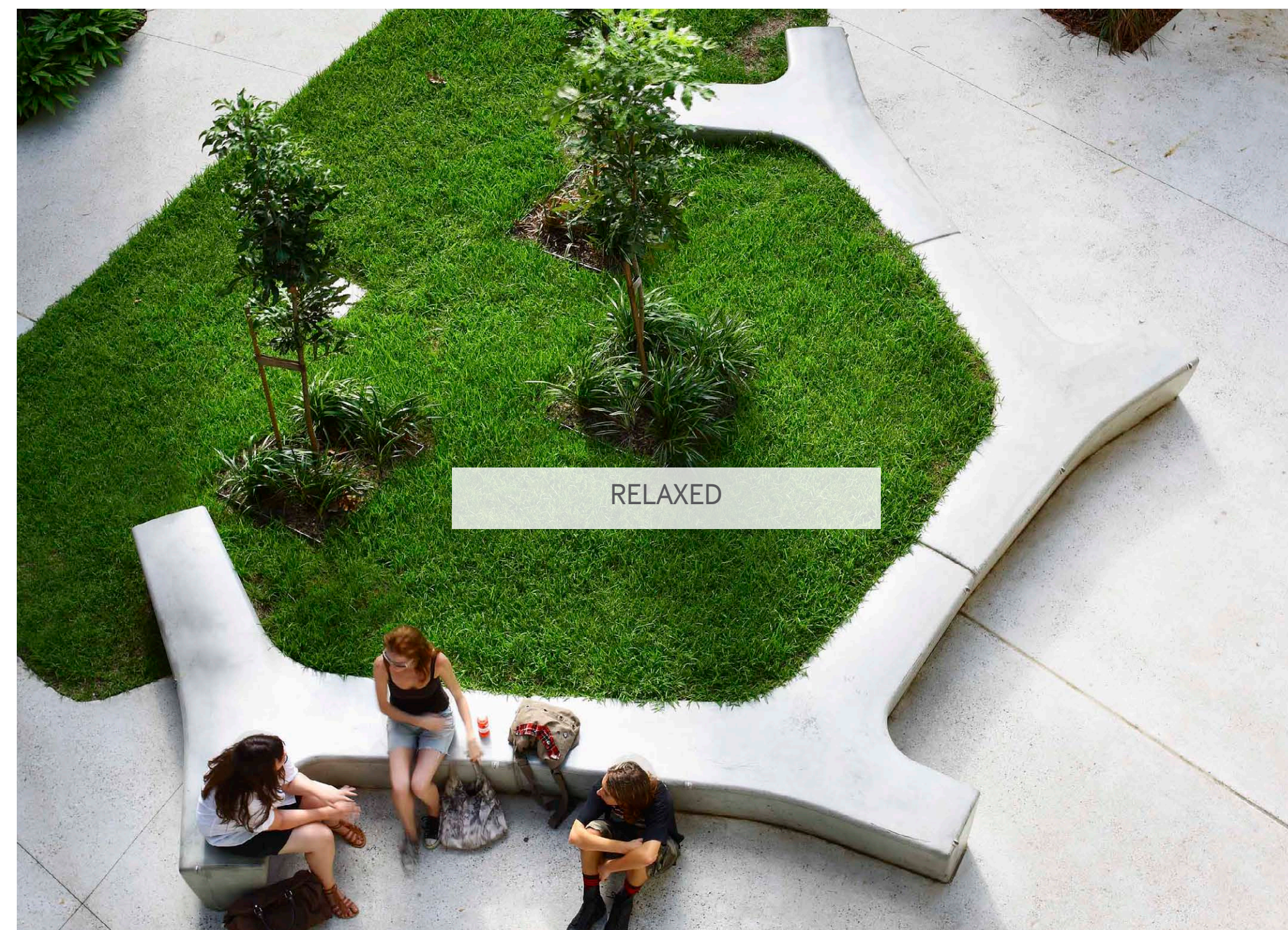
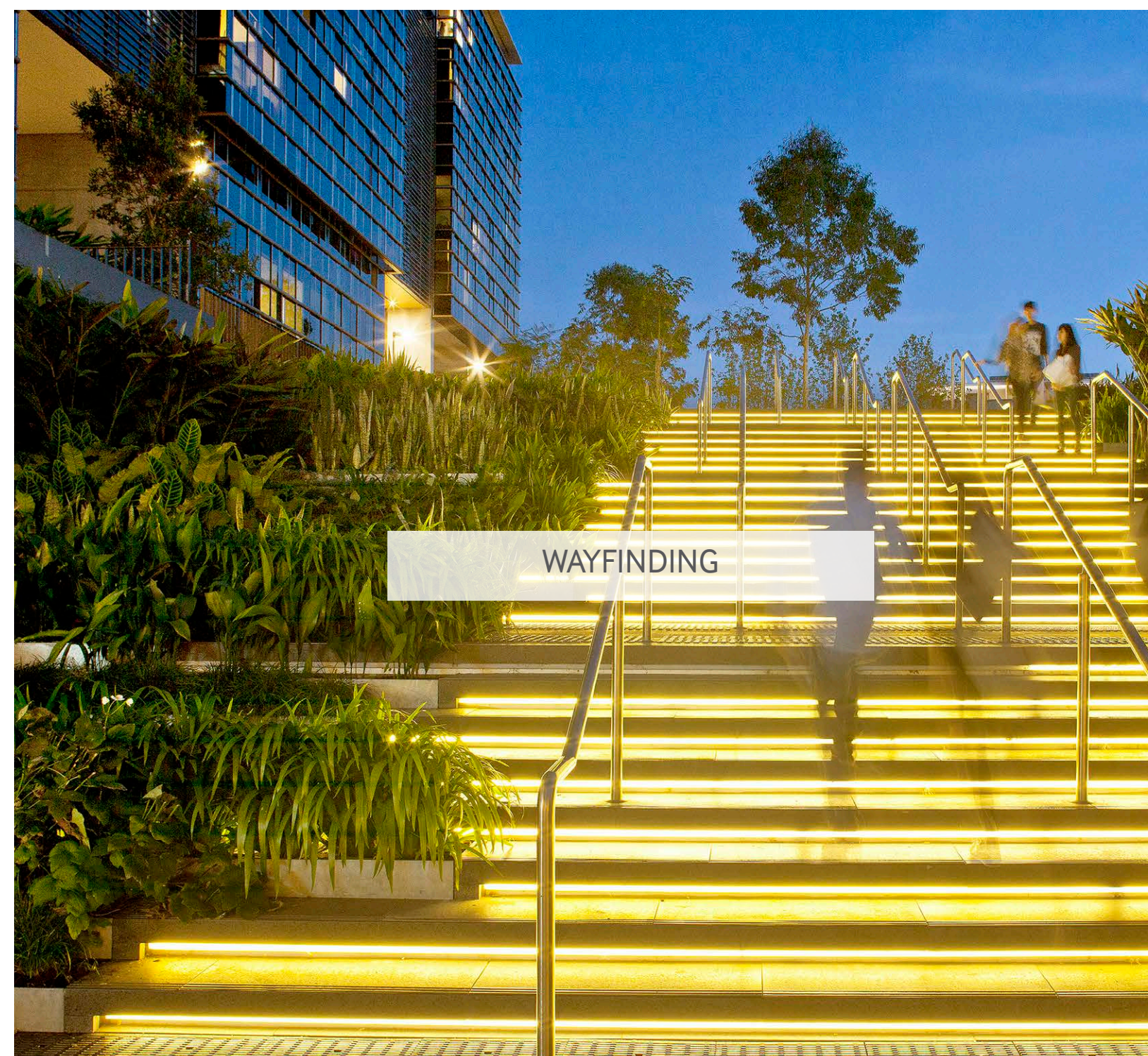
COLOUR PLAY



INVITING



LEAFY WALKWAYS





3.0

LANDSCAPE PLANS

3.1 WENTWORTHVILLE TOWN CENTRE MASTERPLAN

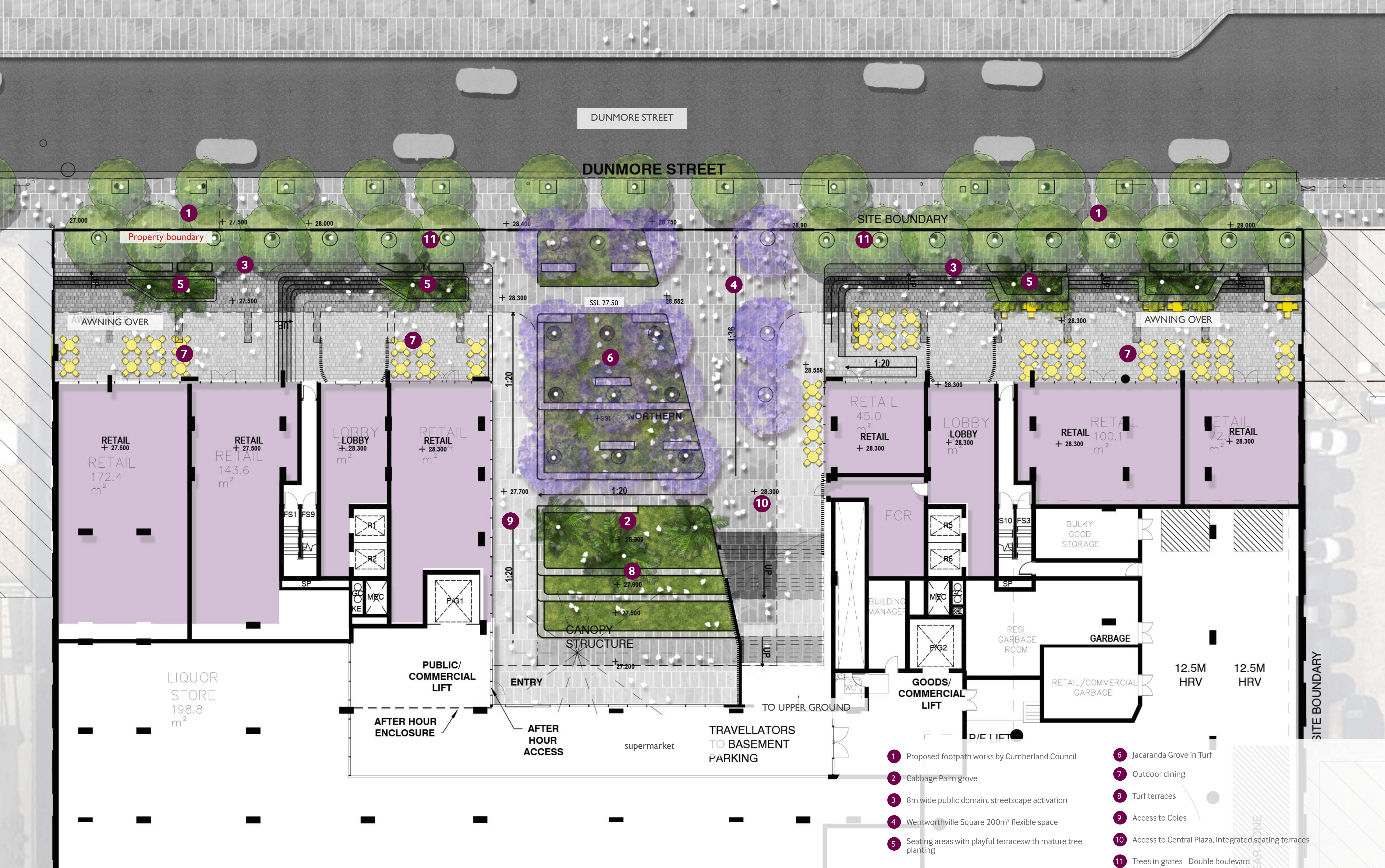


- Legend
- DCP boundary
 - Site boundary
 - Heritage site
 - Public plaza
 - Landscape setbacks
 - Primary active frontages
 - Secondary active frontage
 - New pedestrian crossing
 - New signalised intersection
 - Enhanced public parking
 - New/improved site through links

3.2 SITE PLAN



3.3 GROUND - NORTHERN PLAZA



SCALE 1:125 @A1 / 1:250 @A3

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13 Oct 2020

LANDSCAPE CONCEPT JJ

WENTWORTHVILLE, DUNMORE STREET

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3.4 LEVEL 1 - LINEAR PARK NORTH



LEVEL 1 - LINEAR PARK SOUTH



LINEAR PARK INDICATIVE IMAGERY - LOOKING EAST



LINEAR PARK INDICATIVE IMAGERY - LOOKING NORTH



SHELTERED UNOBSTRUCTED WALKWAY 2.5M MIN

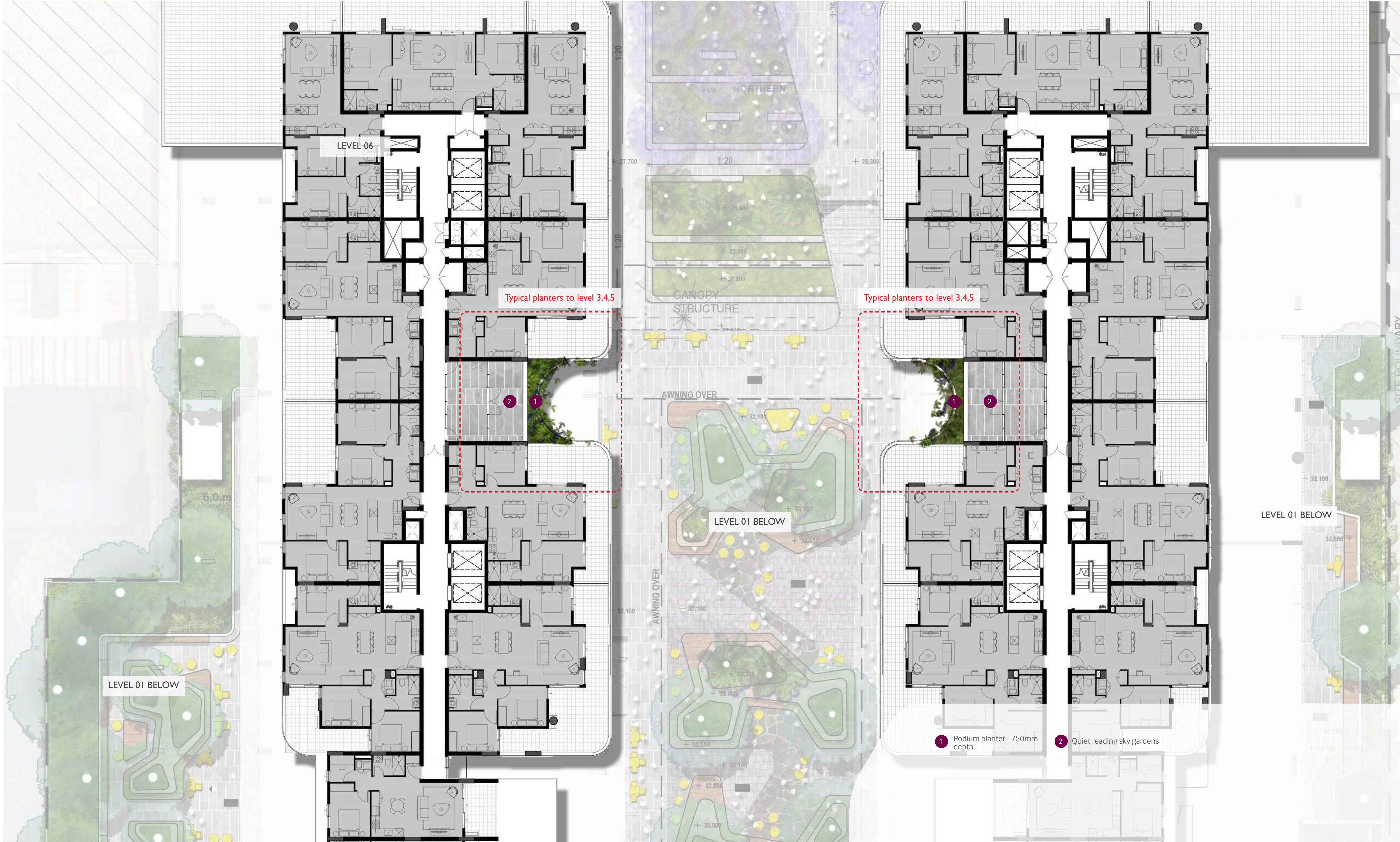
DISCOVERY PLAY TRAIL

PLANTER & INTEGRATED TERRACES

ACCENT COLOURFUL NATIVE PLANTING

CLEAR VIEW LINES

3.5 LEVEL 5



3.6 LEVEL 6

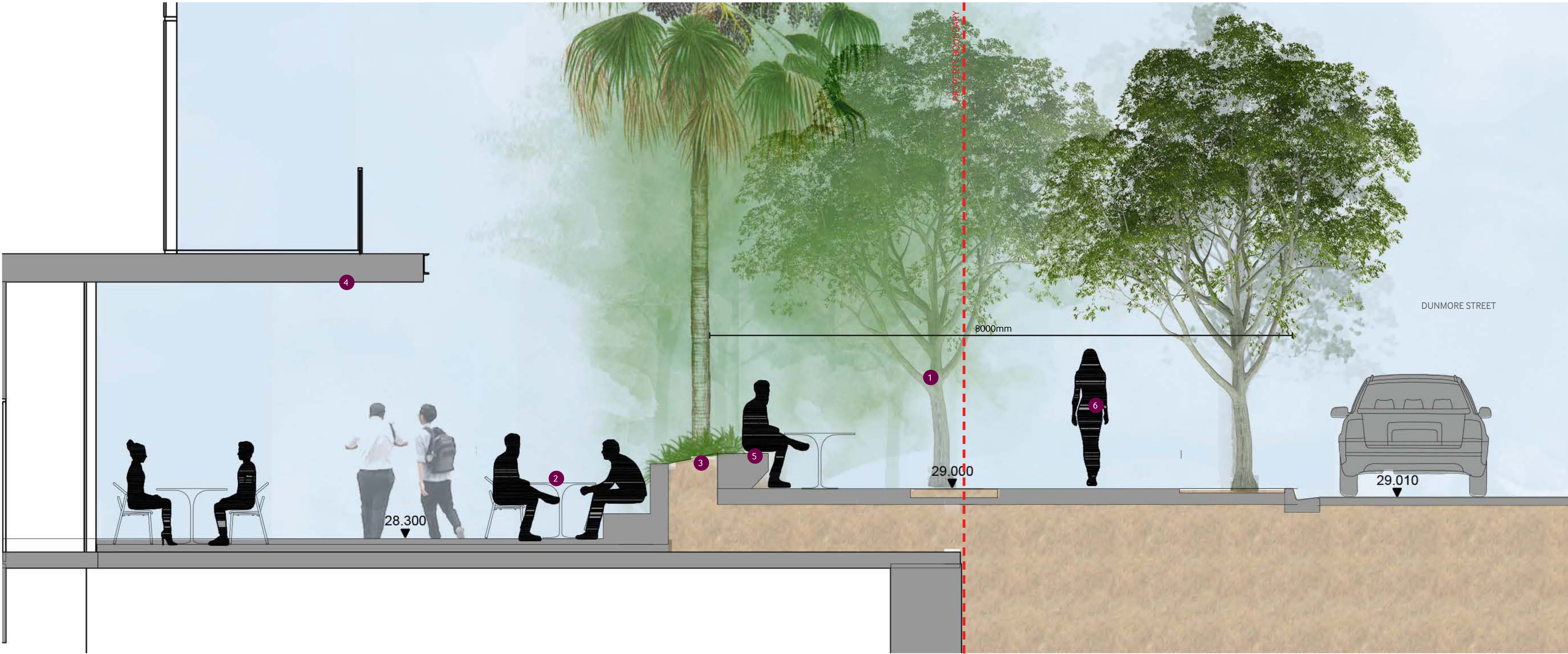


3.7 LEVEL 9 - ROOF GARDENS



- | | | |
|---|--|---|
| 1 Medium shade tree in min 45m3 soil | 5 Quiet reading sky gardens | 9 GRC planter to bridge with integrated trellis 450Wx750H |
| 2 Sun Lawn / Picnic Zone | 6 Small Trees and medium shrubs for screening purposes | |
| 3 Seating zones | 7 Dining zone with shade structure | |
| 4 Outdoor kitchen with BBQ plate and sink | 8 Sandstone seating / viewing edge | |

3.8 SECTIONS - S1 - DUNMORE STREET PLAZA



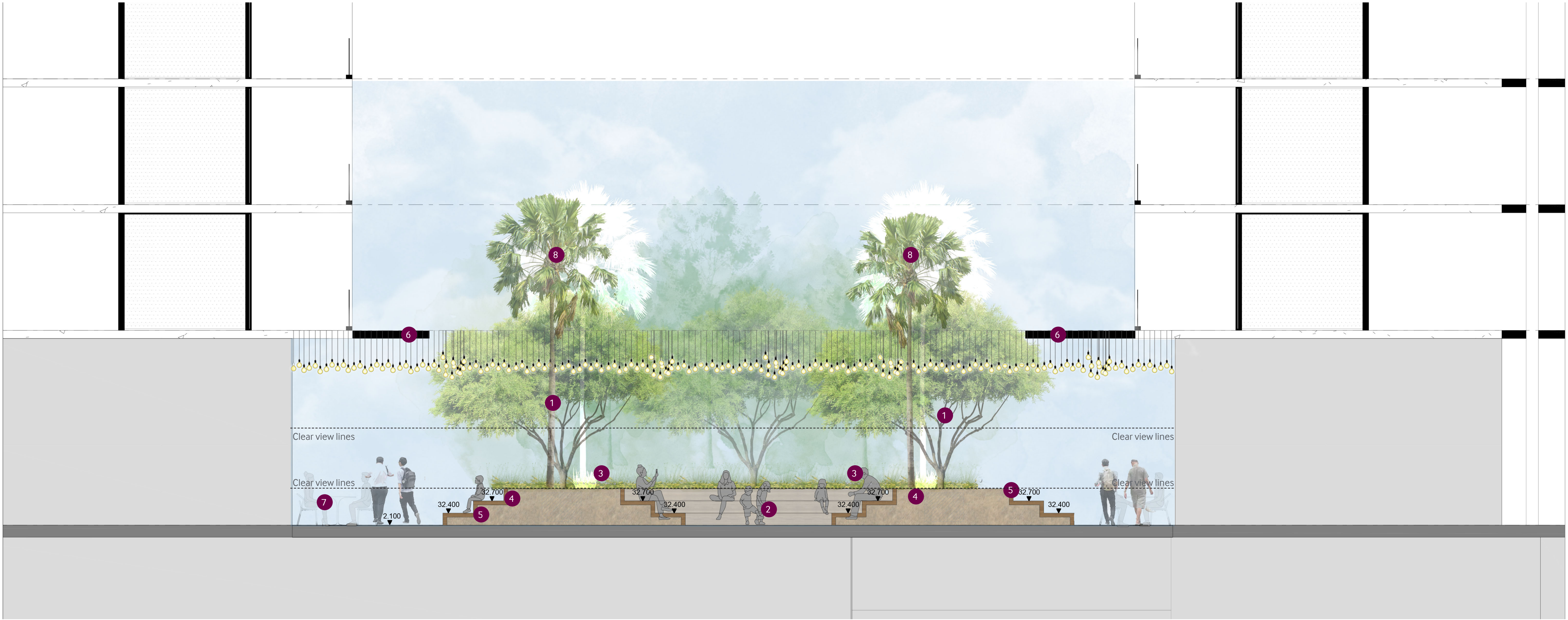
S2 - WENTWORTHVILLE SQUARE SECTION



- 1 Jacaranda Shade Tree (8-12m high)
- 2 Outdoor dining
- 3 Seating plinths
- 4 Pedestrian path
- 5 Dunmore Street
- 6 Walkway to supermarket
- 7 Root cell and soil
- 8 Plaza space



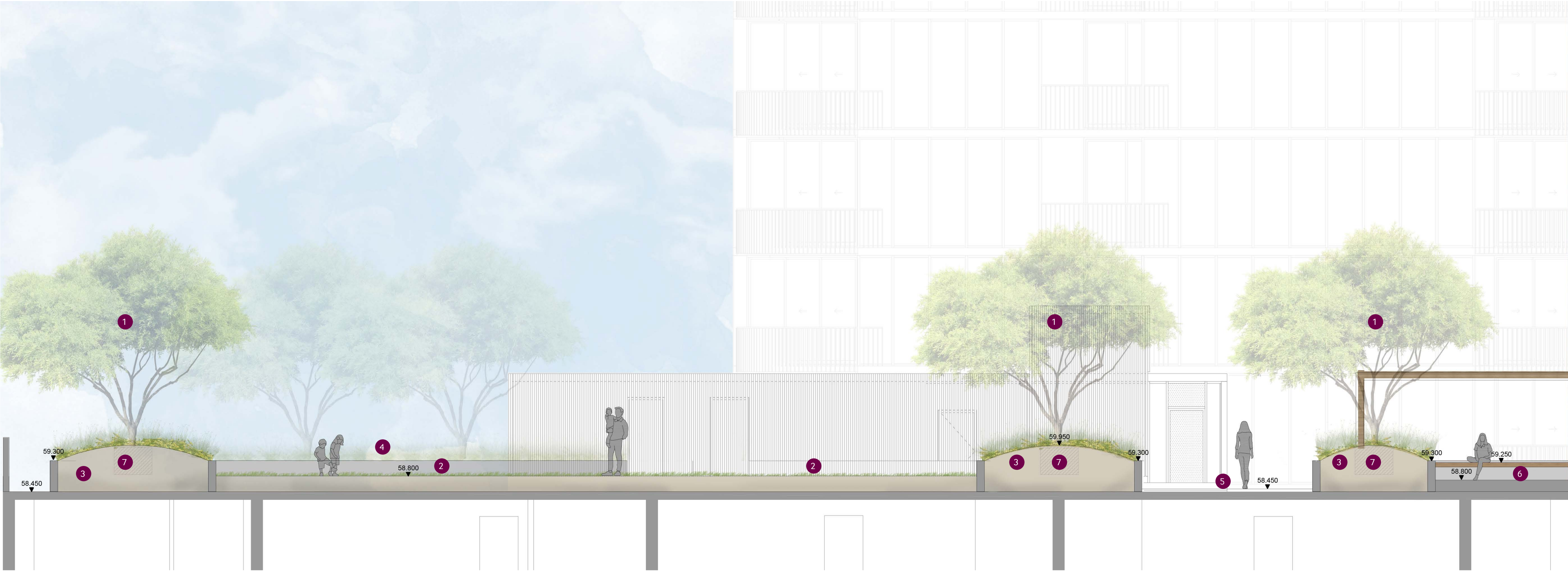
S3 - LINEAR PARK SECTION



- 1 Medium shade tree (8-12m high)
- 2 Central breakout space
- 3 Low level planting
- 4 Podium planter 1000mm soil depth
- 5 Terrace seating
- 6 Awning
- 7 Outdoor seating
- 8 Livistona Australis Palm



S4 - LEVEL 9 ROOF SECTION



- 1 Medium shade tree (8-12m high)
- 2 Lawn
- 3 Podium planter 1200mm soil depth
- 4 Planters behind
- 5 DDA access ramp to upper level
- 6 Outdoor dining space
- 7 Indicative rootball zone



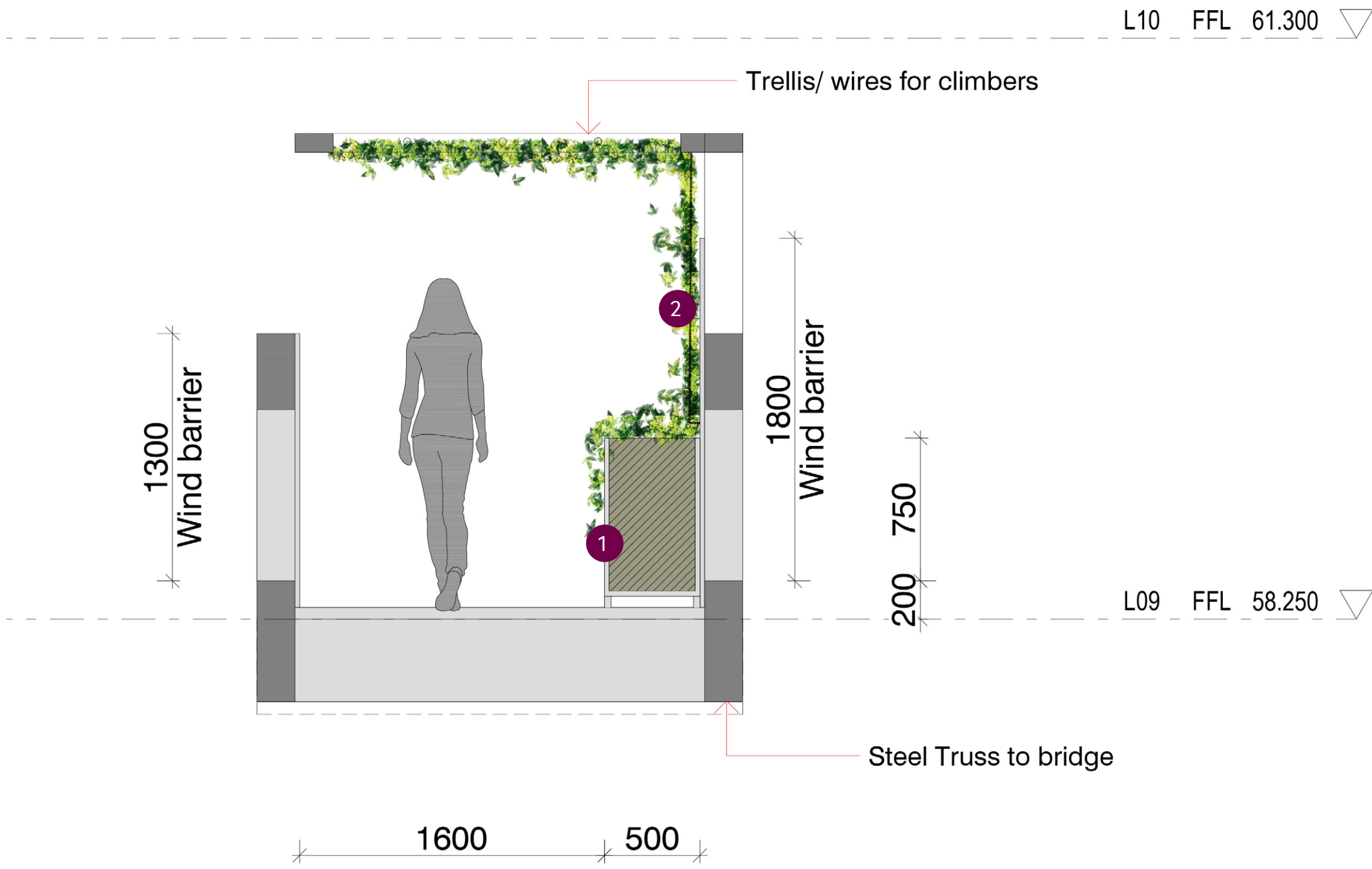
SCALE 1:50 @A1 / 1:100 @A3

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13 Oct 2020

LANDSCAPE CONCEPT [J] WENTWORTHVILLE, DUNMORE STREET

S5- LEVEL 9 BRIDGE



- 1 GRC planter with irrigation drip line and drainage points
- 2 Climber to trellis wire





4.0 COMPLIANCE PLANS

4.1 PUBLIC OPEN SPACE PROGRAMME



Dunmore Street Plaza

- has a minimum width of 20m
- includes the establishment of an easement for public open space at the front of the northern plaza having an area of approximately. 200sqm with a minimum width of 12m.
- is visually and physically integrated with the Dunmore Street Plaza, including consistent paving and street furniture.
- enables a clear line of sight to be gained between Dunmore Street and the supermarket
- facilitates the convenient movement of people between Dunmore Street, the supermarket and the southern part of the site
- maximises the visual exposure of the supermarket façade
- is bordered by active frontages
- provides a connection to the linear park that is visually unobtrusive and complies with relevant legislation/standards
- is publicly accessible at all times. comprises a continuous strip of land having a depth of 8m from the existing footpath
- is a paved, urban plaza that has the flexibility to cater for a range of informal uses, functioning as a promenade and including space for outdoor dining, public seating/gathering and public art
- includes zones for unobstructed through pedestrian movement, outdoor dining and street furniture such as seating, lighting and rubbish bins

Linear Park

- has a minimum width of 20m
- provides for informal gathering and seating
- accommodates uses that are compatible with adjoining residential uses
- includes raised planting beds and tree planting
- Note: as the plaza is located on a podium, deep soil areas are not possible
- manages any gradient change with Pritchard Street with stairs, as well as a visually
- unobtrusive complies with disability legislation
- incorporates stairs and visually unobtrusive disabled access to address any change in gradient.
- is bordered by active uses and / or residential uses that have a high level of engagement with the plaza in accordance with the relevant provisions of this DCP
- is publicly accessible at all times
- is designed in accordance with CPTED principles'
- incorporates lighting that ensures adequate night-time illumination for safety and security without any light spill or glare to adjoining dwellings
- considers the acoustic environment to ensure noise does not create a nuisance for adjoining dwellings

4.2 LIGHTING PLAN

The lighting plan will be design in accordance with the Wentworthville Centre Public Domain Plan. Throughout design development the lighting stratgey will be design ed in collabaoration with lighting specialists and furniture designers

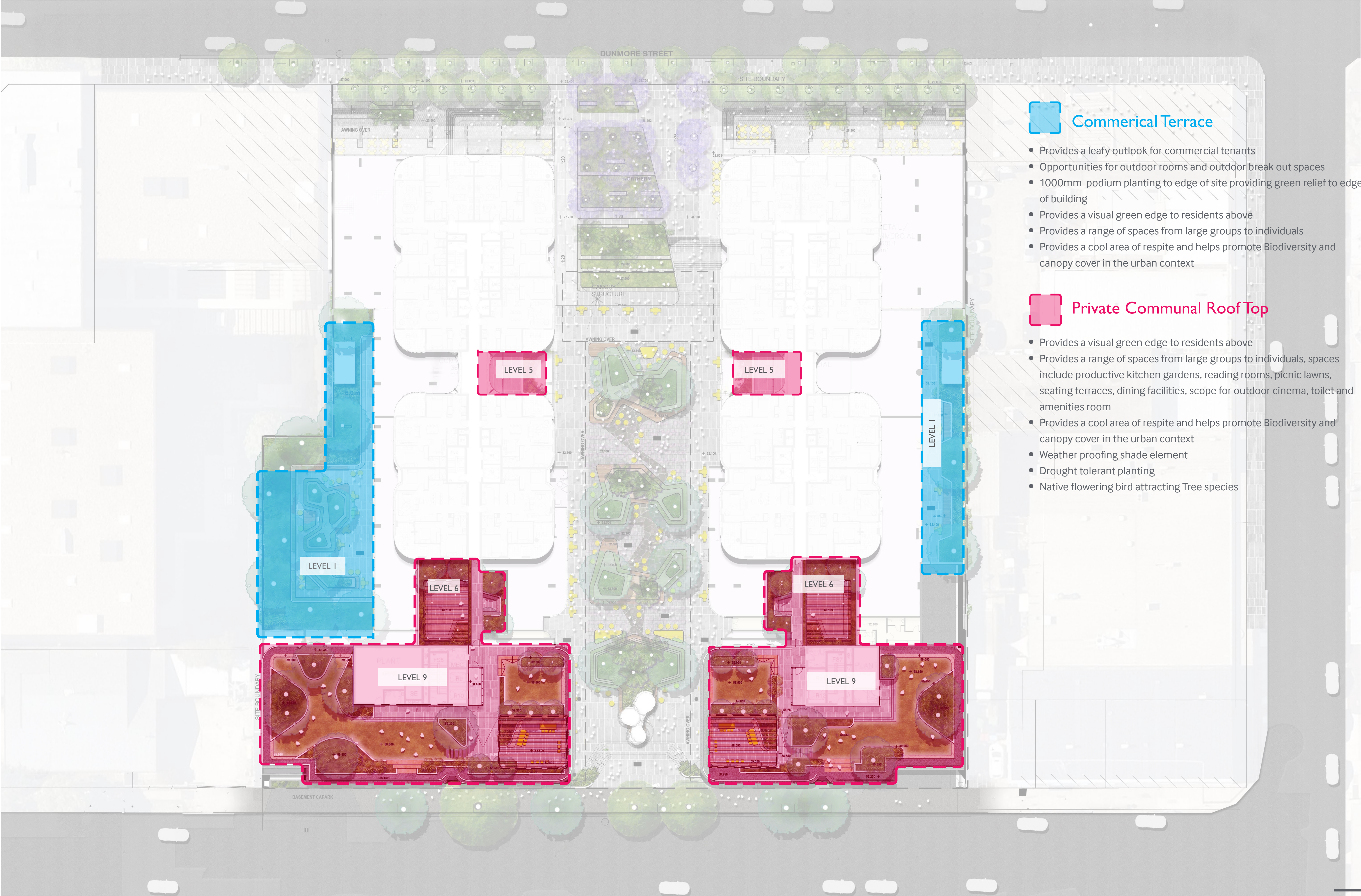
Bollards with integrated lighting
In accordance with Wentworthville town centre public domain plan

Pedestrian lighting
In accordance with Wentworthville town centre public domain plan

LED strip lighting

Catenary lighting
lighting system on high tension cable system - art opportunities

4.3 PRIVATE OPEN SPACE PROGRAMME



Commerical Terrace

- Provides a leafy outlook for commercial tenants
- Opportunities for outdoor rooms and outdoor break out spaces
- 1000mm podium planting to edge of site providing green relief to edge of building
- Provides a visual green edge to residents above
- Provides a range of spaces from large groups to individuals
- Provides a cool area of respite and helps promote Biodiversity and canopy cover in the urban context

Private Communal Roof Top

- Provides a visual green edge to residents above
- Provides a range of spaces from large groups to individuals, spaces include productive kitchen gardens, reading rooms, picnic lawns, seating terraces, dining facilities, scope for outdoor cinema, toilet and amenities room
- Provides a cool area of respite and helps promote Biodiversity and canopy cover in the urban context
- Weather proofing shade element
- Drought tolerant planting
- Native flowering bird attracting Tree species

4.4 SOIL PLAN

Most trees have a root plate rather than a root ball. This means that they prefer to spread their roots across a broad, shallow area of soil rather than growing in a narrow, deep area of soil. The relationship between the width of the root plate and the diameter of the tree trunk needs to be balanced to give the tree stability. The volume of soil required for a tree differs depending on the type of tree, the type of soil and the amount of water (rainfall or irrigation) that the tree receives

Podium Planting (1200mm setback)
Root Cell under Pavement to sustain:

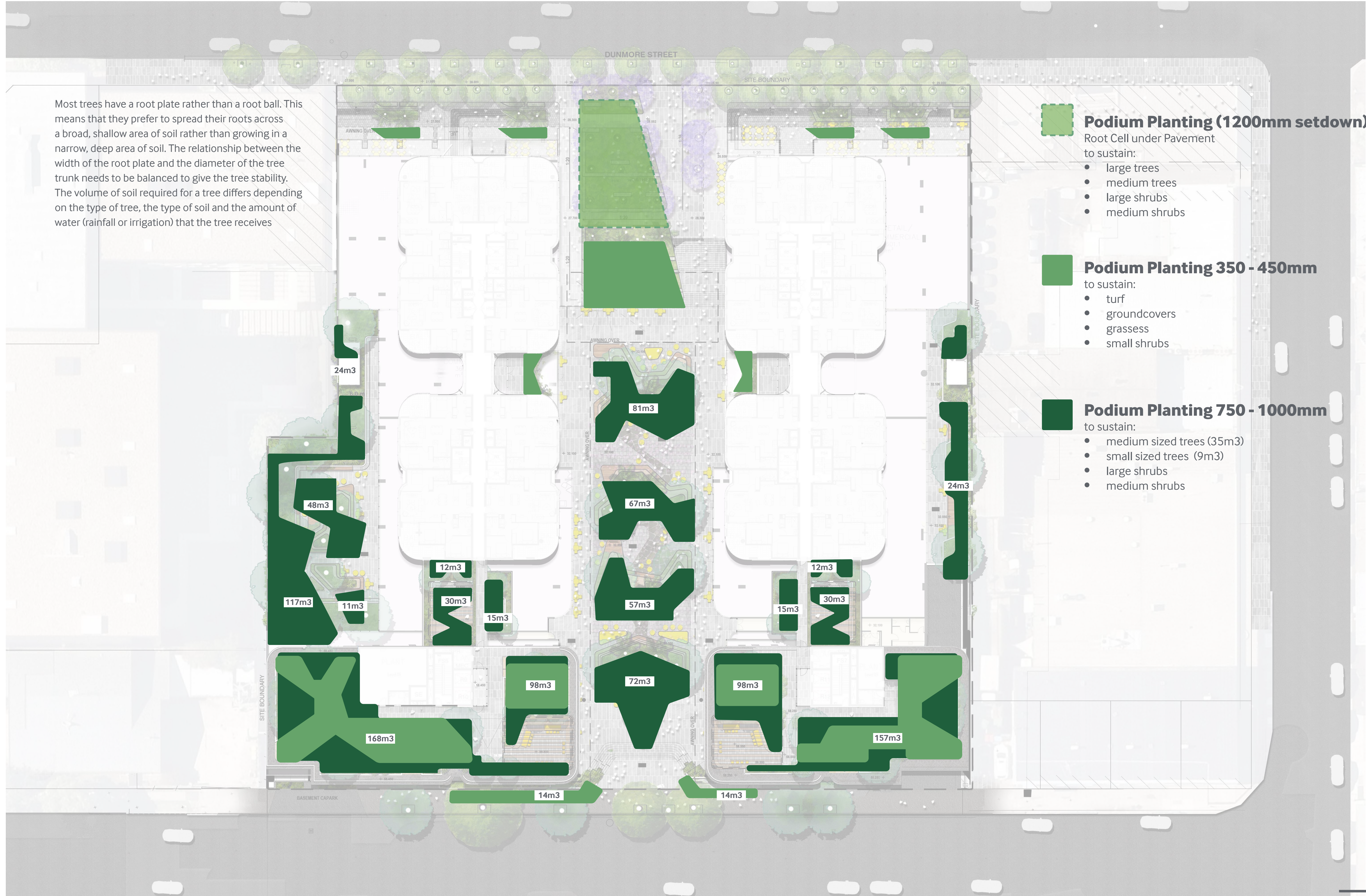
- large trees
- medium trees
- large shrubs
- medium shrubs

Podium Planting 350 - 450mm
to sustain:

- turf
- groundcovers
- grasses
- small shrubs

Podium Planting 750 - 1000mm
to sustain:

- medium sized trees (35m3)
- small sized trees (9m3)
- large shrubs
- medium shrubs



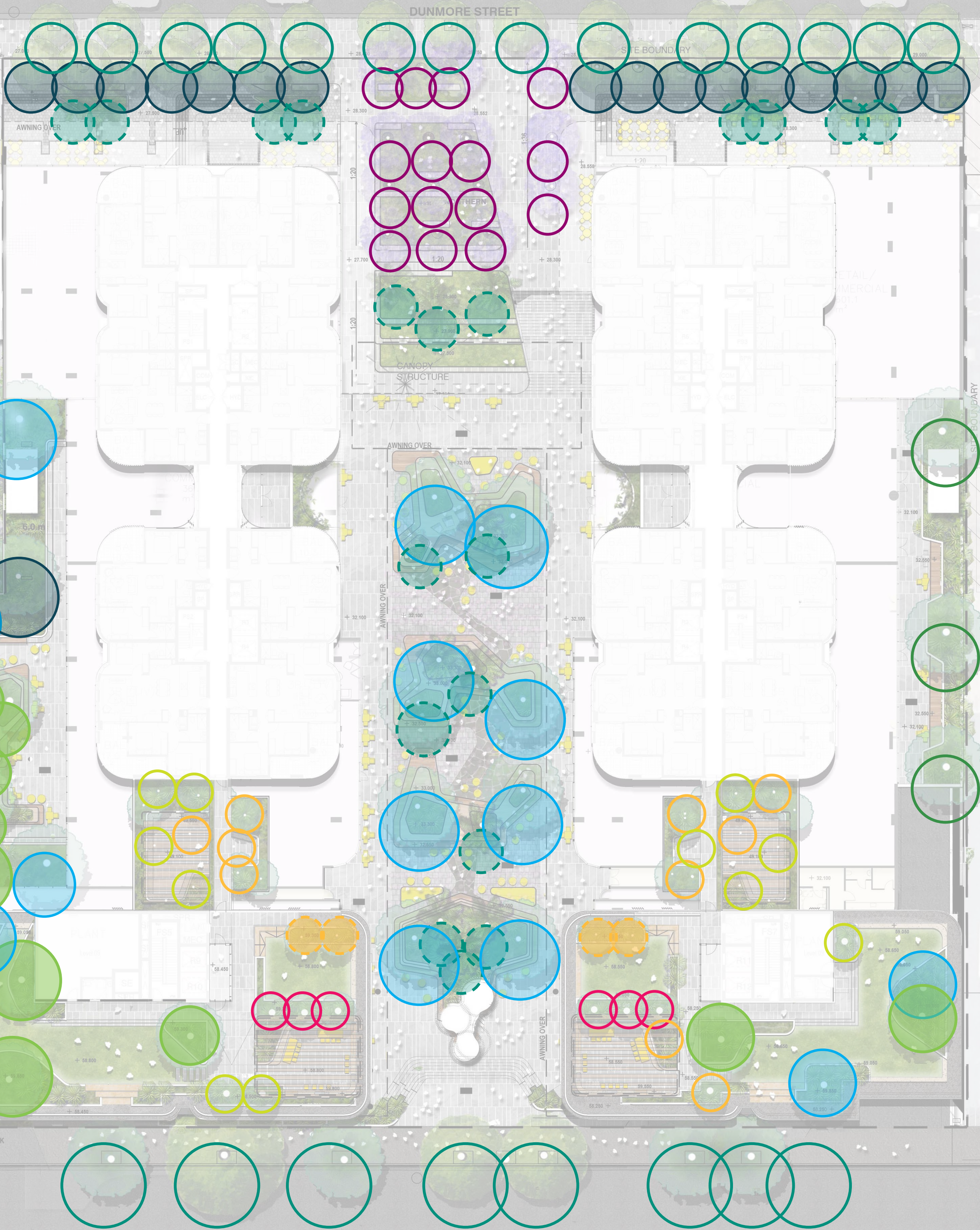
4.5 TREE & CANOPY PLAN

The NSW Government has set a target to increase tree canopy cover across Greater Sydney to 40 per cent.

Trees are valued by residents and contribute to the streetscapes, character and amenity of Wentworthville. As the area continues to grow and change, the urban tree canopy will come under pressure. This means that expanding the urban tree canopy in public places will become more important for supporting for sustainable and liveable neighbourhoods and enhancing Bio-diversity.

The tree canopy may be formed by a mix of native and exotic, deciduous or evergreen trees, which provide shade in summer while allowing sunlight into homes and onto roofs for solar power, particularly in winter.

The proposed linear park will enhance the amenity and activity within, and accessibility to, the Greater Sydney Green Grid will promote a healthier urban environment, improve community access to the Wentworthville Train Station and access to the nearby Finlaysons Creek for recreation and exercise, encourage social interaction, support walking and cycling connections and improve resilience



Botanical Name	Common Name	Mature HeightxSpread
ACACIA parramattensis	Parramatta Wattle	15m x 10m
BACKHOUSIA myrtifolia	Carrol Ironwood	10m x 5m
BANKSIA integrifolia	Honeysuckle Banksia	8mx 3m
CORYMBIA ficifolia	Dwarf grafted gum tree	5m x 6m
ELAEOCARPUS eumundi	Smooth Leafed Quandong	7m x 2m
CUPANIOPSIS anarcardioides	Tuckeroo	6m x 8m
CORYMBIA maculata	Spotted gum	30 x 10m
JACARANDA mimosifolia	Jacaranda	18m x 10m
LIVISTONA australis	Cabbage Tree Palm	20m x 6m
LOPHOSTEMON confertus	Brush Box	15m x 10m
TRISTANIOPSIS laurina 'Luscious'	Water Gum	8m x 4m

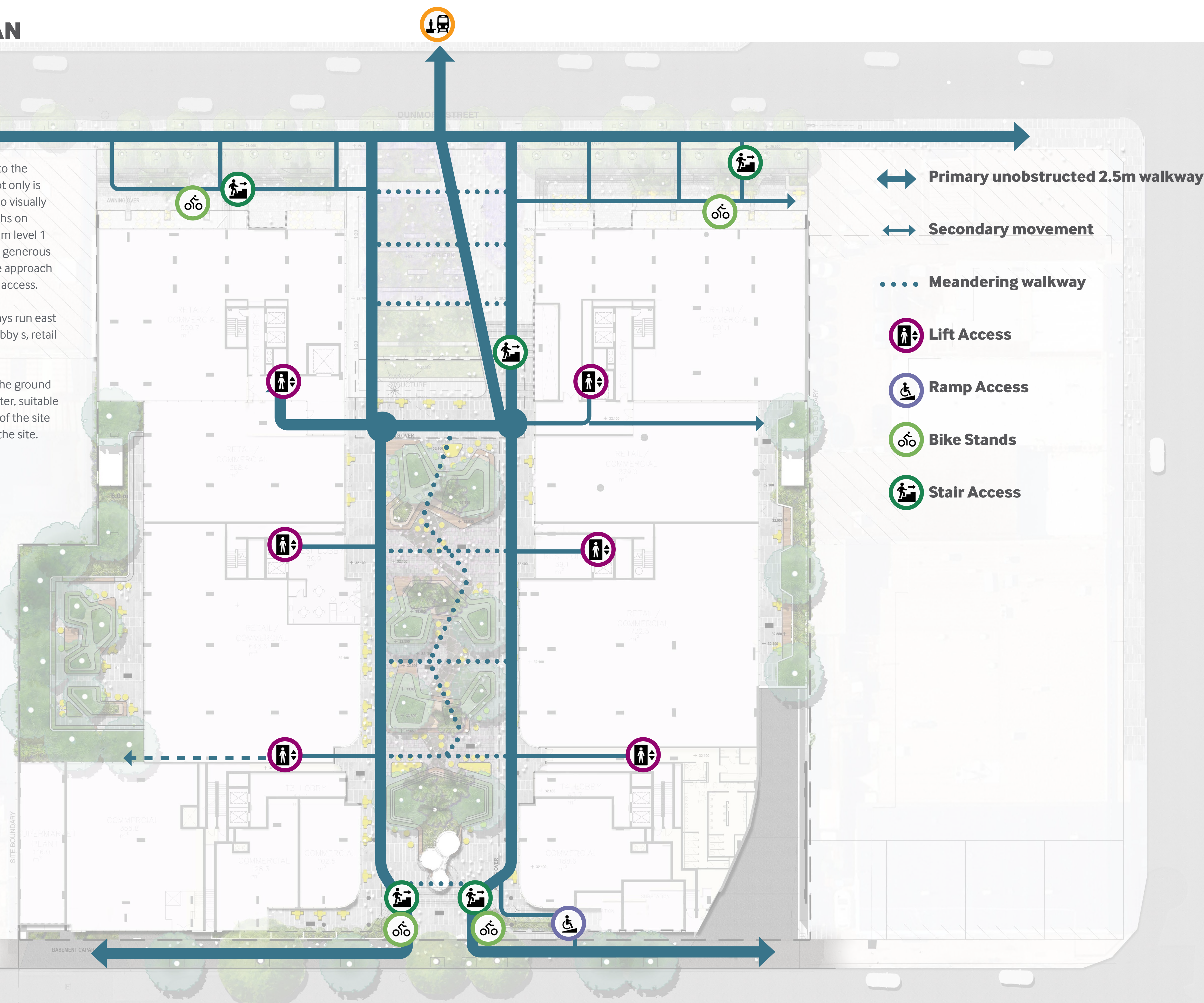
Canopy (measured at mature canopy size)			
	Number	M²	Percentage of Site (9606 sqm)
Large tree (90m2)	22	1980	20.6%
Medium tree (40m2)	40	1600	16.6%
Small tree (10m2)	28	280	2%
Total	90	3860	40.1%

4.6 MOVEMENT PLAN

Permeability from Pritchard Street though to the Train Station is a key driver in the design, not only is the design physically connected but it is also visually connected with clear unobstructed footpaths on either side of the linear park. The access from level 1 to Ground Level can be accessed through a generous staircase or Lift access, this is also the same approach on Pritchard Street with an additional ramp access.

Less prominent but more intriguing pathways run east west across the site connecting adjacent lobby s, retail and commercial areas.

Cyclist will be able to move freely through the ground level due to its vehicle free and slow character, suitable bike stands will be positioned at either end of the site allowing commuters and visitors to access the site.



4.7 SUSTAINABILITY INITIATIVES



Landscape Initiatives

- Achieve 40% canopy cover to meet Greater Sydney Targets and help reduce the warmer Western Sydney temperatures
- Use of 70% of local native species to attract native bird and insect life
- Use of productive plants on the roof tops around the kitchen gardens
- Use of native drought tolerant plant species
- Providing a leafy linear park that helps connect into the nearby Finlaysons Creek Reserve Corridor
-

Water Initiatives

- Use of WSUD into the Dunmore Streetscape - works to be integrated with Cumberland Council Streetscape, rain gardens in footpaths and public realm
- Capturing of rainwater from the rooftops and stored within a rainwater tank in the basement for landscape irrigation

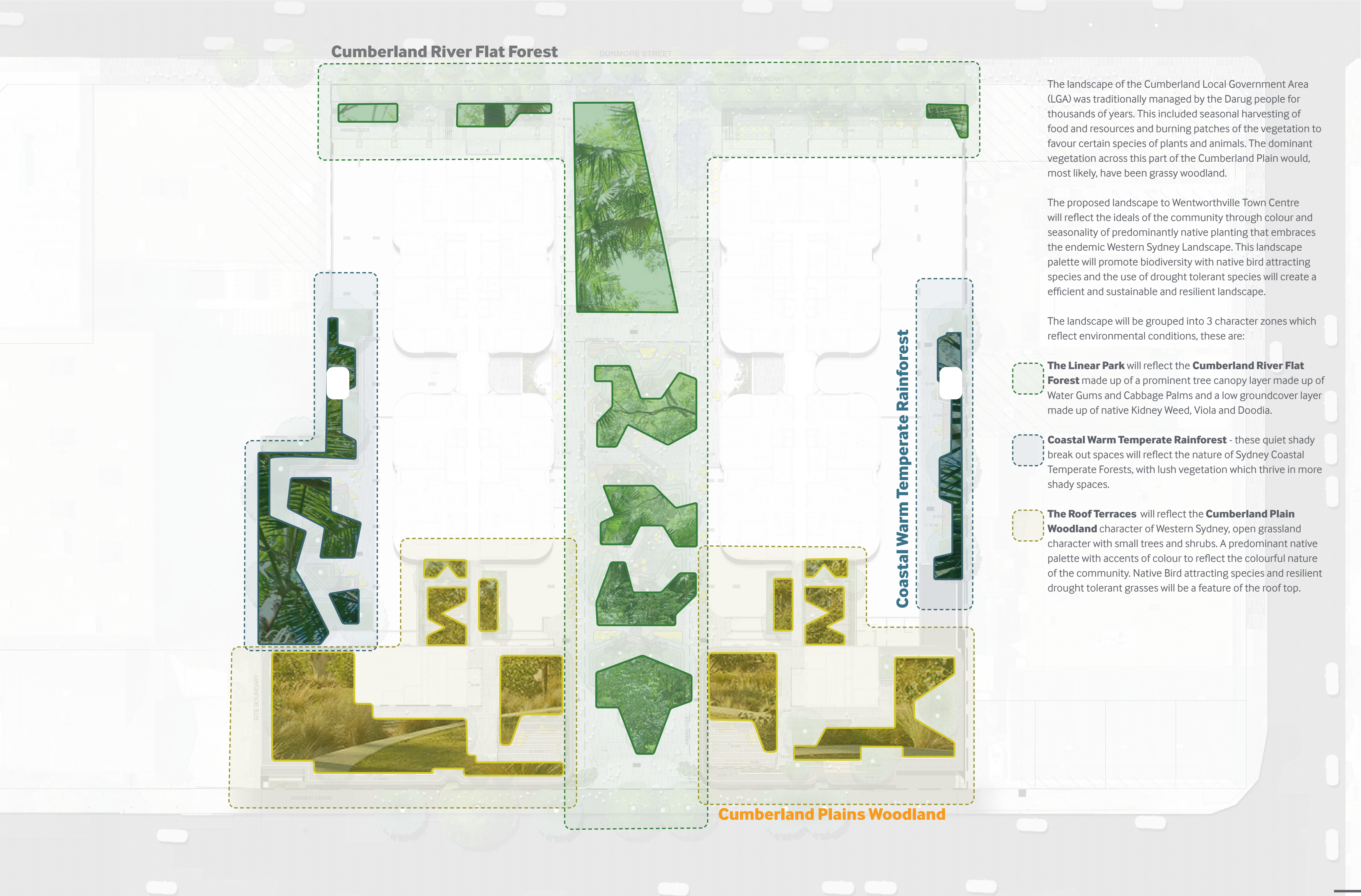
Material Initiatives

- Use of local materials including Sandstone and Native timbers including Spotted Gum.
- Use of solar panel lighting through the public realm and energy efficient lighting



5.0 PLANTING

5.1 PLANTING STRATEGY



The landscape of the Cumberland Local Government Area (LGA) was traditionally managed by the Darug people for thousands of years. This included seasonal harvesting of food and resources and burning patches of the vegetation to favour certain species of plants and animals. The dominant vegetation across this part of the Cumberland Plain would, most likely, have been grassy woodland.

The proposed landscape to Wentworthville Town Centre will reflect the ideals of the community through colour and seasonality of predominantly native planting that embraces the endemic Western Sydney Landscape. This landscape palette will promote biodiversity with native bird attracting species and the use of drought tolerant species will create a efficient and sustainable and resilient landscape.

The landscape will be grouped into 3 character zones which reflect environmental conditions, these are:

- The Linear Park** will reflect the **Cumberland River Flat Forest** made up of a prominent tree canopy layer made up of Water Gums and Cabbage Palms and a low groundcover layer made up of native Kidney Weed, Viola and Doodia.
- Coastal Warm Temperate Rainforest** - these quiet shady break out spaces will reflect the nature of Sydney Coastal Temperate Forests, with lush vegetation which thrive in more shady spaces.
- The Roof Terraces** will reflect the **Cumberland Plain Woodland** character of Western Sydney, open grassland character with small trees and shrubs. A predominant native palette with accents of colour to reflect the colourful nature of the community. Native Bird attracting species and resilient drought tolerant grasses will be a feature of the roof top.

5.2 PLANTING CHARACTER



LN

G

ACACIA cognata 'Limelight' - Cascading acacia



LN

Jul - Sep

T

ACACIA decurrens - Black Wattle



LN

Oct - Dec

T

ANGOPHORA floribunda - Rough-barked Apple



LN

Oct - Dec

T

BLECHNUM gibbum - Silver Lady Fern



LN

Apr - Jun

T

CORYMBIA maculata - Spotted Gum



LN

G

DICHONDRA repens - Kidney Weed



EX

Sep - May

G

GARDENIA 'O SO FINE' - Dwarf Gardenia



LN

Mar - Nov

G

GOODENIA hederacea - Ivy Goodenia



LN

Jun - Nov

G

HARDENBERGIA violaceae 'Mini Ha-Ha' - False Sarsaparilla



EX

Oct - Nov

T

JACARANDA mimosifolia - Jacaranda



LN

G

POA labillardieri - Common Tussock-grass



LN

Sep - Mar

G

VIOLA hederacea - Native Violet

LN

Local Native

AN

Australian Native

EX

Exotic

Jan - Mar

Flowering Season

T

Tree

S

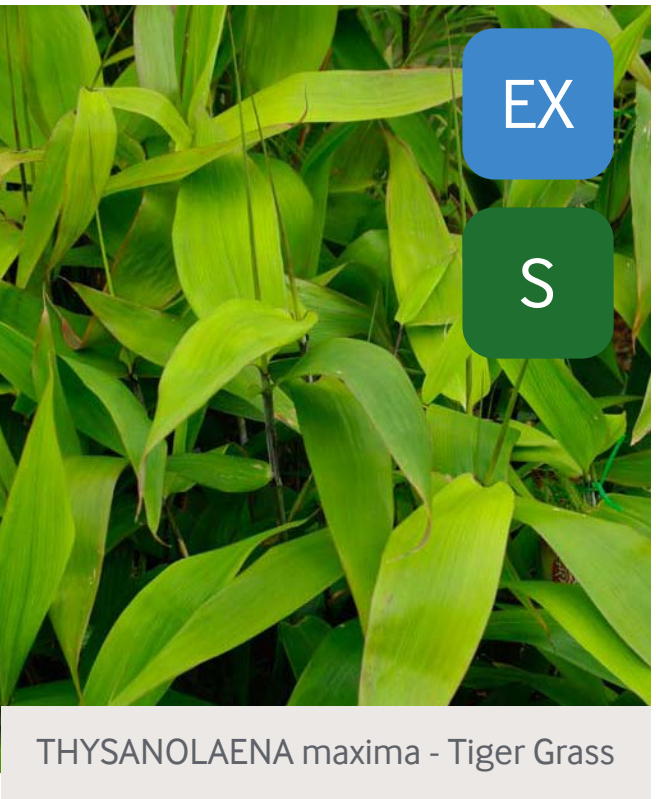
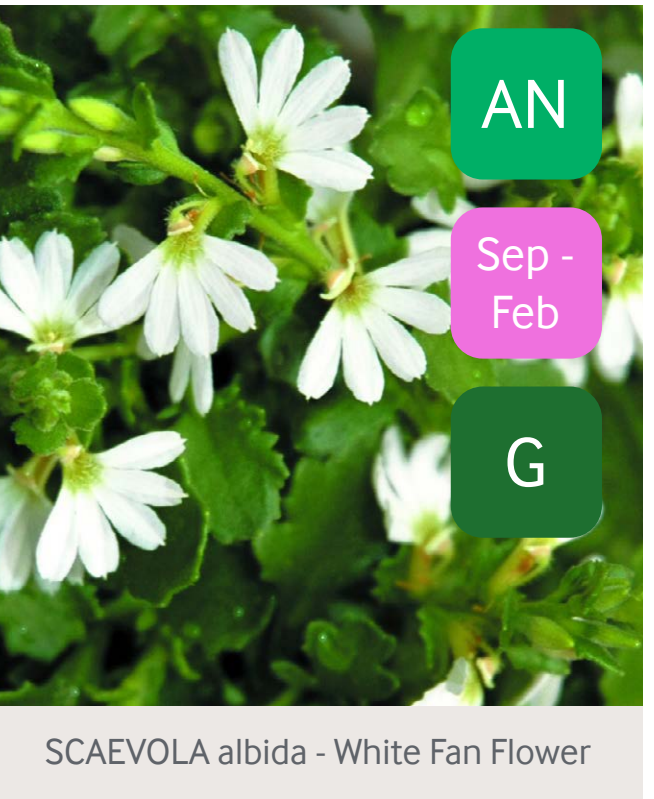
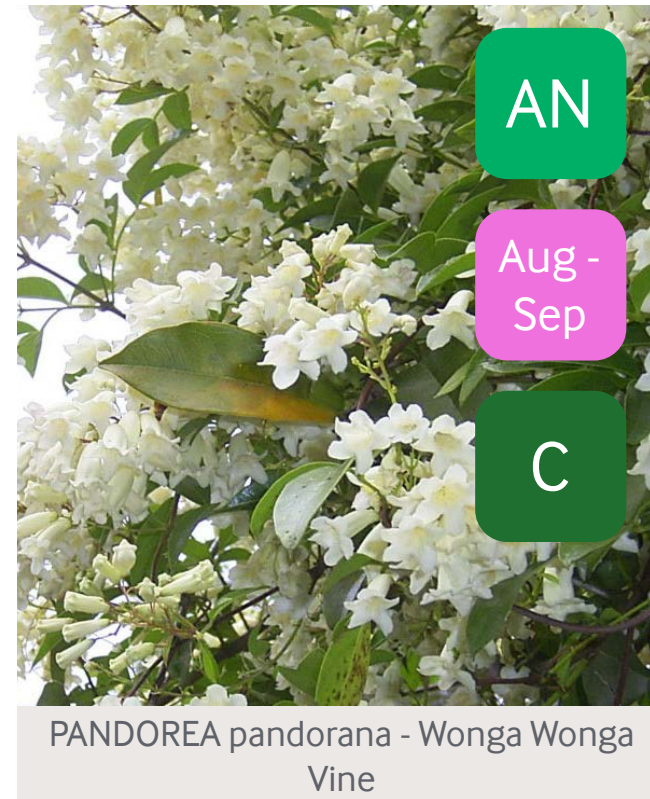
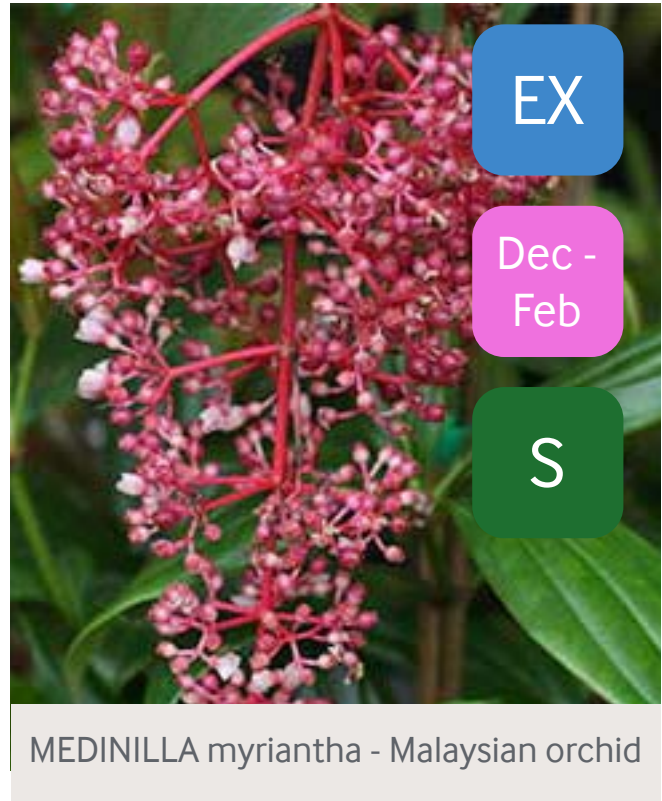
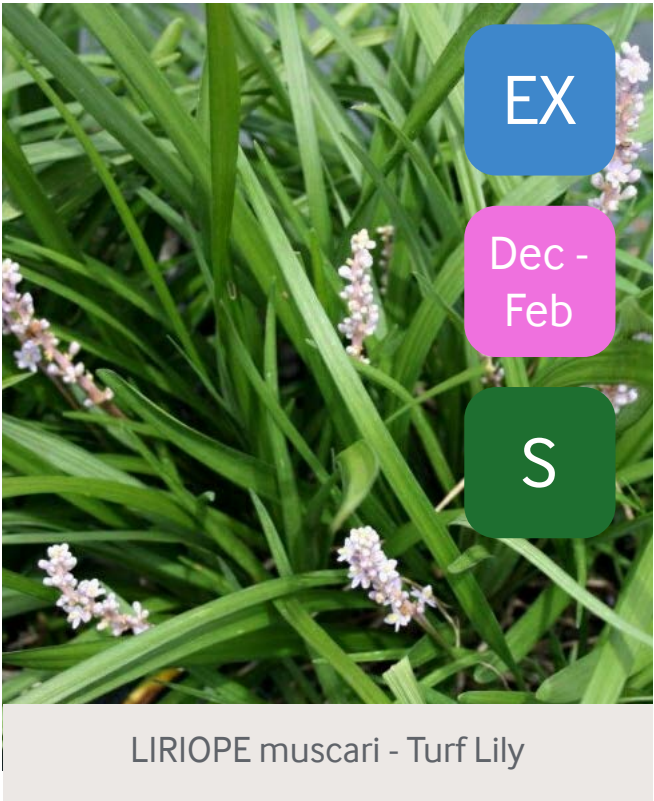
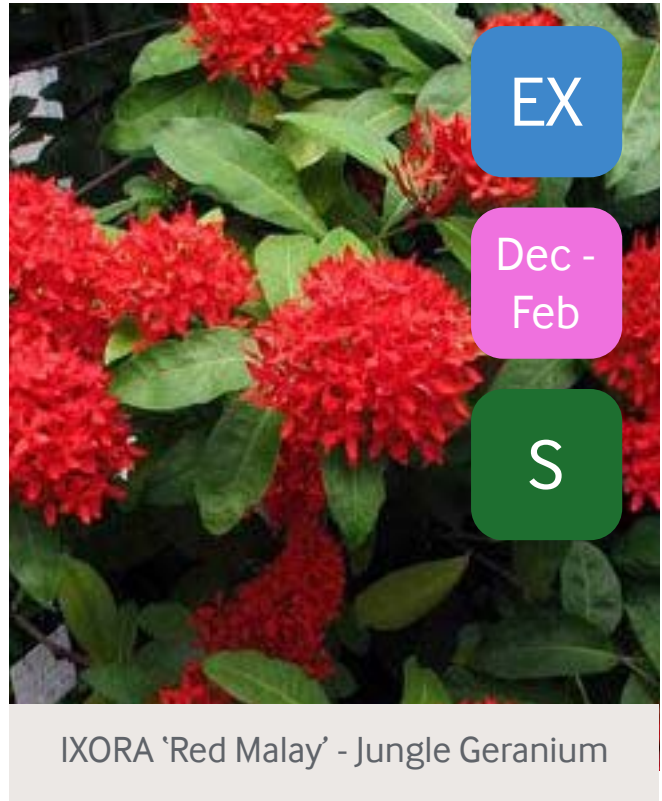
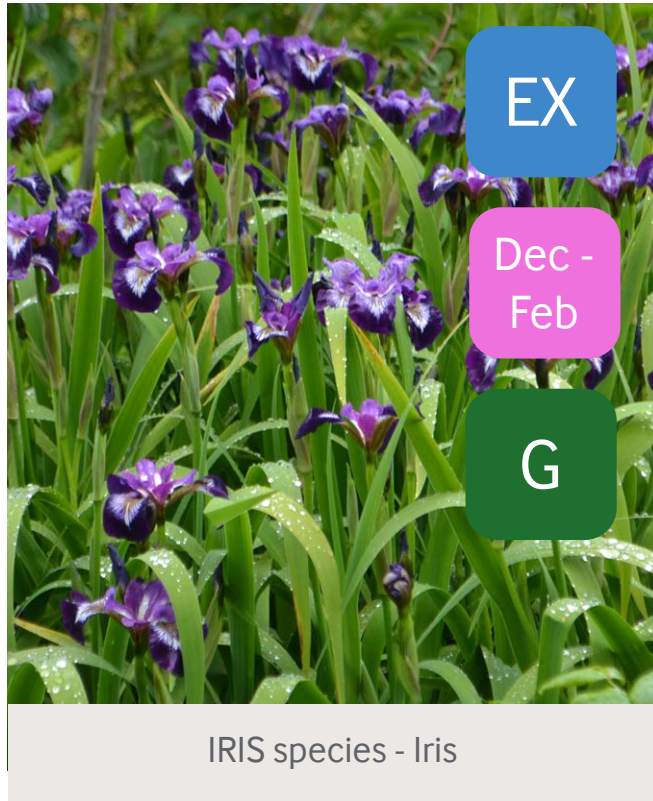
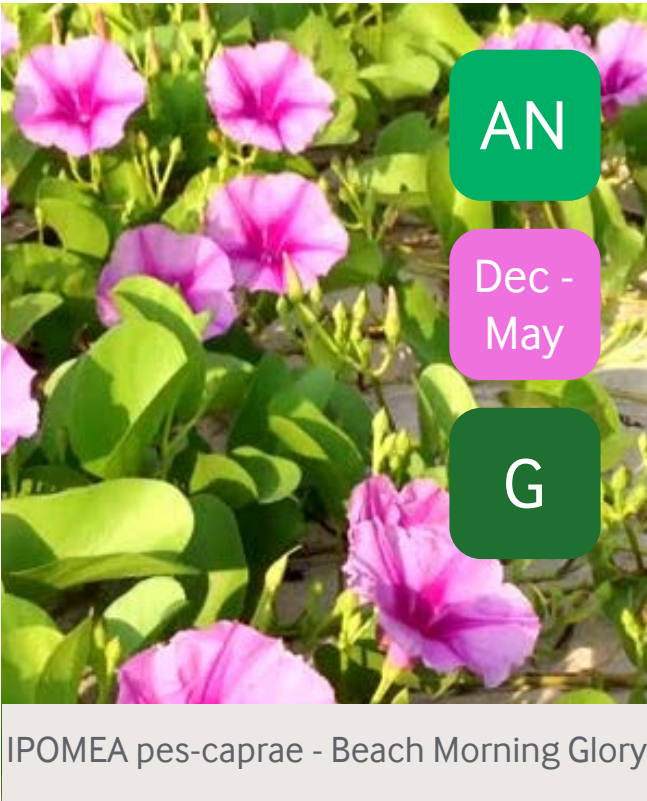
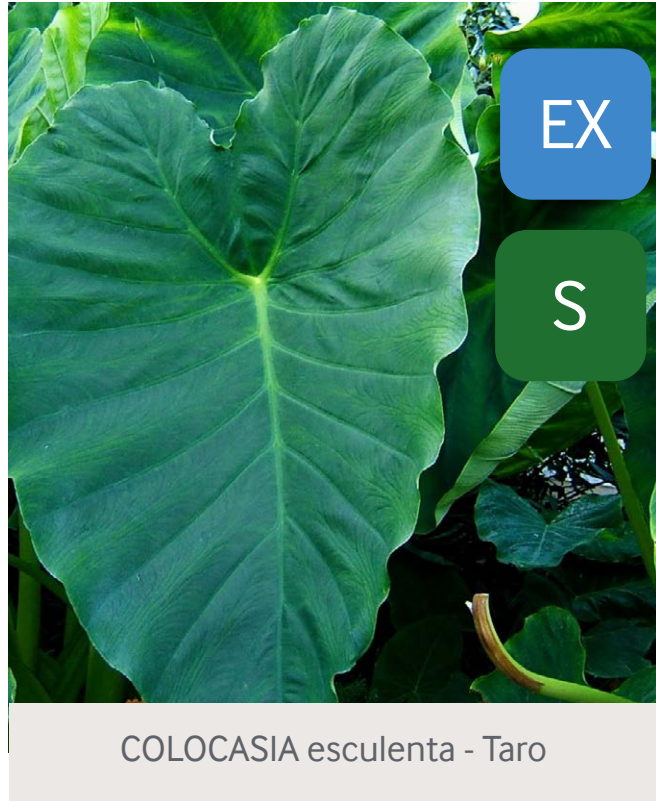
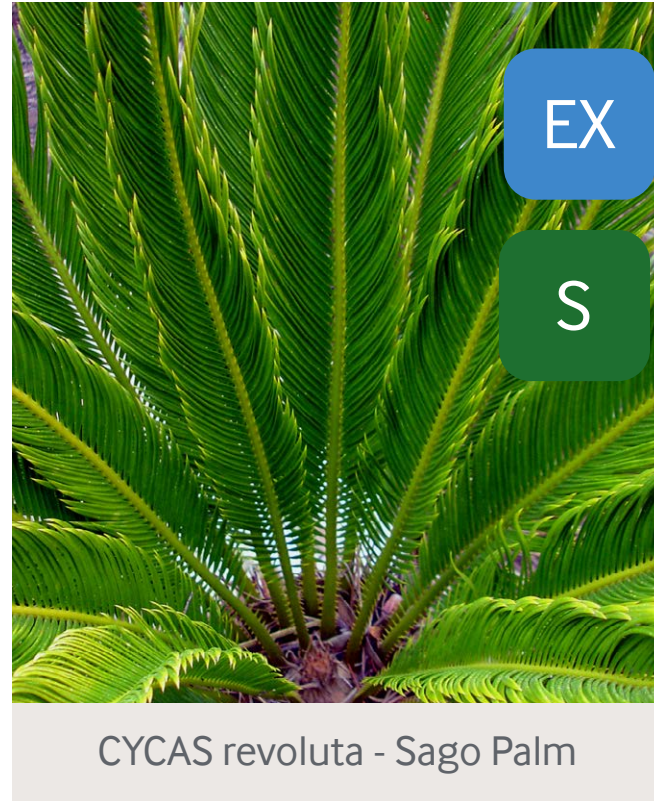
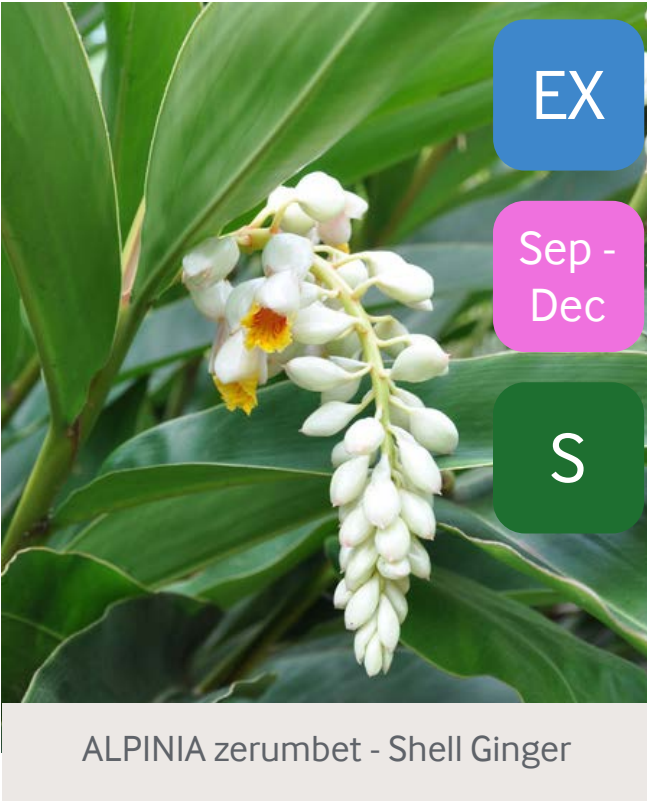
Shrub

G

Groundcover

C

Climber



LN Local Native AN Australian Native EX Exotic Jan - Mar Flowering Season T Tree S Shrub G Groundcover C Climber

5.3 PLANTING SCHEDULE

Code	Botanical Name	Common Name	Native	Location	Minimum Potsize	Minimum Install HeightxSpread	Estimated Mature HeightxSpread	m² Rate
TREES								
ACA par	ACACIA parramattensis	ACACIA parramattensis	Western Sydney Area Native	Public & Private	200L	3.5m x 1m	20m x 15m	N/A
BAC myr	BACKHOUSIA myrtifolia	Honey Suckle Banksia	Western Sydney Area Native	Public & Private	100L	3.5m x 1m	2m x 2m	N/A
BAN int	BANKSIA integrifolia	Honey Suckle	Australian Native	Public & Private	100L	3.5m x 1m	2m x 2m	N/A
COR fic	CORYMBIA ficifolia	Dwarf grafted gum tree	Australian Native	Public and Private	100L	1.5 x 1M	5M X 6M	N/A
CUP ana	CUPANIOPSIS anacardioides	Tuckeroo	Western Sydney Area Native	Public & Private	200L	3.5m x 1m	15m x 5m	N/A
ELA eum	ELAEOCARPUS eumundi	Quandong	Australian Native	Public & Private	200L	3.5m x 1m	9m x 4m	N/A
COR mac	CORYMBIA maculata	Spotted Gum	Australian Native	Public and Private	200 L	3.5m x 1M	30m x 10m	N/A
LIV aus	LIVISTONA australis	Cabbage palm	Australian NAtive	Public & Private	200 L	6m x 3m	15m x 4m	N/A
JAC mim	JACARANDA mimosifolia	Jacaranda	Exotic	Public & Private	400L	4.5m x 3m	10m x 8m	N/A
LOP con	LOPHOSTEMON confertus	Brush Box	Western Sydney Area Native	Public & Private	400L	4.5m x 3m	15m x 10m	N/A
TRI LU	TRISTANIOPSIS laurina ‘Luscious’	Water Gum	Western Sydney Area Native	Public & Private	400L	4.5m x 3m	8m x 4m	N/A
WAT flo	WATERHOUSEA floribunda	Weeping Lilly Pilly	Australian Native	Public & Private	200L	3.5m x 1m	15m x 9m	N/A
SHRUBS								
ACA dec	ACACIA decurrens	Black Wattle	Western Sydney Area Native	Ground + Podium	45L	1.5m x 0.6m	5m x 3m	2/m²
ADI aet	ADIANTUM aethiopicum	Common Maidenhair Fern	Western Sydney Area Native	Ground + Podium	200mm	0.45m high	0.5m x 0.75m	2/m²
ASP aus	ASPLENIUM australasicum	Bird’s Nest Fern	Australian Native	Podium	45L	0.6m high	1.5m x 1.5m	2/m²
BAC myr	BACKHOUSIA myrtifolia	Grey Myrtle	Western Sydney Area Native	Ground + Podium	45L	0.6m high	3m x 4m	1/m²
BLE SL	BLECHNUM gibbum ‘Silver lady’	Silver Lady Fern	Exotic	Podium	45L	0.6m high	1m x 1m	2/m²
COR str	CORDYLINE stricta	Narrow-leaved palm lily	Australian Native	Ground + Podium	45L	1.5m x 0.6m	2m x 1.5m	2/m²
CYC rev	CYCAS revoluta	Sago Palm	Exotic	Podium	45L	1.5m x 0.6m	3.5m x 2m	1/m²
DOO asp	DOODIA aspera	Prickley Rasp Fern	Australian Native	Podium	200mm	0.45m high	0.35m x 0.2m	2/m²
GRE jun	GREVILLEA juniperina	Juniper-leaved Grevillea	Western Sydney Area Native	Ground + Podium	200mm	0.45m high	4m x 6m	1/m²
IND aus	INDIGOFERA australis	Australian Indigo	Australian Native	Ground + Podium	200mm	0.45m high	2m x 2m	1/m²
MAC jon	MACROZAMIA johnsonii	Johnson’s Cycad	Australian Native	Podium	45L	1.5m x 0.6m	3m x 5m	1/m²
PHI xan	PHILODENDRON xanadu	Xanadu	Exotic	Podium	300mm	0.4m high	0.8m x 1m	2/m²
GROUNDCOVERS								
AJU aus	AJUGA australis	Australian Bugle	Australian Native	Ground + Podium	140mm	0.45m high	0.5m x 3m	6/m²
CAR gla	CARPOBROTUS glaucescens	Pig Face	Australian Native	Ground + Podium	140mm	0.2m high	0.2m x 2m	6/m²
CAR inv	CAREX inversa	Knob Sedge	Western Sydney Area Native	Ground	140mm	0.45m high	0.75m x 0.3m	6/m²
DIA lon	DIANELLA longifolia	Pale Flax Lily	Western Sydney Area Native	Ground + Podium	140mm	0.45m high	1.3m x 1m	6/m²
DIC rep	DICHONDRA repens	Kidneyweed	Western Sydney Area Native	Ground + Podium	140mm	0.2m high	0.15m x 2m	6/m²
ELE sph	ELEOCHARIS sphaecelata	Tall Spike Rush	Australian Native	Ground	140mm	0.45m high	2m x 1m	6/m²
MYO par	MYOPORUM parvifolium	Creeping Boobialla	Australian Native	Ground + Podium	140mm	0.2m high	0.3m x 3m	6/m²
POA lab	POA labillardieri	Common Tussock-grass	PWestern Sydney Area Native	Ground + Podium	140mm	0.2m high	1.3m x 0.7m	6/m²
THE aus	THEMEDA australis	Kangaroo Grass	Western Sydney Area Native	Ground + Podium	140mm	0.45m high	1.5m x 1.5m	6/m²
VIO hed	VIOLA hederacea	Native Violet	PWestern Sydney Area Native	Ground + Podium	140mm	0.1m high	0.2m x 1m	6/m²
CASCADING								
CIS ant	CISSUS antarctica	Kangaroo Vine	Australian Native	Podium	200mm	0.9m Length	4m x 6m	600mm centres
HAR vio	HARDENBERGIA violacea	Purple Coral Pea	Western Sydney Area Native	Podium	200mm	0.9m Length	3m x 2m	600mm centres
PAN pan	PANDOREA pandorana	Wonga Wonga Vine	Western Sydney Area Native	Podium	200mm	0.9m Length	20m x 9m	600mm centres
HIB sca	HIBBERTIA scandens	Snake Vine	Western Sydney Area Native	Podium	200mm	0.9m Length	1m x 3m	600mm centres
PAN jas	PANDOREA jasminoides	Bower of Beauty	Australian Native	Podium	200mm	0.9m Length	5m x 5m	600mm centres

5.4 MAINTENANCE STRATEGY



MINIMISING MAINTENANCE NEEDS

The maintenance of the landscape will be important to its success both in the critical establishment phase (the first 12 months) and ongoing for its life span. The reduction and practicality of ongoing maintenance requirements has been intrinsic in the design with key considerations as follows:

- Use of endemic and native species and those known to do well in the local area.
- Selection of species by their size and habit, which do not require frequent pruning to maintain their form as a hedge or to contain then within the desired planting zone.
- Species selected for each area determined based on the micro-climatic conditions, particularly in respect to sun and shade conditions.
- Selection of low water plants to reduce the need for additional watering.
- Roof water to be collected for use in irrigation to reduce the need for the use of potable water for this purpose. Automatic irrigation provided throughout the landscape areas.



MAINTENANCE SCHEDULE

The maintenance of the landscape will be undertaken by the contractor for the first 12 months to ensure successful establishment. Following this the maintenance will be taken over by a maintenance contractor.

The maintenance to be undertaken will be detailed in the landscape specification in the form of a Landscape Maintenance Plan. The Landscape Maintenance Plan will ensure the necessary scope and level of maintenance is achieved to ensure the plants remain healthy and other landscape elements are maintained in a safe, functional and attractive condition and will include the following:



SHRUB PRUNING & TRIMMING

- Tip prune shrubs and ground covers to encourage density in spring and winter. Length removed depending on vigor of previous plant growth.
- Pruning should reflect the natural growth, flowering and regrowth habit of the individual species. Generally prune after flowering. Inspect for failed or dying plants requiring replacement monthly and record probable cause.
- All plants that have died or failed (lost more than 50% of their normal foliage cover) shall be replaced with the same species and commercially available size as the plant to be replaced.
- Generally plant material shall be uniformly high quality stock equal to best available for 'retail sale'. The root systems shall be balanced in relation to the size of the plant.
- Plants shall be healthy well grown, hardened off specimens of good shape and free from pests and diseases and in accordance with 'Specifying Trees: a guide to assessment of tree quality' (Clark 2006). Should the contractor believe that alternative species should be utilised a proposal is to be put to POLY for approval. Inspect climbers, trailing plants monthly, train leaders onto supports as required. Prune long leaders which cannot be reattached to climbing frame or mesh supports in summer.



TREE MAINTENANCE

- Inspect trees monthly during the first 12 months and annually thereafter. Ensure trees are not showing any signs of stress, adjust watering as required to ensure good health and top up mulch to specified depths as required.
- Avoid unnecessary pruning during the first three years. Prune only critical branches and remove damaged or dead wood. Remove branches that limit public access or present a safety risk.
- Lift the crown of the trees to maintain clear site lines where required to a level of 2.5m.
- Structural tree work including the removal of large branches should be undertaken by a qualified arborist with appropriate applications for the works made to Council.



TURF MAINTENANCE

- Mow turf every 2 weeks in summer, 3 weeks in Spring / Autumn and 4 weeks in winter. Mow at heights of between 40 to 60mm & remove no more than 1/3 of the leaf blade at any one time. Do not mow under wet conditions.
- Apply fertiliser at rates as recommended by manufacturer in Spring and Autumn. Apply fertiliser at rates as recommended by manufacturer
- Inspect for compaction and thatching in Spring. Carry out aeration treatment if required using dethatching or verticutting equipment
- Inspect for failed turf requiring replacement and record probable cause in Winter. Remove failed turf, prepare surface & lay new turf in accordance with original turf specified.



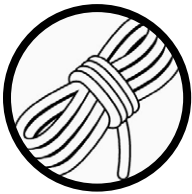
FERTILISING, SOIL IMPROVEMENT & PEST CONTROL

- Soil testing is to be undertaken at the commencement of the maintenance contract and shall include taking samples from a cross section of planting areas. Slow release fertiliser selected to take into account the soil testing results and the insitu plants should be applied annually in spring and in accordance with the manufacturer's recommended rate. Prior approval required for fertiliser use.
- Check for incidence of fungal and insect attack monthly.
- Apply appropriate treatment for fungal and insect attack if necessary subject to approval.
- Avoid use of chemical sprays. If chemical control is considered necessary, these should be mixed and applied in strict accordance with manufacturer's directions. Do not spray in windy or extreme weather. Prior approval required of chemical to be applied.
- Do not remove leaf litter from planted areas unless depth of litter is impacting on plant growth.



MULCHING & WEEDING

- Prevent reproduction of weeds by removal of seedlings and established weeds before seed set. This work should be carried out regularly so that the planted and mulched areas are weed free when observed at monthly intervals.
- Weed garden areas manually or with approved herbicide monthly. Prior approval required for Herbicide use. Approved Herbicide use to be in accordance with regulation rates and manufacturer's recommendation. Protect plants from overspray and avoid if rain is likely within 12 hour period
- Surface mulch is to be replenished as required, at least annually in spring, to maintain a consistent depth as specified at installation. Mulching materials to be consistent with those specified at installation.
- Plant and other litter to be removed from paths and garden areas where required.



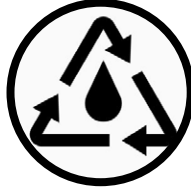
ADJUSTMENT OF TREE STAKES & TIES

- Inspect stakes and ties monthly, replace as required. Check the straps during spring and autumn, ensuring they are loose around the tree to prevent damage to the trunk.
- Remove all stakes and ties at the completion of the 12 month establishment period.



MAINTENANCE OF HARD LANDSCAPE ELEMENTS

- Sweep paved areas, particularly in high use areas monthly. Oil stains in any key areas to be removed using a mild dish washing liquid and warm water solution.
- Inspect paving and walls for areas of moss or mold and remove if found using a mild ammonia solution.
- Weeds are to be removed from all landscape walls, paving and gravel areas monthly.
- Leaf Litter to be removed from all paving areas, paths and gravel areas monthly.
- Drainage pits are to be cleared of mulch and other material regularly so that all pits are cleared when observed at monthly intervals or after significant storm events.
- Inspect seats, benches, tables and other furniture monthly. Undertake any repairs or replacement as required.
- Inspect garden bed edges between soft surfaces annually. Repair any damage or replace as specified.
- Inspect all retaining and planter walls annually. Should any cracking, settling or displacement be observed notify SHMH and determine required rectification actions to be undertaken.
- Inspect all pergolas, mesh screens, climbing structures and shelters annually. Should any rust, damage or structural issues be identified notify Stockland and determine required rectification actions to be undertaken.



IRRIGATION

Automatic irrigation system to be inspected monthly as per manufacturers specifications. The following are to be checked:

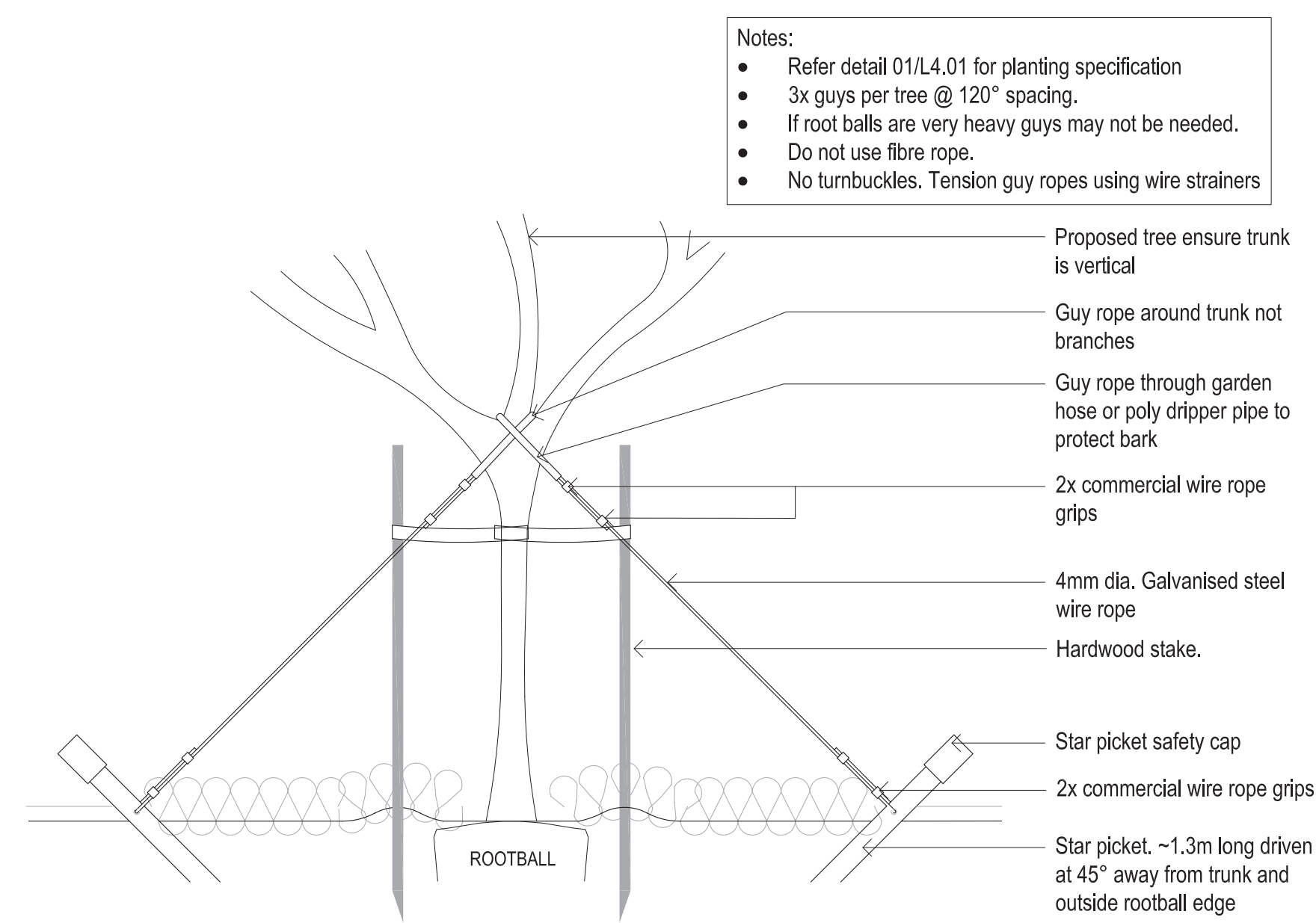
- Controller and soil moisture sensor
- Cabinets clean / clear
- Wiring condition and electrical connections
- Back flow prevention device
- Battery replacement
- Valve covers, valve boxes
- Heads missing, clogged, leaking, broken, tilted or misdirected
- Drip emitters connected to flex line, flex line connected to riser, micro adjustment nozzles connected
- Service filter strainer
- Automatic flush valves
- Operational pressures
- Frequency adjusted to maintain healthy plant growth.

Planting areas not covered by the irrigation system will be covered by the provision of hose cocks at regular intervals which will allow for hose watering as required during establishment and during particularly dry conditions to ensure healthy plant growth.

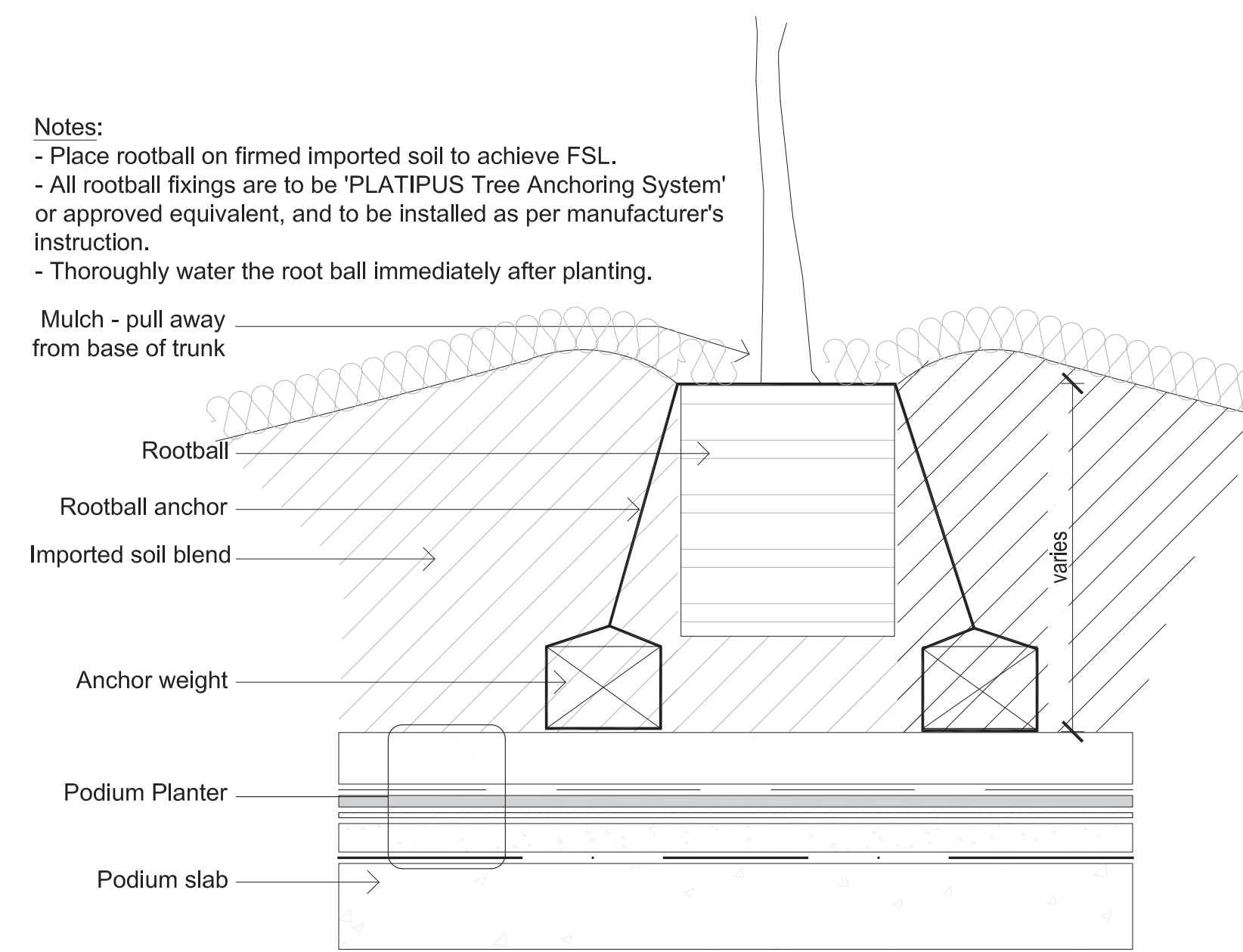
5.5 WIND PROTECTION

LANDSCAPE STRATEGY - WIND PROTECTION

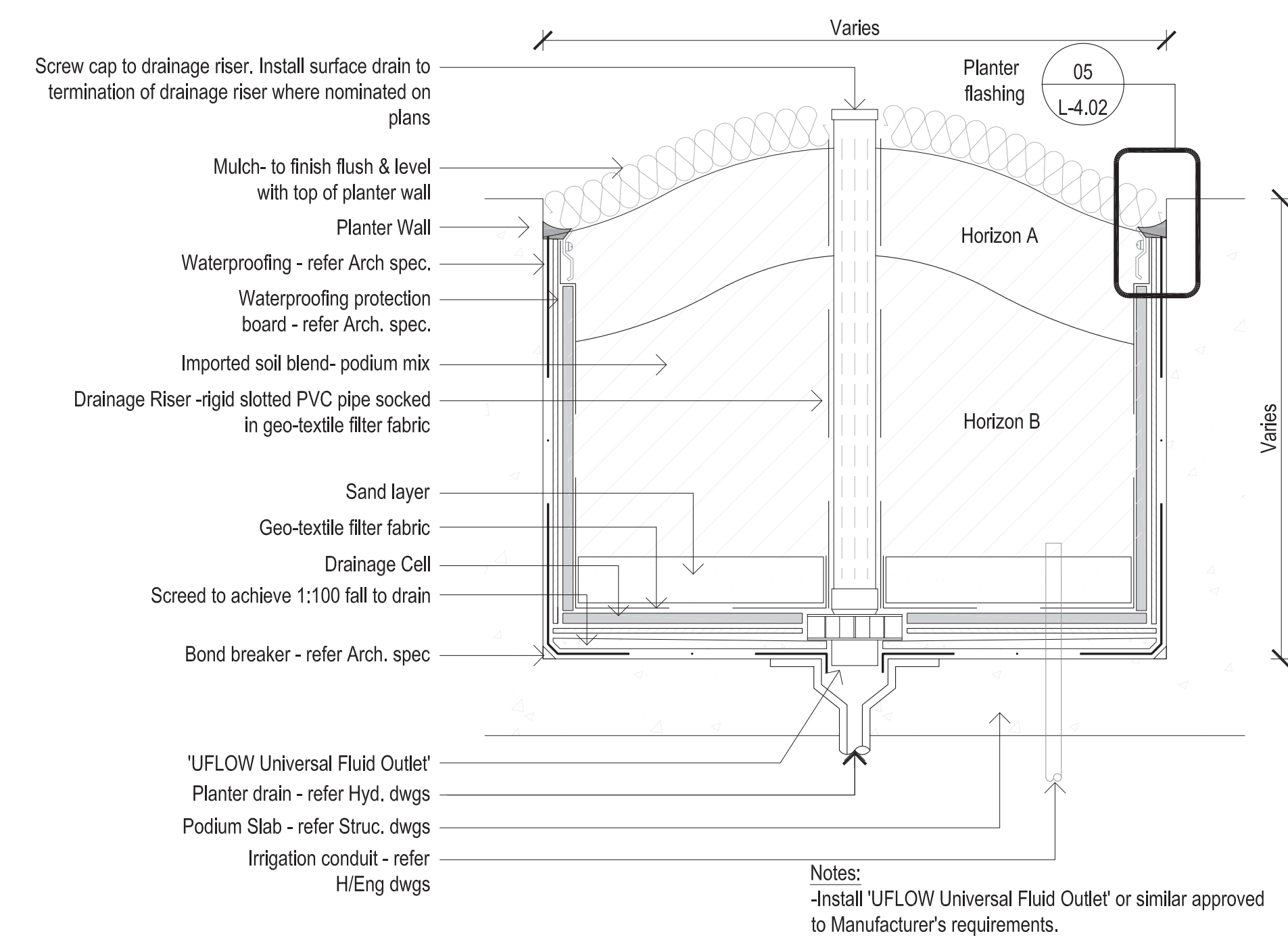
Canopy cover is extremely important for areas like Western Sydney in helping reduce temperatures and helping increase biodiversity. New developments often create wind tunnels that effect landscapes on podium spaces which can damage tree species in storm conditions. A series of details including guying, rootball anchoring and deep soil podium planters can help provide trees the infrastructure and stability during early establishment periods and ensuing mature vegetation will not be damaged in high wind conditions.



TREE GUYING DETAIL -SCALE 1: 20@A1



ROOT BALL ANCHOR TYPICAL -SCALE 1:10 @A1



TYPICAL PODIUM PLANTER DETAIL -SCALE 1:10

