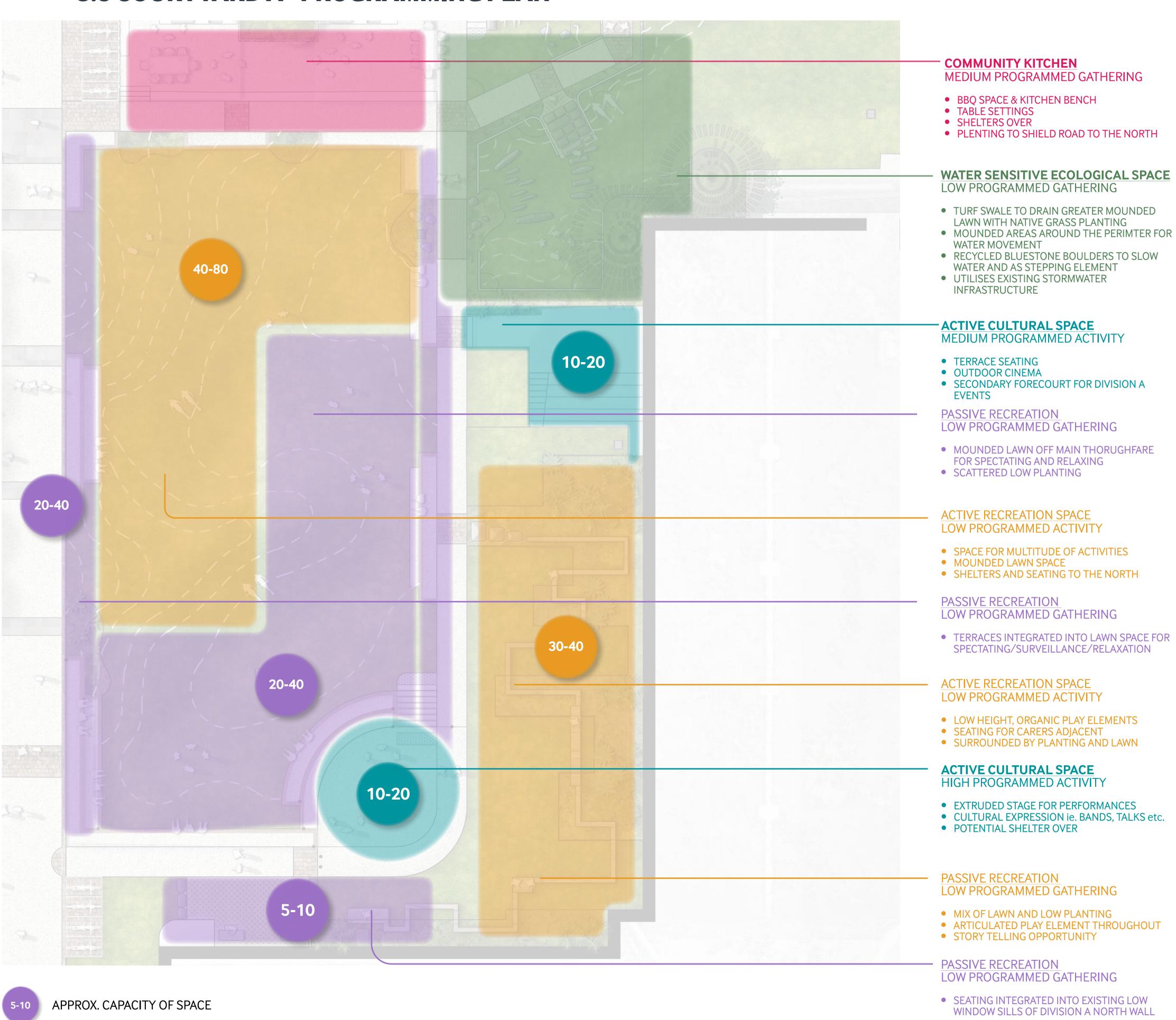
3.8 COURTYARD A - PROGRAMMING PLAN



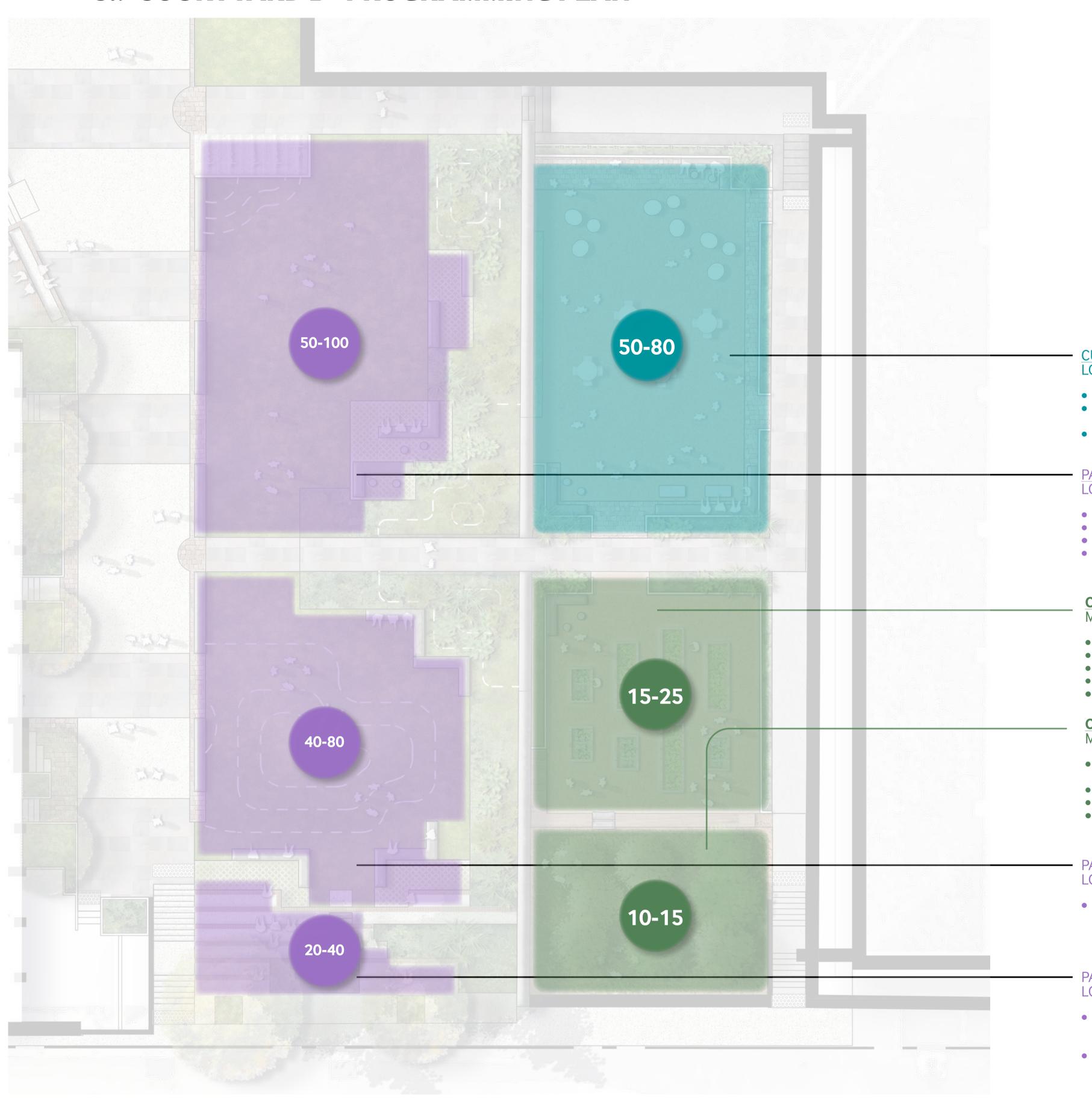






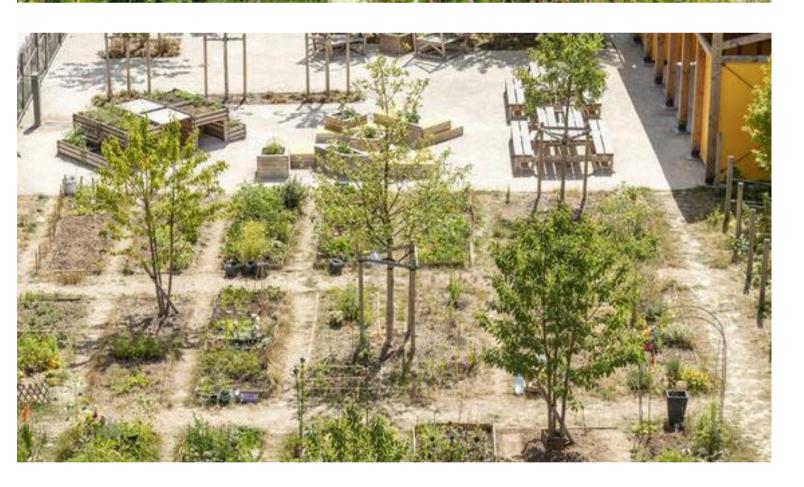


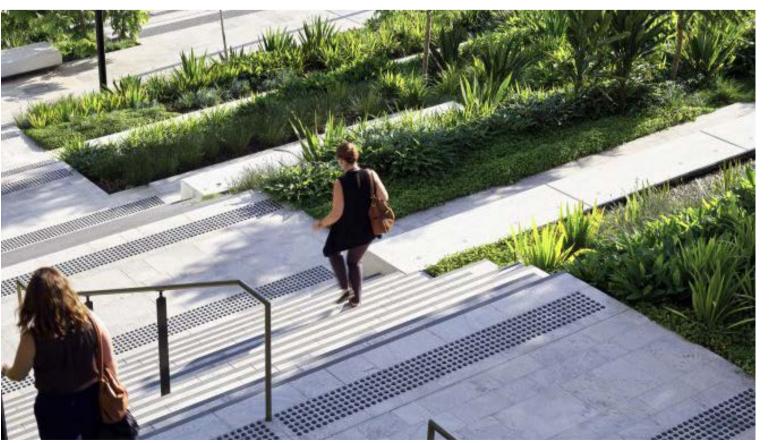
3.9 COURTYARD B - PROGRAMMING PLAN











CULTURAL EVENT SPACE LOW PROGRAMMED GATHERING

- FLAT OPEN PAD FOR EVENTS HOSTING
 PERIMETER PLANTING CREATES PRIVACY WHILE MAINTAINING SITELINES
 THREE DESIGNATED EGRESS POINTS

PASSIVE RECREATION LOW PROGRAMMED GATHERING

- LAWN SPACE OFF MAIN THORUGHFARE
 BENCH SEATING TO PERIMETER
 DDA COMPLIANT ACCESS
 PLANTING TO EAST

COMMUNITY GARDEN MEDIUM PROGRAMMED GATHERING

- GARDEN BEDS FOR VEGETABLES/BUSH FOODS
 WORK BENCH & COMPOST BINS
 BENCH SEATING TO PERIMETER
 PLANTED SURROUNDS
 DDA COMPLIANT ACCESS

COMMUNITY ORCHARD MEDIUM PROGRAMMED GATHERING

- IN GROUND SMALL FRUIT TREE AND BUSH FOOD PLANTING
 WORK BENCH & COMPOST BINS
 BENCH SEATING TO PERIMETER
 DDA COMPLIANT ACCESS AROUND PERIMETER

PASSIVE RECREATION LOW PROGRAMMED GATHERING

OPEN, MOUNDED LAWN SPACE WITH SCATTERED FIXED SEATING FOR INFORMAL GATHERING AND OPPORTUNITIES FOR KICK AND THROW

PASSIVE RECREATION LOW PROGRAMMED GATHERING

- TERRACING WITH PLANTING AND COURTYARD TREES FOR SHADE
- OPPORTUNITY FOR PASSIVE SURVEILLANCE OVER OPEN KICK AND THROW SPACE



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3.10 UPPER GROUND - BUILDING 01



LEGEND

PT1 Exposed/Honed Ag

Various Colours

Cobblestone

T2 Bluestone or simila

Bluestone or similar

Distressed look
Suspended over swale
Decomposed Granite
Concrete Reinforced

_. ..

Planting on ground

Contanerised/walled Planting

Turf on ground
TF1 'A' grade

Furniture

Seat Type 1
Concrete Cast in-situ
Allow for exposed artwork

Allow for exposed artwork etc.

Bike racks

BT1 Recycled Bluestone blocks location TBD on site

—----- Trellis type 1
Refer to Schedule







3.11 UPPER GROUND - BUILDING 02



LEGEND

Furniture

Cobblestone
Bluestone or similar

Large Unit paver
Bluestone or similar

Steel Mesh Walkway
Distressed look
Suspended over swale
Decomposed Granite
Concrete Cast in-situ
Allow for exposed artwork etc.

Bike racks

Recycled Bluestone blocks
location TBD on site

Trellis type 1
Refer to Schedule

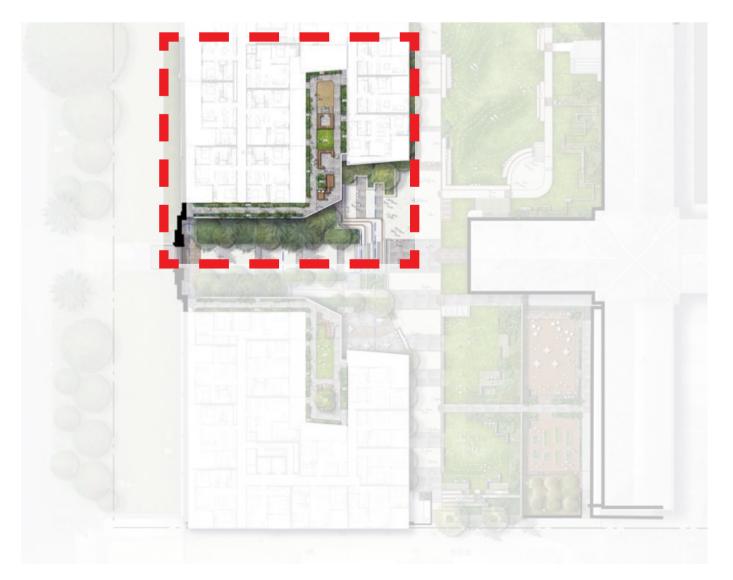
Planting on ground

Contanerised/walled Planting

Turf on ground
TF1 'A' grade



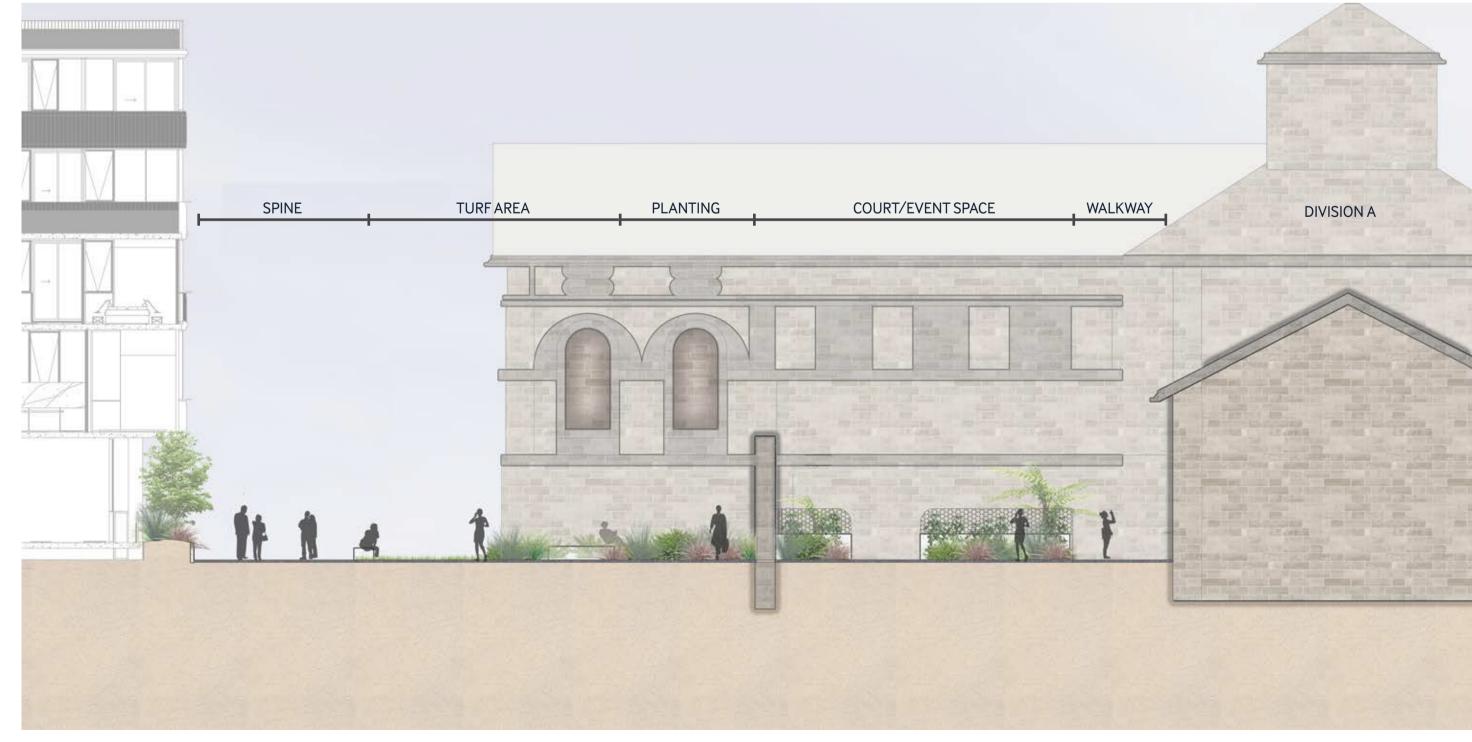


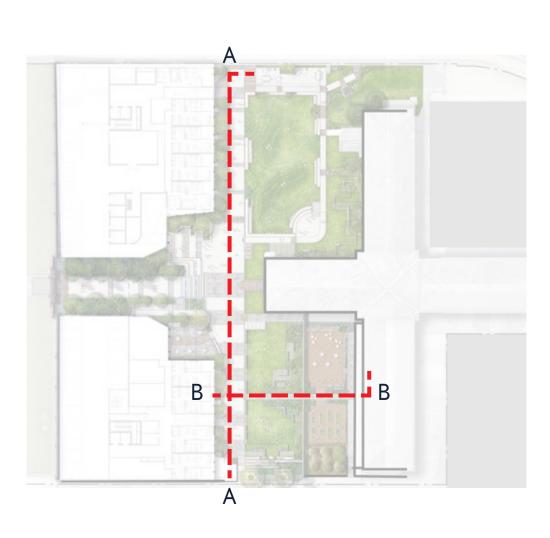


3.12 SECTIONS



SECTION A - NORTH/SOUTH SPINE

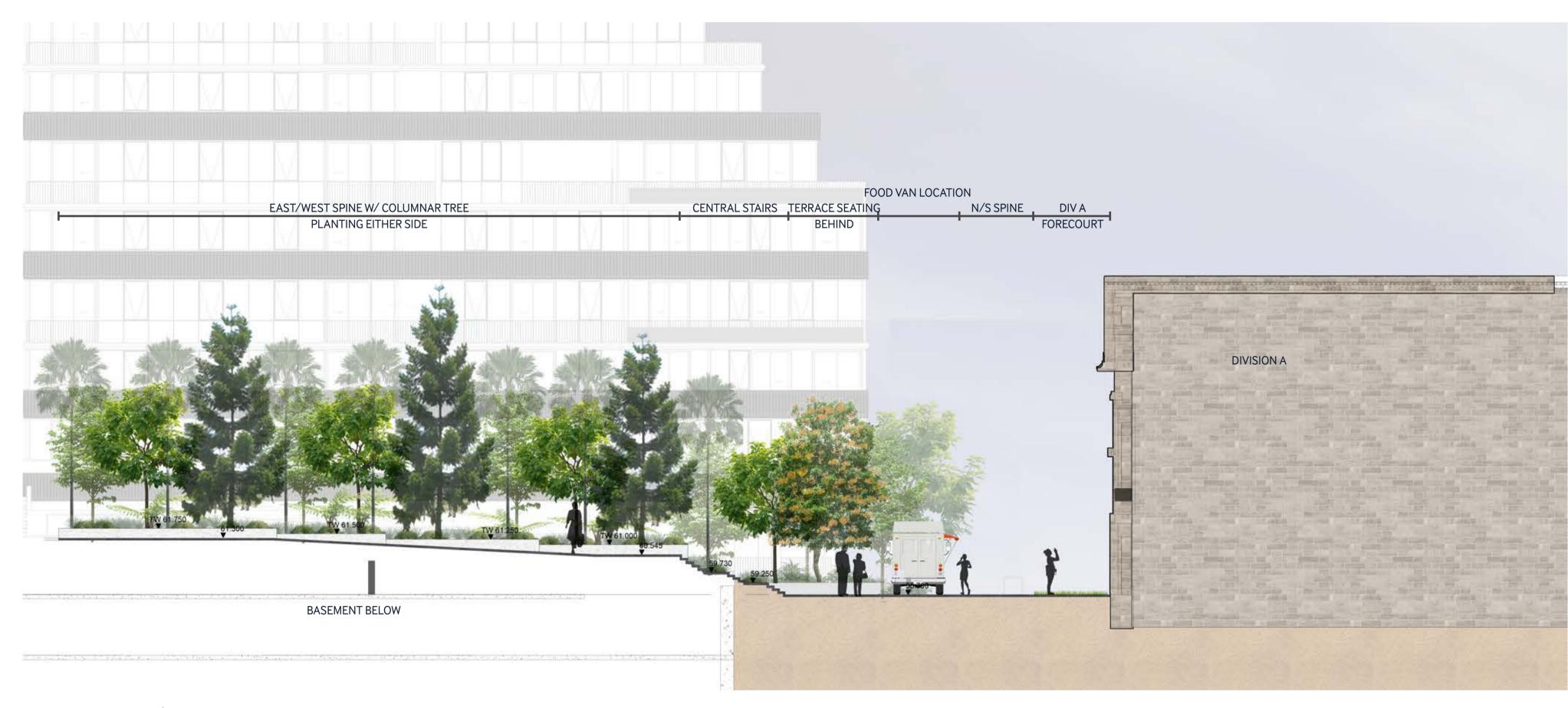




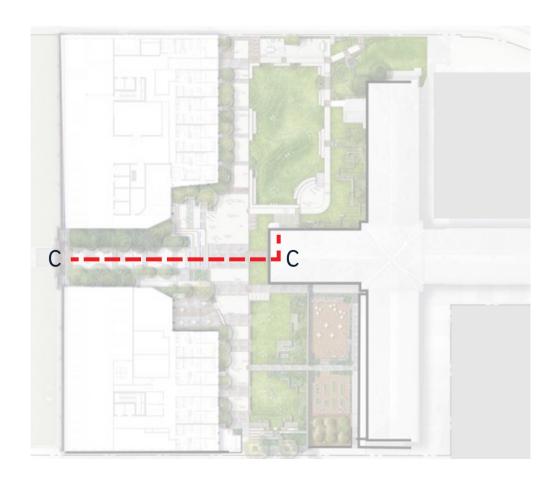
SECTION B - COURTYARD B

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3.12 SECTIONS



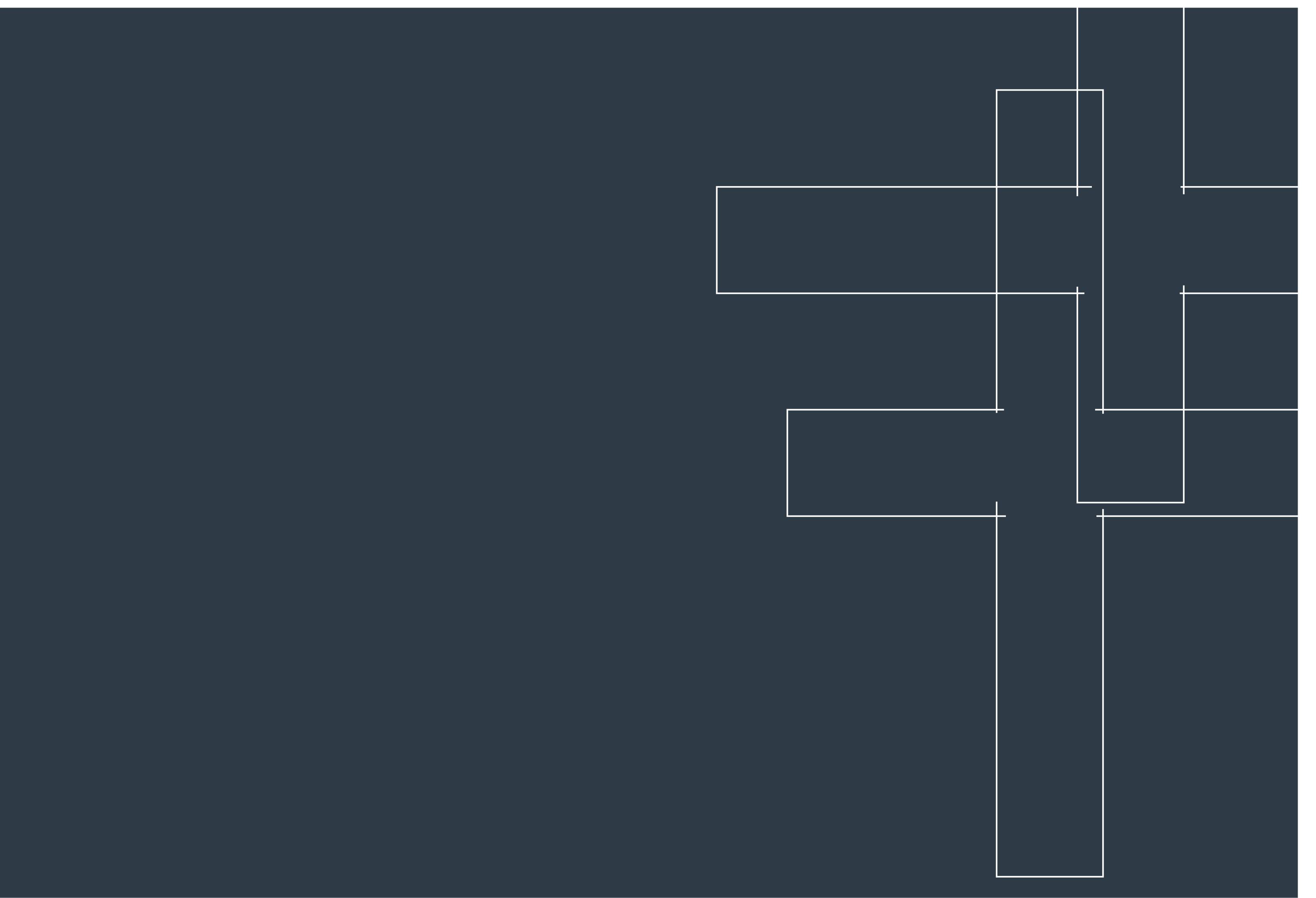
SECTION C - EAST/WEST SPINE



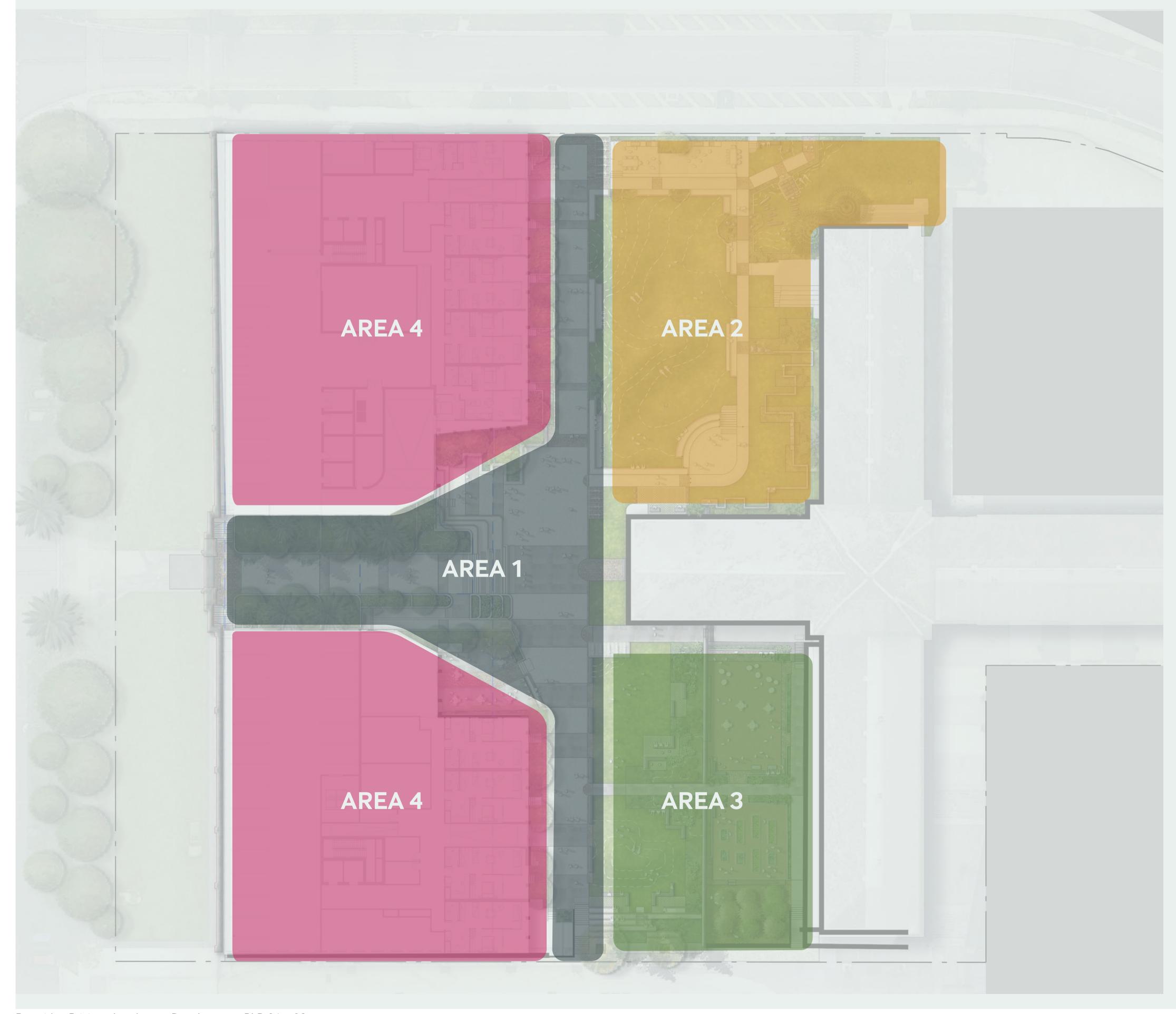
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Revision: P





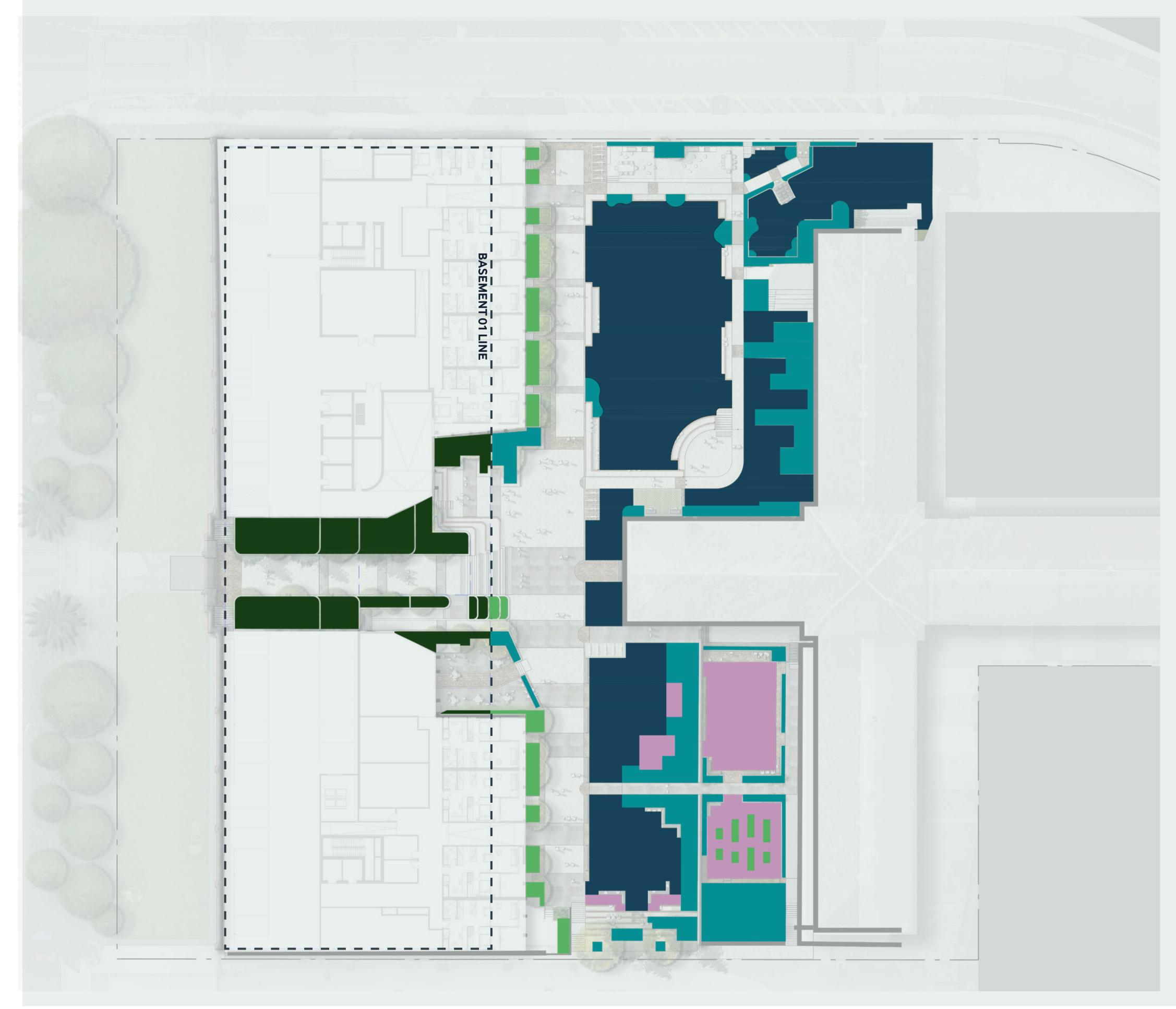
4.1 PLANTING STRATEGY - KEY PLAN



LEGEND

- AREA 1 Transition area Some podium & some Ground floor species
- AREA 2 Courtyard A Focus on full-sun native wildflower plantings with some larger shrubs on corners that won't obscure views of Division A
- AREA 3 Courtyard B Low scrambling natives that grow well in semi-full sun, transitioning to low light species around the base of Division A
- AREA 4 Podium Focus on more lush planting that grows well in lower light

4.2 SOIL PLAN - GROUND FLOOR



SOIL QUANTITIES

Legend	Soil Type	Soil Depth	Quantity
	Turf on Grade	Deep Soil	1195m²
	Planting on Grade	Deep Soil	498m²
	Walled/Containerised Planting	Natural Ground	106m²
	Planting on Structure	500mm-1000mm	258m²
	Additional Permeable Area		251m²

TOTAL DEEP SOIL AREA: **1,678 m**²
% OF SITE: **22.68%**TOTAL PREMEABLE AREA: **2,308 m**²
% OF SITE: **31.19%**

4.3 SOIL PLAN - PODIUM

SOIL QUANTITIES

Legend	Soil Type	Soil Depth	Quantity
	Planting on Structure	500mm-1000mm	107m²
	Turf of Podium	200mm-400mm	37m ²

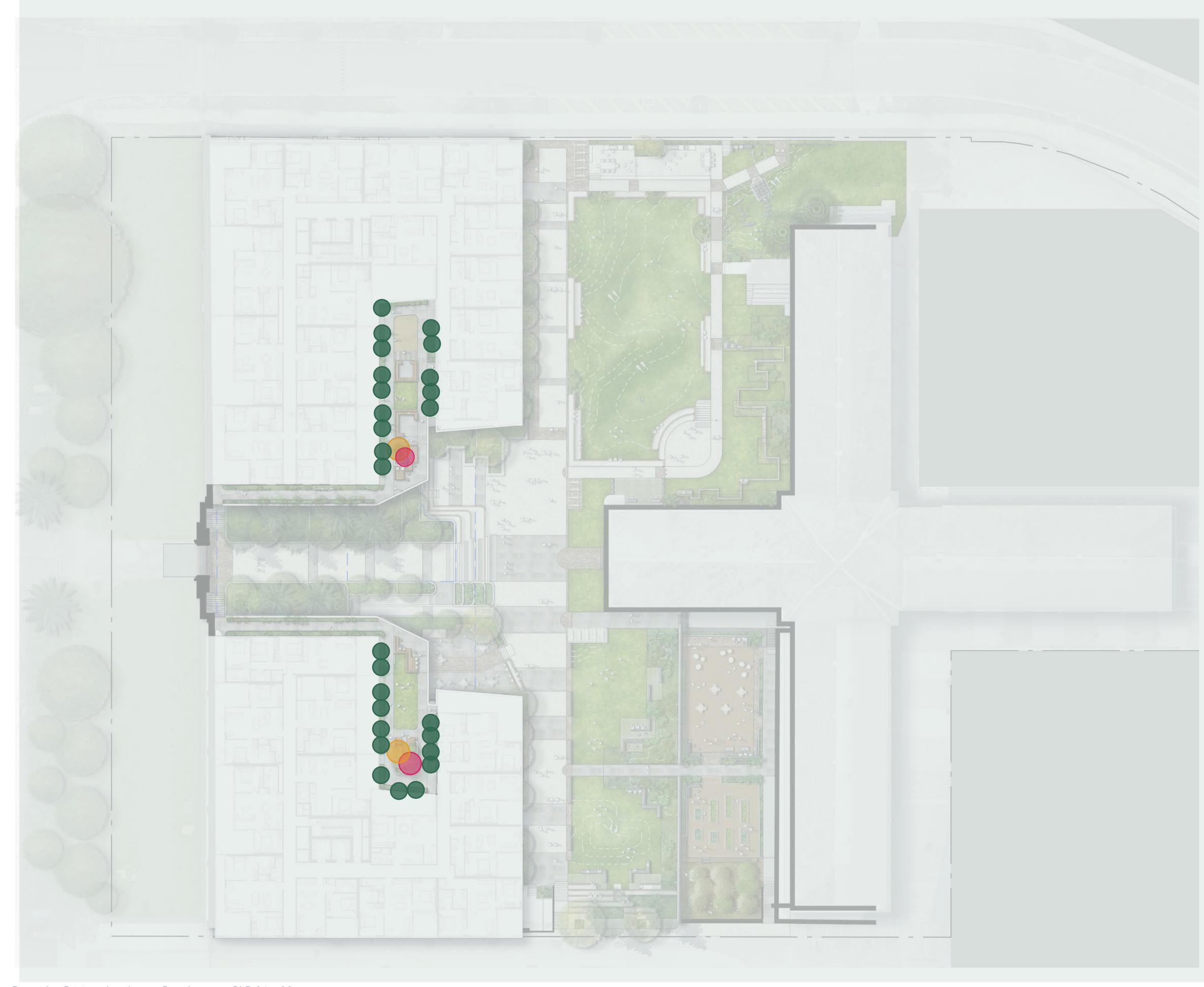
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4.4 TREE AND CANOPY PLAN - GROUND FLOOR



LEGEND

4.5 TREE AND CANOPY PLAN - PODIUM



LEGEND

CUPANIOPSIS anicardiodes (2)



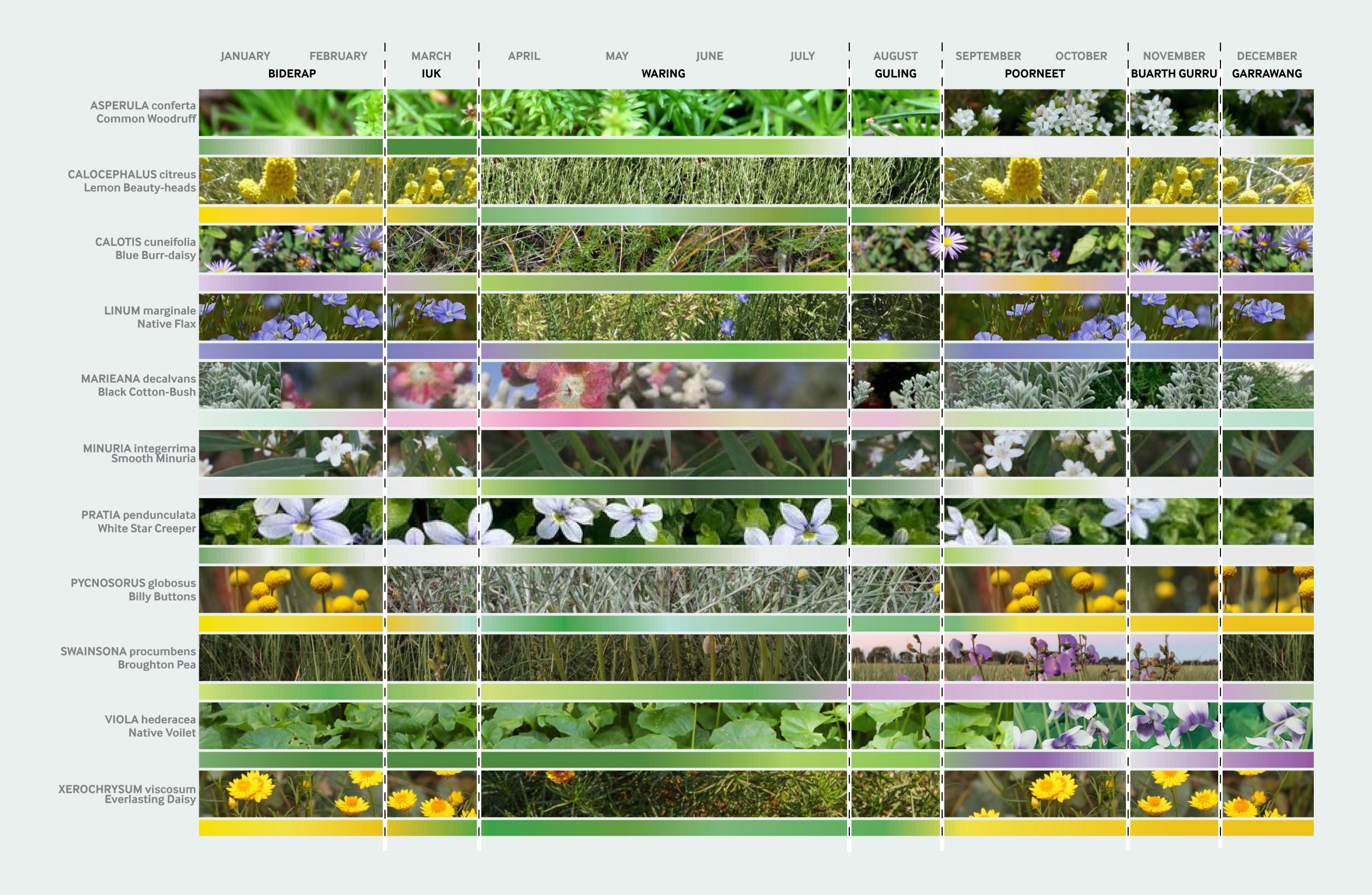
LIVISTONA australis (27)

WATERHOUSEA floribunda (2)

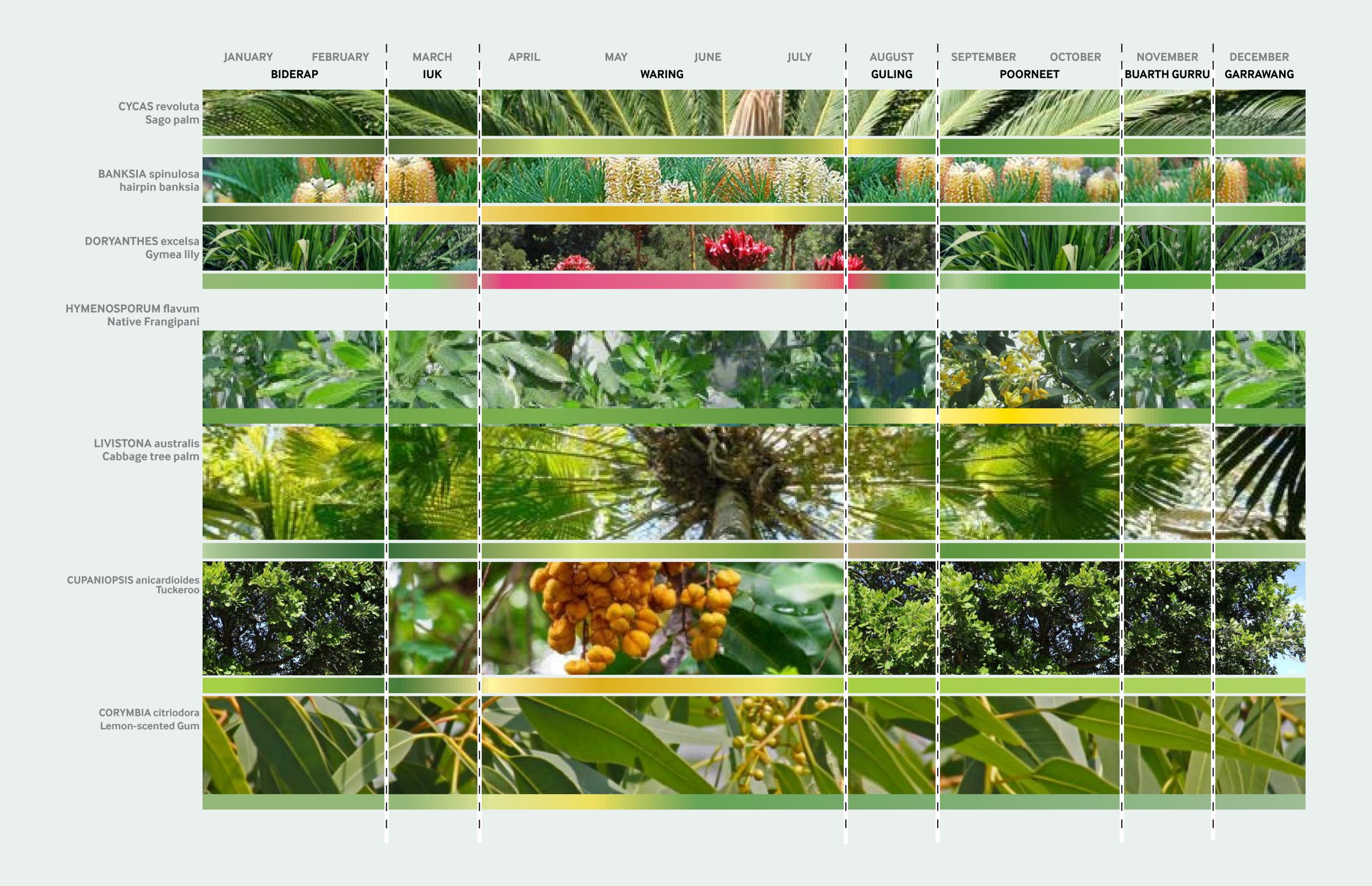
4.6 TRANSITION AREA - PLANT PALETTE I



GROUND FLOOR - GROUND COVER PALETTE



GROUND FLOOR - TREES & SHRUBS PALETTE



PODIUM - PLANT PALETTE



4.7 PLANTING SCHEDULE

GROUND & TRANSITION AREAS

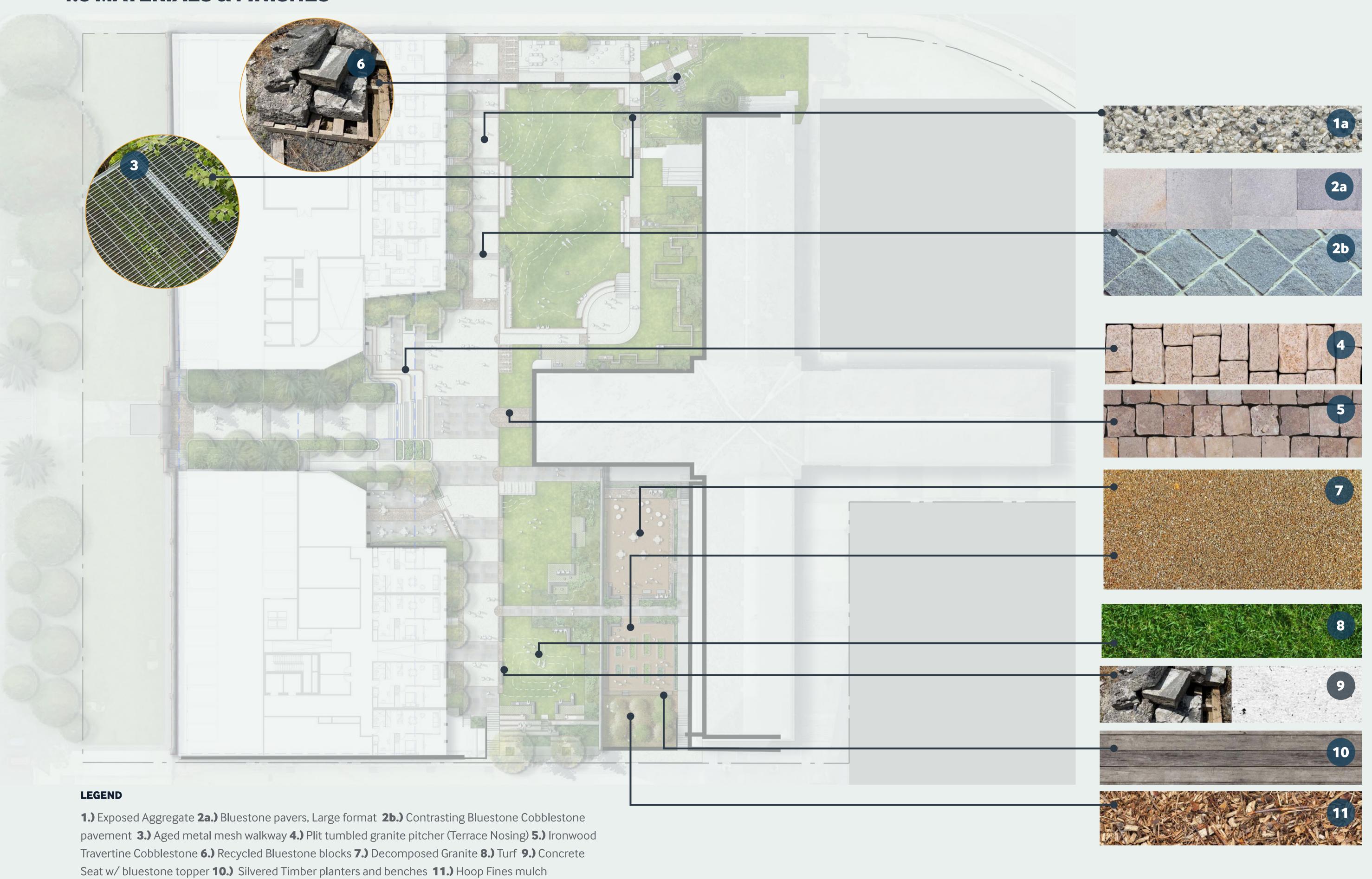
Botanical Name	Common Name	Mature HeightxSpread	Quantity
GROUNDCOVERS			
ACACIA cognata	Bower Wattle	.5m x 1m	7 per sqm
ASPERULA conferta	Common Woodruff	.2m x 1m	7 per sqm
CALOCEPHALUS citreus	Lemon Beauty-heads	.5m x 1m	7 per sqm
CALOTIS cuneifolia	Blue Burr-daisy	.5m x .5m	7 per sqm
DIANELLA revoluta	Flax Lily	.5m x 1m	7 per sqm
LINUM marginale	Native flax	.5m x .3m	7 per sqm
MARIEANA decalvans	Black Cotton-bush	.5m x 1m	7 per sqm
MINURIA integerrima	Smooth Minuria	.5m x 1m	7 per sqm
PRATIA pendunculata	White Star creeper	.2m x 1m	7 per sqm
PYCNOSORUS globosus	Billy Buttons	.9m x .5m	7 per sqm
RUSSELIA equisetiformis	Firecracker plant	1m x 1.5m	7 per sqm
SENECIO Serpens	Blue Chalksticks	.3m x 1m	7 per sqm
SWAINSONIA procumbens	Broughton Pea	.5m x 1m	7 per sqm
VIOLA hederacea	Native violet	.2m x .5m	7 per sqm
XEROCHRYSUM viscosum	Everlasting Daisy	.5m x .5m	7 per sqm
SHRUBS			
BANKSIA spinulosa	Hairpin Banksia	2m x 2m	3 per sqm
CYCAS revoluta	Sago Palm	3m x 3m	3 per sqm
DICKSONIA antarctica	Soft Tree Fern	3mx2m	27
DORYANTHES excelsa	Gymea Lily	3m x 3m	3 per sqm
TREES			
ARAUCARIA cunninghamii	Hoop Pine	20mx4m	9
CORYMBIA citriodora	Lemon Scented-gum	20m x 6m	9
CUPANIOPSIS anicardiodes	Tuckeroo	10m x 4m	25
HYMENOSPORUM flavum	Native frangipani	7m x 6m	2

PODIUM

Botanical Name	Common Name	Mature HeightxSpread	Quantity
GROUNDCOVERS			
ACACIA cognata	Bower Wattle	.5m x 1m	7 per sqm
DIANELLA revoluta	Flax Lily	.5m x 1m	7 per sqm
PRATIA pendunculata	White Star creeper	.3m x 1m	7 per sqm
SENECIO Serpens	Blue Chalksticks	1m x .3m	7 per sqm
VIOLA hederacea	Native violet	.2m x .5m	7 per sqm
SHRUBS			
MICROSORUM musifolium	Crocodile fern	1m x 1m	3 per sqm
TREES			
CUPANIOPSIS anicardiodes	Tuckeroo	10m x 4m	7
LIVISTONA australis	Cabbage tree palm	10m x 2m	17
WATERHOUSEA floribunda	Weeping Lilly Pilly	8m x 5m	4



4.8 MATERIALS & FINISHES



4.9 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, SOILIMPROVEMENT& PESTCONTROL

- 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 ares 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 removal 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:

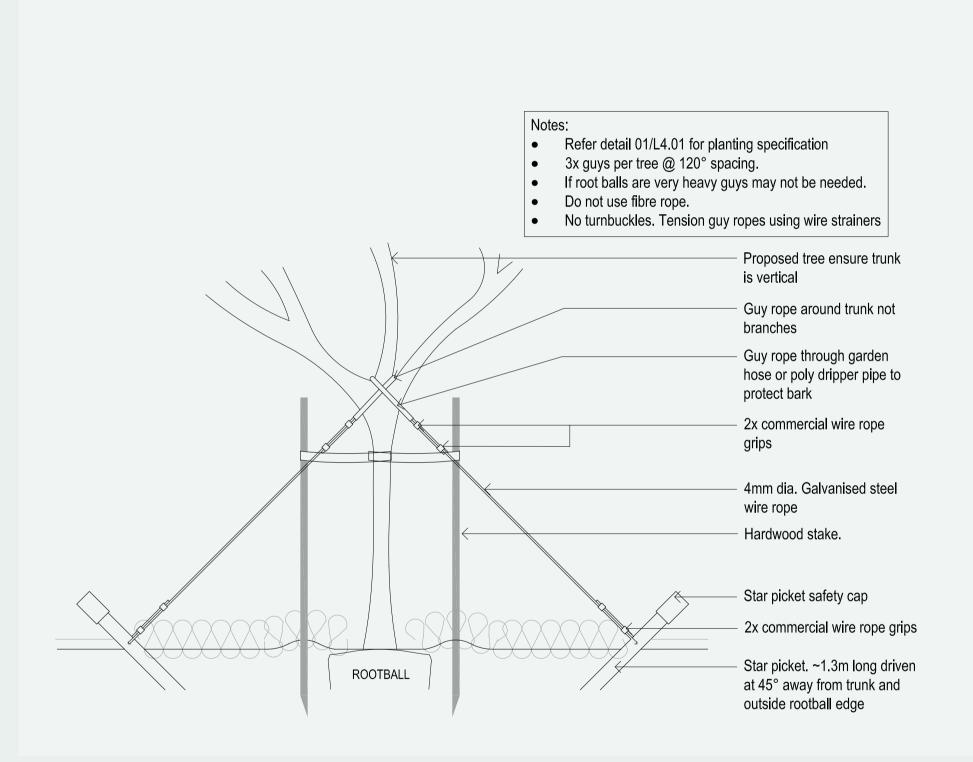
- Controller and soil moisture senor
- Cabinets clean / clear
- Wiring condition and electrical connections
- Back flow prevention device
- Battery replacement
- Valve covers, valve boxes
- Heads missing, clogged, leaking, broken, tilted or misdirected
- Drip emitters connected to flex line, flex line 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.

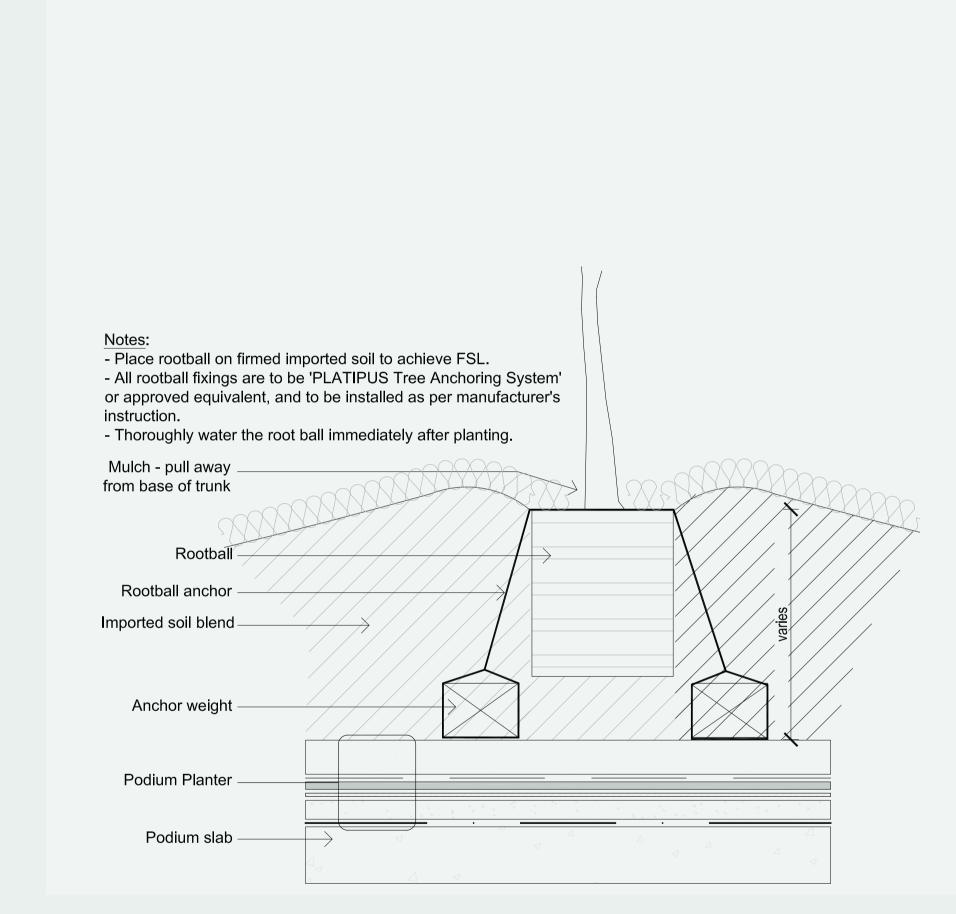
4.10 TYPICAL DETAILS

LANDSCAPE STRATEGY - WIND PROTECTION

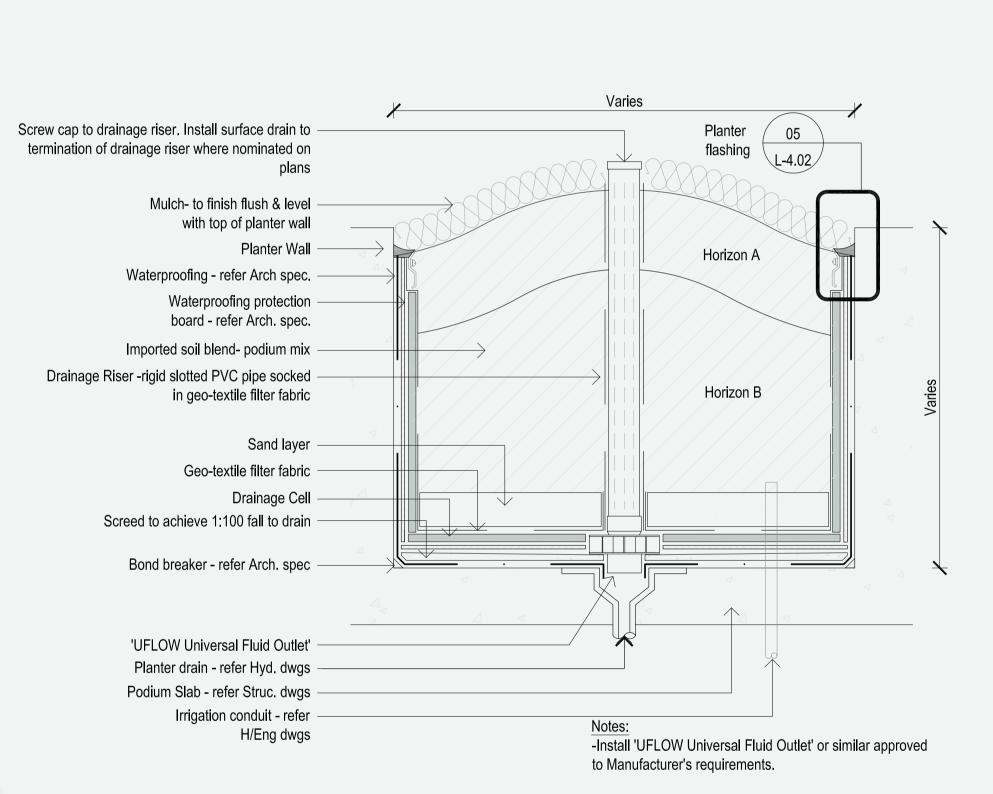
New developments often create wind tunnels that effect landscapes on podium spaces which can damage tree species in storm conditions. A series of details including guying, rootball anchoring and deep soil podium planters can help provide trees the infrastructure and stability during early establishment 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

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