

96-98 Ben Boyd Road, Neutral Bay Landscape S4.56 Application

Prepared for Podia, on behalf of Aidop No.3 Pty Ltd April 2023



MHNDUNON podia



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Local Context

LEGEND Site **Metropolitan Centre** North Sydney LGA Metro Line ···· Train Line Main Roads

'Thrupp's Farm Quarry'



Site History | Connecting to Country

ANCIENT GEOLOGICAL CONTEXT

Netural Bay is geologically formed from Hawkesbury Sandstone with Wianamatta shales on top. The formation of the harbour coves have been shaped by years of erosion and wind.

12,000BP - 1788

CAMMERAYGAL PEOPLE

The Cammeraygal people of the North Shore used the bountiful resources of the harbour and bush lands that offered them a sustainable lifestyle. Through out the harbour edges of the North Shore rock shelters "giba gunyahs" were used as places to gather, eat, sleep and tell stories, these areas play an important part of connecting the people, land and water together.

SETTLEMENT - PRESENT DAY

During European settlement, 700 acres of the Lower North Shore was gifted to Alfred Thrupp in 1819 'Thrupp's Farm'. Kurraba Point played an important industrial role in the development of Sydney's sandstone infustructure. Between 1860-1862, 8,000 tonnes of sandstone was quarried to build the Martello Tower at Fort Denison.

In the course of the 1860's residential development of the area had commenced, during the 20th century, Neutral Bay was developing as an 'alternative society suburb' attracting artistic creatives of the time that influenced the evolution of the suburb's architecture and design.

Today Neutral Bay is a highly sought after suburb of the Lower North shore, where 11,000 people enjoy the harbour side life style and close city access.



Endemic Vegetation Communities

COASTAL SANDSTONE GALLERY RAINFOREST

This endangered warmtemperate rainforest can be found in deep protected sandstone gully systems across Sydney. Due to poorer soil conditions, coastal sandstone gullys lack species diversity in comparison to other Australian rainforest. Common species include Tree ferns, Lilly pillys' and Water Gums, the ground floor is an open cover of ferns growing amongst sandstone boulders.



This is a common vegetation community found on exposed skeletal soils along narrow ridges and exposed slopes of the Woronoa and Hornsby plateau. Common plants in the community are Banksias, Tea Trees, Hakeas, Wattles and Grevilleas.

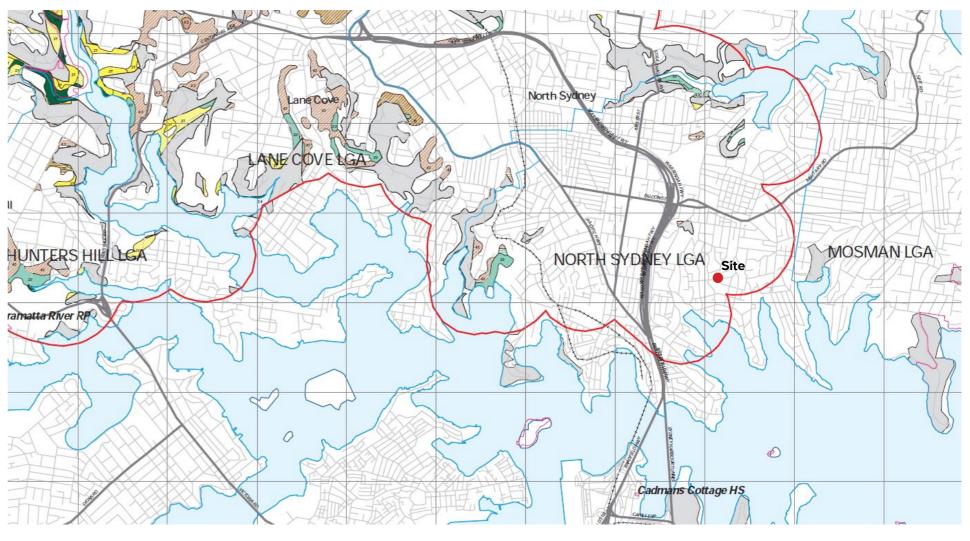
XERISCAPE

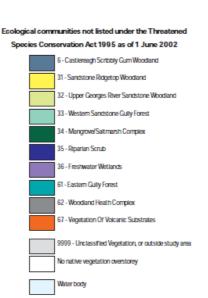
Xeriscape exists in rocky conditions where soil is limited. Rocky conditions can provide spontanteous growth outcomes.











Local Landscape Character

LANDFORM

The landform of the local streets surrounding the project site are typical of the Mosman area with significantly undulating topography punctuated by rocky outcrops and escarpments. This has created a diverse road and property layout which tends to express natural landform rather than dilute it. In many cases the existing sandstone bedrock is exposed and forms a datum to the street, on top of which most properties have an additional sadnstone retaining wall to negotiate level changes.

MATERIALITY

The consistent use of sandstone walling in this fashion has created a very strong local area identity and heritage. Older properties feature sandstone block walls whilst newer developments make use of both sandstone and brick tiling to match in with the overall look and feel of the area. Some properties have been more successful than others at celebrating the exposed sandstone bedrock and its diverse textures and colours.

PLANTING

Whilst public domain tree planting provides a degree of consistency to the streetscapes, most local properties feature a heavily diversified and naturalistic palette of planting which complements the natural landform and rock outcrops. This usually consists of a simple and understated understorey layer complemented with trees, palms, and ferns which contrast against the rock or architectural backdrops.











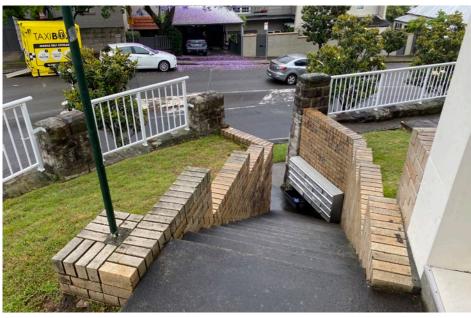




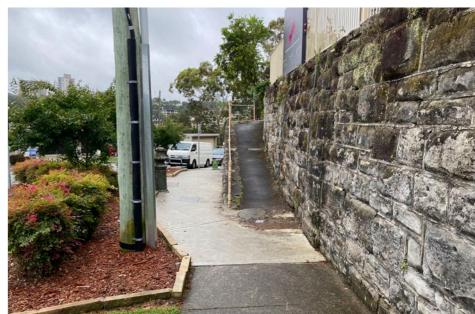








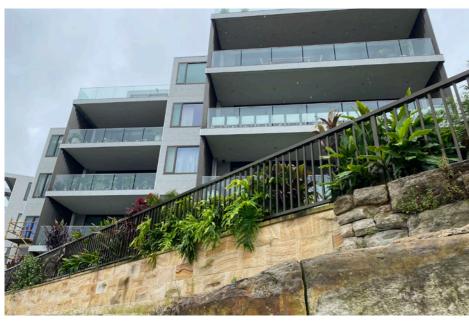




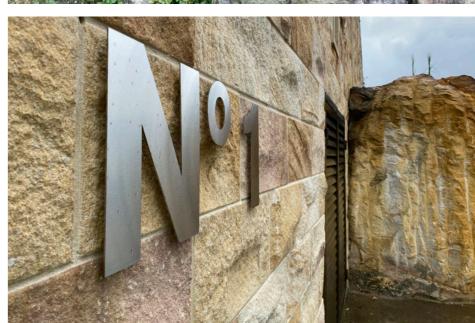


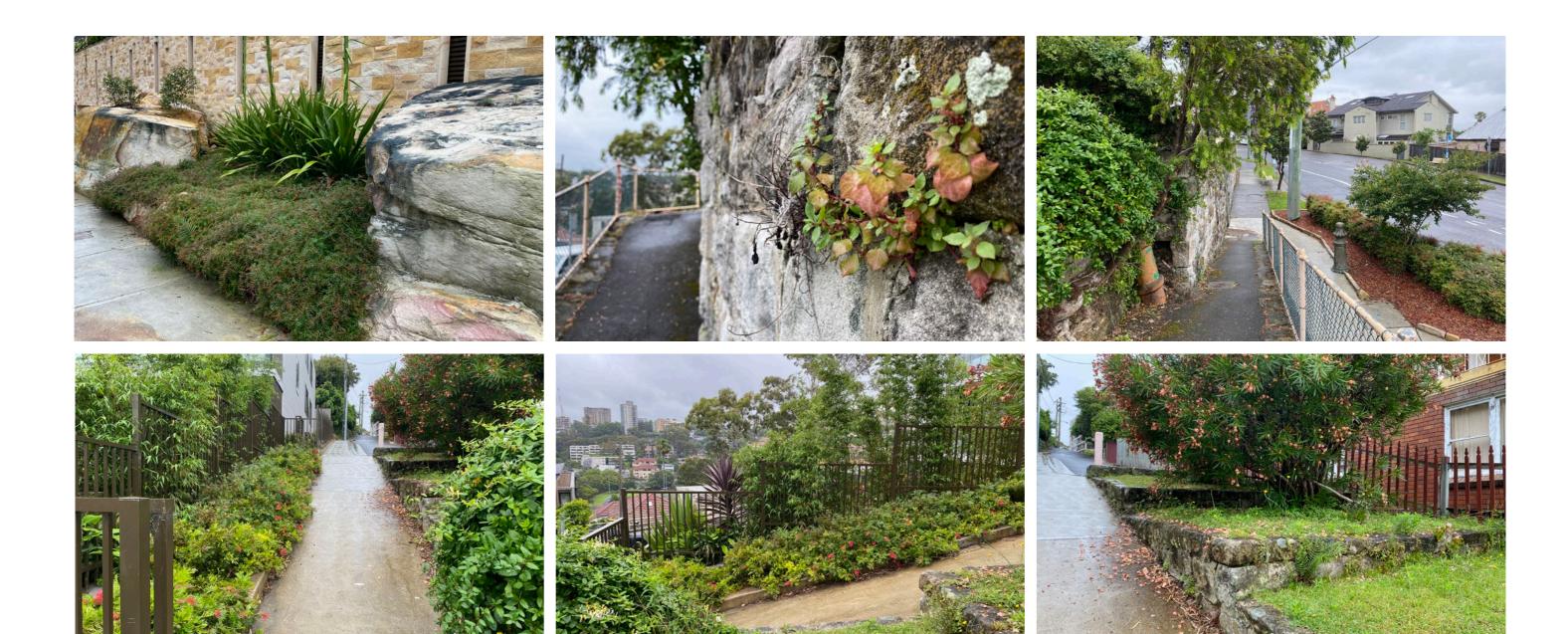


















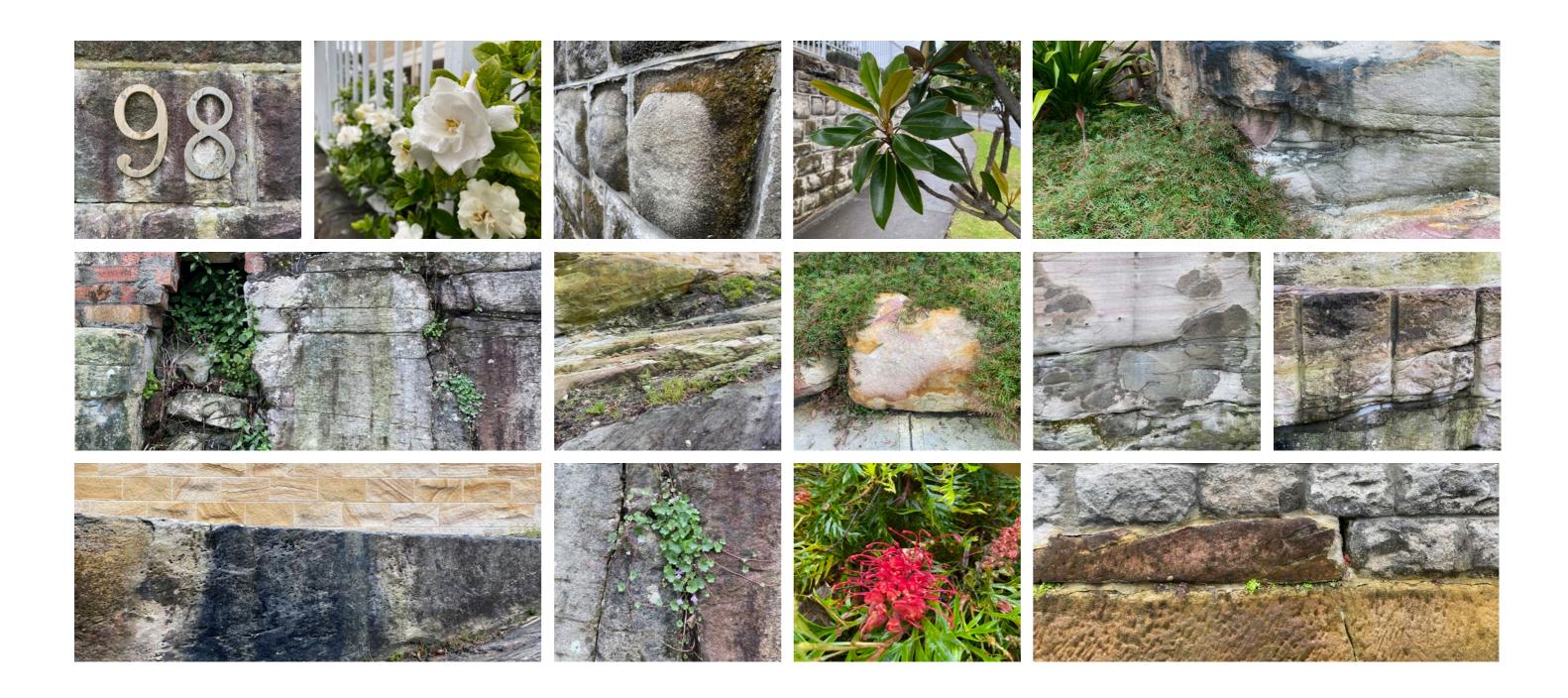








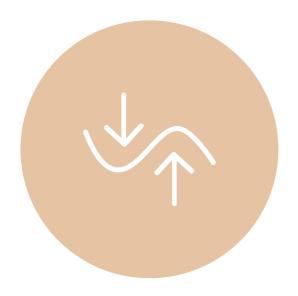
Existing Site Material Character







Design Principles





- Provide multi-leveled spaces that provide a diversity of user experience
- Above and below the earth, opportunities for diverse open space program which maximises site potential

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Reinforce Unique Site Identity

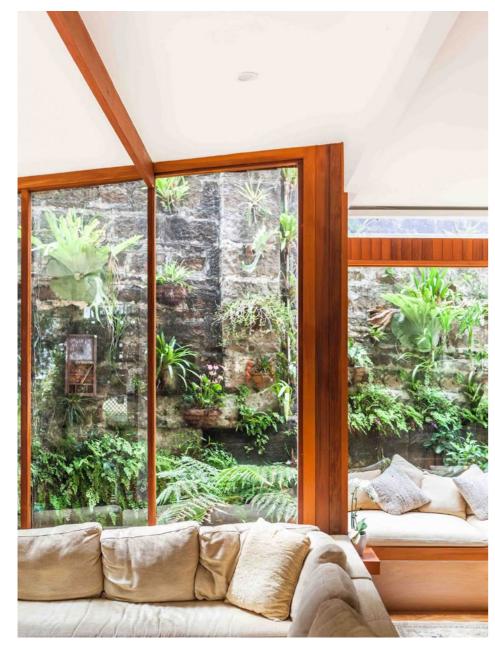
- Define open spaces that celebrate the geological and cultural heritage of the site and locality
 - Celebrating views



Connect to Nature

- Leverage microclimates to ceate engaging and comfortable spaces throughout the year
 - Champion locally endemic ecologies

Look and Feel

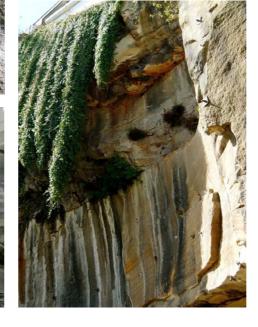










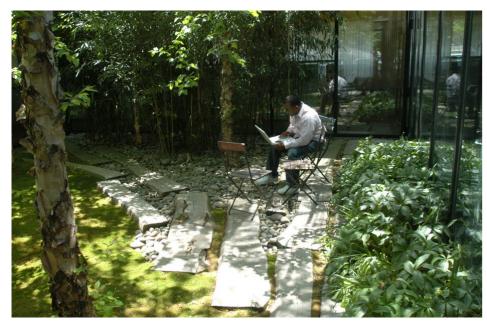






Look and Feel



















Concepts | Landscape Plan

LEGEND

01 Existing public domain retained / made good as required

02 Retention and re-use of existing sandstone wall on site boundary

03 Existing ramp and balustrade retained to High View Lane

04 Large native canopy trees in true deep soil

05 Entry courtyard with stair and platform lift access to street

06 Shade loving lawn alternatives such as native violet or kidney weed to create lawn effect and extend apparent private open space

07 Medium evergreen trees to garden beds on podium with minimum 1000mm soil mounded to 1500mm depth

08 Generous private patios

09 Palm planting to complement canopy tree planting and provide additional screening and green outlook to upper floor apartments

10 Flagstone pavers form seating nooks in rear gardens, accessed via stepping pavers. Can be used for small outdoor furniture settings



Concepts | Entry Forecourt

LEGEND

01 Existing public domain retained / made good as required

02 Retention and re-use of existing sandstone wall on site boundary

03 Secure gated entrance from Ben Boyd Road

04 Platform lift with turning bay

05 Carved sandstone 'shard' entry feature and stair

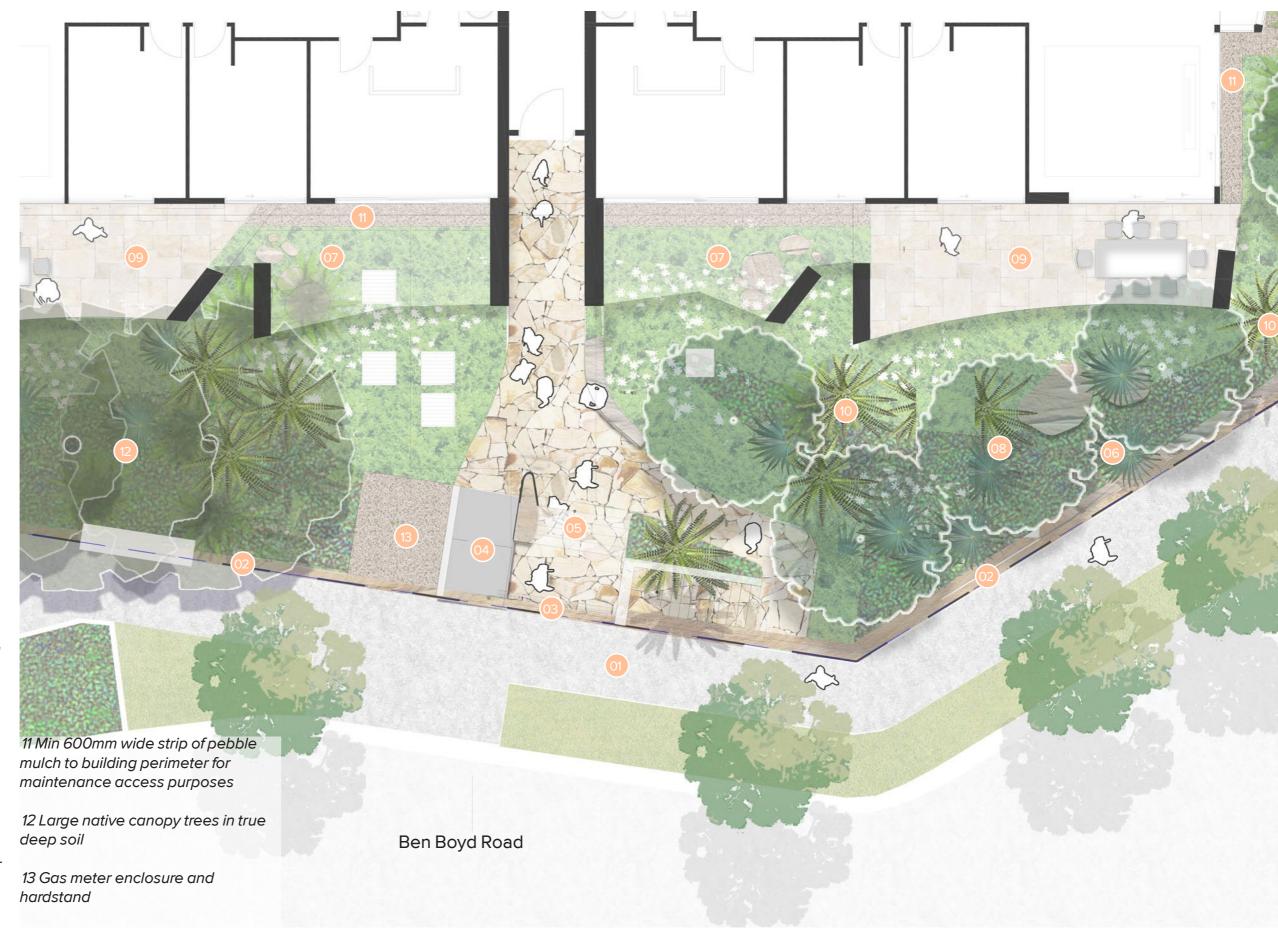
06 Tall layered native planting and ferns to perimeter of gardens

07 Low mass planting of shade loving ferns and ground covers creates a consistent canvas to contrast the built form against, and allow maximum light into ground floor units

08 Medium evergreen trees to garden beds on podium with minimum 1000mm soil mounded to 1500mm depth

09 Generous private courtyards provide solar access to ground floor units, recessed into lush sandstone gully planting

10 Palm planting to complement canopy tree planting and provide additional screening and green outlook to upper floor apartments

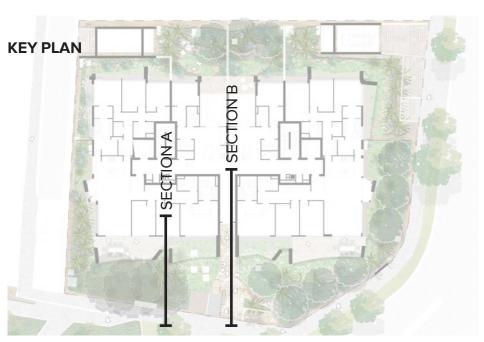


Version: 1, Version Date: 13/04/2023

Concepts | Entry Forecourt







LEGEND

01 Existing public domain retained / made good as required

02 Retention and re-use of existing sandstone wall on site boundary

03 Large native canopy trees in true deep soil

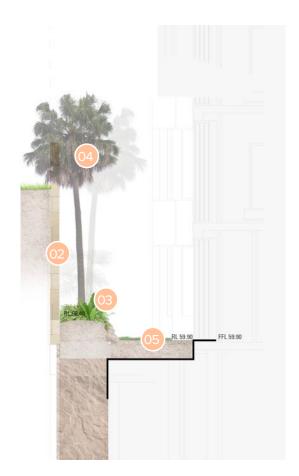
04 Stair and platfrom lift, secure gated entrance

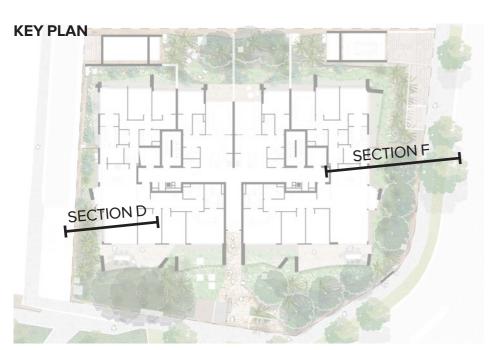
05 Stone paving to entrance forecourt

06 Garden beds minimum 500mm depth over structural slab or bedrock with low mass planting of shade loving ferns and ground covers, creates a consistent canvas to contrast the built form against, and allow maximum light into ground floor units 07 Tall layered native planting and ferns to perimeter of gardens

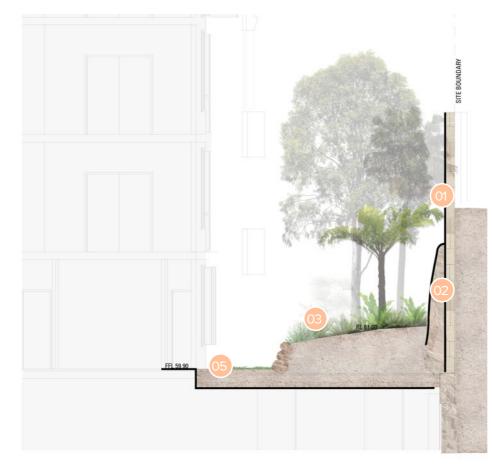
Concepts | Private Courtyards

SECTION D





SECTION F









LEGEND

01 Retention and re-use of existing sandstone wall on site boundary

02 Exposed sandstone bedrock with quarried finish, rock planting to colonise face

03 Low rock retaining walls build up soil depth to min 1000mm for palm and tree fern planting, and min 1500mm for medium trees

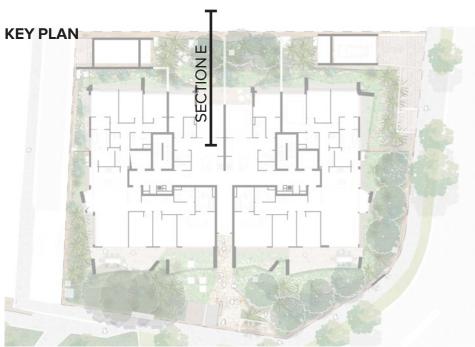
04 Palm planting to complement canopy tree planting and provide additional screening and green outlook to upper floor apartments

05 Garden beds minimum 500mm depth over structural slab or bedrock with low mass planting of shade loving ferns and ground covers

Concepts | Private Courtyards

SECTION E











LEGEND

01 Generous private courtyards

02 Shade loving lawn alternatives such as native violet or kidney weed to create lawn effect and extend apparent private open space. Meandering pathway of stepping stones provides access through 'lawn' to small outdoor furniture settings nestled among lush sandstone gully planting

03 Tall layered native planting and ferns to perimeter of gardens

04 Medium native evergreen trees

05 Engineered deep soil zone over basement, with minimum 1500mm soil depth to suport medium sized native trees

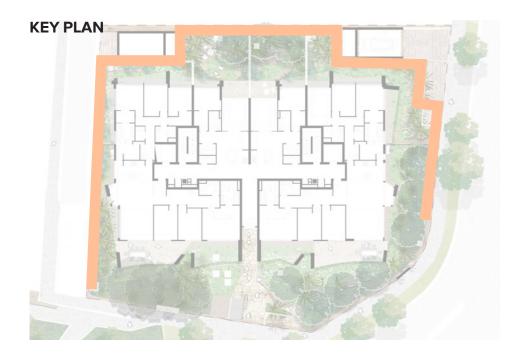
06 Exposed sandstone bedrock with quarried finish, rock planting to colonise face

Concepts | Sandstone Edge Conditions

EXCAVATED ROCK FACE

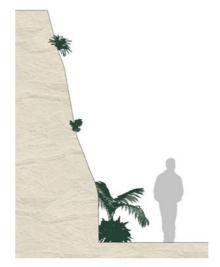
The exposed sandstone of the proposed site excavation provides an opportunity to express the 'bones' of the site and create a unique micro-climatic experience for residents and visitors.

The final appearance of the sandstone faces will be dependent on geotechnical investigations, however if the sandstone is of acceptable standard then several typologies are possible. These are illustrated on this page.



TYPE A - NATURAL

Qaurried and worked face requiring specialist stonemasonry tooling and finishing, to replicate more naturalistic undulating forms in the rock. Potentially seeded with pioneering plants.





TYPE B - TERRACED

Quarried face with stepped or terraced layers, which could be used to integrate planting to scramble down the face of the rock.





TYPE C - VERTICAL QUARRIED

Quarried face with straight vertical cut, ideal for more space constrained edges where solar access and setback is to be prioritised.





Concepts | Rooftop Planting

LEGEND

01 Extensive irrigated rooftop garden to car elevator roofs - maintenance access only. 150mm soil depth extensive roof garden 'Junglefy Green Roof' or similar

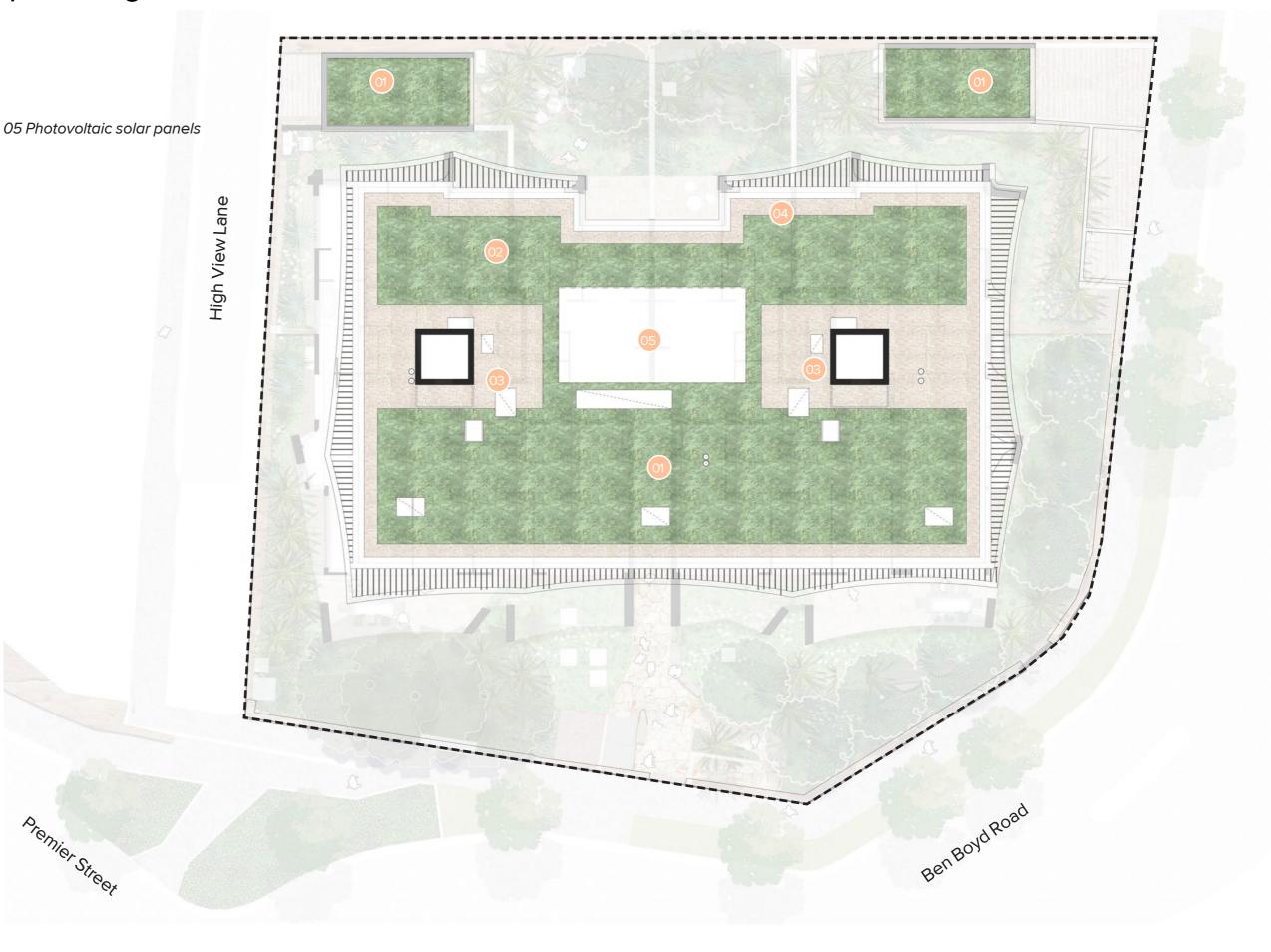
02 Extensive irrigated rooftop garden to building rooftop maintenance access only

03 Roof hatch for maintenance access

04 Stabilised pebble ballast maintence access path around perimeter of rooftop, with integrated anchor points

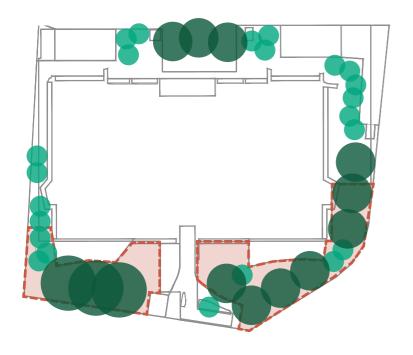


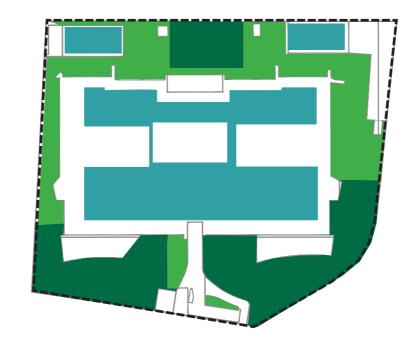


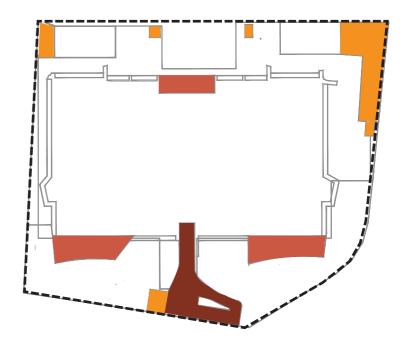




Landscape Areas







TREE LAYER



Canopy Trees



Palms



Deep Soil Zone (excludes basement, building footprint, and landscape hard pavements)*

*In most areas there are dense rock formations present within the proposed deep soil zone. We propose excavating down as required to build up to 1500mm depth of engineered deep soil to support canopy trees, palms, and layered understorey vegetation, in alignment with industry best practice.

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SOFT LANDSCAPE LAYER



Soft Landscape on Deep Soil/Engineered Deep Soil* 1000-1500mm soil depth 296 (17%)



Soft Landscape on Podium Min 500mm soil depth for shrubs, ferns, and groundcovers, mounding to 1000mm for palms and tree ferns, and 1500mm for trees 401m2 (24%)

Total Soft Landscape Area at ground level: 697m2 (41% of total site area)

Additionally:



Planting on Rooftop 150mm soil depth extensive roof garden 'Junglefy Green Roof' or similar 426m2 (25%)

OPEN SPACE PROGRAM



Paved Communal Open Space (accessible) 54 m2



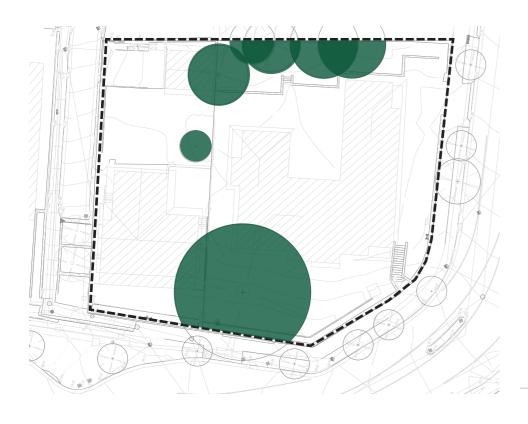
Paved Private Open Space 76 m2

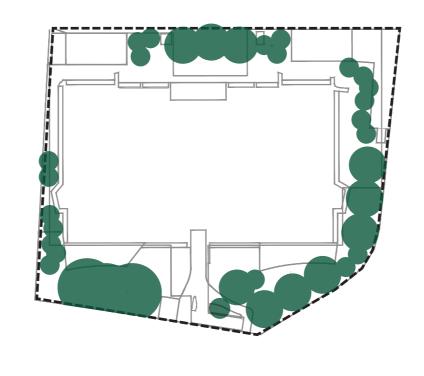


Paved Driveways / Utility Spaces 74m2

Total Hard Paved Landscape Area at ground level: 204m2 (12% of total site area)

Canopy Cover





EXISTING CANOPY COVER

Site Area - 1700m2



Existing Tree Canopy Area - 370m2 (22% of site area)

PROPOSED CANOPY COVER

Site Area - 1700m2

Proposed Tree Canopy Area - 374m2 (22% of site area)

NOTE:

Assumes at maturity -

Large tree 10m diameter equal to Angophora costata, Medium tree 5m diameter equal to Cupaniopsis anacardioides Palm tree 2.5m diameter equal to Livistona australis

Design Strategies | Material Look and Feel





















Design Strategies | Indicative Lighting Strategy

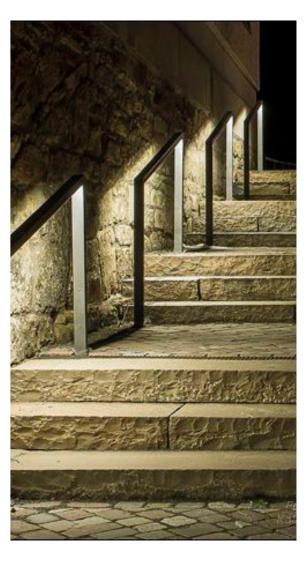












Design Strategies | Planting Look and Feel















Design Strategies | Planting Palette



Design Strategies | Planting Schedule

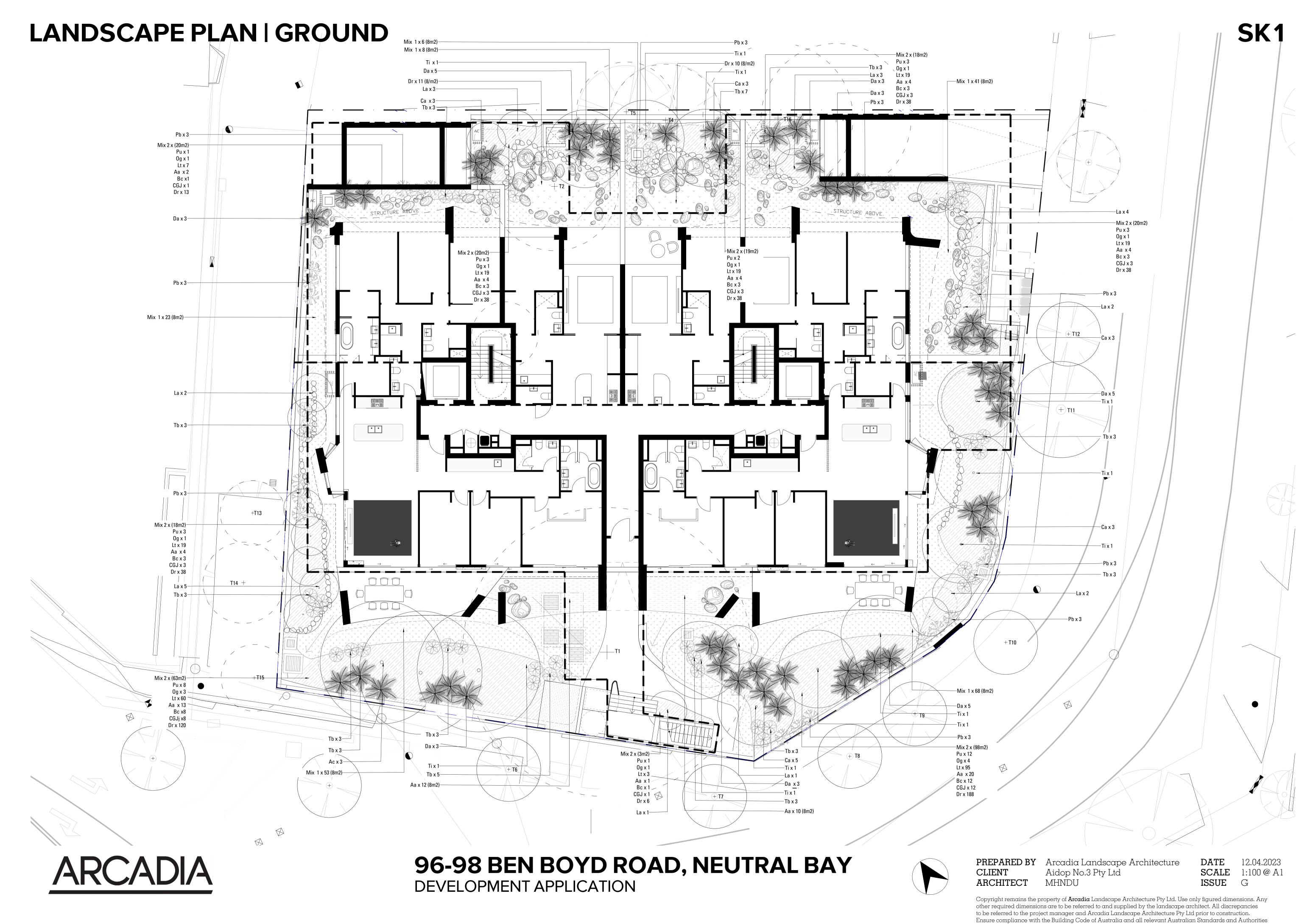
21-805 96-98 BEN BOYD ROAD PLANT SCHEDULE

SANDSTONE GULLY- GROUND LEVEL TREES Smooth Barked Apple 25 x 10						
TREES	CODE	BOTANIC NAME	COMMON NAME		PROPOSED POT SIZE	DENSITY
TREES	CANDST	ONE CHILLY CROHND LEVEL				
Ac	SANDST					
Til	Ac	-	Smooth Barked Apple	25 x 10	Min 1m trunk	As Shown
Livistona australis Cabbage Tree Palm 20 x 6 Min 6m trunk As Shown Mix 1 - Low Planting Mix 1 - Low Planting 140mm 8/sqm Vhe Viola hederacea Native Violet 0.1 x 1 140mm 8/sqm Aam Adiantum aethiopicum Maidenhair Fern 0.2 x 0.3 140mm 8/sqm Dc Dianella caerulea Flax Lily 0.6 x 0.6 140mm 8/sqm Di Dianella revoluta Blue Flax Lily 0.6 x 0.6 140mm 8/sqm Do Doodia aspera Rasp Fern 0.5 x 0.5 140mm 8/sqm Hs Hibbertia scandens Kidney Weed 0.5 x 3 140mm 8/sqm Mix 2 - Tall Planting Kidney Weed 0.3 x 5 140mm 8/sqm Aa Asplenium australasicum Bird's Nest Fern 1.3 x 0.8 45LT As Shown Be Blechnum Cartilagineum Gristle Fern 1 x 1 45LT As Shown CGJ Callistemon 'Green John' Green John 1 x 1 25L As Shown LT Lomandra longifolia 'Tanika' Tanika 0.5 x 0.6		• .				
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Accents Ca Cyathea australis Rough Tree Fern 6 x 5 Min 2m trunk As Shown	Pu	Pteris umbrosa	Jungle Break	0.8 x 0.8		As Shown
Ca Cyathea australis Rough Tree Fern 6 x 5 Min 2m trunk As Shown Da Dicksonia antarctica Soft Tree Fern 8 x 4 Min 2m trunk As Shown Tb Todea barbara King Fern 2 x 2 45LT As Shown Pb Platycerium bifurcatum Elkhorn Fern 2 x 2 45LT As Shown Ground Covers & Mass Planting Total Dichondra repens Kidney Weed 0.3 x 5 140mm 8/sqm	Og	Oceaniopteris gibba	Silver Lady	0.9 x 1.2	45LT	As Shown
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Ground Covers & Mass Planting 0.3 x 5 140mm 8/sqm			1 -			
Dr Dichondra repens Kidney Weed 0.3 x 5 140mm 8/sqm	Pb	Platycerium bifurcatum	Elkhorn Fern	2 x 2	45LT	As Shown
		· ·				
Aa Asplenium australasicum Bird's Nest Fern 1.3 x 0.8 45LT As Shown		1	Kidney Weed	0.3 x 5	1	8/sqm
	Aa	Asplenium australasicum	Bird's Nest Fern	1.3 x 0.8	45LT	As Shown

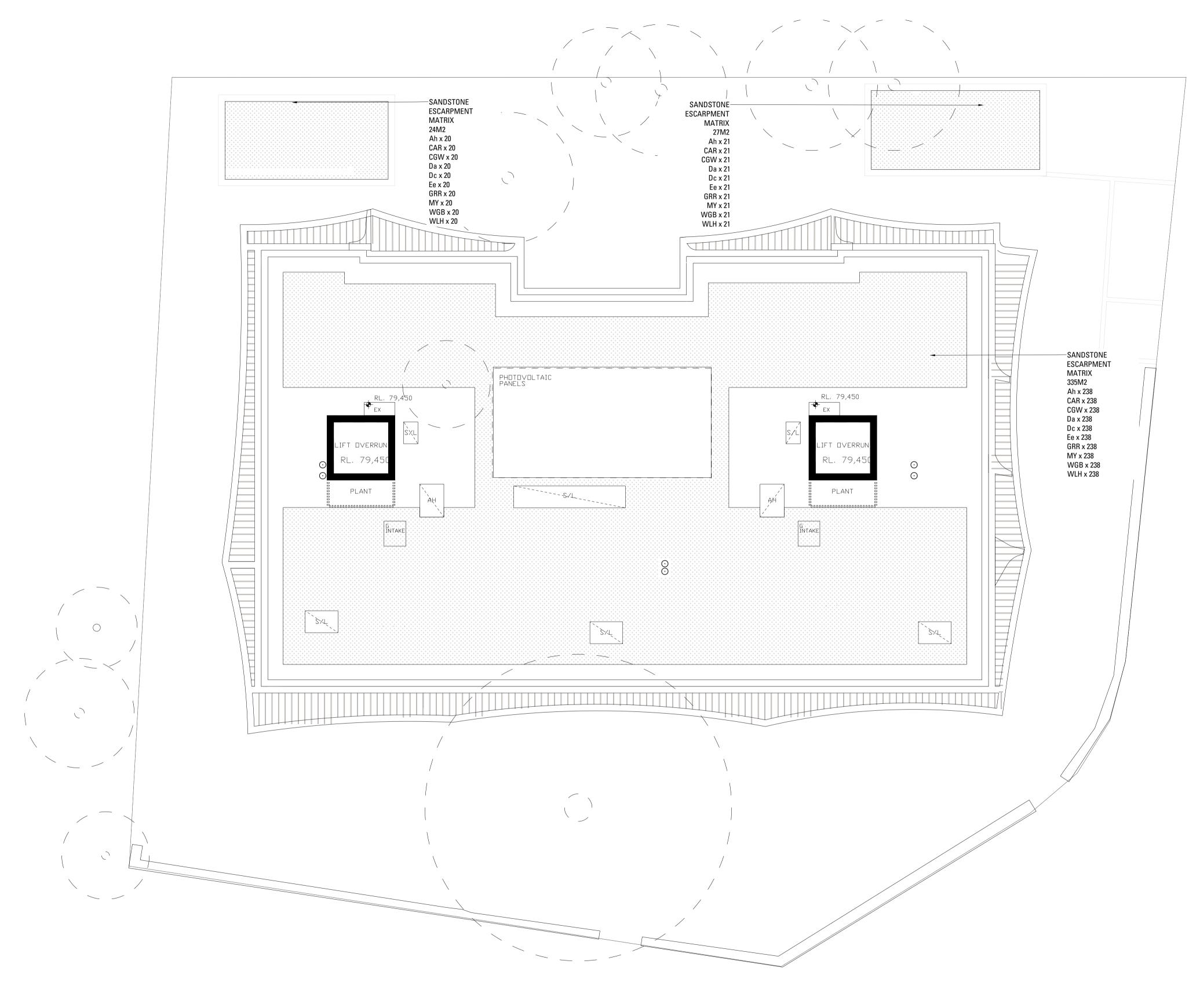
	SHRUBS & ACCENTS				
Ah	Actinotus helianthi	Flannel Flower	0.5 x 0.5	140mm	8/sqm
CAR	Carpobrotus 'Aussie Rambler'	Aussie Rambler	0.25 x 0.5	140mm	8/sqm
CGW	Casuarina glauca 'Shagpile'	Shagpile	0.25 x 1.5	140mm	8/sqm
Da	Dichondra argentea	Silver Falls	0.2 x 2	140mm	8/sqm
Dc	Dianella caerulea	Flax Lily	0.6 x 0.6	140mm	8/sqm
Ee	Echeveria elegans	Hens and Chickens	0.2 x 0.3	140mm	8/sqm
GRR	Grevillea 'Royal Rambler'	Royal Rambler	0.2 x 0.5	140mm	8/sqm
MY	Myoporum parvifolium 'Yareena'	Creeping Boobialla	0.3 x 3	140mm	8/sqm
WGB	Westringia fruticosa 'Grey Box'	Grey Box Coastal Rosemary	0.5 x 0.5	140mm	8/sqm
WLH	Westringia fruticosa 'Low Horizon'	Low Horizon	0.5 x 1	140mm	8/sqm

96-98 Ben Boyd Road Neutral Bay Landscape S4.56 Application





LANDSCAPE PLAN | ROOFTOPS SK2





96-98 BEN BOYD ROAD, NEUTRAL BAY DEVELOPMENT APPLICATION



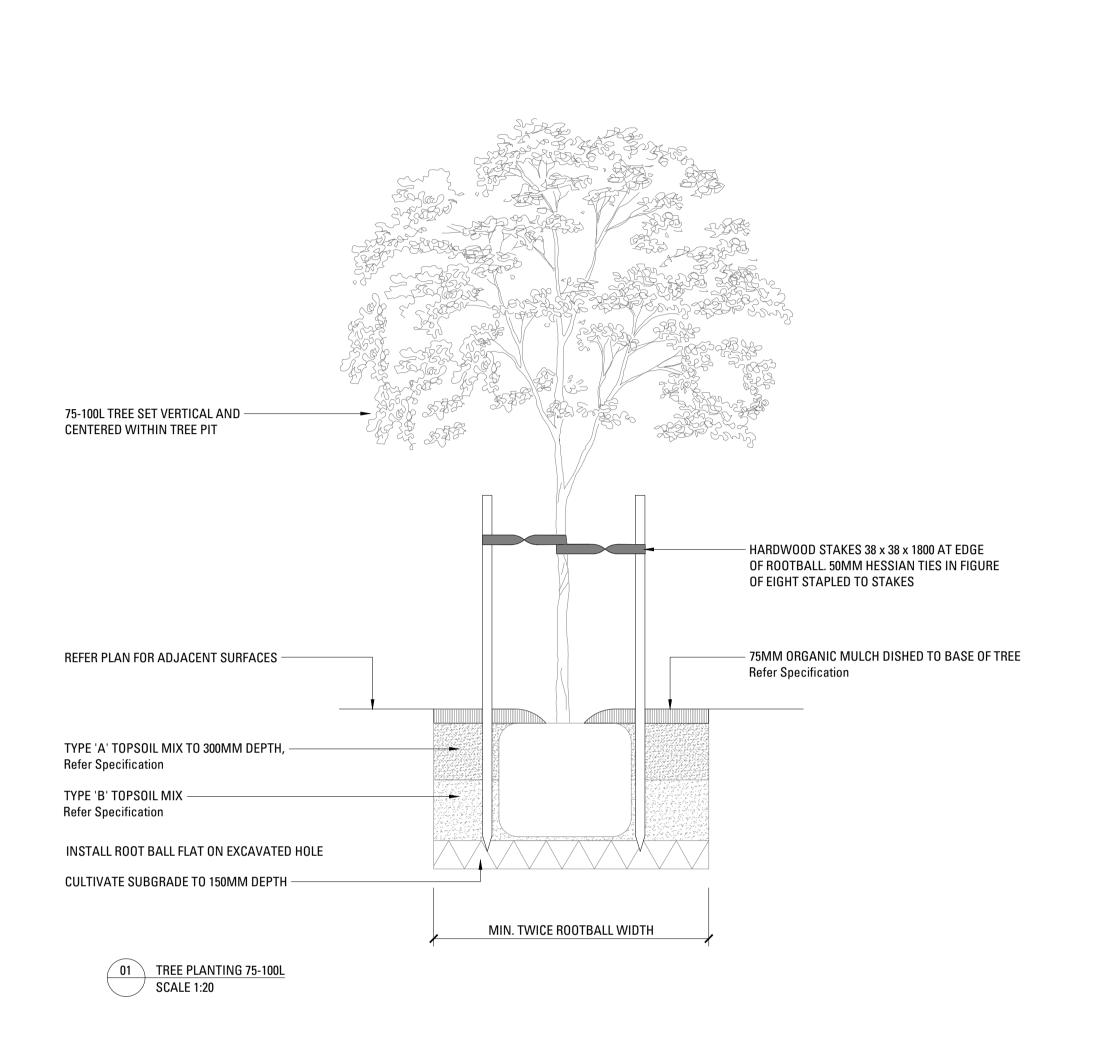
CLIENT ARCHITECT

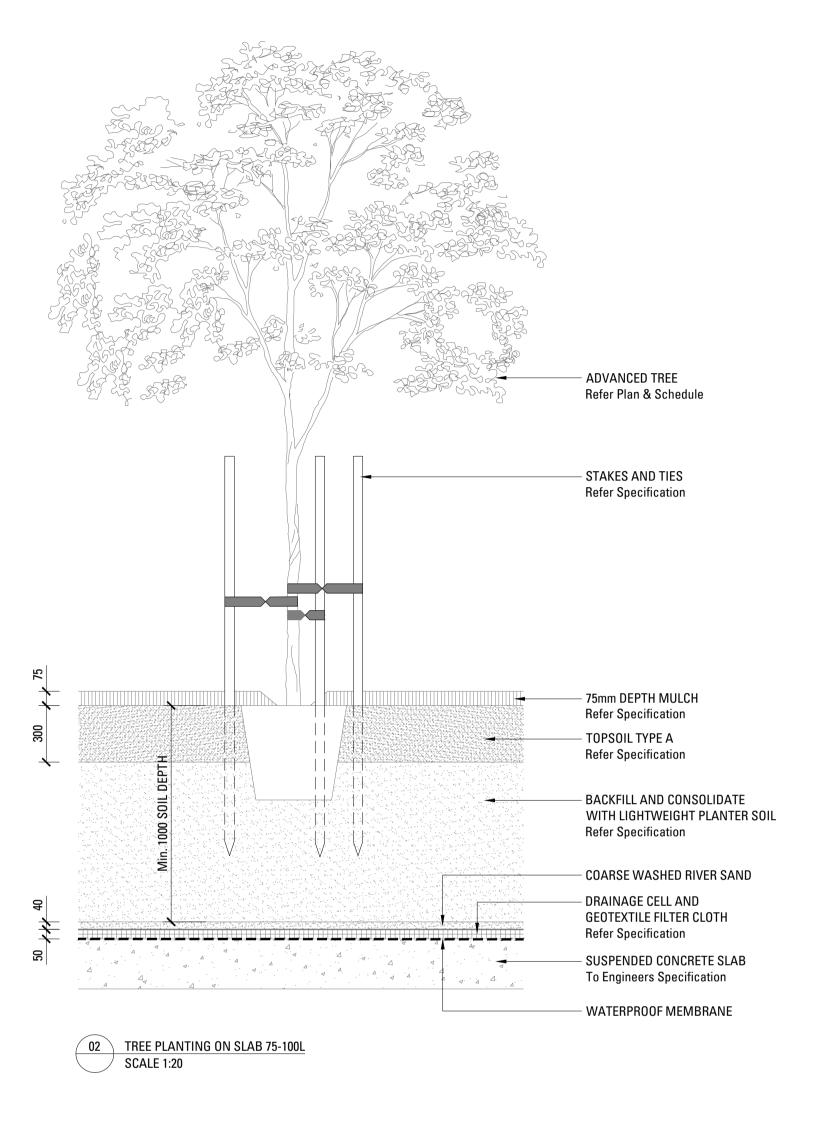
PREPARED BY Arcadia Landscape Architecture Aidop No.3 Pty Ltd MHNDU

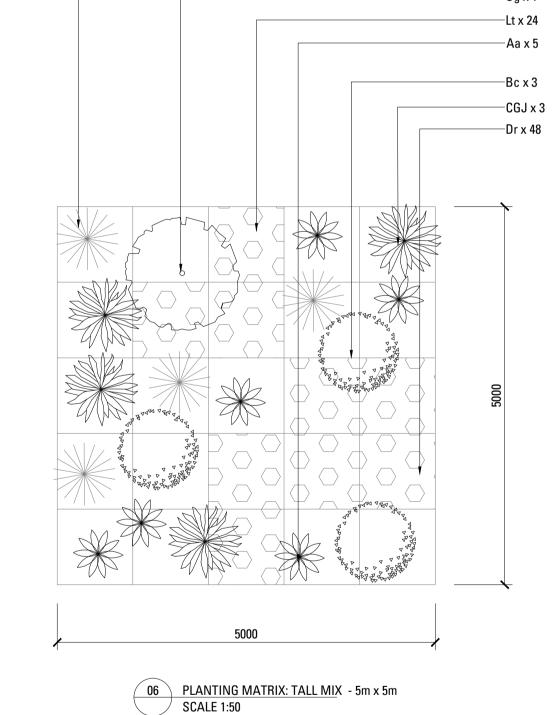
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Ensure compliance with the Building Code of Australia and all relevant Australian Standards and Authorities LANDSCAPE DETAILS
SK3







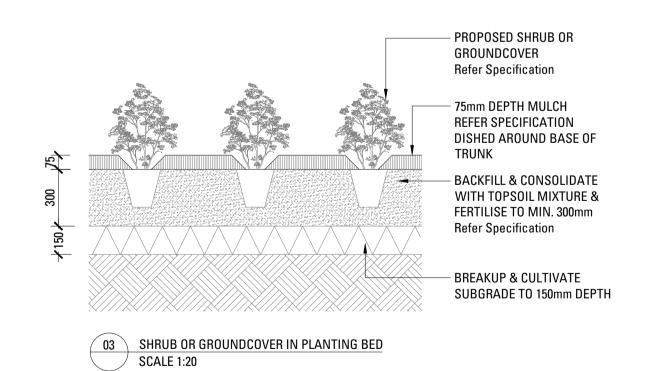
PROPOSED TURF
Refer Specification

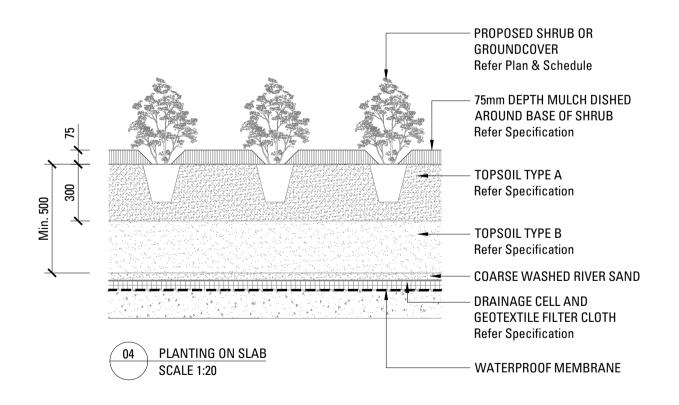
Refer Specification

TO 150mm DEPTH

05 TURF ON GRADE SCALE 1:10

BREAK UP & CULTIVATE SUBGRADE







96-98 BEN BOYD ROAD, NEUTRAL BAY DEVELOPMENT APPLICATION

PREPARED BY Arcadia Landscape Architecture
CLIENT Aidop No.3 Pty Ltd
ARCHITECT MHNDU

DATE 12.04.2023 SCALE As Shown @ A1 ISSUE G

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DESIGN STATEMENT BY THE CONSULTANT

PROJECT: Residential Development - 96-98 Ben Boyd Road, Neutral Bay

DISCIPLINE: Landscape Architecture

SUBJECT PREMISES: 96-98 Ben Boyd Road Neutral Bay, Sydney NSW

DEVELOPMENT REFERENCE NO: DA 86/22

LANDSCAPE ARCHITECTS: Arcadia Landscape Architecture Pty Ltd.

ABN: 83 148 994 870

To whom it may concern,

As the contracted Landscape Architect, Arcadia has prepared this letter of support to accompany the proposed S4.56 Modification Application for 96-98 Ben Boyd Road, Neutral Bay which seeks to modify the approved architectural design.

The modifications proposed in this application include changes to the basement profile, including reconfiguration and reallocation of car parking spaces, storage areas and fire egress pathway which will result in minor adjustments to the perimeter landscape planter beds located above the basement along the northern & southern boundary. The impact on the approved landscape design is negligible and the approved high quality landscaped setting will remain unchanged.

As illustrated below in Section E of the landscape S4.56 Application, the perimeter landscaped areas at Level O1, adjoining units 1.02 and 1.03, will remain sited over a substantial amount of engineered deep soil. This engineered deep soil zone provides 60m2 of soil at a total potential depth of 6.2m, for a total of 320m3 of potential soil volume. The trees and landscaping in this area are also able to access additional soil depth on podium beyond the pocket of engineered deep soil. This allows for provision of up to 106m3 for each of the 3 medium sized native trees proposed to this zone, which is well in excess of the 35m3 minimum requirement per tree by industry best practice guidelines such as the Apartment Design Guide Part 4, and the Sydney Landscape Code Volume 2.



Arcadia Landscape Architecture Pty Ltd

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Based on these considerations, Arcadia supports the minor modification to the basement proposed in this application.

Yours Faithfully - For Arcadia Landscape Architecture Pty Ltd.

Alex Longley Principal

Max forgery

12th April 2023