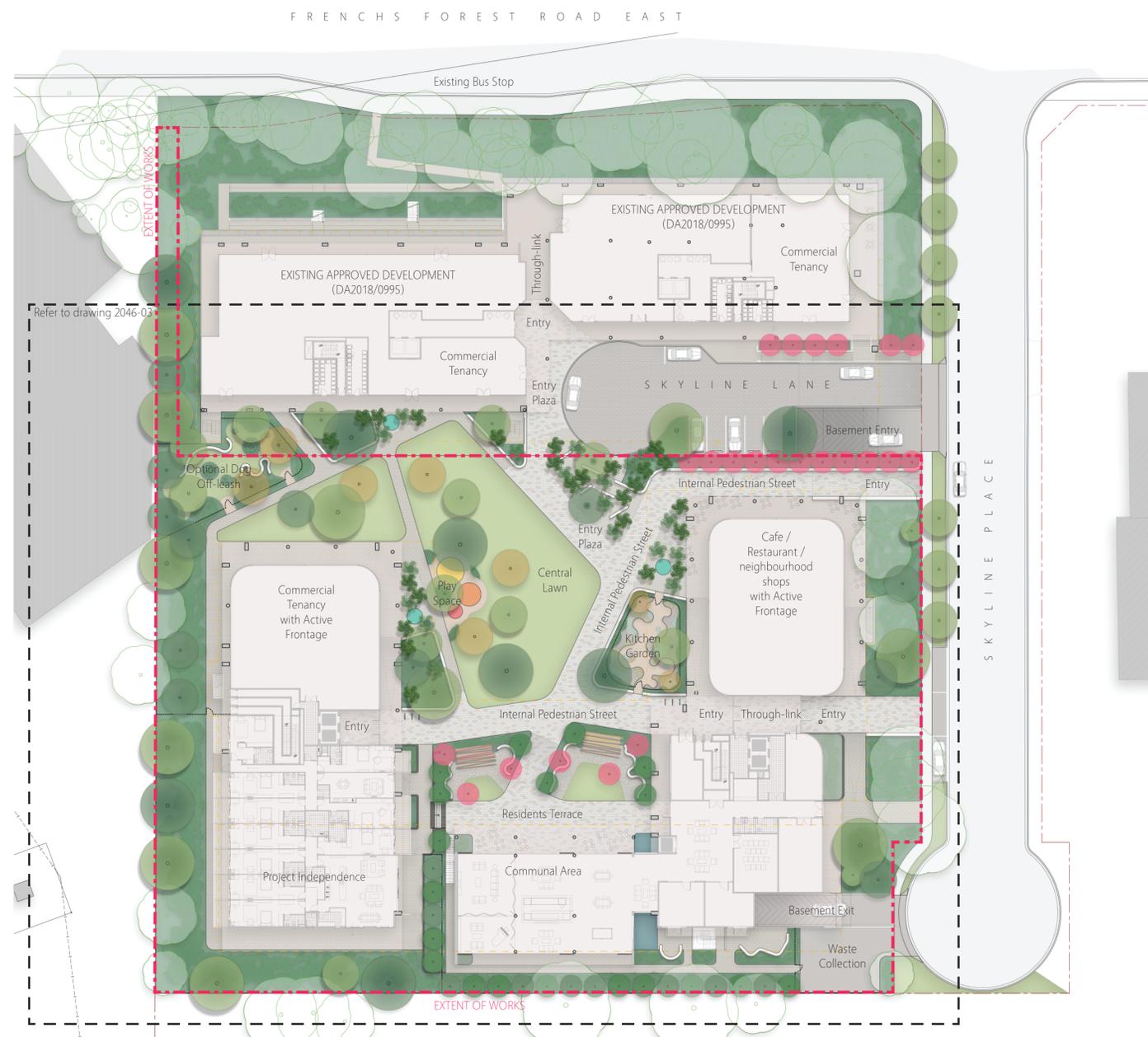


'Jardins' Seniors Living Frenchs Forest | Landscape DA Package

5 Skyline Place, Frenchs Forest NSW 2086



Site plan - Extent of Landscape DA Works

Drawing register:

Drawing No.:	Drawing title:	Issue:
2046-01	Titlesheet: Drawing Register, General Notes & Extent of Works Plan	A
2046-02	Design Statement, Design Principles, Location Plan	A
2046-03	Design Intent Diagrams	A
2046-04	Overall Site Plan	A
2046-05	Landscape DA Plan 1 of 2 (Groundfloor)	A
2046-06	Landscape DA Plan 2 of 2 (Roof Terrace)	A
2046-07	Sectional Elevation A, Sectional Elevation B	A
2046-08	Sectional Elevation C, NSW RFS Asset Protection Zone Requirements	A
2046-09	-	A
2046-10	Planting DA Plan 1 of 2 Building Surrounds & Level 6 Terrace	A
2046-11	Planting DA Plan 2 of 2 Buffer Zones	A
2046-12	Plant Schedule 1 of 2 Building Surrounds & Level 6 Terrace	A
2046-13	Plant Schedule 2 of 2 Buffer Zones	A

Project information:

Client:	Platino Properties
Site:	5 Skyline Place, Frenchs Forest NSW 2086 SP49558
LGA:	Northern Beaches Council
Landscape architect:	Paddock Studio
Architect:	PA Studio
Consulting architect:	Matthew Pullinger Architects
Wayfinding strategy: PI	MAAT Studio
Arborist:	Naturally Trees
Surveyor:	Chadwick Cheng Consulting Surveyors
Traffic consultant:	Varga Traffic Planning
Civil engineer:	ING Consulting Engineers
Access consultant:	Code Performance
Bushfire consultant:	Building Code & Bushfire Hazard Solutions
Geotechnical engineer:	Douglas Partners
Operational PoM:	Zinnia
Sustainability consultant:	Northrop

General notes:

- + Not for construction or pricing.
- + Subject to detailed design and documentation.
- + Subject to Council approvals.
- + Refer to 'PA Architects' documentation for all building works.
- + Refer to engineer documentation for all external services, including stormwater drainage, lighting, hydraulic, mechanical etc.
- + All landscape structures subject to detailed design and engineering design, including fences, walls, pavements, water ponds, balustrades, furniture, shade structures, handrails, signage etc.
- + Planting subject to availability at time of tender and construction.
- + Construction works to include sediment and erosion control fencing along lower boundary to ensure all sediment runoff contained on-site.

Design Statement

'Jardins Frenchs Forest' will create an active and vibrant senior's community within a lush bushland setting.

An internal shared-use laneway (Skyline Lane) provides a centralised 'street address' for the precinct within a high-quality public realm. This shared-use plaza includes a drop-off/pick-up area and short-term parking for residents and visitors.

The design incorporates a pedestrian circulation network that does not rely on the covered curtilage of the ground floor buildings. Rather, the primary entry to the precinct is centralised adjacent to the driveway entry, via a generous width, pedestrian orientated, open to the sky 'street' that leads through to the central entry plaza and shared-use laneway. From here, residents and visitors can navigate to the clearly defined building entries located around the central lawn. The area adjacent to building entries has been kept deliberately open and decluttered to ensure clear sightlines are maintained throughout the precinct, particularly from the precinct entry and 'entry plaza'. All building entries adjoin the central public open space. Site through-links provide secondary access from Skyline Place and also to Frenchs Forest Road East along the northern boundary.

A wayfinding strategy has been developed in conjunction with the revised landscape design (refer to MAAT documentation). The wayfinding strategy information is organized in a hierarchical manner to assist in creating a legible wayfinding experience, integrated through positioning and materials with the precinct landscape. Where possible sign forms will be applied or attached directly to the building form, or if freestanding, located in garden beds to keep pathways clear. These will be augmented by interpretive and placemaking opportunities that animate the residents experience and usage of the central courtyard and broader public domain. These include pedestrian-scaled placemaking interventions, such as feature sculptural shade structures, public domain furniture or play spaces, in addition to the use of feature vegetation, such as the 'palm groves' located adjacent to active use areas.

The central courtyard and garden spaces will include a mixture of passive and active use destinations that will activate the edges of the central lawn area and contribute to the liveability and amenity of the precinct. The central courtyard area is decluttered, with activity located towards the edges. This includes outdoor fitness stations, a small play space, a pathway circuit around the lawn and a fenced dog off-leash area. Additional communal spaces for residents are located within the upper terrace and will include external spaces to compliment the internal common areas. Groundfloor commercial tenancies, such as a café, restaurant or retail space, will activate the building surrounds through areas of outdoor dining.

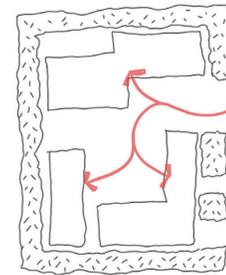
The design enhances the bushland setting, provided by the Garigal National Park, the Wakehurst Parkway wildlife corridor and the Frenchs Forest landscaped road setbacks, through endemic buffer planting areas within a generous, deep soil setback along the western, southern and eastern boundaries. The species selection has been derived from the Northern Beaches Council native species list for the Frenchs Forest Ward. These planted buffer zones include the retention of significant canopy trees.

The bushland character extends through to the central courtyard with large native canopy trees, clusters of native palms and understorey planting, grounding the development within its bushland setting. The mixture of tall native palm groves and groupings of large canopy trees will 'green' the central courtyard and provide scale and separation between the new apartment buildings.

The planting within direct proximity to the building surrounds and communal terraces is residential in scale and includes a variety of robust, low maintenance indigenous and non-invasive exotics that will provide interest through form, texture and variation in seasonal colour.

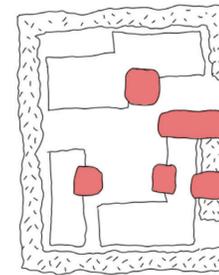
A 'kitchen garden' is proposed within the central courtyard space that will provide residents a space to grow and tend to perennial productive plantings. This will be incorporated within a larger, permanent garden area to integrate it with the broader public domain. A secondary productive garden located on the level 6 terrace will compliment this and provide residents with an additional area for productive plantings.

Design Principles



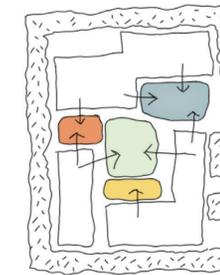
Provide legible access:

- + Provide a centralised shared use 'street address' for the precinct within a high-quality public realm.
- + Establish a legible pedestrian circulation network that connects the laneway/entry plaza to the broader public realm and building lobbies.



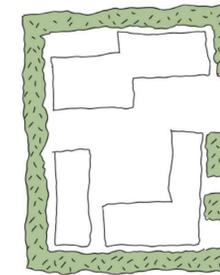
Ensure legible entries:

- + Ensure all building entries are clearly defined and adjoin a public open space.
- + Ensure clear sightlines are maintained between the precinct entry, 'entry plaza' and the building entries.



Provide a mixture of activity:

- + The central courtyard and garden spaces are essential to the liveability and amenity of the precinct and should provide a mixture of uses that cater for the residents and visitors.
- + Provide a variety of passive and active use destinations that will contribute to a finer grain public domain.



Enhance the bushland setting:

- + Enhance the bushland setting provided by the Garigal National Park, the Wakehurst Parkway wildlife corridor and the Frenchs Forest landscaped road setbacks by providing endemic planting in deep soil setbacks at boundaries.
- + Provide a mix of internal garden areas at the residential scale, including productive gardens.

Location Plan



Legend:

- Project site.
- Existing commercial and retail.
- Main arterials & transport routes.

Image source: Google 2019.



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Not for pricing or construction. Drawing to be read in conjunction with all relevant project and consultant documentation.

Issue: DRAFT A
Date: 25.05.21
Reason: For Client Review For DA Submission

Reviewed by: DW
DW

Project: 'Jardins' Frenchs Forest
5 Skyline Place Frenchs Forest NSW 2086
Client: Platino Properties

Title: Design Statement
Design Principles
Location Plan

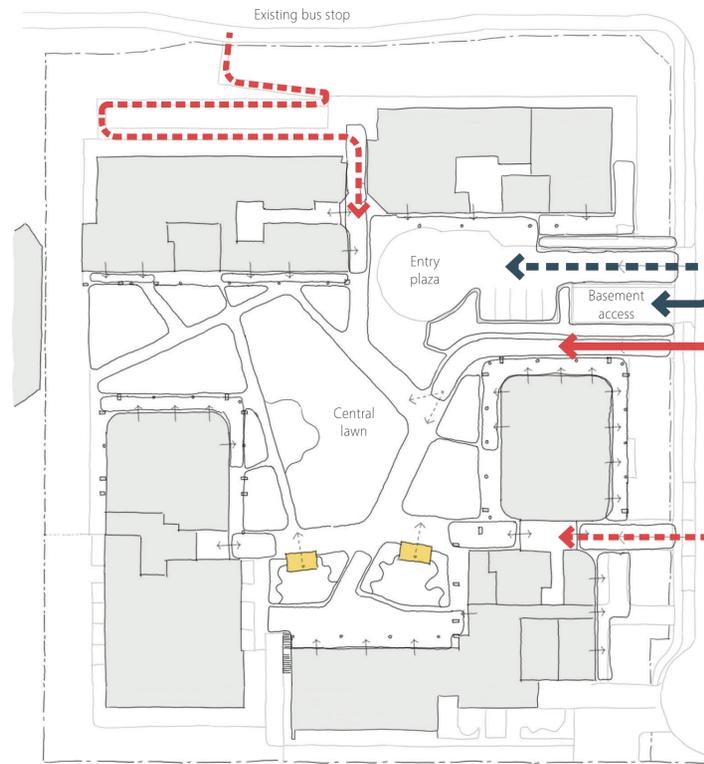
Title: 2046
Date: 09.06.2021
Scale: N/A @ A1

Drawing: 2046-02
Issue: A



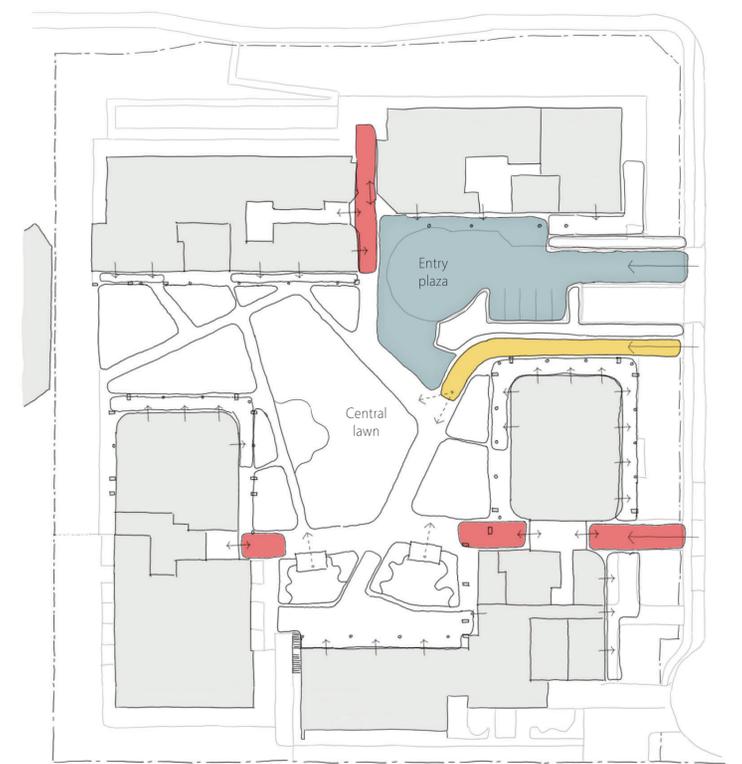
Legible access into the precinct

- Centralised pedestrian access via a clearly delineated, open to the sky pedestrian 'street'.
- - - Secondary pedestrian access via through-links of the buildings.
- - - Vehicle access to the shared use laneway for drop-off / pick-up, short-term parking and emergency services.
- Vehicle access to the basement for residents, visitors, commercial tenancies and services.



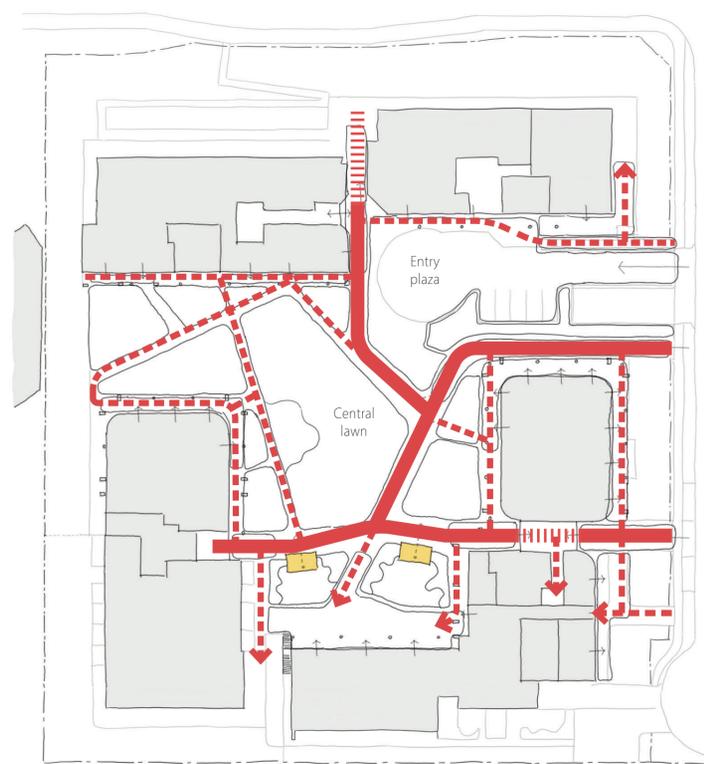
Legible entries into the precinct

- Primary, centralised pedestrian entry, open to the sky.
- Shared-use laneway and entry plaza, for drop-off / pick-up and short-term parking.
- Legible entries to the building lobbies.



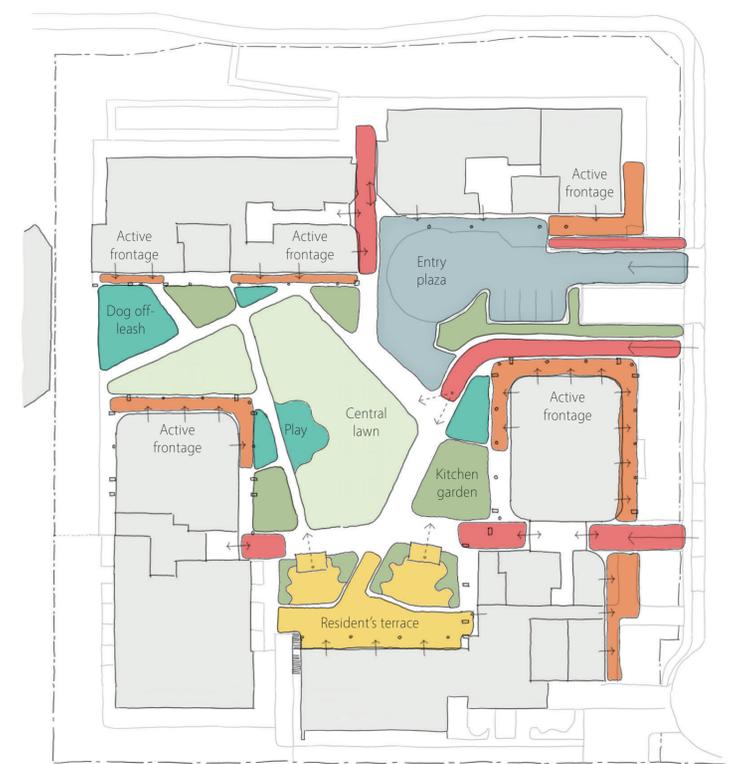
Legible access within the precinct

- Primary pedestrian internal 'street'.
- - - Secondary pedestrian circulation.
- ||||| Through-links.
- Placemaking elements within the landscape, such as sculptural feature shade structures, to aid in wayfinding.

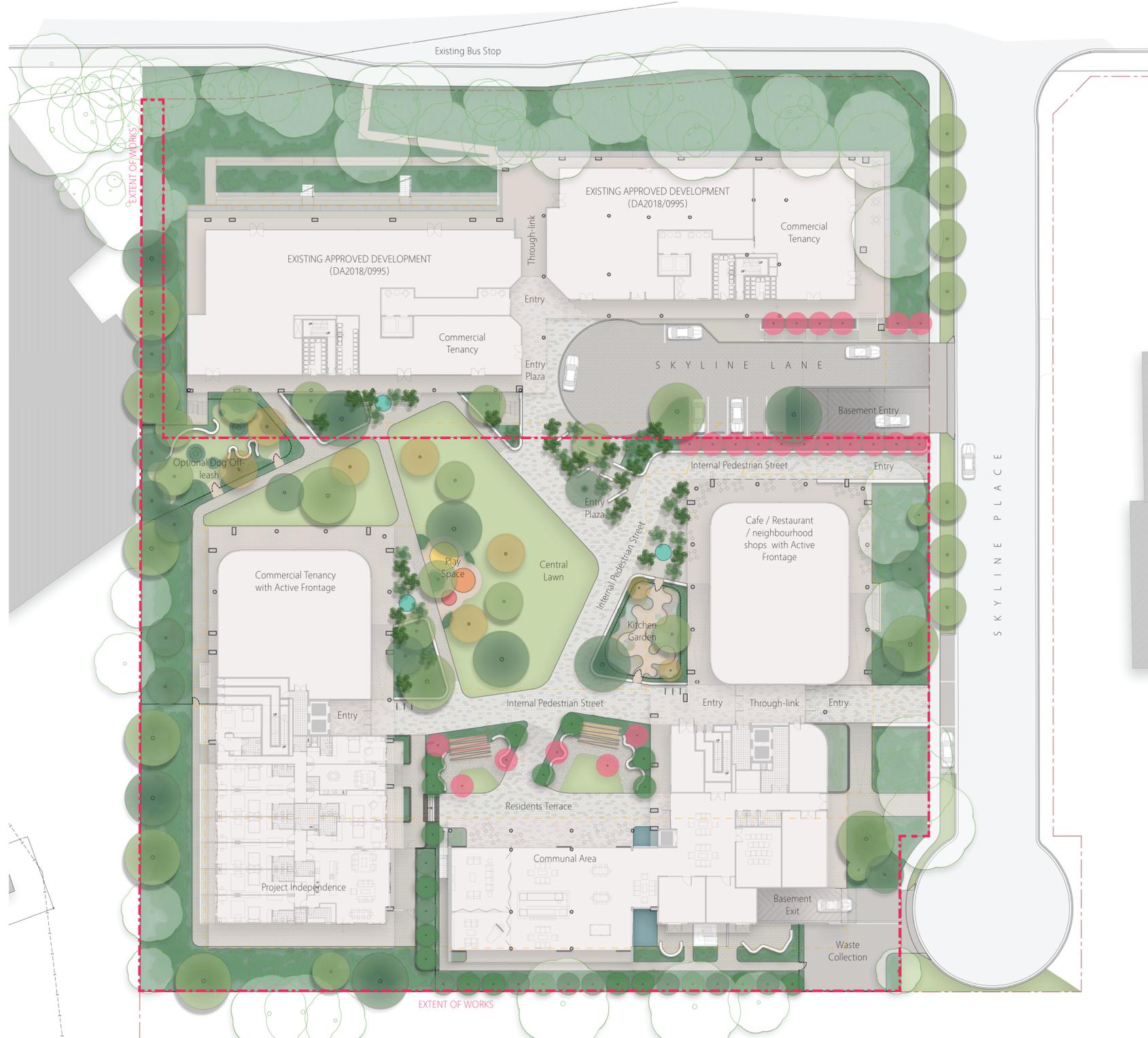


Provide a variety of uses

- Legible entries into the precinct and to building lobbies.
- Shared-use laneway and entry plaza for the precinct.
- Active frontage to groundfloor commercial tenancies, such as cafes, restaurants or retail.
- Active use areas, such as fitness stations, play spaces and an enclosed dog off-leash area.
- Resident's communal recreation spaces.
- New central lawn areas for passive recreation.
- New garden areas to the building surrounds.



FRENCHS FOREST ROAD EAST



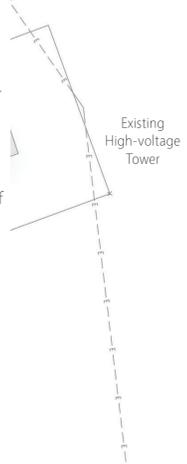
Legend:

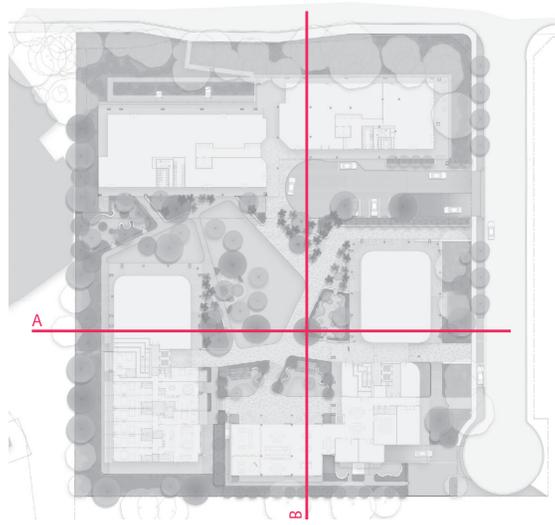
- — Extent of landscape works.
- - - Property boundary.
- 156.500 Proposed levels, to be read in conjunction with architectural documentation.
- New mass planted garden areas with organic soil and mulch (refer to planting plans 2046-10 and 2046-11).
- New grassed areas with turf underlay (refer to planting plans 2046-10).
- 1 Pavement Type 1 (internal pedestrian street): large format stone unit paving on mortar bedding and reinforced concrete base slab. Light coloured stone.
- 2 Pavement Type 2 (secondary pedestrian pathways): large format stone unit paving on mortar bedding and reinforced concrete base slab. Darker coloured stone.
- 3 Pavement Type 3 (secondary pedestrian pathways): cobble stone paving on mortar bedding and reinforced concrete base slab. Darker coloured stone.
- 4 Pavement Type 4 (service areas): reinforced concrete with lightly exposed aggregate finish and full depth coloured pigment.
- 5 Primary pedestrian entry to the precinct. A wide open to the sky pathway with avenue of feature flowering trees. Low concrete seating delineate entry along length. Precinct signage and wayfinding signage included at entry.
- 6 Entry Plaza - a large open public realm that allows for an internal 'street address'. The Entry Plaza includes large canopy shade trees and a palm grove located within high quality public realm. Public domain furniture, including feature seating, bike racks and signage.
- 7 Shared-use internal laneway - 'Skyline Lane' - provides an internal 'street address' and allows for drop-off, pick-up, short-term parking and emergency services access. Area finish with stone unit paving. Area not part of DA works - already approved under an existing DA approval (DA2018/0995).
- 8 Existing basement access to cater for both entire precinct. Area not part of DA works - already approved under an existing DA approval (DA2018/0995).
- 9 Seating Walls 1: Feature precast concrete curved seating elements, light-coloured finish to contrast paving, planting and to form a feature within the landscape. Walls provide seating and also retain garden areas.
- 10 Large open central lawn area provides a central green space for residents and visitors for passive and active recreation. Large native canopy shade trees and deciduous trees scattered throughout lawn.
- 11 Informal play space located within the central lawn. Area includes proprietary play equipment (such as swings, rocker, spinners) in addition to informal nature play elements.
- 12 Active recreation hubs (outdoor fitness stations) located within a paved public area amongst palm groves.
- 13 Kitchen garden located within garden area to provide a space for residents to grow productive plants (primarily perennials) to compliment the Level 6 communal productive garden. Kitchen garden includes permanent planting to ensure it compliments the high-quality public realm. Garden to include a low fence and gate. Gardens located within raised planters, 900mm height.
- 14 Optional fenced dog off-leash area, including lawn area, mounds and native planting.
- 15 Bike racks located to building entries.
- 16 Residents upper terrace, including a large paved outdoor area and smaller gathering areas. Area provides for a flexible, multi-use space for residents.
- 17 Feature shade structure shelters within the residents communal area, including seating and table settings. Shelter structures form provide a placemaking element within the precinct - a place to meet other residents or visitors.
- 18 Entry to Project Independence.
- 19 Entry to building lobbies.
- 20 New short-term drop-off and pickup bays along Skyline Place adjacent to the secondary building access and through-link to the courtyard.
- 21 Short-term parking bays within Skyline Lane. Area not part of DA works - already approved under an existing DA approval (DA2018/0995).
- 22 Fence Type 1: 1.8m height metalwork fence along western and southern boundary and to enclose gardens.
- 23 Existing trees to be retained - refer to arborist report.
- 24 New planting to buffer zones along western, southern and eastern boundaries. Planting selection to utilise endemic species.
- 25 Waste collection and loading bay.
- 26 Extent of basement under courtyard (shown yellow dashed).
- 27 OSD tank located in basement - refer to engineer documentation.





- Legend:**
- Extent of landscape works.
 - Property boundary.
 - 156.500** Proposed levels, to be read in conjunction with architectural documentation.
 - New mass planted garden areas with organic soil and mulch (refer to planting plan 2046-10).
 - ① Raised podium planters to cater for productive plants and permanent gardens. Planters to be 1200mm height and form balustrade along edges of terrace.
 - ② Small feature shade trees provide shade and amenity to terrace.
 - ③ Permanent planting areas provide gardens for the communal terrace.
 - ④ Productive gardens are separated behind the primary part of the terrace.
 - ⑤ Pavement Type 2: large format stone unit paving on mortar bedding and reinforced concrete base slab. Light coloured stone.
 - ⑥ Gravel mulch to non-trafficable rooftops.





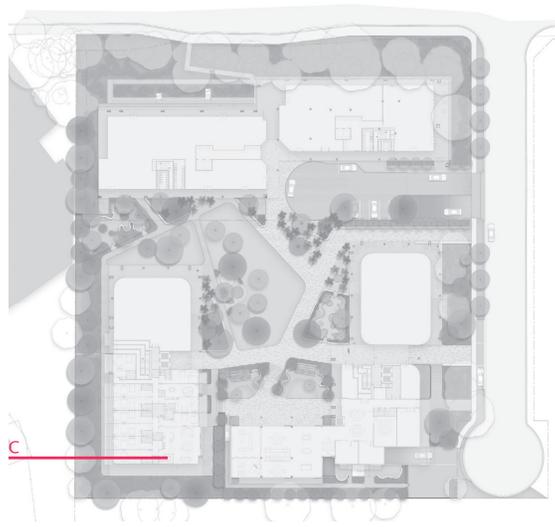
Key Plan
Scale: nts



Sectional Elevation A
Scale: 1:200 @A1

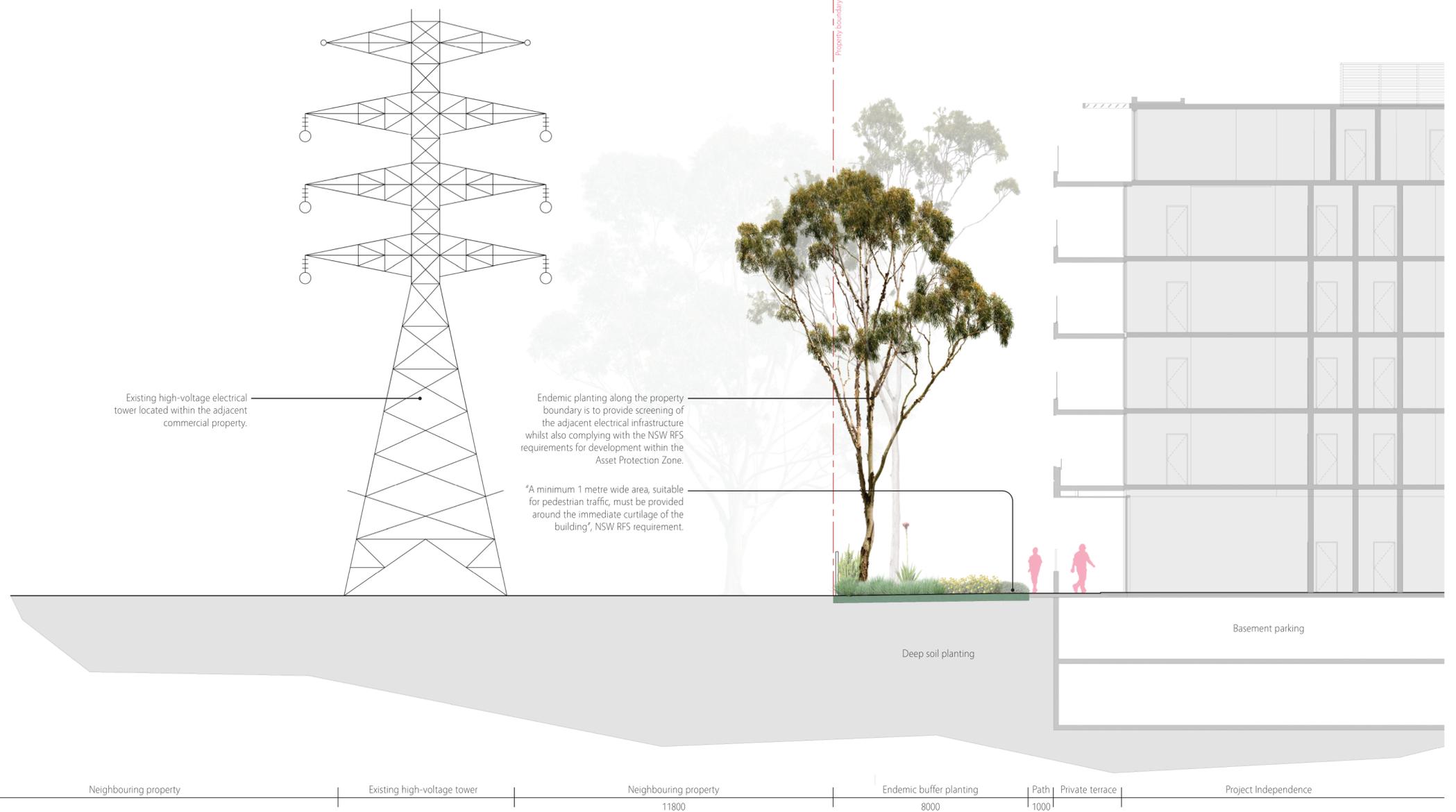


Sectional Elevation B
Scale: 1:200 @A1



Key Plan

Scale: nts



Sectional Elevation C

Scale: 1:100 @A1

NSW Rural Fire Service (RFS) Asset Protection Zone Requirements:

From the start of building works, and in perpetuity to ensure ongoing protection from the impact of bush fires, the entire property must be managed as an inner protection area (IPA) in accordance with the requirements of Appendix 4 of Planning for Bush Fire Protection 2019. When establishing and maintaining an IPA the following requirements apply:

- + tree canopy cover should be less than 15% at maturity;
- + trees at maturity should not touch or overhang the building;
- + lower limbs should be removed up to a height of 2m above the ground;
- + tree canopies should be separated by 2 to 5m;
- + preference should be given to smooth barked and evergreen trees;
- + large discontinuities or gaps in vegetation should be provided to slow down or break the progress of fire towards buildings;
- + shrubs should not be located under trees;
- + shrubs should not form more than 10% ground cover;
- + clumps of shrubs should be separated from exposed windows and doors by a distance of at least twice the height of the vegetation;
- + grass should be kept mown (as a guide grass should be kept to no more than 100mm in height); and
- + leaves and vegetation debris should be removed.

Landscaping Assessment:

Landscaping within the required asset protection zone must comply with Appendix 4 of Planning for Bush Fire Protection 2019. In this regard, the following principles are to be incorporated:

- + A minimum 1 metre wide area, suitable for pedestrian traffic, must be provided around the immediate curtilage of the building;
- + Planting is limited in the immediate vicinity of the building;
- + Planting does not provide a continuous canopy to the building (i.e. trees or shrubs are isolated or located in small clusters);
- + Landscape species are chosen to ensure tree canopy cover is less than 15% (IPA), and less than 30% (OPA) at maturity and trees do not touch or overhang buildings;
- + Avoid species with rough fibrous bark, or which retain/shed bark in long strips or retain dead material in their canopies;
- + Use smooth bark species of trees species which generally do not carry a fire up the bark into the crown;
- + Avoid planting of deciduous species that may increase fuel at surface/ ground level (i.e. leaf litter);

- + Avoid climbing species to walls and pergolas;
- + Locate combustible materials such as woodchips/mulch, flammable fuel stores away from the building;
- + Locate combustible structures such as garden sheds, pergolas and materials such as timber garden furniture away from the building; and
- + Low flammability vegetation species are used.

Extracted from the NSW Rural Fire Service Integrated Development Application (DA2021-0212 (CNR-19692)) Referral Response, dated 17.05.2021.



Planting Notes:

- + **Planting design subject to detailed design and documentation. Not for pricing or construction.**
- + Refer to drawing 2046-12 for the master plant schedule and plant images.
- + Planting to be designed in accordance with the NSW RFS Appendix 4 of 'Planning for Bush Fire Protection 2019'. Refer to requirements on drawing 2046-08.
- + All garden area subgrade to be cultivated prior to installation of new imported organic garden soil.
- + All garden areas to include 300mm depth of imported organic garden soil. All podium planters to be 1000mm minimum depth of imported organic garden soil.
- + All garden areas to be mulched with 75mm depth of imported organic garden mulch.
- + Species within mixed planting areas to be planted in groupings of 3-5.
- + Sub-surface drainage to all garden areas, connected to site stormwater.
- + All garden areas (excluding softscape works within the road verge) are to include a fully automated irrigation system connected to the sites rainwater harvesting system (subject to detailed design by a suitably qualified irrigation consultant).

Area A

The primary pedestrian arrival into the precinct. The garden areas include an avenue of feature deciduous trees leading to the entry plaza - a public domain with native palms and trees.

Garden area: 86 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
CAS gla Cl	18
CHR api	15
DIC arg SF	25
DIC rep	30
GRE lan MT	15
SEN man	15
VIO hed	30
ZEP can	35
Grasses, Ferns + Broad-leaved:	
ALC imp SP	9
ANI BG	15
ART cir	12
ASP aus	9
BLE gib	15
CLI min	12
DIA cae LJ	35
DOO asp	12
DOR exc	7
FIC nod	12
HEL psi A	12
LIR mus EG	45
LOM lon T	35
MOL cap	28
POA lab E	24
THE aus	24
Shrubs + Screening:	
BAN rob	12
COR alb	15
HAR vio	15
RHA ind SM	24
TEL spe	7
WES fru GB	24
XAN aus	7
Trees + Palms:	
ANG cos	1
ARC cun	3
COR cit	1
HOW for	3
LAG ind T	11
LIV aus	9

Area B

Garden area to the public courtyard surrounds. Area includes the productive 'kitchen garden' (productive species not listed but will be primarily perennials).

Garden area: 137 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	7
CAS gla Cl	15
CHR api	25
DIC arg SF	20
DIC rep	30
GRE lan MT	22
HIB sca	15
SEN man	12
VIO hed	30
ZEP can	28
Grasses, Ferns + Broad-leaved:	
ANI BG	9
ART cir	7
ASP aus	7
CLI min	7
DIA cae LJ	25
DOR exc	3
FIC nod	12
IMP cyl	15
LIR mus EG	15
LOM lon T	21
POA lab E	18
THE aus	15
Shrubs + Screening:	
BAN obl	5
BAN rob	5
COR alb	7
EPA alb	5
GRE lin	3
HAR vio	7
RHA ind SM	7
TEL spe	3
WES fru GB	15
XAN aus	5
Trees + Palms:	
ARC cun	1
EUC hae	1
HOW for	2
LAG ind T	2
LIV aus	5
TRI lau L	1

Area C

Garden area to the public courtyard surrounds. Lush gardens with native palms, shade trees and low understorey to maintain sight lines.

Garden area: 58 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	9
CAS gla Cl	10
CHR api	15
DIC arg SF	10
DIC rep	25
GRE lan MT	15
HIB sca	9
SEN man	26
VIO hed	25
ZEP can	15
Grasses, Ferns + Broad-leaved:	
ANI BG	6
ASP aus	5
BLE gib	7
CLI min	25
DOO asp	7
DOR exc	7
FIC nod	9
LOM lon	7
LOM lon T	25
MOL cap	5
POA lab E	25
THE aus	9
Shrubs + Screening:	
BAN obl	3
BAN rob	3
COR alb	5
HAR vio	5
TEL spe	3
RHA ind SM	20
XAN aus	5
Trees + Palms:	
ANG cos	1
ARC cun	1
COR cit	1
HOW for	2
LIV aus	6
TRI lau L	1

Area D

Lush garden to the resident's communal terrace area. A mixture of native and non-evasive exotics within a residential character and scale.

Garden area: 81 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	7
CAS gla Cl	20
CHR api	20
DIC arg SF	25
DIC rep	20
GRE lan MT	15
HIB sca	12
SEN man	20
VIO hed	25
ZEP can	30
Grasses, Ferns + Broad-leaved:	
ALC imp SP	6
ART cir	12
ASP aus	18
BLE gib	18
CLI min	24
CTE set	16
DIA cae LJ	20
DOO asp	12
HEL psi A	30
LIR mus EG	30
LOM lon T	24
MOL cap	35
Shrubs + Screening:	
ALP zer	12
COR alb	8
HAR vio	8
RHA ind SM	10
SYZ aus R	4
VIB odo EL	4
WES fru GB	28
XAN aus	5
Trees:	
ELA eum	4
LAG ind T	6
TRI lau L	3

Area E

Lush gardens to the shaded building surrounds, primarily located within podium planters.

Garden area: 94 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
CAS gla Cl	15
DIC arg SF	45
DIC rep	45
HIB sca	12
SEN man	25
VIO hed	45
ZEP can	48
Grasses, Ferns + Broad-leaved:	
ALC imp SP	12
ALO mac	12
ART cir	22
ASP aus	15
BLE gib	30
CLI min	30
CTE set	24
DIA cae LJ	45
DOO asp	30
FIC nod	28
HEL psi A	30
LIR mus EG	30
LOM lon T	24
MOL cap	35
Shrubs + Screening:	
ALP zer	25
RHA ind SM	25
SYZ aus R	20
THY max	15
VIB odo EL	20
Trees + Palms:	
ARC cun	2
ELA eum	4
HOW for	2

Area F

Large central lawn area with canopy shade trees and deciduous trees within the lawn. Small garden areas located around the play space.

Garden area: 20 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	6
CAS gla Cl	6
CHR api	12
DIC arg SF	12
GRE lan MT	6
HIB sca	9
SEN man	6
VIO hed	18
ZEP can	15
Grasses, Ferns + Broad-leaved:	
ANI BG	6
DIA cae LJ	12
DOR exc	2
LOM lon T	12
POA lab E	12
Shrubs + Screening:	
BAN rob	3
COR alb	3
RHA ind SM	4
WES fru GB	12
LOM lon T	3
Trees:	
ANG cos	2
COR cit	1
EUC hae	2
GIN bil	4
TRI lau L	2

Area G

A garden area within the fenced dog off-leash area. A native-centric, hardy species mix to blend with the adjacent buffer planting zones.

Garden area: 88 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	12
CAS gla Cl	12
DIC arg SF	15
DIC rep	25
GRE lan MT	18
HIB sca	15
SEN man	12
VIO hed	25
ZEP can	15
Grasses, Ferns + Broad-leaved:	
ANI BG	7
ART cir	7
BLE gib	7
DIA cae LJ	45
DOO asp	12
DOR exc	5
FIC nod	28
IMP cyl	60
LIR mus EG	22
LOM lon	28
LOM lon T	32
MOL cap	15
POA lab E	28
THE aus	28
Shrubs + Screening:	
BAN obl	2
BAN rob	2
COR alb	5
EPA lon	3
GRE lin	2
HAR vio	5
RHA ind SM	12
TEL spe	7
WES fru GB	12
XAN aus	7
Trees:	
GIN bil	1
TRI lau L	1

Area H

Garden area to the level 6 communal terrace, within podium planters. This includes a productive communal garden (productive species not listed).

Garden area: 26 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
CAS gla Cl	8
DIC arg SF	12
SEN man	15
VIO hed	15
ZEP can	12
Grasses, Ferns + Broad-leaved:	
ALC imp SP	3
ART cir	7
CLI min	9
DIA cae LJ	12
HEL psi A	9
LIR mus EG	12
LOM lon T	12
MOL cap	15
POA lab E	12
DOR exc	5
Shrubs + Screening:	
RHA ind SM	7
SYZ aus R	8
WES fru GB	12
Trees:	
TRI lau L	4



Area I

Planted buffers along the western and southern boundary, utilising a mixture of 100% endemic species (species selection from Northern Beaches Council plant list for Frenchs Forest Ward).

Garden area: 959 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	280
CIS ant	240
DIC rep	370
GLY cla	120
HIB sca	180
KEN rub	120
VIO hed	370
Grasses + Ferns:	
ADI aet	180
CYM ref	180
DIA cae	420
DOO asp	180
FIC nod	280
LOM lon	420
THE aus	280
Shrubs + Screening:	
ACA lin	45
ACA lon	58
BAN eri	55
BAN obl	85
BAN rob	85
BAN spi	60
DOD tri	45
EPA lon	90
GOO ova	54
GRE lin	84
GRE spe	60
TEL spe	58
XAN aus	60
Trees:	
ANG cos	6
BAN ser	4
CAL ser	3
CER ape	3
EUC hae	4
TRI lau	15

Area J

Planted buffer along the eastern boundary, utilising a mixture of 100% endemic species (species selection from Northern Beaches Council plant list for Frenchs Forest Ward).

Garden area: 345 m²

Plant Code:	Quantity:
Groundcovers + Climbers:	
ACT hel	45
CIS ant	50
DIC rep	180
HIB sca	80
VIO hed	180
Grasses + Ferns:	
ADI aet	54
CYM ref	85
DIA cae	120
DOO asp	65
FIC nod	65
LOM lon	120
THE aus	80
Shrubs + Screening:	
ACA lin	21
BAN eri	24
BAN obl	15
BAN rob	12
BAN spi	12
EPA lon	15
GOO ova	15
GRE lin	27
GRE spe	18
TEL spe	24
XAN aus	24
Trees:	
ANG cos	2
BAN ser	1
CAL ser	1
EUC hae	1
TRI lau	2

Planting Notes:

- + **Planting design subject to detailed design and documentation. Not for pricing or construction.**
- + Refer to drawing 2046-13 for the master plant schedule and plant images.
- + Species selection from the Northern Beaches Council plant list for the Frenchs Forest Ward.
- + Planting to be designed in accordance with the NSW RFS Appendix 4 of 'Planning for Bush Fire Protection 2019'. Refer to requirements on drawing 2046-08.
- + All buffer planting garden areas are within deep soil areas.
- + All garden area subgrade to be cultivated prior to installation of new imported organic garden soil.
- + All garden areas to include 300mm depth of imported organic garden soil.
- + All garden areas to be mulched with 75mm depth of imported organic garden mulch.
- + Species within mixed planting areas to be planted in groupings of 3-5.
- + Sub-surface drainage to all garden areas, connected to site stormwater.
- + All garden areas (excluding softscape works within the road verge) are to include a fully automated irrigation system connected to the sites rainwater harvesting system (subject to detailed design by a suitably qualified irrigation consultant).

Plant Schedule - Building Surrounds & Level 6 Terrace:
(to be read in conjunction with Planting Plan 2046-10)

Code	Scientific name:	Common name:	Pot size:	Mature height & spread*:	Planting density:	Quantity:
Groundcovers + Climbers:						
ACT hel	Actinotus helianthi	Flannel Flower	140mm Pot	0.5 x 0.5m	4 /m2	41
CAS gla CI	Casuarina glauca 'Cousin It'	Sheoak	140mm Pot	0.3 x 0.3m	4 /m2	104
CHR api	Chrysocephalum apiculatum	Yellow Buttons	140mm Pot	0.2 x 0.2m	8 /m2	87
DIC arg SF	Dichondra argentea 'Silver Falls'	Silver Falls	140mm Pot	0.1 x 0.3m	8 /m2	164
DIC rep	Dichondra repens	Kidney Groundcover	Tubestock	0.1 x 0.3m	8 /m2	175
GRE lan MT	Grevillea lanigera 'Mt Tamboritha'	Spider Flower	140mm Pot	0.1 x 0.3m	4 /m2	91
HIB sca	Hibbertia scandens	Guinea Flower	140mm Pot	0.4 x 1m	4 /m2	72
SEN man	Senecio mandraliscae	Blue Chalksticks	140mm Pot	0.3 x 0.6m	4 /m2	131
VIO hed	Viola hederacea	Native Violet	Tubestock	0.1 x 0.3m	8 /m2	213
ZEP can	Zephyranthes candida	White Wind Flower	140mm Pot	0.2 x 0.2m	8 /m2	198
Grasses, Ferns + Broad-leaved:						
ALC imp SP	Alcantarea imperialis 'Silver Plum'	Bromeliad	300mm Pot	0.5 x 0.5m	1 /m2	30
ALO mac	Alocasia macrorrhiza	Giant Taro	300mm Pot	1.5 x 1m	2 /m2	12
ANI BG	Anigozanthos 'Bush Gold'	Kangaroo Paw	140mm Pot	0.5 x 0.5m	4 /m2	43
ART cir	Arthropodium cirratum	New Zealand Rock Lilly	140mm Pot	0.6 x 0.6m	4 /m2	67
ASP aus	Asplenium australasicum	Birds Nest Fern	200mm Pot	1 x 1m	1 /m2	29
BLE gib	Blechnum gibbum	Silver Lady Fern	140mm Pot	0.4 x 0.4m	4 /m2	77
CLI min	Clivia miniata	Clivia	140mm Pot	0.4 x 0.4m	4 /m2	82
CTE set	Ctenanthe setosa 'Grey Star'		140mm Pot	1 x 0.5m	3 /m2	40
DIA cae LJ	Dianella caerulea 'Little Jess'	Blue Flax Lily	Tubestock	0.5 x 0.5m	6 /m2	219
DOO asp	Doodia aspera	Prickly Rasp Fern	140mm Pot	0.4 x 0.4m	6 /m2	73
DOR exc	Doryanthes excelsa	Gynea Lilly	200mm Pot	1.5 x 1m	1 /m2	30
FIC nod	Ficinia nodosa	Knobby Clubrush	Tubestock	0.6 x 0.6m	4 /m2	101
HEL psi A	Heliconia psittacorum L.f. cv. 'Andromeda'	Heliconia (Orange)	200mm Pot	1 x 0.5m	3 /m2	73
IMP cyl	Imperata cylindrica	Blady Grass	Tubestock	0.6 x 0.6m	4 /m2	75
LIR mus EG	Liriope muscari 'Evergreen Giant'	Giant Mondo	140mm Pot	0.6 x 0.6m	4 /m2	159
LOM lon	Lomandra longifolia	Mat-rush	Tubestock	0.9 x 0.9m	4 /m2	35
LOM lon T	Lomandra longifolia 'Tanika'	Lomandra Tanika	140mm Pot	0.6 x 0.6m	4 /m2	179
MOL cap	Molineria capitalata	Weevil Lilly	200mm Pot	1 x 0.5m	3 /m2	128
POA lab E	Poa labillardieri 'Eskdale'	Common Tussock Grass	140mm Pot	0.5 x 0.5m	4 /m2	134
THE aus	Themeda australis	Kangaroo Grass	Tubestock	0.5 x 0.5m	4 /m2	76
Shrubs + Screening:						
ALP zer	Alpinia zerumbet	Shell Ginger	200mm Pot	1.8 x 1m	2 /m2	37
BAN obl	Banksia oblongifolia	Fern-leaved Banksia	200mm Pot	1.5 x 1.5m	1 /m2	10
BAN rob	Banksia robor	Swamp Banksia	200mm Pot	1.5 x 1.5m	1 /m2	25
COR alb	Correa alba	White Correa	200mm Pot	1.5 x 1m	2 /m2	43
EPA lon	Epacris longiflora	Native Fuschia	200mm Pot	1.5 x 1.5m	1 /m2	8
GRE lin	Grevillea linearifolia	White Spider Flower	200mm Pot	1-2 x 2m	1 /m2	5
HAR vio	Hardenbergia violacea	Purple Coral Pea	200mm Pot	0.8 x 0.8m	3 /m2	40
RHA ind SM	Rhaphiolepis indica 'Snow Maiden'	Indian Hawthorn White	200mm Pot	0.8 x 0.8m	3 /m2	89
SYZ aus R	Syzygium australe 'Resilience'	Lilly Pilly	25L	2 x 1m	1 /m2	32
TEL spe	Telopea speciosissima	Waratah	200mm Pot	3 x 2m	1 /m2	20
THY max	Thysanolaena maxima	Tiger Grass	200mm Pot	2 x 1.5m	1 /m2	15
VIB odo EL	Viburnum odoratissimum 'Emerald Lustre'		25L	2 x 1m	1 /m2	24
WES fru GB	Westringia fruticosa 'Grey Box'	Compact Coastal Rosemary	140mm Pot	0.5 x 0.5m	4 /m2	123
XAN aus	Xanthorrhoea australis	Grass Tree	300mm Pot	2 x 1m	1 /m2	32
Trees + Palms:						
ANG cos	Angophora costata	Smooth- Barked Apple	75L	25 x 10m	-	4
ARC cun	Archontophoenix cunninghamiana	Bangalow Palm	Mix of 2-4m height	8 x 3m	-	7
COR cit	Corymbia citriodora	Lemon-scented Gum	75L	20 x 8m	-	3
ELA eum	Elaeocarpus eumundii	Quandong	75L	9 x 3m	-	8
EUC hae	Eucalyptus haemastoma	Scribbly Gum	75L	15 x 8m	-	3
GIN bil	Ginkgo biloba	Maidenhair tree	75L	12 x 8m	-	5
HOW for	Howea forsterana	Lord Howe Island Palm	Mix of 2-4m height	8 x 3m	-	9
LAG ind T	Lagerstroemia indica x fauriei 'Tuscarora (Hot Pink)'	Crepe Myrtle	75L	5 x 3m	-	19
LIV aus	Livistona australis	Cabbage Palm	Mix of 2-6m height	20 x 3m	-	20
TRI lau L	Tristaniaopsis laurina 'Luscious'	Water Gum	75L	8 x 4m	-	12
Turf:						
	Village Green 'Kikuyu'	-	-	-	-	779 m ²

Notes:

- + * Nominal height / spread at maturity - will vary based on maintenance regimes and site growing conditions.
- + Planting design subject to detailed design and documentation.
- + Species selection subject to availability at time of tendering and construction.



ACT hel: Actinotus helianthi Flannel Flower



CAS gla CI: Casuarina glauca 'Cousin It' Sheoak



CHR api: Chrysocephalum apiculatum Yellow Buttons



DIC arg SF: Dichondra argentea 'Silver Falls'



DIC rep: Dichondra repens Kidney Groundcover



GRE lan MT: Grevillea lanigera 'Mt Tamboritha' Spider Flower



HIB sca: Hibbertia scandens Guinea Flower



SEN man: Senecio mandraliscae Blue Chalksticks



VIO hed: Viola hederacea Native Violet



ZEP can: Zephyranthes candida White Wind Flower



ALC imp SP: Alcantarea imperialis 'Silver Plum'



ALO mac: Alocasia macrorrhiza Giant Taro



ANI BG: Anigozanthos 'Bush Gold' Kangaroo Paw



ART cir: Arthropodium cirratum NZ Rock Lilly



ASP aus: Asplenium australasicum Birds Nest Fern



BLE gib: Blechnum gibbum Silver Lady Fern



CLI min: Clivia miniata Clivia



CTE set: Ctenanthe setosa 'Grey Star'



DIA cae LJ: Dianella caerulea 'Little Jess' Blue Flax Lily



DOO asp: Doodia aspera Prickly Rasp Fern



DOR exc: Doryanthes excelsa Gynea Lilly



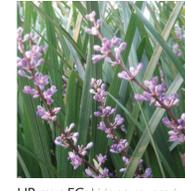
FIC nod: Ficinia nodosa Knobby Clubrush



HEL psi A: Heliconia psittacorum L.f. cv. Andromeda



IMP cyl: Imperata cylindrica Blady Grass



LIR mus EG: Liriope muscari 'Evergreen Giant' Giant mondo



LOM lon: Lomandra longifolia Mat-rush



LOM lon T: Lomandra longifolia 'Tanika'



MOL cap: Molineria capitalata Weevil Lilly



POA lab E: Poa labillardieri 'Eskdale' Common Tussock



THE aus: Themeda australis Kangaroo Grass



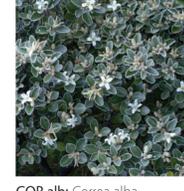
ALP zer: Alpinia zerumbet Shell Ginger



BAN obl: Banksia oblongifolia Fern-leaved Banksia



BAN rob: Banksia robor Swamp Banksia



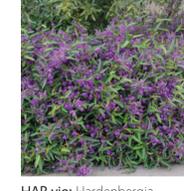
COR alb: Correa alba White Correa



EPA lon: Epacris longiflora Native Fuschia



GRE lin: Grevillea linearifolia White Spider Flower



HAR vio: Hardenbergia violacea Purple Coral Pea



RHA ind SM: Rhaphiolepis indica 'Snow Maiden'



SYZ aus R: Syzygium australe 'Resilience' Lilly Pilly



TEL spe: Telopea speciosissima Waratah



THY max: Thysanolaena maxima Tiger Grass



VIB odo EL: Viburnum odoratissimum 'Emerald Lustre'



WES fru GB: Westringia fruticosa 'Grey Box'



XAN aus: Xanthorrhoea australis Grass Tree



ANG cos: Angophora costata Smooth- Barked Apple



ARC cun: A. cunninghamiana Bangalow Palm



COR cit: Corymbia citriodora Lemon-scented Gum



ELA eum: Elaeocarpus eumundii Quandong



EUC hae: Eucalyptus haemastoma Scribbly Gum



GIN bil: Ginkgo biloba Maidenhair tree



HOW for: Howea forsterana Lord Howe Island Palm



LAG ind T: Lindica x fauriei 'Tuscarora' Crepe Myrtle



LIV aus: Livistona australis Cabbage Palm



TRI lau L: Tristaniaopsis laurina 'Luscious' Water Gum

Plant Schedule - Buffer Zones:
(to be read in conjunction with Planting Plan 2046-11)

Code	Scientific name:	Common name:	Pot size:	Mature height & spread*:	Planting density:	Quantity:
Groundcovers + Climbers:						
ACT hel	Actinotus helianthi	Flannel Flower	140mm Pot	0.5 x 0.5m	4 /m2	325
CIS ant	Cissus antarctica	Kangaroo Vine	Tubestock	0.3 x 0.6m	4 /m2	290
DIC rep	Dichondra repens	Kidney Groundcover	Tubestock	0.1 x 0.3m	8 /m2	550
GLY cla	Glycine clandestina	Love Creeper	140mm Pot	0.3 x 2m	4 /m2	120
HIB sca	Hibbertia scandens	Guinea Flower	140mm Pot	0.4 x 1m	4 /m2	260
KEN rub	Kennedia rubicundra	Dusky Coral Pea	140mm Pot	5 x 3m	4 /m2	120
VIO hed	Viola hederacea	Native Violet	Tubestock	0.1 x 0.3m	8 /m2	550
Grasses + Ferns:						
ADI aet	Adiantum aethiopicum	Common Maidenhair	140mm Pot	0.4 x 0.4m	6 /m2	234
CYM ref	Cymbopogon refractus	Barbed Wire Grass	Tubestock	1 x 1m	4 /m2	265
DIA cae	Dianella caerulea	Blue Flax Lily	Tubestock	0.5 x 0.5m	4 /m2	540
DOO asp	Doodia aspera	Prickly Rasp Fern	140mm Pot	0.4 x 0.4m	6 /m2	245
FIC nod	Ficinia nodosa	Knobby Clubrush	Tubestock	0.6 x 0.6m	4 /m2	345
LOM lon	Lomandra longifolia	Mat-rush	Tubestock	0.9 x 0.9m	4 /m2	540
THE aus	Themeda australis	Kangaroo Grass	Tubestock	0.5 x 0.5m	4 /m2	360
Shrubs + Small Trees:						
ACA lin	Acacia linifolia	Flax-leaved Wattle	140mm Pot	2-5 x 2-4m	1 /m2	66
ACA lon	Acacia longifolia	Sydney Golden Wattle	140mm Pot	4-6 x 2-4m	1 /m2	58
BAN eri	Banksia ericifolia	Heath-leaved Banksia	140mm Pot	2 x 2m	1 /m2	79
BAN obl	Banksia oblongifolia	Fern-leaved Banksia	140mm Pot	1.5 x 1.5m	1 /m2	100
BAN rob	Banksia robur	Swamp Banksia	140mm Pot	1.5 x 1.5m	1 /m2	97
BAN spi	Banksia spinulosa	Hairpin Banksia	140mm Pot	2 x 2m	1 /m2	72
DOD tri	Dodonaea triquetra	Common Hop-Bush	140mm Pot	3 x 2m	1 /m2	45
EPA lon	Epacris longiflora	Native Fuschia	140mm Pot	1.5 x 1.5m	1 /m2	105
GOO ova	Goodenia ovata	Hop Goodenia	140mm Pot	1 x 1-3m	1 /m2	69
GRE lin	Grevillea linearifolia	White Spider Flower	140mm Pot	1-2 x 2m	1 /m2	111
GRE spe	Grevillea speciosa	Red Spider Flower	140mm Pot	3 x 2m	1 /m2	78
TEL spe	Telopea speciosissima	Waratah	140mm Pot	3 x 2m	1 /m2	82
XAN aus	Xanthorrhoea australis	Grass Tree	140mm Pot	2 x 1m	1 /m2	84
Trees:						
ANG cos	Angophora costata	Smooth- Barked Apple	75L	25 x 10m	-	8
BAN ser	Banksia serrata	Old Man Banksia	75L	5-10 x 5m	-	5
CAL ser	Callicoma serratifolia	Black Wattle	75L	15 x 6m	-	4
CER ape	Ceratopetalum apetalum	Coachwood	75L	25 x 10m	-	3
EUC hae	Eucalyptus haemastoma	Scribbly Gum	75L	15 x 8m	-	5
TRI lau	Tristaniopsis laurina	Water Gum	75L	15 x 6m	-	17

Notes:

- + * Nominal height / spread at maturity - will vary based on maintenance regimes and site growing conditions.
- + Planting design subject to detailed design and documentation.
- + Species selection subject to availability at time of tendering and construction.



ACT hel: Actinotus helianthi
Flannel Flower



CIS ant: Cissus antarctica
Kangaroo Vine



DIC rep: Dichondra repens
Kidney Groundcover



GLY cla: Glycine clandestina
Love Creeper



HIB sca: Hibbertia scandens
Guinea Flower



KEN rub: Kennedia rubicundra
Dusky Coral Pea



VIO hed: Viola hederacea
Native Violet



ADI aet: Adiantum aethiopicum | Maidenhair



CYM ref: Cymbopogon refractus | Barbed Wire Grass



DIA cae: Dianella caerulea
Blue Flax Lily



DOO asp: Doodia aspera
Prickly Rasp Fern



FIC nod: Ficinia nodosa
Knobby Clubrush



LOM lon: Lomandra longifolia
Mat-rush



THE aus: Themeda australis
Kangaroo Grass



ACA lin: Acacia linifolia
Flax-leaved Wattle



ACA lon: Acacia longifolia
Sydney Golden Wattle



BAN eri: Banksia ericifolia
Heath-leaved Banksia



BAN obl: Banksia oblongifolia
Fern-leaved Banksia



BAN rob: Banksia robur
Swamp Banksia



BAN spi: Banksia spinulosa
Hairpin Banksia



DOD tri: Dodonaea triquetra
Common Hop-Bush



EPA lon: Epacris longiflora
Native Fuschia



GOO ova: Goodenia ovata
Hop Goodenia



GRE lin: Grevillea linearifolia
White Spider Flower



GRE spe: Grevillea speciosa
Red Spider Flower



TEL spe: Telopea speciosissima
Waratah



XAN aus: Xanthorrhoea australis | Grass Tree



ANG cos: Angophora costata
Smooth- Barked Apple



BAN ser: Banksia serrata
Old Man Banksia



CAL ser: Callicoma serratifolia
Black Wattle



CER ape: Ceratopetalum apetalum | Coachwood



EUC hae: Eucalyptus haemastoma | Scribbly Gum



TRI lau: Tristaniopsis laurina
Water Gum

