# SYDNEY FLIGHT TRAINING CENTRE

28-30 BURROWS ROAD, SYDNEY 2044

LANDSCAPE CONCEPT PLAN SSDA SUBMISSION 24.10.2022 ISSUE E

# Canopy Tree Offset Commitment When this symbol appears on the drawing, Habit8 with our selected nursery partner will donate 5 x 300mm pot size endemic canopy trees to the local Landcare group in the LGA. This initiative is a joint commitment with landscape architect and client in providing local tree canopy cover to help mitigate the urban heat island effect while increasing local biodiversity values.

### **DRAWING LIST:**

- L-01 Coversheet
- L-02 Precedent Images
- L-03 Landscape Masterplan
- L-04 Landscape Planting Strategy
- L-05 Deep Soil Diagram
- L-06 Landscape Section A-A
- L-07 Landscape Section A-A
- L-08 North Elevation
- L-09 Indicative Plant Schedule
- L-10 Typical Specification & Maintenance Notes
- L-11 Typical Details
  - Appendix A: Planting Plan

ARCHITECT:





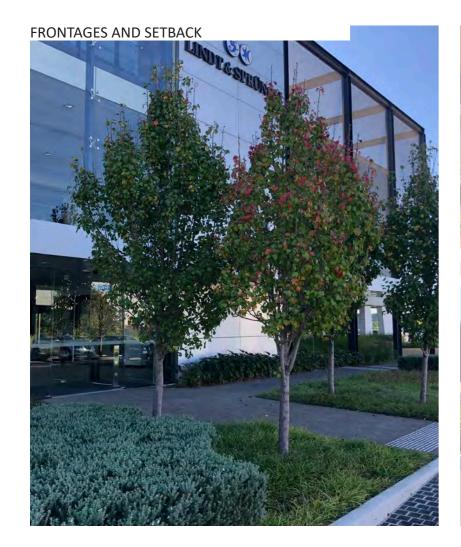
CLIENT:



LANDSCAPE ARCHITECT:

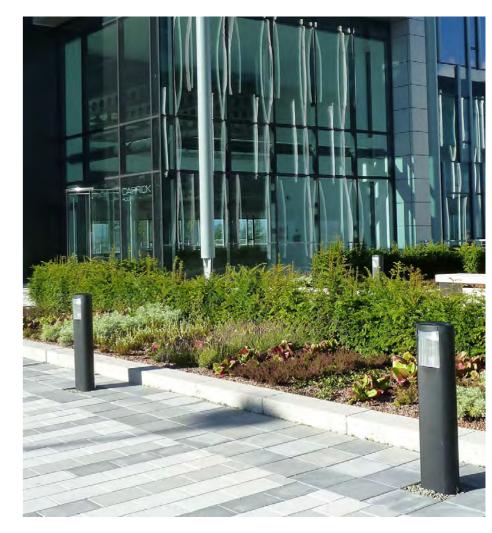


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## LANDSCAPE MASTERPLAN

## KEY







GARDEN EDGING



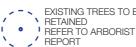
PROPOSED TREE PLANTING REFER TO PLANT SCHEDULE



BITUMEN SURFACE

PERMEABLE SURFACE





EXISTING TREES TO BE I REMOVED REFER TO ARBORIST REPORT



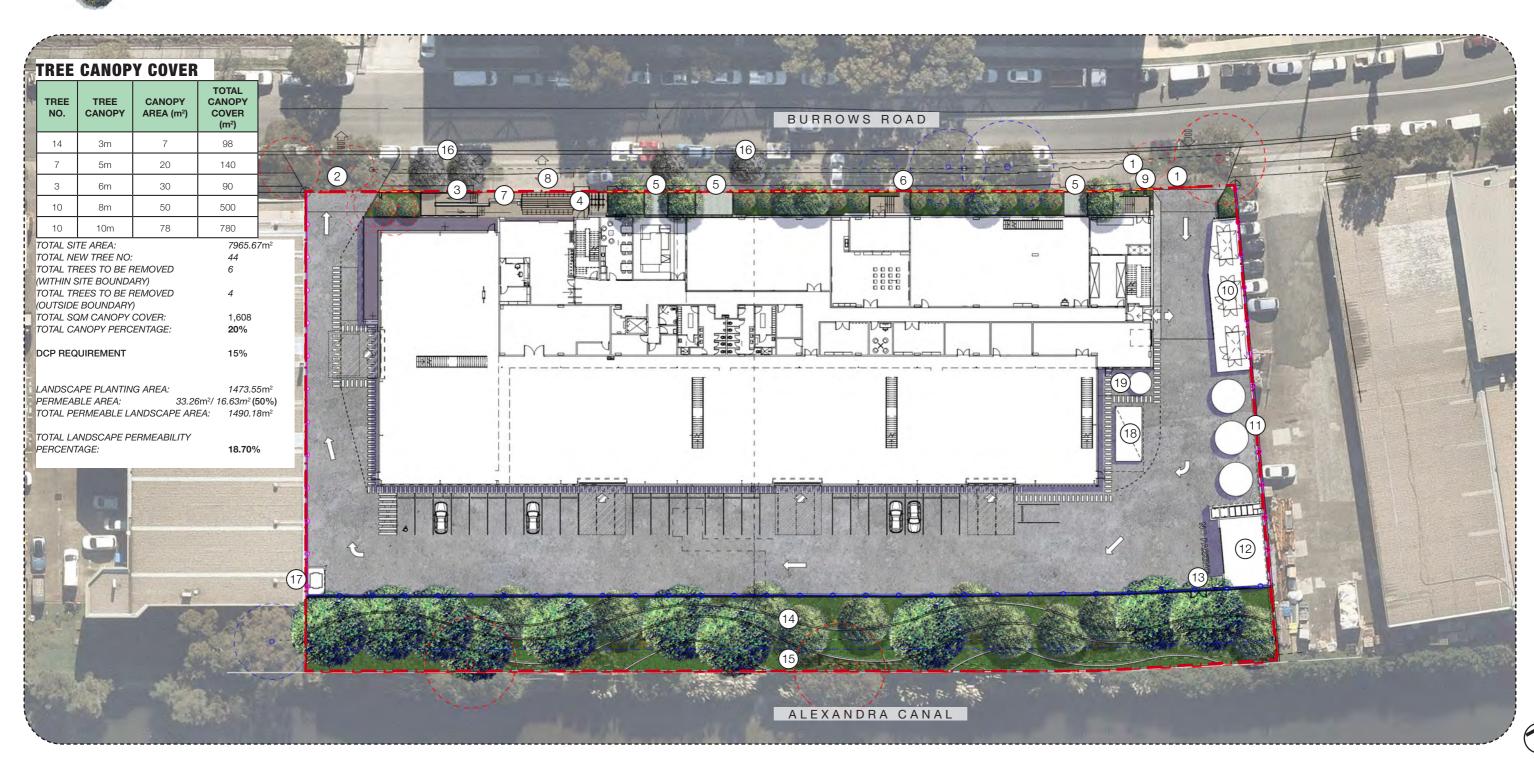
## **DESIGN NOTES**

- VEHICLE ENTRY
- VEHICLE EXIT
- ACCESSIBLE RAMP
- FIRE EGRESS
- PERMEABLE PAVING
- ELECTRICAL ROOM ACCESS
- LOGOS SIGNAGE ON BALUSTRADE WALL
- PUBLIC FRONT ENTRANCE
- VEHICLE ENTRY DIRECTIONAL SIGNAGE PYLON
- SUBSTATIONS
- 11. SPRINKLER TANKS
- 12. PUMP ROOM

- 13. DOUBLE SWING GATE ACCESS FOR PARKLAND MAINTENANCE
- 14. FUTURE COUNCIL RESERVE PARKLAND WITH BANDS OF NATIVE GRASSES & GROUNDCOVERS
- 15. 3m ZONE FOR FUTURE BIKE PATH AND ASSOCIATED
- 16. NEW STREET TREES (E.G Tristaniopsis laurina)
- 17. BULKY WASTE STORAGE
- 18. EXTERIOR EQUIPMENT TRAINING AND STORAGE
- 19. RAIN WATER TANK



CONTEXT PLAN



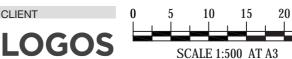


H8-22034

PROJECT NO. PURPOSE SCALE SSDA SUBMISSION

REVISION DATE

DRAWN CHECKED PAGE CLIENT 24.10.2022 KM/DG





**KEY** 

**Parkland Planting** 

**Entry Landscape Planting** 

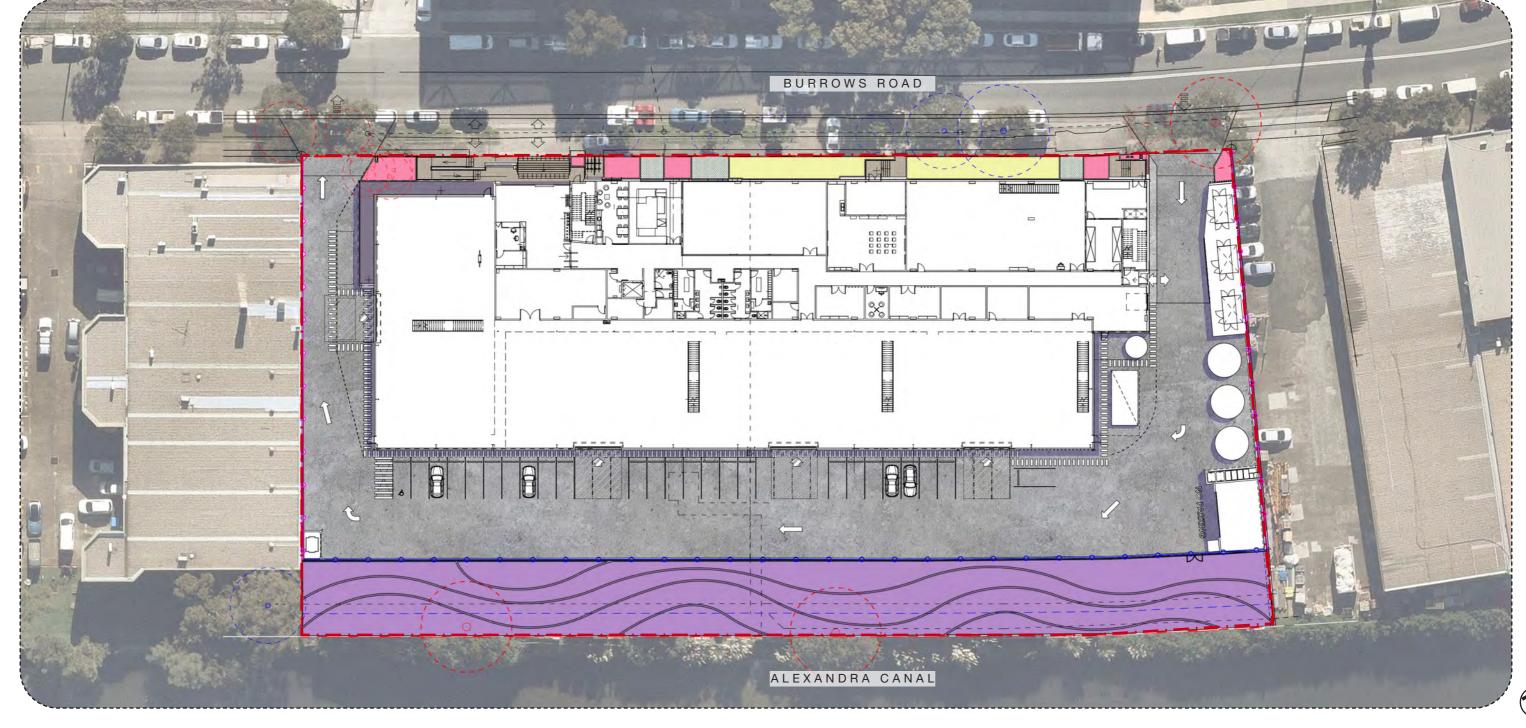
**Setback Planting** 

NOTE:

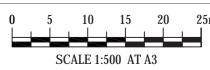
REFER TO PLANTING LIST ON DWG L-09 FOR **DETAILED SCHEDULES** 













## DEEP SOIL DIAGRAM

**KEY** 



**DEEP SOIL AREA** 1,473.55m<sup>2</sup>



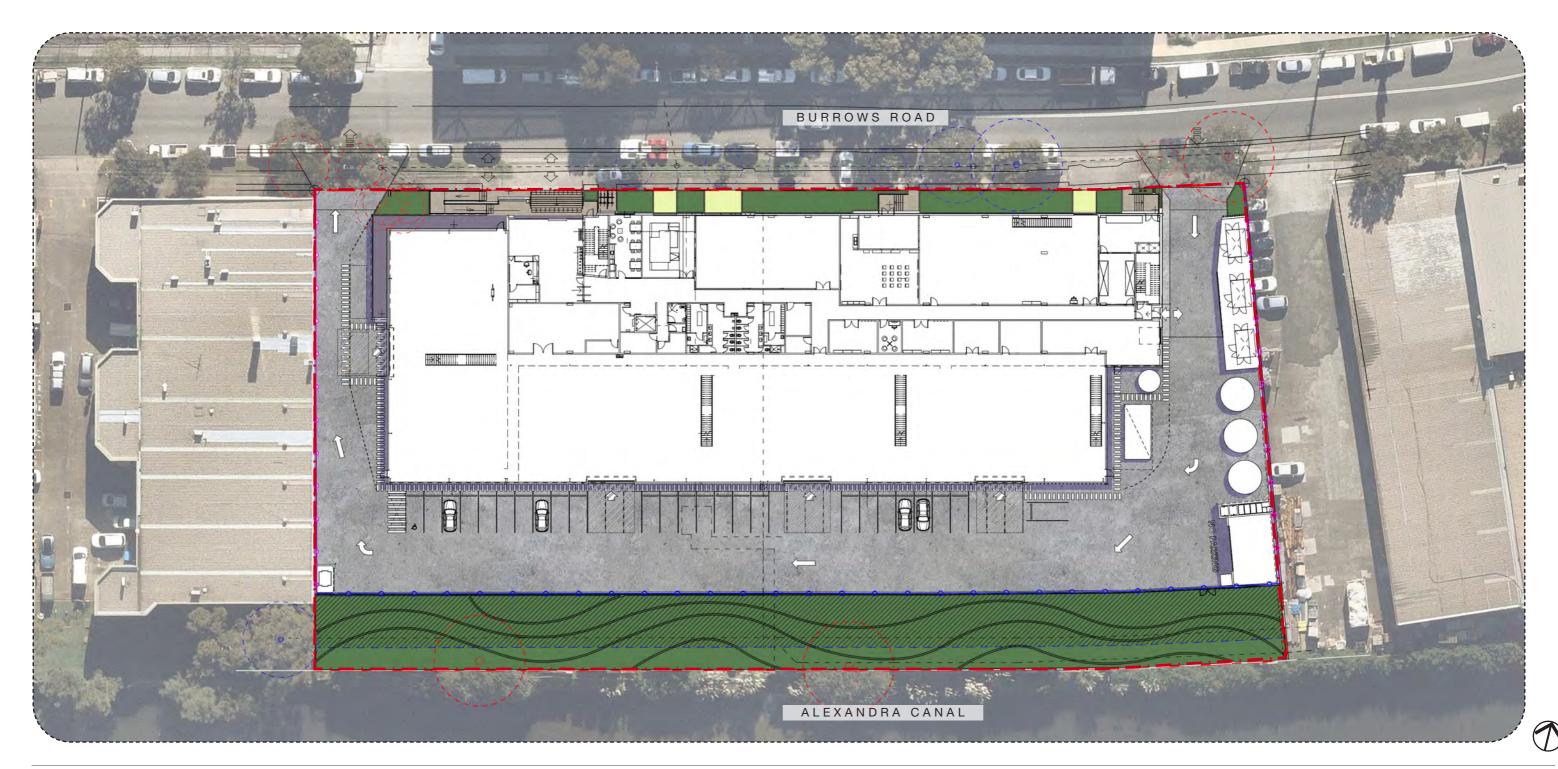
**DEEP SOIL TREE PIT** 



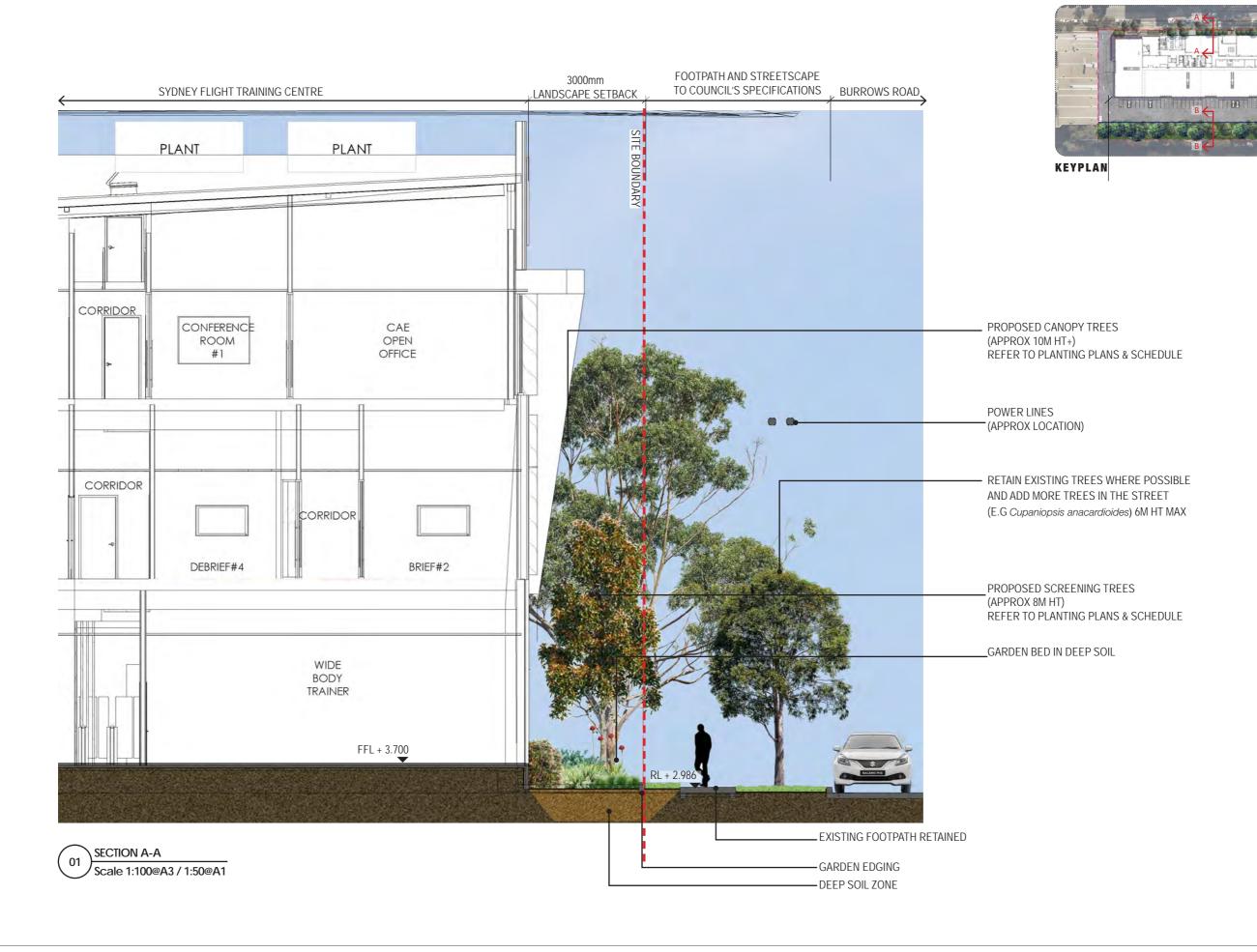
PERMEABLE AREA 33.26m<sup>2</sup>



CONTEXT PLAN





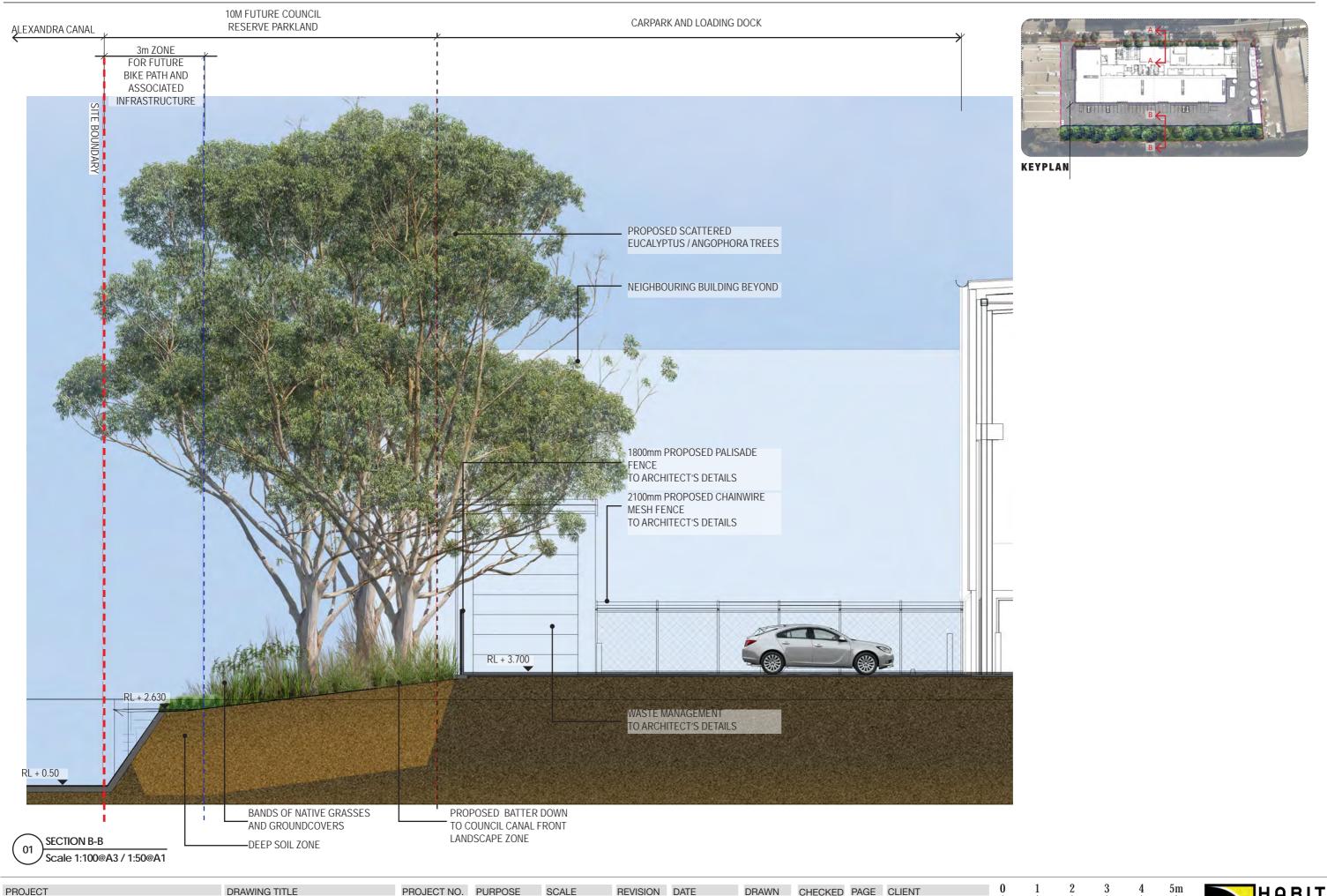




SCALE 1:100 AT A3

## LANDSCAPE SECTION B-B

SYDNEY FLIGHT TRAINING CENTRE 28-30 BURROWS ROAD, SYDNEY 2044



SSDA

SUBMISSION

1:100 @A3 E

24.10.2022 KM/DG DV

**LOGOS** 

SCALE 1:100 AT A3

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LANDSCAPE SECTION B-B







SCALE 1:250 AT A3

	CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	DENSITY	QTY
		TREES				
	AC	Angophora costata	Sydney Red Gum	100L	As Shown	1
	EE	Elaeocarpus eumundii	Eumundi quandong	100L	As Shown	7
	EH	Eucalyptus haemastoma	Scribbly Gum	100L	As Shown	3
	EP	Eucalyptus punctata	Spotted Gum	100L	As Shown	10
	ER	Eucalyptus robusta	Swamp Mahogany	100L	As Shown	10
	TL	Tristaniopsis laurina	Water Gum	100L	As Shown	4
$\bigcirc$	ВІ	Banksia integrifolia	Coastal Banksia	100L	As Shown	6
	ВА	Brachychiton acerifolius	Illawarra Flame Tree	100L	As Shown	2
	XAR	Xanthorrhoea arborea	Grass Tree	200L	As Shown	1
		SHRUBS				
00	PMM	Pittosporum tobira 'Miss Muffet'	Miss Muffet	200mm	3/m²	145
0	CC	Callistemon citrinus	Crimson Bottlebrush	200mm	2/m²	15
$\bigcirc$	WFR	Westringia fruticosa	Coastal Rosemary	200mm	2/m²	31
	CR	Correa reflexa	Correa	200mm	2/m²	256
$\bigcirc$	DEX	Doryanthes excelsa	Gymea Lily	200mm	1/m²	9
	DS	Dillwynia sieberi	Prickly Parrot-pea	200mm	2/m²	256
		VINES				
	HV	Hardenbergia violacea	Purple Twining Pea	150mm	4/m²	512
	HS	Hibbertia scandens	Guinea Flower	150mm	4/m²	512
		GROUNDCOVERS + GRASSES				
	DR	Dichondra repens	Kidney Weed	150mm	4/m²	512
	IN	Isolepis nodosa	Club-rush	150mm	4/m²	512
	PA	Poa affinis	Tussock Grass	150mm	4/m²	512
	TA	Themeda australis	Kangaroo Grass	150mm	4/m²	512
00	LLT	Lomandra longifolia 'Tanika'	Tanika Mat Rush	150mm	4/m²	195
	CGL	Carpobrotus glaucescens	Pigface	150mm	4/m²	640





**LOGOS** 

## TYPICAL SPECIFICATION + MAINTENANCE NOTES

#### **SERVICES**

Before landscape work is commenced the Landscape Contractor is to establish the position of all service lines and ensure tree planting is carried out at least 3 metres away from these services. Service lids, vents and hydrants shall be left exposed and not covered by any landscape finishes (turfing, paving, garden beds etc.) Finish adjoining surfaces flush with pit lids.

PLANTING MIXTURE - (300mm DEPTH)

Imported Garden Mix.

Type: Premium

Available: Australian Native Landscapes (ANL)

TURF SOIL MIX (150mm DEPTH)

Type: Turf underlay

Available: Australian Native Landscapes (ANL)

#### **MULCH**

APPLICATION: Place mulch to the required depth, (refer to drawings) clear of plant stems, and rake to an even surface finishing 25mm below adjoining levels. Ensure mulch is watered in and tamped down during installation.

MULCH TYPE: (75mm DEPTH)

Type 1 (Base of Trees):

Pine bark: From mature trees, graded in size from 15mm to 30mm, free from wood slivers. Dark brown in colour and texture

Batters and Edges Re-vegetation Mulch

Shall be "GO Compost" as available from Soilco or approved equal.

#### PI ANT MATERIAL

All plants supplied are to conform with those species listed in the Plant Schedule on the drawings. Generally plants shall be vigorous, well established, hardened off, of good form consistent with species or variety, not soft or forced, free from disease or insect pests with large healthy root systems and no evidence of having been restricted or damaged. Trees shall have a leading shoot. Immediately reject dried out, damaged or unhealthy plant material before planting. All stock is to be container grown for a minimum of six (6) months prior to delivery to site.

#### **FERTILISER**

MASS PLANTING AREAS: Fertiliser shall be 'Nutricote' or approved equivalent in granule form intended for slow release of plant nutrients over a period of approximately nine months. Thoroughly mix fertiliser with planting mixture at the recommended rate, prior to installing plants.

TURF: Shall be Shirleys No. 17 or approved equal thoroughly mixed into the topsoil prior to placing turf

TREES IN GRASS AND SUPER ADVANCED TREES: Pellets shall be in the form intended to uniformly release plant food elements for a period of approximately nine months equal to Shirleys Kokei pellets, analysis 6.3:1.8:2.9. Kokei pellets shall be placed at the time of planting to the base of the plant, 50mm minimum from the root ball at a rate of two pellets per 300mm of top growth to a maximum of 8 pellets per tree.

#### STAKING AND TYING

Stakes shall be straight hardwood, free from knots and twists, pointed at one end and sized according to size

of plants to be staked.

a. 100-greater than 200litre 3x(1800x50x50mm)

Ties shall be 50mm wide hessian webbing or approved equivalent nailed or stapled to stake. Drive stakes a minimum one third of their length, avoiding damage to the root system, on the windward side of the plant.

PROJECT

Obtain turf from a specialist grower of cultivated turf. turf shall be of even thickness, free from weeds and other foreign matter; lay in stretcher pattern with joints staggered and close butted, perpendicular to gradient of FSL. Water immediately after laying. TURF TYPE: Couch (Confirm with council prior to construction)

#### LANDSCAPE MAINTENANCE PROGRAM

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. This shall include, but shall not be limited to, watering, mowing, fertilising, re-seeding, returfing, weeding, pest and disease control, staking and tying, replanting, cultivation, pruning, aerating, renovating, top dressing, maintaining the site in a neat and tidy condition as follows:-

#### **GENERAL**

The landscape contractor shall maintain the landscape works for the term of the maintenance (or Plant establishment) period to the satisfaction of the council. The landscape contractor shall attend to the site on a weekly basis. Landlord to maintain all landscape areas in perpetuity (life of the development).

#### WATERING

Grass, trees and garden areas shall be watered regularly so as to ensure continuous healthy growth.

#### RUBBISH REMOVAL

During the term of the maintenance period the landscape contractor shall remove rubbish that may occur and reoccur throughout the maintenance period. This work shall be carried out regularly so that at weekly intervals the area may be observed in a completely clean and tidy condition.

#### **REPLACEMENTS**

The landscape contractor shall replace all plants that are missing, unhealthy or dead at the Landscape Contractor's cost. Replacements shall be of the same size, quality and species as the plant that has failed unless otherwise directed by the Landscape Architect. Replacements shall be made on a continuing basis after the plant has died or is seen to be missing.

#### STAKES AND TIES

The landscape contractor shall replace or adjust plant stakes, and tree guards as necessary or as directed by the Landscape Architect. Remove stakes and ties at the end of the maintenance period if so directed.

#### **PRUNING**

General: Prune to reflect the natural growth flowering and regrowth habit of the individual species. Shrubs: Prune after flowering - Spring and Summer and on a spot basis as required. Hedge trimming: Schedule trimming at times which will maintain the character and design of hedges Allow up to three times per season.

Tip pruning: To encourage development of new shoots during the active growing season. Do not remove buds before the flowering season in those plants that have terminal flowers. Radical pruning: To maintain a hedge or formal shape or when a particular problem, growth habit, damage, or disease requires branch removal.

Trees: Prune to eliminate diseased or damaged growth, avoid inter-branch contact and thin out crowns in a natural manner, maintain sight lines to signs and lights, or maintain visibility for personal security. Tree branch removal to AS 4373. Give notice and engage a suitably qualified 'arborist'.

#### MULCHED SURFACES

All mulched surfaces shall be maintained in a clean and tidy condition and be reinstated if necessary to ensure that a depth of 75mm is maintained. Ensure mulch is kept clear of plant stems at all times. Remove all mulching materials off lawn or paved areas and maintain a clean and tidy appearance when viewed on a weekly basis.

#### PEST AND DISEASE CONTROL

The landscape contractor shall spray against insect and fungus infestation with all spraying to be carried out in accordance with the manufacturer's directions. Report all instances of pests and diseases (immediately that they are detected) to the Landscape Architect.

#### GRASS AND TURF AREAS

The landscape contractor shall maintain all grass and turf areas by watering, weeding, re-seeding, rolling, mowing, trimming or other operations as necessary. Seed and turf species shall be the same as the original specified mixture. Grass and turf areas shall be sprayed with approved selective herbicide against broad leafed weeds as required by the Landscape Architect and in accordance with the manufacturer's directions. Grass and turf areas shall be fertilised once a year in autumn with "Dynamic Lifter" for lawns at a rate of 20kg per 100m2. Fertiliser shall be watered in immediately after application, Irregularities in the grass and turf shall be watered in immediately after application. Grass and turf areas shall be kept mown to maintain a healthy and vigorous sward. Mowing height: 30-50mm.

#### WEED ERADICATION

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide (eg. 'Roundup') in any of its registered formulae, at the recommended maximum rate. Regularly remove by hand, weed growth that may occur or recur throughout grassed, planted and mulched areas. Remove weed growth from an area 750mm diameter around the base of trees in grassed areas. Continue eradication throughout the course of the works and during the maintenance period.

#### SOIL SUBSIDENCE

Any soil subsidence or erosion which may occur after the soil filling and preparation operations shall be made good by the landscape contractor at no cost to the client.

MAITENANCE PERIOD: (52 Weeks) - Confirm with Project Manager

#### **IRRIGATION PERFORMANCE SPECIFICATION NOTES**

IRRIGATION OVERVIEW - Confirm with Project Manager at tender stage

#### **EXTENT (All Landscaped Areas)**

All mass planting landscape areas and trees are to have full coverage by a fully automatic irrigation system. The design, materials and installation are to be in accordance with Sydney Water Codes and all relevant Australian Standards.

- 1. An automatic irrigation system is to be installed to all turf and garden bed areas.
- 2. The irrigation system shall be designed and installed by a licensed contractor to relevant Australian standards and Sydney water guidelines.
- 3. The irrigation system shall be connected into the rainwater tank system and pump

Provide 13mm dripline to all garden bed areas with appropriate 13mm joiners. Dripline to be Toro drip or similar with 400mm centre drippers.

Install line at 500mm spacings with the first line to be 150mm in from edge. Install dripline after planting and prior to mulching to allow for an adequate mulch cover. Anchor at 1.5m maximum intervals with u-shaped stakes. Dripline pattern to suit planting.

#### CONTROL VALVES

24v solenoid actuated hydraulic valve with flow control. Control valves to be Toro ezflow series solenoids 25mm or approved equal. Provide a gate valve of the same size immediately upstream of each valve. House both valves in a high impact plastic valve box with a high impact plastic cover at finished ground level. Support the box with bricks on each side. Controller to be Toro greenkeeper or approved equal with a rain switch.

Install a master valve/pressure regulating valve equal to Toro p220 with exreg pressure regulation valve. Filter to be installed equal to Toro y filter 75mm screen filter.

#### CONTROL WIRES

Connect the control valves and soil moisture sensor to the controller with double insulated underground cables laid alongside piping where possible. Lay intertwined for their full length without joints except at the valves and branches off common wires. Provide waterproof connectors.

Provide a backflow prevention device to Sydney water standards AS 3500.

#### **RELEVANT AUSTRALIAN STANDARDS**

Soil: AS4419, AS3743, AS4454. Mulch: AS4454. Tree Stock: AS2303. Pruning: AS4373. Tree Protection: AS4970.

Contractors to comply with the above Australian Standards.

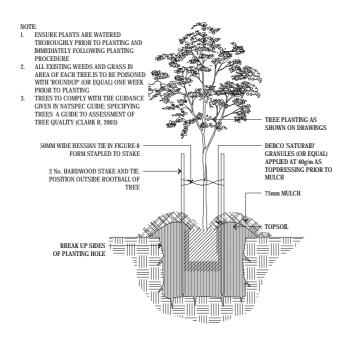




MAINTENANCE NOTES

SCALE

REVISION DATE



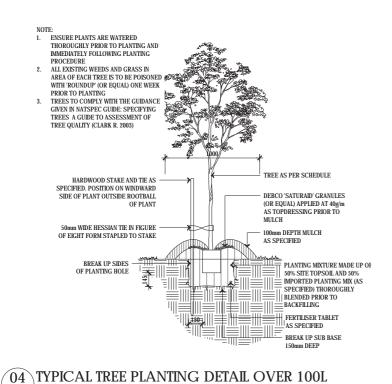
NOTE: REMOVE ALL EXISTING GRASS AND UNWANTED VEGETATION BY APPROVED HORTICULTURAL METHODS AT BASE OF PLANT 100mm TOPSOIL PLANTING AS SHOWN ON PLAN BACKFILL WITH SITE TOPSOIL EXCAVATE PLANTING HOLE 

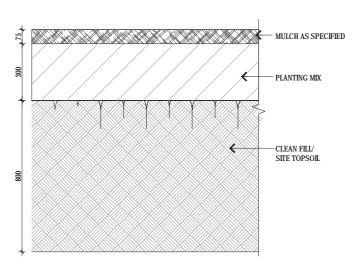
MASS PLANTING BED 10mm CHAMFER TO TOP EDGES FLUSH CONCRETE EDGE 25MPa 100mm COMPACTED FINE CRUSHED ROCK COMPACTED SUBGRADE

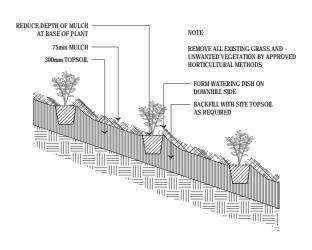
01 TYPICAL TREE PLANTING DETAIL UNDER 100L 1:20 @ A1 / 1:40 @ A3 (IN GARDEN BED)

02 MASS PLANTING DETAIL

03 CONCRETE EDGE DETAIL







05 TYPICAL SOIL PROFILE

06 MASS PLANTING ON EMBANKMENT

PROJECT DRAWING TITLE PROJECT NO. PURPOSE SCALE SSDA SYDNEY FLIGHT TRAINING CENTRE TYPICAL DETAILS H8-22034 AS SHOWN E 28-30 BURROWS ROAD, SYDNEY, AUSTRALIA SUBMISSION

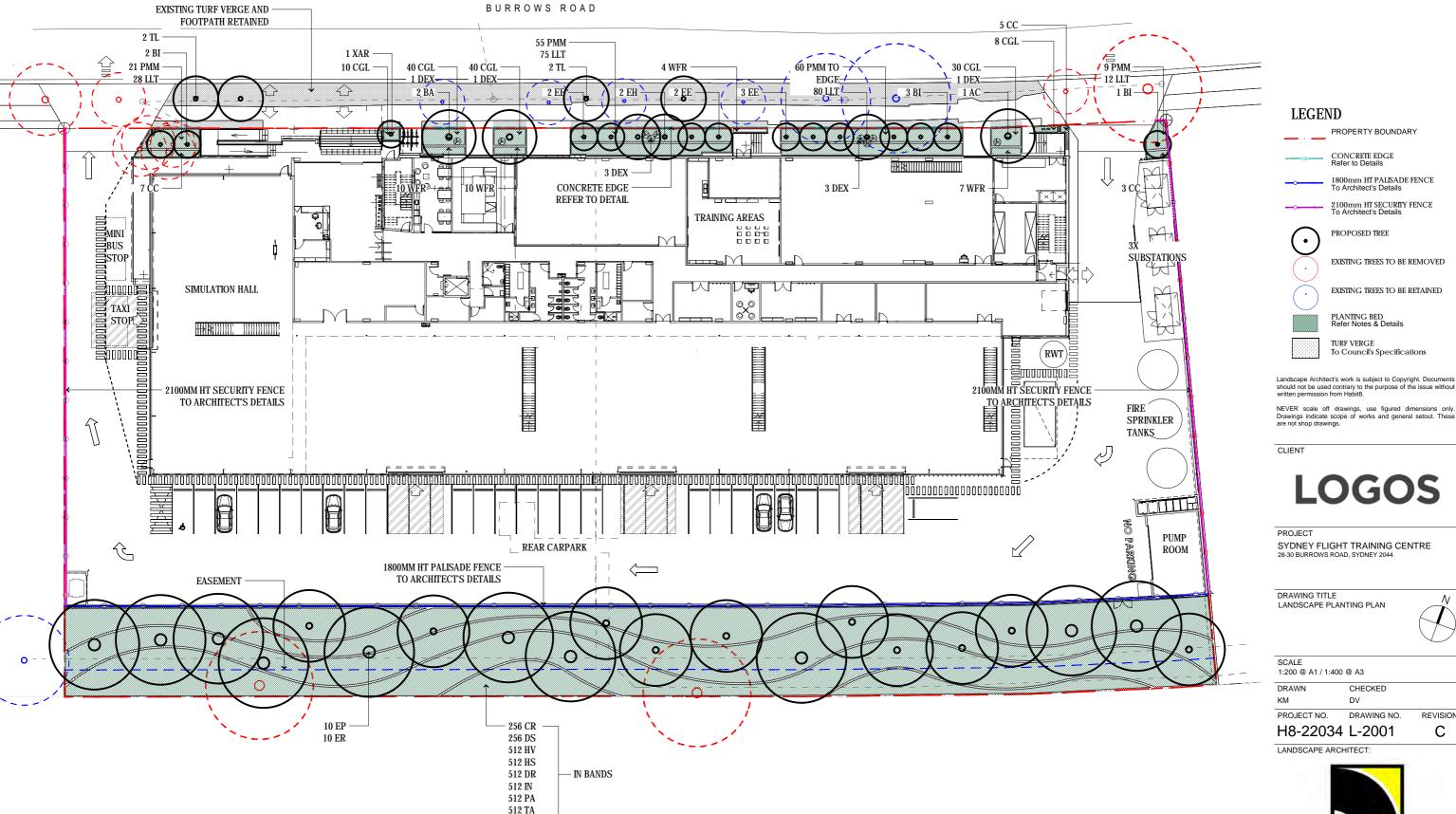
REVISION DATE

DRAWN CHECKED PAGE CLIENT 24.10.2022 KM/DG DV

LOGOS



## APPENDIX A: PLANTING PLAN



512 CGL -

EXISTING TREES TO BE REMOVED

EXISTING TREES TO BE RETAINED

# **LOGOS**



REVISION

C



M: 0425 206 047