MIXED USE LIGHT INDUSTRIAL PARK DEVELOPMENT

MAY 2021



Drawing Schedule

Name	Drawing Number	Revision	
Cover Sheet	L000	Н	
Tree Management Plan	L001	F	
Overall Landscape Plan	L101	Н	
Lot 1 Landscape Plan	L102	G	
Indicative Plant Schedule	L301	С	
Landscape Southern Elevation	L401	В	
Landscape Western Elevation	L402	В	
Landscape Eastern Elevation	L403	А	
Landscape Section Southern Boundary	L601	А	
Landscape Section Eastern Boundary	L602	А	

Site Calculations

Item	Area
Total Site	3.096 ha
Total Soft Landscaping	5546m ²
Total Soft Landscaping	554011
Deep Soil Planting Zones	5416m ²

Statutory & Regulatory Guidelines

Central Coast Council

• SEPP 19: Urban Bushland

• SEPP (Infrastructure) 2007 and SEPP Vegetation (Non-Rural Areas)

Central Coast Council Local Environment Plan (LEP) 2018

Central Coast Council Development Control Plan: Gosford (DCP) 2014



MIXED USE LIGHT INDUSTRIAL PARK DEVELOPMENT 27 SUNNY BANK ROAD, LISAROW NSW

1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269

Percentage

17.9%

17.4%

Site Description and Local Context:

The subject site is located at Lot 1 DP 880254, and the street address is 27 Sunnybank Rd Lisarow NSW 2250.

The existing topography of the subject site is sloping with a cross fall from the high point (RL 36.29) located on the North-East corner to the low point (RL 18.37) located in the South-West corner of the site with a fall of approximately 17.89 metres along the Sunnybank Road frontage.

From the upper part (NE) of the slope there are distant views to native bushland to the south and views to Perratt Close Reserve Park to the West.

The subject site is located within an industrial precinct and a modular home factory and offices are located along the southern boundary, various warehouse facilities located to the north, single storey residential dwellings with buffer vegetation zone to the west and the McCain Foods and Sara Lee bakery factories to the east on the opposite side of Sunnybank Road.

An existing storm water easement is located on the north east (Sunnybank Road) boundary of the site as well as an existing sewer and stormwater easement located along the southern boundary of the subject site. Overhead powerlines run adjacent to back of kerb along Sunnybank Road and the nature strip consists of a mown turf verge. The subject site current has a chainmesh wire security fence around the perimeter.

The existing vegetation character is predominantly cleared pastureland with remnant native woodland vegetation. A few remnant native tree species are located within the western edge of the site.

Proposed Development:

The proposed development will include the subdivision of the land into two (2) lots which has been approved under a separate development application (DA 56751/2019). The proposed built form within this subdivision will include the construction of various light industry warehouses, storage units, a neighbourhood shop, café, gymnasium, and a childcare centre on the vacant residue lot.

The proposal will be a staged development and the landscape plans indicate an overall landscape plan as well as a detailed landscape plan for stages 1 & 2 which for this mix-use development application will include the following:

- Childcare Centre
- Gym
- Restaurant/Café
- Neighbourhood Shop
- Vet
- Storage Units

Existing Tree Managment:

The overall landscape proposal for the development will also include a number of provisions that were conditions of consent with the approval of the subdivision of the lots. These provisions are as follows:

Vegetation Filter Strip:

In accordance with DA condition #2.3 a vegetation filter strip has been proposed along the entire western boundary of the site having a minimum width of ten (10) metres fronting the sensitive area. The strip is planted with native species which naturally occur within a 1km radius of the site. Please refer to the Landscape plan and plant schedule for species selection, planting densities and plant numbers for the proposed vegetation filter strip.

Sunnybank Road Streetscape Frontage:

In accordance with DA condition #4.6, a minimum of 18 no. endemic trees have been planted within the minimum 5 metre wide landscape area along the 192m Sunnybank Road street frontage. These Eucalyptus saligna and Syncarpia glomulifera species are planted in 'clumps' and have been located to ensure that these trees are clear of existing services such as overhead powerlines, underground services. proposed electrical kiosks and signage pylons. The tree canopies to be under-pruned to ensure good surveillance into the site in accordance with CPTED guidelines and traffic & pedestrian safety. These trees will assist in reducing the bulk and scale of the built form.

Other landscape design provisions with this development proposal will include water sensitive urban design (WSUD) principles, Bush Fire Hazard Reduction Initiatives as well as incorporating BASIX and Greenstar Building initiatives.

Bush Fire Hazard Reduction Initiatives:

As the subject site is identified as 'bushfire prone land' on the Gosford Bushfire Prone Land Map, and there are a number of proposed commercial activities such as a Childcare Centrelocated on the site an asset protection zone and bush fire hazard reduction initiatives will need to be implemented as part of the landscape design as identified in the prepared bush fire report.

General Planting Design Strategy:

- planting initiatives:

- irritations

Shrub species, sizing & locations are to ensure that passive surveillance is maintained at building, carpark & driveway entries path and all plantings are to be layered to with smaller groundcovers and shrubs adjacent to paths and buildings in accordance with Crime Prevention Through Environmental Design (CPTED) principles.

All proposed plant species selection has been considered in terms of soil types, species hardiness and on-going landscape maintenance requirements.



COVER SHEET

DRAWING NAME

Water Sensitive Urban Design (WSUD) & Greenstar Building Initiatives:

Some of the WSUD initiatives included in this proposed landscape design include the following:

1. Implementation of raingardens, bio-swales and vegetation filter strip (as mentioned) using appropriate drainage, soil media and filtration plant species for stormwater harvesting and reducing pollutants and stormwater overflow from hard paved areas into the overall stormwater catchment

2. Use of stored rainwater on site for landscape irrigation and incorporating an automatic drip line irrigation system to minimum Australian standards and guidelines.

3. Implementation of predominantly low water use native (and endemic) species which have been grouped in regard to ongoing watering requirements and elimination on reliance on the use of potable water.

4. Use of permeable paving within hard paved areas to allow for infiltration to root zones of existing & proposed trees and to assist in reducing stormwater overflow.

Some of the bush fire hazard reduction initiatives in the overall landscape design are as follows:

1. The identified Asset Protection Zone (APZ) is to be well maintained in regard to ongoing landscape maintenance. Turf or unirrigated grassed areas to be mowed on a regular basis. Leaf litter, twigs and branches to be removed on a regular basis to reduce potential fuel load.

2. Existing understory shrub planting is to be removed directly under the canopy of trees and 'fire -retardant' plant species to be implemented instead as low shrubs or groundcovers.

3. Irrigated well maintained garden beds and an ongoing landscape maintenance schedule will be implemented as part of the construction documentation for the project.

4. Proposed trees are to be located singularly or in groups to achieve a discontinuous canopy.

5. Limited use of combustible landscape materials particularly in high flammable risk areas

6. No shrubs to be planted in close proximity to window and door openings, and trees to be planted minimum distances from proposed buildings so mature canopies are clear of roof overhangs or eaves.

The planting design strategy for this residential flat building development to include the following: Endemic tree planting (where practical) within appropriate deep soil zones to reduce bulk & scale of the development

• Evergreen tree planting to provide shade & amenity and to reduce radiant heat from surrounding hard paved areas

• A broad planting palette to include a variety of predominantly native species to provide colour, texture, aroma & form

• Implementation of indigenous species to encourage canopy corridor links and bio-diversity

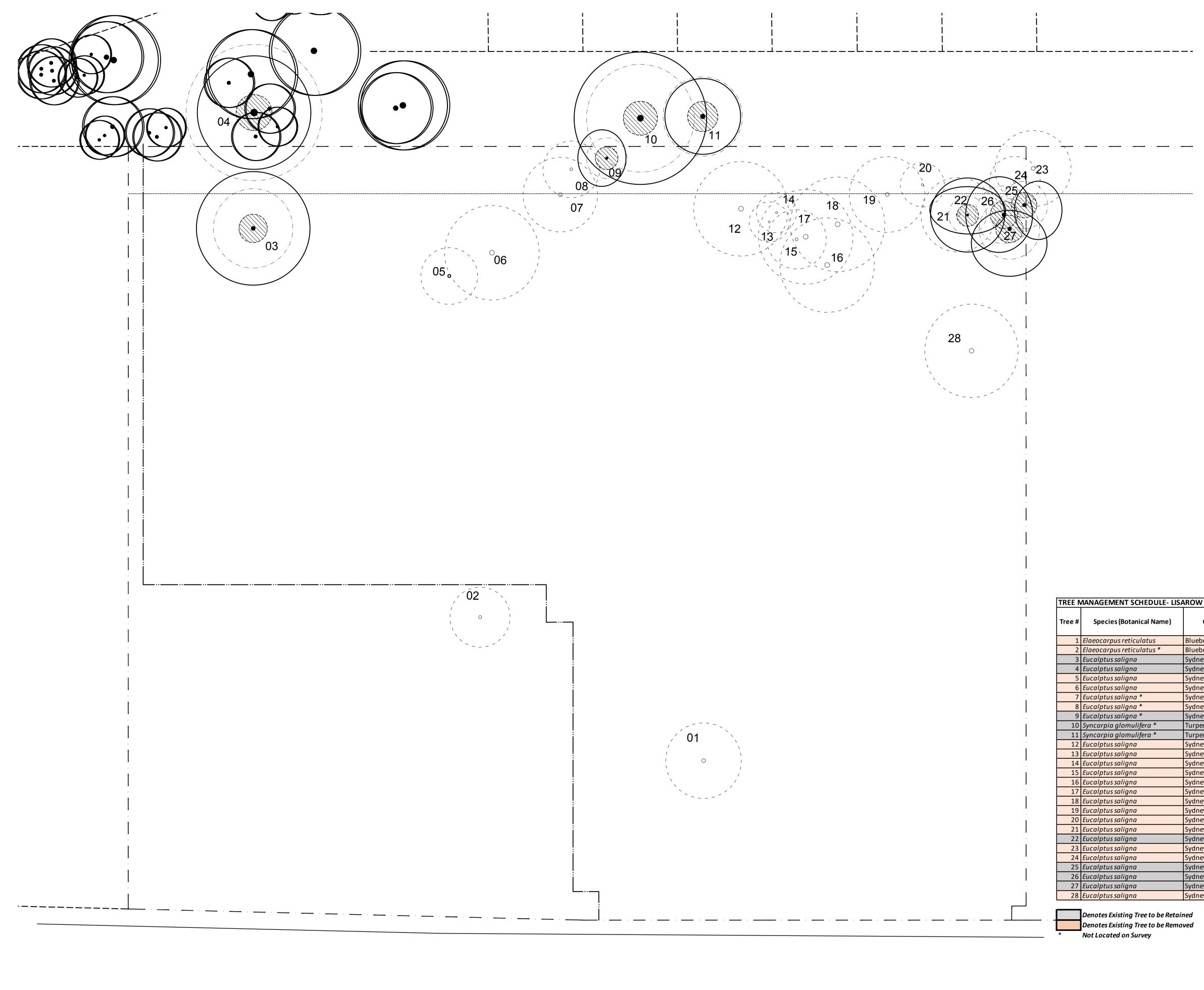
With the proposed landscape design for this development we would implement the following safety

• Avoid planting tree species that are prone to potential limb drop

• Avoid planting species close to paths and hard paved areas that are known for excessive flower and foliage drop that may cause potential slip hazards

• Avoid planting species that are known for invasive root structure that may cause damage to existing and proposed infrastructure and damage paths & hard paved areas, which may cause potential trip hazards

• Avoid planting species that are known to be toxic or may cause respiratory, allergy and/or skin



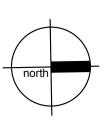


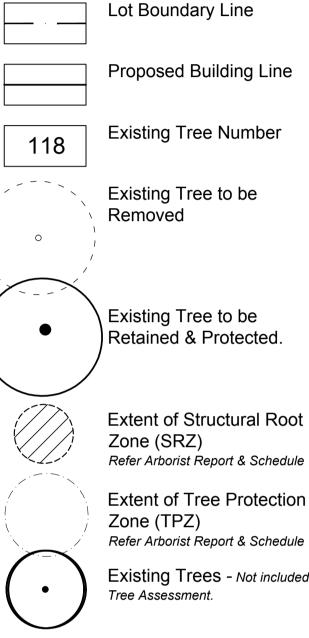
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DRAWING NAME

TREE MANAGEMENT PLAN







Lot Boundary Line

Proposed Building Line

Existing Tree Number

Retained & Protected.

Extent of Structural Root Refer Arborist Report & Schedule

Extent of Tree Protection

Existing Trees - Not included in

V							
Common Name	Retain/ Remove	Canopy Spread(m) N,S,E,W	DGL (mm)	HGT (m)	TPZ (m)	SRZ (m)	Comments/ Condition
berry Ash	Remove	8 Radial	770	16	6	3	Good, In development footprint
berry Ash	Remove	6 Radial	680	14	6.5	2.8	Poor, In development footprint
iey Blue Gum	Retain	12 Radial	780	26	8.4	3	Good, Suitable for Retention
iey Blue Gum	Retain	12 Radial	1400	36	14.4	3.8	Good, Suitable for Retention
iey Blue Gum	Remove	6 Radial	600	18	5.4	2.7	Good, Suitable for Retention
iey Blue Gum	Remove	10 Radial	1290	28	13.4	3.7	Good, Suitable for Retention
iey Blue Gum	Retain	6,6,8,2	700	28	7.9	2.9	Fair, Suitable for Retention
iey Blue Gum	Remove	6 Radial	580	26	5.5	2.6	Poor, Declining and trunk wound
iey Blue Gum	Retain	4,6,6,6	460	26	4.3	2.4	Fair, Suitable for Retention
entine	Retain	14 Radial	1200	30	11.4	3.6	Good, Suitable for Retention
entine	Retain	8 Radial	920	26	8.4	3.2	Good, Suitable for Retention
iey Blue Gum	Retain	10 Radial	800	26	7.8	3	Good, Suitable for Retention
iey Blue Gum	Remove	6 Radial	450	20	3.8	2.4	Poor, Declining and trunk wound
iey Blue Gum	Retain	4 Radial	480	23	4.2	2.4	Fair, Suitable for Retention
iey Blue Gum	Remove	X,8,2,2	41	18	3.6	2.3	Poor, Declining and trunk wound
iey Blue Gum	Remove	10 Radial	820	30	6.6	3	Fair, In development footprint
iey Blue Gum	Remove	10 Radial	620	28	5.3	2.7	Good, In development footprint
ley Blue Gum	Remove	12,10,10,10	650	28	5.9	2.8	Good, In development footprint
iey Blue Gum	Retain	8 Radial	560	28	4.8	2.6	Good, Suitable for Retention
ey Blue Gum	Retain	4,8,4,6	550	28	4.7	2.6	Poor, Retain for habitat
ley Blue Gum	Remove	10,6,10,6	480	26	4.8	2.4	Poor, Declining and trunk wound
ey Blue Gum	Retain	8,X,4,6	400	25	4	2.3	Fair, Suitable for Retention
ey Blue Gum	Remove	3 Radial	440	25	3.8	2.3	V Poor, Declining and trunk wound
ey Blue Gum	Remove	X,4,X,10	460	24	4.3	2.4	V Poor, Declining and trunk wound
ey Blue Gum	Retain	8,2,6,4	610	26	5	2.7	Good, Suitable for Retention
ey Blue Gum	Retain	6,8,8,8	720	28	6.1	2.9	Good, Suitable for Retention
ey Blue Gum	Retain	8,8,10,4	700	28	6.4	2.9	Good, Suitable for Retention
ey Blue Gum	Remove	10,12,10,8	730	26	6.5	2.9	Good, Suitable for Retention
	-	-				-	

CLIENT	TREND INVESTMENTS PTY LTD	RE
PROJECT NO	19099	
DRAWING NO	L001	
SCALE	1:800 @ A3	
	1:400 @ A1 0 1 2 3 4	5m

MENTS PTY LTD REVISION F **DATE** 08.04.21





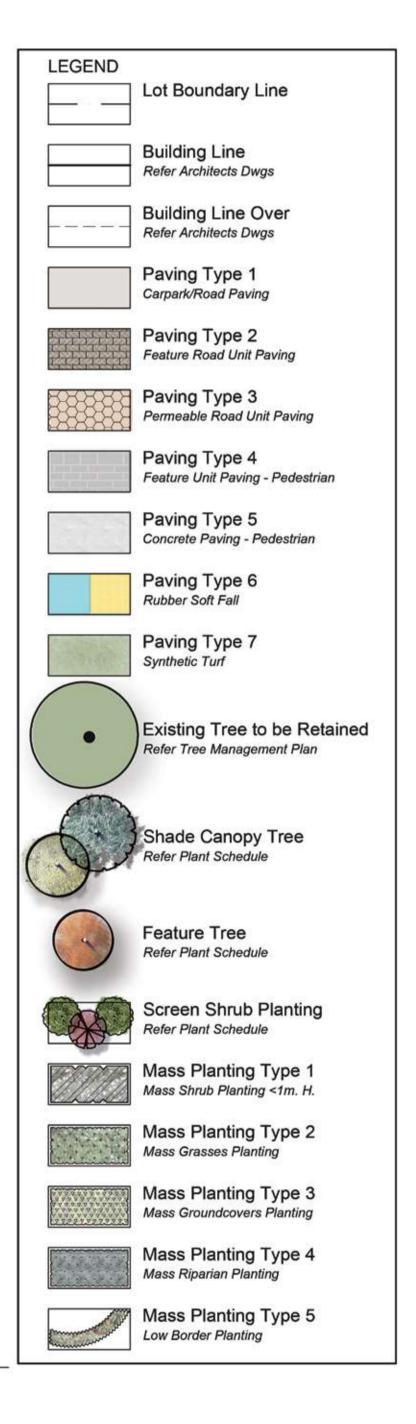
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DRAWING NAME **OVERALL LANDSCAPE** PLAN



Existing asset protection zone (APZ) to be retained. Landscape to be maintained in accordance width RFS. bushfire hazard reduction initiatives. 10m wide vegetation filter strip in accordance with DA condition #2.3. Mass planted with the following endemic filtration species:

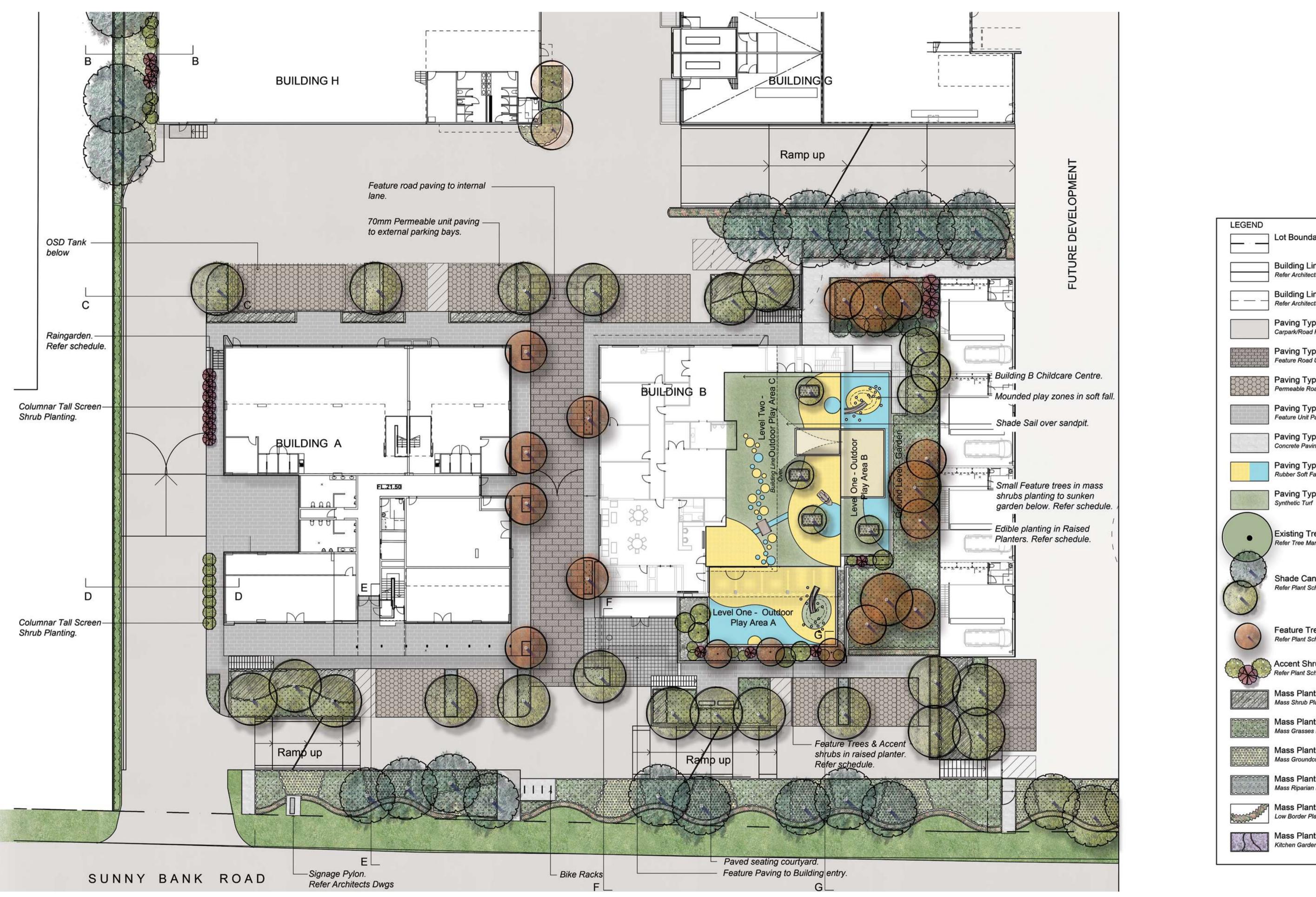
> Baumea articulata Carex appressa Gahnia clarkei Juncus usitasis



Screening Shrub Planting to Boundary.

Cascading/Climber planting to Retaining Wall. Refer Schedule.

CLIENT	TREND INVESTMENTS PTY LTD REVISION H
PROJECT NO	19099 DATE 21.05.21
DRAWING NO	L101
SCALE	1:800 @ A3 1:400 @ A1 0 1 2 3 4 5m

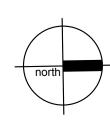




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LOT 1 LANDSCAPE PLAN

DRAWING NAME



EGEND	
	Lot Boundary Line
	Building Line Refer Architects Dwgs
	Building Line Over Refer Architects Dwgs
	Paving Type 1 Carpark/Road Paving
	Paving Type 2 Feature Road Unit Paving
	Paving Type 3 Permeable Road Unit Paving
	Paving Type 4 Feature Unit Paving - Pedestrian
	Paving Type 5 Concrete Paving - Pedestrian
	Paving Type 6 Rubber Soft Fall
	Paving Type 7 Synthetic Turf
•	Existing Tree to be Retained Refer Tree Management Plan
3	Shade Canopy Tree Refer Plant Schedule
	Feature Tree Refer Plant Schedule
20	Accent Shrubs Refer Plant Schedule
	Mass Planting Type 1 Mass Shrub Planting <1m. H.
	Mass Planting Type 2 Mass Grasses Planting
	Mass Planting Type 3 Mass Groundcovers Planting
	Mass Planting Type 4 Mass Riparian Planting
	Mass Planting Type 5 Low Border Planting
11	Mass Planting Type 6 Kitchen Garden Planting

PROJECT NO 19099 DRAWING NO L102

CLIENT TREND INVESTMENTS PTY LTD REVISION G **DATE** 21.05.21 SCALE 1:400 @ A3 1:200 @ A1 0 1 2 3 4 5m

Image	Botanical Name	Common Name	Mature Height (m.)	Mature Spread		Comments
Shade An	nenity / Street Trees					
Epi	Eucalyptus pilularis	Blackbutt	20	12	100L	Stakes and ties
Esa	Eucalyptus saligna	Sydney Blue Gum	30	15	100L	Stakes and ties
Sgl	Syncarpia glomulifera	Turpentine	30	15	100L	Stakes and ties
Small Fea	ature Trees					
Cfi	Corymbia ficifolia 'Orange Splendour'	Dwarf Flowering Gum	6	4-6	45L	Stakes and ties
Ere	Elaeocarpus reticulatus	Blueberry Ash	10	5	45L	Stakes and ties
Tall Scree	en Shrubs > 1.5m					
Bob	Breynia oblongifolia	Coffee Bush	3	2	300mm	Endemic
Dsi	Denhamia silvestrus	Narrow-Leafed Orangebark	4	3	300mm	Endemic
Pli	Persoonia linearis	Narrow-Leafed Geebung	3	1.5	300mm	Endemic
	Leucospermum cordifolium	Coordet Dibbon	0	4 5	000,000,000	Nativo
LSR SPi	'Scarlet Ribbon'	Scarlet Ribbon Pinnacle Narrow Lilly Pilly	2 7.5	1.5 1.5	300mm 300mm	Native
SFI	Syzigium australe 'Pinnacle'	Finnacie Natrow Liny Finy	7.5	1.5	30011111	Nalive
Shrubs <		Maxiaan Libr	4 5	4	000,000,000	Evetie
Byu	Beschorneria yuccoides	Mexican Lily	1.5	1	200mm	Exotic
CBJ GCV	Callistemon 'Better John' Grevillea 'Crimson Villa'	Better John Bottlebrush Crimson Villa	1.2 0.7	0.9 0.7	200mm 200mm	Native
Wfr	Westringia fruiticosa 'Zena'	Westringia 'Zena'	1.2	1.2	200mm	
VVII	westingia nulleosa Zena	Westingia Zena	1.2	1.2	20011111	Nalive
	nted Groundcovers / Grasses		0.5	0.5	1.10	N 1 - 22
ALR	Alternanthera dentata 'Little Ruby'	Littly Ruby	0.5	0.5	140mm	
Ccn DLJ	<i>Convolvulus cneorum Dianella caerulea 'Little Jess'</i>	Silver Bush Little Jess Flax Lily	0.5	1 0.4	140mm 140mm	Native Native
DLJ Dre	Dichondra repens	Kidney Weed	0.4 0.1	0.4 1.5	100mm	Endemic
Est	Entolasia stricta	Wiry Panic	0.4	0.5	140mm	Endemic
Mpa	Myoporum parvifolum Ýareena'	Yareena Creeping Boobialla	0.1	1	140mm	Native
Ngr	Neomarica gracilis	Walking Iris	0.5	0.5	140mm	Native
Paf	Poa affinis	Tussock Grass	1	0.5	140mm	Endemic
Sby	Stachys byzantina	Lambs Ears	0.5	0.5	140mm	Native
WMu	Westringia 'Mundi'	Westringia 'Mundi'	0.6	1.5	140mm	Native
Low Bord	ler Planting					
CFC	Carex albula 'Frosted Curls'	New Zealand Hair Sedge	0.6	0.6	140mm	Native
CDF	Chrysocephalum apiculatum 'Desert Flame'	Yellow Buttons	0.5	0.3	140mm	Native
LWI	Lomandra confertifolia 'Wingarra'	Lomandra Wingarra	0.4	0.6	140mm	Native
Vhe	Viola hederacea	Native Violet	0.1	0.3	140mm	Native
Filtration	Planting					
Bar	Baumea articulata	Jointed Twig-rush	1.5	1	140mm	Endemic
Сар	Carex appressa	Tall Sedge	0.8	0.6	140mm	Endemic
Gcl	Gahnia clarkei	Sawsedge	1.5	1.5	140mm	Endemic
Jus	Juncus usitasis	Common Rush	1	1	140mm	Endemic
•	en Planting		0.0	0.0	1.10	E de se la
Cap	Carex appressa Dianella revoluta Little Rev	Tall Sedge	0.8	0.6	140mm	Endemic
Dre Fno	Ficinia nodosa	Blue Flax-lily Knobby Club Rush	0.4	0.4 0.8	140mm 140mm	Native Native
Jef	Juncus effusus	Common Rush	1	1	140mm	Native
Llo	Lomandra longifolia Tanika	Lomandra Tanika	0.6	0.65	140mm	Native
Shade To	lerant Planting					
Aau	Asplenium australasicum	Birds Nest Fern	1	1	140mm	Native
Bnu	Blechnum nudum	Fishbone Water Fern	0.7	0.5	140mm	Native
Мсо	Macrozamia communis	Burrawang	1	1.5	140mm	Endemic
Pxa	Philodendron 'Xanadu'	Xanadu Dwarf Philodendron	0.8	0.8	140mm	Native
Ptr	Pteris tremula	Tender Brake	1	0.8	140mm	Native
Climbers	/ Cascading					
Hde	Hibbertia dentata	Toothed Guinea Vine	6		140mm	Endemic
Sse	Senecio Serpens	Blue Chalksticks	0.2	0.5	140mm	Exotic
Cci	Casuarina glauca 'Cousin It'	Cousin It	0.2	0.5	140mm	Native
Kitchen /	Edible Planting					
Cau	Citrus aurantifolia	Lime	4	3	25L	
Cli	Citrus limon	Lemon	3	3	25L	
Oba	Ocimum basilicum	Sweet Basil	0.45	0.4	140mm	
Oma	Oreganum majorana	Sweet Majoram	0.6	0.4	140mm	
Ovu	Oreganum vulgare	Common Oregano	0.6	0.4	140mm	
Pcr	Petroselinum crispum	Crisp Leaf Parsley	0.3	0.5	140mm	



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DRAWING NAME INDICATIVE PLANT SCHEDULE

























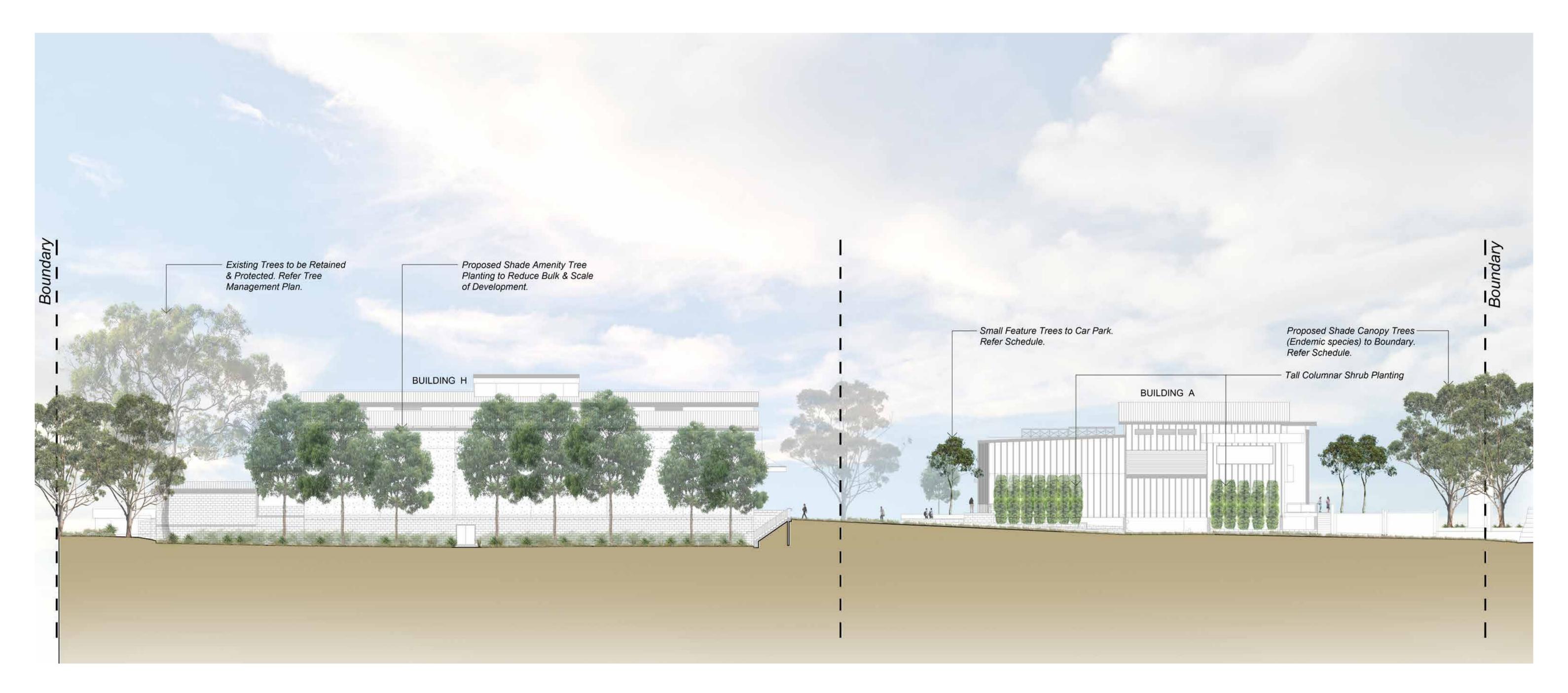






PROJECT NO 19099 DRAWING NO L301 SCALE NA

CLIENT TREND INVESTMENTS PTY LTD REVISION C **DATE** 19.06.20





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DRAWING NAME

 CLIENT
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 REVISION
 B

 PROJECT NO
 19099
 DATE
 21.05.21

 DRAWING NO
 L401
 L401
 Immediate
 Immediate

 SCALE
 1:200 @ A1
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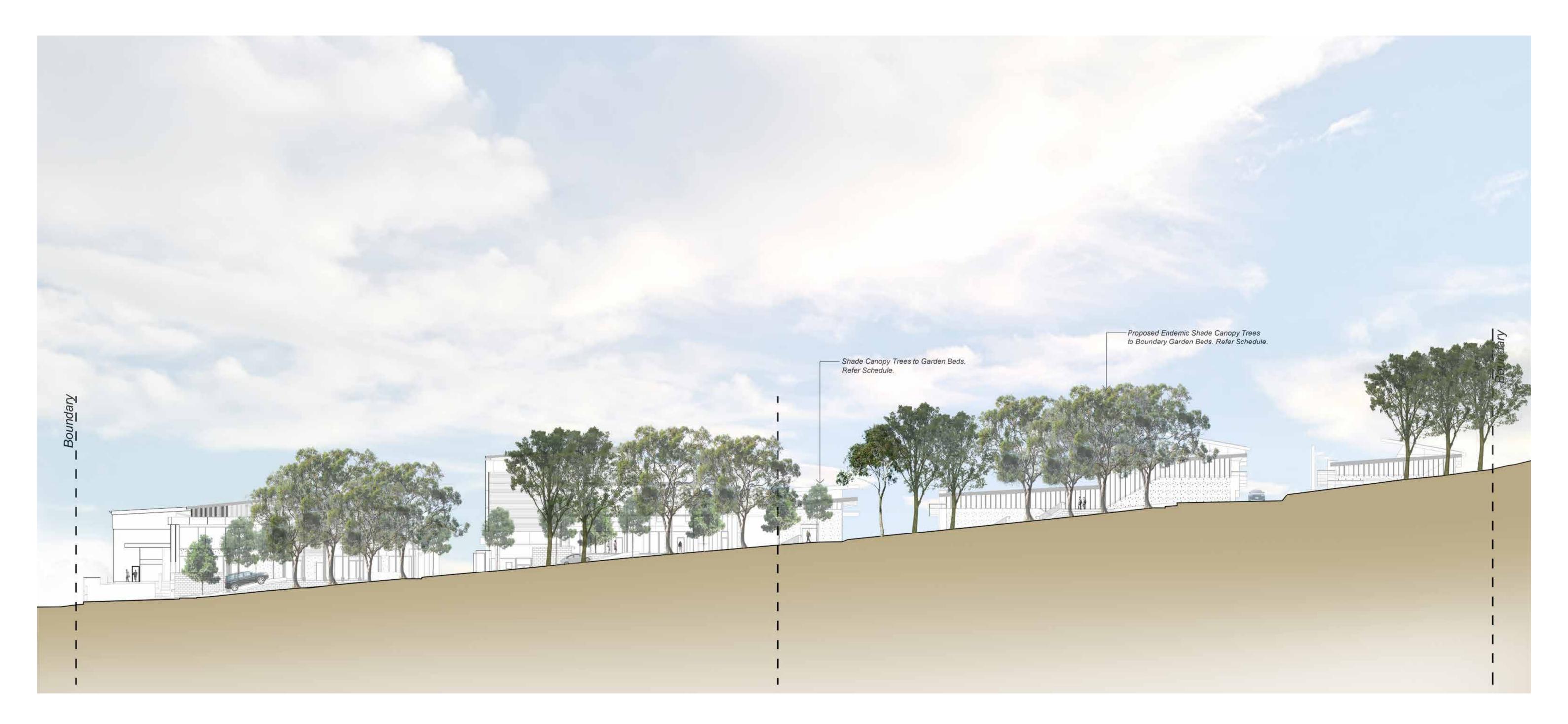
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DRAWING NAME LANDSCAPE WEST ELEVATION

PROJECT NO 19099 DRAWING NO L402

CLIENT TREND INVESTMENTS PTY LTD REVISION B **DATE** 10.09.20

SCALE 1:250 @ A1 0 1 2 4 6 10m



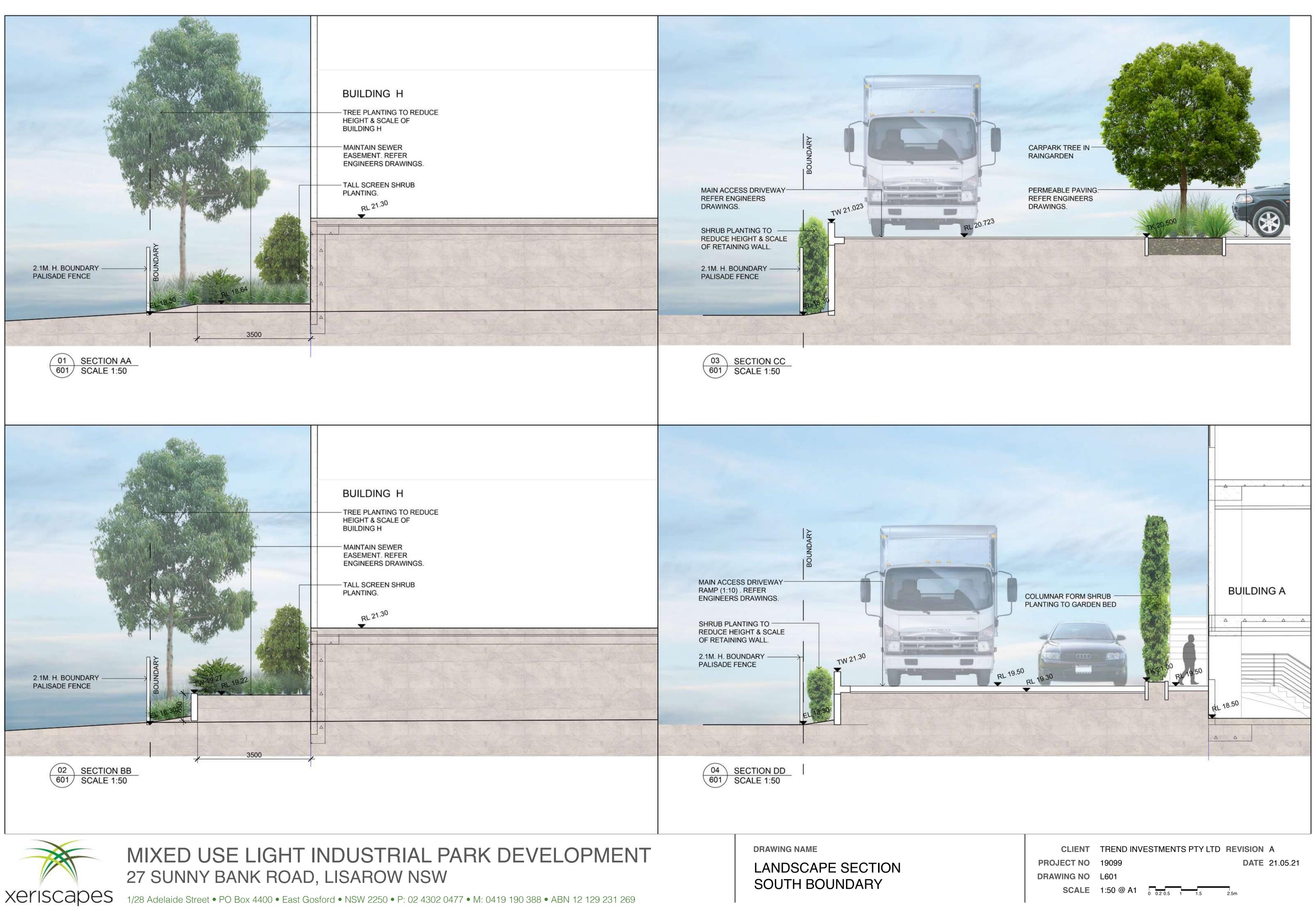


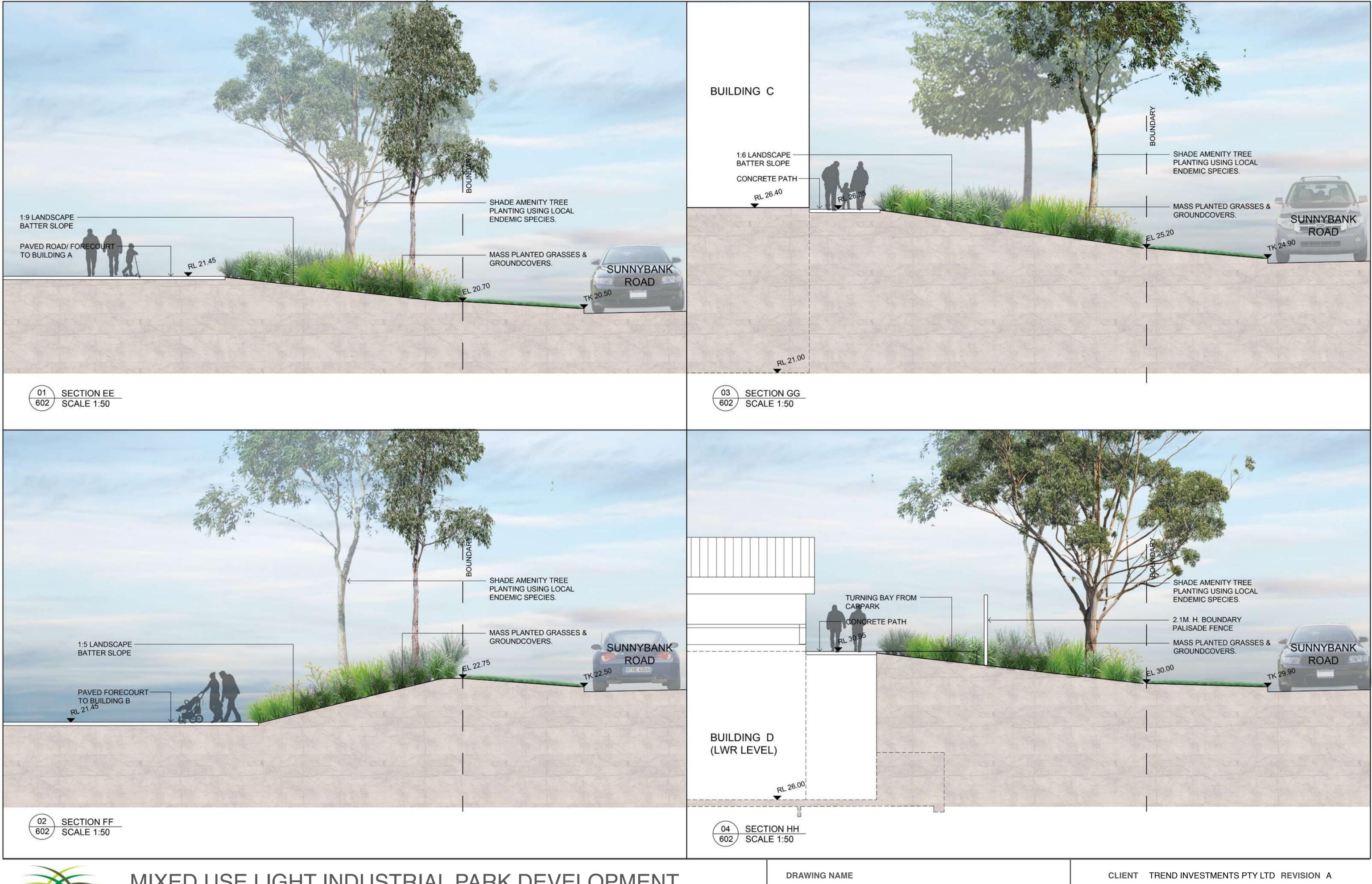
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DRAWING NAME

LANDSCAPE EAST ELEVATION SUNNY BANK ROAD

CLIENT TREND INVESTMENTS PTY LTD REVISION A **PROJECT NO** 19099 **DATE** 03.09.20 DRAWING NO L403 SCALE 1:250 @ A1 0 1 2 4 6 10m







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LANDSCAPE SECTION EASTERN BOUNDARY

PROJECT NO 19099 DRAWING NO L602

DATE 21.05.21

