ANGLICAN CARE RACF CAREY BAY

FEBRUARY 2020



LOCATION MAP



Drawing Schedule

Drawing Schedule			
Name	Drawing Number	Revision	
Cover Sheet	L000	D	
Tree Management Plan	L001	Α	
Tree Management Schedule	L002	Α	
Landscape Masterplan	L101	С	
Memory Unit Landscape Plan	L102	В	
Northern Courtyard Landscape Plan	L103	С	
Landscape Section & Precedent Images	L201	С	
Indicative Plant Schedule	L301	Α	

Site Calculations

Item	Area	Percentage	
Total Site	12639 m²		
Total Soft Landscaping	5816 m ²	46 %	

Council Guidelines

Lake Macquarie City Council

- Lake Macquarie City Council (LMCC) LEP 2014,
- Lake Macquarie City Council (LMCC) DCP 2014;
- Lake Macquarie City Council (LMCC) Landscape Design Guidelines

Site Description

The subject site is located at Lot 200, (DP731318) and the street address is 37 Laycock Street, Carey Bay NSW.

The existing Residential Aged Care Facility (RACF); owned by Anglican Care, occupies the NE portion of the site and is to be demolished as part of this proposal. The Independent Living Units (ILU) located in the SW portion of the site are to be retained as part of this proposal.

The existing topography of the site is relatively steep with a cross fall from the high point (RL 27.54) located in the Eastern corner of the site, to the approximate low point (RL 18.04), located in the northern corner of the site and has a fall of approximately 9.5 metres.

Local Context/Character

The existing vegetation character is predominantly mown grass and exotic garden beds. The existing trees at the entry to site will be removed to allow for the new road and carpark upgrades. Please refer to the Arboricultural report (by Arbor Ecological) for the assessment of all existing trees to be retained and removed.

The existing site is located in close proximity to Carey Bay Shopping Village, Catalina Bay and Carey Bay in Lake Macquarie.

Proposed Development:

The proposed development provides the opportunity to create an improved frontage to Laycock Street with a landscaped batter (Max 1:3) and a low retaining wall (Max 1m H.) to the north east corner of the site where grades are steeper. Proposed shrub planting in front of this retaining wall will assist in reducing the bulk and scale of the wall. Trees along this frontage have been strategically located to 'frame' views to nearby Lake Macquarie.

Along the NE boundary, existing trees have been retained to maintain this important ecological link corridor and to ensure the existing squirrel glider habitat is maintained. Nectar producing shrub planting have been implemented to the under storey canopy of this ecological corridor.

The development will include the following deep soil internal courtyards:

The Northern Courtyard will include garden beds and a raised planter with sensory plants and wheelchair accessibility. A suspended communal paved area (with OSD tank below) will include a shade structure, BBQ and alfresco furniture. This area is also a viewing platform with significant views to Lake Macquarie.

The Memory Unit Courtyard is located to the south and includes a serpentine path, shade structure, BBQ facilities, DDA compliant furniture, with passive exercise and memory equipment. The garden beds and raised planters are wheelchair accessible and encourage resident participation and engagement.

There is screen planting between the residents rooms and the common open space areas with a separate staff break out space, located adjacent to the staff rooms.

Additional shrub and tree planting is have been implemented along the western edge of the new driveway and at the base of the existing retaining wall to assist in screening and provide additional privacy for the adjacent ILU's.

Circulation, connectivity and materials & finishes selection; particularly in the common open space areas of this development have been considered and will include the following:

Circulation

- Establish a path hierarchy for main pedestrian access, egress and maintenance paths,
- Segregation of pedestrian paths from vehicular roads and driveways,
- Implementation of 1:14 ramps (with handrails) 1:20 ramps (no handrails) to AS1428.1 Access & Mobility, and
- Main pedestrian circulation path widths to be a minimum 1500mm width to allow mobile & less mobile residents to easily pass each other.

Connectivity

- Regular rest stops with bench seats (including arm rests), and
- Implementation of intersection nodes where paths intersect, and which may include way-finding signage, congregation nodes and seating.

Materials & Finishes

- Pre-cast unit paving not to be implemented on any common open space & public domain paths as can potentially cause trip hazards,
- Use of exposed aggregate concrete paving to assist in reducing slip hazards,
- Use of broom finished concrete paving to assist in reducing slip hazards, and
- Use of colour oxide concrete paving with luminance reflective values (LRV) to assist in reducing concrete glare.

Planting Design Strategy

The planting design strategy for this development proposal is to include some of the

- Tree planting within appropriate deep soil zones to reduce bulk & scale of the
- development and increase canopy cover of local area
- Evergreen tree planting to provide shade & amenity Deciduous tree Planting for solar access & seasonal change, and
- A broad sensory planting palette to include a variety of colour, texture, aroma & form.

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

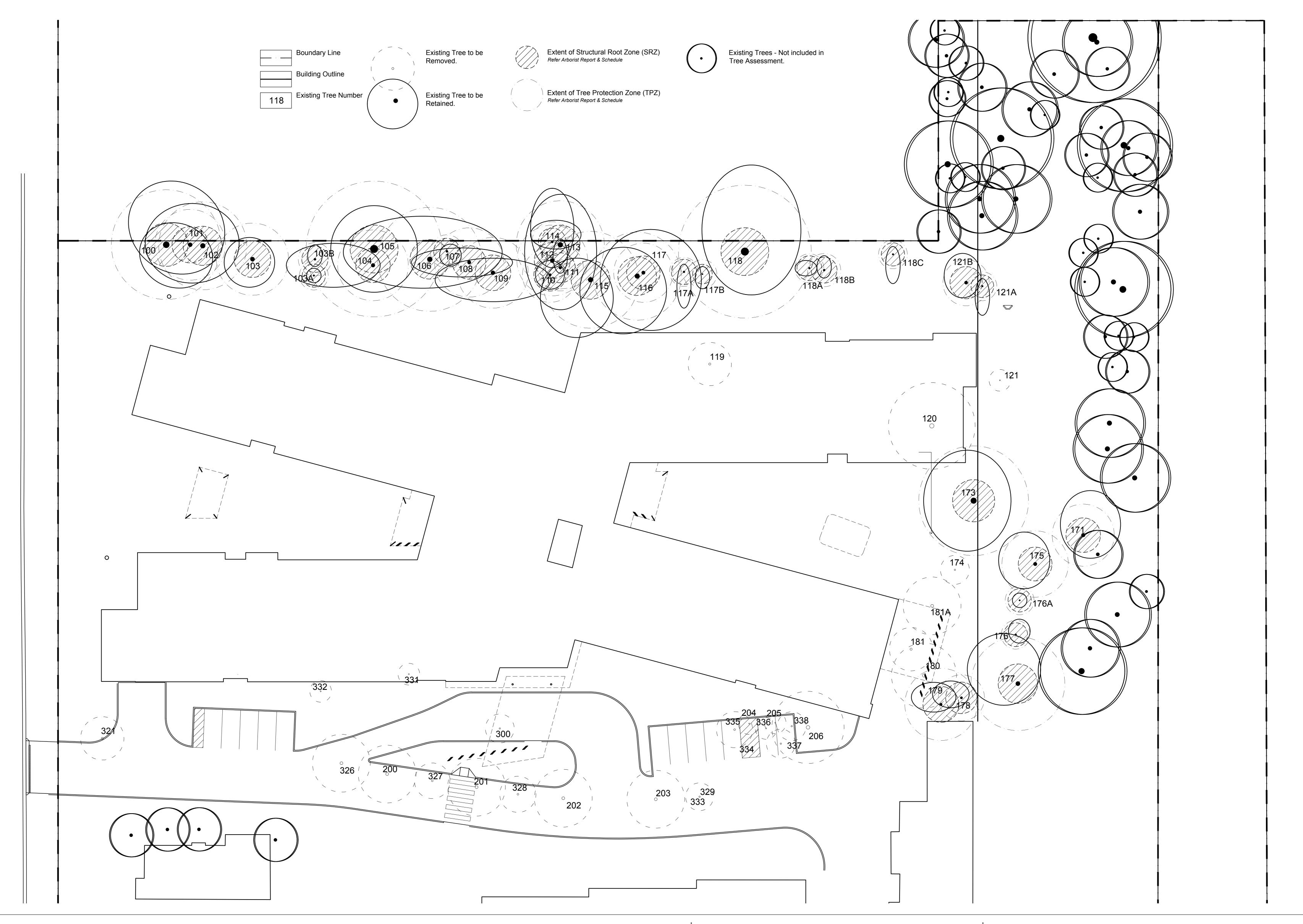
Avoid planting tree species that are prone to potential limb drop

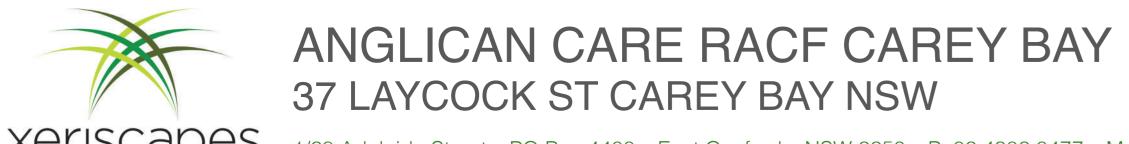
- Avoid planting species close to paths and hard paved areas that are known for excessive
- flower and foliage drop that may cause slip hazards
- Avoid planting species that are known for invasive root structure that may damage paths and hard paved areas, which may cause trip hazards, and
- Avoid planting species that are known to be toxic or may cause respiratory, allergy and/or
- skin 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 watering maintenance requirements. A proposed OSD tank within the central courtyard to store rainwater for landscape irrigation and use of predominantly low water use species (both native & exotic) have been grouped in regard to watering requirements and to reduce reliance on the use of potable water.

DRAWING NAME

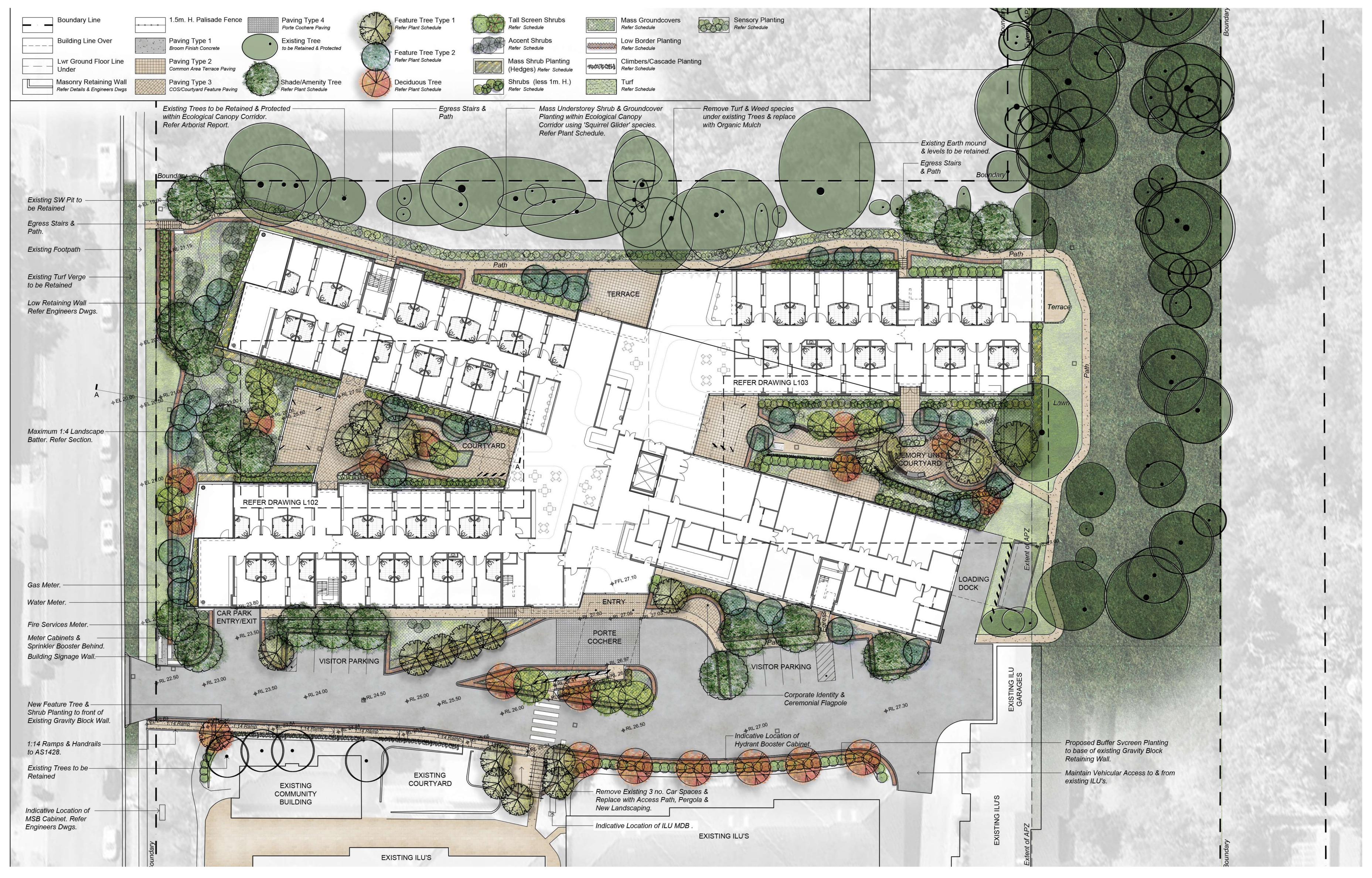




Tree #	Species (Botanical Name)	Common Name	Retain/ Remove	Canopy Spread(m) N,S,E,W	DGL (mm)	HGT (m)	TPZ (m)	SRZ (m)	Comments/ Condition	
100	Eucalyptus acmenoides	White Mahogany	Retain	9458	800	18	7.6	3.01	Good/Potential damage to TPZ roots	
101	Corymbia maculata	Spotted Gum	Retain	3637	520	14	4.9	2.51	Good/Potential damage to TPZ roots	
102	Corymbia maculata	Spotted Gum	Retain	6558	620	20	6.1	2.71	Good/Potential damage to TPZ roots	
103	Melaleuca bracteata	Revolution Green	Retain	3434	530	8	5	2.53	Good/Potential damage to TPZ root	
103A	Corymbia maculata	Spotted Gum	Retain	1111	180	5	2	1.61	Good/No Impacts Expected	
103B	Corymbia maculata	Spotted Gum	Retain	2111	240	7	2.3	1.82	Good/No Impacts Expected	
104	Eucalyptus punctata	Grey Gum	Remove	3 3 1 12	460	12	4.9	2.39	Fair/ Not Suitable to be Retained	
105	Corymbia maculata	Spotted Gum	Retain	6666	1010	25	9.4	3.32	Good/No Impacts Expected	
106	Eucalyptus punctata	Grey Gum	Retain	6 40 10 12	630	20	7.2	2.73	Good/No Impacts Expected	
107	Corymbia maculata	Spotted Gum	Retain	1221	240	10	2.3	1.82	Good/No Impacts Expected	
108	Eucalyptus punctata	Grey Gum	Retain	2268	430	20	4.8	2.32	Poor/Retain for Habitat	
109	Eucalyptus punctata	Grey Gum	Retain	2488	500	20	4.9	2.47	Good/No Impacts Expected	
110	Eucalyptus paniculata	Iron Bark	Retain	2222	390	20	3.8	2.23	Good/No Impacts Expected	
111	Eucalyptus paniculata	Iron Bark	Retain	4111	330	12	3.2	2.08	Good/No Impacts Expected	
112	Eucalyptus punctata	Grey Gum	Retain	10133	510	18	4.9	2.49	Fair/No Impacts Expected	
113	Corymbia maculata	Spotted Gum	Retain	7955	630	20	6.1	2.73	Fair/No Impacts Expected	
114	Alphitonia excels	Red Ash	Retain	3143	270	12	2.8	1.91	Good/No Impacts Expected	
115	Eucalyptus punctata	Grey Gum	Retain	3837	610	25	6.7	2.69	Good/No Impacts Expected	
116	Corymbia maculata	Spotted Gum	Retain	4848	600	25	6.1	2.67	Good/No Impacts Expected	
117	Eucalyptus punctata	Grey Gum	Retain	6881	430	12	4.1	2.32	Good/No Impacts Expected	
117A	Casuarina glauca	Swamp Oak	Retain	1511	220	7	2	1.75	Good/No Impacts Expected	
117B	Acacia binervia	Coast Myall	Retain	1211	120	5	2	1.36	Good/No Impacts Expected	
118	Eucalyptus punctata	Grey Gum	Retain	12686	1000	25	9.2	3.31	Good/No Impacts Expected	
118A	Eucalyptus spp.	Eucalyptus Tree	Retain	1112	210	7	2	1.72	Good/No Impacts Expected	
118B	Eucalyptus spp.	Eucalyptus Tree	Retain	2111	230	4	2.3	1.79	Good/No Impacts Expected	
118C	Eucalyptus spp.	Eucalyptus Tree	Retain	1411	180	5	2	1.61	Good/No Impacts Expected	
119	Callistemon viminalis	Weeping Bottlebrush	Remove	5555	538	10	5.3	2.55	Good/In Development Footprint	
119A	Sapium sebiferum	Chinese Tallow Tree	Remove	3333	350	5	2.6	2.13	Good/In Development Footprint	
120	Eucalyptus botryoides	Southern Mahogany	Remove	9679	560	18	6.6	2.59	Fair/In Development Footprint	
121	Melaleuca quinquenervia	Broad Leaved PaperBark	Remove	1111	280	10	2.4	1.94	Good/No Impacts Expected	

Tree #	Species (Botanical Name)	Common Name	Retain/ Remove	Canopy Spread(m) N.S.E.W	DGL (mm)	HGT (m)	TPZ (m)	SRZ (m)	Comments/ Condition
121A	Casuarina glauca	Swamp Oak	Retain	1411	170	4	2	1.57	Good/No Impacts Expected
121B	Casuarina glauca	Swamp Oak	Retain	4223	390	6	32	2.23	Good/No Impacts Expected
171	Corymbia maculata	Spotted Gum	Retain	6353	460	18	4.3	2.39	Good/No Impacts Expected
173	Eucalyptus scoparia	Wallangarra White Gum	Retain	7757	740	20	7.6	2.92	Fair/Potential damage to TPZ roots
174	Eucalyptus scoparia	Wallangarra White Gum	Remove	1111	300	8	3	2	Poor/ Not Suitable for Retention
175	Eucalyptus punctata	Grey Gum	Retain	4325	440	16	4.6	2.34	Good/No Impacts Expected
176	Corymbia maculata	Spotted Gum	Retain	2121	190	10	2	1.65	Good/No Impacts Expected
176A	Corymbia maculata	Spotted Gum	Retain	1111	140	10	2	1.61	Good/No Impacts Expected
177	Eucalyptus robusta	Swamp Oak	Retain	7337	540	18	6.5	2.73	Good/No Impacts Expected
178	Melaleuca quinquenervia	Broad Leaved PaperBark	Retain	2114	270	12	3.2	2.18	Good/No Impacts Expected
179	Melaleuca quinquenervia	Broad Leaved PaperBark	Retain	3124	310/290	12	5	2.49	Fair/No Impacts Expected
180	Melaleuca quinquenervia	Broad Leaved PaperBark	Remove	2224	850	16	8.6	3.09	Good/Potential damage to TPZ roots
181	Melaleuca quinquenervia	Broad Leaved PaperBark	Remove	4124	560	10	5.4	2.59	Good/In Development Footprint
181A	Jacaranda mimosifolia	Jacaranda	Remove	4143	230	5	2.6	1.79	Good/No Impacts Expected
200	Liquidambar styraciflua	Liquidamber	Remove	3223	410	8	3.8	2.28	Good/In Development Footprint
201	Liquidambar styraciflua	Liquidamber	Remove	4444	540	12	5	2.55	Good/In Development Footprint
202	Liquidambar styraciflua	Liquidamber	Remove	3333	400	10	3.6	2.25	Good/In Development Footprint
203	Liquidambar styraciflua	Liquidamber	Remove	3432	440	12	4.2	2.34	Good/In Development Footprint
204	Syagrus romanzoffianum	Cocos Palm	Remove	1111	330	10	2	2	Good/Potential damage to TPZ roots
205	Syagrus romanzoffianum	Cocos Palm	Remove	1111	320	12	2	2	Good/Potential damage to TPZ roots
206	Liquidambar styraciflua	Liquidamber	Remove	3553	440	8	4.3	2.34	Good/Potential damage to TPZ roots
321	Syzgium spp.	Lillypilly	Remove	3344	380	6	3.6	2.2	Good/In Development Footprint
326	Harpephllum caffrum	Kaffir Plum	Remove	4233	400	7	3.8	2.25	Good/In Development Footprint
327	Harpephllum caffrum	Kaffir Plum	Remove	1111	290	5	2.5	1.97	Good/In Development Footprint
328	Harpephllum caffrum	Kaffir Plum	Remove	2222	310		3.8	2.02	Good/In Development Footprint
329	Harpephllum caffrum	Kaffir Plum	Remove	2231	340	5	2.7	2.1	Good/In Development Footprint
330	Callistemon viminalis	Weeping Bottlebrush	Remove	2234	480	9	4.8	2.43	Good/In Development Footprint
331	Hymenosporum flavum	Native Frangipani	Remove	2222	180	6	2	1.61	Good/Potential damage to TPZ roots
332	Hymenosporum flavum	Native Frangipani	Remove	3122	250	6	2.1	1.84	Good/Potential damage to TPZ roots
334	Melaleuca linariifolia	Flax leafed Paper Bark	Remove	2214	300	5	6.9	2	Good/In Development Footprint
335	Melaleuca bracteata	Revolution Green	Remove	4334	370	7	3.6	2.18	Good/Potential damage to TPZ roots
336	Callistemon viminalis	Weeping Bottlebrush	Remove	2132	200	5	2	1.68	Good/In Development Footprint

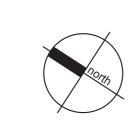
SCALE NA





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LANDSCADE MASTEDDIAN



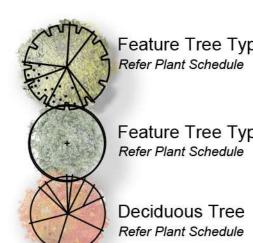
CLIENT ANGLICAN CARE
PROJECT NO 19087

DRAWING NO L101

SCALE 1:200 @ B1



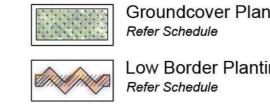
Paving Type 5
Wetpour Rubber Softfall





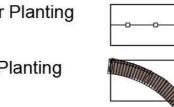


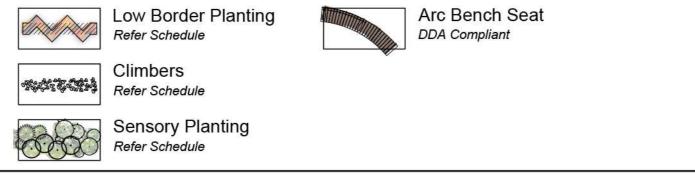
Shrubs (less 1m. H.)
Refer Schedule

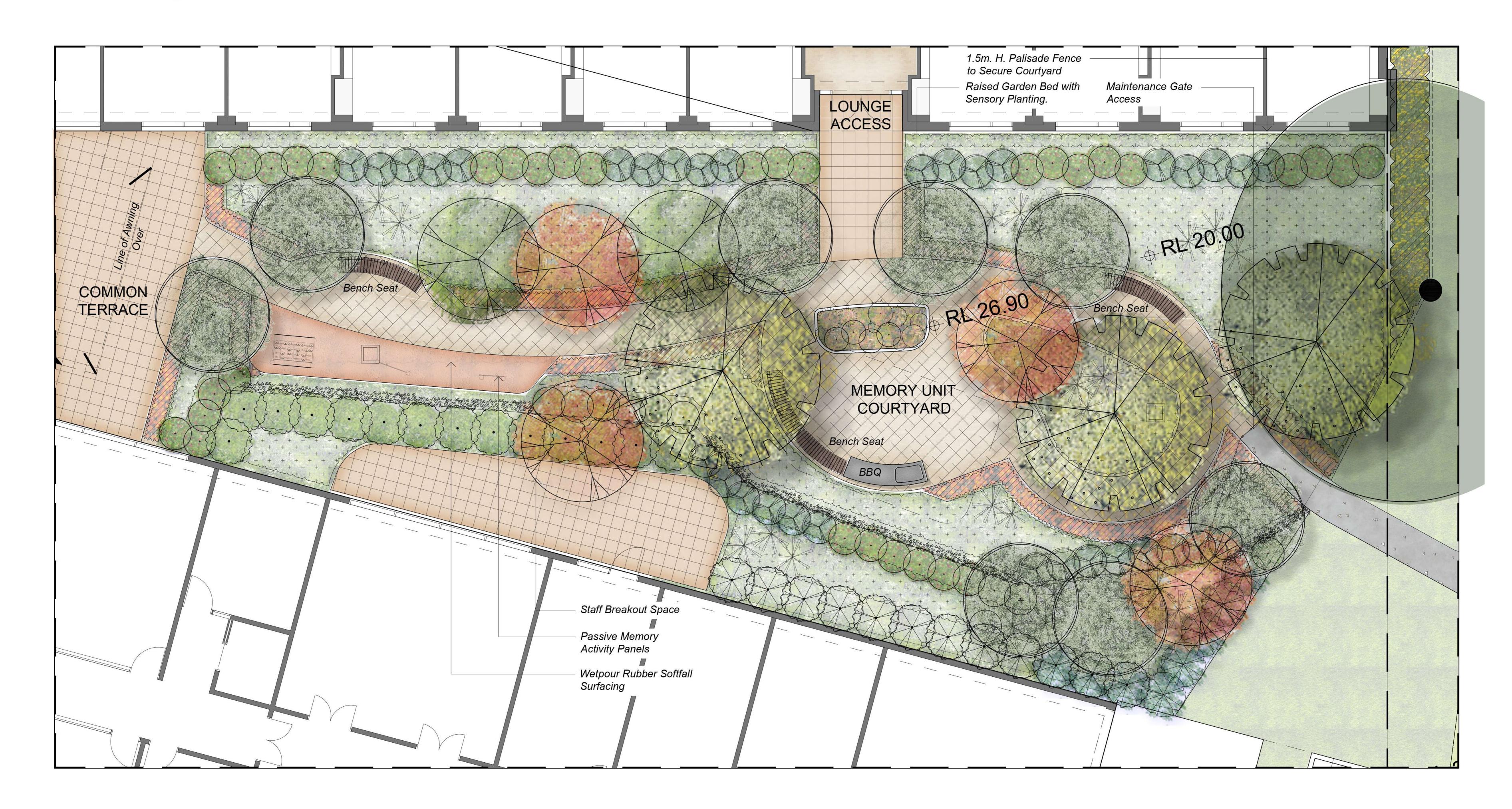




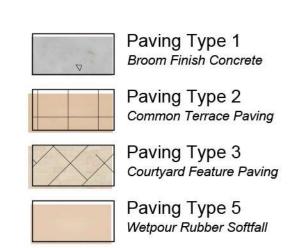
1.5m H. Palisade Fence

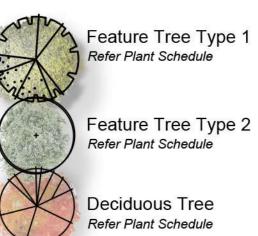


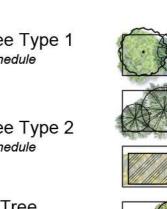




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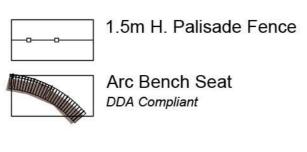


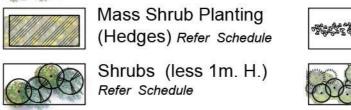






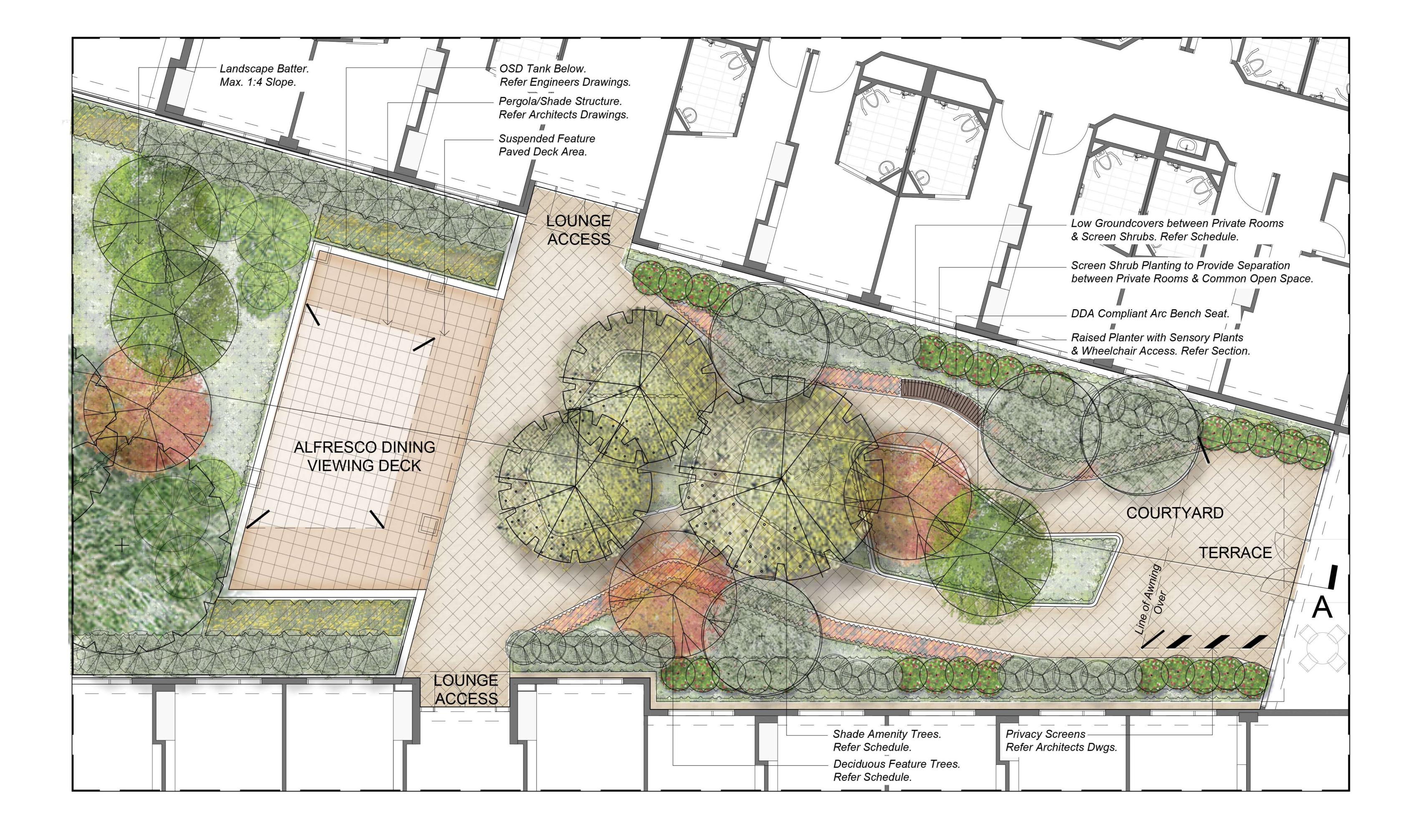




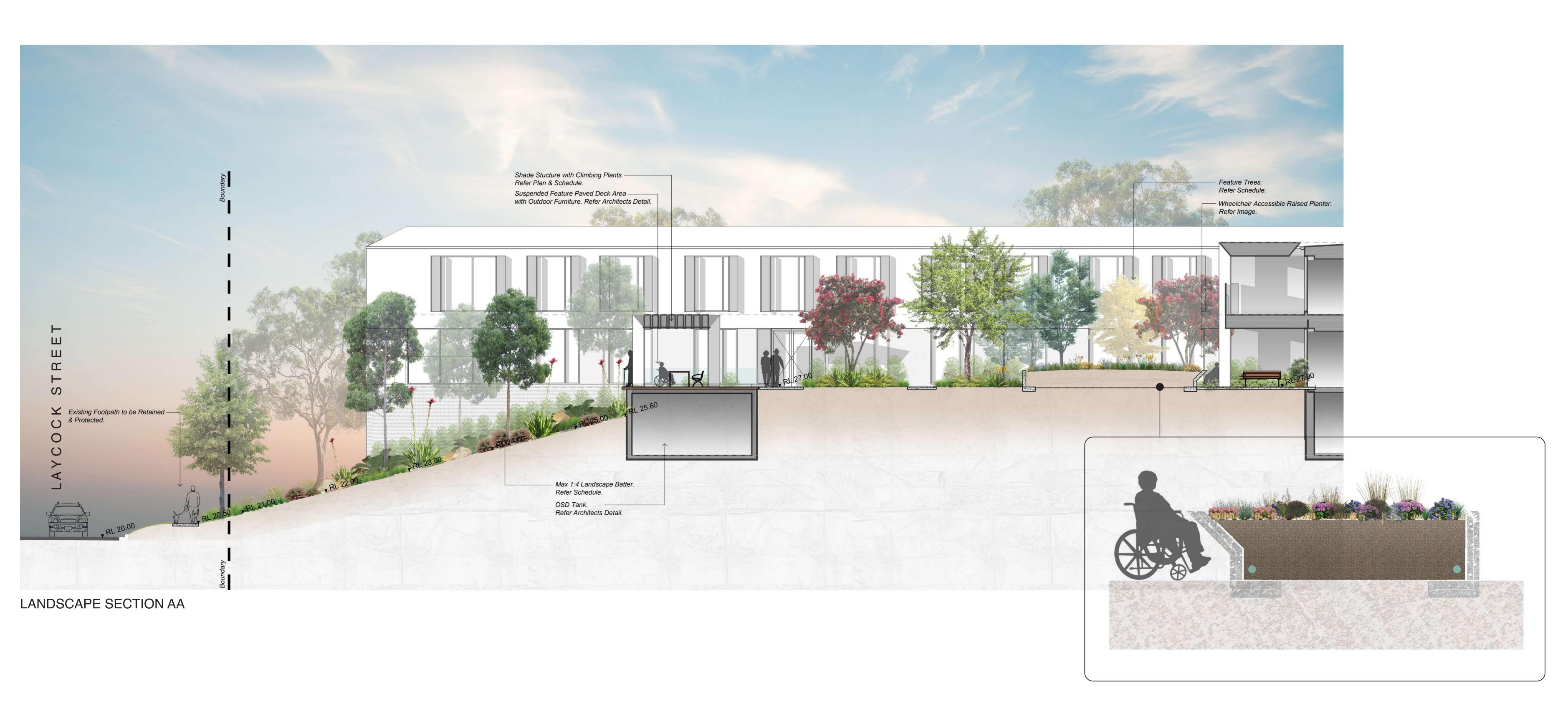


Climbers
Refer Schedule Sensory Planting
Refer Schedule





ANGLICAN CARE RACF CAREY BAY











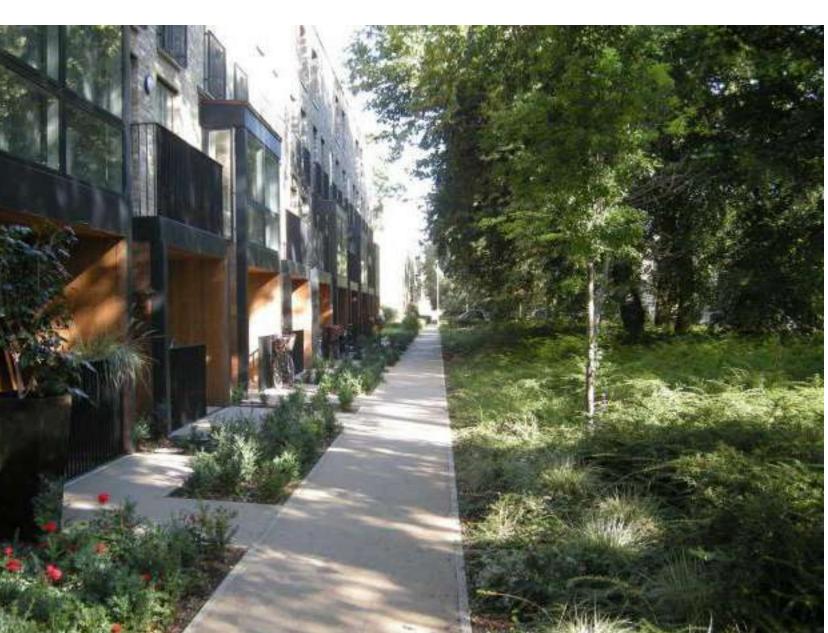


Image	Botanical Name	Common Name	Mature Height	Mature Spread		Comments	
Shade Am	nenity Trees		(m.)	(m.)			
	Brachychiton acerifolius Eucalyptus captilletata	Illawarra Flame Tree Bastard Mahogany	15 14	5 6	75L 75L	Stakes and ties Squirrel Glider Habitat	
01	Waterhousia 'Sweeper'	Weeping Lilly Pilly	10	7	75L	Stakes and ties	
	Cupaniopsis anacardioides Waterhousia floribunda 'Sweeper'	Tuckeroo Weeping Lilly Pilly	8 10	7 7	75L 75L	Stakes and ties Stakes and ties	
Feature Tr	ree 1						
	Alloxylon flammeum Backhousia citriodora	Tree Waratah Lemon Myrtle	15 5-10	6-8 2-5	75L 75L	Stakes and ties Stakes and ties	
	Elaeocarpus obovatus	Hard Quandong	12	5	75L	Squirrel Glider Habitat	
02	Elaeocarpus reticulatus	Blueberry Ash	10	5	45L	Stakes and ties	
Feature Tr		Description Over	0	4.0	451	Otalian and the	
	Corymbia ficifolia 'Orange Splendour' Leptospermum trinervium	Dwarf Flowering Gum Paperbark Tea-Tree	6 2.5	4-6 2	45L 300mm	Stakes and ties Squirrel Glider Habitat	
03	Persoonia levis Tristaniopsis 'Luscious'	Broad-leaved Geebung Luscious Water Gum	5 8	5 5	25L 75L	Squirrel Glider Habitat Stakes and ties	
	•	Luscious Water Guill	O	5	7 JL	Stakes and ties	
Deciduous	s Irees Acer x freemanii 'Jeffersred'	Autumn Blaze	10	8	75L	Stakes and ties	
	Fraxinus angustifolia 'Raywood'	Claret Ash	10	8	75L	Stakes and ties	
04	Lagerstroemia indica x L. fauriei Plumeria acutifolia 'Rubra'	Crepe Myrtle Frangipani	5 7	3-4 3-4	75L 75L	Stakes and ties Stakes and ties	
	Pyrus calleryana 'Capital'	Capital Pear	10	3	75L	Stakes and ties	
Tall Scree	n Shrubs > 1.5m						
05	Banksia robur	Swamp Banksia	2	2	300mm	Consistent Olista at 1 1 2 2	
06	Grevillea banksii 'Alba' Hakea bakeriana	White Banks Grevillea Hakea	2.5 2	2 1.5	500mm 300mm	Squirrel Glider Habitat Squirrel Glider Habitat	
	Leptospermum polygalifolium	Tantoon	2	1.5	300mm	Squirrel Glider Habitat	
07	Syzigium australe 'Pinnacle'	Pinnacle Narrow Lilly Pilly	7.5	1.5	300mm		
Shrubs <	1.5m Acacia terminalis	Sunshine Wattle	1	1	200mm	Squirrel Glider Habitat	
	Banksia oblongifolia	Fern-leaved Banksia	1	1		Squirrel Glider Habitat	
08	Callistemon 'Better John' Grevillea lanigera	Better John Bottlebrush Soft Leaved Grevillea	1.2 1	0.9	200mm 200mm		
Accent Sh		Mar to a 12	4.5	4	000		
09 10	Beschorneria yuccoides Lambertia formosa	Mexican Lily Mountain Devil	1.5 1.5	1 1.5	200mm 300mm	Squirrel Glider Habitat	
11	Leucospermum cordifolium 'Scarlet Ribbon'	Scarlet Ribbon	2	1.5	300mm		
Maga Chu	.h Dienting						
12 13	ub Planting Raphiolepis indica 'Ápple Blossom' Westringia fruiticosa 'Zena'	Apple Blossom Hawthorn Westringia 'Zena'	1 1.2	1 1.2	200mm 200mm		
Mass Plan	nted Groundcovers						
14	Alternanthera dentata 'Little Ruby' Convolvulus cneorum	Littly Ruby	0.5	0.5	140mm		
15	Dianella caerulea 'Little Jess'	Silver Bush Little Jess Flax Lily	0.5 0.4	1 0.4	140mm 140mm		
16	Dichondra repens	Kidney Weed	0.1	1.5	100mm		
17	Liriope muscari 'Isabella' Myoporum parvifolum Ýareena'	Isabella Fine Leaf Liriope Yareena Creeping Boobialla	0.4 0.1	0.5	140mm 140mm		
18	Neomarica gracilis	Walking Iris	0.5	0.5	140mm		
19	Poa labillardieri 'Kingsdale'	Blue Tussock Grass Lambs Ears	0.45 0.5	0.45 0.5	140mm 140mm		
20	Stachys byzantina Westringia 'Mundi'	Westringia 'Mundi'	0.6	1.5	140mm		
Low Borde	er Planting						
	Carex albula 'Frosted Curls' Chrysocephalum apiculatum 'Desert	New Zealand Hair Sedge	0.6	0.6	140mm		
21	Flame'	Yellow Buttons	0.5	0.3	140mm		
22	Lomandra confertifolia 'Wingarra' Viola hederacea	Lomandra Wingarra Native Violet	0.4 0.1	0.6 0.3	140mm 140mm		
Cascading	g Planting						
•	Casuarina glauca 'Cousin It'	Cousin It	0.3	1	140mm		
	Hardenbergia violacea 'Meema' Rosmarinus officinalis 'Blue Lagoon'	Meema Snake Vine Blue Lagoon Rosemary	0.5 0.3	2	140mm 140mm		
Shade Tol	erant Planting						
23	Asplenium australasicum	Birds Nest Fern	1	1	140mm		
	Blechnum nudum Macrozamia communis	Fishbone Water Fern Burrawang	0.7	0.5 1.5	140mm 140mm		
24	Philodendron 'Xanadu'	Xanadu Dwarf Philodendron	0.8	0.8	140mm		
	Pteris tremula	Tender Brake	1	0.8	140mm		
Climbers	Classes and all-	Vancaus - VIII	0		4.40		
25	Cissus antartica Pandorea jasminoides	Kangaroo Vine Bower of Beauty	6 5		140mm 140mm		
	Pyrostegia venusta	Orange Trumpet Vine	10		140mm		
Flowering	Perennials & Sensory Plants						
	Aster sp. Impatiens balsamina	Daisy Busy Lizzie	0.4 0.5	0.3	140mm 140mm		
	Salvia officinalis Varieties	Common Sage Varieties	0.3	0.3	140mm		
	Lavender officinialis	English Lavender	1.2	1	140mm 140mm		
	Melissa officinalis Pelargonium x domesticum	Lemon Balm Regal Geranium	0.6 1	0.6	140mm 140mm		
	Stachys byzantina	Lambs Ears	0.3	0.9	140mm		



ANGLICAN CARE RACF CAREY BAY 37 LAYCOCK ST CAREY BAY NSW

INDICATIVE PLANT SCHEDULE

CLIENT ANGLICAN CARE
PROJECT NO 19087
DRAWING NO L301

SCALE NA

REVISION A

DATE 21.02.20